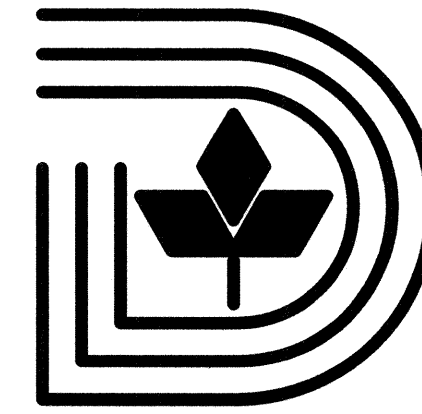


WATER AND WASTEWATER MAIN REPLACEMENTS AT VARIOUS LOCATIONS

SCHEDULE A

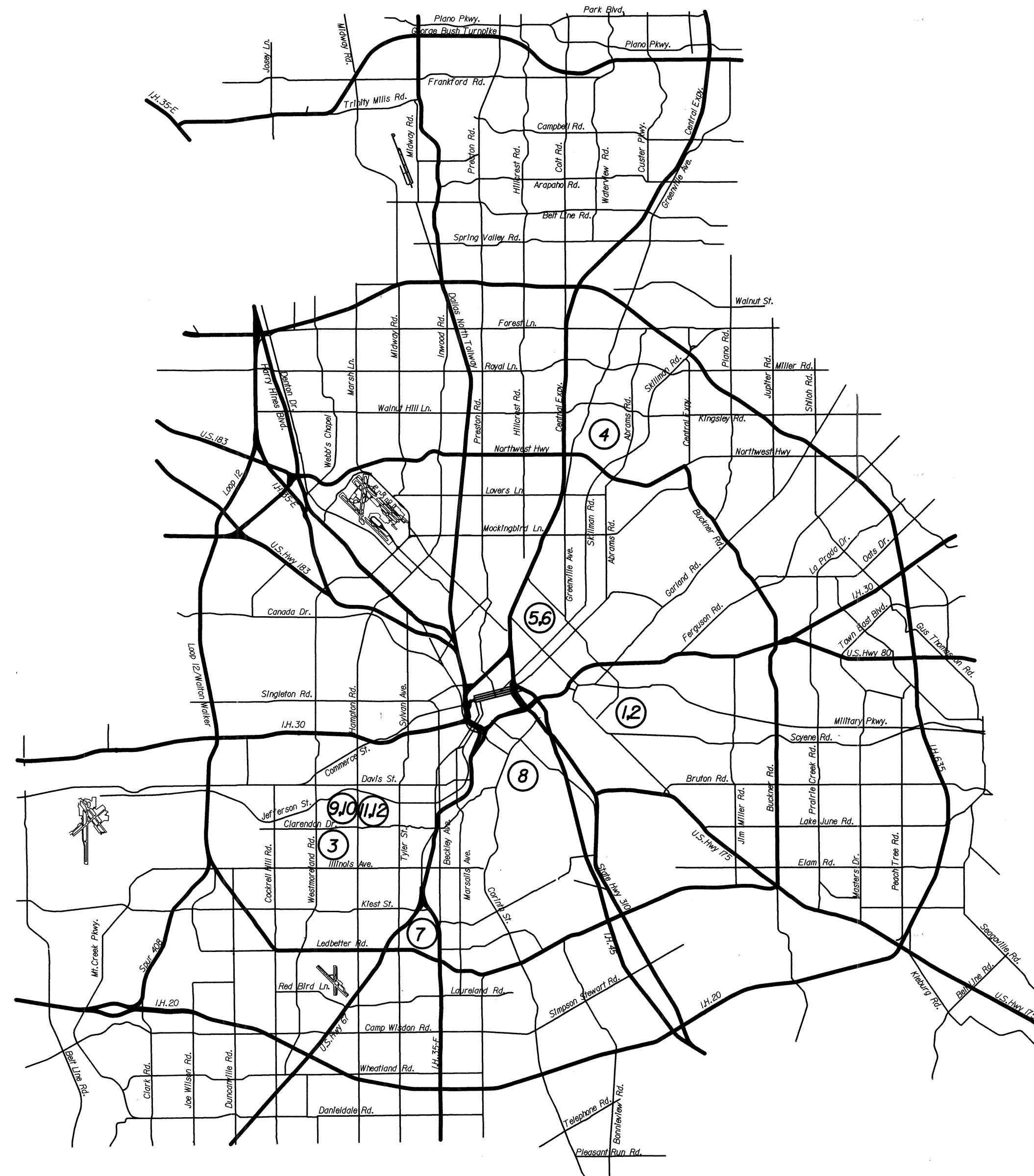
WATER & WASTEWATER SHEET INDEX

SEG.	PID	LOCATION	DESIGN SHEET
1.	3173	Dallas St	41Q-327 Sh.10
2.	6042	Alley Btwn JB Jackson Jr Blvd & S Trunk Ave	41Q-327 Sh.8-9
3.	3286	Pierce St	41Q-0336 Sh.004-007
4.	6008	Summer Creek Circle	41Q-1770 Sh.679
5.	6045	Munger Ave	41Q-1967 Sh.36-37
6.	6046	Annex Ave	41Q-1967 Sh.35-36
7.	6331	R L Thornton Rd & Ann Arbor Dr	41Q-1890 Sh.128
8.	3240	Avenue H / Childs St	41Q-0508 Sh.008-009
9.	4468	Ravinia Dr	41Q-889 Sh.2-4
10.	2046	Jefferson Blvd	41Q-889 Sh.5-8,9-12
11.	5680	Easement East of Cliffdale Ave	41Q-889 Sh. 13
12.	5681	W 9th St	41Q-889 Sh. 13 14



Dallas Water Utilities City Of Dallas, Texas

Contract No. : 21-341/342
November 2021



GENERAL

- All work shall be done in accordance with the North Central Texas Council Of Governments (NCTCOG) Standard Specifications for Public Works Construction (Version 4) and Dallas Water Utilities Addendum (Oct.1,2011) to these specifications.
- Reference to standard drawings shall mean those shown in the DWU Standard Drawings for Water & Wastewater Construction (Oct.2016).
- All items of work required to complete the work as shown or implied by the plans and as specified in the contract documents which are not listed as a pay item in the proposal shall be considered subsidiary.
- The location, elevations and dimensions of existing utilities shown on the plans as obtained from The City of Dallas and utility company records, are considered approximate. The Engineer does not certify that all utilities are shown. The Contractor shall verify exact locations, sizes and depths of existing utilities before beginning construction (including ordering pre-cast manholes and concrete pipe if applicable). NO SEPARATE PAY ITEM.
- The Contractor shall contact Texas Excavation Safety System (800-DIG-TESS; 800-344-8377) and other utility companies 48 hours prior to locating existing utilities and/or construction activities.
- The Contractor shall preserve and protect all existing utilities at all times during construction. Any damage to utilities resulting from the Contractor's operation shall be restored at his expense.
- The Contractor shall support telephone conduits, storm drains, water and wastewater mains where they cross under said utilities. NO SEPARATE PAY ITEM.
- Power poles may have to be braced at the Contractor's expense.
- No machinery, construction access or storage shall be allowed on park property beyond the limits of the temporary workspace as defined by the City of Dallas Project Manager or his/her representatives.

TRAFFIC CONTROL

- The Contractor shall develop a traffic control plan in accordance with the City of Dallas Traffic Barricade Manual, Latest Edition and the TxDOT Texas Manual On Uniform Traffic Control Devices (TMUTCD), Latest Version. NO SEPARATE PAY ITEM.
- The diversion of pedestrians and vehicles during the progress of the work shall be in a manner satisfactory to the City of Dallas Project Manager.
- The Contractor shall coordinate all traffic variances with Traffic Safety Coordinators at 670-5896 or 683-5189, City of Dallas Public Works & Transportation.
- Two-way traffic shall be maintained at all times and flagmen should be used to maintain two-way traffic as necessary.
- All barricades, warning signs and traffic control devices shall conform to the City of Dallas standards. NO SEPARATE PAY ITEM.
- When closing side streets, two working days notification is required for Fire, Police, Streets and Sanitation Departments.
- Contractor shall maintain access to private driveways at all times during construction. NO SEPARATE PAY ITEM.
- Vehicle ingress and egress (entrance and exit) to a business property shall be maintained at all time. If not, specific signs along with business name and direction arrows shall be used for any temporary access locations. Additional signs may be necessary if there is a detour. NO SEPARATE PAY ITEM.

PAVEMENT REPLACEMENT

- Sawcut, remove and replace pavements, sidewalks, curbs and gutters shall conform to City of Dallas Public Works & Transportation, Pavement Cuts & Repair Standards Manual, Latest Edition.
- All disturbed pavement markings including, but not limited to, striping, traffic buttons and crosswalks shall be restored to the same or improved condition as per City of Dallas Specifications For Public Works Construction, Standard Construction Details and all addenda thereto. NO SEPARATE PAY ITEM.

TREES AND LANDSCAPING

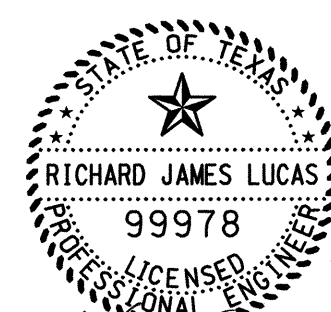
- Contractor shall not damage or remove any trees or landscaping unless otherwise authorized by the City of Dallas Forester. Any trees or landscaping that are damaged or removed during the construction shall be replaced by the contractor at his expense.

WATER MAIN AND APPURTENANCES

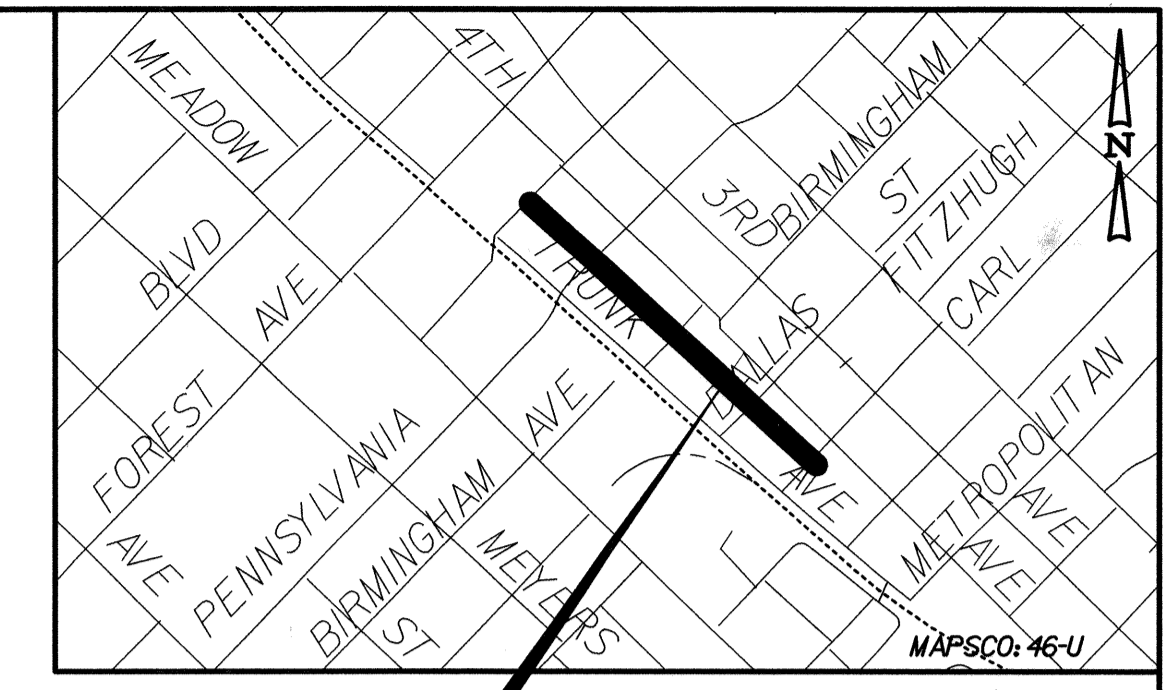
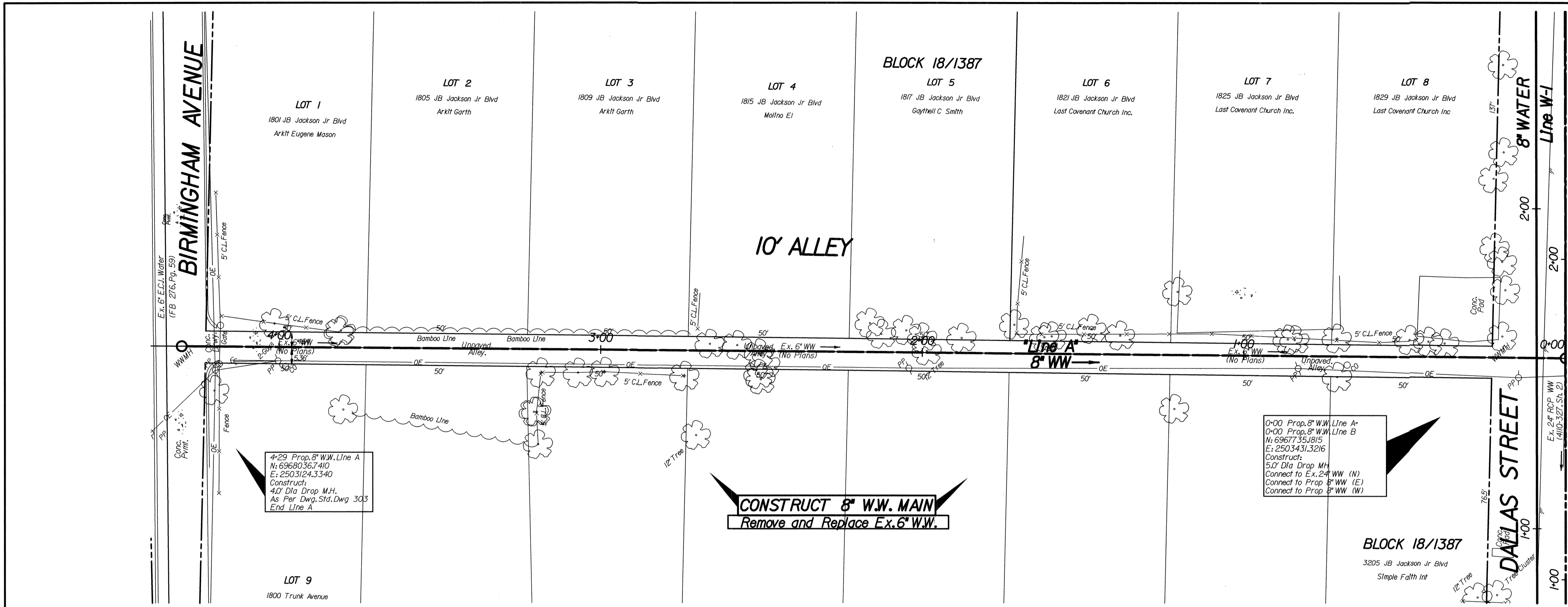
- All 6", 8" and 12" water mains shall be PVC C900 (DR-14) water pipe, with Class "C" embedment, except as noted. All fittings and fire hydrant bases shall be encased with polyethylene wrap.
- All water mains with no profiles shall have a minimum cover of four (4) feet below street grade in an improved street and five (5) feet of cover in an unimproved street or alley.
- Compact fittings are not authorized for this project. All ductile iron pipe, fittings and fire hydrant bases shall be poly-wrapped.
- All bands, tees, fire hydrants and plugs are to be restrained type fittings and to be blocked with Class "B" Concrete as per DWU Standard Drawings *229-234, in addition to restrained joints.
- If required by the City of Dallas Project Manager or his/her representative, the Contractor shall install temporary water lines on both sides of the street until the new water main has been completed, tested, approved, and accepted by DWU. NO SEPARATE PAY ITEM.
- If no temporary mains are required by the City of Dallas Project Manager or his/her representative, then the existing water mains are to be in service with the fire hydrants until the new water main has been tested, approved and accepted by DWU. NO SEPARATE PAY ITEM.
- The Contractor will ensure that fire hydrants are accessible to fire trucks at all times. NO SEPARATE PAY ITEM.
- The Contractor shall sequence his construction such that no more than one fire hydrant is out of service at any given time.
- All fire hydrants shall be installed as per DWU Standard Drawing *224. Existing fire hydrants on killed water lines are to be removed and delivered to DWU Distribution Division at 4120 Southside Street Dallas, Texas. If required by the City of Dallas Project Manager or his/her representative, otherwise they become the property of the Contractor.
- Backfill made on break repairs to existing water mains may have been made with crushed rock. This could present a cave-in danger to a new ditch, therefore, precautions should be taken by the Contractor. NO SEPARATE PAY ITEM.
- Abandon all water valves on existing mains being killed as per DWU Standard Drawing *219. NO SEPARATE PAY ITEM.
- The Contractor shall coordinate all water main ties-ins with the City of Dallas Inspectors or his/her representatives.
- The Contractor shall verify the location and number of all existing active water services and construct new services up to the meter prior to killing existing main.
- Water services greater than 30 feet shall be a minimum of one (1) inch in diameter.

WASTEWATER MAIN AND APPURTENANCES

- The Contractor shall maintain existing wastewater flow at all times. NO SEPARATE PAY ITEM.
- Abandon all manholes on abandoned wastewater mains.
- The Contractor shall verify the location of all wastewater laterals and construct new laterals from the wastewater main to the property line with cleanouts and reconnect to the existing laterals. Dye testing may be required at no additional cost to the owner.
- Prior to reconnection of the wastewater laterals, the Contractor shall verify whether the existing lateral is active or inactive. The Contractor is required, as a minimum, to include TV, surveying and perform dye testing. All laterals determined to be inactive shall not be reconnected. The City of Dallas Project Manager or his/her representative shall approve all laterals targeted for reconnection. NO SEPARATE PAY ITEM.
- The backfill around manholes located in existing or new pavement shall be flowable backfill as per items 504.6.6 and 504.2.3.4 of the NCTCOG Standard Specifications.

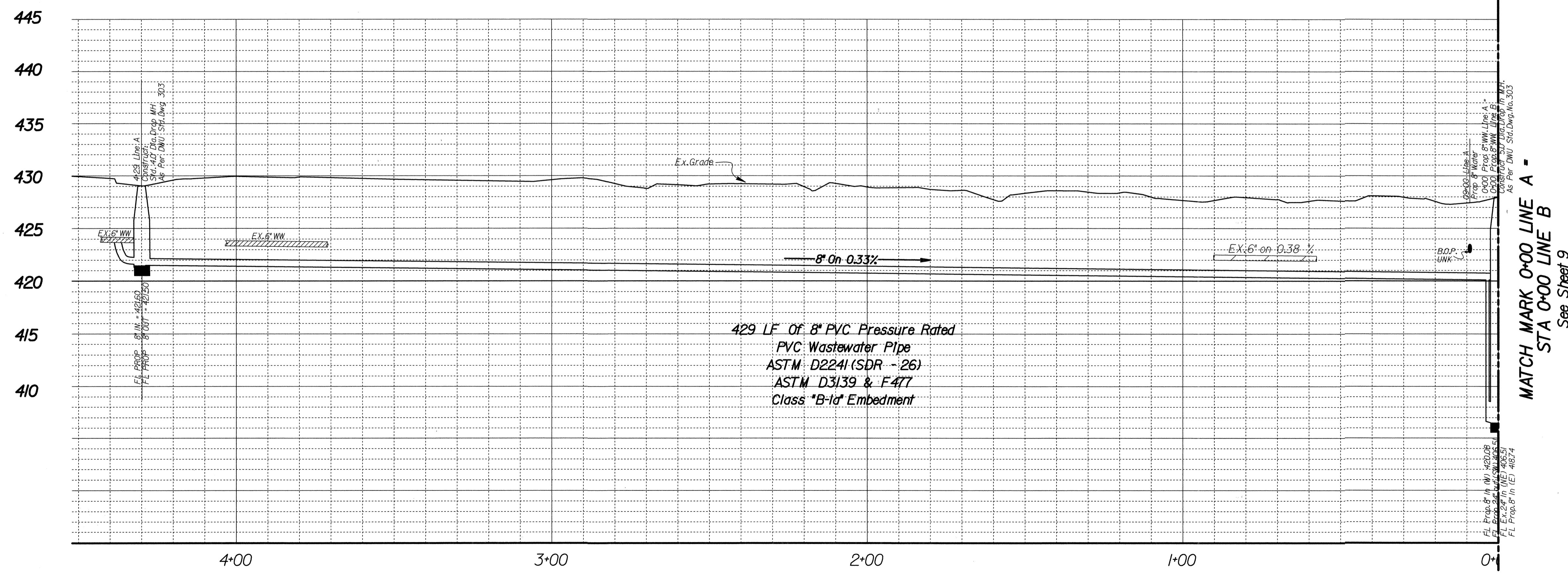


Richard James Lucas
Dec. 8, 2021



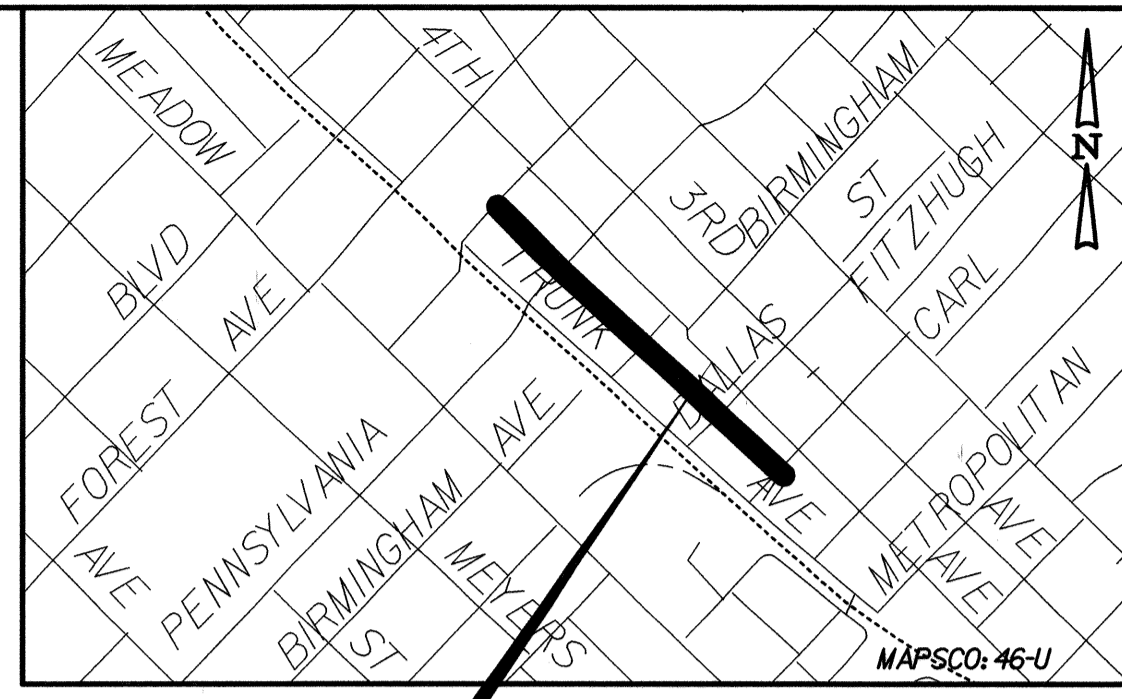
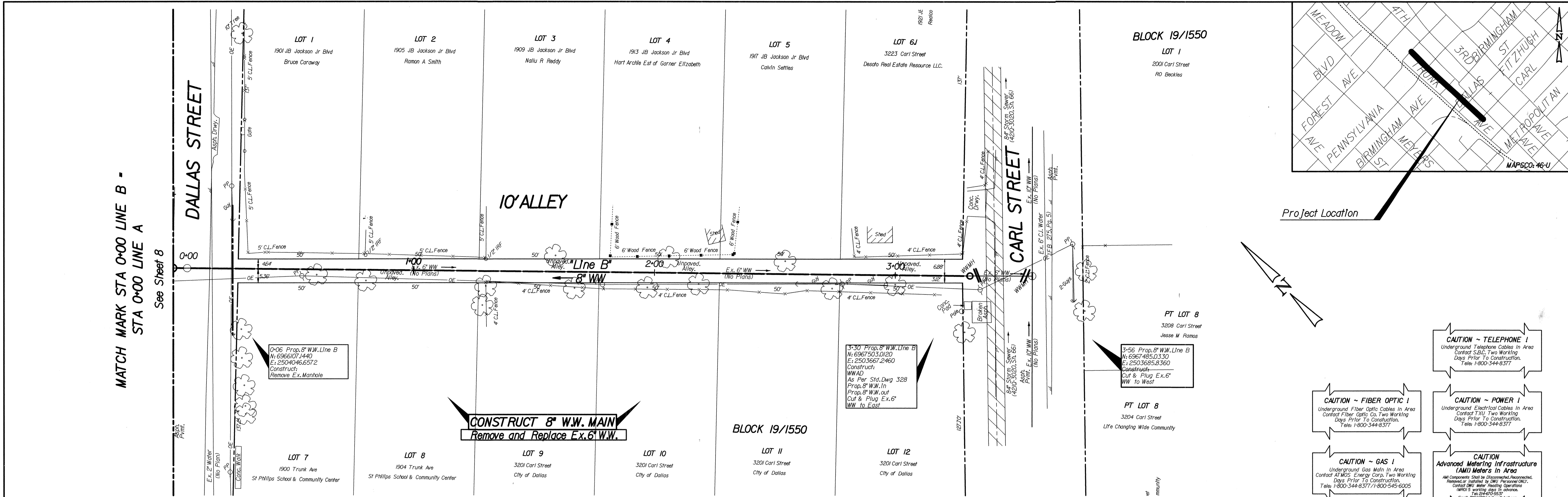
Project Location

- CAUTION - TELEPHONE !**
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - FIBER OPTIC !**
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - POWER !**
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - GAS !**
Underground Gas Main In Area
Contact AT&T Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005
- CAUTION**
Advanced Metering Infrastructure
(AMI) Meters In Area
All Components Shall be Disconnected, Reconnected,
Repaired or Replaced by AMI Personnel Only.
Contact DNU Meter Reading Operations
6602 S. Westing House Dr. Irving, TX
Tel: 972-475-5537
Email: dnu@dmu.dallaswater.com



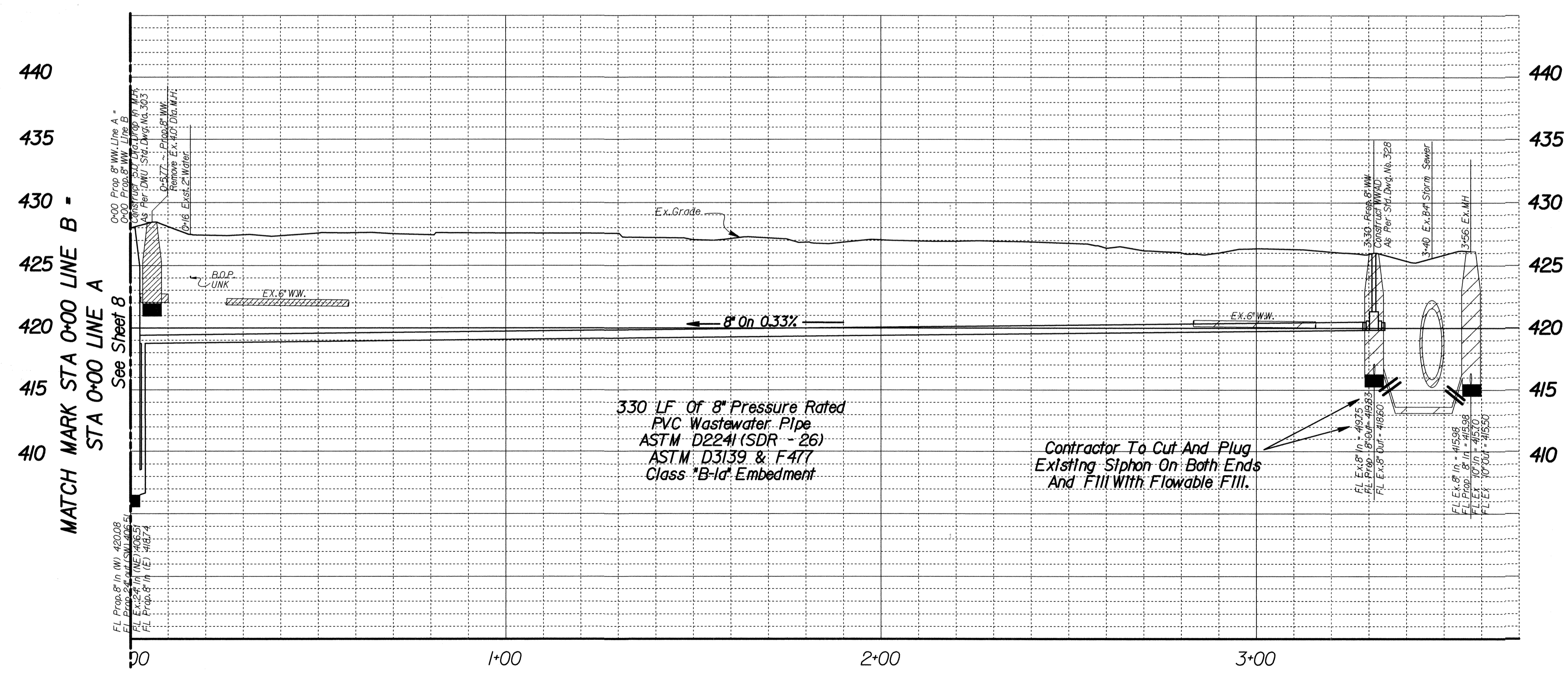
MATCH MARK 0+00 LINE A
STA 0+00 LINE B
See Sheet 9

REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
COD BENCHMARK *1 A SQUARE CUT IS FOUND ON THE CENTER OF RADIUS OF CONCRETE CURB AT THE SOUTHEAST CORNER OF THE INTERSECTION OF JEFFERIES STREET AND PENNSYLVANIA AVENUE. ELEV= 434.56'					
COD BENCHMARK *2 STD.WBDM IS FOUND ON THE CENTER OF RADIUS ON CONCRETE CURB AT THE SOUTHEAST CORNER OF THE INTERSECTION OF AL LIPSCOMB WAY AND ATLANTA STREET. ELEV= 449.27'					
Point	Northing	Easting	Elev.	Description	
15	696793810.40	25032917.220	430.09	X CUT	
6	6967870.3800	2503256.3670	429.85	PK Nail	
5	6967725.0340	2503442.7410	427.45	Mag Nail	
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'			
REFERENCES					
WATER 39W-29 & 40W-29					
WASTEWATER BH-12.39S-29 & 40S-29					
DALLAS WATER UTILITIES					
CONTRACT NO. 21-341/342			PID: 6042		
8" WASTEWATER					
ALLEY BTWN JB JACKSON & TRUNK					
FROM PENNSYLVANIA AVE. TO CARL ST.					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
SH	Ricardo R.	Nov. 2021	411Q	327	8



Project Location

- CAUTION - TELEPHONE !**
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - FIBER OPTIC !**
Underground Fiber Optic Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - POWER !**
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - GAS !**
Underground Gas Main In Area
Contact AT&T Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005
- CAUTION**
Advanced Metering Infrastructure
(AMI) Meters In Area
All Components Shall be Disconnected, Reconnected,
Handled or Installed in AMI Personnel Only.
Contact DDU Meter Reading Operations
46025 writing ops@du.com
Tel: 972-470-5837
Email: DDU@du.com



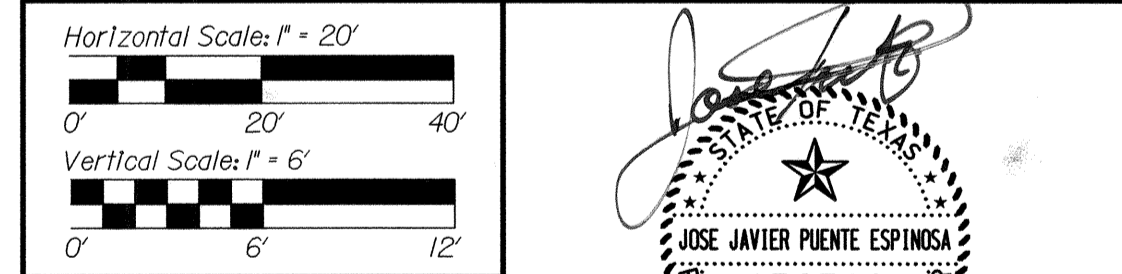
REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

COD BENCHMARK *1
A SQUARE CUT IS FOUND ON THE CENTER OF RADIUS OF CONCRETE CURB AT THE SOUTHEAST CORNER OF THE INTERSECTION OF JEFFERIES STREET AND PENNSYLVANIA AVENUE. ELEV= 434.56'

COD BENCHMARK *2
STD.WBDM IS FOUND ON THE CENTER OF RADIUS ON CONCRETE CURB AT THE SOUTHEAST CORNER OF THE INTERSECTION OF AL LIPSCOMB WAY AND ATLANTA STREET. ELEV= 449.27'

Point	Northing	Eastng	Elev.	Description
2	69674786190	25036910700	425.72	X CUT
3	69675605560	25036254720	426.07	60-B Nail Set



REFERENCES

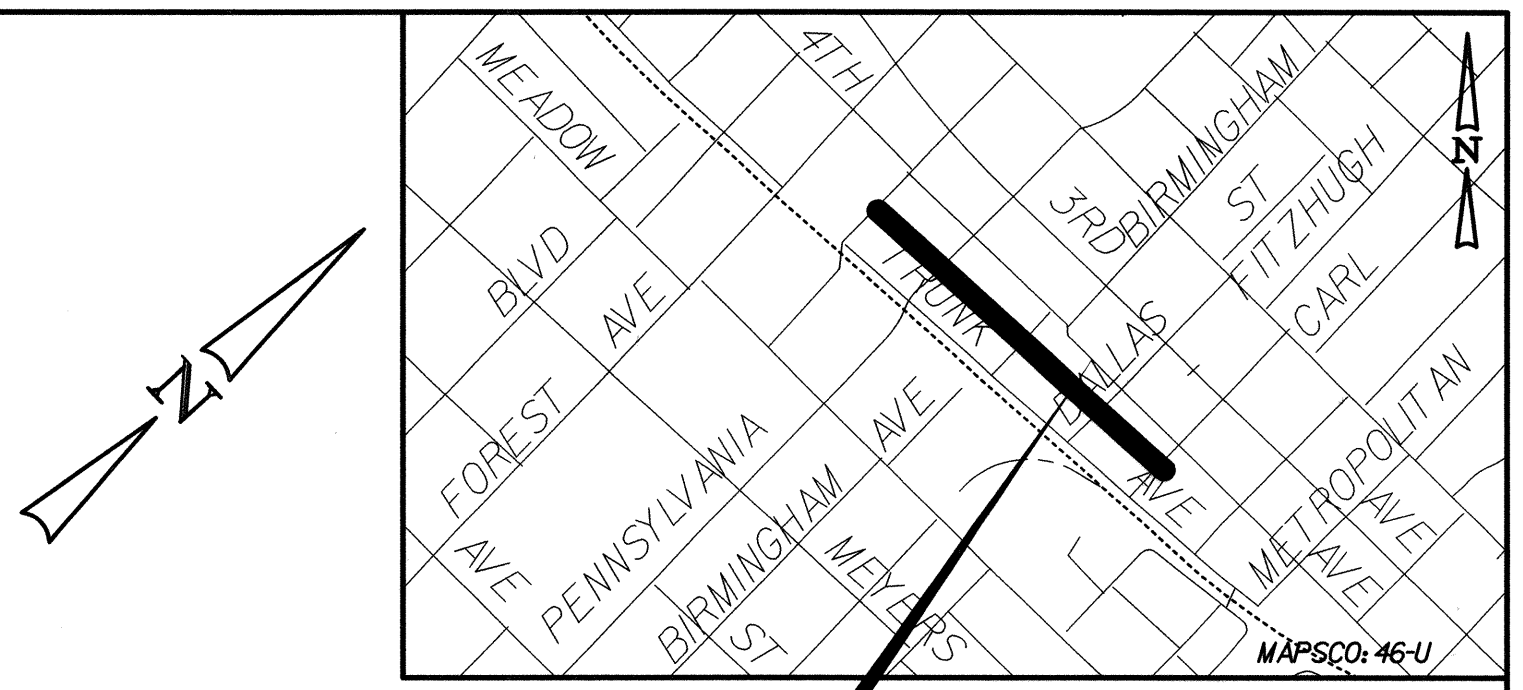
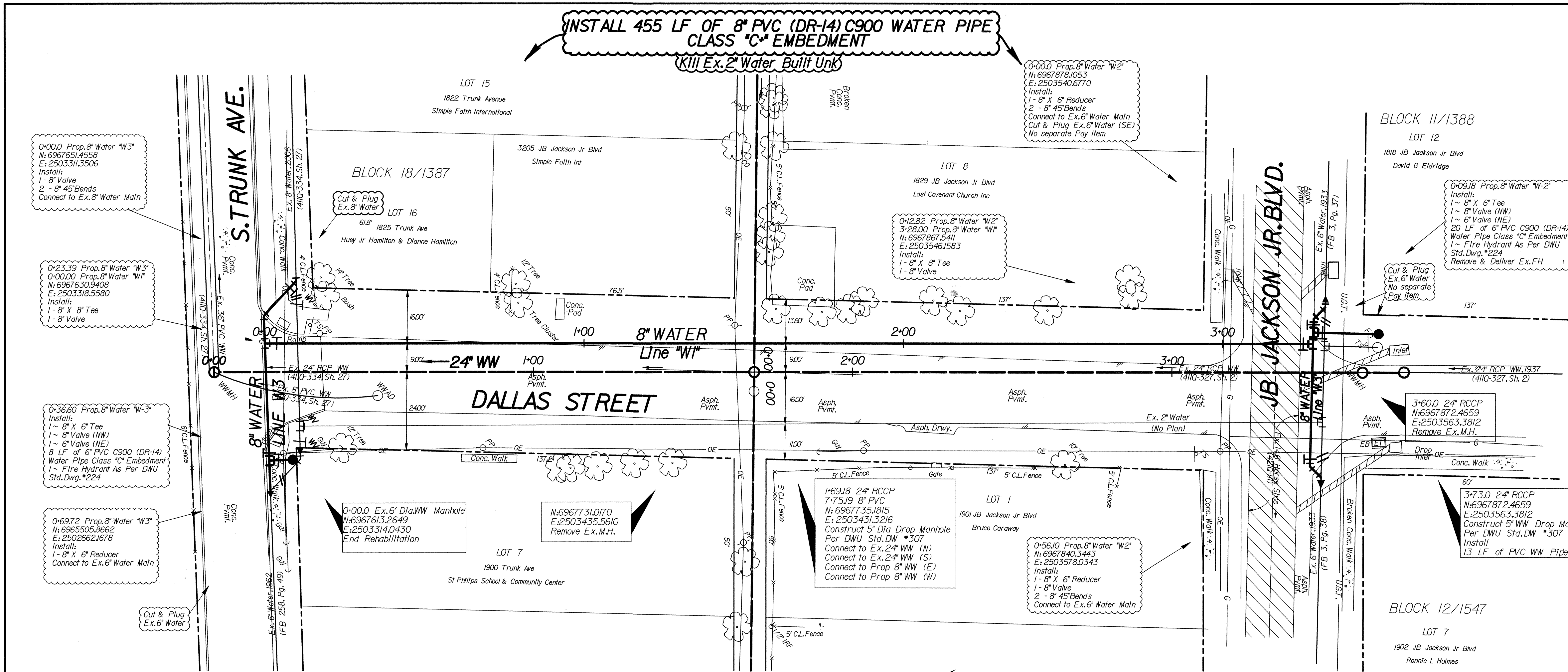
WATER
39W-29 & 40W-29

WASTEWATER
BH-12, 39S-29 & 40S-29

DALLAS WATER UTILITIES
CONTRACT NO. 21-341/342 | PID: 6042

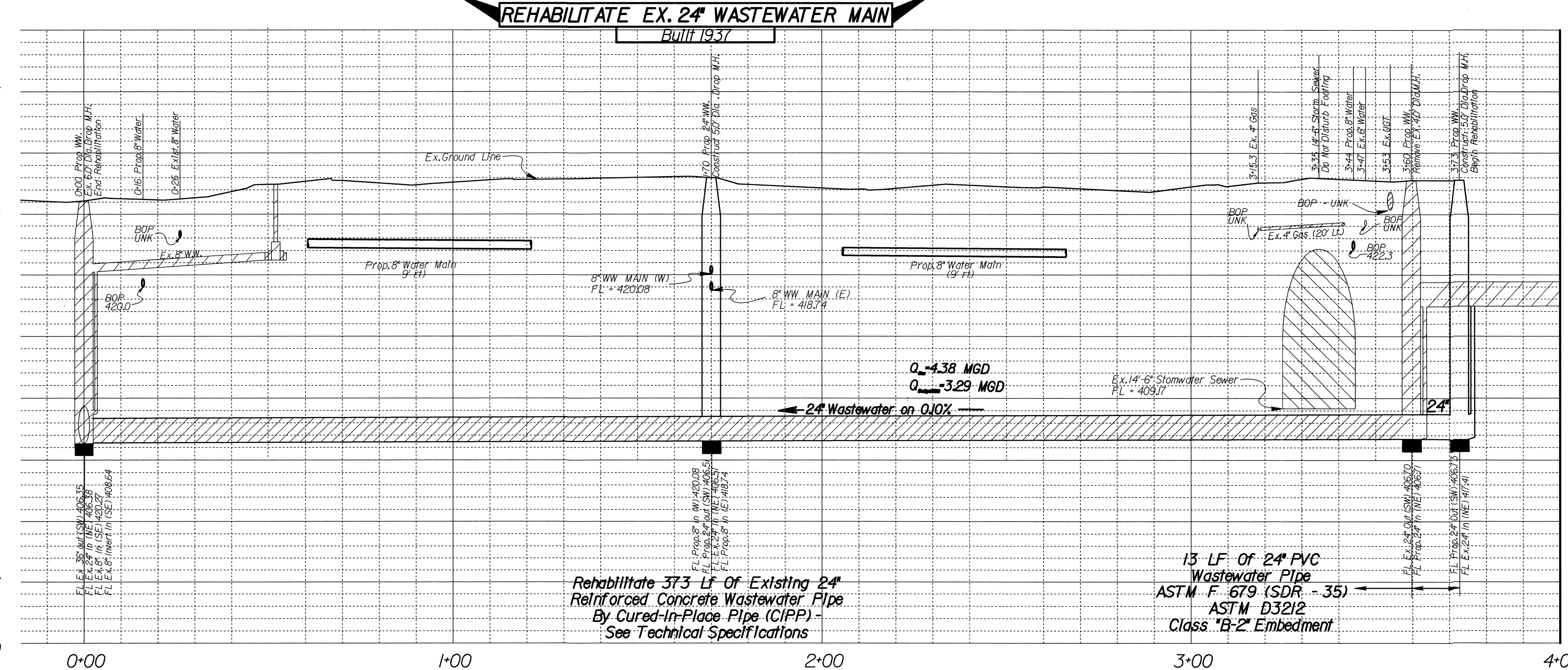
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DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
SH	Ricardo R.	Nov. 2021	41IQ	327	9

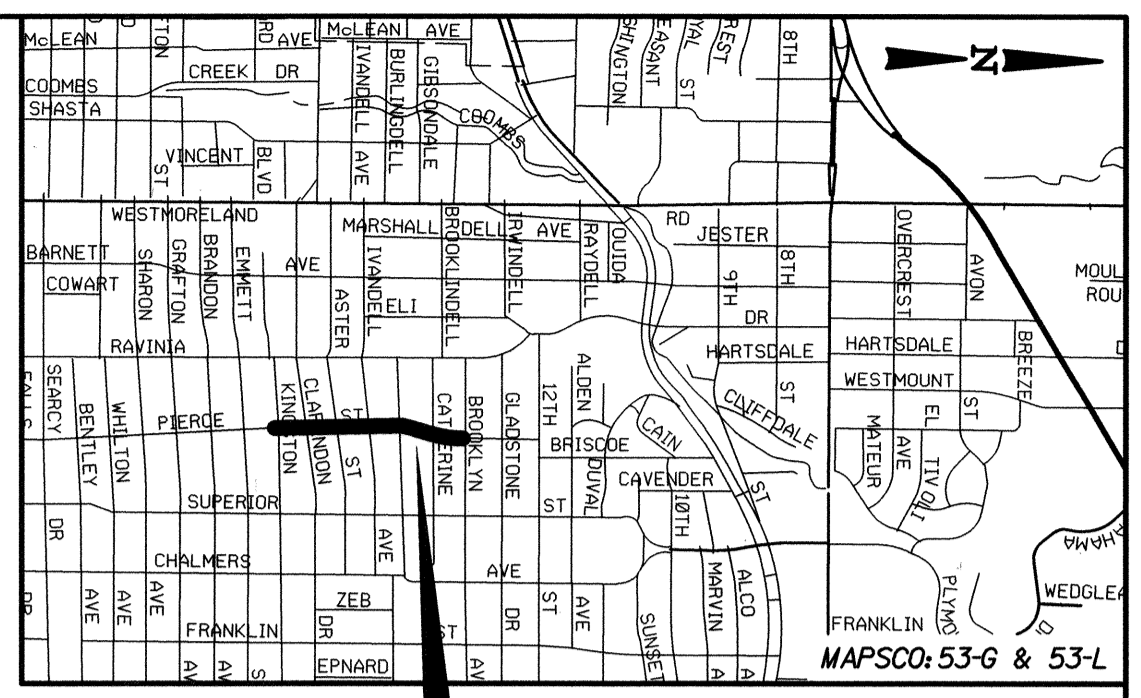
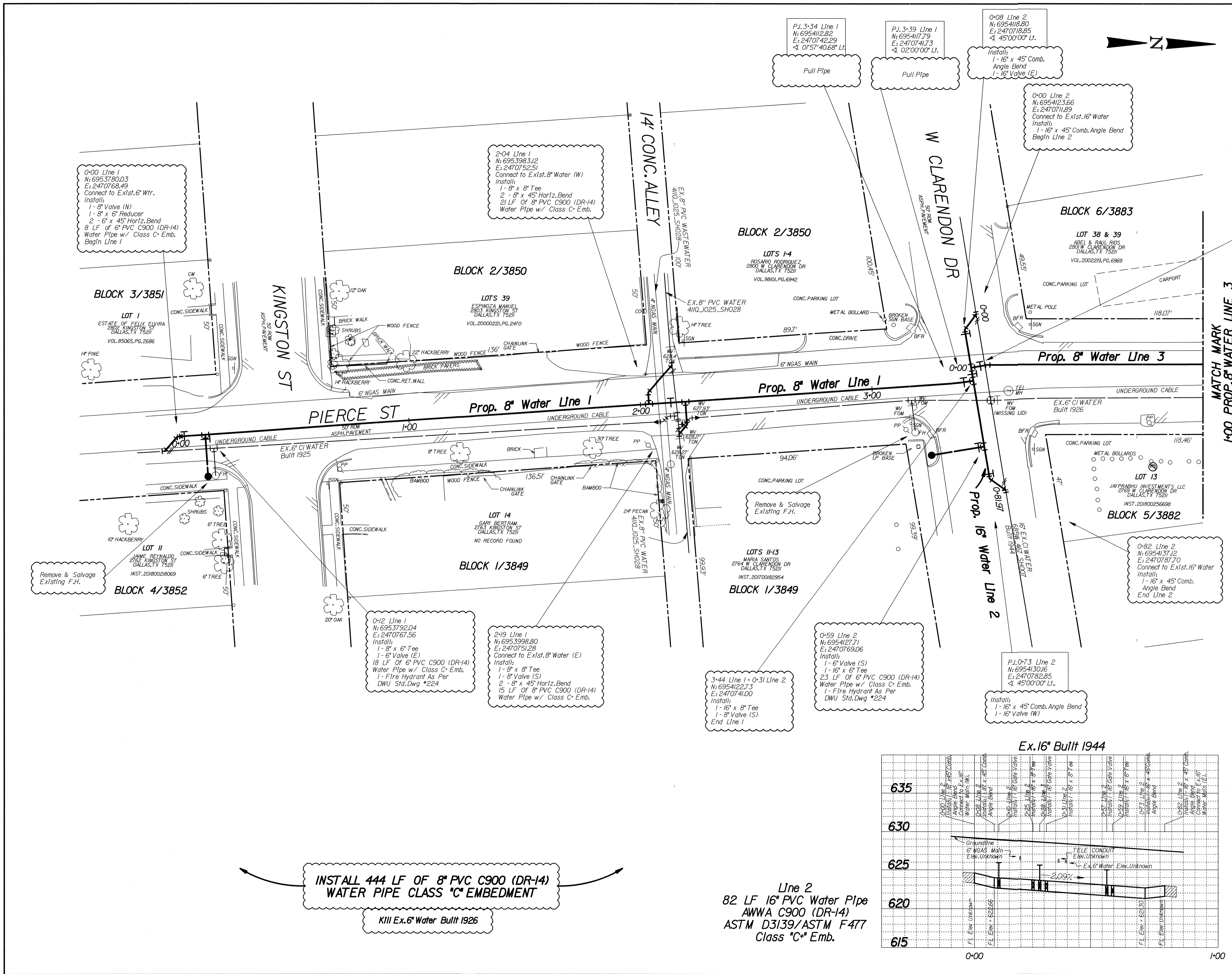


Note:
 The Contractor Shall Do The Following:
 1. Remove the Existing 6" Drop Manhole
 2. Extend Wastewater Line
 3. CIPP Through new WW Segment
 4. Install New 5" WW Drop Manhole

- CAUTION - TELEPHONE**
 Underground Telephone Cables In Area
 Contact AT&T, Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377
- CAUTION - FIBER OPTIC**
 Underground Fiber Optic Cables In Area
 Contact AT&T, Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377
- CAUTION - POWER**
 Underground Electrical Cables In Area
 Contact TXU Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377
- CAUTION - GAS**
 Underground Gas Main In Area
 Contact AT&T Energy Corp. Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377/1-800-545-0005
- CAUTION - ADVANCED METERING INFRASTRUCTURE (AMI) METERS IN AREA**
 All Components Shall be Disconnected, Reconnected,
 Replaced or Installed in 90 Days Prior to Construction.
 Contact AMU Meter Reading Operations
 1800'S working days prior to construction.
 Tele: 1-800-344-8377
 Email: AMU@cityofdallas.com



REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
COD BENCHMARK *1 A SQUARE CUT IS FOUND ON THE CENTER OF RADIUS OF CONCRETE CURB AT THE SOUTHEAST CORNER OF THE INTERSECTION OF JEFFERIES STREET AND PENNSYLVANIA AVENUE. ELEV = 434.56'					
COD BENCHMARK *2 STD.WBDM IS FOUND ON THE CENTER OF RADIUS ON CONCRETE CURB AT THE SOUTHEAST CORNER OF THE INTERSECTION OF AL LIPSCOMB WAY AND ATLANTA STREET. ELEV = 449.27'					
Point	Northing	Easting	Elev.	Description	
1	6967370.8120	2503578.3950	424.87	X CUT	
2	6967478.6190	2503691.0700	425.72	X CUT	
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 39W-29 & 40W-29					
WASTEWATER BH-12, 39S-29 & 40S-29					
DALLAS WATER UTILITIES					
CONTRACT NO. 21-341/342		PID: 3173			
8" WATER & 24" WASTEWATER					
DALLAS STREET					
FROM TRUNK TO JB JACKSON BLVD.					
DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JP	Ricardo R.	Nov. 2021	411Q	327	10



- CAUTION - FIBER OPTIC !**
 Underground Fiber Optic Cables In Area
 Contact Fiber Optic Co. Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377
- CAUTION - GAS !**
 Underground Gas Main In Area
 Contact ATMS Energy Corp. Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377 / 1-800-545-6005
- CAUTION - TELEPHONE !**
 Underground Telephone Cables In Area
 Contact SBC. Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377
- CAUTION - POWER !**
 Underground Electrical Cables In Area
 Contact TXU. Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377
- CAUTION - Advanced Metering Infrastructure (AMI) Meters In Area**
 AMI Components Shall be Installed Prior to Construction.
 Removal or Disturbance by DWU Personnel Only.
 Contact DWU for Metering Operations.
 DWU's working days in advance.
 Tel: 940-955-5137
 Email: DWUAMI@cityofdallas.com

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS				
BENCHMARK #103 SQUARE CUT W/ X SET ON BACK OF CURB CENTER OF RADIUS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF ASTER ST. & PIERCE ST. ELEV - 622.18'				
POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
CP101	6953806.97	2470786.81	634.12'	SQUARE CUT
CP102	6954147.76	2470721.23	628.52'	SQUARE CUT
CP103	6954418.34	2470745.21	623.08'	MAG SPIKE
CP104	6954747.91	2470712.62	619.78'	SQUARE CUT
CP105	6955122.21	2470709.85	605.38'	SQUARE CUT
CP106	6955415.67	2470787.12	616.85'	SQUARE CUT
CP107	6955747.72	2470888.83	614.23'	SQUARE CUT

Horizontal Scale: 1" = 20'
 Vertical Scale: 1" = 6'

REFERENCES

WATER
 45-18W, 46-18W

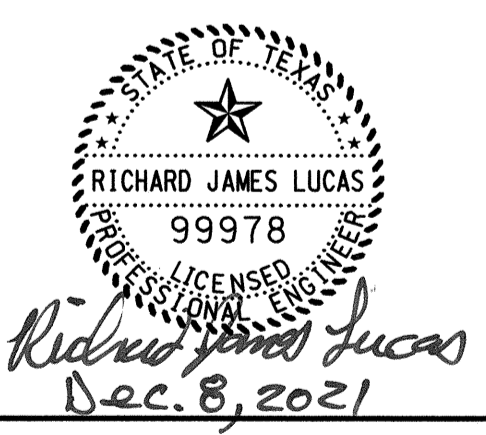
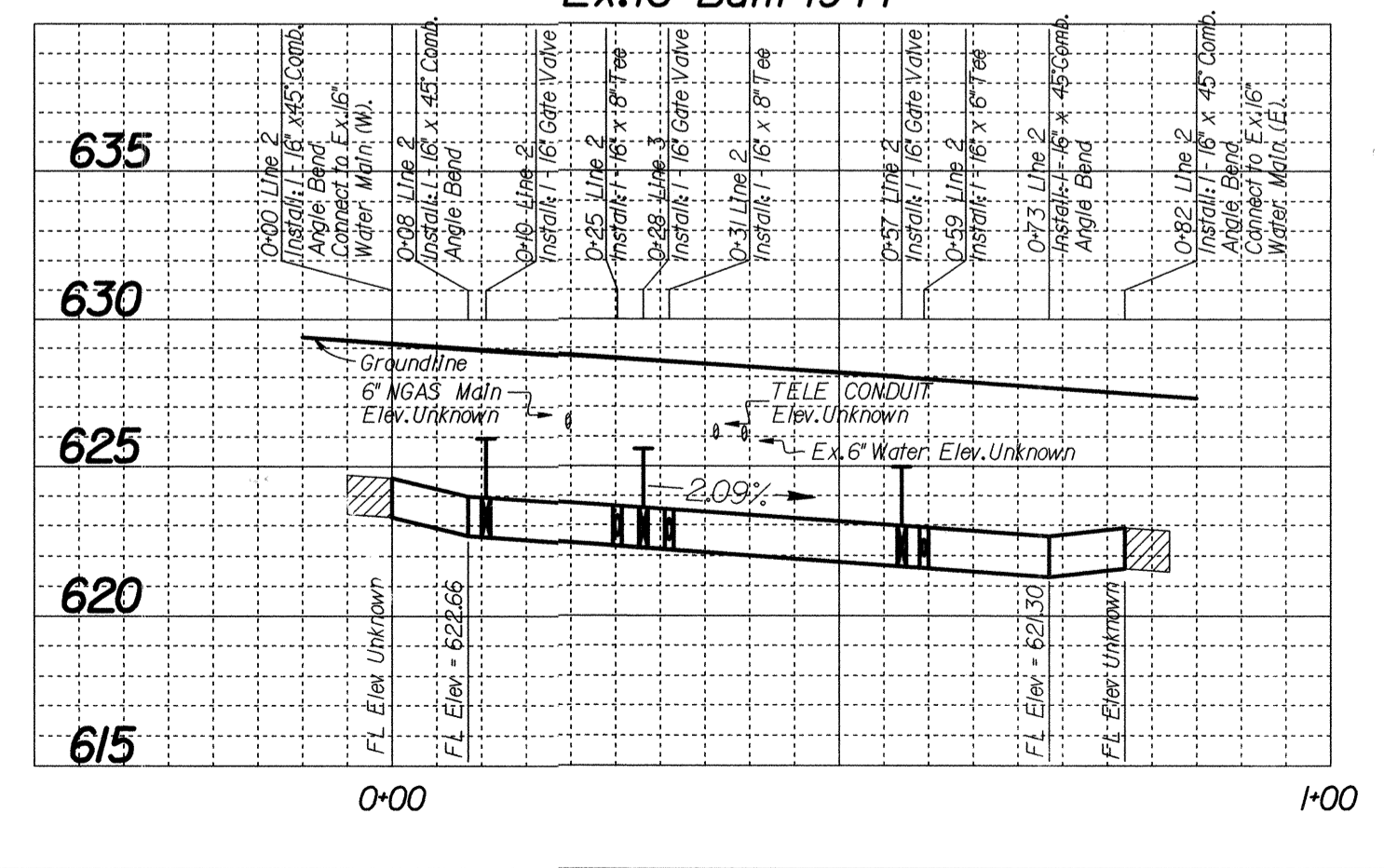
WASTEWATER
 45-16S, 46-18S

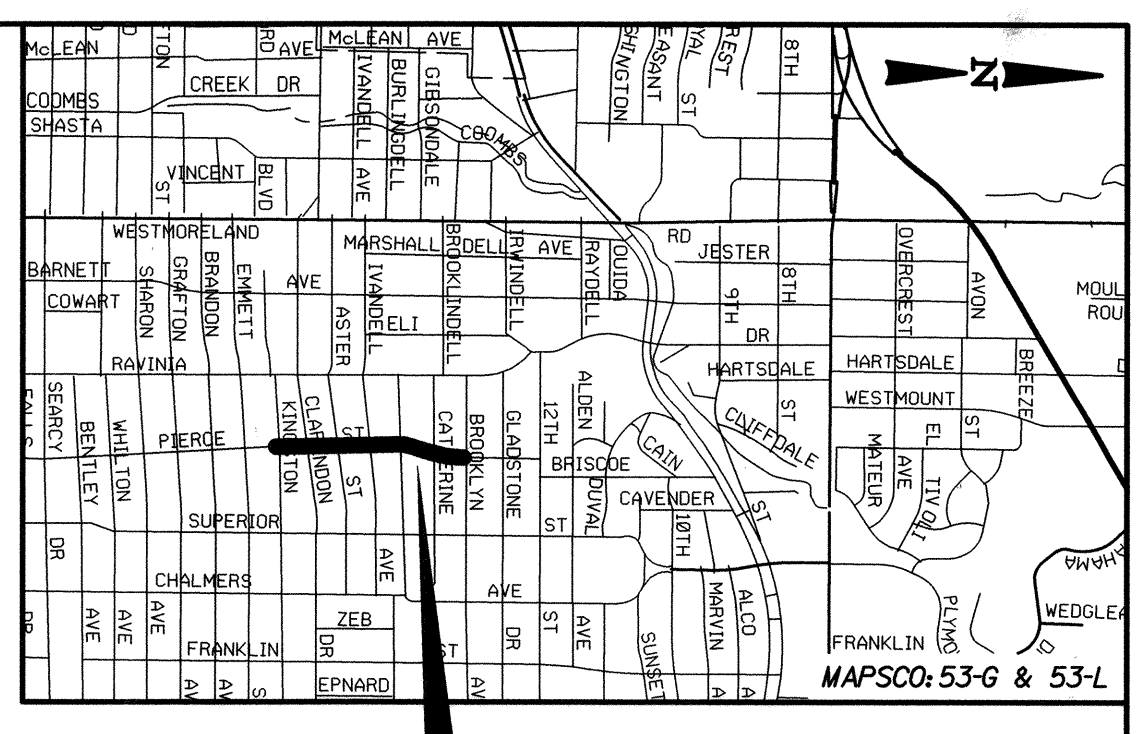
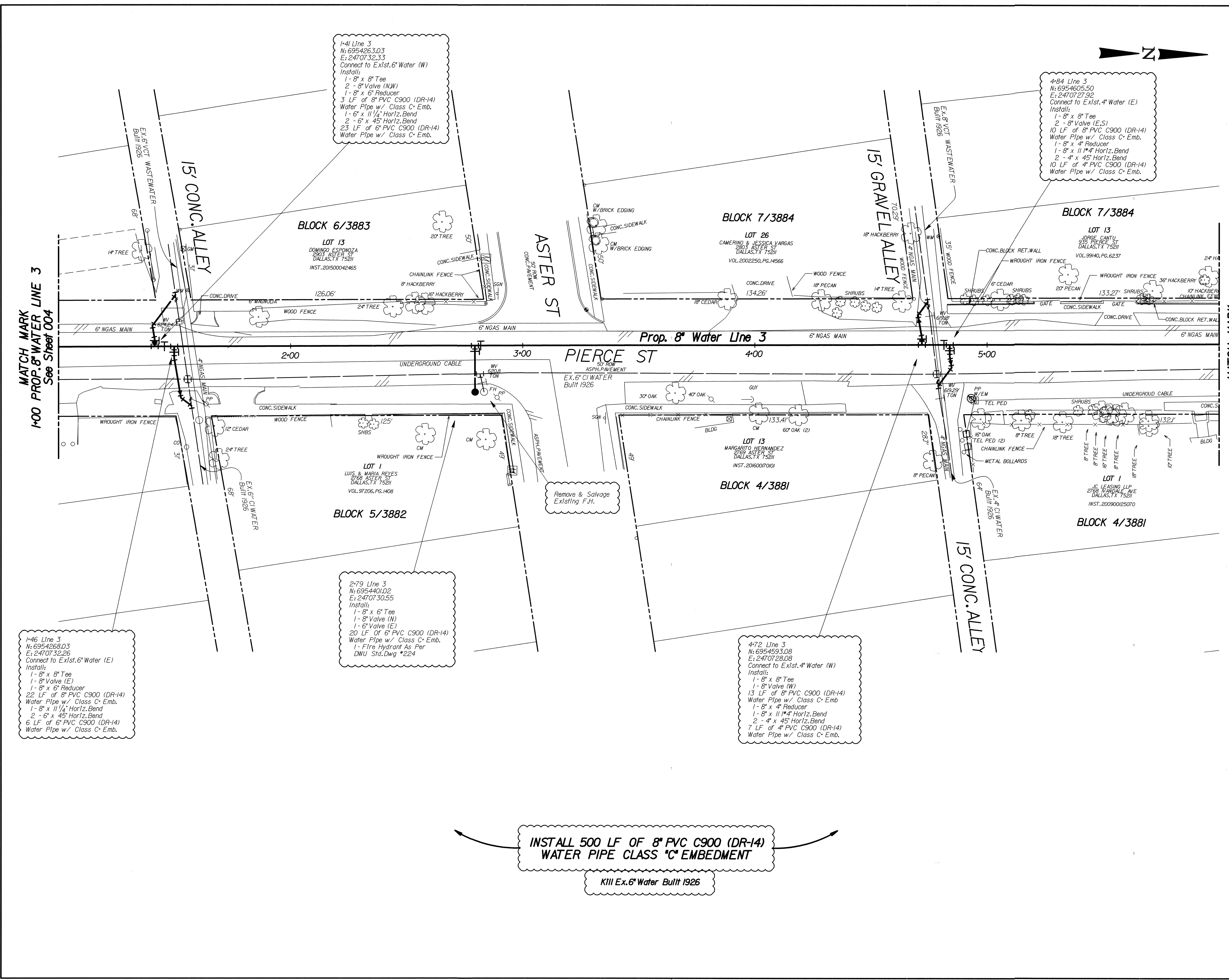
Dallas Water Utilities

CONTRACT NO. 21-341/21-342 **PID: 3286**

8" Water and 8" Wastewater
PIERCE ST.
KINGSTON ST. TO W. BROOKLYN AVE.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN: KC DRAWN: KC DATE: MAY 2021 FILE: 411Q NUMBER: 0336 SHEET: 004





- CAUTION - FIBER OPTIC !**
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - GAS !**
Underground Gas Main In Area
Contact AMOS Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005
- CAUTION - TELEPHONE !**
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - POWER !**
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - Advanced Metering Infrastructure (AMI) Meters In Area**
All Contractors Shall be in Communication with
Advanced Metering Infrastructure (AMI) Meters
Prior to Construction. Contact AMI
Meters at 1-800-344-8377.
E-mail: DMW@DWMU.com

REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

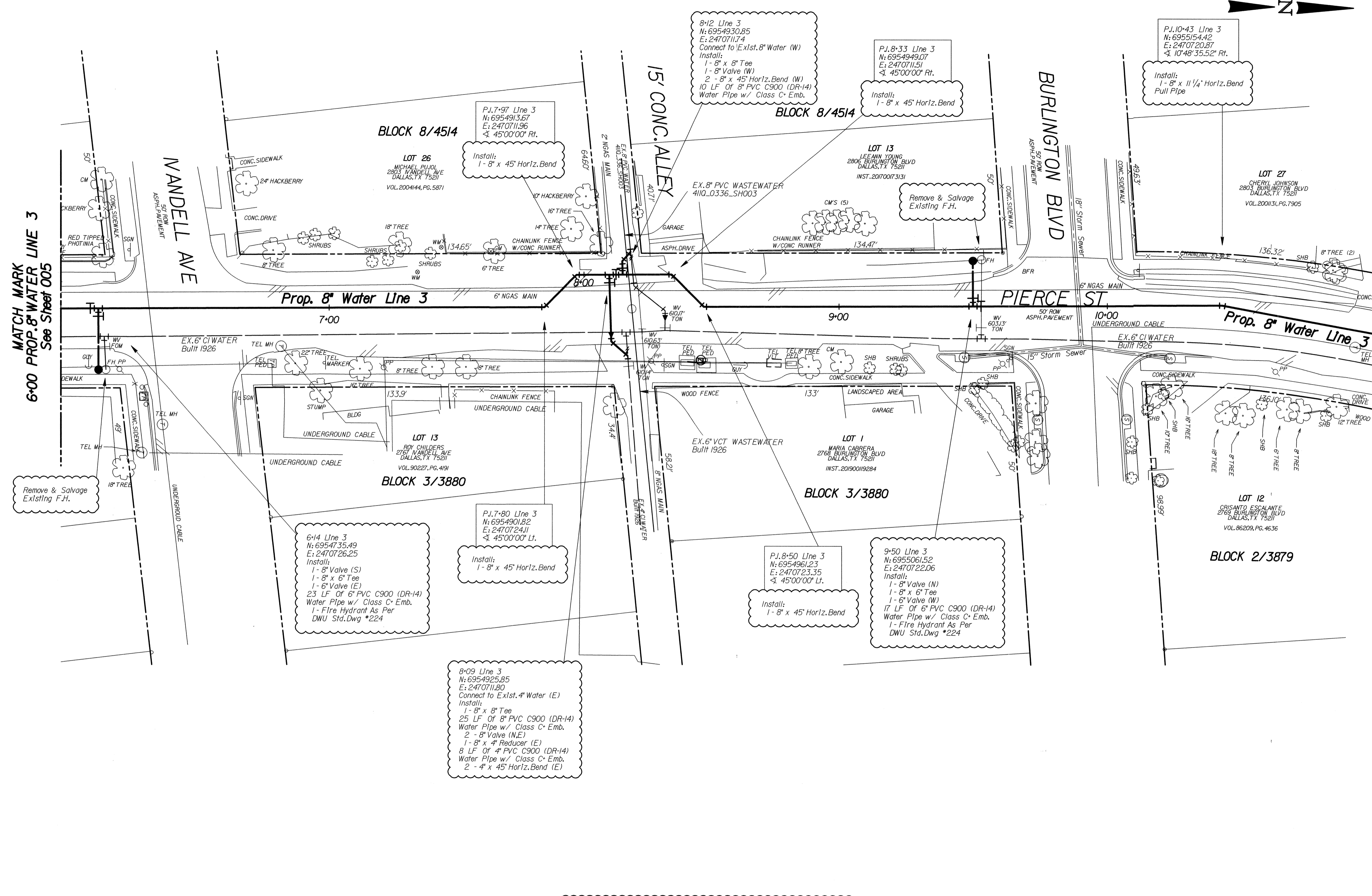
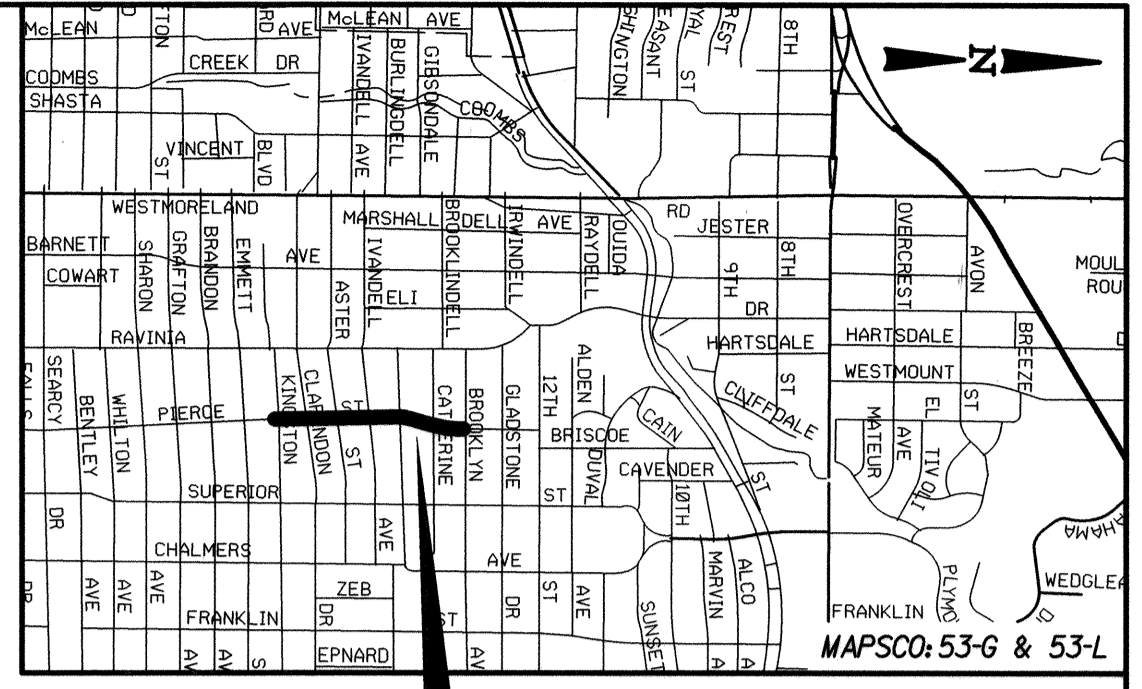
BENCHMARKS & CONTROL POINTS			
BENCHMARK #103 SQUARE CUT W/ X SET ON BACK OF CURB CENTER OF RADIUS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF ASTER ST. & PIERCE ST. ELEV - 622.18'			
POINT	NORTHING	EASTING	ELEV.
CP101	6953806.97	2470786.81	634.12'
CP102	6954147.76	2470721.23	628.52'
CP103	6954418.34	2470745.21	623.08'
CP104	6954747.91	2470712.62	619.78'
CP105	6955122.21	2470709.85	605.38'
CP106	6955415.67	2470787.12	616.85'
CP107	6955747.72	2470888.83	614.23'

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

REFERENCES
WATER
45-18W, 46-18W
WASTEWATER
45-18S, 46-18S

RICHARD JAMES LUCAS
99978
PROFESSIONAL ENGINEER
STATE OF TEXAS
Lic. 99978
Dec. 8, 2021

CONTRACT NO. 21-341/21-342		PID: 3286	
8" Water and 8" Wastewater			
PIERCE ST.			
KINGSTON ST. TO W. BROOKLYN AVE.			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
KC	KC	MAY 2021	411Q 0336 005



MATCH MARK LINE 3
6:00 PROP. 8\"/>

MATCH MARK LINE 3
11:00 PROP. 8\"/>

- CAUTION ~ FIBER OPTIC I**
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tel: 1-800-344-8377
- CAUTION ~ GAS I**
Underground Gas Main In Area
Contact AMCS Energy Corp. Two Working
Days Prior To Construction.
Tel: 1-800-344-8377/1-800-545-6005
- CAUTION ~ TELEPHONE I**
Underground Telephone Cables In Area
Contact AT&T Two Working
Days Prior To Construction.
Tel: 1-800-344-8377
- CAUTION ~ POWER I**
Underground Electrical Cables In Area
Contact TDU Two Working
Days Prior To Construction.
Tel: 1-800-344-8377
- CAUTION
Advanced Metering Infrastructure
(AMI) Meters In Area**
AMI Components: Do not be disconnected, reconnected,
repaired, or installed by DWU Personnel ONLY.
Contact DWU Meter Reading Operations
(MRO) working days in advance.
Tel: 214-241-5537
Email: DWU@DallasWater.com

REVISIONS

REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK #103
SQUARE CUT W/ X SET ON BACK OF CURB CENTER OF RADIUS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF ASTER ST. & PIERCE ST.
ELEV - 622.18'

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
CP101	6953806.97	2470786.81	634.12'	SQUARE CUT
CP102	6954147.76	2470721.23	628.52'	SQUARE CUT
CP103	6954418.34	2470745.21	623.08'	MAG SPIKE
CP104	6954747.91	2470712.62	619.78'	SQUARE CUT
CP105	6955122.21	2470709.85	605.38'	SQUARE CUT
CP106	6955415.67	2470787.12	616.85'	SQUARE CUT
CP107	6955747.72	2470888.83	614.23'	SQUARE CUT

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

REFERENCES
WATER
45-18W, 46-18W
WASTEWATER
45-18S, 46-18S

RICHARD JAMES LUCAS
99978
PROFESSIONAL ENGINEER
LICENSED IN TEXAS
Dec. 8, 2021

INSTALL 500 LF OF 8" PVC C900 (DR-14)
WATER PIPE CLASS "C" EMBEDMENT

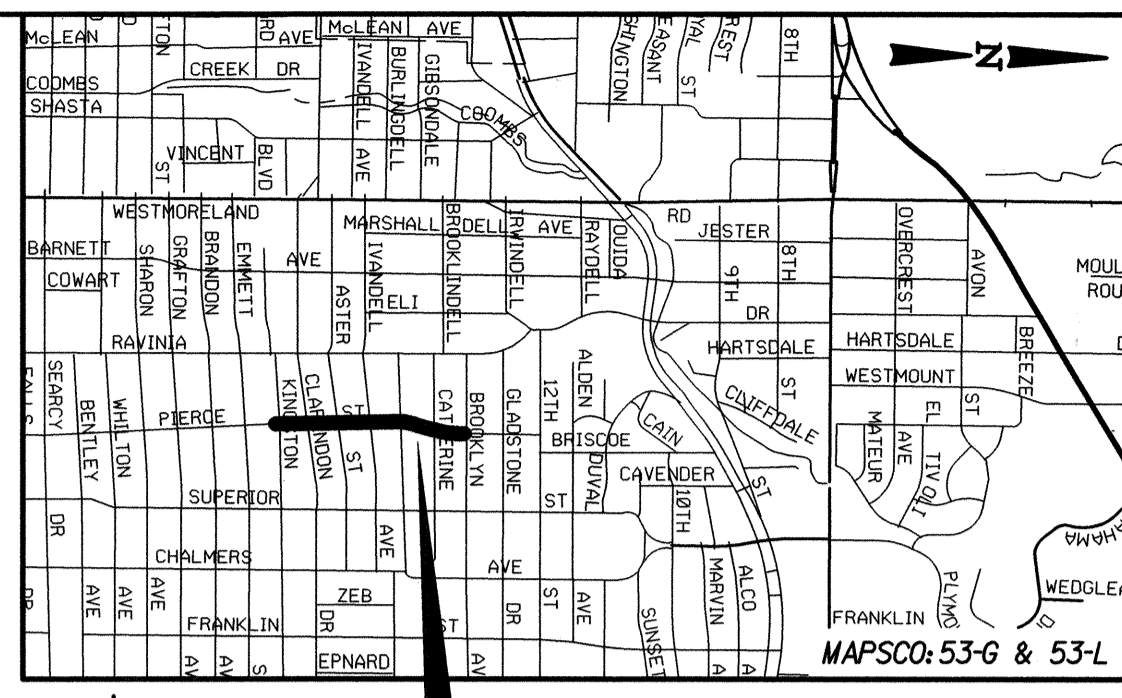
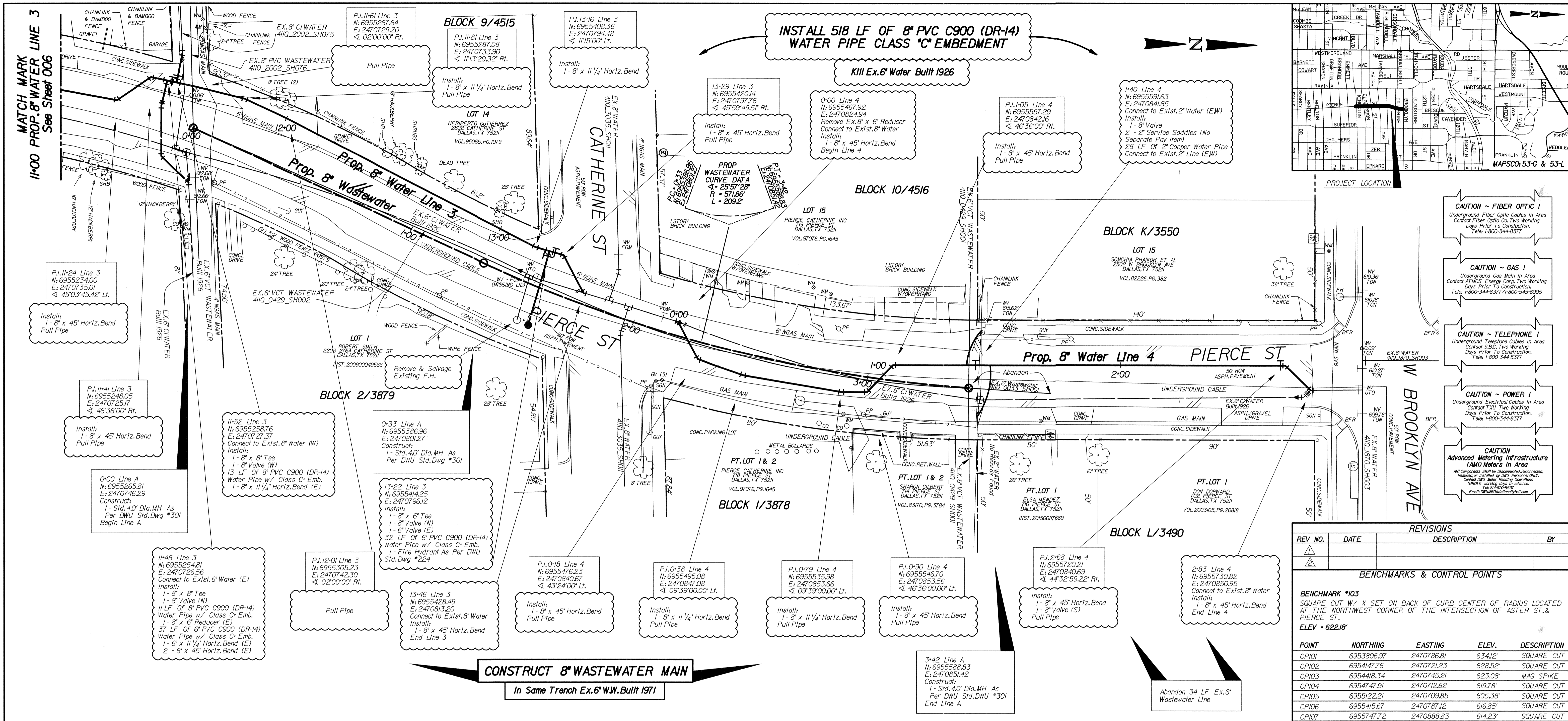
KIII Ex. 6" Water Built 1926

Dallas Water Utilities

CONTRACT NO. 21-341/21-342 PID: 3286

8" Water and 8" Wastewater
PIERCE ST.
KINGSTON ST. TO W. BROOKLYN AVE.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
KC	KC	MAY 2021	411Q	0336	006



- CAUTION - FIBER OPTIC !**
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - GAS !**
Underground Gas Mains In Area
Contact AT&T Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005
- CAUTION - TELEPHONE !**
Underground Telephone Cables In Area
Contact SBC Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION - POWER !**
Underground Electrical Cables In Area
Contact SBC Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION
Advanced Metering Infrastructure
(AMI) Meters In Area**
AMI Components Shall be Disconnected, Demounted,
Replaced or Installed by DDU Personnel ONLY.
Contact DDU Meter-Reading Operations
Tel: 214-695-6537
Email: DDU@DallasWater.com

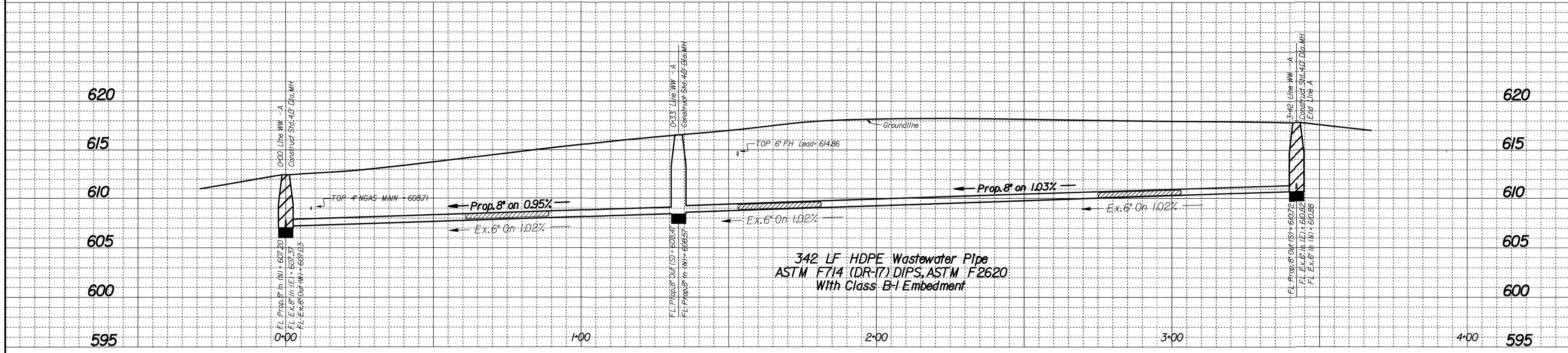
REV. NO.	DATE	DESCRIPTION	BY

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
CP101	6953806.97	2470786.81	634.12'	SQUARE CUT
CP102	6954147.76	2470721.23	628.52'	SQUARE CUT
CP103	6954418.34	2470745.21	623.08'	MAG SPIKE
CP104	6954747.91	2470712.62	619.78'	SQUARE CUT
CP105	6955122.21	2470709.85	605.38'	SQUARE CUT
CP106	6955415.67	2470787.12	616.85'	SQUARE CUT
CP107	6955747.72	2470888.83	614.23'	SQUARE CUT

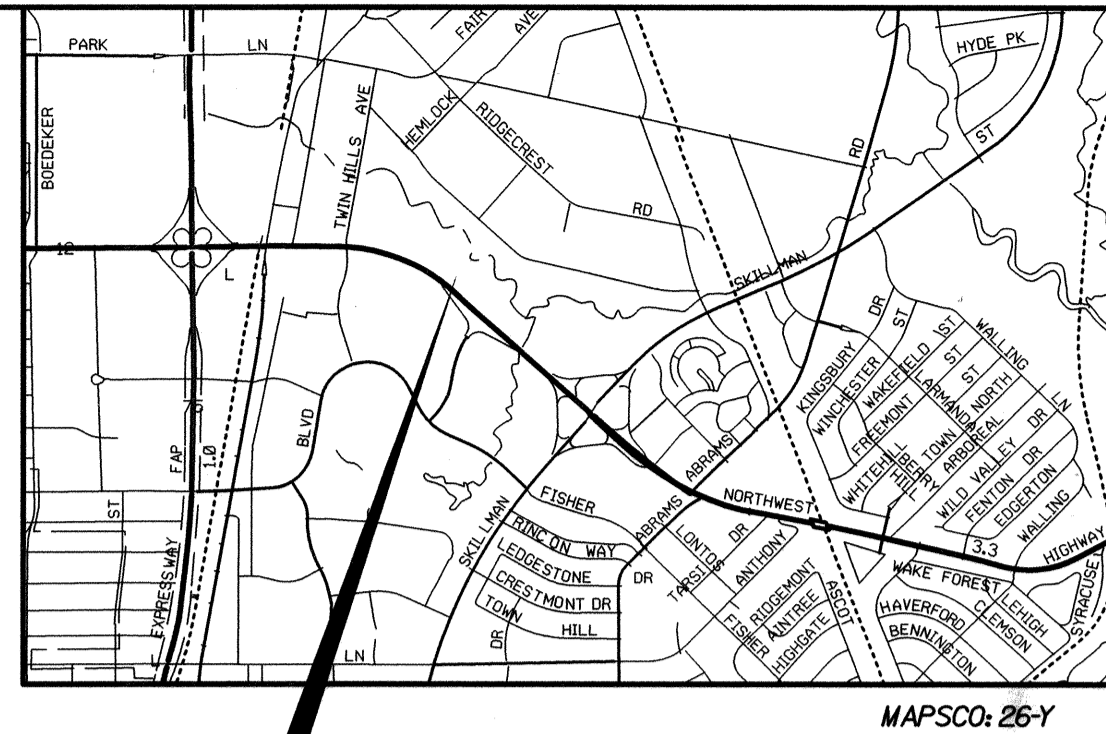
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

REFERENCES
WATER
45-18W, 46-18W
WASTEWATER
45-18S, 46-18S

CONTRACT NO. 21-341/21-342		PID: 3286	
8" Water and 8" Wastewater			
PIERCE ST. KINGSTON ST. TO W. BROOKLYN AVE.			
DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
KC	KC	MAY 2021	411Q
			NUMBER
			0336
			SHEET
			007



641 LF 8" PVC C900 (DR-14) WATER PIPE &
329 LF 6" PVC C900 (DR-14) WATER PIPE
CLASS C* EMBEDMENT.
KILL Ex. 8" DJ. WATER, BUILT 1977



Project Location

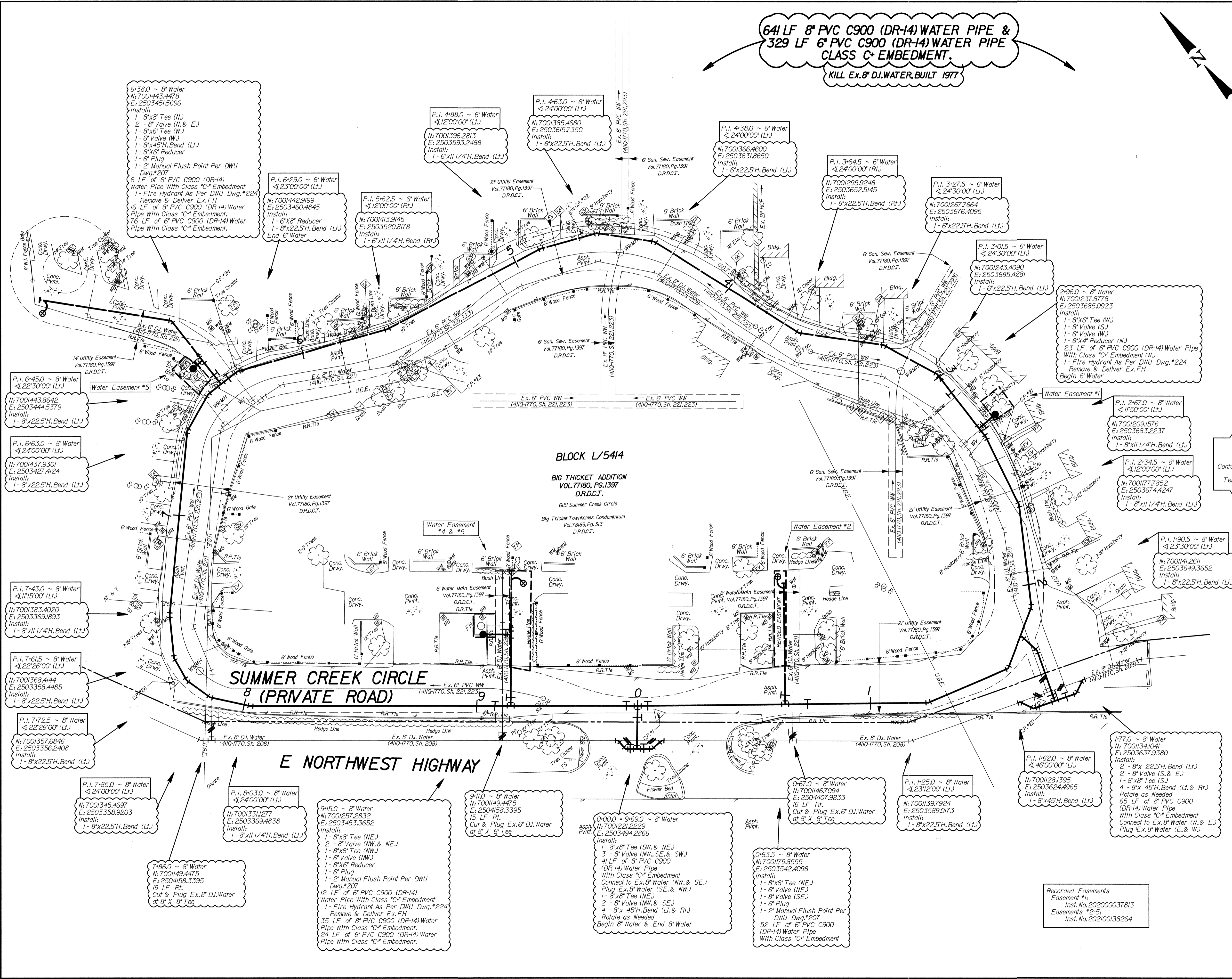
CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area
Contact AFMOS Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005

**CAUTION
Advanced Metering Infrastructure
(AMI) Meters In Area**
AMI Components Shall be Disconnected, Reconnected,
Removed, or Installed by DWU Personnel ONLY.
Contact DWU Meter-Reading Operations
(MRO) 5 working days in advance.
Email: DWU@mro.dallaswater.com

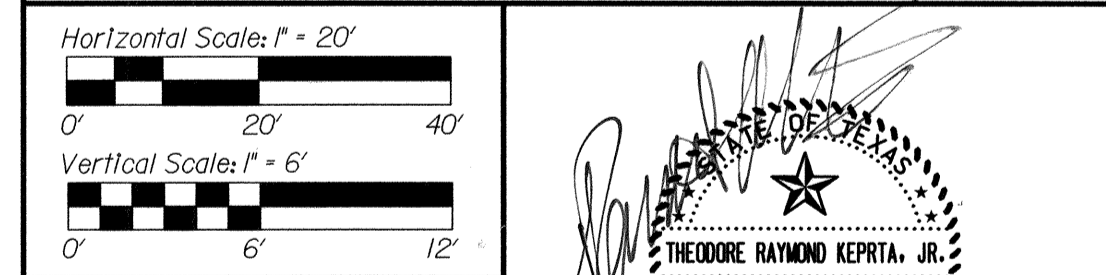


REVISIONS

REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS
A SQUARE CUT IS FOUND ON TOP OF CONCRETE CURB STORM
SEWER DROP INLET ON THE WEST SIDE OF SHADYBROOK LANE
AND 100' SOUTH OF NORTHWEST HIGHWAY. ELEV = 575.63'
WATER DEPT. BM #1 26-X-1

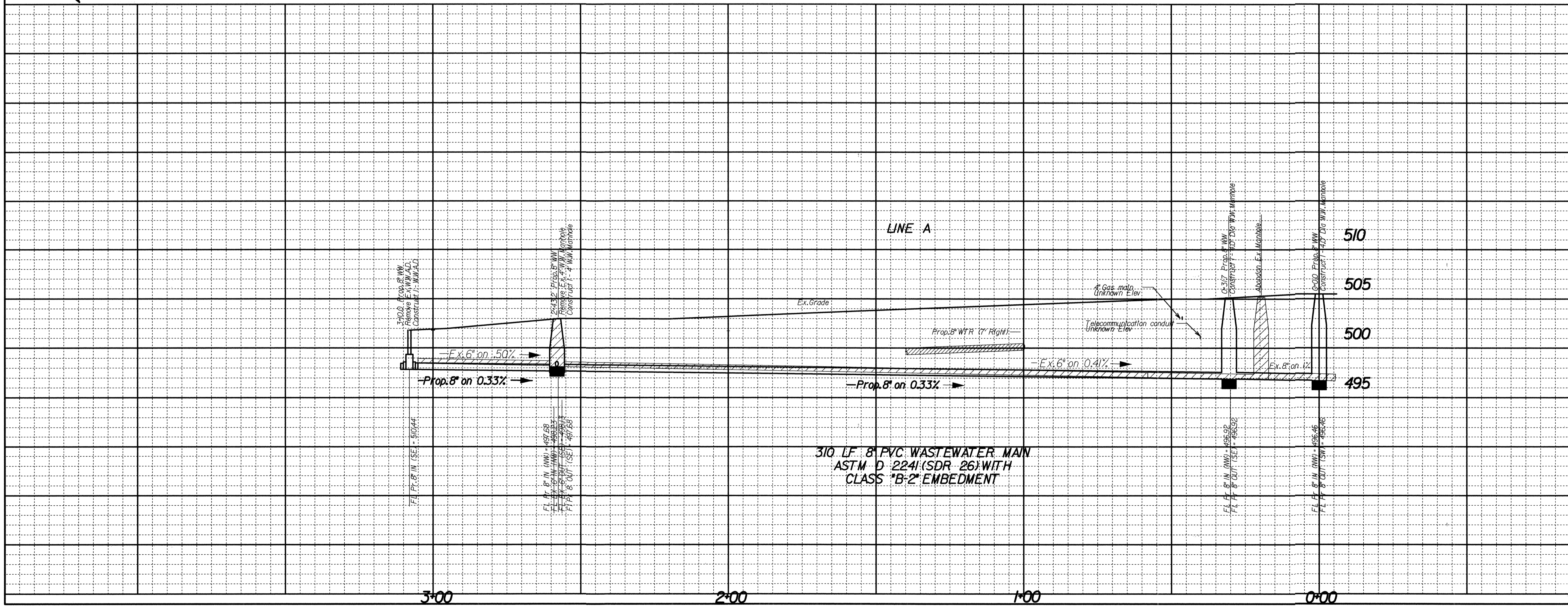
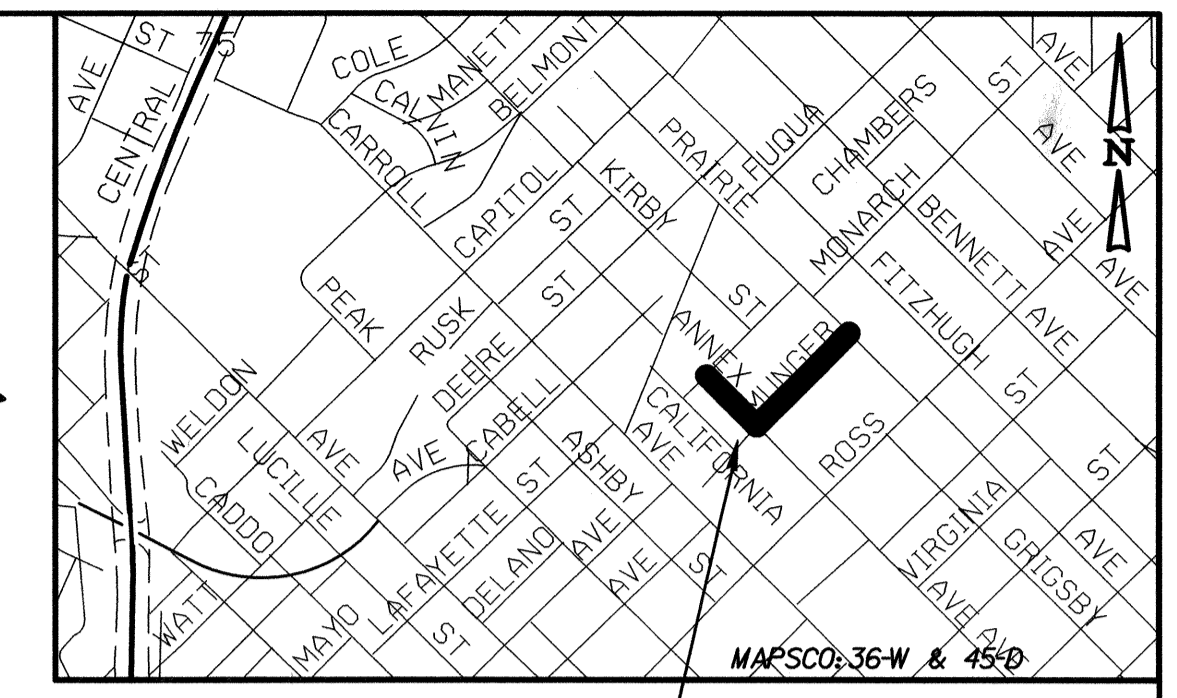
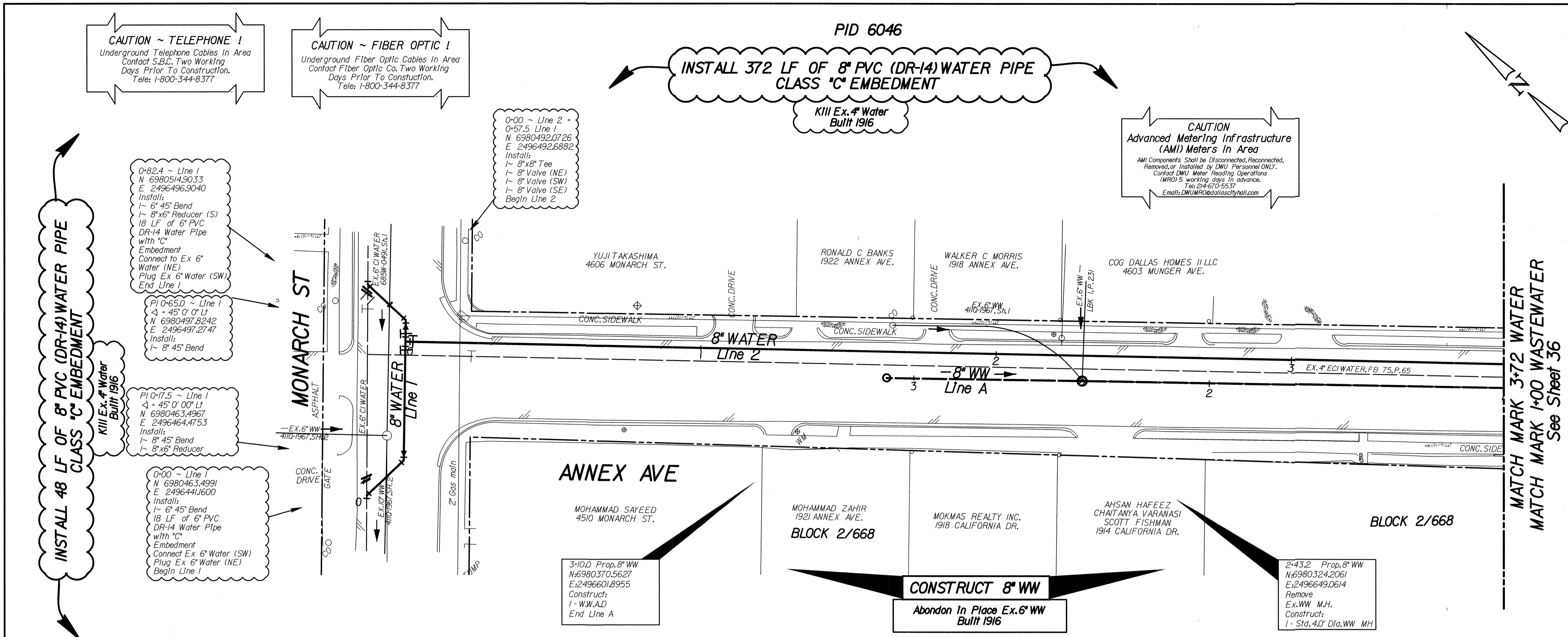
Point	Northing	Eastng	Elev.	Description
1	7001212510	25034986340	533.98	X CUT
20	7001082890	25036245660	525.62	X CUT
21	70012034160	25036886710	520.97	X CUT
22	70013894780	25036107220	517.37	X CUT
23	70013913200	25035249610	520.80	X CUT
24	70013894780	25036107220	522.74	X CUT
26	70013607410	25033515000	530.76	X CUT



REFERENCES
WATER 23-29W
WASTEWATER BH-7

DWU-ENGINEERING SERVICES
CONTRACT NO. 21-341/342 | PID: 6008
8" and 6" WATER MAINS
SUMMER CREEK CIRCLE
From Northwest Highway to
Northwest Highway
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
M. DANESH	M. DANESH	SEPT 2021	411Q	1770	679



REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
35-Z-4	Square cut on concrete curb of storm sewer drop inlet at the northwest corner of the intersection of Kirby St & Capital Ave. ELEV - 50978'				
35-Z-7	Square cut on concrete curb at midpoint on the northeast corner of the intersection of Deere St. & Kirby St in front of power pole. ELEV - 50871'				
Point	Northing	Easting	Elev.	Description	
1	6979755.623	2496434.122	498.34	X CUT	
2	6980765.293	2496734.653	506.34	X CUT	
3	6980664.191	2497271.727	514.65	X CUT	
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 34W-27, 33W-27					
WASTEWATER 33-27 s.e., 33-27 s.d.					
DWU Engineering Services					
CONTRACT NO. 21-341/342			PID: 6046		
8" WATER & 8" WASTEWATER					
ANNEX AVE					
FROM MUNGER AVE TO MONARCH ST					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
C. SHIELDS	C. SHIELDS	SEPT 2021	411Q	1967	35

See Line A Profile on Sheet 34

See Sheet 35
MATCH MARK 3+72 WATER
MATCH MARK 1+00 WASTEWATER

PID 6045
INSTALL 400 LF OF 12" PVC (DR-14) WATER PIPE
CLASS "C" EMBEDMENT
K111 Ex. 12" Water
Built 1916

PID 6046
INSTALL 91 LF OF 8" PVC (DR-14) WATER PIPE
CLASS "C" EMBEDMENT
K111 Ex. 12" Water
Built 1916

0+31.7 Prop. 8" WW
N:69801757945
E:24967989778
Construct:
1 - Std. 40" Dia. WW MH

0+19.5 (10' Right)
Plug Ex. 6" Wastewater
Manhole (N) with OJ CY
Class B Concrete

0+00 Prop. 8" WW
N:69801530296
E:24967769975
Construct:
1 - Std. 40" Dia. WW MH
Begin Prop. 8" WW

0+000 ~ Line 3
+ Ex. 12" Water
N: 69801392091
E: 24967119870
Install:
1 - 12" 45° Bend
Begin Line 3

PI 0+225 ~ Line 3
+ 45° O' 00"
N: 69801387736
E: 24967944557
Install:
1 - 12" 45° Bend

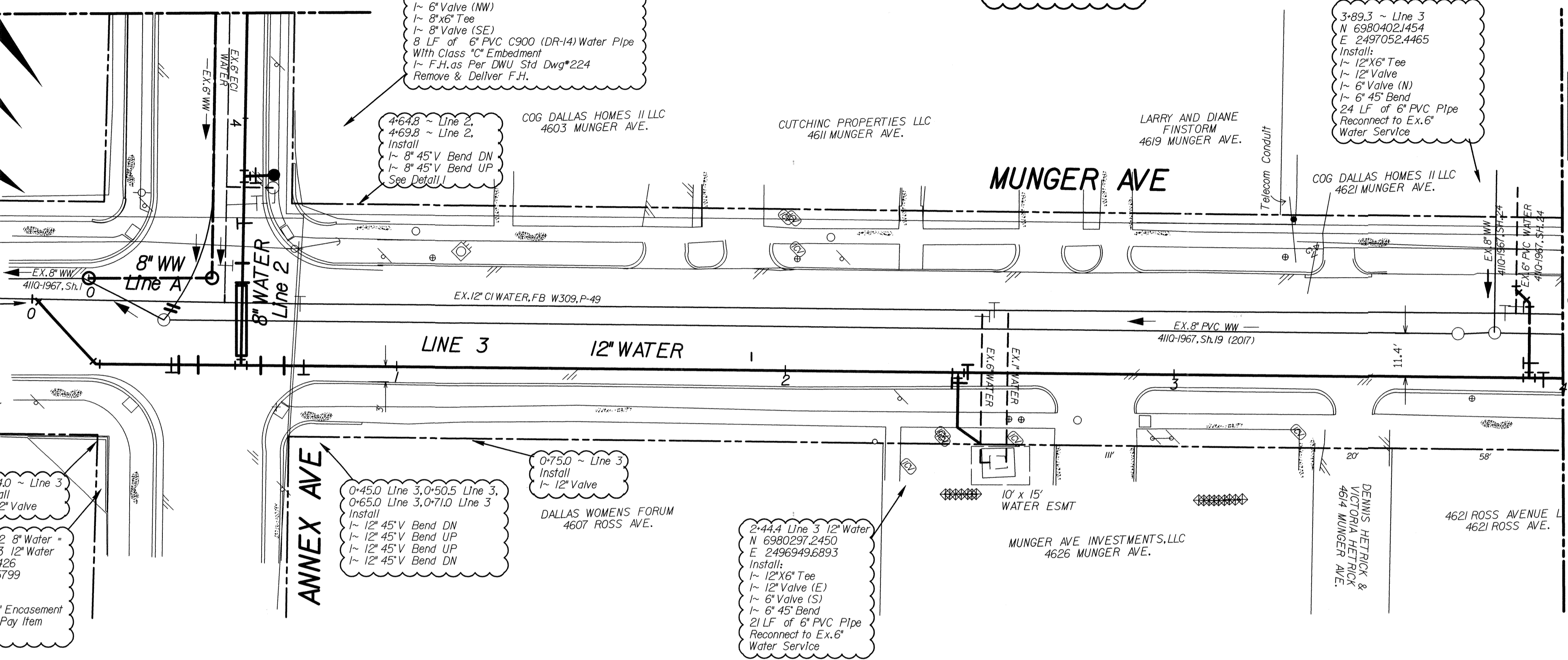
0+44.0 ~ Line 3
Install:
1 - 12" Valve

4+63.2 Line 2 8" Water
+ 0+59.9 Line 3 12" Water
N: 69801654426
E: 24968205799
Install:
1 - 12" x 8" Tee
18' LF of 16" Encasement
No Separate Pay Item
End Line 2

4+14.9 ~ Line 2
N: 69801997146
E: 24967861775
Install:
1 - 6" Valve (NW)
1 - 8" x 6" Tee
1 - 8" Valve (SE)
3' LF of 6" PVC C900 (DR-14) Water Pipe
With Class "C" Embedment
1 - F.H. as Per DWU Std Dwg*224
Remove & Deliver F.H.

4+64.8 ~ Line 2
4+69.8 ~ Line 2
Install:
1 - 8" 45° V Bend DN
1 - 8" 45° V Bend UP
See Detail

3+89.3 ~ Line 3
N: 69804021454
E: 24970524465
Install:
1 - 12" x 6" Tee
1 - 12" Valve
1 - 6" Valve (N)
1 - 6" 45° Bend
24' LF of 6" PVC Pipe
Reconnect to Ex. 6"
Water Service



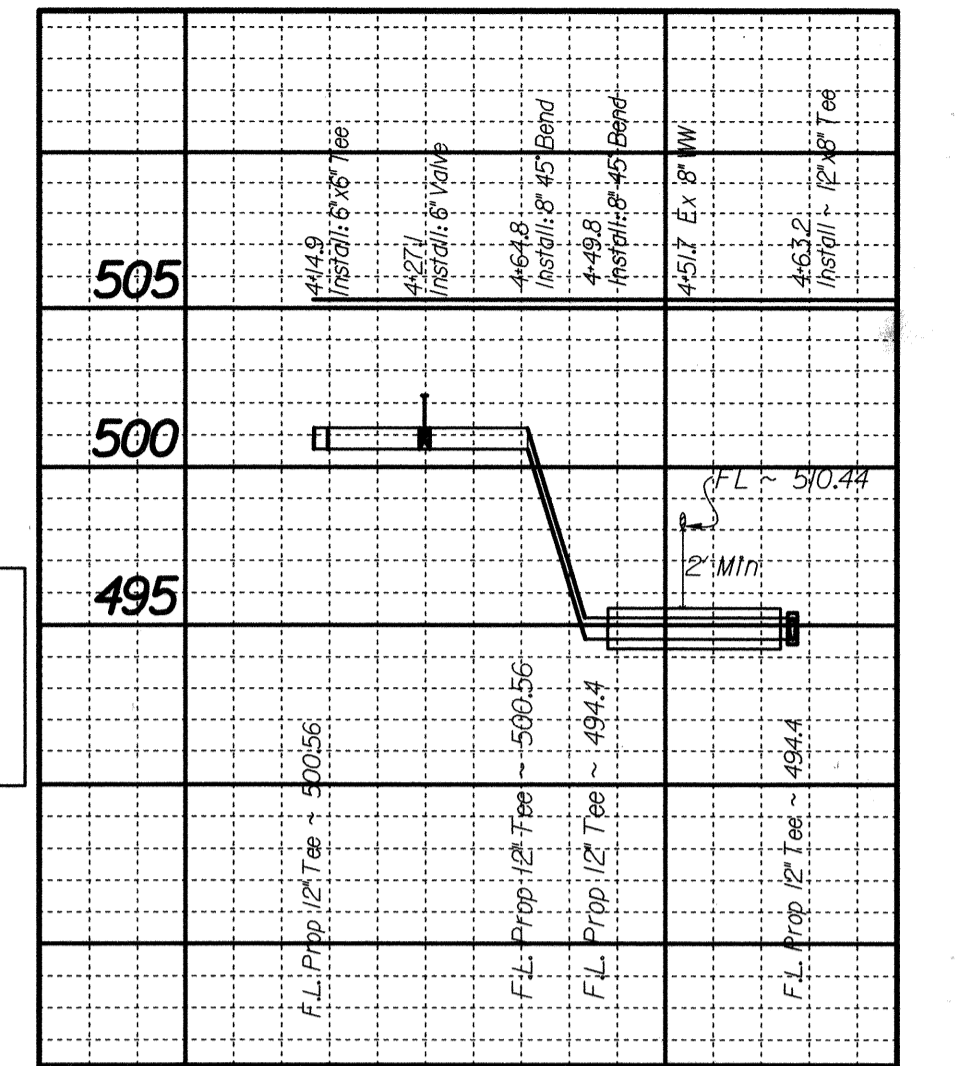
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact AT&T Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

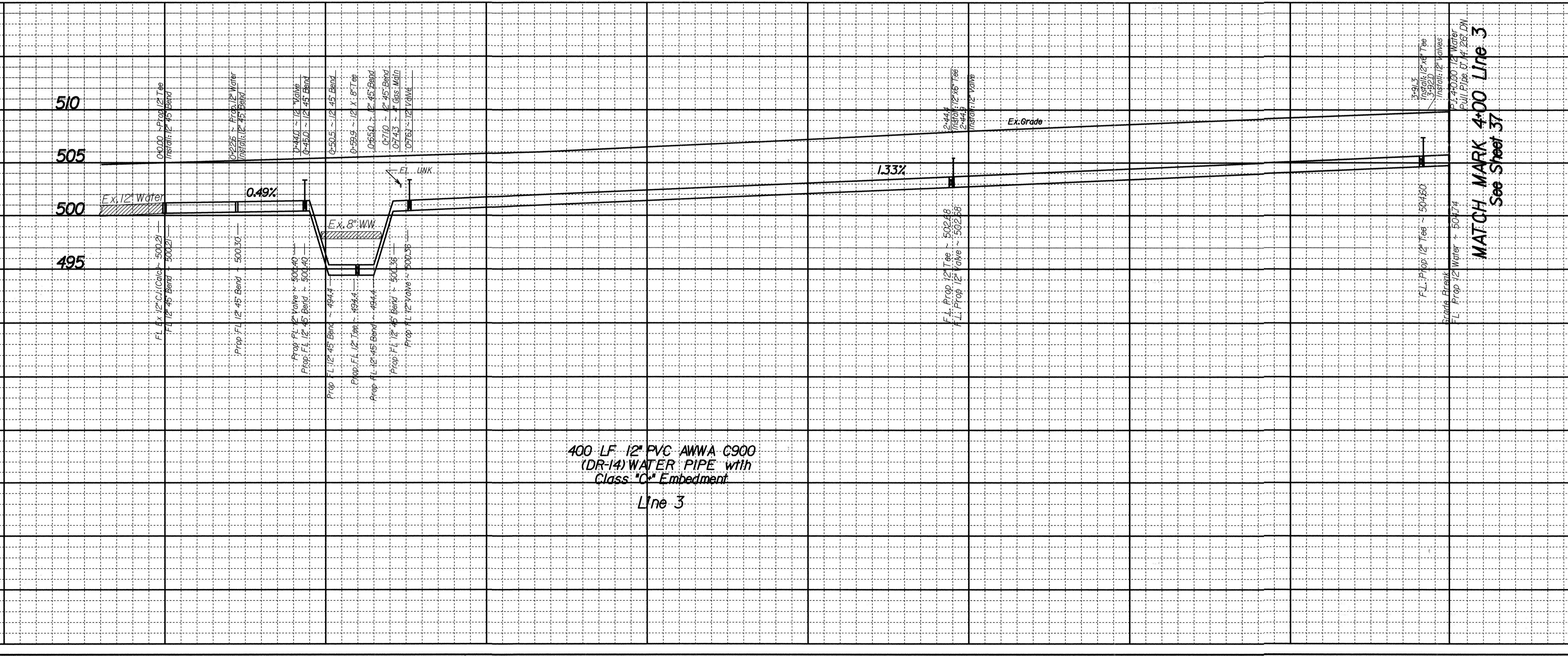
CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&S Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION
Advanced Metering Infrastructure
(AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected,
Repaired or Installed by DWU Personnel ONLY.
Contact DWU Meter Reading Operations
(MRO) 5 working days in advance.
Tel: 249675537
Email: DWUMRO@dallaswater.com

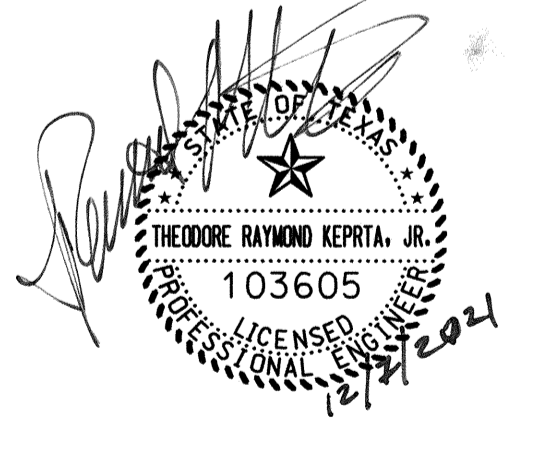


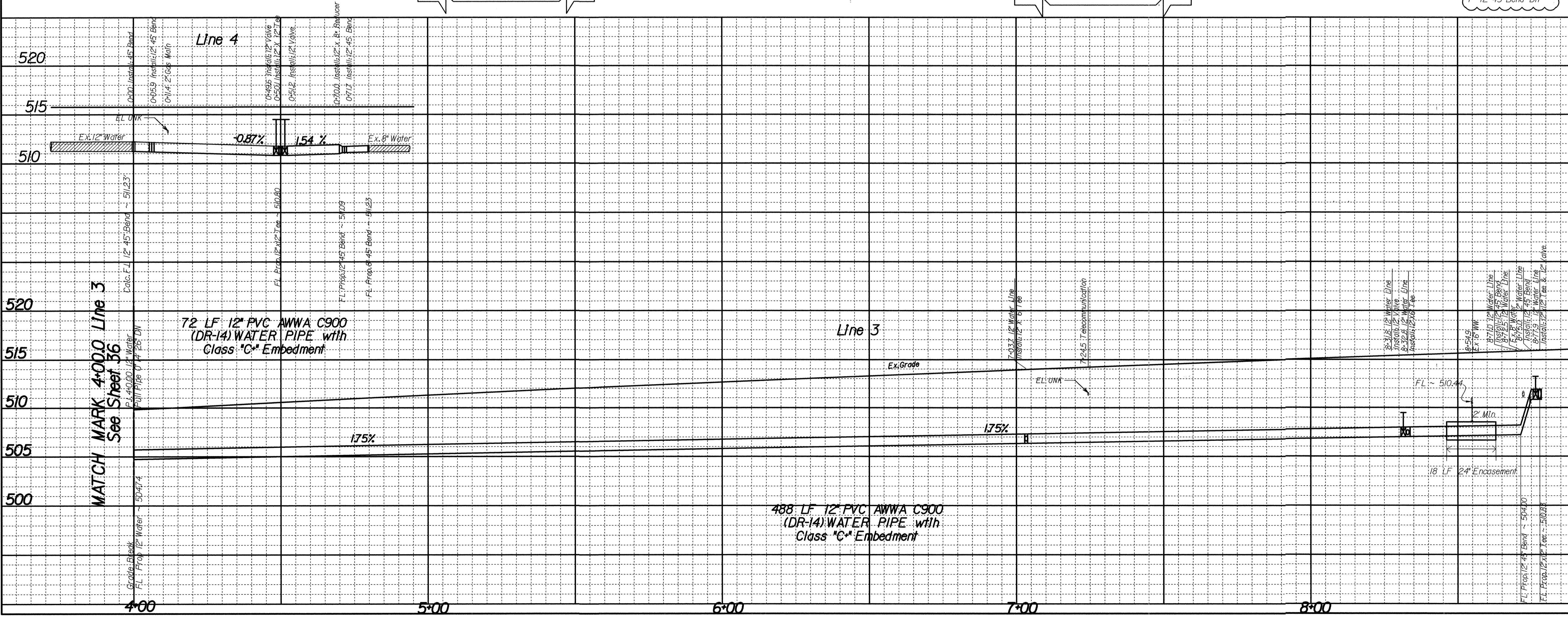
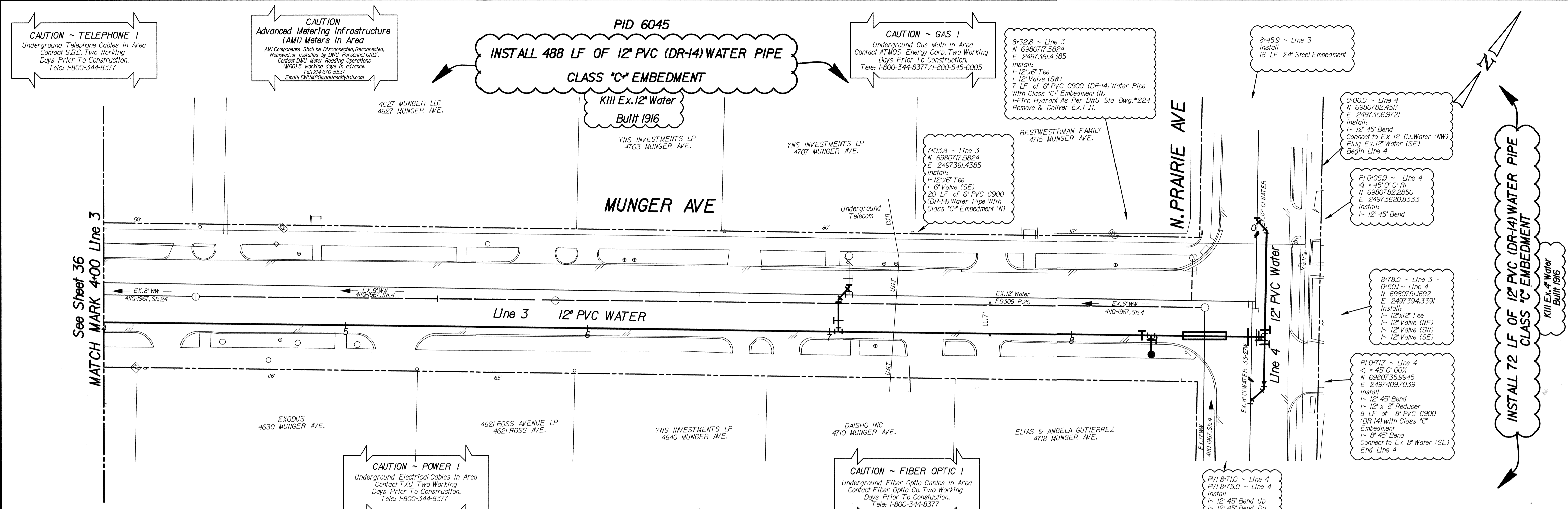
Line 2 Detail 1



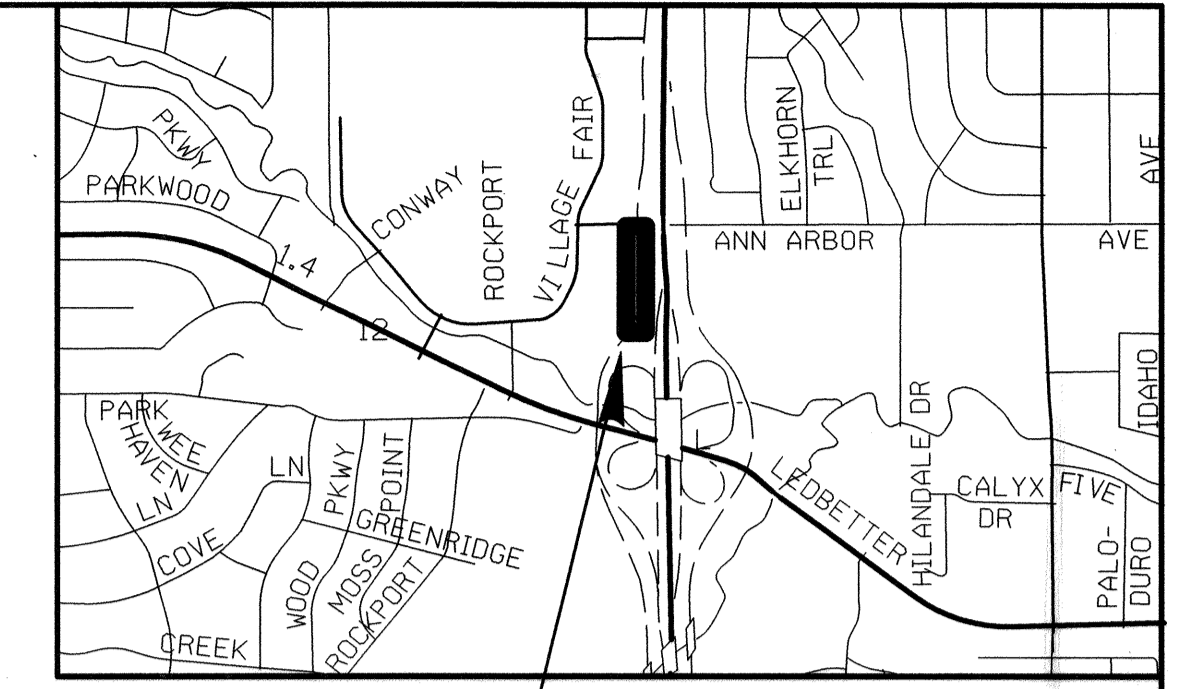
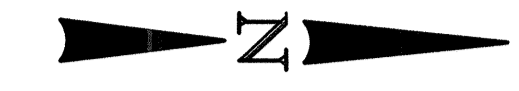
400 LF 12" PVC AWWA C900
(DR-14) WATER PIPE with
Class "C" Embedment
Line 3

REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
35-2-4		Square cut on concrete curb of storm sewer drop inlet at the northwest corner of the intersection of Kirby St & Capital Ave.			
ELEV - 509.78'					
35-2-7		Square cut on concrete curb at midpoint on the northeast corner of the intersection of Deere St. & Kirby St in front of power pole.			
ELEV - 508.71'					
Point	Northing	Eastng	Elev.	Description	
1	6979755623	2496434122	498.34	X CUT	
2	6980765293	2496734163	506.34	X CUT	
3	6980664811	2497271727	514.65	X CUT	
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 34W-27, 33W-27					
WASTEWATER 33-27 s.c. 33-27 s.d					
DWU Engineering Services					
CONTRACT NO. 21-341/342 PID: 6045 & 6046					
12" WATER MAIN					
MUNGER AVE					
ANNEX AVE TO N. PRAIRE AVE					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
C. SHIELDS	C. SHIELDS	SEPT 2021	411Q	1967	36

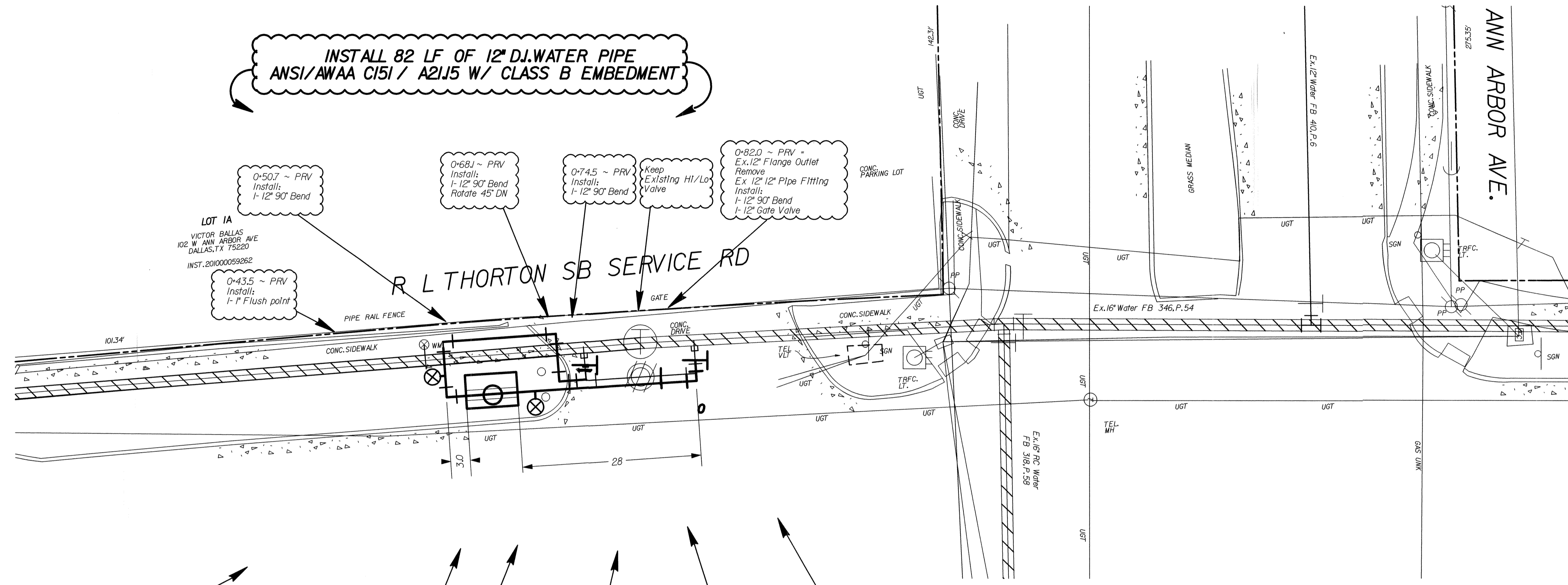




REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
35-Z-4 Square cut on concrete curb of storm sewer drop inlet at the northwest corner of the intersection of Kirby St & Capital Ave. ELEV = 509.78'					
35-Z-7 Square cut on concrete curb at midpoint on the northeast corner of the intersection of Deere St. & Kirby St in front of power pole. ELEV = 508.71'					
Point	Northing	Easting	Elev.	Description	
1	6979755.623	2496434.222	498.34	X CUT	
2	6980765.293	2496734.663	506.34	X CUT	
3	6980664.811	2497271.27	514.65	X CUT	
Horizontal Scale: 1" = 20' Vertical Scale: 1" = 6' 					
REFERENCES WATER 33-27W WASTEWATER 33-27S					
DWU Engineering Services CONTRACT NO. 21-341/342 PID: 6045 12" WATER & 8" WASTEWATER MUNGER AVE ANNEX AVE TO N. PRAIRE AVE DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
C. SHIELDS	C. SHIELDS	SEPT 2021	411Q	1967	37



**INSTALL 82 LF OF 12" D.I. WATER PIPE
ANSI/AWWA C151 / A21J5 W/ CLASS B EMBEDMENT**



0-42.0 ~ PRV
Install:
1-12" 90° Bend

0-31.0 ~ PRV
Install:
1- Precast Concrete F.M. Vault, per DWU Std Dwg 504
1-12" Ames Pressure Reducing Valve per DWU Std Dwg 241, 242, 243, 244, and 245
2- 6" Steel Guard Post As per Std Dwg 237 & 236

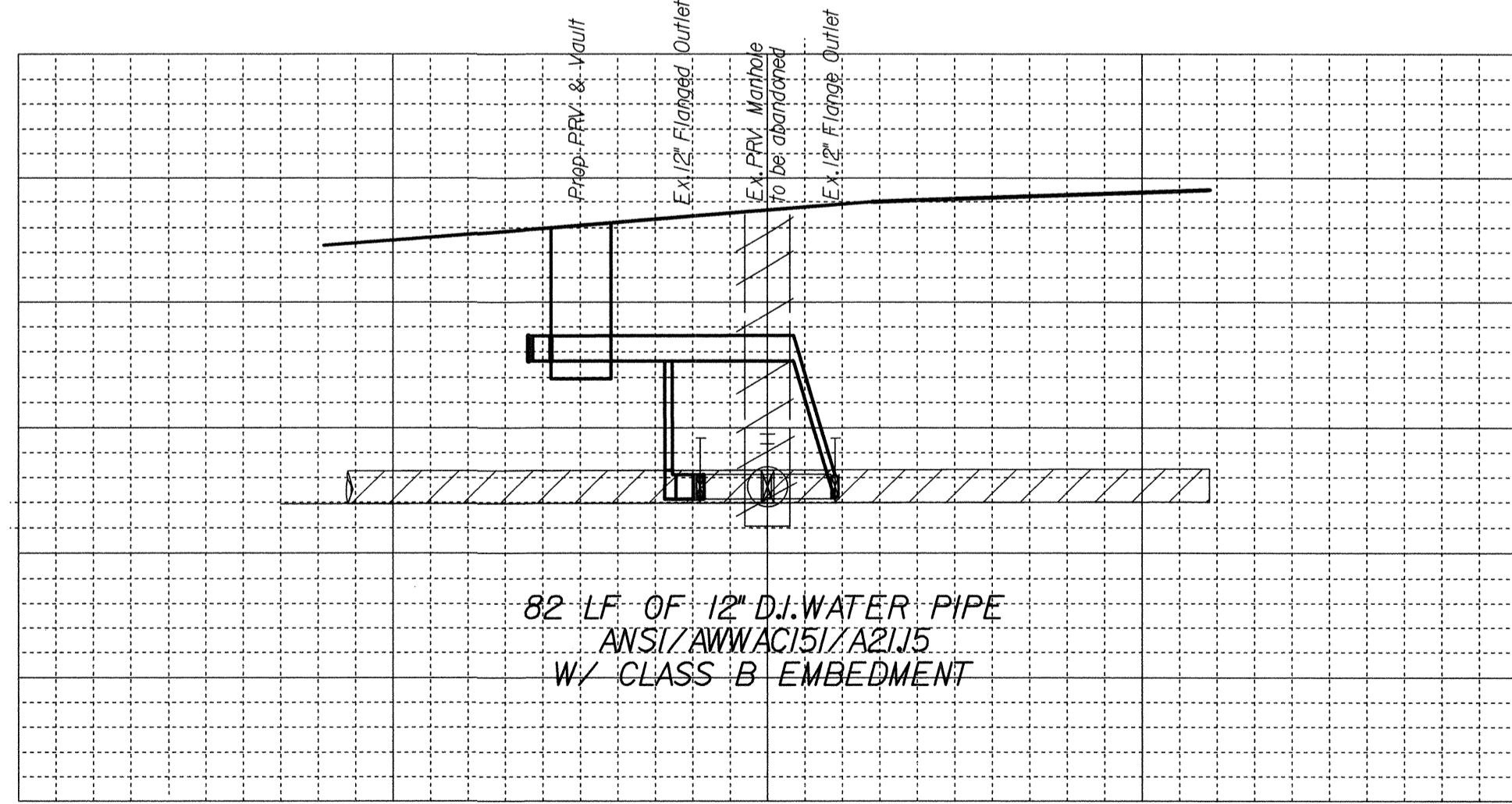
0-30.5 ~ PRV
Install:
1-1" Flush point

0-5.5 ~ PRV
Install:
1-12" 45° Bend (DN)

0-0.0 ~ PRV
Ex Flange Outlet
Install:
1-12" 90° Bend Rotate 45° UP
1-12" Gate Valve

0-11.0 ~ PRV
Remove & Deliver Ex. 12" PRV
Abandon Manhole No Separate Pay Item

1. Demolish existing PRV manhole & piping
2. Relocate new PRV and Vault in Parkway
3. Connect new PRV piping to existing valve flanges



**82 LF OF 12" D.I. WATER PIPE
ANSI/AWWA C151/A21J5
W/ CLASS B EMBEDMENT**

16" Bar Wrapped Concrete Pipe
Gifford Hill American, Inc.
Drawing #63-50-P

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area
Contact AMOS Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005

**CAUTION
Advanced Metering Infrastructure (AMI) Meters In Area**
AMI Components Shall be Disconnected, Reconnected, Removed or Installed by DMU Personnel ONLY.
Contact DMU Meter Reading Operations (MRO) 5 working days in advance.
Tel: 214-670-5537
Email: DMUMRO@dallascityhall.com

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

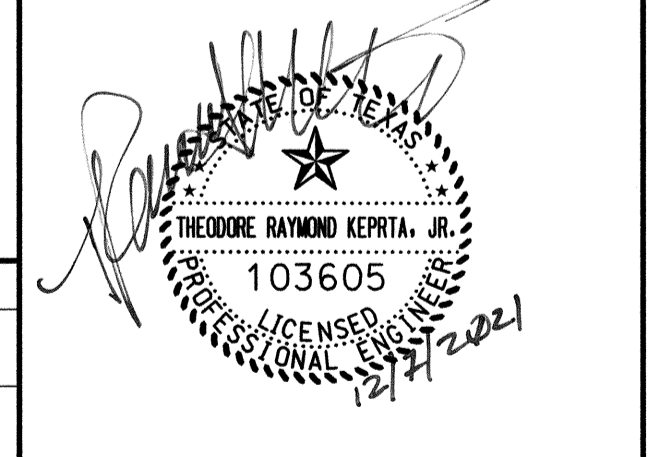
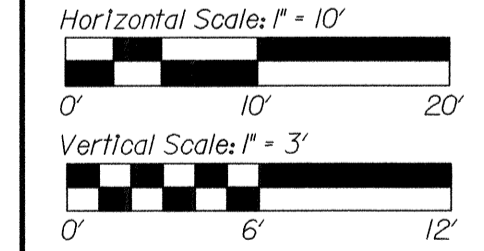
BENCHMARKS & CONTROL POINTS

BM #1 A SQUARE W/X IN CENTER OF STORM CKVERT HEADWALL .500' N OF LEDBETTER DR. NEAR THE CLOVERLEAF EXIT 35E SOUTHBOUND FROMST BOUND LEDBETTER. ELEV- 478.32'

BM #2 SQUARE W/X CUT SET ON BACK OF CURB WEST OF SOUTHBOUND SERVICE ROAD FOR 35 E. 208' N IF THE INTERSECTION WITH ANN ARBOR AVE. IN FRONT OF PP LABELED 65.1E. 349 ELEV- 520.23'

CITY BM BRONZE DISK FOUND IN CONCRETE WINGWALL AT SW CORNER OF CONCRETE BRIDGE ON W COLLECTOR ROAD ON THE S SIDE OF LEDBETTER DR AND THE W SIDE OF R L THORNTON FRWY ELEV- 501.62'

Point	Northing	Eastng	Elev.	Description
1	6938032.67	248491.1		MAG NAIL
2	6937654.65	2484064.72		X CUT
3	6938660.63	2484241.14		1/2 IRON ROD



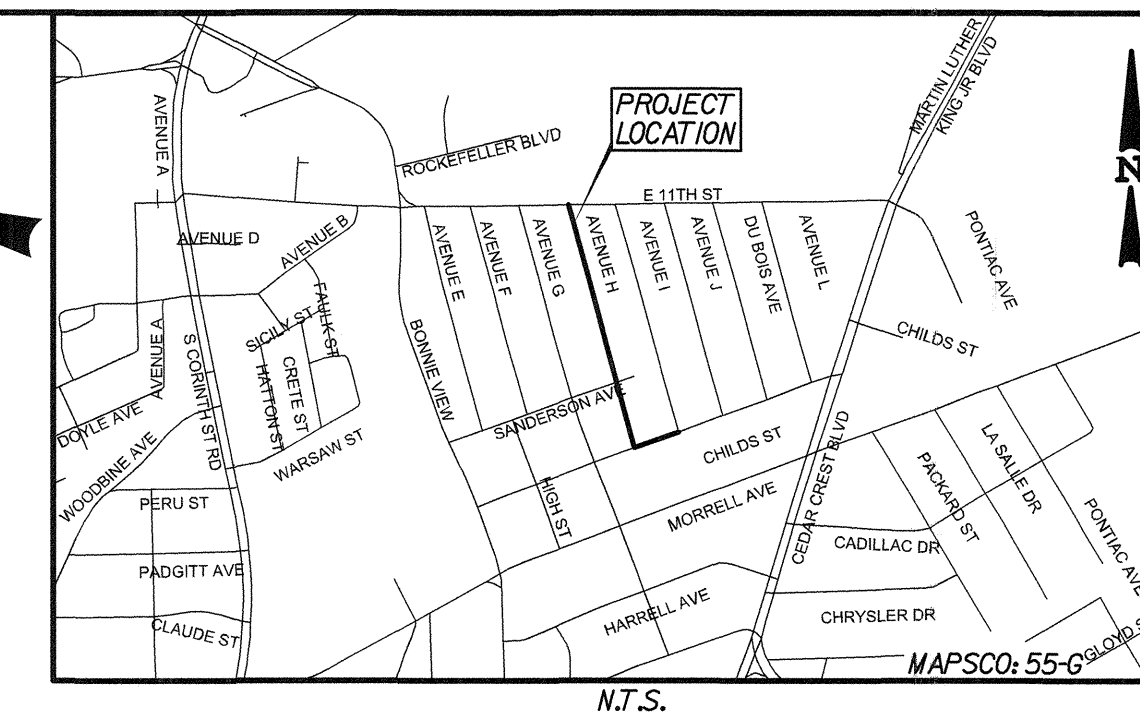
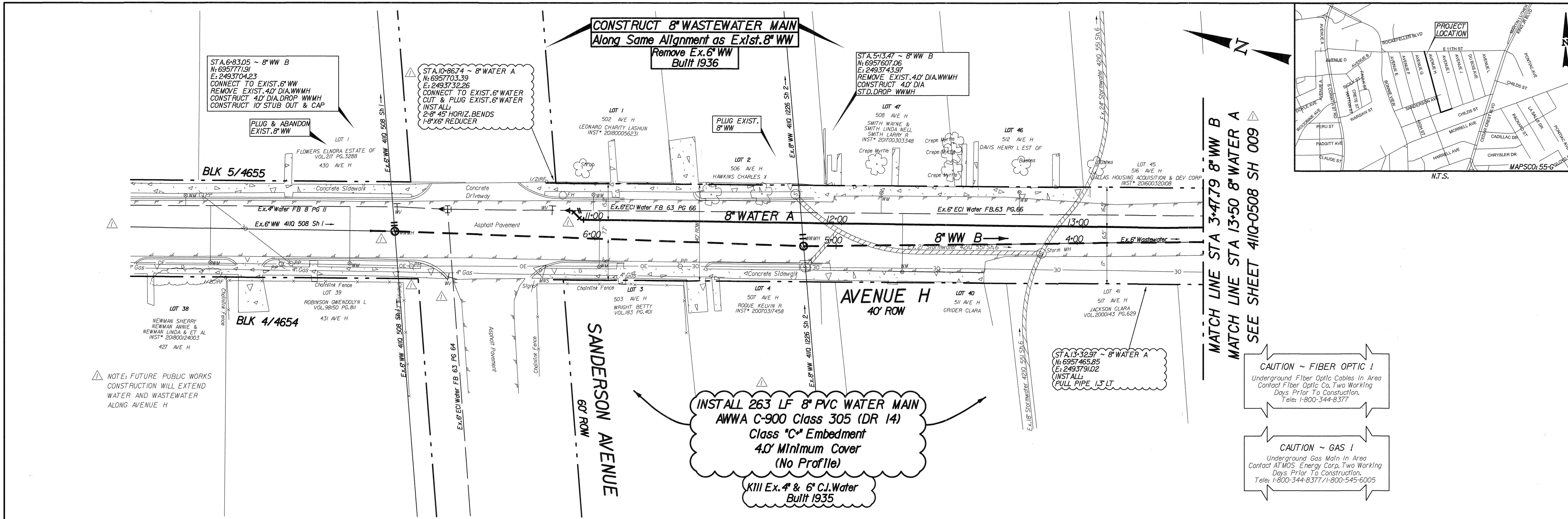
REFERENCES	
WATER	54W-22
WASTEWATER	54S-22

ENGINEERING SERVICES
CONTRACT NO. 21-341/342 | PID: 6331

PRV REPLACEMENT
R L THORNTON RD & ANN ARBOR DR.

DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

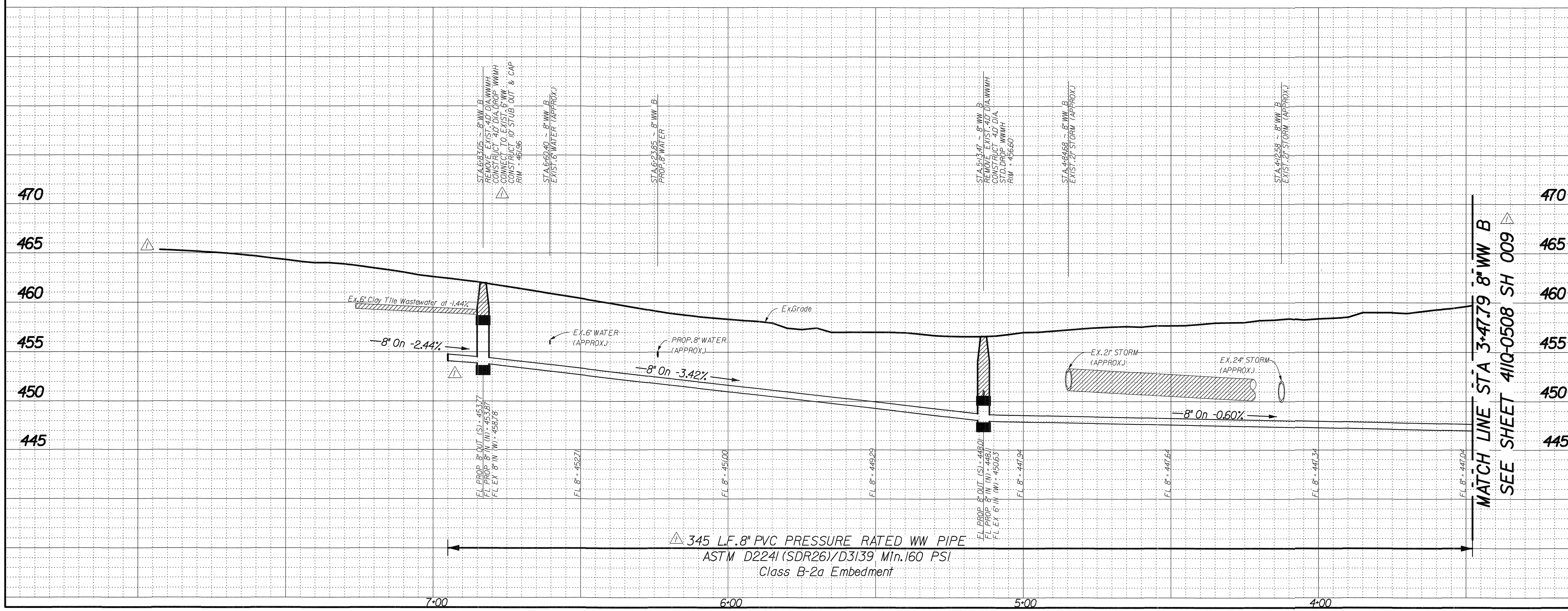
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
C.S.	C.S.	APRIL 2021	411Q	1890	128



NOTE: FUTURE PUBLIC WORKS CONSTRUCTION WILL EXTEND WATER AND WASTEWATER ALONG AVENUE H

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area Contact ATMOS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377/1-800-545-6005



REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	
1	6/7/21	REDUCED REPLACEMENT LIMITS TO COORDINATE WITH PUBLIC WORKS.	N.M.	

BENCHMARKS & CONTROL POINTS

BENCHMARK
STD WDM ON CONCRETE CURB OF STORM SEWER INLET, SOUTH WEST CORNER OF AVENUE J AND ELEVENTH ST. ELEV=433.33

BENCHMARK
STD WDM ON CONCRETE CURB OF STORM SEWER DROP INLET, SOUTH SIDE OF ELEVENTH ST. AND 60 FT WEST OF AVENUE L. ELEV=416.81

Point	Northing	Easting	Elev.	Description
9	6957709.38	2493705.02	459.37	X CUT
8	6957999.41	2493656.27	468.87	MAG NAIL
7	6956400.03	2493548.13	466.56	MAG NAIL
3179	6958705.78	2493469.31	449.39	MAG NAIL
3006	6958725.85	2493394.76	433.33	X CUT
1593	6958770.23	2494451.73	417.11	X CUT
1382	6958738.95	2494957.56	414.34	X CUT
1600	6958772.06	2495316.28	415.38	X CUT

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

REFERENCES
WATER 45-26W
WASTEWATER 45-26S

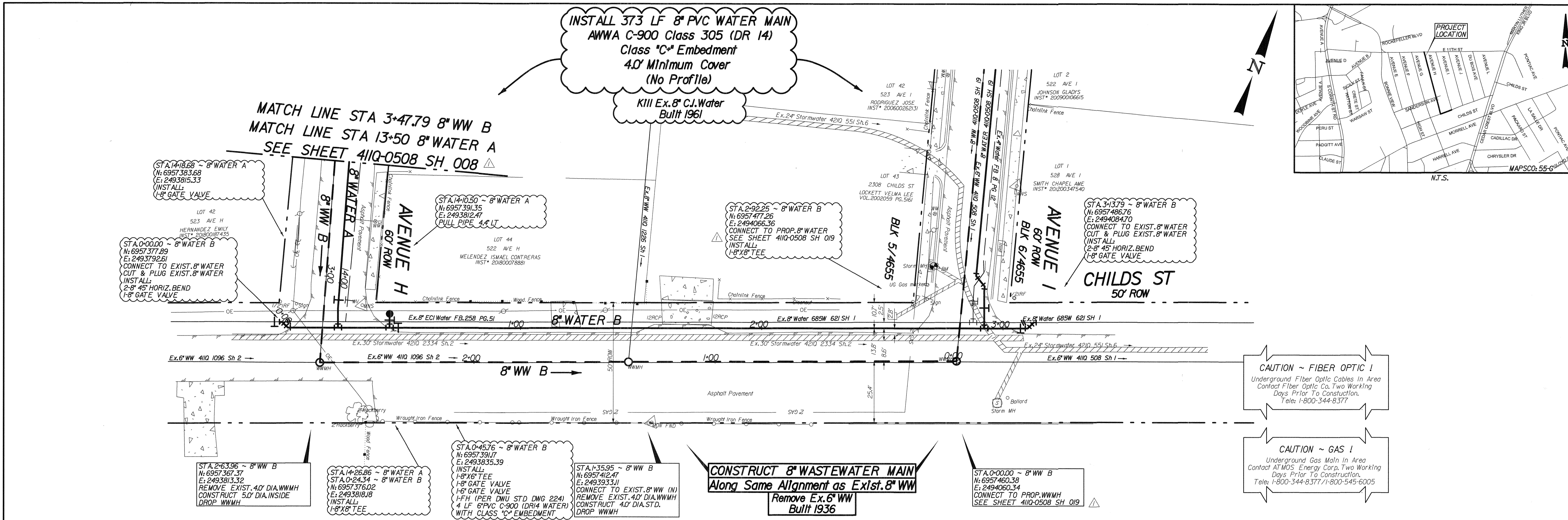
REGISTERED PROFESSIONAL ENGINEER
ANTONIO S. ROMO II
85571
Terry Romo, P.E.
6/7/21

Binkley & Barfield Consulting Engineers
1801 Gateway Blvd, Ste 101, Richardson, TX 75080
972.644.2800 | BinkleyBarfield.com

CONTRACT NO. 20-001/20-002 | PID: 3240

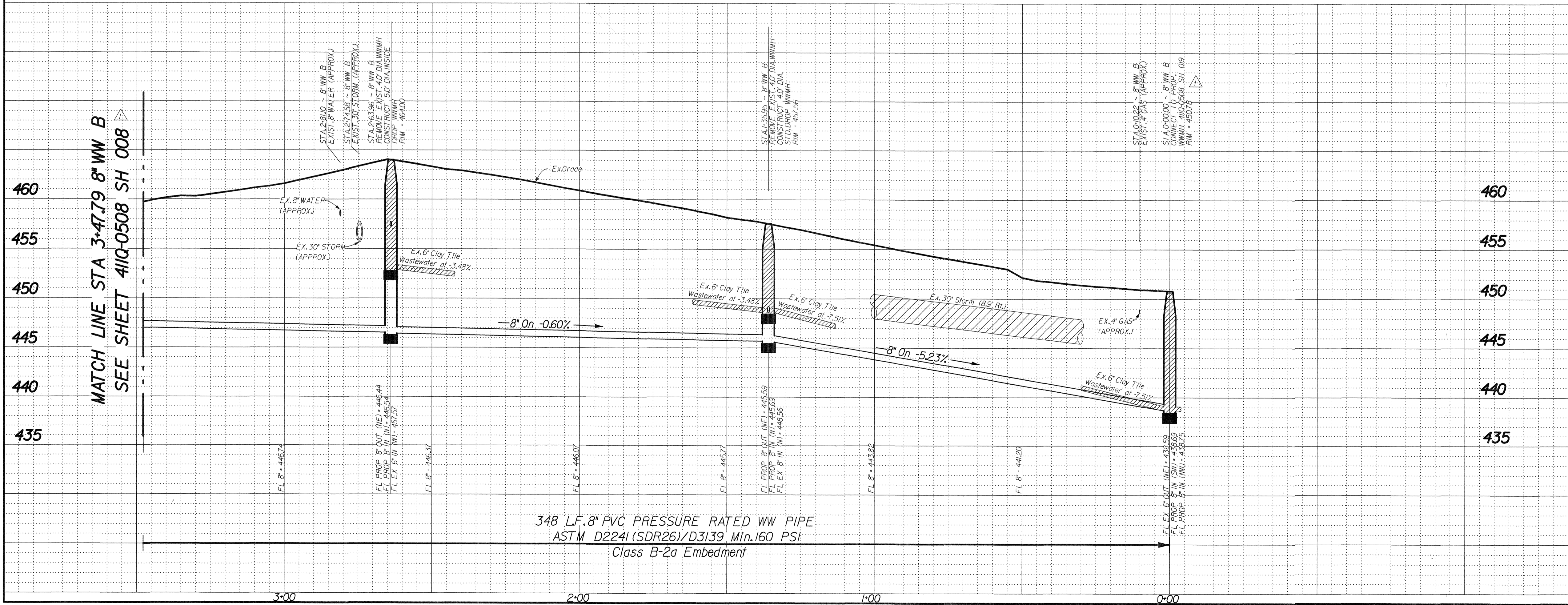
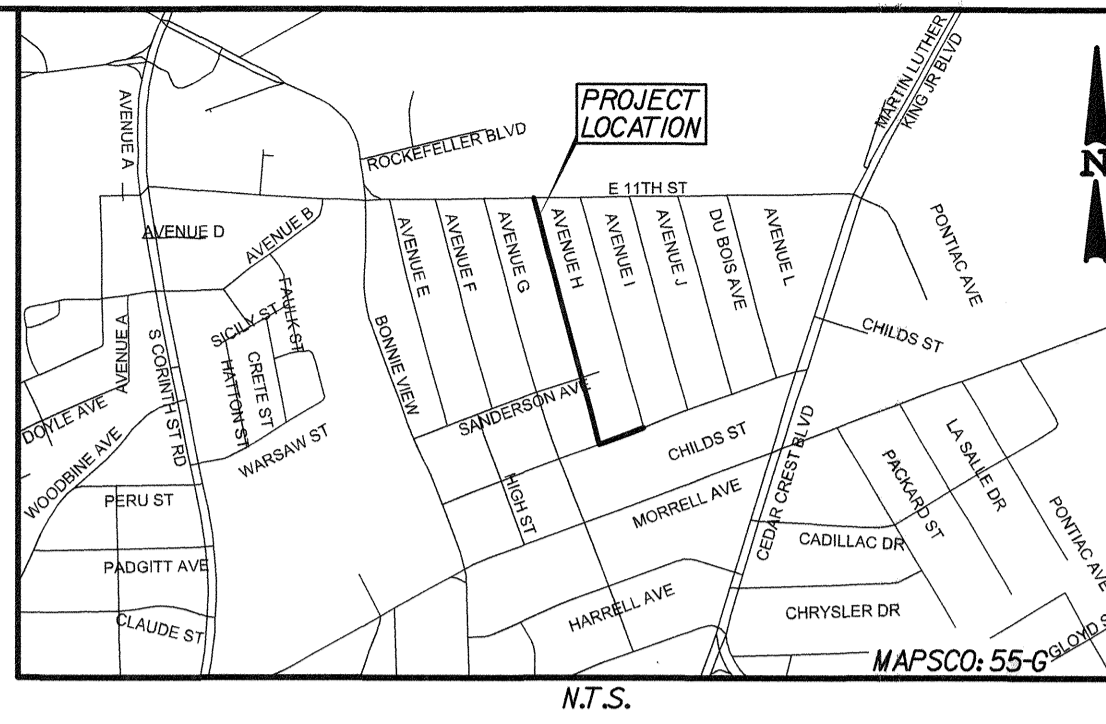
8" WATER & 8" WASTEWATER
AVENUE H
FROM AVENUE I TO SANDERSON AVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BB1	BB1	JUNE 2021	411Q	0508	008



CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT MOS. Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005



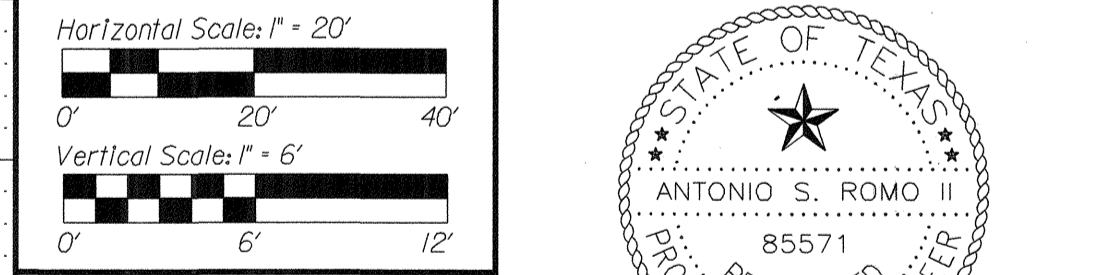
REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
1	6/7/21	REDUCED REPLACEMENT LIMITS TO COORDINATE WITH PUBLIC WORKS.	N.M.

BENCHMARKS & CONTROL POINTS

BENCHMARK
STD WDM ON CONCRETE CURB OF STORM SEWER INLET, SOUTHWEST CORNER OF AVENUE J AND ELEVENTH ST. ELEV-433.33

BENCHMARK
STD WDM ON CONCRETE CURB OF STORM SEWER DROP INLET, SOUTH SIDE OF ELEVENTH ST. AND 60 FT WEST OF AVENUE L. ELEV-416.81

Point	Northing	Easting	Elev.	Description
9	6957709.38	2493705.02	459.37	X CUT
8	6957999.41	2493656.27	468.87	MAG NAIL
7	6958400.03	2493548.13	466.56	MAG NAIL
3179	6958706.78	2493469.31	449.39	MAG NAIL
3006	6958725.85	2493947.16	433.33	X CUT
1593	6958770.23	2494451.73	417.11	X CUT
1382	6958738.95	2494957.56	414.34	X CUT
1600	6958772.06	2495316.28	415.38	X CUT



REFERENCES

WATER
45-26W

WASTEWATER
45-26S

Binkley & Barfield, Inc. | TxEng F-257
1801 Gateway Blvd, Ste 101, Richardson, TX 75080
972.644.2800 | BinkleyBarfield.com

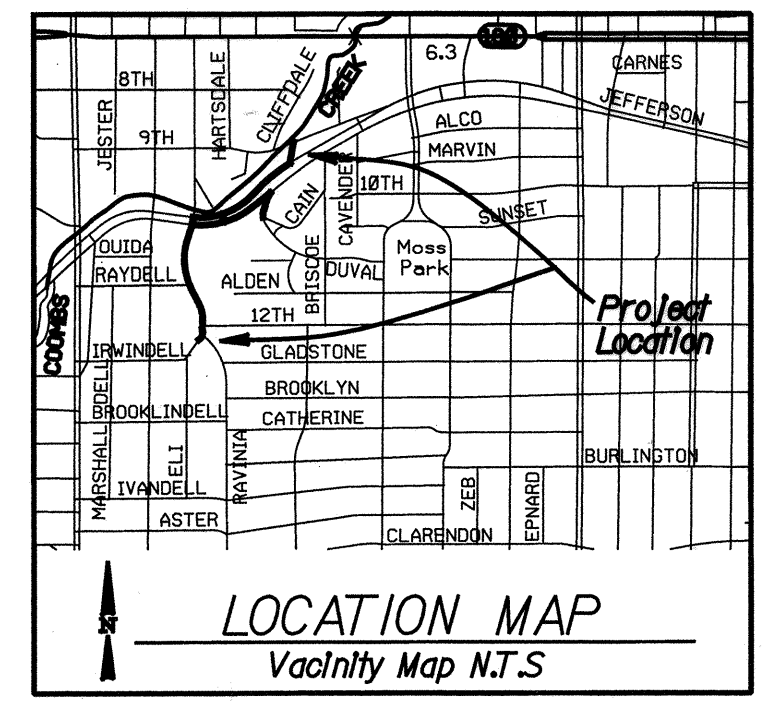
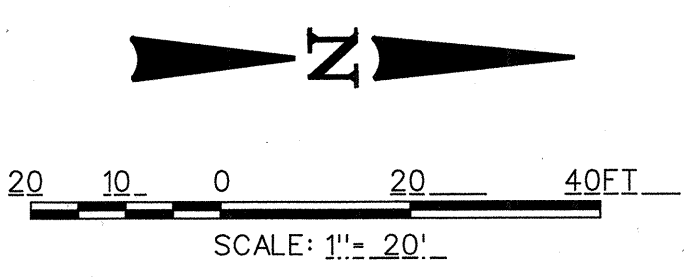
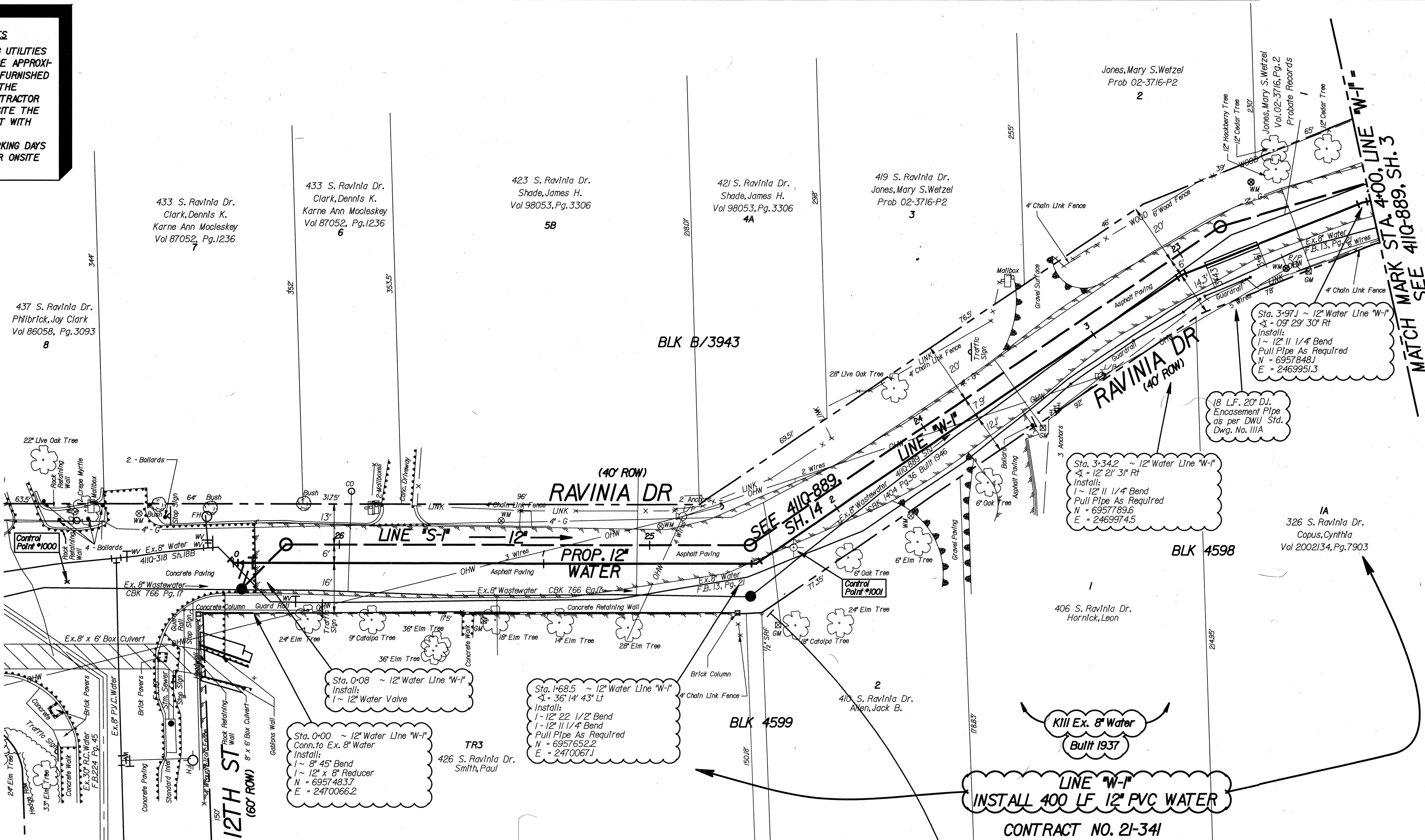
CONTRACT NO. 20-001/20-002 | PID: 3240

8" WATER & 8" WASTEWATER
AVENUE H
AVENUE I ST TO SANDERSON AVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BB1	BB1	JUNE 2021	41IQ	0508	009

UNDERGROUND UTILITIES

THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.



- BM #1 - Std. Sq. cut in center of end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

CONTROL POINTS/ONSITE BENCHMARKS

POINT	COORDINATES	DESCRIPTION
1000	N=6957430.14 E=2470072.02 ELEV.=566.00	*X' cut in conc. near CL of Ravinia Dr at intersection with 12TH St
1001	N=6957664.29 E=2470061.93 ELEV.=562.41	MAG nail w/shiner near edge of paving in front of Lot 2 Block 4599 Ravinia Dr
1002	N=6957892.66 E=2469924.90 ELEV.=561.92	MAG nail w/shiner near CL of Raydell Pl at intersection with Ravinia Rd

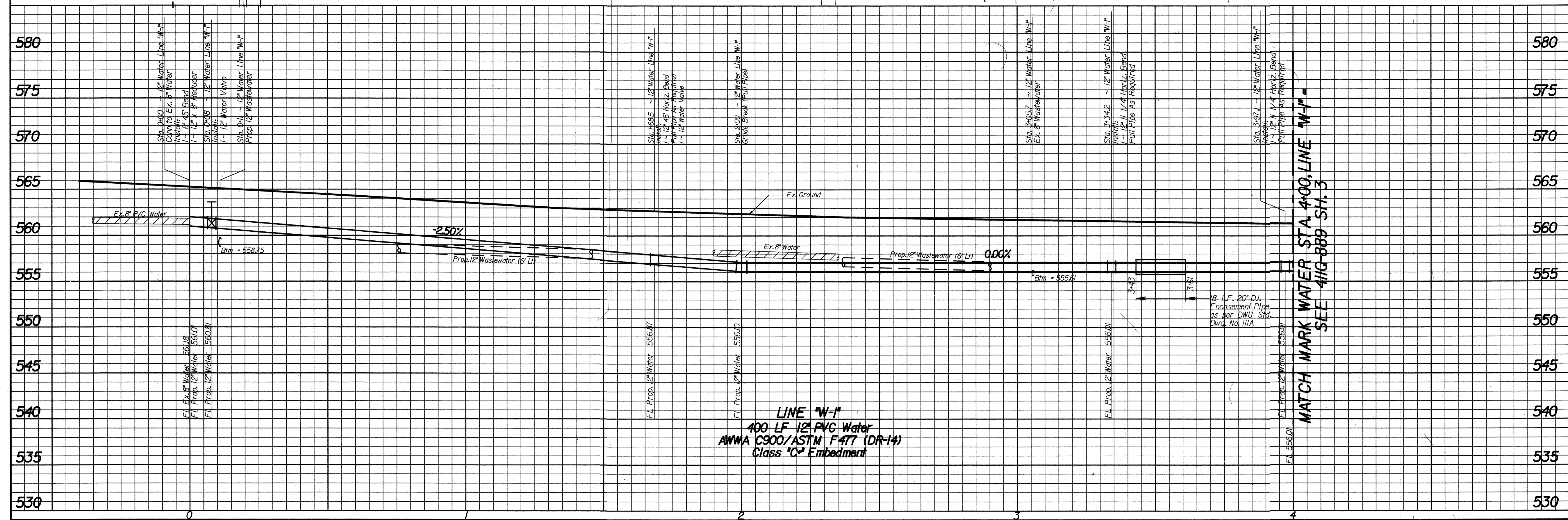
Note: 12" Wastewater Main Must Be Constructed Prior to Construction of 12" Water Main

Note: Contractor Must Determine the Location of All Wastewater Laterals Prior to Beginning Construction

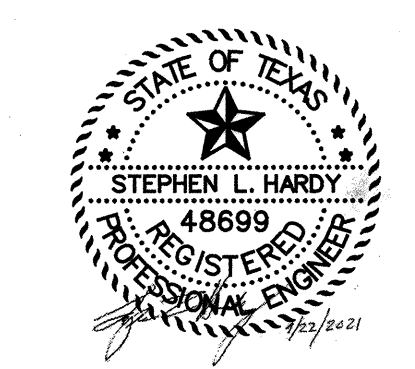
CAUTION - UNDERGROUND UTILITIES!
Call 1-800-344-8377 Two Working Days Prior to Construction For On Site Locations.

CAUTION - GAS
Existing Gas Main In Area.
Contact Onor Gas Co.
Two Working Days Prior to Construction For On Site Locations. - Ph. 1-800-344-8377

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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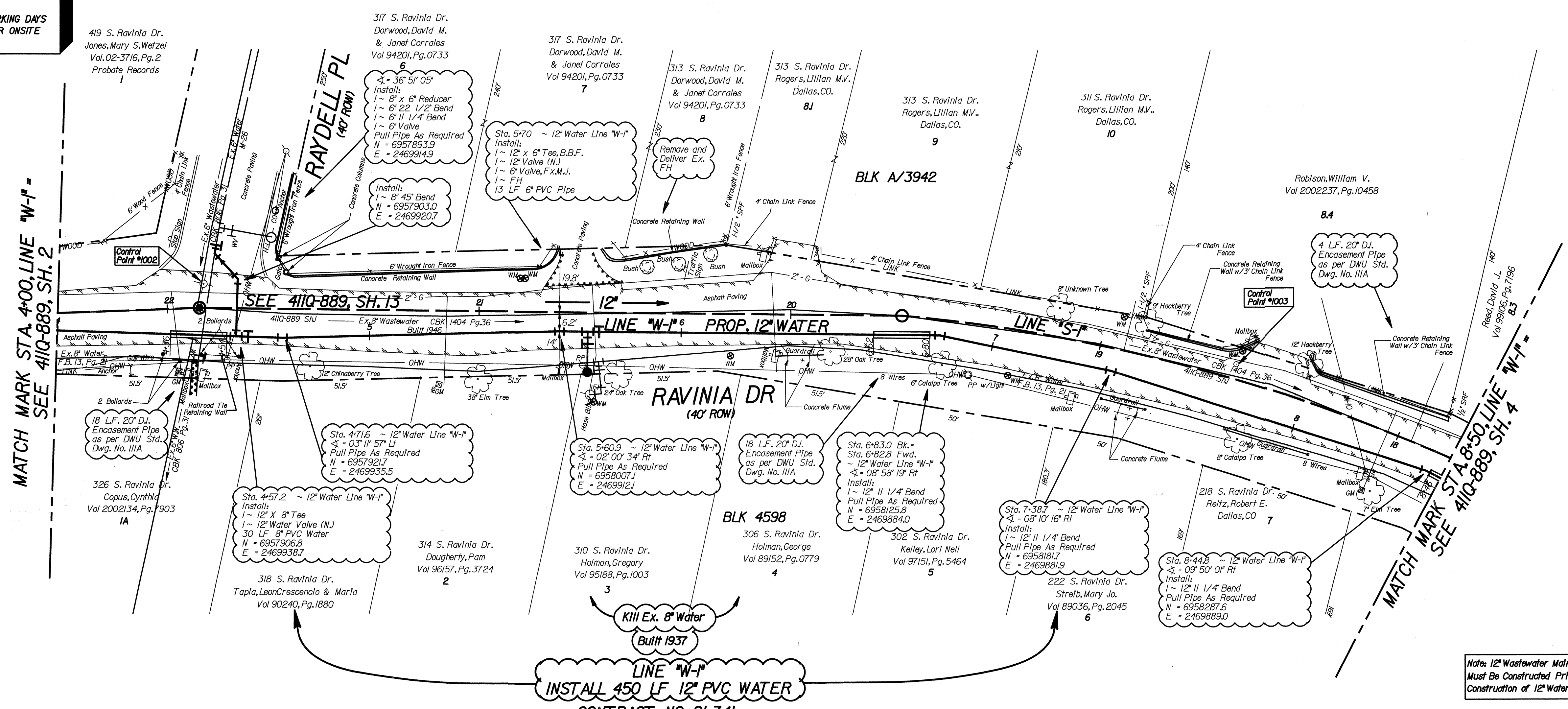
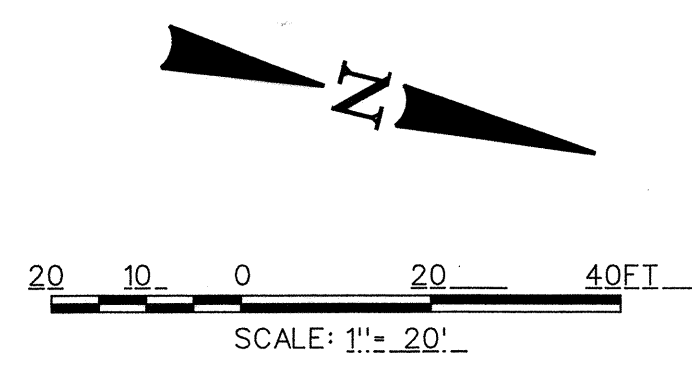


2



CONTRACT NO. 21-341						
PID 2046						
12" WATER MAIN RAVINIA DR. JEFFERSON Blvd. to 12TH St. WATER UTILITIES DEPARTMENT CITY OF DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=8' V.	PID 4468	41IQ	889

UNDERGROUND UTILITIES
 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION.
 CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ON-SITE LOCATIONS.



- BM #1 - Std. Sq. cut in center of end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37'
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

CONTROL POINTS/ONSITE BENCHMARKS

POINT	COORDINATES	DESCRIPTION
1002	N-6957892.66 E-2469924.90 ELEV.-561.92	MAG nail w/shiner near CL of Raydell Pl at intersection with Ravinia Dr
1003	N-6958220.31 E-2469870.14 ELEV.-553.65	MAG Nail w/shiner near edge paving in front Lot B.4 Block A/3942 Ravinia Dr
1004	N-6958553.65 E-2469906.84 ELEV.-542.81	1/2" SRS w/Red cap on median near intersection Jefferson and Ravinia Dr

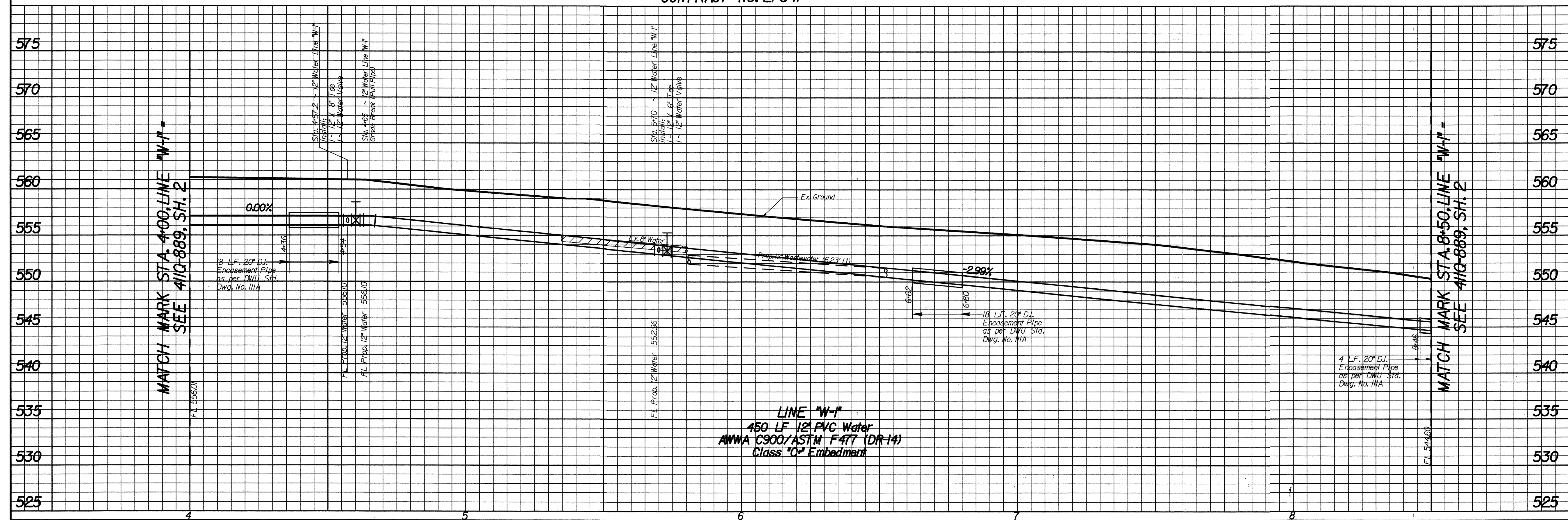
CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main In Area. Contact Onco Gas Co. Two Working Days Prior to Construction For On Site Locations. - Ph. 1-800-344-8377

Note: 12" Wastewater Main Must Be Constructed Prior to Construction of 12" Water Main

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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INSTALL 450 LF 12" PVC WATER
 CONTRACT NO. 21-341



3

CONTRACT NO. 21-341

STATE OF TEXAS
 REGISTERED PROFESSIONAL ENGINEER
 STEPHEN L. HARDY
 48699

AZAB, LLC
 1355 MCCREE ROAD
 DALLAS, TEXAS 75238
 (214) 341-9900

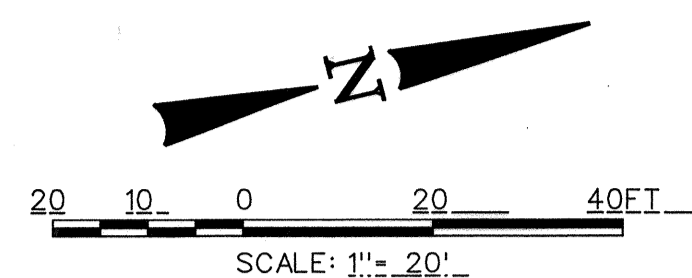
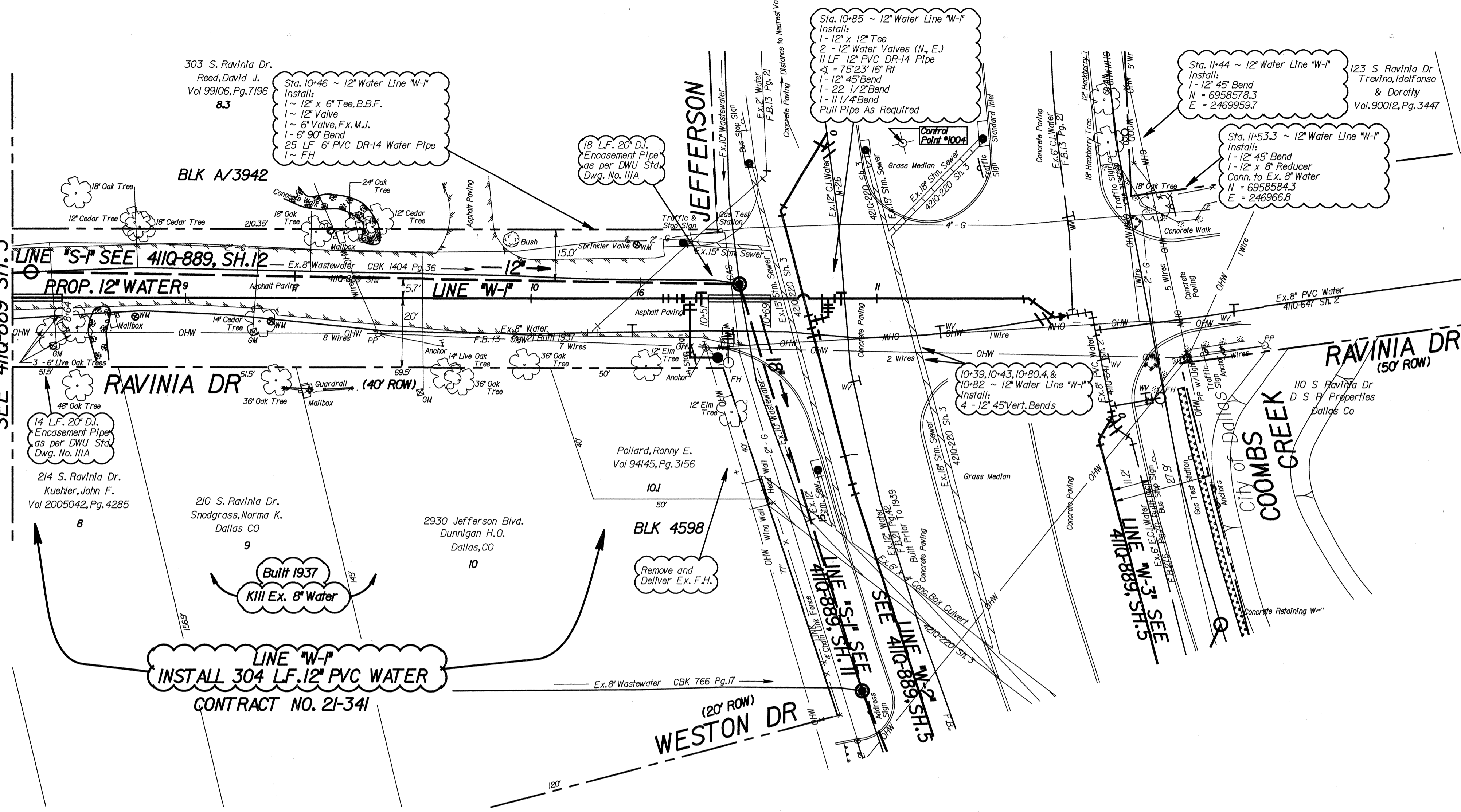
12" WATER MAIN
 RAVINIA DR.
 JEFFERSON Blvd. to 12TH St.
 WATER UTILITIES DEPARTMENT
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 4468	411Q	889

UNDERGROUND UTILITIES
 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ON-SITE LOCATIONS.

Note: 12" Wastewater Main Must Be Constructed Prior to Construction of 12" Water Main

MATCH MARK WATER STA. 8+50. LINE "W-1" - SEE 41Q-889 SH. 3



- BM #1 - Std. Sq. cut in center on end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

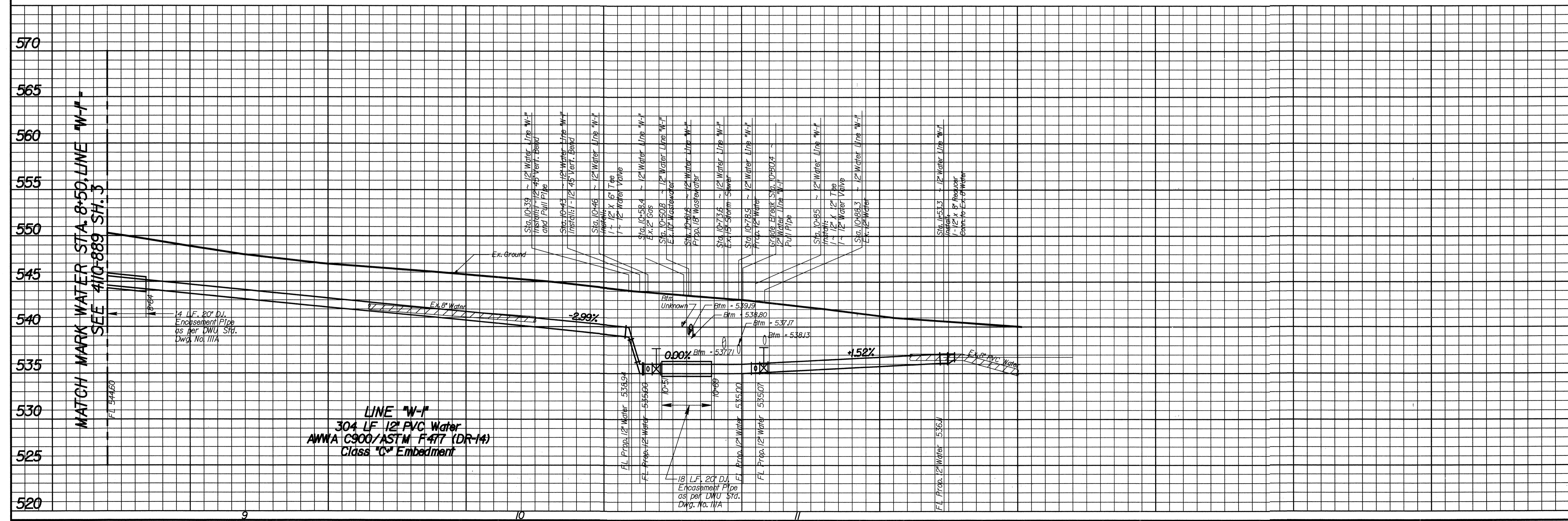
CONTROL POINTS/ONSITE BENCHMARKS

POINT	COORDINATES	DESCRIPTION
1003	N=6958220.31 E=2469870.14 ELEV.=553.65	MAG Wall w/shiner near edge paving in front Lot B.4 Block A/3942 Ravinia Dr
1004	N=6958553.65 E=2469906.84 ELEV.=542.81	1/2" SRS w/Red cap on median near intersection Jefferson and Ravinia Dr
1005	N=69588647.95 E=2470269.06 ELEV.=539.23	1/2" SRS w/Red cap on curb in front House #2921 Block A/4602 Jefferson Blvd

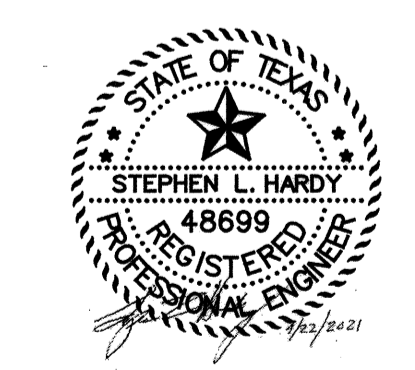
CAUTION - UNDERGROUND UTILITIES !
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main In Area. Contact Onco Gas Co. Two Working Days Prior to Construction For On Site Locations. - Ph. 1-800-344-8377

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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4



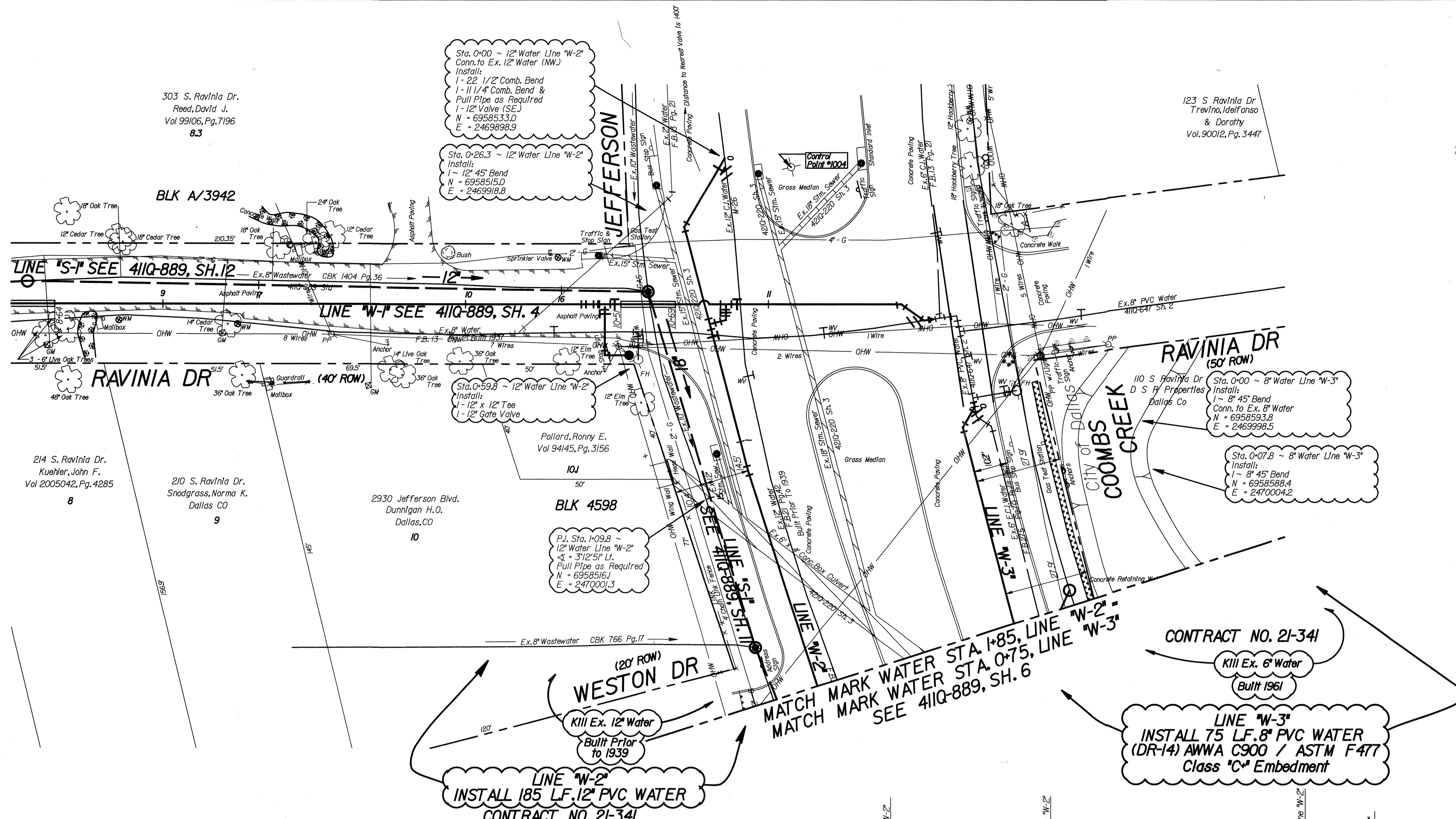
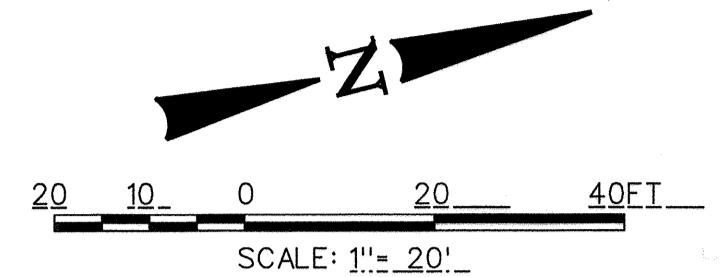
CONTRACT NO. 21-341



8" & 12" WATER MAIN						
RAVINIA DR.						
JEFFERSON Blvd. to 12TH St.						
WATER UTILITIES DEPARTMENT						
CITY OF DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 4468	41IQ	889

UNDERGROUND UTILITIES
 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

303 S. Ravinia Dr.
 Reed, David J.
 Vol 99106, Pg. 7196
 83



Note: 12" Wastewater Main Must Be Constructed Prior to Construction of 12" Water Main

- BM #1 - Std. Sq. cut in center of end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

CONTROL POINTS/ONSITE BENCHMARKS

POINT	COORDINATES	DESCRIPTION
1003	N=6958220.31 E=2469870.14 ELEV.=553.65	MAG Nail w/shiner near edge paving in front Lot 8.4 Block A/3942 Ravinia Dr
1004	N=6958553.65 E=2469906.84 ELEV.=542.81	1/2" SRS w/Red cap on median near intersection Jefferson and Ravinia Dr
1005	N=6958647.95 E=2470269.06 ELEV.=539.23	1/2" SRS w/Red cap on curb in front House #2921 Block A/4602 Jefferson Blvd

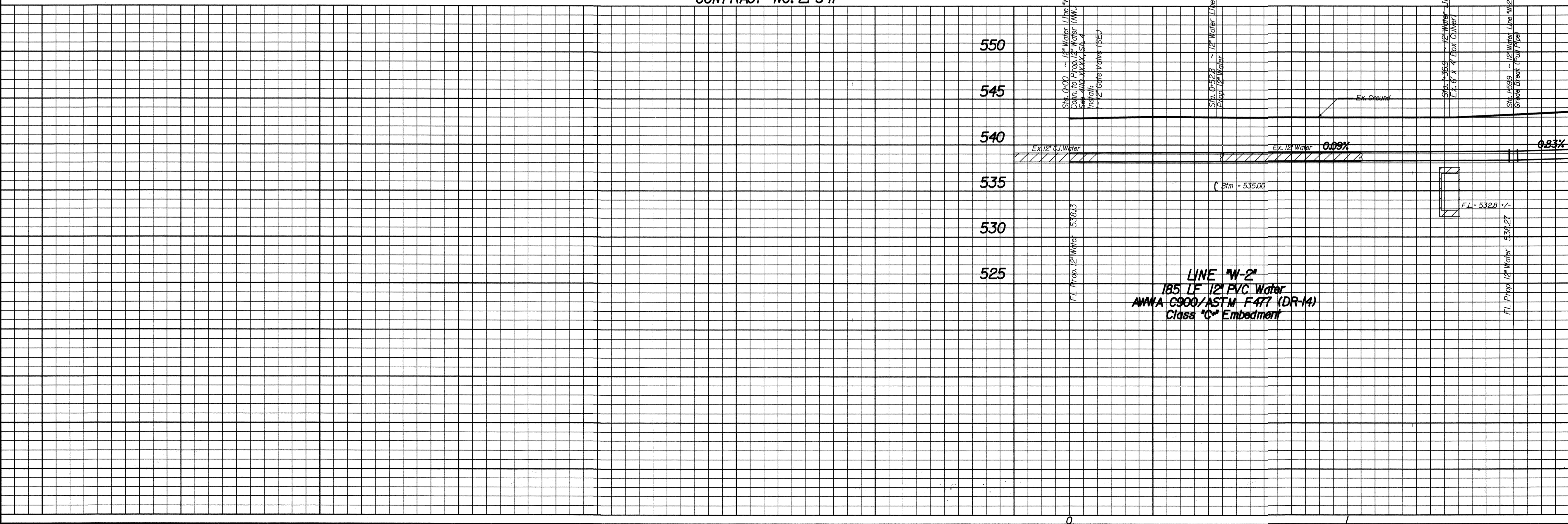
CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main In Area. Contact Onor Gas Co. Two Working Days Prior to Construction For On Site Locations. - Ph. 1-800-344-8377

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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INSTALL 185 LF 12" PVC WATER
 CONTRACT NO. 21-341

INSTALL 75 LF 8" PVC WATER
 (DR-14) AWWA C900 / ASTM F477
 Class "C" Embedment



MATCH MARK WATER STA. 1+85.5 LINE W-2
 MATCH MARK WATER STA. 0+75.5 LINE W-3
 SEE 411Q-889 SH. 6

5



CONTRACT NO. 21-341

AZ&B AZ&B, LLC
 TYPE FROM REG. #4-10088
 1355 MCCREE ROAD
 DALLAS, TEXAS 75228
 (214) 341-9900

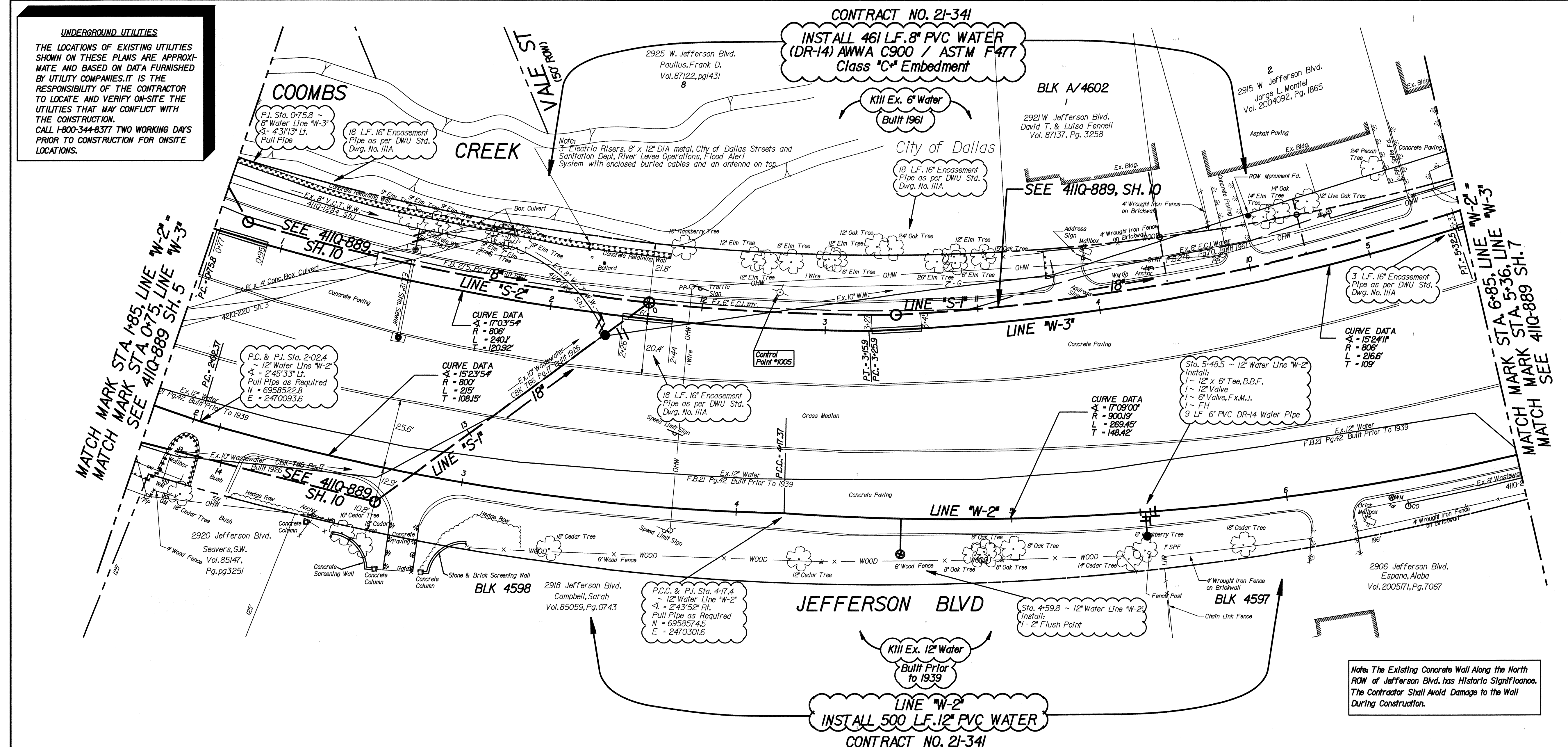
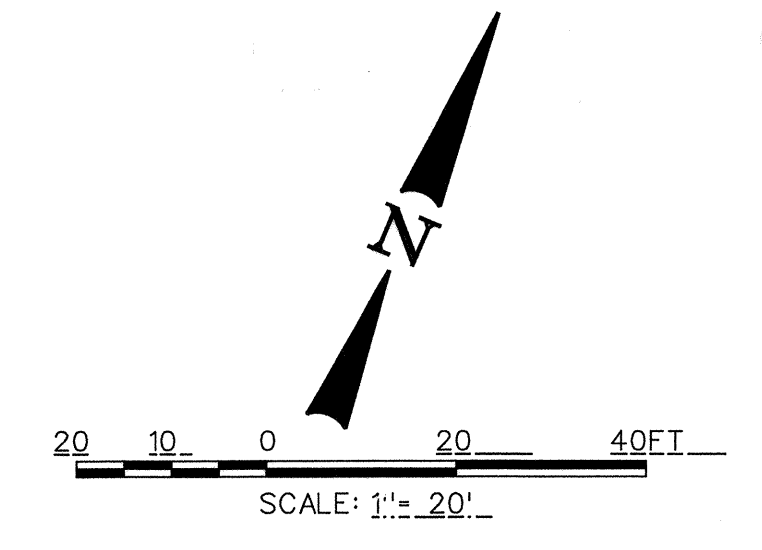
8" & 12" WATER MAIN
 JEFFERSON BLVD.
 Ravinia Dr. to W. of Duval Dr.
 WATER UTILITIES DEPARTMENT
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 2016	411Q	889

UNDERGROUND UTILITIES
 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ON-SITE LOCATIONS.

CONTRACT NO. 21-341
INSTALL 461 LF. 8" PVC WATER (DR-14) AWWA C900 / ASTM F477 Class "C" Embedment

INSTALL 500 LF. 12" PVC WATER (DR-14) AWWA C900 / ASTM F477 (DR-14) Class "C" Embedment



- BM #1 - Std. Sq. cut in center of end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

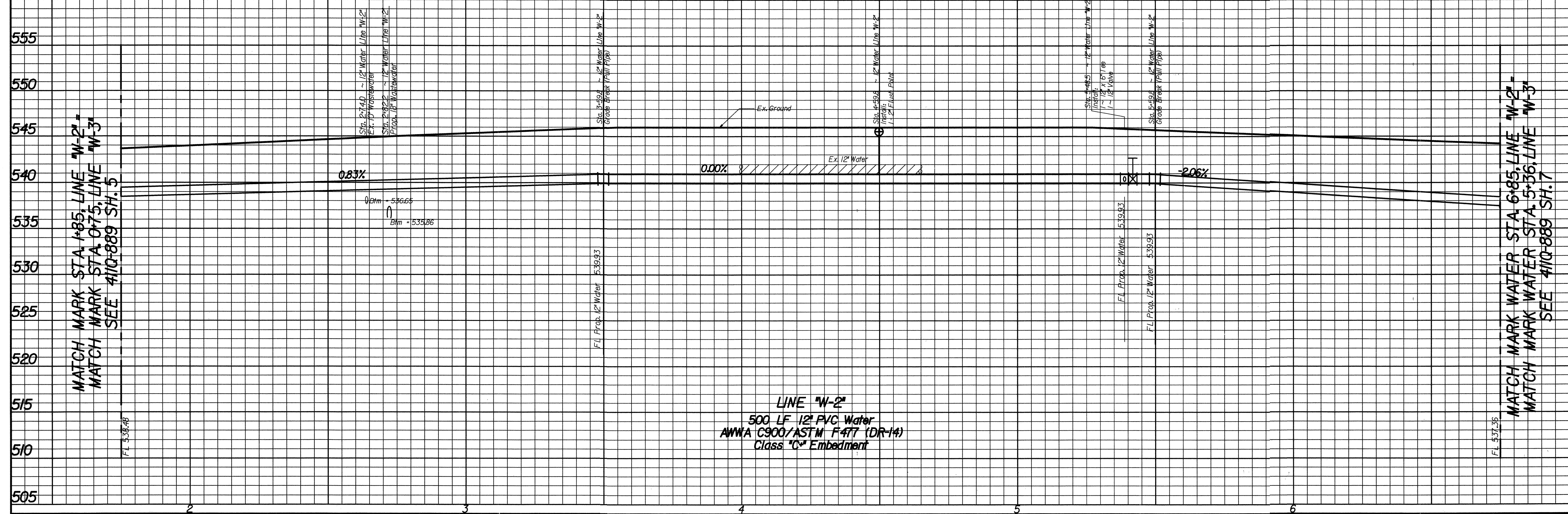
CONTROL POINTS/ONSITE BENCHMARKS

POINT	COORDINATES	DESCRIPTION
1004	N=6958553.65 E=2469906.84 ELEV.=542.81	1/2" SRS w/Red cap on median near intersection Jefferson and Ravinia Dr
1005	N=6958647.95 E=2470269.06 ELEV.=539.23	1/2" SRS w/Red cap on curb in front house #2921 Block A/4602 Jefferson Blvd
1006	N=6958838.05 E=2470735.86 ELEV.=547.90	1/2" SRS w/Red cap on curb at intersection Jefferson Blvd & Duvall Dr

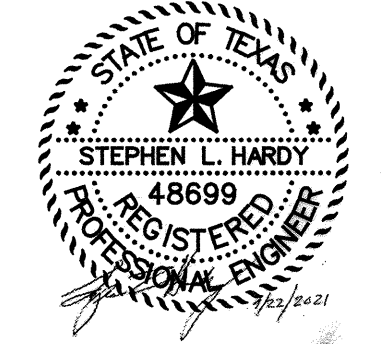
CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main In Area. Contact Onco Gas Co. Two Working Days Prior to Construction For On Site Locations, - Ph: 1-800-344-8377

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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6



CONTRACT NO. 21-341

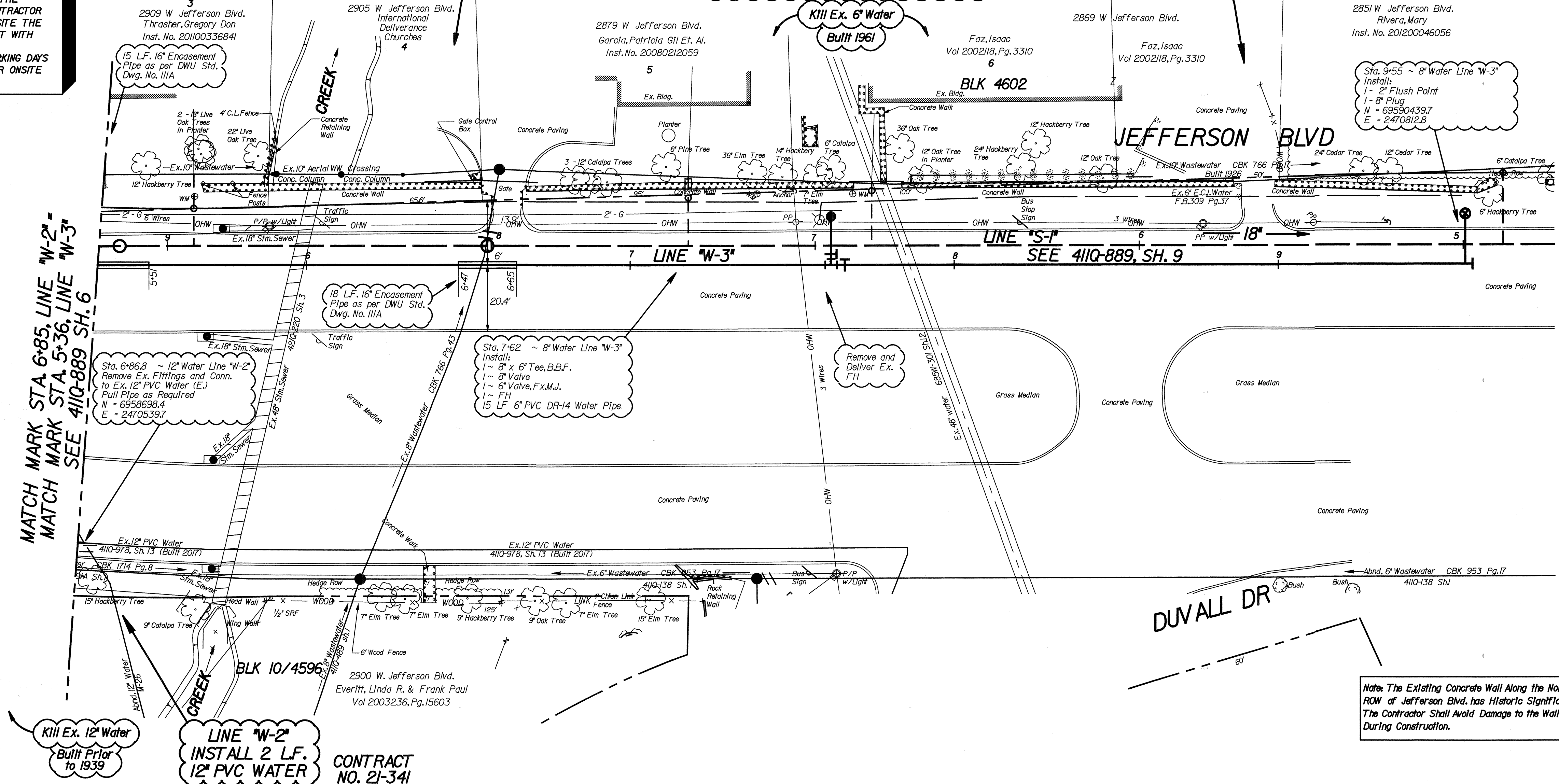
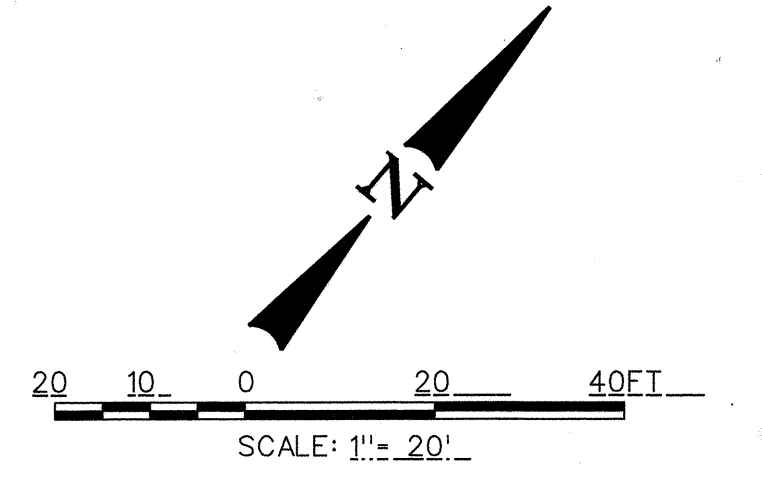
A&B AD&B, LLC
 13555 MCCREE ROAD
 DALLAS, TEXAS 75238
 (214) 341-9900

8" & 12" WATER MAIN
JEFFERSON BLVD.
RAVINIA Dr. to W. of DUVALL Dr.
WATER UTILITIES DEPARTMENT
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 2044	411Q	889

CONTRACT NO. 21-341
 INSTALL 419 LF. 8" PVC WATER
 (DR-14) AWWA C900 / ASTM F477
 Class "C" Embedment

UNDERGROUND UTILITIES
 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.



- BM #1 - Std. Sq. cut in center of end of curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

CONTROL POINTS/ONSITE BENCHMARKS

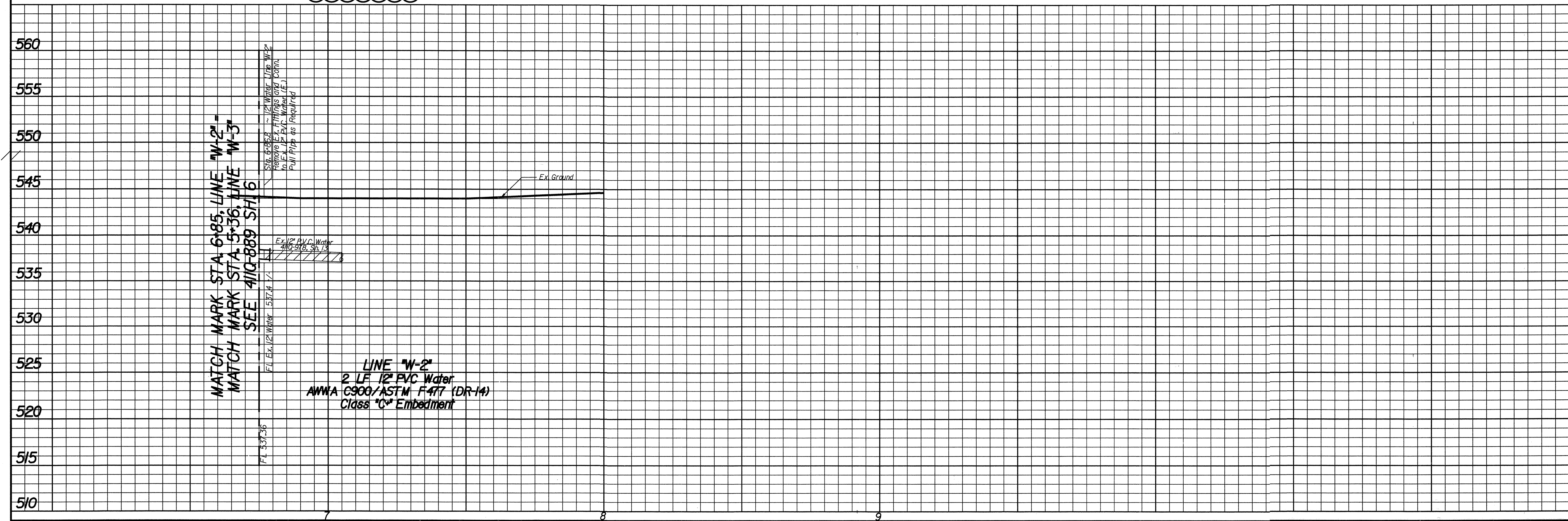
POINT	COORDINATES	DESCRIPTION
1005	N=6958647.95 E=2470269.06 ELEV.=539.23	1/2" SRS w/Red cap on curb in front of House #2921 Block A/4602 Jefferson Blvd
1006	N=6958838.05 E=2470735.86 ELEV.=547.90	1/2" SRS w/Red cap on curb at intersection Jefferson Blvd & Duvall Dr
1007	N=6959243.65 E=2471005.25 ELEV.=548.78	*X cut in conc. in front of lot 3 Block 4602 Jefferson Blvd

CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

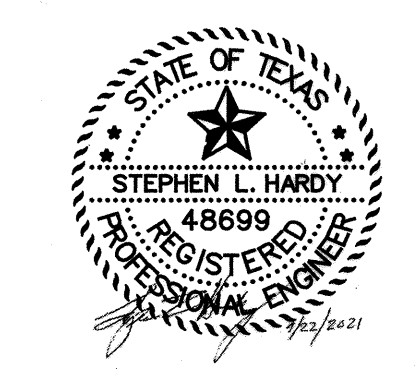
CAUTION - GAS
 Existing Gas Main In Area. Contact Oncof Gas Co. Two Working Days Prior to Construction For On Site Locations. ~ Ph. 1-800-344-8377

Note: The Existing Concrete Wall Along the North ROW of Jefferson Blvd. has Historic Significance. The Contractor Shall Avoid Damage to the Wall During Construction.

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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7



CONTRACT NO. 21-341



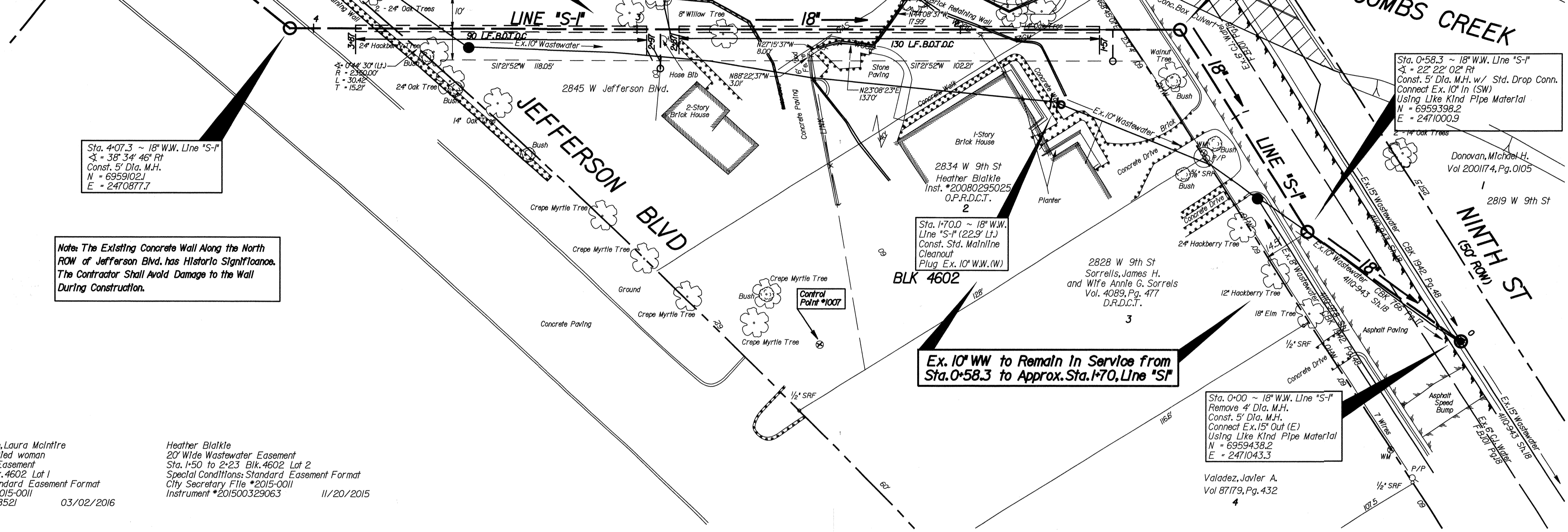
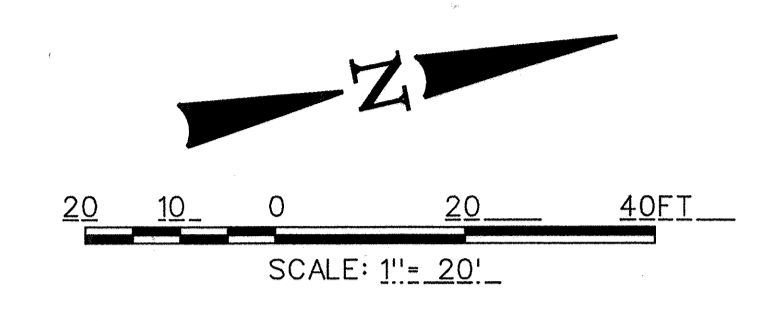
8" & 12" WATER MAIN
 JEFFERSON BLVD.
 RAVINIA Dr. to DUVALL Dr.
 WATER UTILITIES DEPARTMENT
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 2002	41IQ	889

UNDERGROUND UTILITIES
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CONSTRUCT 18" WASTEWATER MAIN
 Abandon Portion of Ex. 10" WW. Built 1926.

MATCH MARK STA. 472, LINE 'S-1'
 SEE 41Q-889, SH. 9



Note: The Existing Concrete Wall Along the North ROW of Jefferson Blvd. has Historic Significance. The Contractor Shall Avoid Damage to the Wall During Construction.

Ex. 10" WW to Remain In Service from Sta. 0+58.3 to Approx. Sta. 1+70, Line 'S-1'

Note: Contractor to Determine the Location of All Wastewater Lateral Service Connections Prior to Construction. No Separate Pay Item.

- CONTROL POINTS/ONSITE BENCHMARKS
- | POINT | COORDINATES | DESCRIPTION |
|-------|--|---|
| 1007 | N=6959243.65
E=2471005.25
ELEV.=548.78 | "X" cut in conc. in front of lot 3 Block 4602 Jefferson Blvd |
| 1008 | N=6959257.32
E=2470896.59
ELEV.=535.60 | "X" cut in conc. in front of lot 1 Block 4602 Jefferson Blvd |
| 1009 | N=6959367.45
E=2470897.17
ELEV.=531.65 | MAG wall w/ Shiner in conc. near CL of 9th St in front lot 12 Block 4603 9th St |

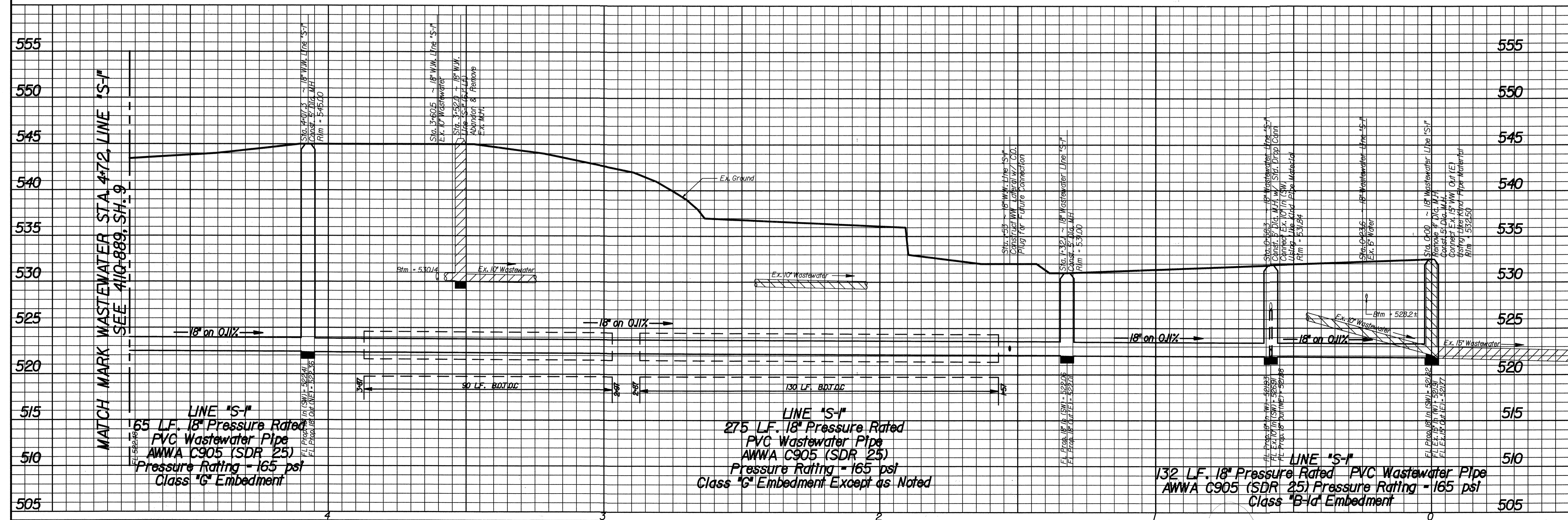
CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior to Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main in Area. Contact Onor Gas Co. Two Working Days Prior to Construction For On Site Locations. ~ Ph. 1-800-344-8377

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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Ray McIntire and Wife, Laura McIntire
 Donna Johnson, a married woman
 20" Wide Wastewater Easement
 Sta. 2+23 to 3+75 Blk. 4602 Lot 1
 Special Conditions Standard Easement Format
 City Secretary File #2015-0011
 Instrument #201600068521
 03/02/2016

Heather Blalke
 20" Wide Wastewater Easement
 Sta. 1+50 to 2+23 Blk. 4602 Lot 2
 Special Conditions Standard Easement Format
 City Secretary File #2015-0011
 Instrument #201500329063
 11/20/2015



CONTRACT NO. 21-342

8

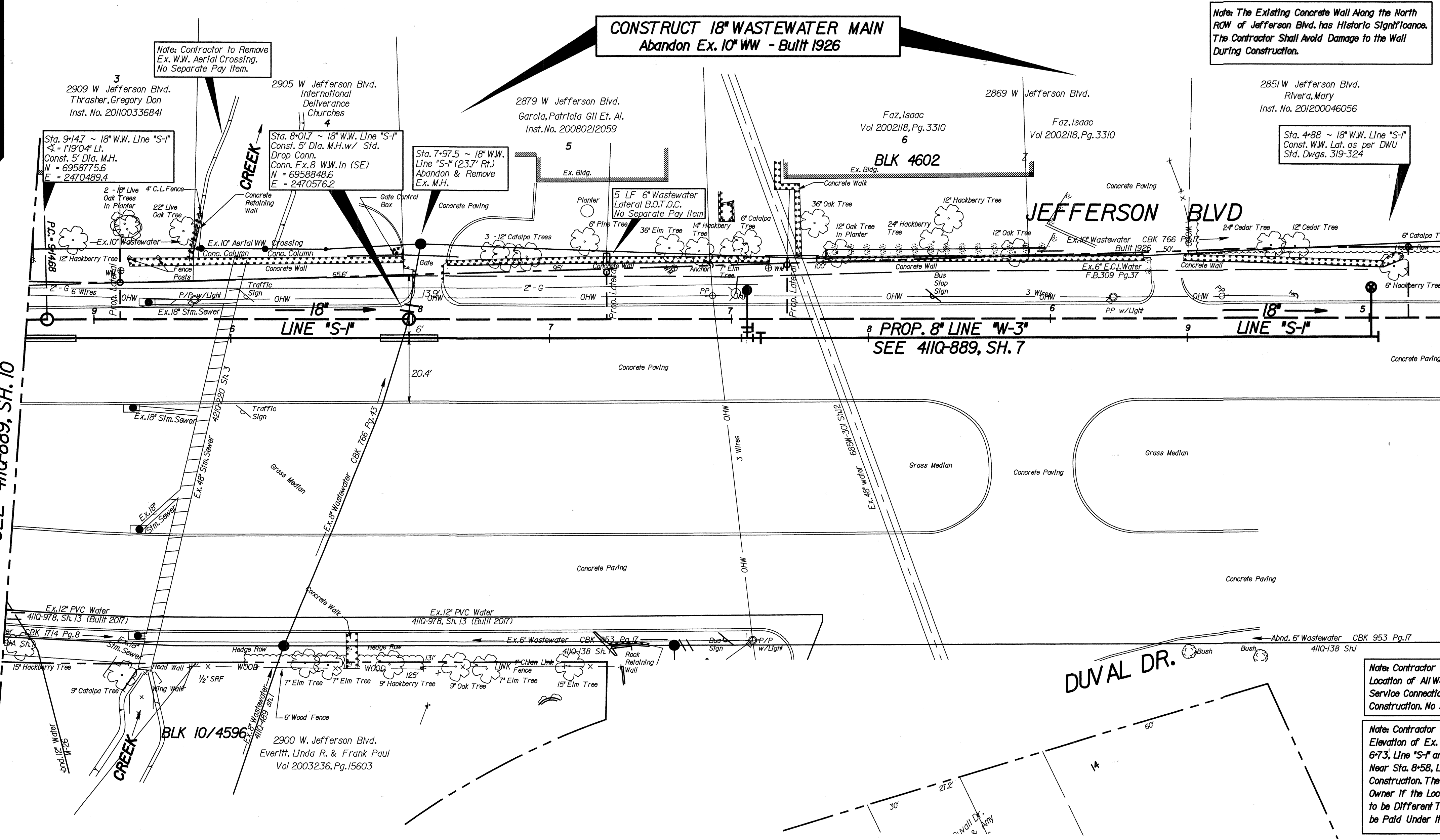
STATE OF TEXAS
 REGISTERED PROFESSIONAL ENGINEER
 STEPHEN L. HARDY
 48699

AZ&B AZAB, LLC
 TYPE FORM REG. #0-0098
 1355 MCCOY ROAD
 DALLAS, TEXAS 75226
 (214) 341-9900

18" WASTEWATER MAIN
 JEFFERSON BLVD. - 9TH ST.
 RAVINIA Dr. to 9TH St.
 WATER UTILITIES DEPARTMENT
 CITY OF DALLAS, TEXAS

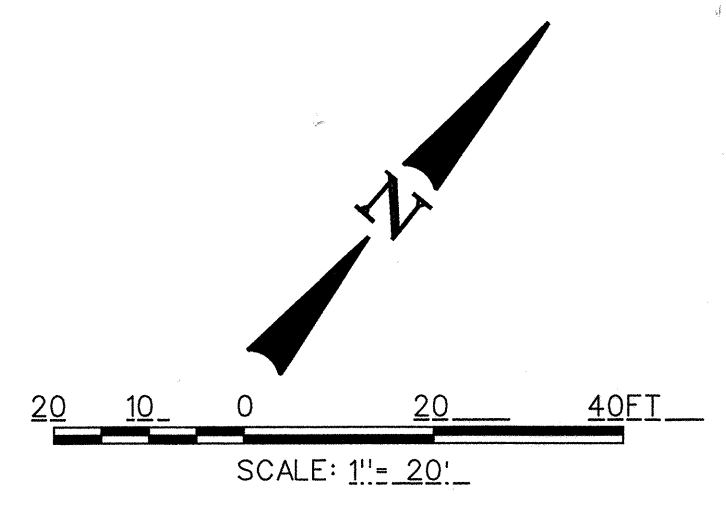
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	5689 5691	411Q	889

UNDERGROUND UTILITIES
 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ON-SITE LOCATIONS.



CONSTRUCT 18" WASTEWATER MAIN
 Abandon Ex. 10" WW - Built 1926

Note: The Existing Concrete Wall Along the North ROW of Jefferson Blvd. has Historic Significance. The Contractor Shall Avoid Damage to the Wall During Construction.



MATCH MARK STA. 9+21, LINE 'S-1'
 SEE 41IQ-889, SH. 10

MATCH MARK STA. 4+72, LINE 'S-1'
 SEE 41IQ-889, SH. 8

- BM #1 - Std. Sq. cut in center of end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

CONTROL POINTS/ONSITE BENCHMARKS

POINT	COORDINATES	DESCRIPTION
1005	N=6958647.95 E=2470269.06 ELEV.=539.23	1/2" SRS w/Red cap on curb in front of House #2921 Block A/4602 Jefferson Blvd
1006	N=6958838.05 E=2470735.86 ELEV.=547.90	1/2" SRS w/Red cap on curb at intersection Jefferson Blvd & Duvall Dr
1007	N=6959243.65 E=2471005.25 ELEV.=548.78	*X* cut in conc. in front of lot 3 Block 4602 Jefferson Blvd

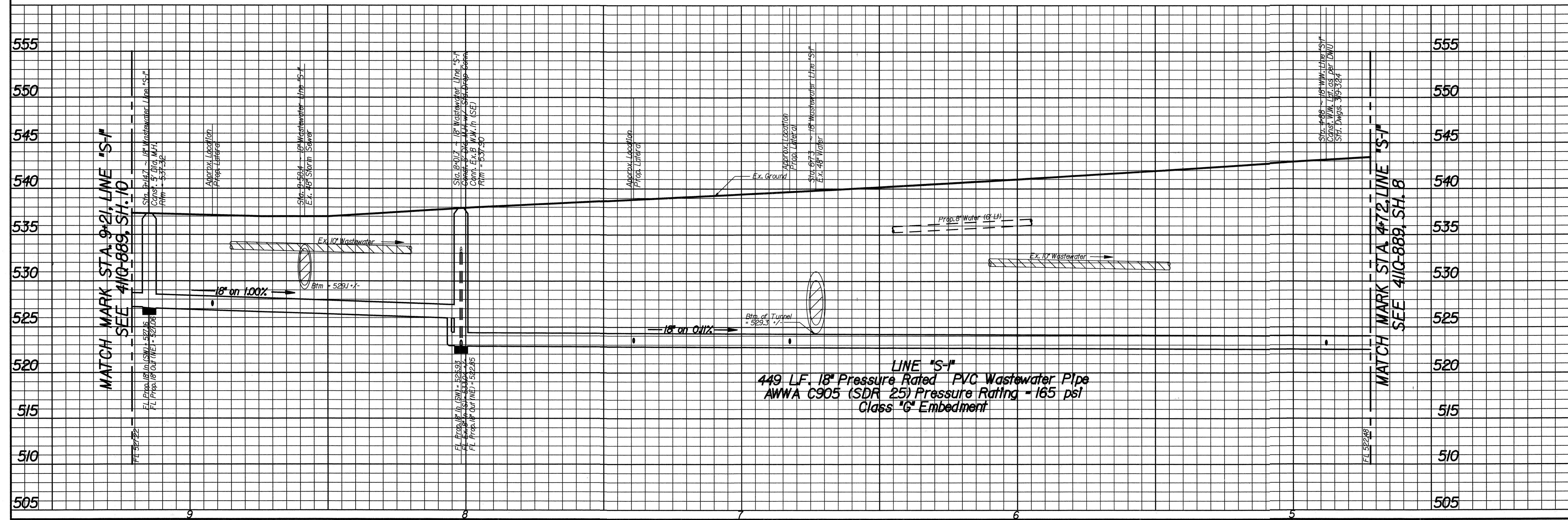
CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main In Area. Contact Onor Gas Co. Two Working Days Prior to Construction For On Site Locations. - Ph. # 1-800-344-8377

Note: Contractor to Determine the Location of All Wastewater Lateral Service Connections Prior to Construction. No Separate Pay Item.

Note: Contractor to Verify the Location and Elevation of Ex. 48" Water Main Near Sta. 6+73, Line 'S-1' and Ex. 48" Storm Sewer Near Sta. 8+58, Line 'S-1' Prior to Beginning Construction. The Contractor Shall Inform the Owner if the Location and Elevation are Found to be Different Than Shown on the Plans. To be Paid Under Item. No. 20500, Investigation.

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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LINE 'S-1'
 449 LF. 18" Pressure Rated PVC Wastewater Pipe
 AWWA C905 (SDR 25) Pressure Rating - 165 psi
 Class 'C' Embedment

9



CONTRACT NO. 21-342

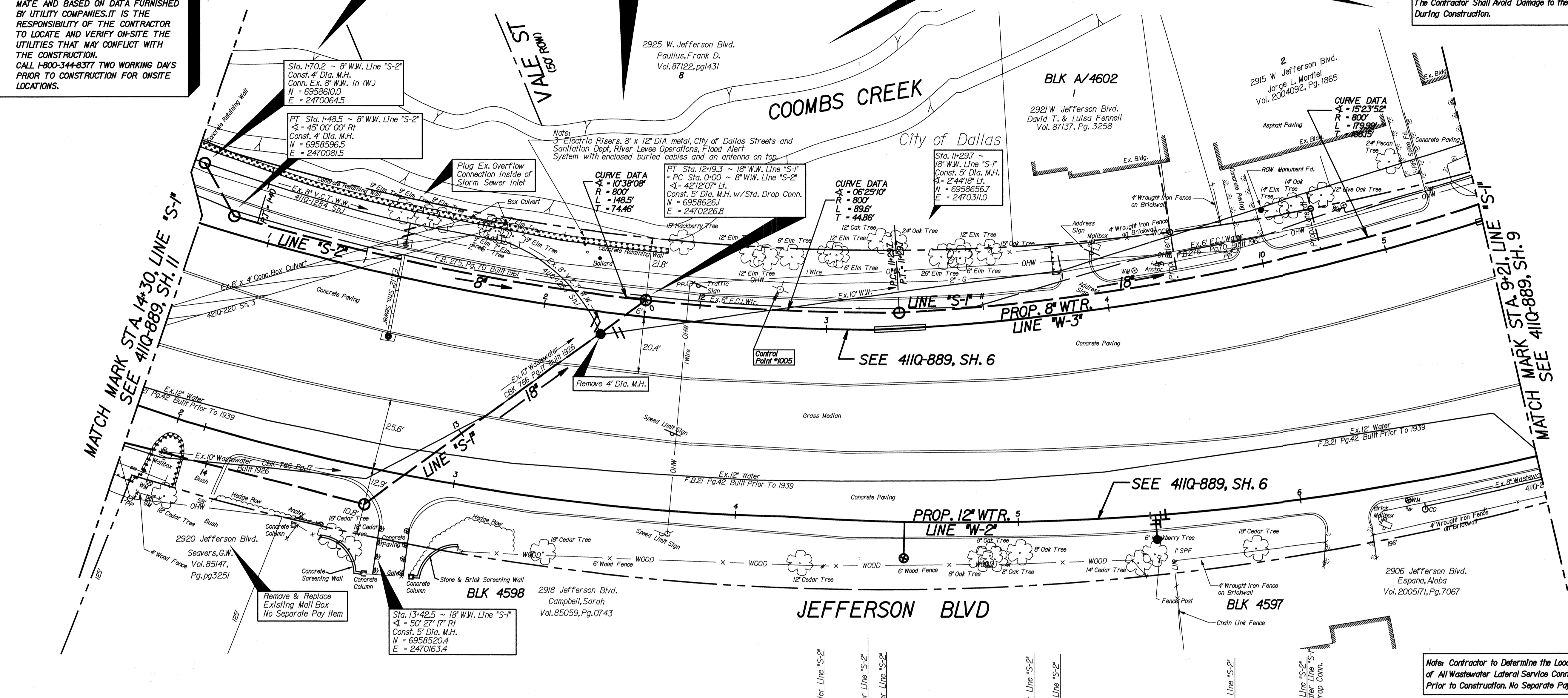
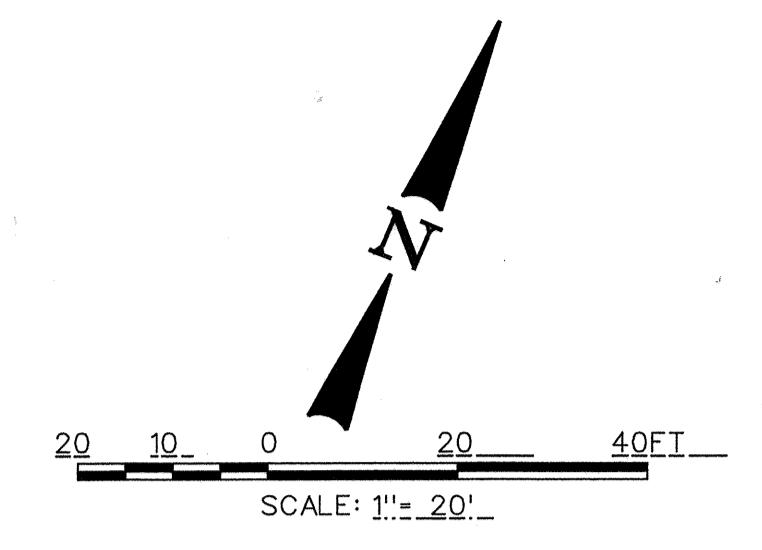
18" WASTEWATER MAIN JEFFERSON BLVD. RAVINIA Dr. to 9TH St. WATER UTILITIES DEPARTMENT CITY OF DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 2044	41IQ	889

UNDERGROUND UTILITIES
 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ON-SITE LOCATIONS.

CONSTRUCT 8" WASTEWATER MAIN
 Abandon Ex. 8" WW - Built 1948

CONSTRUCT 18" WASTEWATER MAIN
 Abandon Ex. 10" WW - Built 1926

Note: The Existing Concrete Wall Along the North ROW of Jefferson Blvd. has Historic Significance. The Contractor Shall Avoid Damage to the Wall During Construction.



- BM #1 - Std. Sq. cut in center of end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Ravinia Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

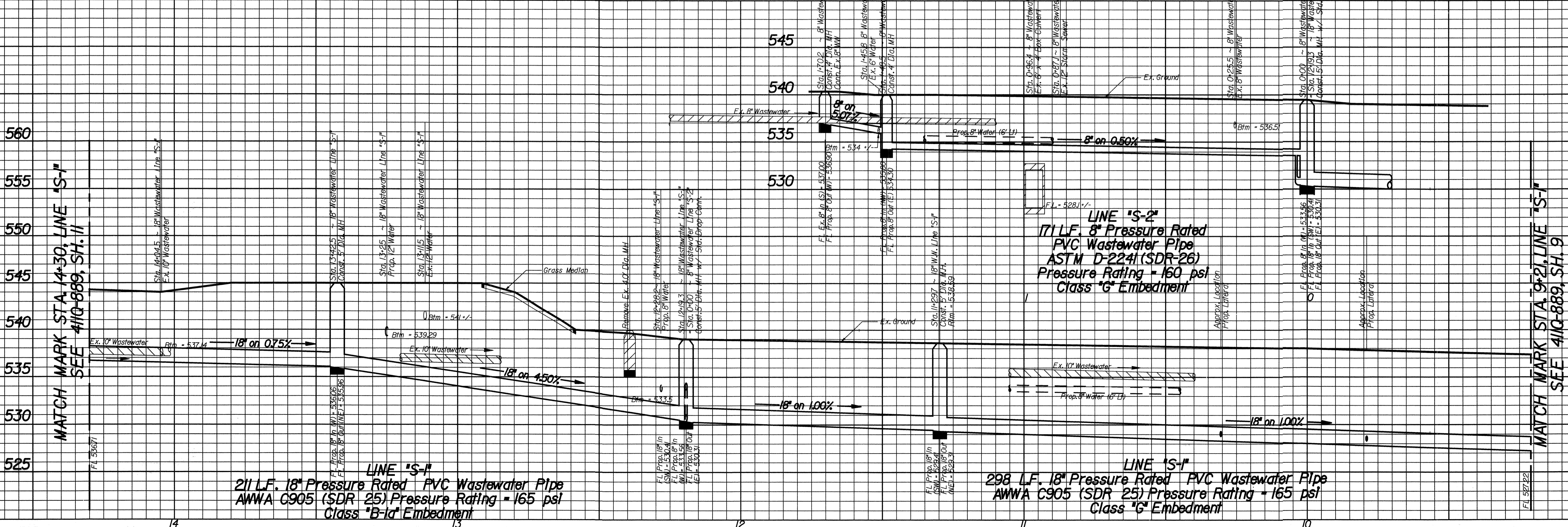
CONTROL POINTS/ONSITE BENCHMARKS

POINT	COORDINATES	DESCRIPTION
1004	N=6958553.65 E=2469906.84 ELEV.=542.81	1/2" SRS w/Red cap on median near intersection Jefferson and Ravinia Dr
1005	N=6958647.95 E=2470269.06 ELEV.=539.23	1/2" SRS w/Red cap on curb in front House #2921 Block A/4602 Jefferson Blvd
1006	N=6958838.05 E=2470735.86 ELEV.=547.90	1/2" SRS w/Red cap on curb at intersection Jefferson Blvd & Duvall Dr

CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main In Area. Contact Onor Gas Co. Two Working Days Prior to Construction For On Site Locations. ~ Ph. 1-800-344-8377

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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10

CONTRACT NO. 21-342

AZ&B AZ&B, LLC
 TEXAS REG. NO. 44-0088
 13355 MCCREE ROAD
 DALLAS, TEXAS 75238
 (214) 341-9800

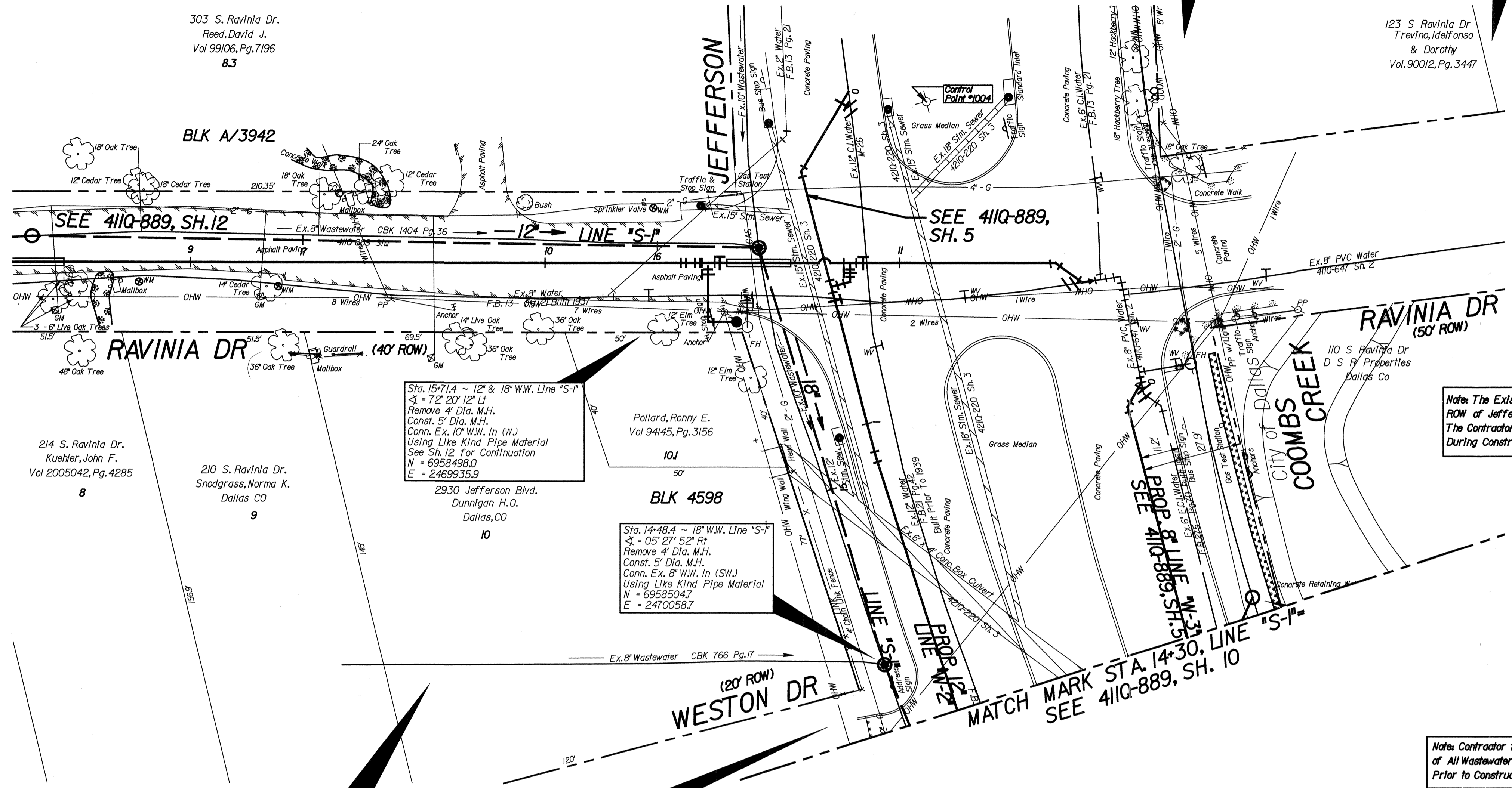
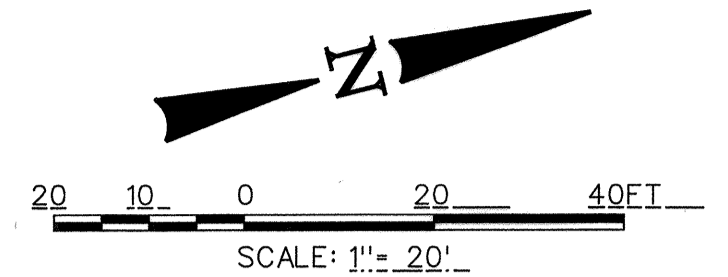
8" & 18" WASTEWATER MAIN
 JEFFERSON BLVD.
 RAVINIA Dr. to 9TH St.
 WATER UTILITIES DEPARTMENT
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 20146	41IQ	889

UNDERGROUND UTILITIES
 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION.
 CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

303 S. Ravinia Dr.
 Reed, David J.
 Vol 99106, Pg. 7196
 83

CONSTRUCT 8" WASTEWATER MAIN
 Abandon Ex. 8" WW - Built 1948



- BM #1 - Std. Sq. cut in center on end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

CONTROL POINTS/ONSITE BENCHMARKS

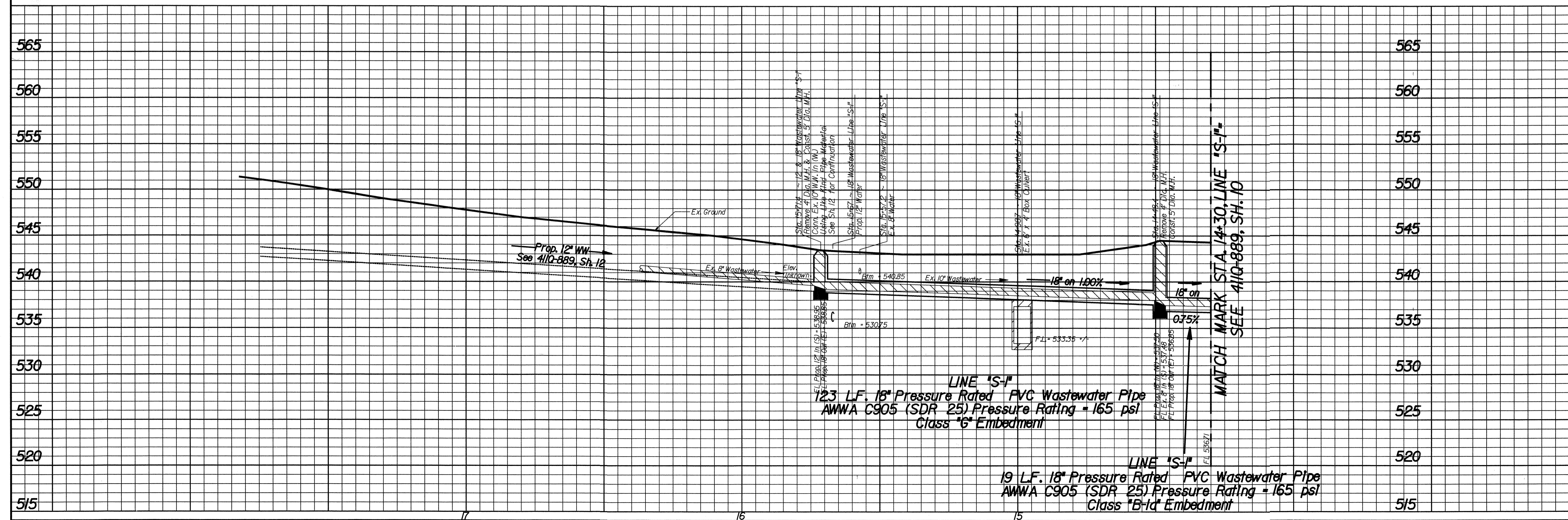
POINT	COORDINATES	DESCRIPTION
1003	N=6958220.31 E=2469870.14 ELEV.=553.65	MAG Nail w/shiner near edge paving in front Lot 8,4 Block A/3942 Ravinia Dr
1004	N=6958553.65 E=2469906.84 ELEV.=542.81	1/2" SRS w/Red cap on median near intersection Jefferson and Ravinia Dr
1005	N=6958647.95 E=2470269.06 ELEV.=539.23	1/2" SRS w/Red cap on curb in front House #292 Block A/4602 Jefferson Blvd

CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main In Area. Contact Onco Gas Co. Two Working Days Prior to Construction For On Site Locations. - Ph. 1-800-344-8377

Note: Contractor to Determine the Location of All Wastewater Lateral Service Connections Prior to Construction. No Separate Pay Item.

Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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CONTRACT NO. 21-342

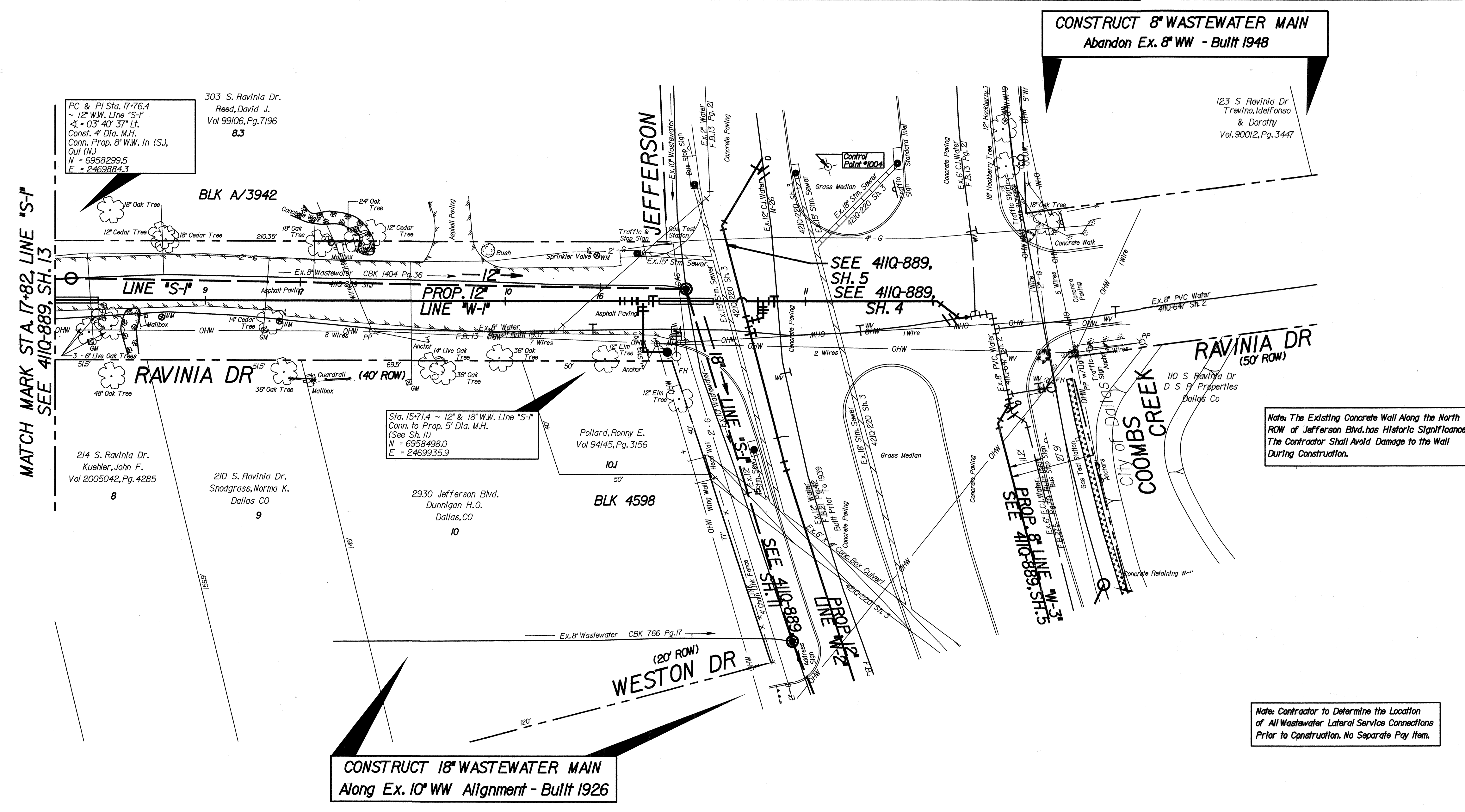
STATE OF TEXAS
 REGISTERED PROFESSIONAL ENGINEER
 STEPHEN L. HARDY
 48699

AZ&B AZAB, LLC
 TYPE 1999 REG. # 00098
 1335 MCCOY ROAD
 DALLAS, TEXAS 75228
 (214) 341-9900

18" WASTEWATER MAIN
 JEFFERSON BLVD.
 RAVINIA Dr. to W. of DUVAL Dr.
 WATER UTILITIES DEPARTMENT
 CITY OF DALLAS, TEXAS

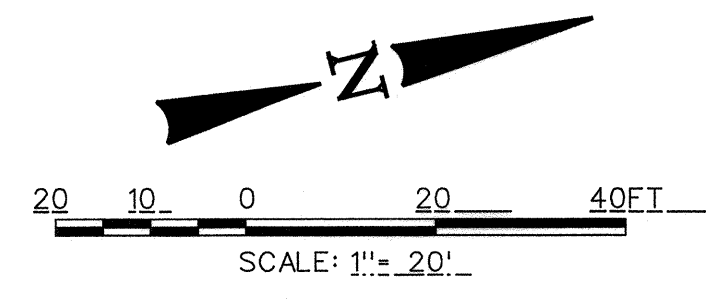
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SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 20140	411Q	889

UNDERGROUND UTILITIES
 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.



CONSTRUCT 8" WASTEWATER MAIN
 Abandon Ex. 8" WW - Built 1948

CONSTRUCT 12" WASTEWATER MAIN
 Along Ex. 10" WW Alignment - Built 1926



- BM #1 - Std. Sq. cut in center on end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

CONTROL POINTS/ONSITE BENCHMARKS

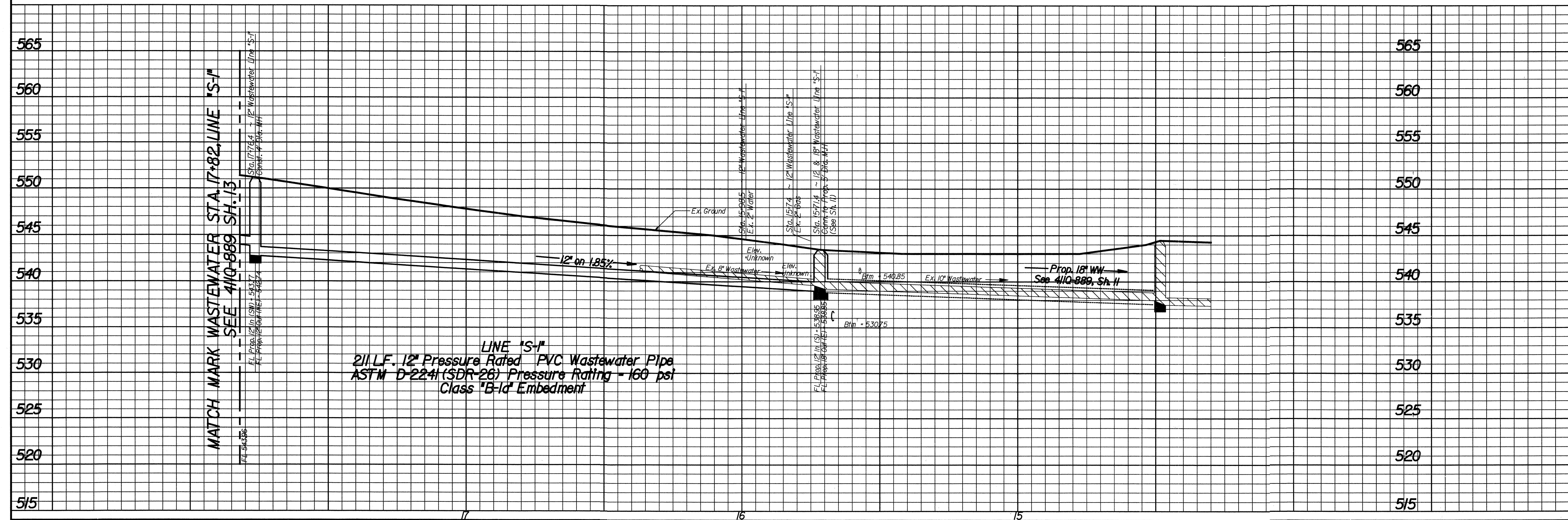
POINT	COORDINATES	DESCRIPTION
1003	N=6958220.31 E=2469870.14 ELEV.=553.65	MAG Nail w/shiner near edge paving in front Lot B.4 Block A/3942 Ravinia Dr
1004	N=6958553.65 E=2469906.84 ELEV.=542.81	1/2" SRS w/Red cap on median near intersection Jefferson and Ravinia Dr
1005	N=6958647.95 E=2470269.06 ELEV.=539.23	1/2" SRS w/Red cap on curb in front House #2921 Block A/4602 Jefferson Blvd

CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main In Area. Contact Onco Gas Co. Two Working Days Prior to Construction For On Site Locations. ~ Ph. 1-800-344-8377

Note: Contractor to Determine the Location of All Wastewater Lateral Service Connections Prior to Construction. No Separate Pay Item.

Bud Holcomb E-14	Water Map 44-18W 45-18W	WW Map 44-18S 45-18S	MAPSCO 53H
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LINE "S-1"
 211 LF. 12" Pressure Rated PVC Wastewater Pipe
 ASTM D-2241 (SDR-26) Pressure Rating - 160 psi
 Class "B-1" Embedment

12

CONTRACT NO. 21-342

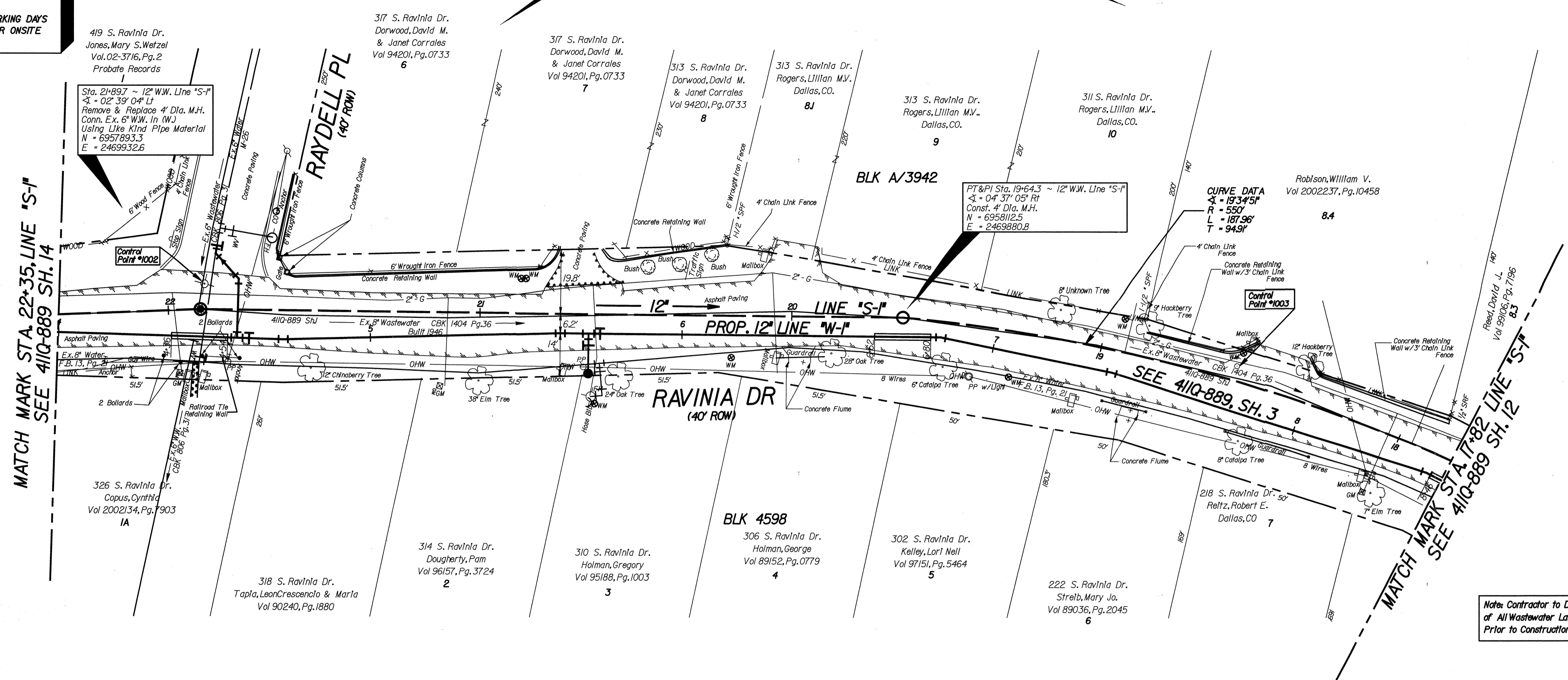
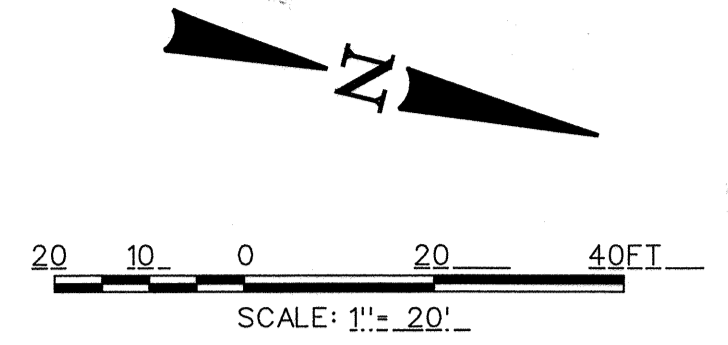


8" & 12" WASTEWATER MAIN
 RAVINIA DR.
 JEFFERSON Blvd. to 12TH St.
 WATER UTILITIES DEPARTMENT
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 4468	41IQ	889

UNDERGROUND UTILITIES
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 CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

CONSTRUCT 12" WASTEWATER MAIN
 Along Ex. 8" WW Alignment - Built 1946



- BM #1 - Std. Sq. cut in center on end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

CONTROL POINTS/ONSITE BENCHMARKS

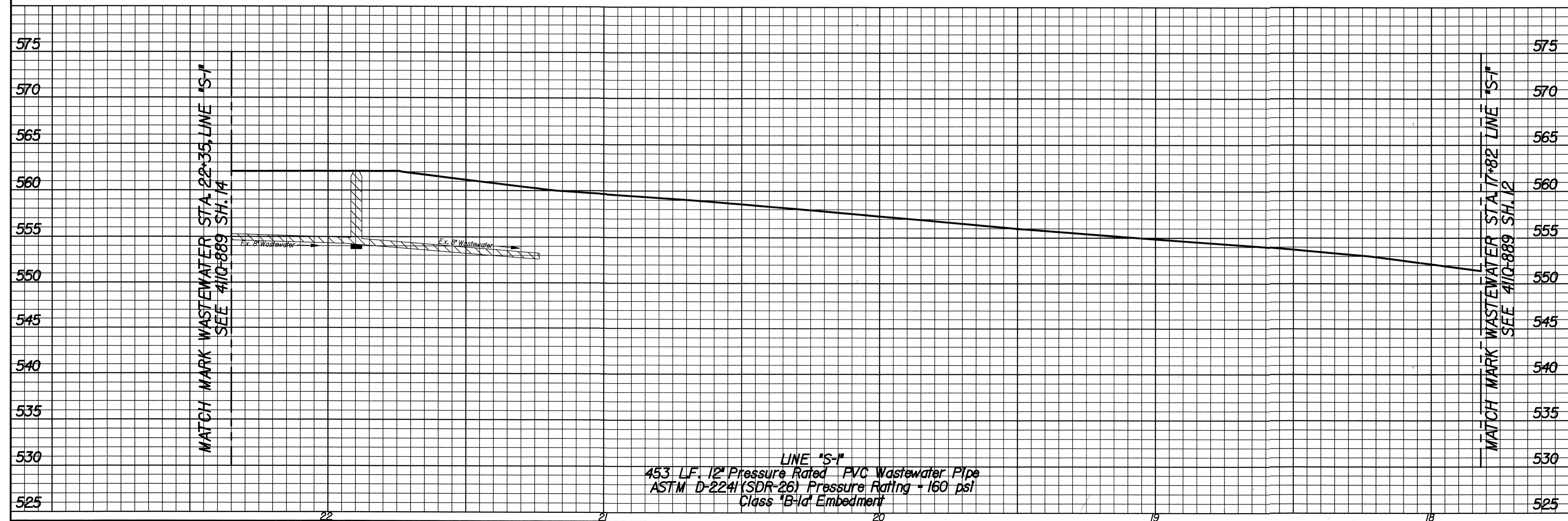
POINT	COORDINATES	DESCRIPTION
1002	N=6957892.66 E=2469924.90 ELEV.=561.92	MAG nail w/shlner near CL of Raydell Pl at intersection with Ravinia Dr
1003	N=6958822.31 E=2469870.14 ELEV.=553.65	MAG Nail w/shlner near edge paving in front Lot 8.4 Block A/3942 Ravinia Dr
1004	N=6958553.65 E=2469906.84 ELEV.=542.81	1/2" SRS w/Red cap on median near intersection Jefferson and Ravinia Dr

CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

Note: Contractor to Determine the Location of All Wastewater Lateral Service Connections Prior to Construction. No Separate Pay Item.

CAUTION - GAS
 Existing Gas Main in Area. Contact Onco Gas Co. Two Working Days Prior to Construction For On Site Locations. ~ Ph. 1-800-344-8377

Bud Holcomb E-14	Water Map 44-18W 45-18W	WW Map 44-18S 45-18S	MAPSCO 53H
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LINE 'S-1'
 453 LF. 12" Pressure Rated PVC Wastewater Pipe
 ASTM D-2241 (SDR-26) Pressure Rating = 160 psi
 Class 'B-1a' Embedment

13



CONTRACT NO. 21-342

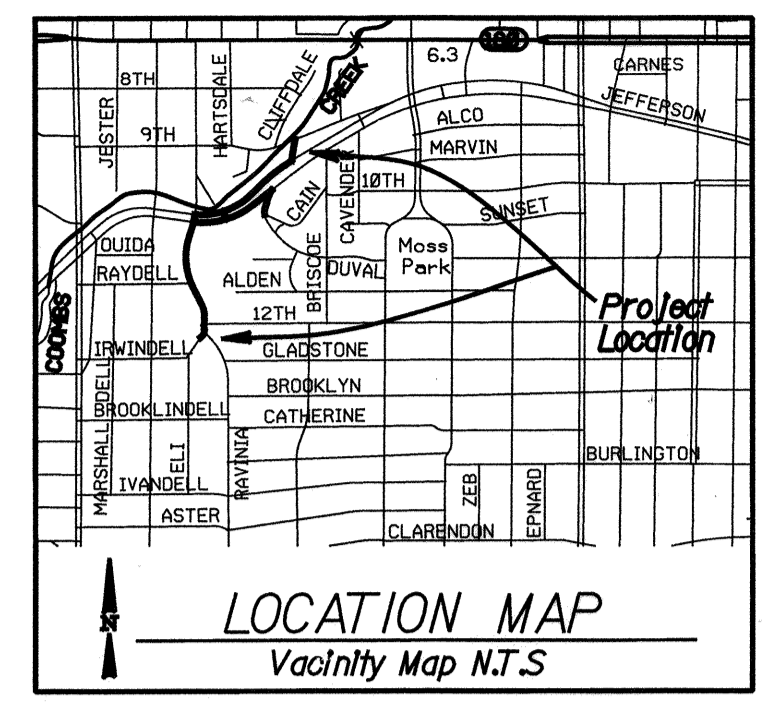
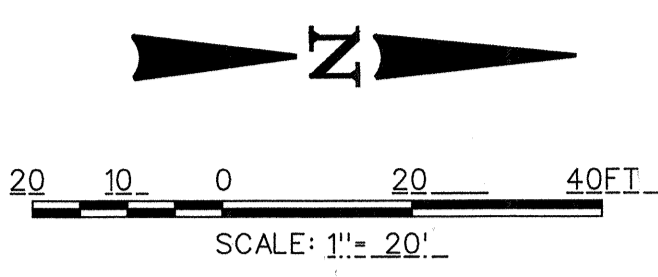
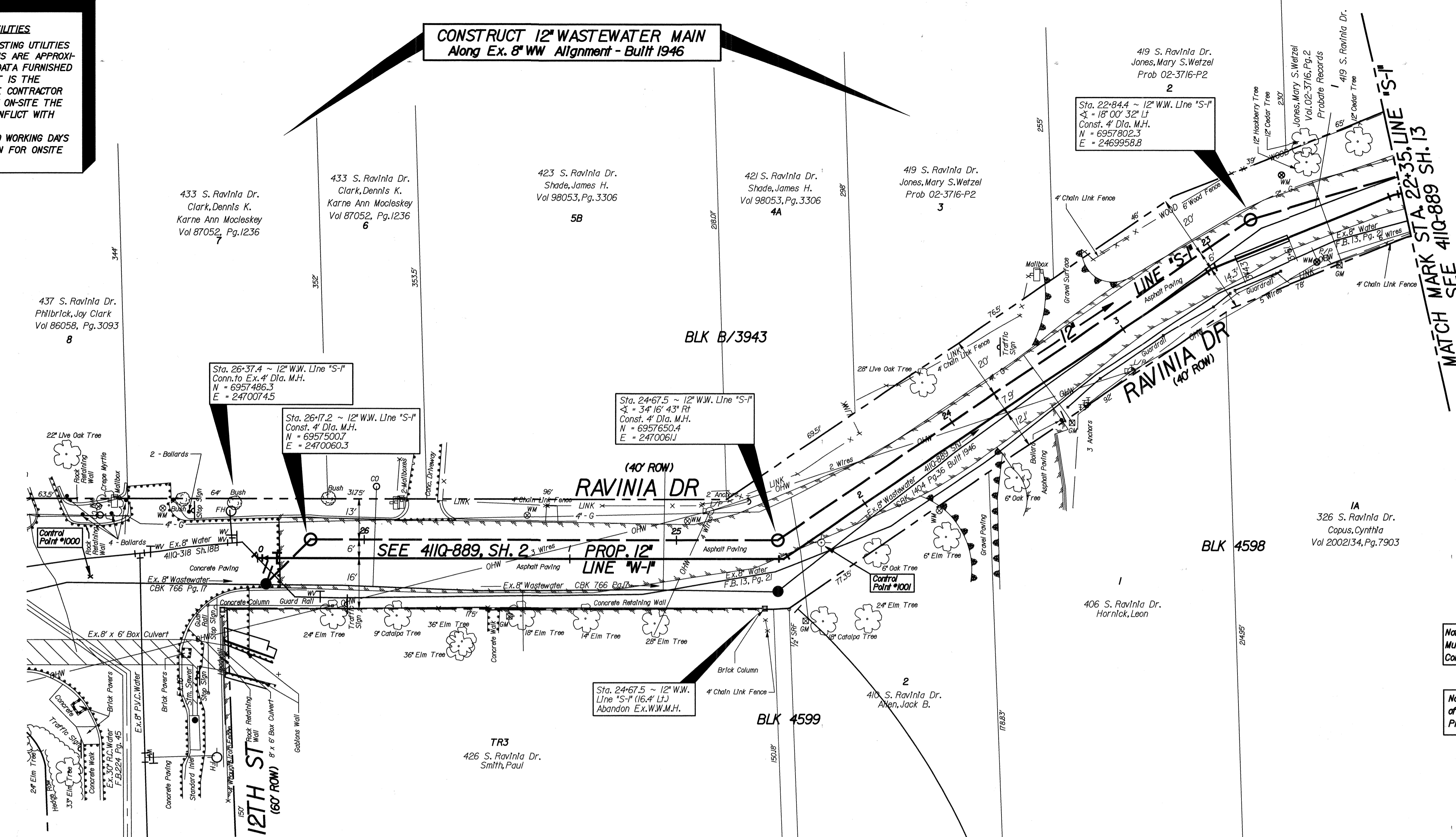
AZ&B AZ&B, LLC
 TYPE FIRM REG. # 00088
 11515 MCKEE ROAD
 DALLAS, TEXAS 75228
 (214) 341-9900

12" WASTEWATER MAIN
 RAVINIA DR.
 JEFFERSON Blvd. to 12TH St.
 WATER UTILITIES DEPARTMENT
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 4468	41IQ	889

UNDERGROUND UTILITIES
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 CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

**CONSTRUCT 12" WASTEWATER MAIN
 Along Ex. 8" WW Alignment - Built 1946**



- BM #1 - Std. Sq. cut in center on end of conc. curb beginning of radius @ SW corner of Ravinia Dr. and Raydell Place. Elev. = 562.37
- BM #2 - Std. Sq. cut on storm sewer inlet section @ Jefferson Blvd. and Ravinia Dr. Elev. = 544.00
- BM #3 - Std. Sq. cut in conc. curb beginning of radius east side of Cliffdale Ave. and 30' South of Ninth St. Elev. = 544.79

CONTROL POINTS/ONSITE BENCHMARKS

POINT	COORDINATES	DESCRIPTION
1000	N=6957430.14 E=2470072.02 ELEV.=566.00	*X' cut in conc. near CL of Ravinia Dr. at intersection with 12TH St
1001	N=6957664.29 E=2470061.93 ELEV.=562.41	MAG wall w/shiner near edge of paving in front of Lot 2 Block 4599 Ravinia Dr.
1002	N=6957892.66 E=2469924.90 ELEV.=561.92	MAG wall w/shiner near CL of Raydell Pl at intersection with Ravinia Rd.

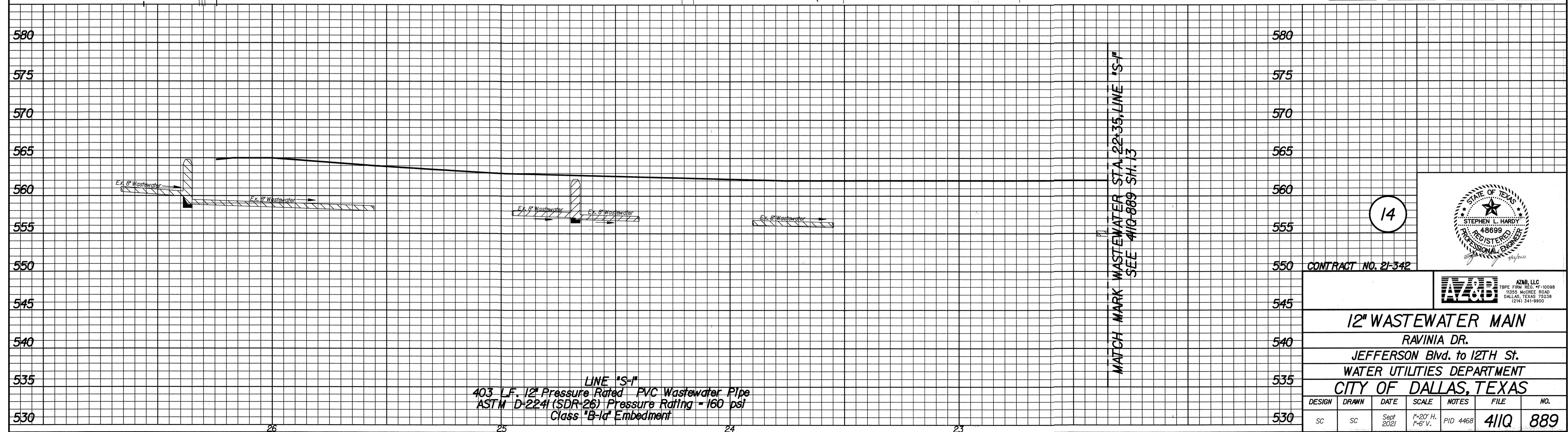
Note: 12" Wastewater Main Must Be Constructed Prior to Construction of 12" Water Main.

Note: Contractor to Determine the Location of All Wastewater Lateral Service Connections Prior to Construction. No Separate Pay Item.

CAUTION - UNDERGROUND UTILITIES!
 Call 1-800-344-8377 Two Working Days Prior To Construction For On Site Locations.

CAUTION - GAS
 Existing Gas Main In Area. Contact Onor Gas Co. Two Working Days Prior to Construction For On Site Locations. - Ph. 1-800-344-8377

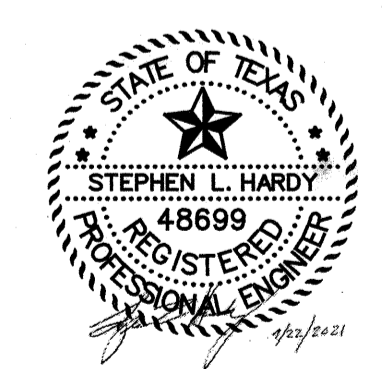
Bud Holcomb E-14	Water Map 44-18W 45-18W	W.W. Map 44-18S 45-18S	MAPSCO 53H
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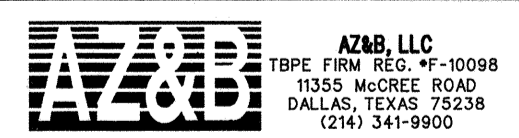
CONTRACT NO. 21-342

12" WASTEWATER MAIN
 RAVINIA DR.
 JEFFERSON Blvd. to 12TH St.
 WATER UTILITIES DEPARTMENT
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
SC	SC	Sept 2021	1"=20' H. 1"=6' V.	PID 4468	41Q	889

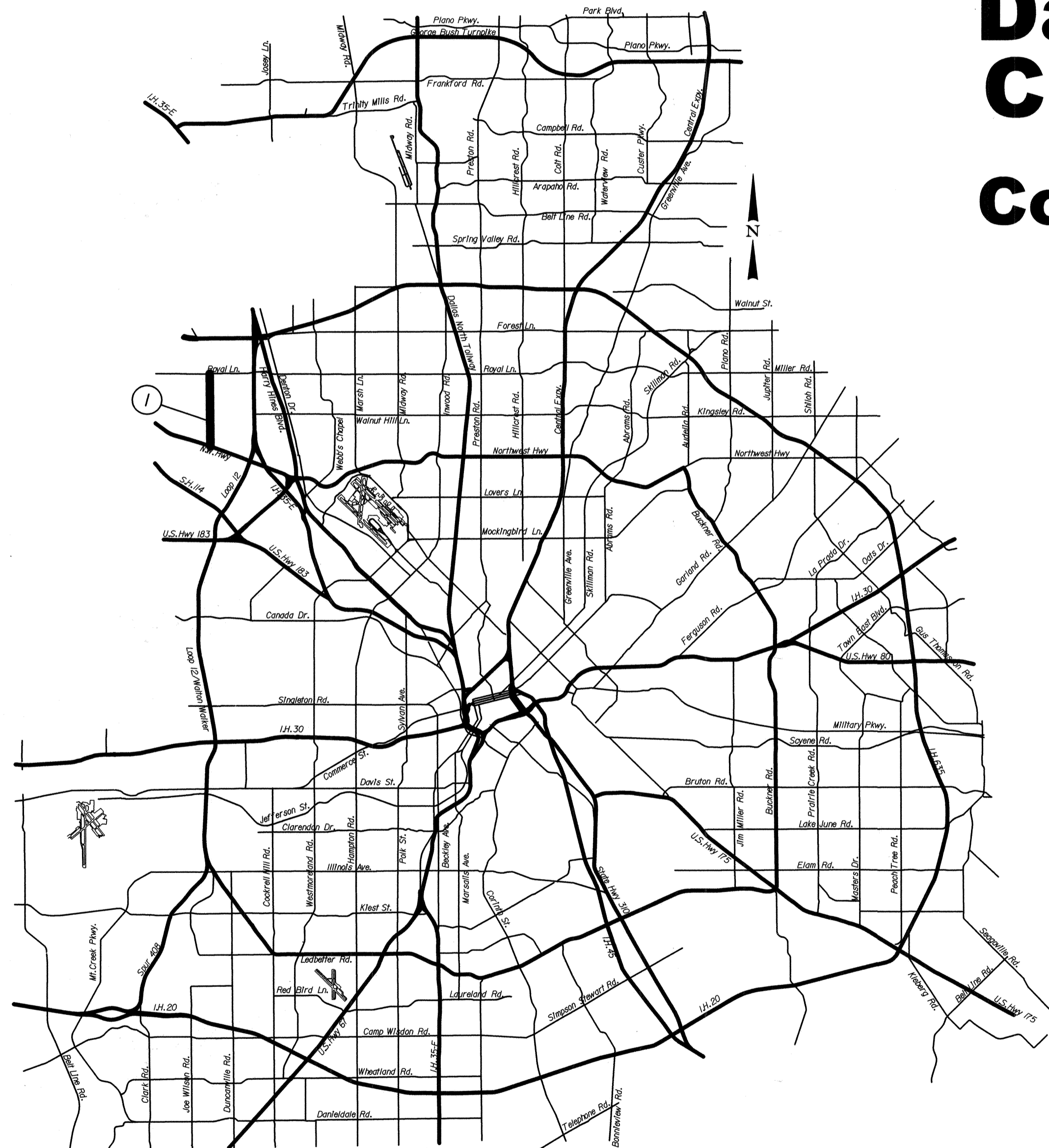


14

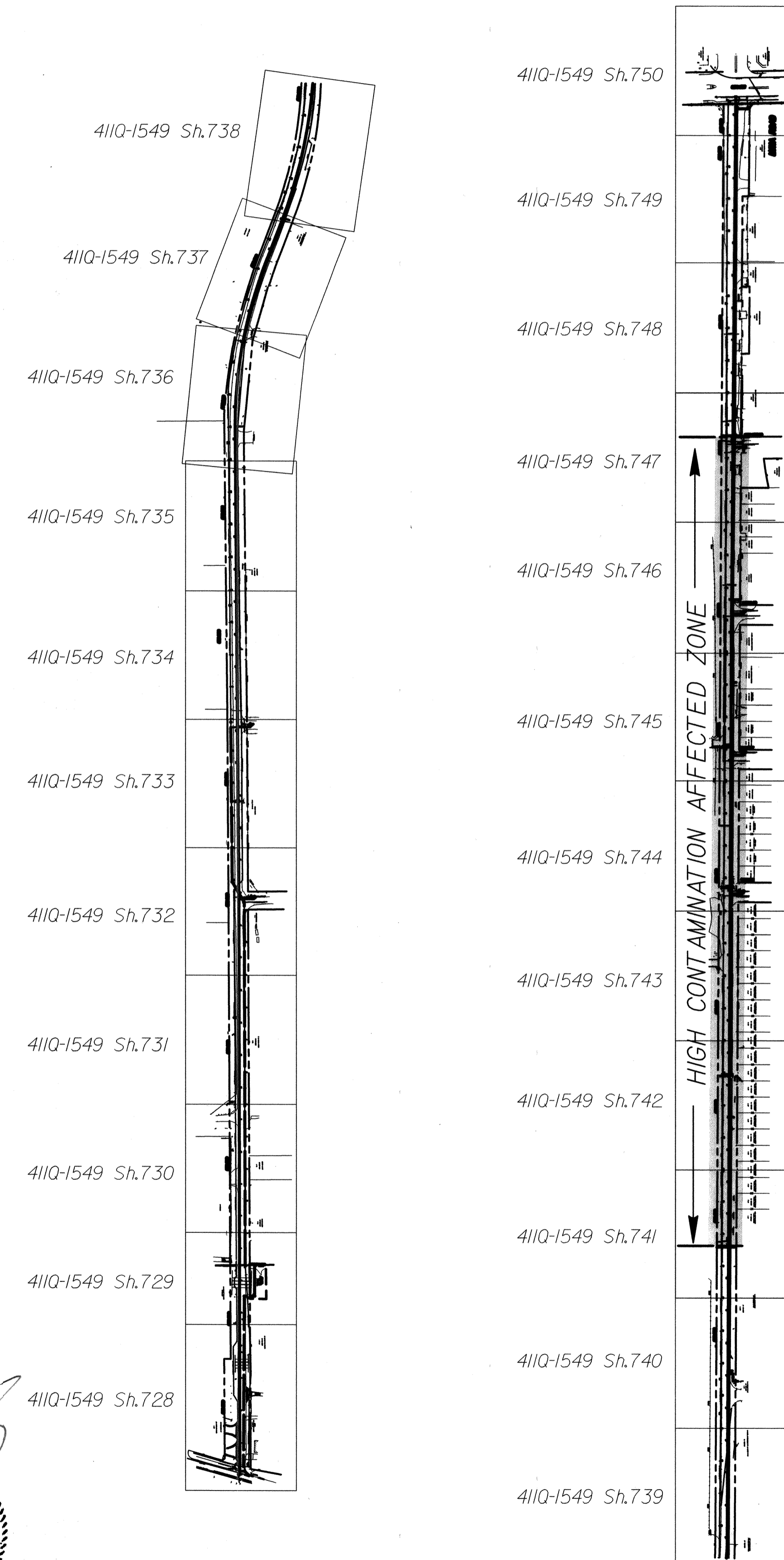
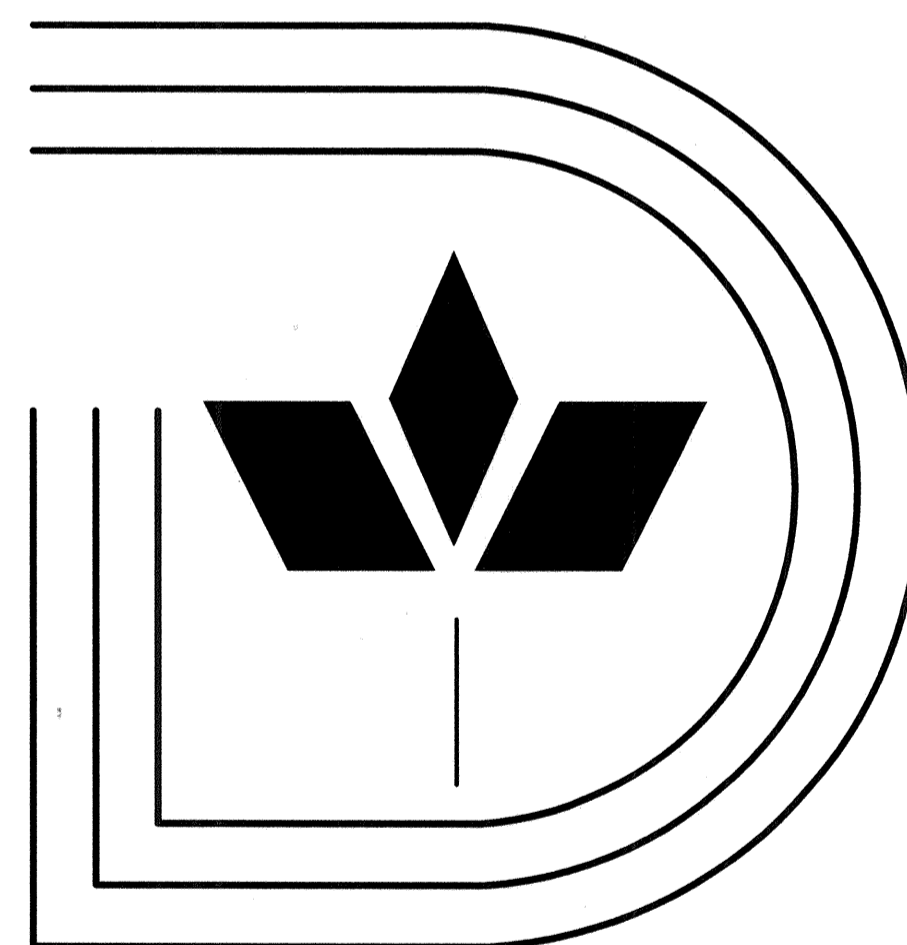


LUNA ROAD FROM NORTHWEST HIGHWAY TO ROYAL LANE PID 1210 SCHEDULE B

**Dallas Water Utilities
City Of Dallas, Texas**
**Contract No. : 21-341/342
November 2021**



N.T.S.



LEGENDS

GENERAL NOTES

GENERAL

	Benchmark
	Control Point
	Iron Pin Found
	Iron Pin Set
	Existed ROW
	Proposed ROW
	ROW Centerline
	Alley ROW
	Existed Easement
	Proposed Easement
	Corporation Line Marker
	Existed Structure/Building
	Proposed Structure/Building
	Underground Structure/Building
	Bank/Slope Line
	Flow Line/Stream Line
	Bore Hole

TOPOGRAPHIC FEATURES

	Tree
	Brush, Shrub, Wood
	Swamp
	Mail Box
	Ballards
	Irrigation Control Valve
	Chain Link/Other Fence
	Wood Fence
	Wrought Iron Fence
	Brick Wall
	Concrete Wall
	Retaining Wall
	Parking Meter
	Traffic Sign
	Traffic Signal Pole
	Street Lamp
	Railroad, Each Track

PAVEMENT

	Existed Gravel
	Existed Asphalt
	Existed Brick
	Existed Concrete
	Proposed Pavement

STORM DRAINS

	Existed Storm Drain
	Existed Storm Manhole
	Existed Storm Inlet
	Proposed Storm Drain
	Proposed Storm Manhole
	Proposed Storm Inlet

UTILITIES

	Existed Gas Line
	Existed Gas Manhole
	Existed Underground Electric Line
	Existed Overhead Electric Line
	Existed Electric Pad Mounted Transformer
	Existed Electric Power Pole
	Existed Electric Pole Anchor
	Existed Electric Utility Manhole
	Existed Electric Vault
	Existed Telephone Line
	Existed Telephone Utility Manhole
	Existed Telephone Pedestal
	Existed Fiber Optic Line
	Existed Fiber Optic Manhole
	Existed Cable TV Line
	Existed Cable TV Manhole

WATER MAINS & APPURTENANCES

	Existed 6" Water Main
	Existed 8" to 27" Water Main
	Existed 30" or Larger Water Main
	Proposed 6" Water Main
	Proposed 8" to 27" Water Main
	Proposed 30" or Larger Water Main
	Future Water Main
	Existed Water Meter
	Existed Water Manhole
	Existed Water Vault
	Existed Fire Hydrant
	Proposed Water Manhole
	Proposed Water Vault
	Proposed Fire Hydrant
	Existed 11.25" Fitting
	Existed 22.5" Fitting

WASTEWATER MAINS & APPURTENANCES

	Existed 6" to 27" Wastewater Main
	Existed 30" or Larger Wastewater Main
	Proposed 6" to 27" or Larger Wastewater Main
	Proposed 30" or Larger Wastewater Main
	Existed Wastewater Manhole
	Existed Wastewater Access Device
	Existed Wastewater Cleanout
	Proposed Wastewater Manhole
	Proposed Wastewater Access Device
	Proposed Wastewater Cleanout
	Remove & Replace Existed Manhole

GENERAL

- All work shall be done in accordance with the North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction (Version 4) and City of Dallas Addendum (October, 2011) to these specifications.
- Reference to standard drawings shall mean those shown in the DWU Standard Drawings for Water & Wastewater Construction Edition 1.0 (October, 2012).
- All items of work required to complete the work as shown or implied by the plans and as specified in the contract documents which are not listed as a pay item in the proposal shall be considered subsidiary.
- The location, elevations and dimensions of existing utilities shown on the plans as obtained from The City of Dallas and utility company records, are considered approximate. The Engineer does not certify that all utilities are shown. The Contractor shall verify exact locations, sizes and depths of existing utilities before beginning construction (including ordering pre-cast manholes and concrete pipe if applicable, NO SEPARATE PAY ITEM).
- The Contractor shall contact Texas Excavation Safety System (800-DIG-TESS; 800-344-8377) and relevant utility companies 48 hours prior to locating existing utilities and/or construction activities.
- The Contractor shall preserve and protect all existing utilities at all times during construction. Any damage to utilities resulting from the Contractor's operation shall be restored at his expense.
- The Contractor shall support telephone conduits, storm drains, water and wastewater mains when going under said utilities. NO SEPARATE PAY ITEM.
- Power poles may have to be braced at the Contractor's expense.
- No machinery, construction access or storage shall be allowed on park property beyond the limits of the temporary workspace as defined by the City of Dallas Inspector.

TRAFFIC CONTROL

- The Contractor shall develop a traffic control plan in accordance with the City of Dallas Traffic Barricade Manual, Latest Edition and the TxDOT Texas Manual On Uniform Traffic Control Devices (TMUTCD), Latest Version as necessary. NO SEPARATE PAY ITEM.
- The Contractor shall submit the traffic control plan to the City of Dallas on-line Right of Way system for approval.
- The diversion of pedestrians and vehicles during the progress of the work shall be in a manner satisfactory to the City of Dallas Inspector.
- The Contractor shall coordinate all traffic variances with Traffic Safety Coordinators at 670-5896 or 683-5189, City of Dallas Public Works & Transportation.
- Two-way traffic shall be maintained at all times and flagmen should be used to maintain two-way traffic as necessary.
- All barricades, warning signs and traffic control devices shall conform to the City of Dallas standards. NO SEPARATE PAY ITEM.
- When closing side streets, two working days notification is required for Fire, Police, Streets and Sanitation Departments. Please contact Gary Maxwell at 670-5896 or mobile 683-5189 to notify traffic restrictions.
- Contractor shall maintain access to private driveways at all times during construction. NO SEPARATE PAY ITEM.
- Vehicle ingress and egress (entrance and exit) to a business property shall be maintained at all times. If not, specific signs along with business name and direction arrows shall be used for any temporary access locations. Additional signs may be necessary if there is a detour. NO SEPARATE PAY ITEM.

PAVEMENT REPLACEMENT

- The Contractor shall all permit requests to the City of Dallas on-line Right of Way system for street cut permits.
- Sawcut, remove and replace pavements, sidewalks, curbs and gutters shall conform to City of Dallas Public Works & Transportation, Pavement Cuts & Repair Standards Manual, Latest Edition.
- All disturbed pavement markings including, but not limited to, striping, traffic buttons and crosswalks shall be restored to the same or improved condition as per City of Dallas Specifications For Public Works Construction, Standard Construction Details and all addenda thereto. NO SEPARATE PAY ITEM.

TREES AND LANDSCAPING

- Contractor shall not damage or remove any trees or landscaping unless otherwise authorized by the City of Dallas Inspector. Any trees or landscaping that are damaged or removed during the construction shall be replaced by the contractor at his expense.

WATER MAIN AND APPURTENANCES

- All 6", 8" and 12" water mains shall be PVC C900 (DR-14) water pipe, with Class "C" embedment, except as noted.
- All water mains with no profiles shall have a minimum cover of four (4) feet below street grade in an improved street and five (5) feet of cover in an unimproved street or alley.
- Compact fittings are not authorized for this project. All ductile iron pipe, fittings and fire hydrant bases shall be poly-wrapped.
- All bends, tees, fire hydrants and plugs are to be restrained type fittings and to be blocked with Class "B" Concrete as per DWU Standard Drawings *229-234, in addition to restrained joints.
- If required by the City of Dallas Inspector, the Contractor shall install temporary water lines on both sides of the street until the new water main has been completed, tested, approved, and accepted by DWU. NO SEPARATE PAY ITEM.
- If no temporary mains are required by the City of Dallas Inspector, then the existing water mains are to be in service with the fire hydrants until the new water main has been tested, approved and accepted by DWU. NO SEPARATE PAY ITEM.
- The Contractor will ensure that fire hydrants are accessible to fire trucks at all times. NO SEPARATE PAY ITEM.
- The Contractor shall sequence his construction such that no more than one fire hydrant is out of service at any given time.
- All fire hydrants shall be installed as per DWU Standard Drawing *224. Existing fire hydrants on killed water lines are to be removed and delivered to DWU Distribution Division at 4120 Scottsdale Street Dallas, Texas if required by the City of Dallas Project Inspector, otherwise they become the property of the Contractor.
- Contractor to coordinate actual location of fire hydrant with directly affected citizens and with DWU Inspector at least 48 hrs. prior to placement of fire hydrant. NO SEPARATE PAY ITEM.
- Backfill made on break repairs to existing water mains may have been made with crushed rock. This could present a cave-in danger to a new ditch; therefore, precautions should be taken by the Contractor. NO SEPARATE PAY ITEM.
- Abandon all water valves on existing mains being killed as per DWU Standard Drawing *219. NO SEPARATE PAY ITEM.
- The Contractor shall coordinate all water main tie-ins with the City of Dallas Inspector.
- The Contractor shall verify the location and number of all existing active water services and construct new services up to the meter prior to killing existing main.
- Water services greater than 30 feet shall be a minimum of one (1) inch in diameter.

WASTEWATER MAIN AND APPURTENANCES

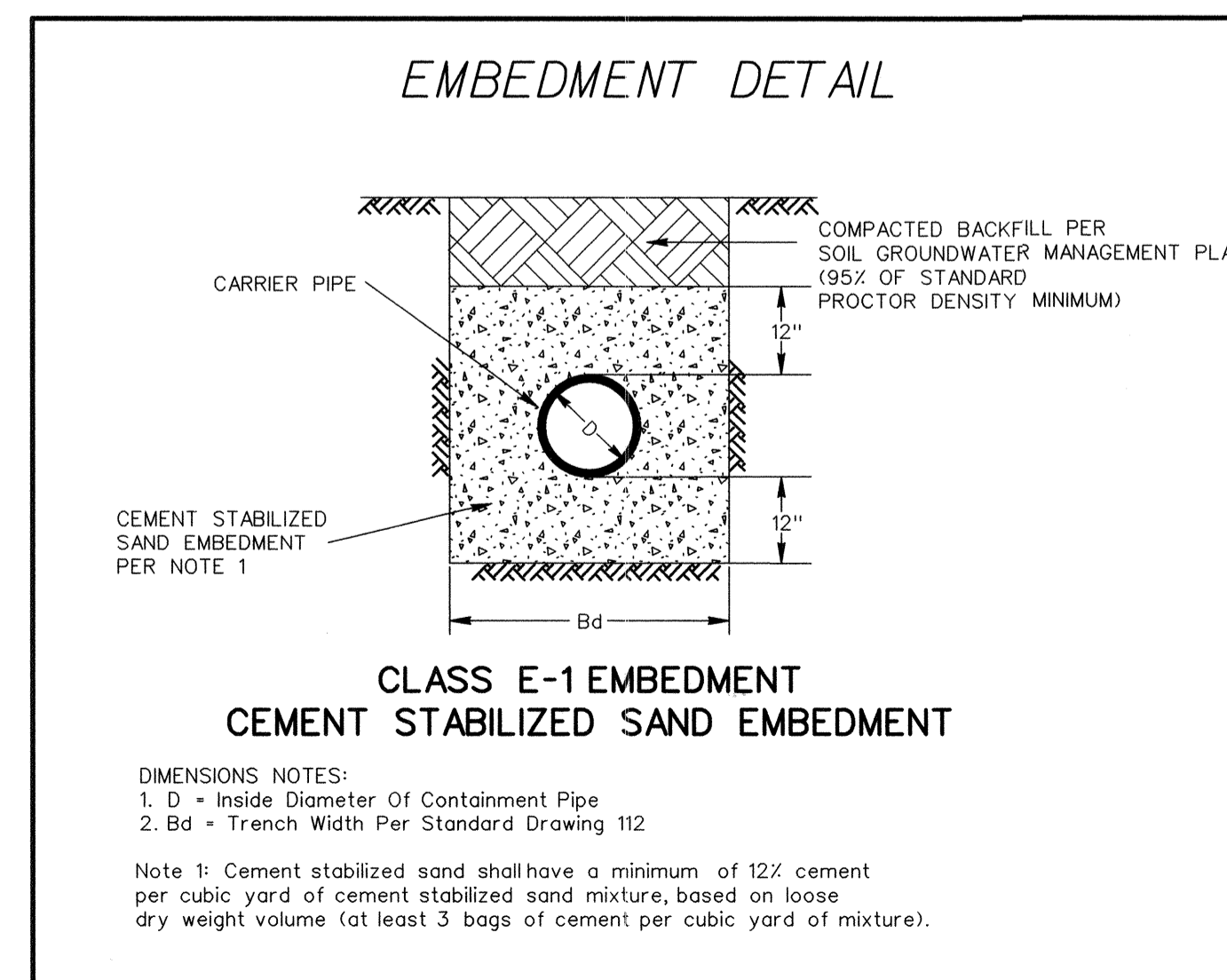
- The Contractor shall maintain existing wastewater flow at all times. NO SEPARATE PAY ITEM.
- Abandon all manholes on abandoned wastewater mains.
- The Contractor shall verify the location of all wastewater laterals and construct new laterals from the wastewater main to the property line with cleanouts and reconnect to the existing laterals. Dye testing may be required at no additional cost to the owner.
- The backfill around manholes located in existing or new pavement shall be flowable backfill as per NCTCOG Specification Item 6.2J(OIG). NO SEPARATE PAY ITEM.

ENVIRONMENTAL - SOIL & GROUNDWATER MANAGEMENT

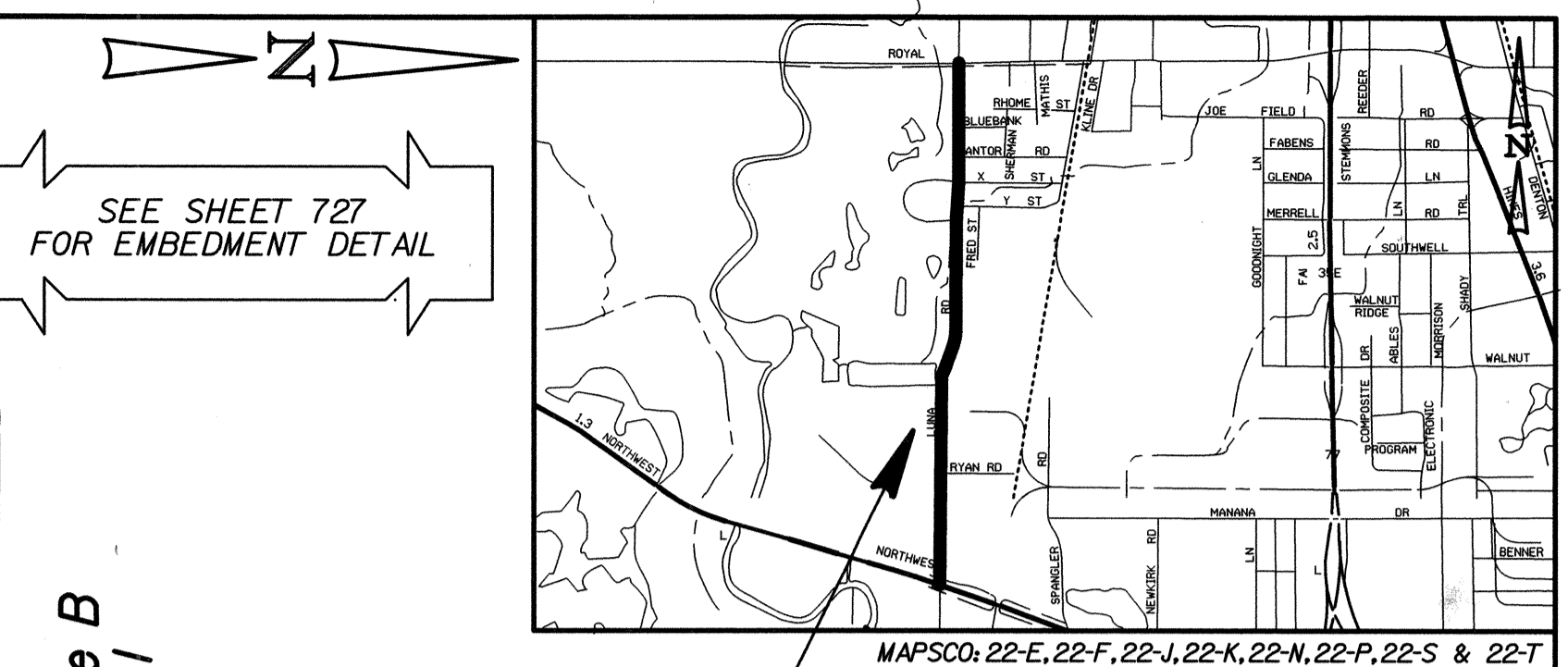
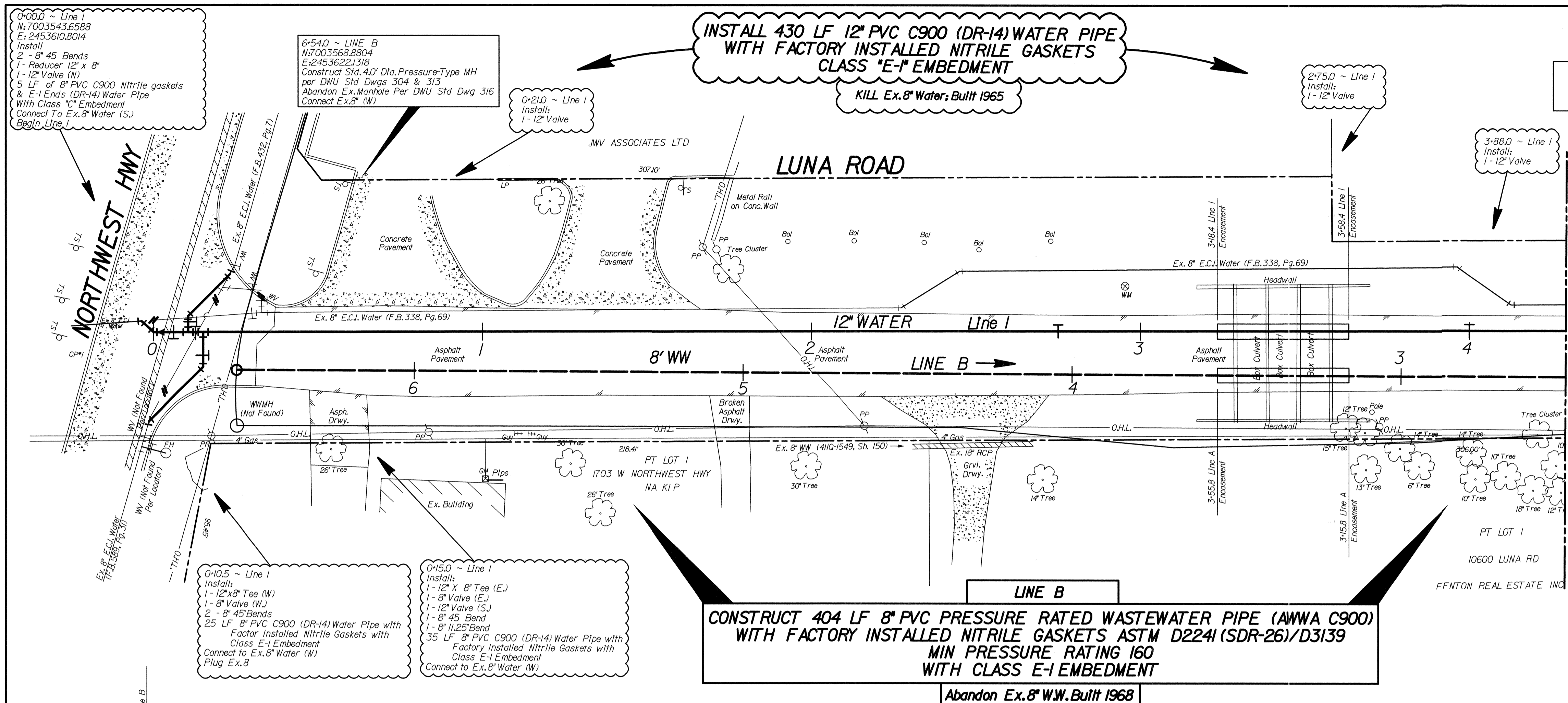
- Contaminated soils and groundwater have been encountered along the entire length of this project. Highly contaminated soil and groundwater have been encountered between sta 53+00 and sta 78+00.
- Special embedment and clay dams are required throughout this project.
- The high contamination affected zone requires steel pipes and cathodic protection in addition to the special embedment.
- The Contractor shall refer to the Soil and Groundwater Management Plan (SGMP) for how to collect, restore, dispose and otherwise manage the contaminated soils and groundwater encountered in the project. Contractor shall conform to the material management, disposal, and reporting requirements set forth in the SGMP included in the contract documents.
- Groundwater must be tested for Molybdenum and Tetramethylammonium hydroxide (TMAH) prior to application of the PALS discharge permit.
- Contractor must apply for a discharge permit from DWU-PALS for discharging any contaminated groundwater into the wastewater collection system. The discharge permit must be granted prior to start of construction.

CATHODIC PROTECTION

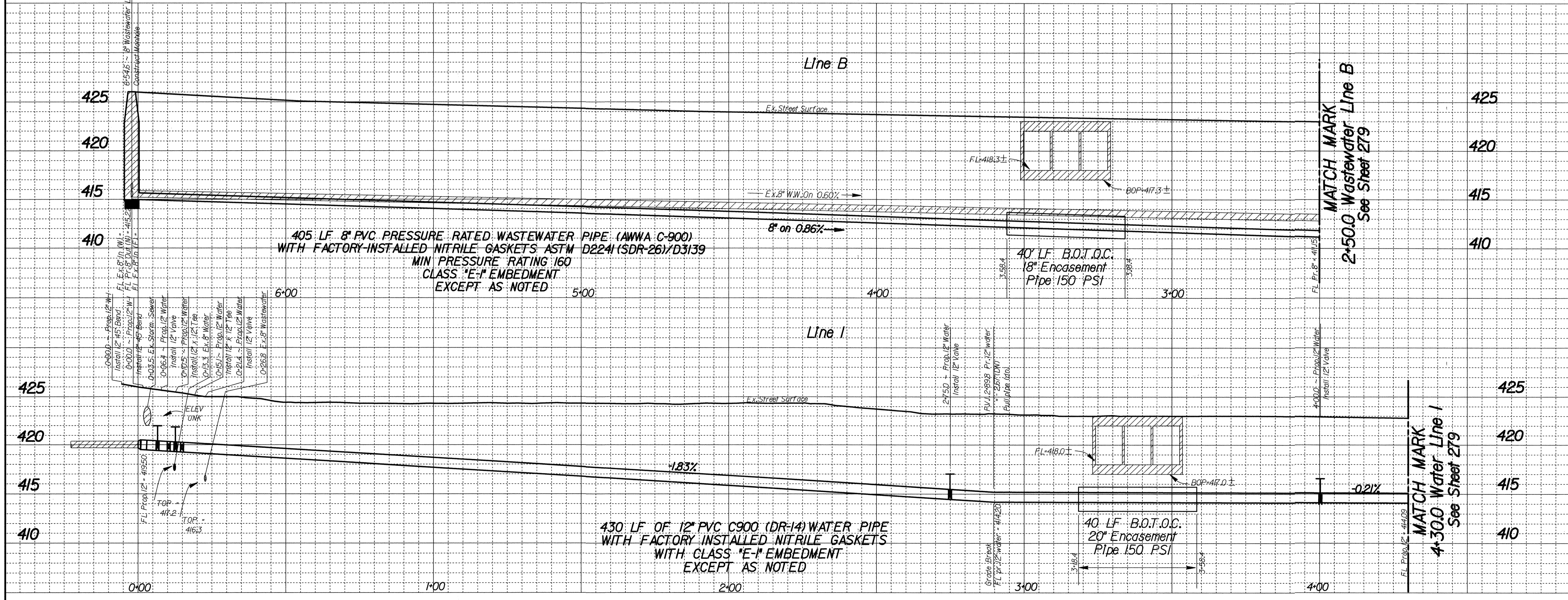
- The Contractor shall install the cathodic protection system between sta 53+00 and sta 78+00 per the technical specifications included in the Contract Documents.



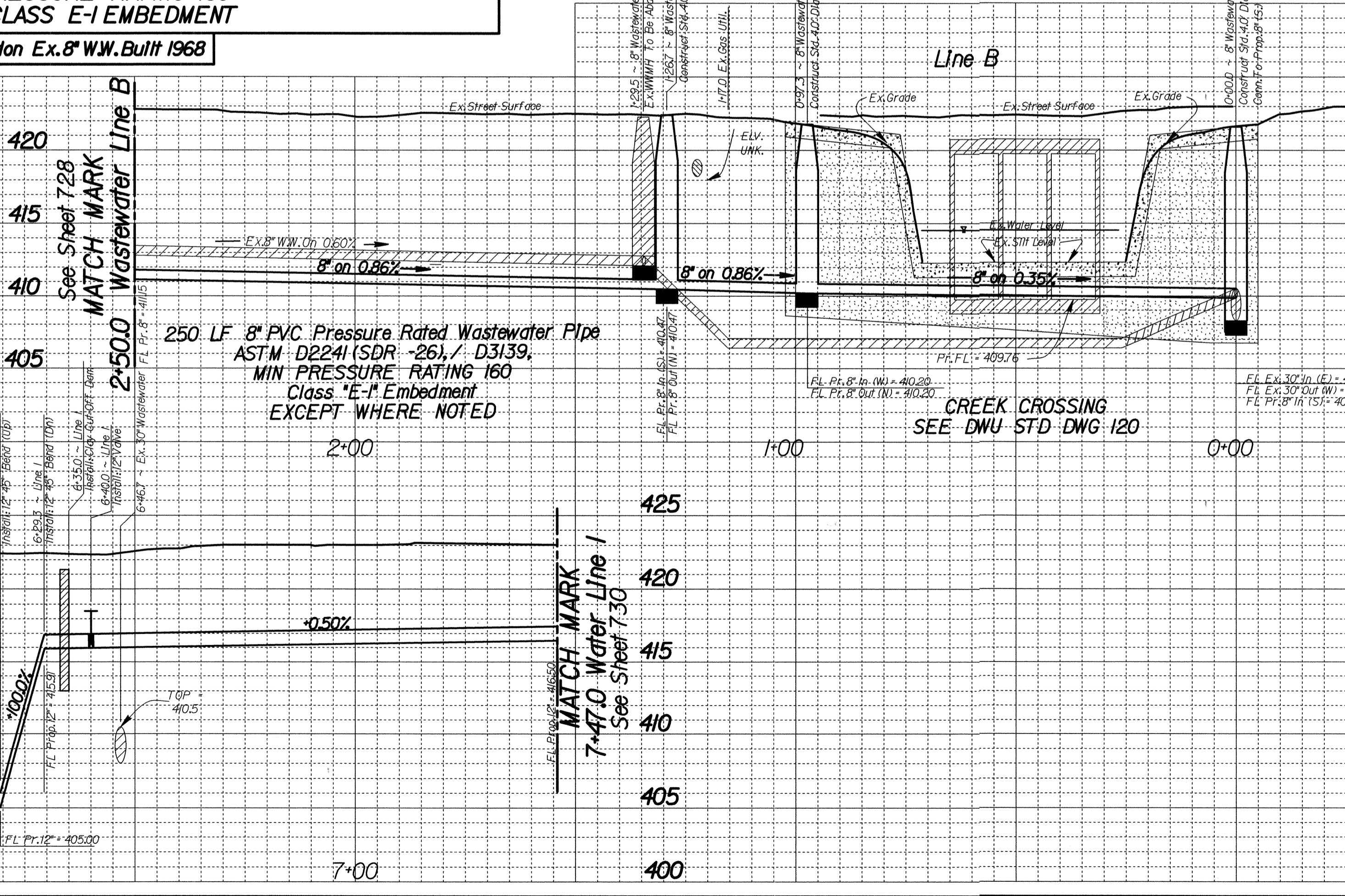
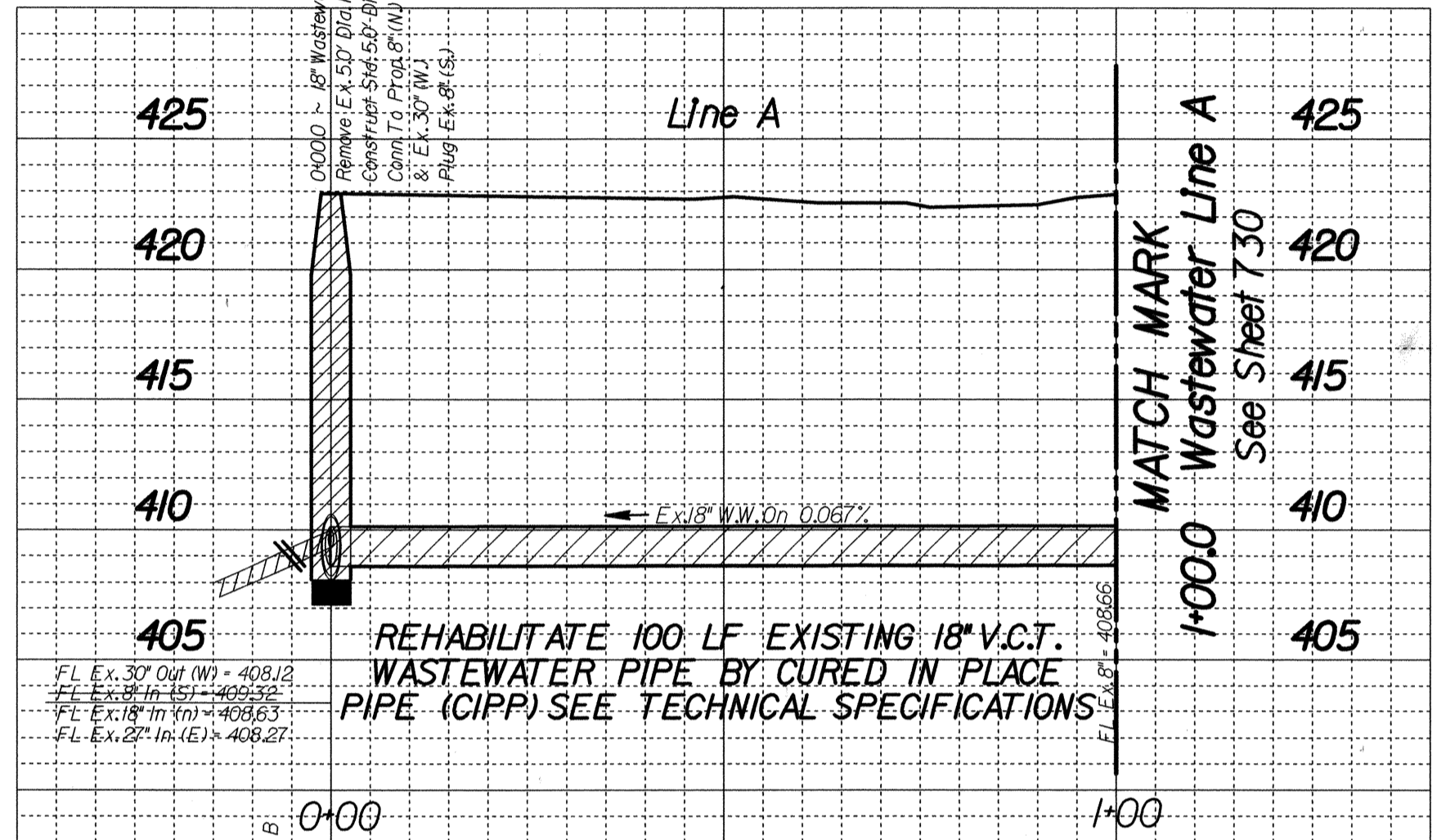
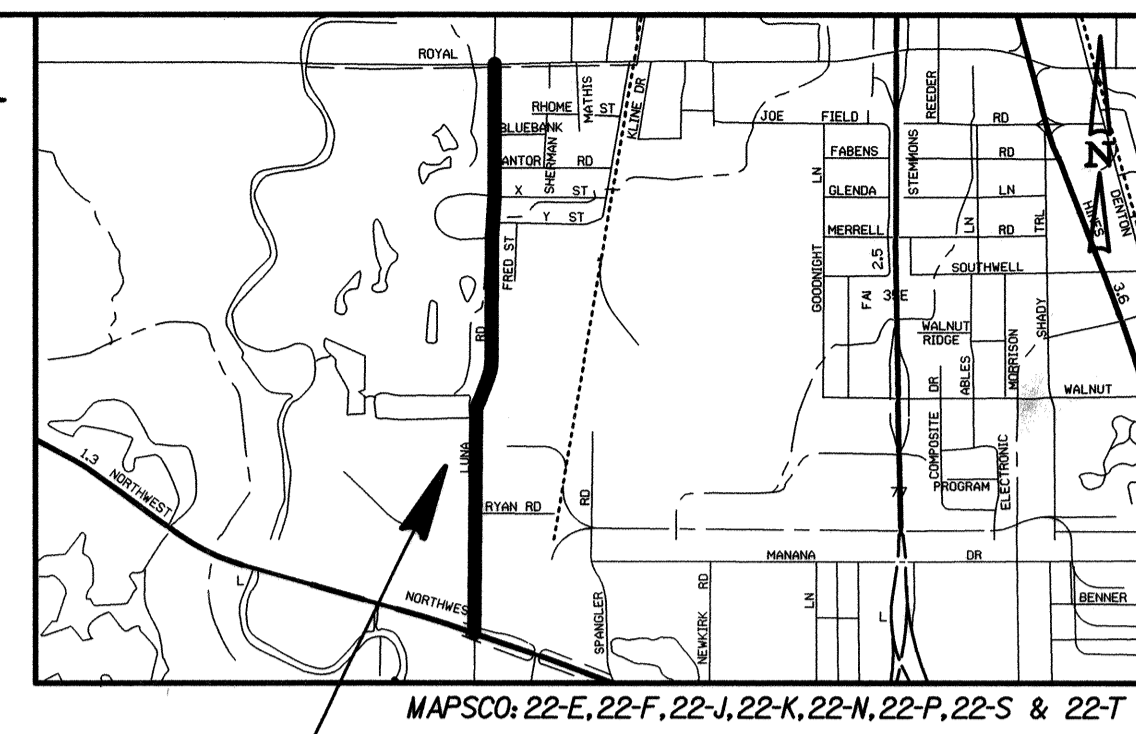
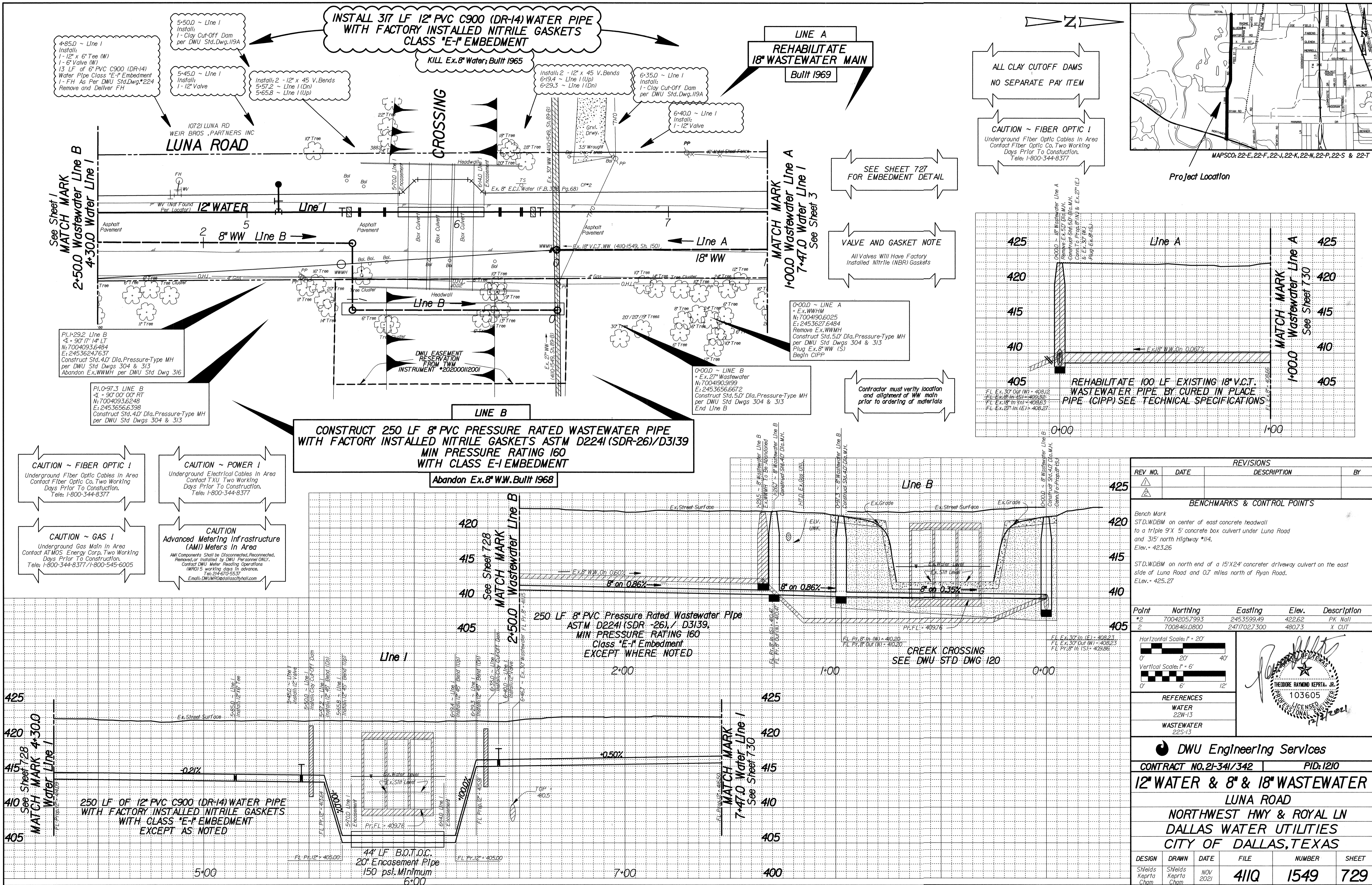
DWU Engineering Services					
CONTRACT NO. 21-341/342			PID: 1210		
12" WATER & 8" WASTEWATER					
LUNA ROAD					
NORTHWEST HWY & ROYAL LN					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Kepria Cham	Shields Kepria Cham	NOV 2021	411Q	1549	727



- Project Location**
- Contractor must verify location and alignment of WW main prior to ordering of materials**
- ALL CLAY CUTOFF DAMS NO SEPARATE PAY ITEM**
- CAUTION ~ FIBER OPTIC !**
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ GAS !**
Underground Gas Main In Area Contact ATMOS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377 / 1-800-545-6005
- VALVE AND GASKET NOTE**
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets
- CAUTION ~ TELEPHONE !**
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ POWER !**
Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION**
Advanced Metering Infrastructure (AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected, Replaced or Installed by DWU Personnel ONLY. Contact DWU Meter Reading Operations (MRO) 5 working days in advance. Tel: 214-675-5537 Email: DWUMRO@dallascityhall.com



REVISIONS					
REV NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9' x 5' concrete box culvert under Luna Road and 315' north Highway #14. Elev. = 423.26					
STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27					
Point	Northing	Easting	Elev.	Description	
1	7003524.0920	2453616.8980	426.73	X CUT	
2	7004205.7993	2453599.4903	422.26	X CUT	
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 22W-13, 22W-12					
WASTEWATER 22S-13, 22S-12					
DWU Engineering Services					
CONTRACT NO. 21-341/342			PID: 1210		
8" & 12" WATER & 8" WASTEWATER					
LUNA ROAD					
NORTHWEST HWY & ROYAL LN					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Kepria Cham	Shields Kepria Cham	NOV 2021	411Q	1549	728



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS			
Bench Mark			
STD.WDBM on center of east concrete headwall to a triple 9'x 5' concrete box culvert under Luna Road and 315' north Highway #14.			Elev. = 423.26
STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road.			Elev. = 425.27

Point	Northing	Easting	Elev.	Description
#2	7004205.7993	2453599.49	422.62	PK Nail
2	7008461.0800	2471027.300	480.73	X CUT

Horizontal Scale: 1" = 20'

Vertical Scale: 1" = 6'

REFERENCES
WATER 22W-13
WASTEWATER 22S-13

DWU Engineering Services

CONTRACT NO. 21-341/342 PID: 1210

12" WATER & 8" & 18" WASTEWATER

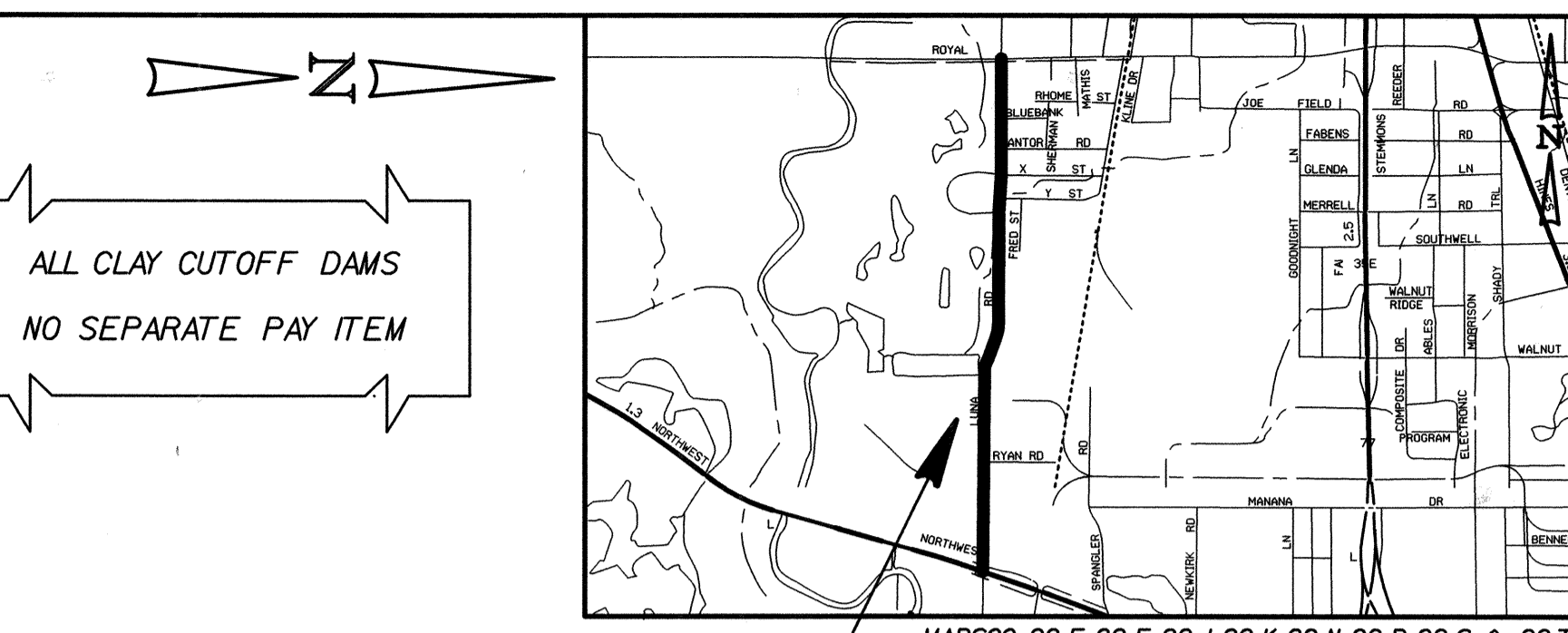
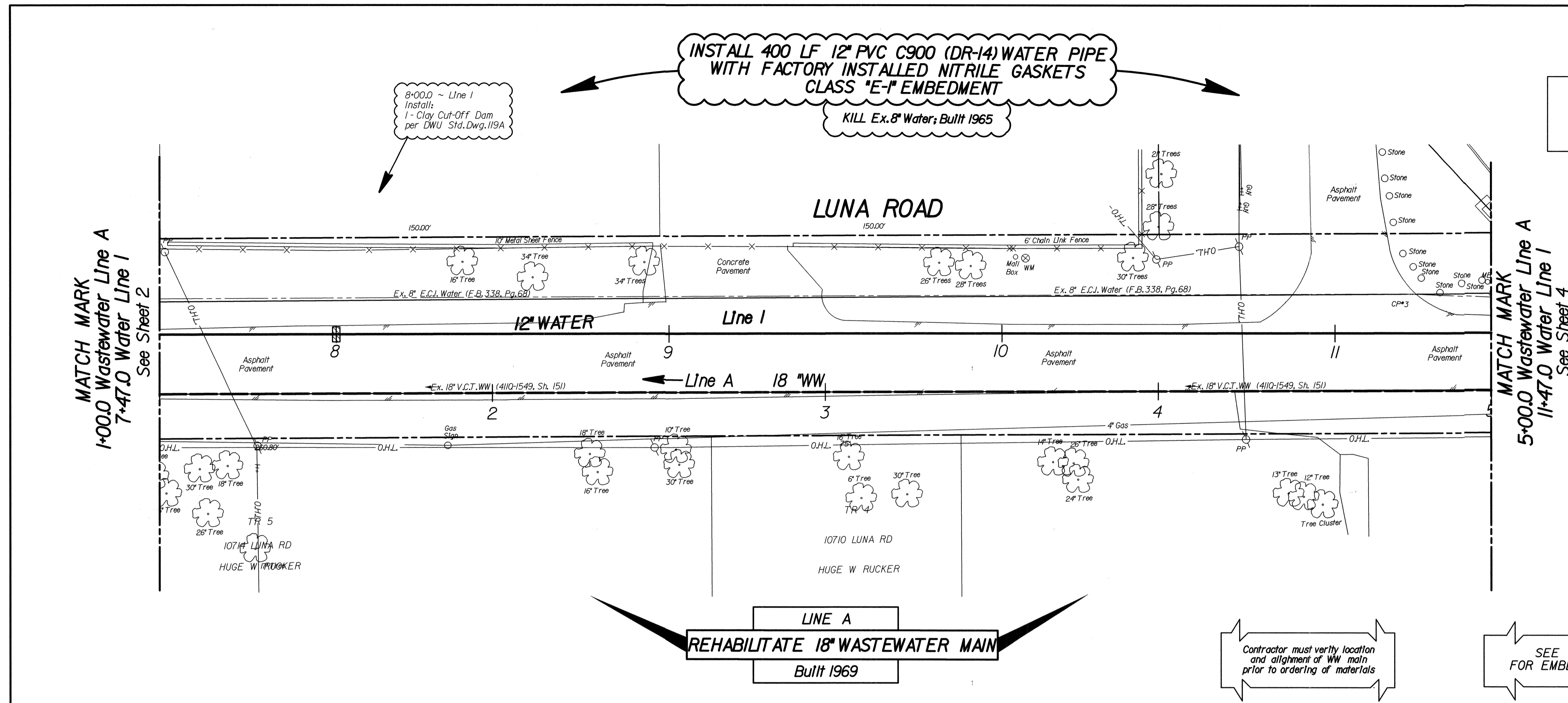
LUNA ROAD

NORTHWEST HWY & ROYAL LN

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Kasrta Cham	Shields Kasrta Cham	NOV 2021	411Q	1549	729



**ALL CLAY CUTOFF DAMS
NO SEPARATE PAY ITEM**

VALVE AND GASKET NOTE
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

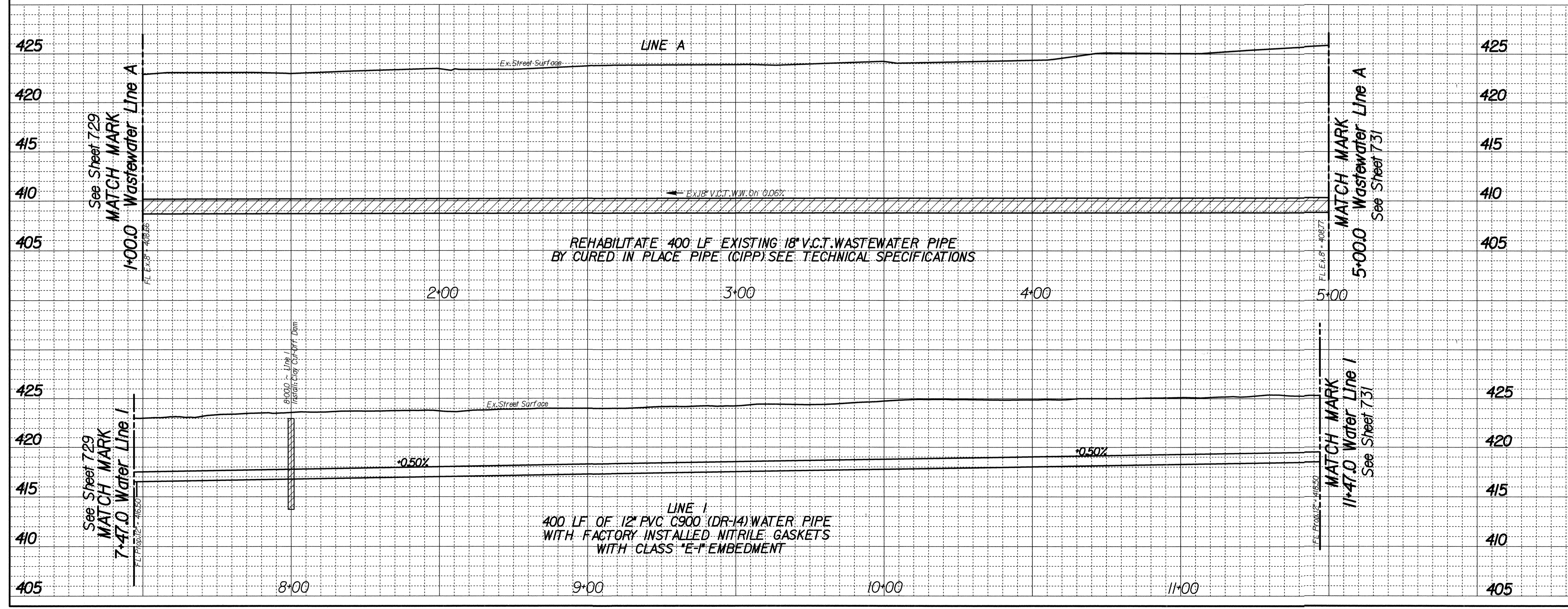
CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&T Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005

**CAUTION
Advanced Metering Infrastructure (AMI) Meters In Area**
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Contact DWU Meter Reading Operations (MRO) 5 working days in advance.
Tel: 214-671-5537
Email: DWUMRO@dallaswater.com

REHABILITATE 18\"/>



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Bench Mark
STD.WDBM on center of east concrete headwall to a triple 9'X 5' concrete box culvert under Luna Road and 315' north Highway #114.
Elev. = 423.26

STD.WDBM on north end of a 15'X24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road.
Elev. = 425.27

Point	Northing	Easting	Elev.	Description
*2	7004205.7993	2453599.49	422.62	PK Nail
*3	7004666.2577	2453597.4482	425.57	PK Nail

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

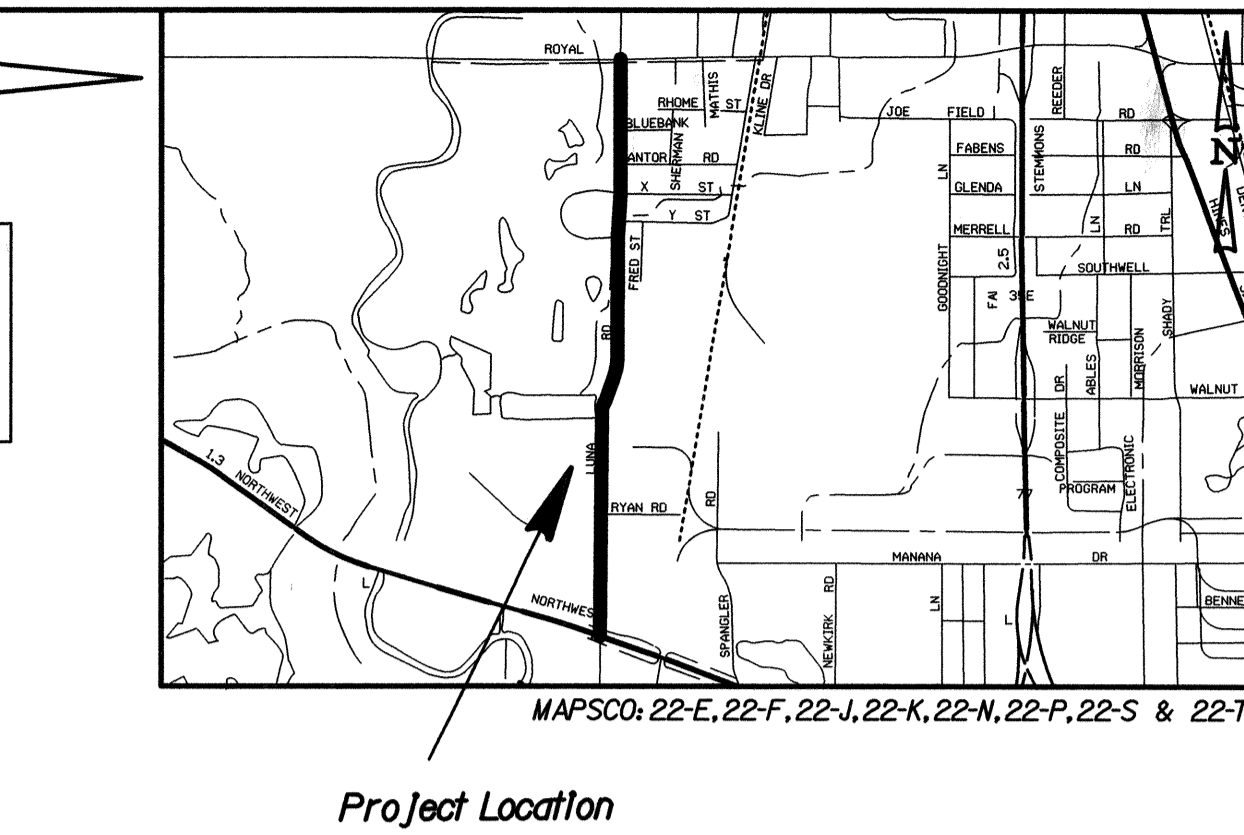
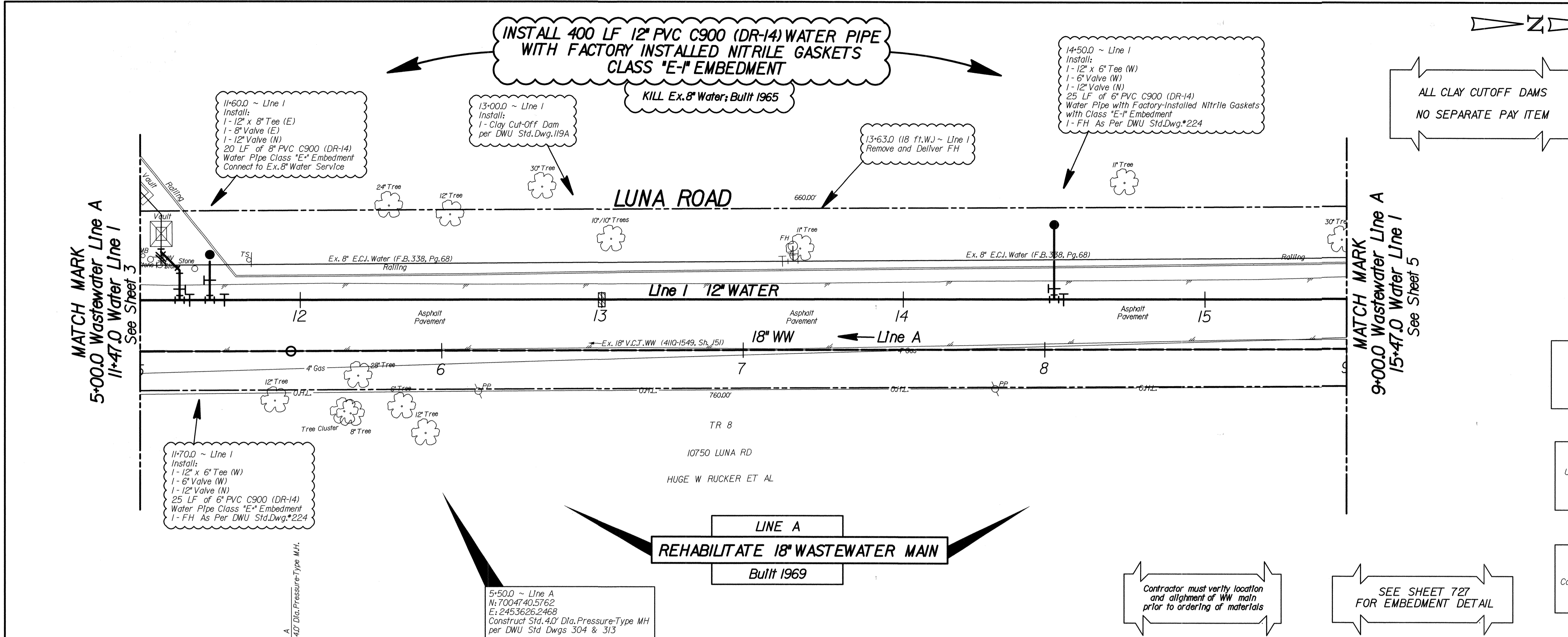
REFERENCES

WATER
43W-21, 43W-22, 44W-21 & 44W-22

WASTEWATER
BH-4, 43S-21 & 43S-22

DWU Engineering Services
CONTRACT NO. 21-341/342 | PID: 1210
12\"/>

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Keptra Cham	Shields Keptra Cham	NOV 2021	411Q	1549	730



VALVE AND GASKET NOTE
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets

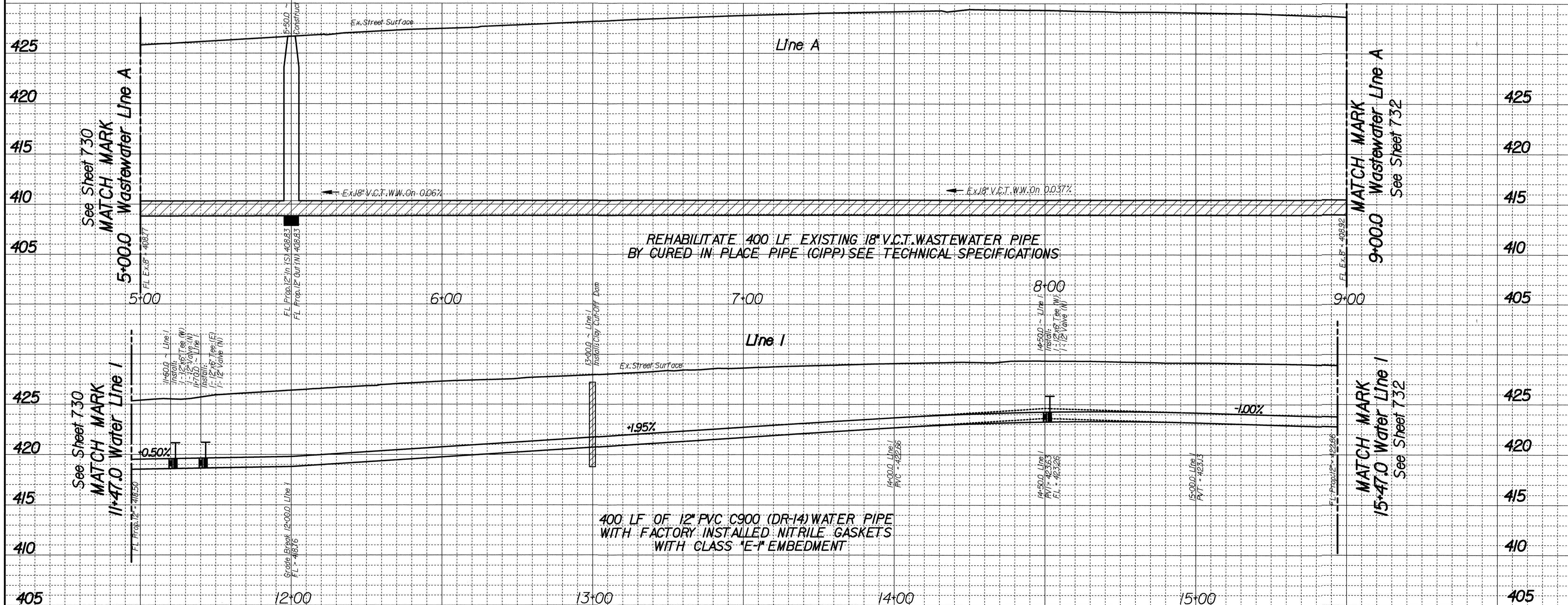
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377

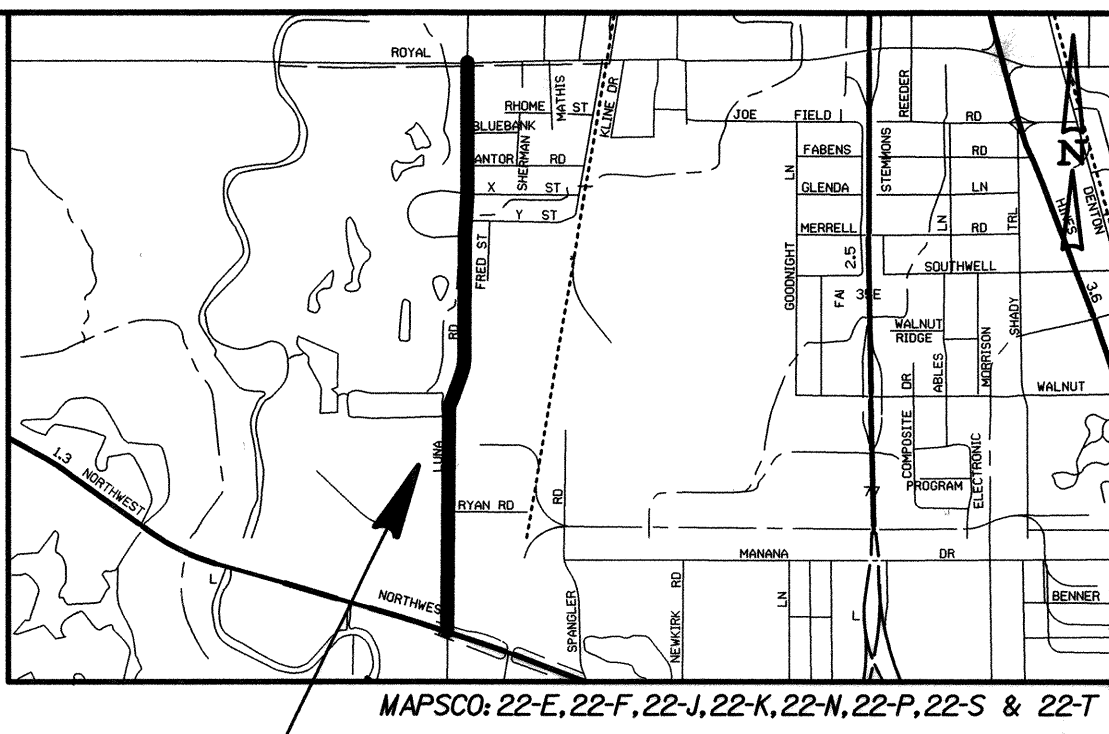
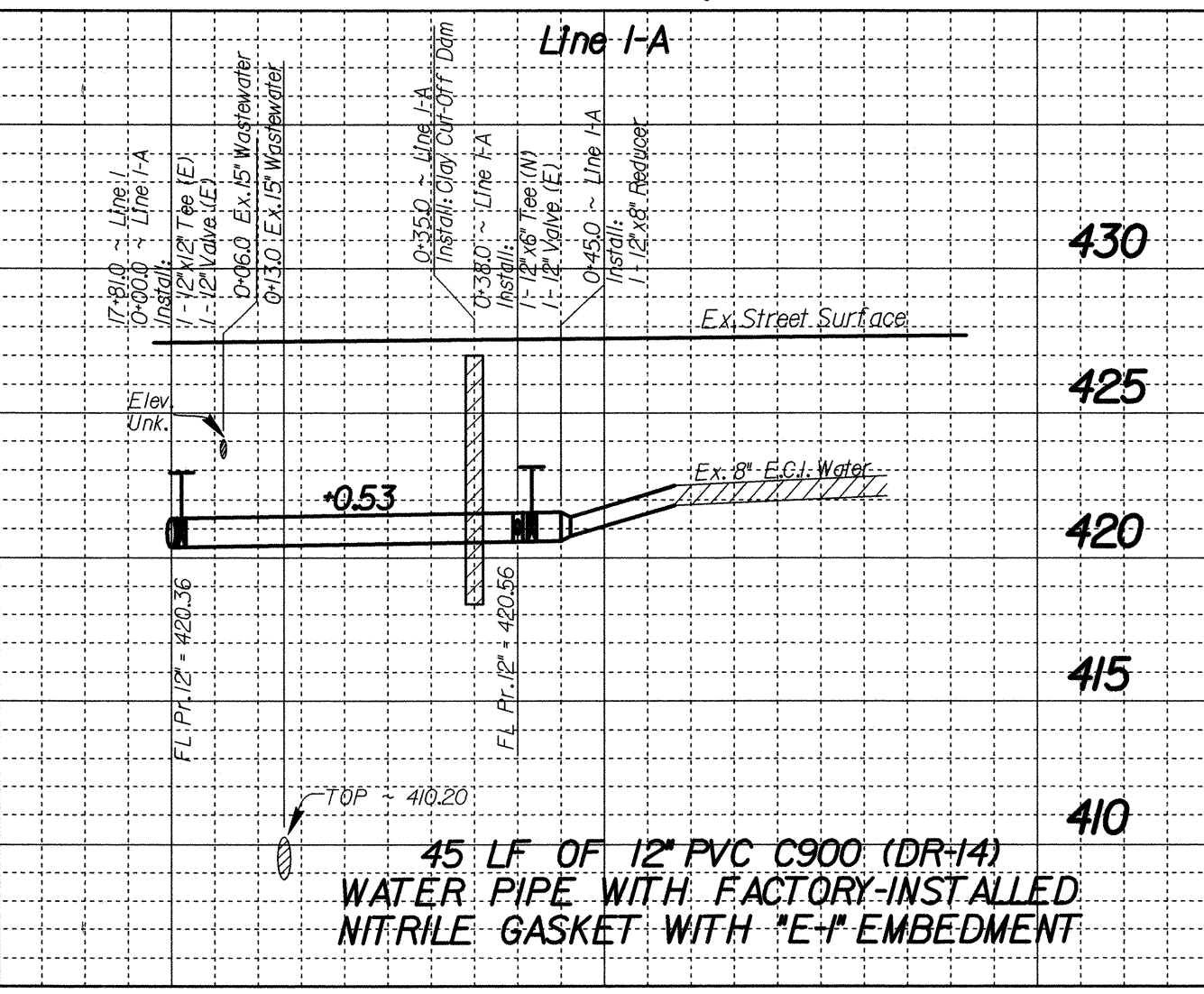
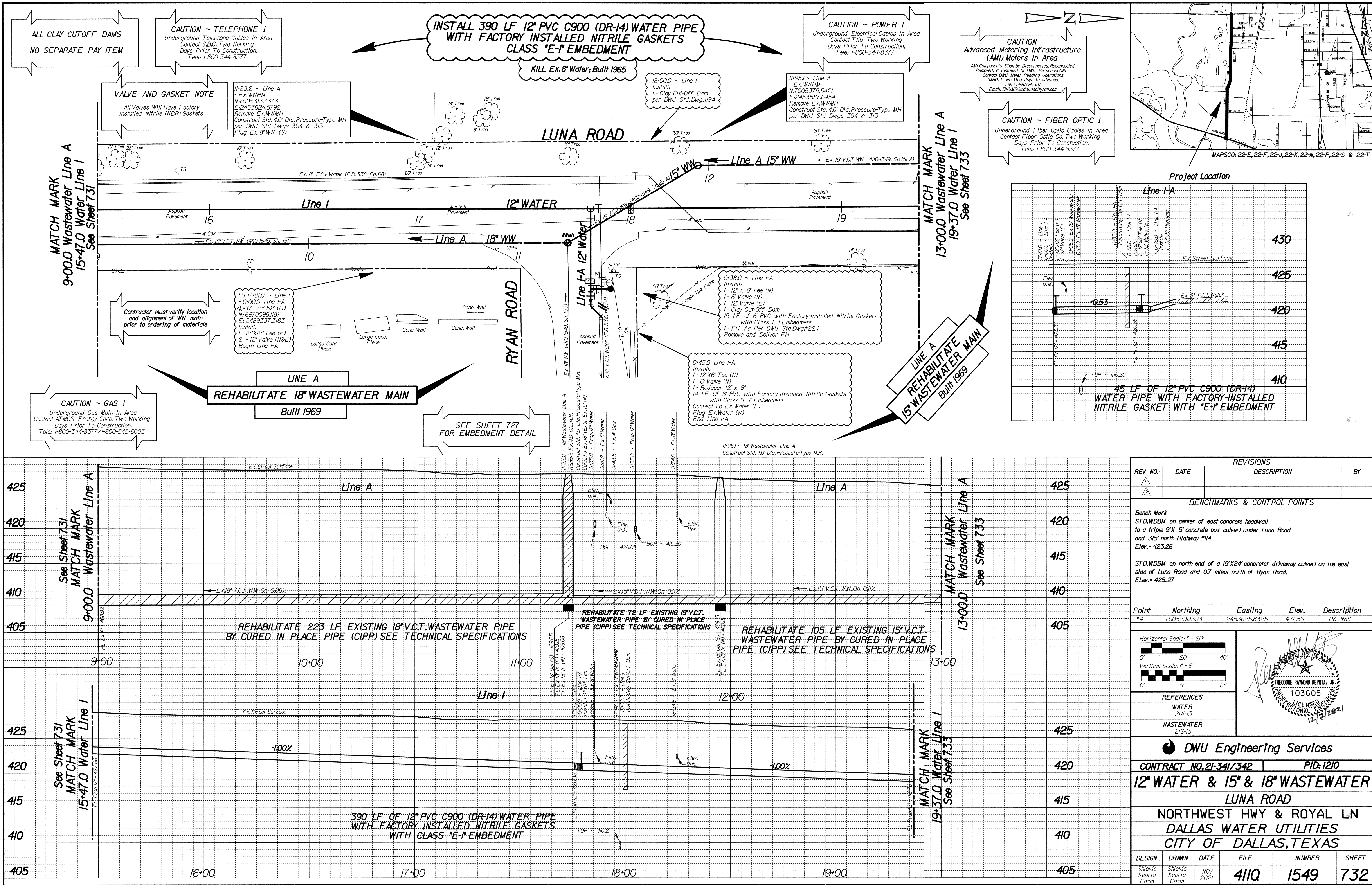
CAUTION ~ POWER !
Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area Contact ATMOS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377 / 1-800-545-6005

CAUTION
Advanced Metering Infrastructure (AMI) Meters In Area
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REVISIONS				
REV NO.	DATE	DESCRIPTION	BY	
BENCHMARKS & CONTROL POINTS				
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9' X 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. = 423.26				
STD.WDBM on north end of a 15'X24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27				
Point	Northing	Easting	Elev.	Description
*3	7004666.2577	2453597.4482	425.57	PK Nail
*4	7005291.393	2453625.8325	427.56	PK Nail
Horizontal Scale: 1" = 20'				
Vertical Scale: 1" = 6'				
REFERENCES				
WATER		21W-13		
WASTEWATER		21S-13		
CONTRACT NO. 21-341/342		PID: 1210		
12" WATER & 18" WASTEWATER				
LUNA ROAD				
NORTHWEST HWY & ROYAL LN				
DALLAS WATER UTILITIES				
CITY OF DALLAS, TEXAS				
DESIGN	DRAWN	DATE	FILE	NUMBER
Shields Keppta Cham	Shields Keppta Cham	NOV 2021	411Q	1549
				SHEET
				731



Project Location
 MAPSCO: 22-E, 22-F, 22-J, 22-K, 22-N, 22-P, 22-S & 22-T

REVISIONS				
REV. NO.	DATE	DESCRIPTION	BY	

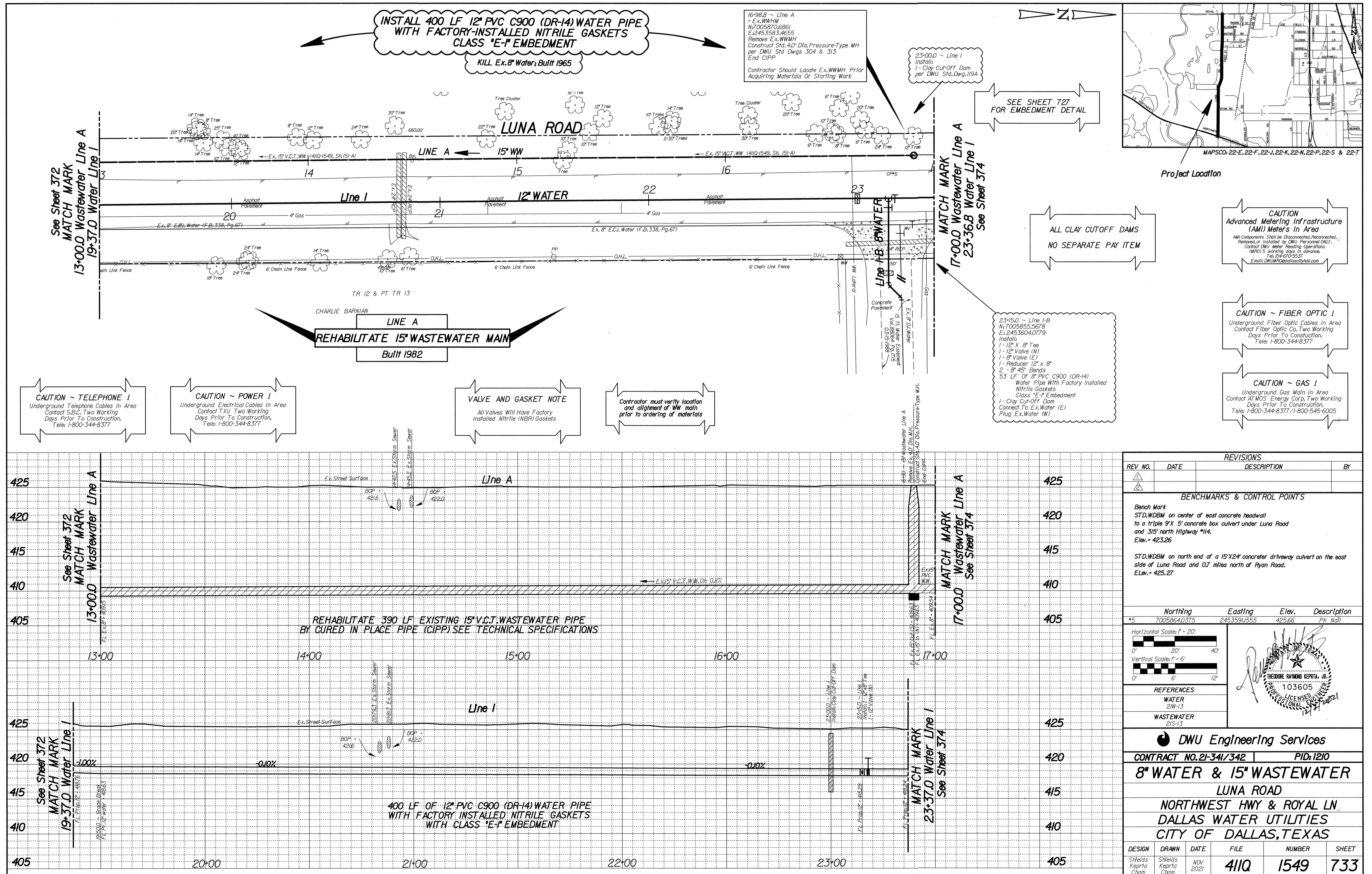
Point	Northing	Eastng	Elev.	Description
#4	7005291393	24536258325	427.56	PK Nail

Horizontal Scale: 1" = 20'
 Vertical Scale: 1" = 6'

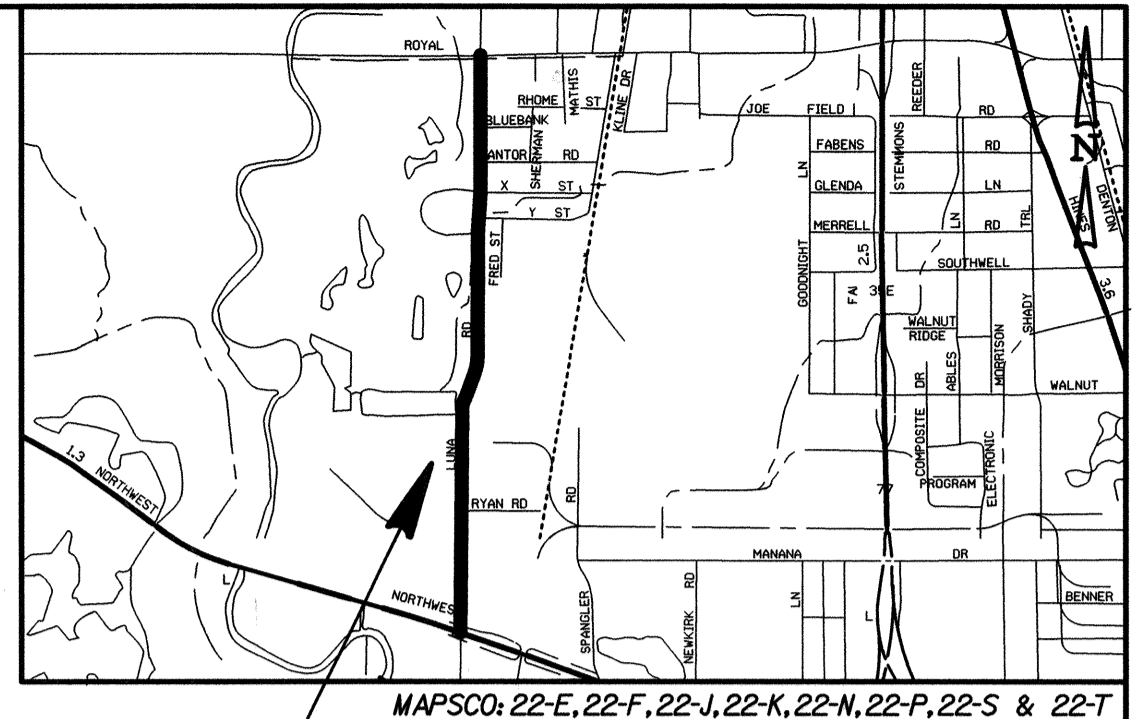
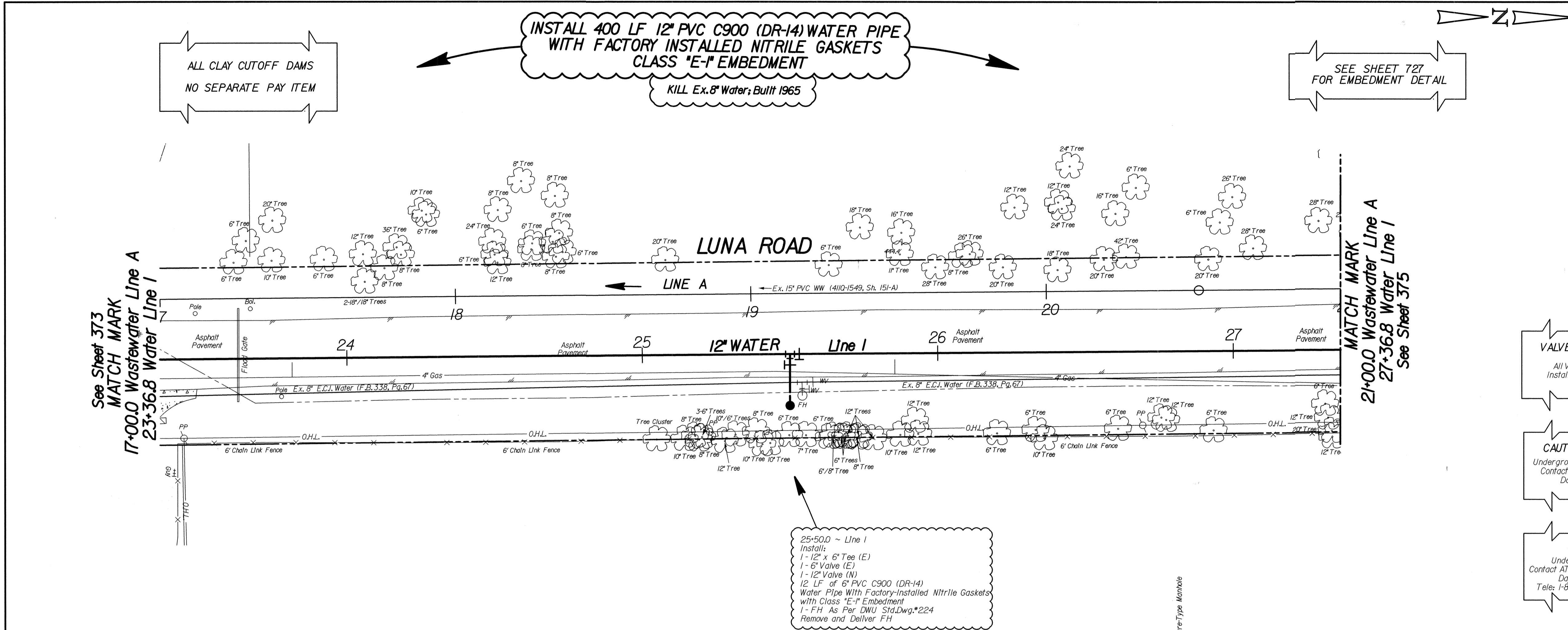
REFERENCES
 WATER 2W-13
 WASTEWATER 2WS-13

DWU Engineering Services
 CONTRACT NO. 21-341/342 PID: 1210
12" WATER & 15" & 18" WASTEWATER
LUNA ROAD
 NORTHWEST HWY & ROYAL LN
 DALLAS WATER UTILITIES
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shelds Kepria Cham	Shelds Kepria Cham	NOV 2021	411Q	1549	732



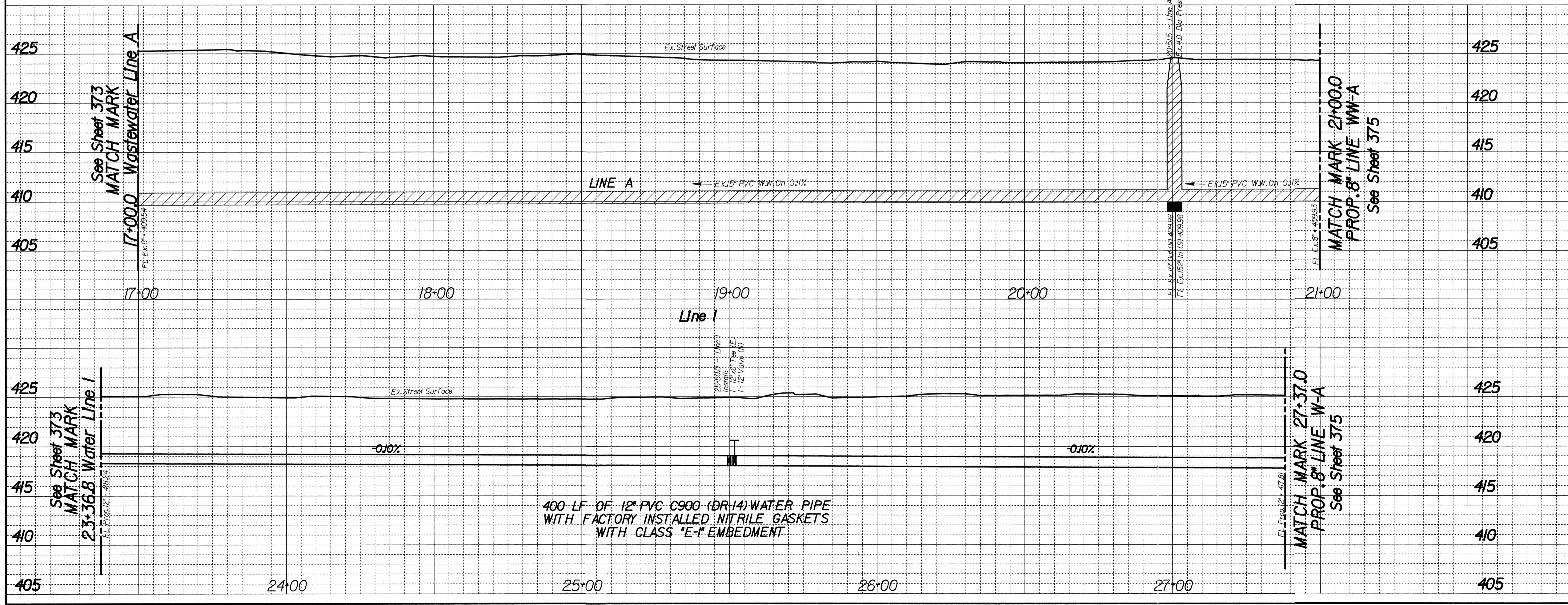
REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9'x 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. = 423.26			
STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27			
Northing	Easting	Elev.	Description
#5 7005864.0375	245359J555	425.66	PK Nail
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'	
REFERENCES		103605	
WATER 21W-13		THEODORE RAYMOND KEPRTA, JR. LICENSED PROFESSIONAL ENGINEER 12/17/2021	
WASTEWATER 21S-13			
CONTRACT NO. 21-341/342		PID: 1210	
8" WATER & 15" WASTEWATER LUNA ROAD NORTHWEST HWY & ROYAL LN DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
Shields Keprta Cham	Shields Keprta Cham	NOV 2021	411Q 1549 733



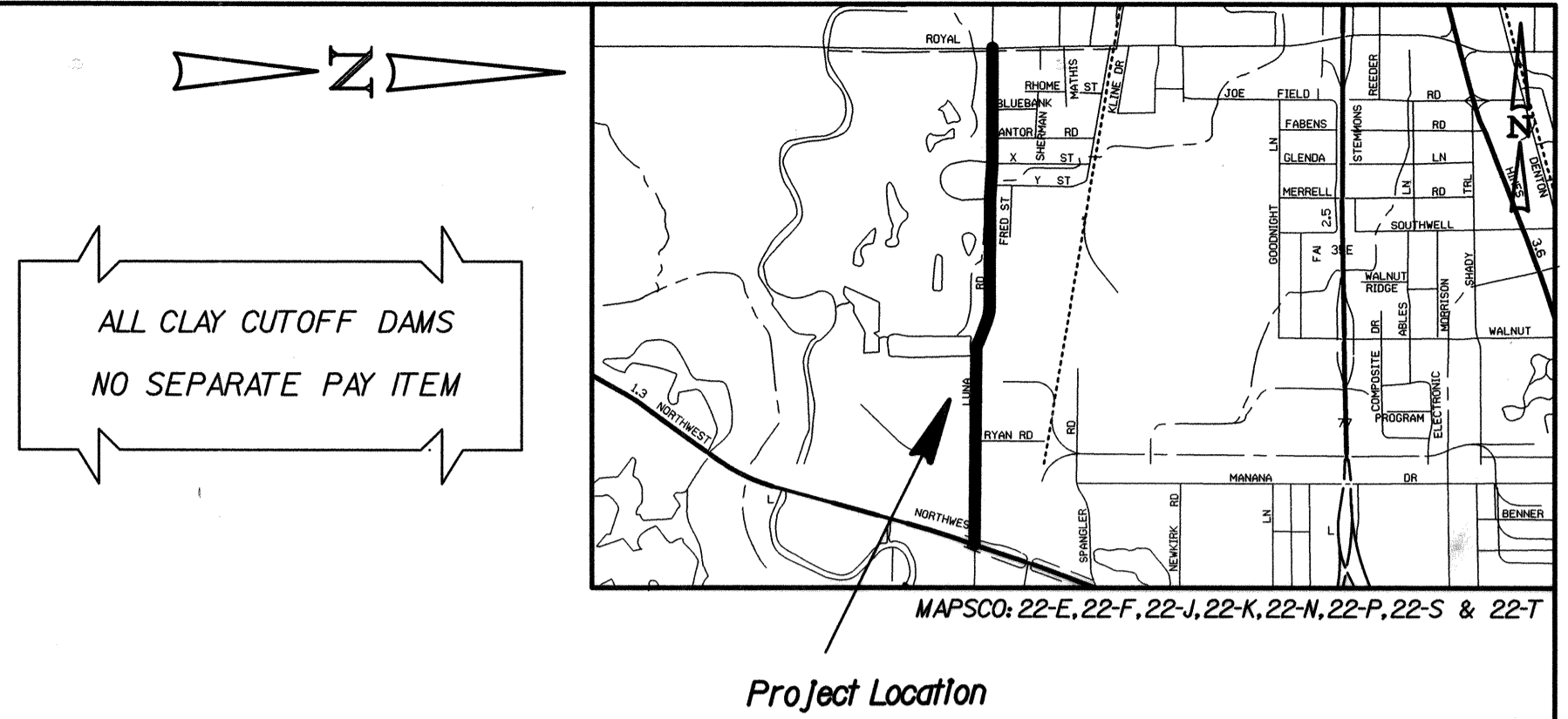
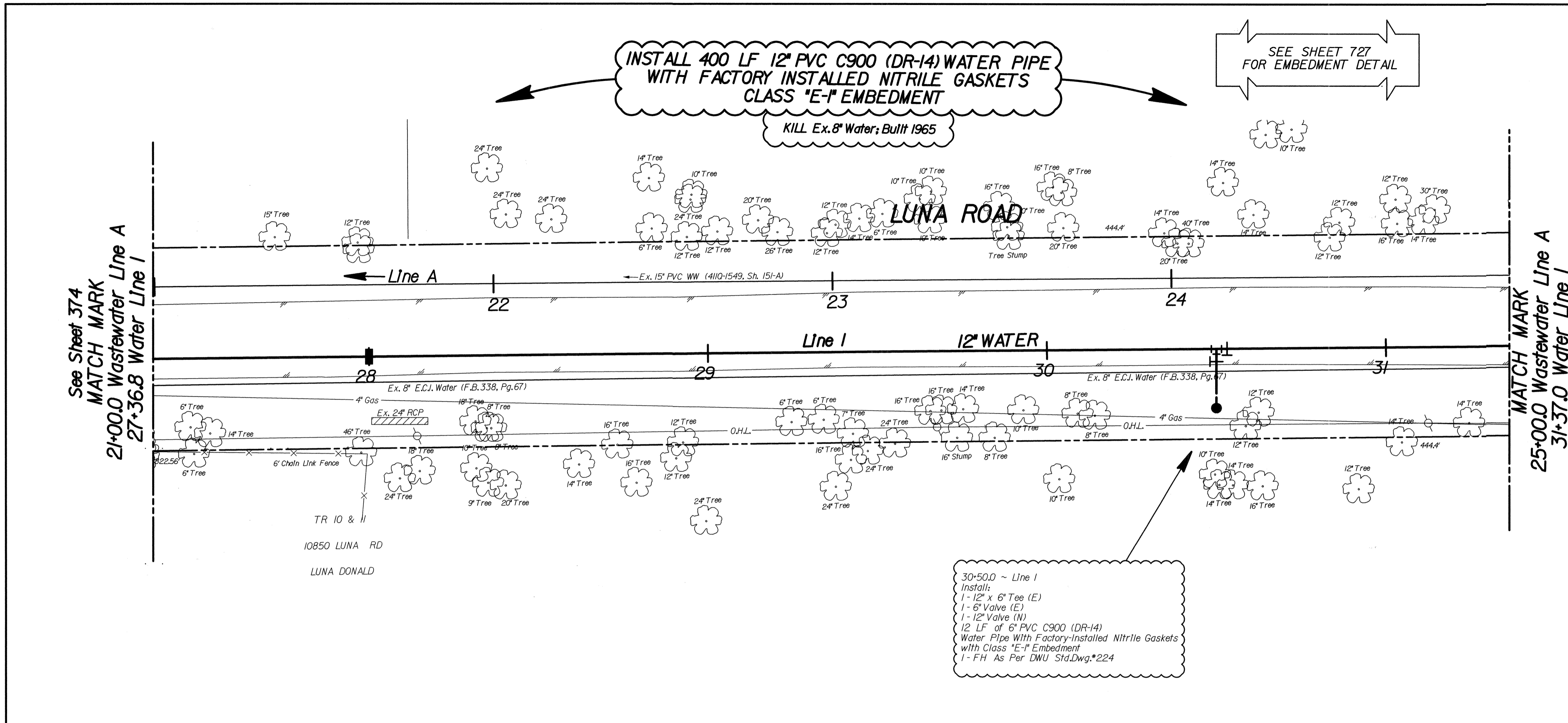
Project Location

- VALVE AND GASKET NOTE**
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets
- CAUTION ~ TELEPHONE !**
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ FIBER OPTIC !**
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ POWER !**
Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ GAS !**
Underground Gas Main In Area Contact AT&S Energy Corp. Two Working Days Prior To Construction. Contact DWU Meter Reading Operations (MRO) 5 working days in advance. Tele: 1-800-344-8377 / 1-800-545-6005. Email: DWUMRO@dallascityhall.com
- CAUTION Advanced Metering Infrastructure (AMI) Meters In Area**
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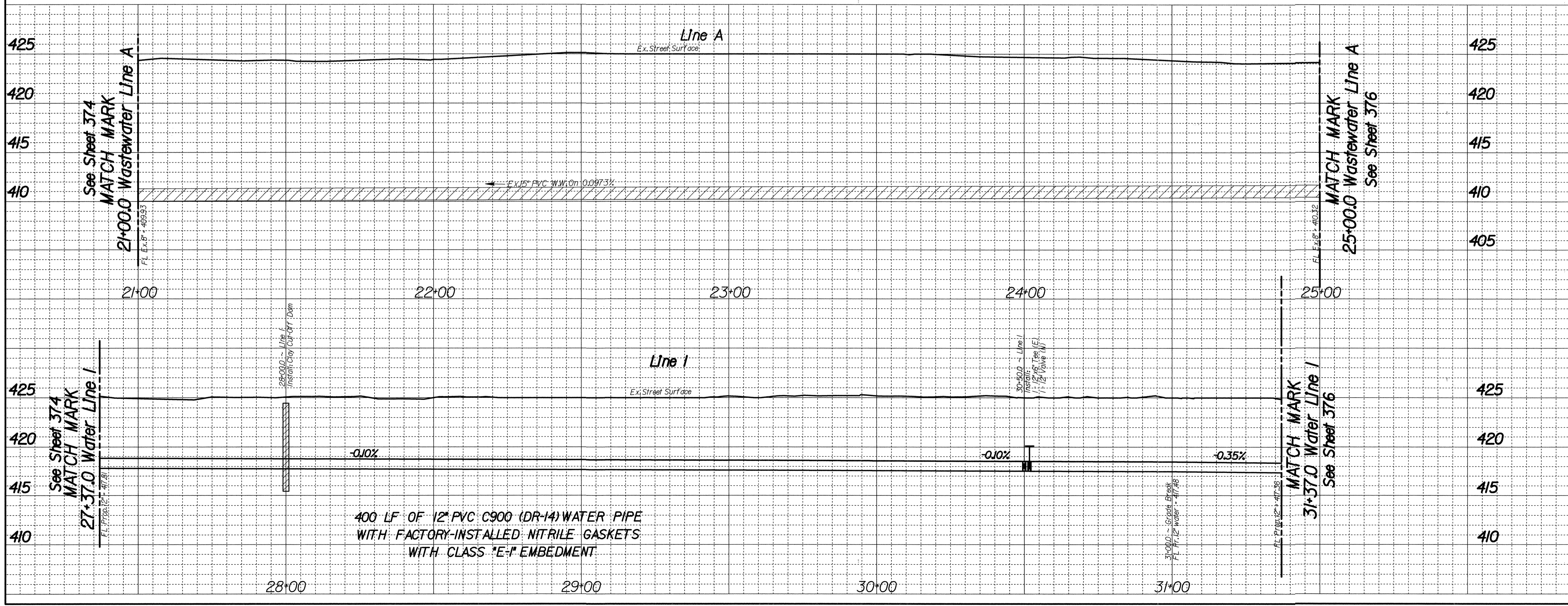
25+50.0 ~ Line 1
Install:
1-12" x 6" Tee (E)
1-6" Valve (E)
1-12" Valve (N)
12 LF of 6" PVC C900 (DR-14) Water Pipe With Factory-Installed Nitrile Gaskets with Class "E" Embedment
1-FH as Per DWU Std. Dwg. #224
Remove and Deliver FH



REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9' x 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. - 423.26					
STD.WDBM on north end of a 15' x 24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. - 425.27					
Point	Northing	Eastng	Elev.	Description	
*5	7005864.0375	4253591.555	425.66	PK Nail	
*6	7006317.3667	2453606.7027	424.77	PK Nail	
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 20N-13, 2W-13					
WASTEWATER 20S-13, 2S-13					
DWU Engineering Services					
CONTRACT NO. 21-341/342			PID: 1210		
12" WATER					
LUNA ROAD					
NORTHWEST HWY & ROYAL LN					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
S Shields Kepria Cham	S Shields Kepria Cham	NOV 2021	411Q	1549	734



- VALVE AND GASKET NOTE**
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets
- CAUTION ~ TELEPHONE !**
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ FIBER OPTIC !**
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ POWER !**
Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ GAS !**
Underground Gas Main In Area Contact AT&S Energy Corp. Two Working Days Prior To Construction. Contact DMU Meter Reading Operations (MRO) 5 working days in advance. Tele: 1-800-344-8377/1-800-545-6005. Email: DMUMRO@dallascityhall.com
- CAUTION Advanced Metering Infrastructure (AMI) Meters In Area**
AMI Components Shall be Disconnected, Reconnected, Removed, or Installed by DWU Personnel ONLY. Contact DMU Meter Reading Operations (MRO) 5 working days in advance. Tele: 214-670-5537. Email: DMUMRO@dallascityhall.com



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Bench Mark
STD.WDBM on center of east concrete headwall to a triple 9'x 5' concrete box culvert under Luna Road and 315' north Highway #14.
Elev. - 423.26

STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road.
Elev. - 425.27

Point #	Northing	Eastng	Elev.	Description
6	7006317.3667	2453606.7027	424.77	PK Nail

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

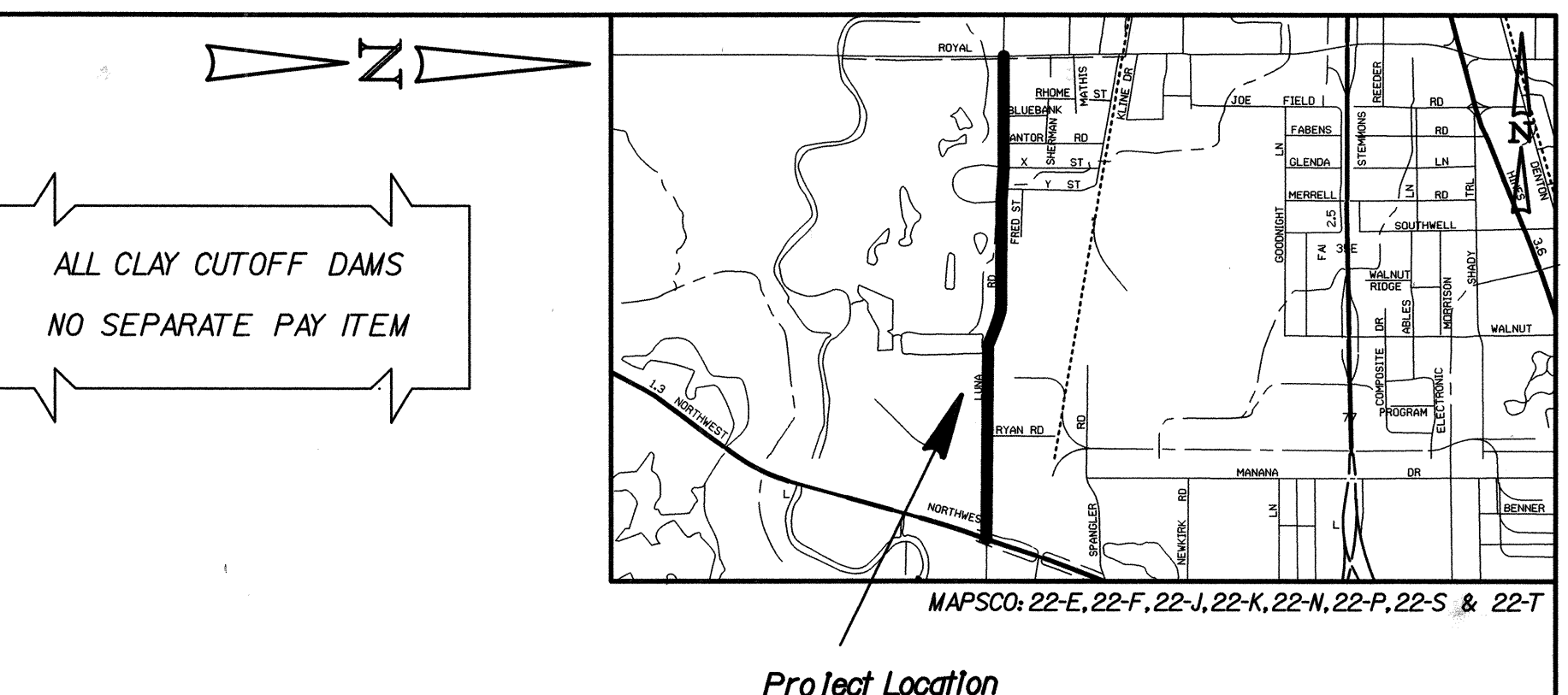
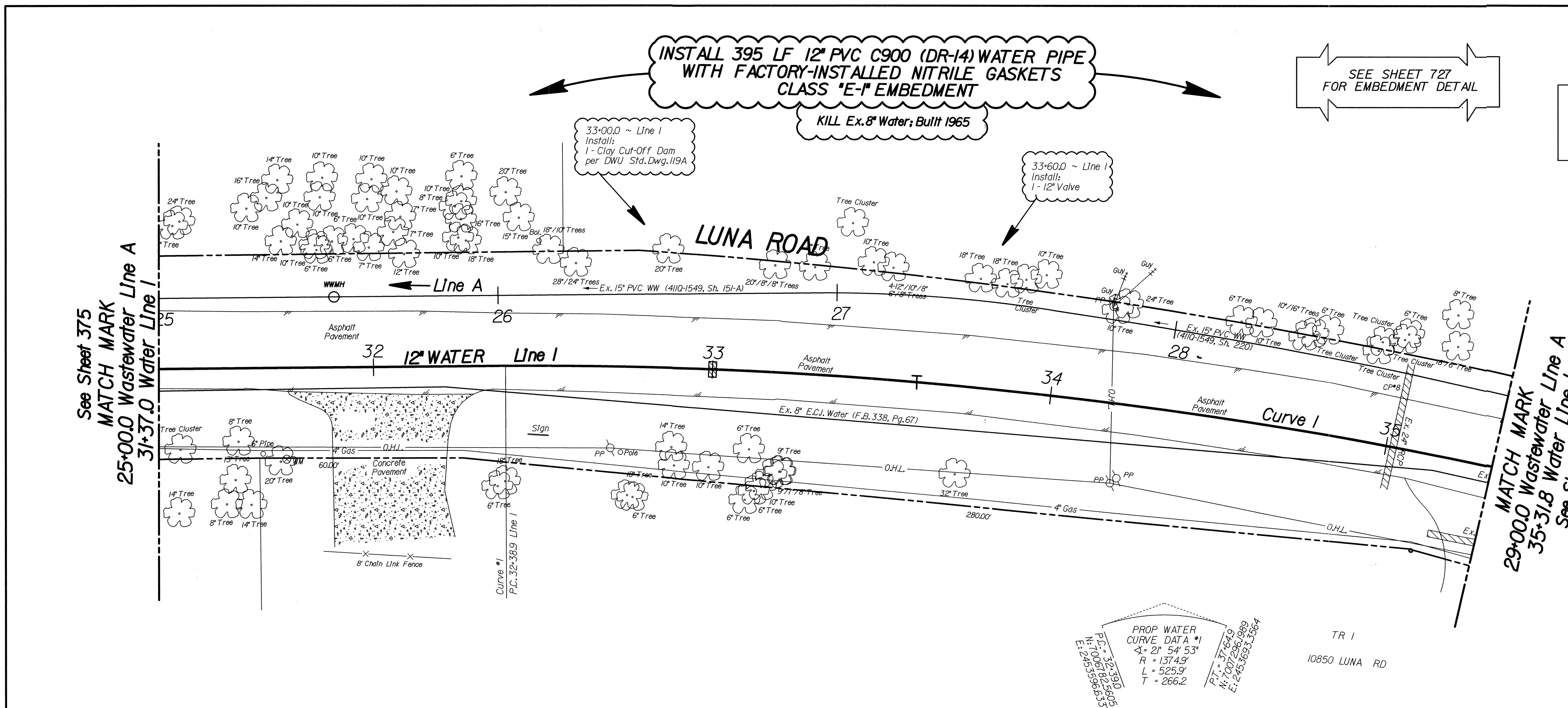
REFERENCES

- WATER 20W-13
- WASTEWATER 20S-13

DWU Engineering Services
CONTRACT NO. 21-341/342 | PID: 1210

12" WATER
LUNA ROAD
NORTHWEST HWY & ROYAL LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Keprta Cham	Shields Keprta Cham	NOV 2021	411Q	1549	735



VALVE AND GASKET NOTE
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets

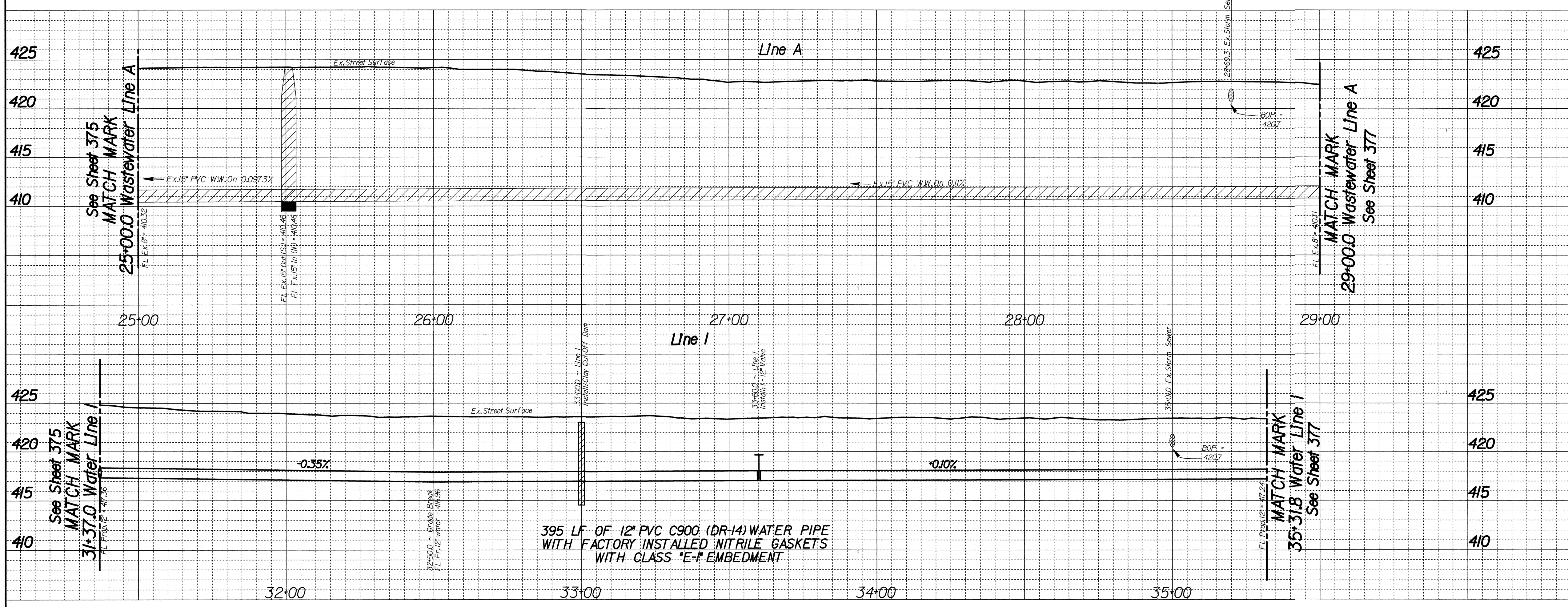
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377

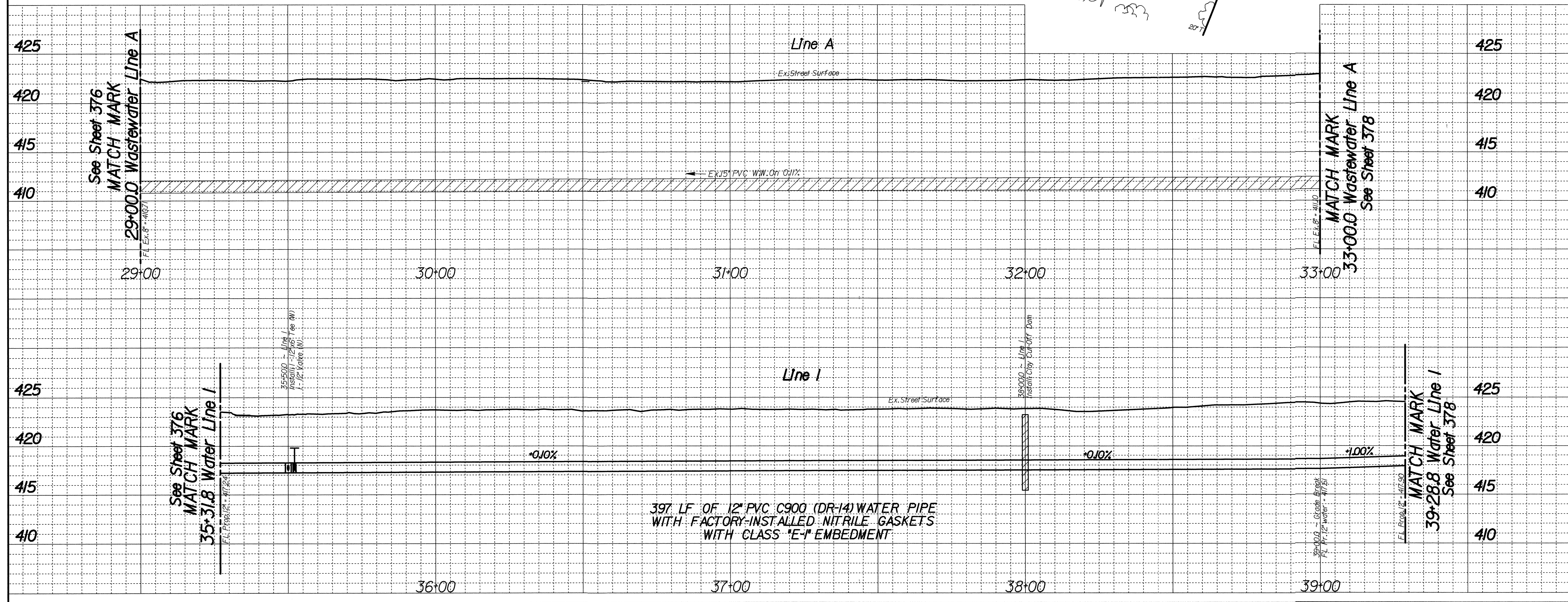
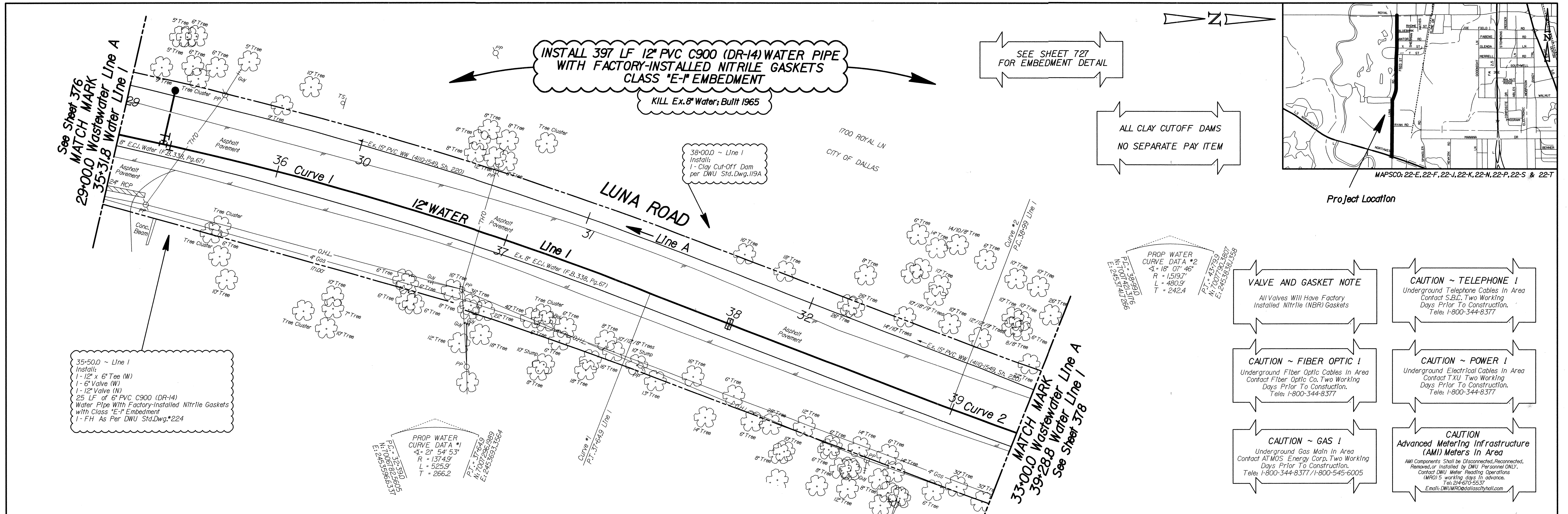
CAUTION ~ POWER !
Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area Contact AT&S Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377 / 1-800-545-6005

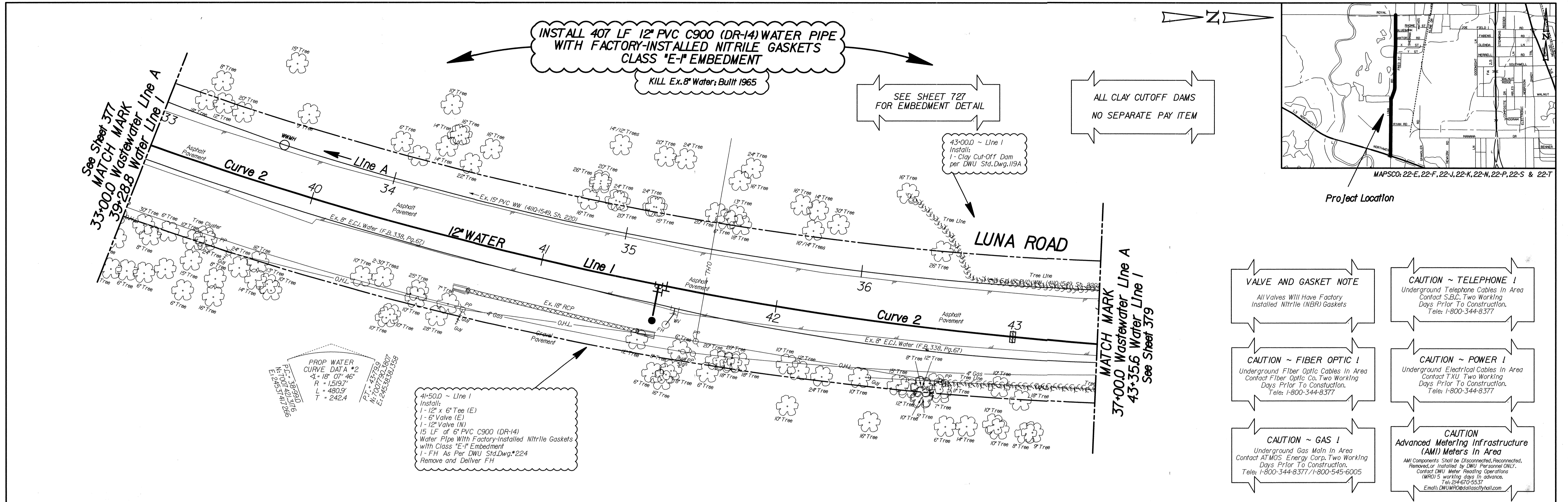
CAUTION
Advanced Metering Infrastructure (AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected, Removed or Installed by DWU Personnel ONLY. Contact DWU Meter Reading Operations (MRO) 5 working days in advance. Tel: 214-670-2537. Email: DWUMRO@dallascityhall.com



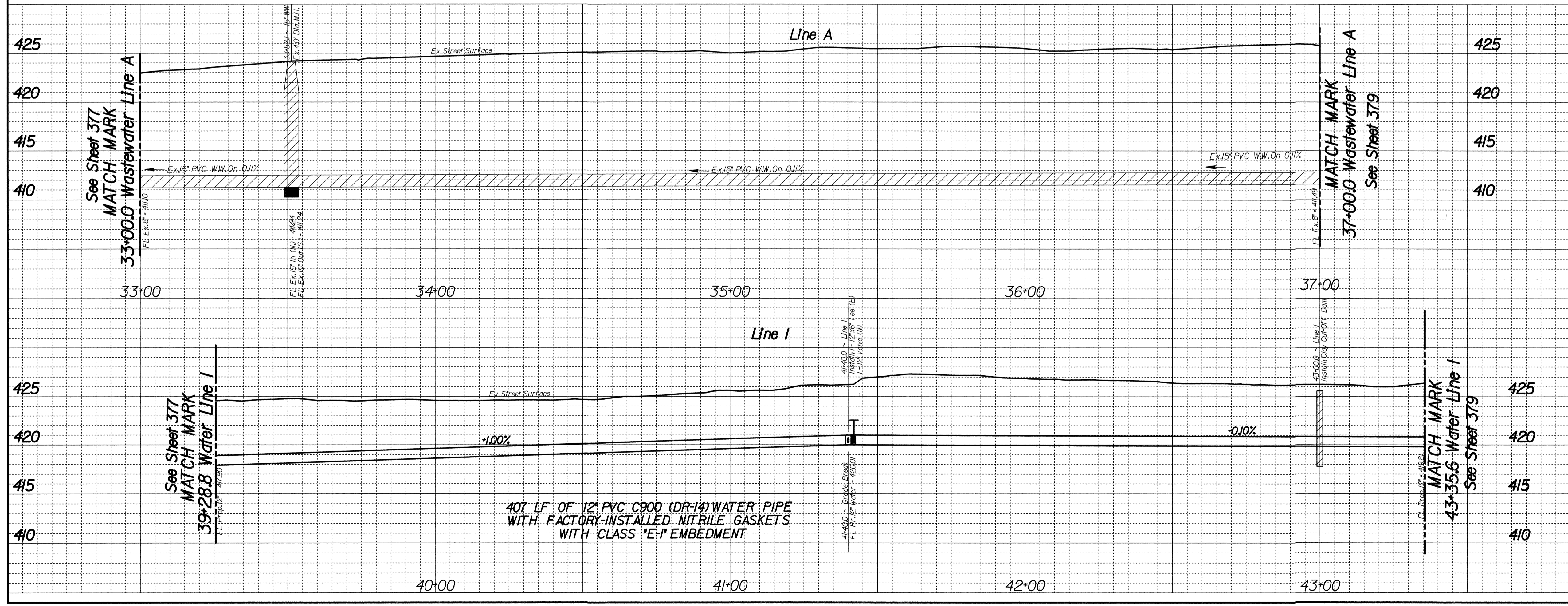
REVISIONS					
REV NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9'x 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. = 423.26					
STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27					
Point	Northing	Easting	Elev.	Description	
#7	70067.39362	245361.0052	424.18	X CUT	
#8	7007047.7298	2453601.5566	422.88	1/2 Capped Iron Rod	
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'			
REFERENCES					
WATER 20W-13					
WASTEWATER 20S-13					
DWU Engineering Services					
CONTRACT NO. 21-341/342			PID: 1210		
12" WATER					
LUNA ROAD					
NORTHWEST HWY & ROYAL LN					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
S Shields Keprta Cham	S Shields Keprta Cham	NOV 2021	411Q	1549	736



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9" x 5" concrete box culvert under Luna Road and 315' north Highway #114. Elev. = 423.26			
STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 07 miles north of Ryan Road. Elev. = 425.27			
Point	Northing	Easting	Elev. Description
#8	7007047.7298	2453601.5566	422.88 1/2 Capped Iron Rod
Horizontal Scale: 1" = 20'			
Vertical Scale: 1" = 6'			
REFERENCES			
WATER 20W-13			
WASTEWATER 20S-13			
DWU Engineering Services			
CONTRACT NO. 21-341/342		PID: 1210	
12" WATER			
LUNA ROAD			
NORTHWEST HWY & ROYAL LN			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
Shields Kepria Cham	Shields Kepria Cham	NOV 2021	411Q 1549 737



- VALVE AND GASKET NOTE**
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets
- CAUTION ~ TELEPHONE !**
Underground Telephone Cables In Area
Contact S.B.C. Two Working Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION ~ FIBER OPTIC !**
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION ~ POWER !**
Underground Electrical Cables In Area
Contact TXU Two Working Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION ~ GAS !**
Underground Gas Main In Area
Contact AT&T Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005
- CAUTION**
Advanced Metering Infrastructure (AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected, Removed or Installed by DWU Personnel ONLY.
Contact DWU Meter Reading Operations (MRO) 5 working days in advance.
Tel: 214-671-5537
Email: DWUMRO@dallascityhall.com



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Bench Mark
STD.WDBM on center of east concrete headwall
to a triple 9' X 5' concrete box culvert under Luna Road
and 315' north Highway #14.
Elev. - 423.26

STD.WDBM on north end of a 15' X 24' concrete driveway culvert on the east
side of Luna Road and 0.7 miles north of Ryan Road.
Elev. - 425.27

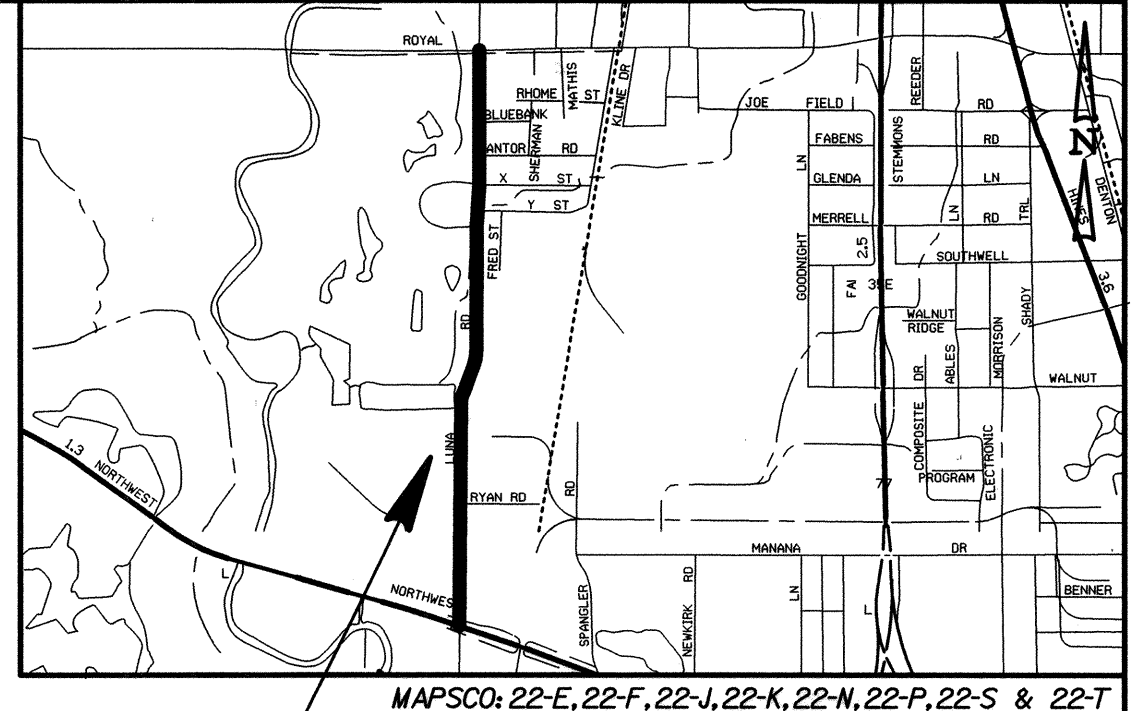
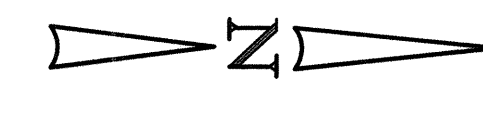
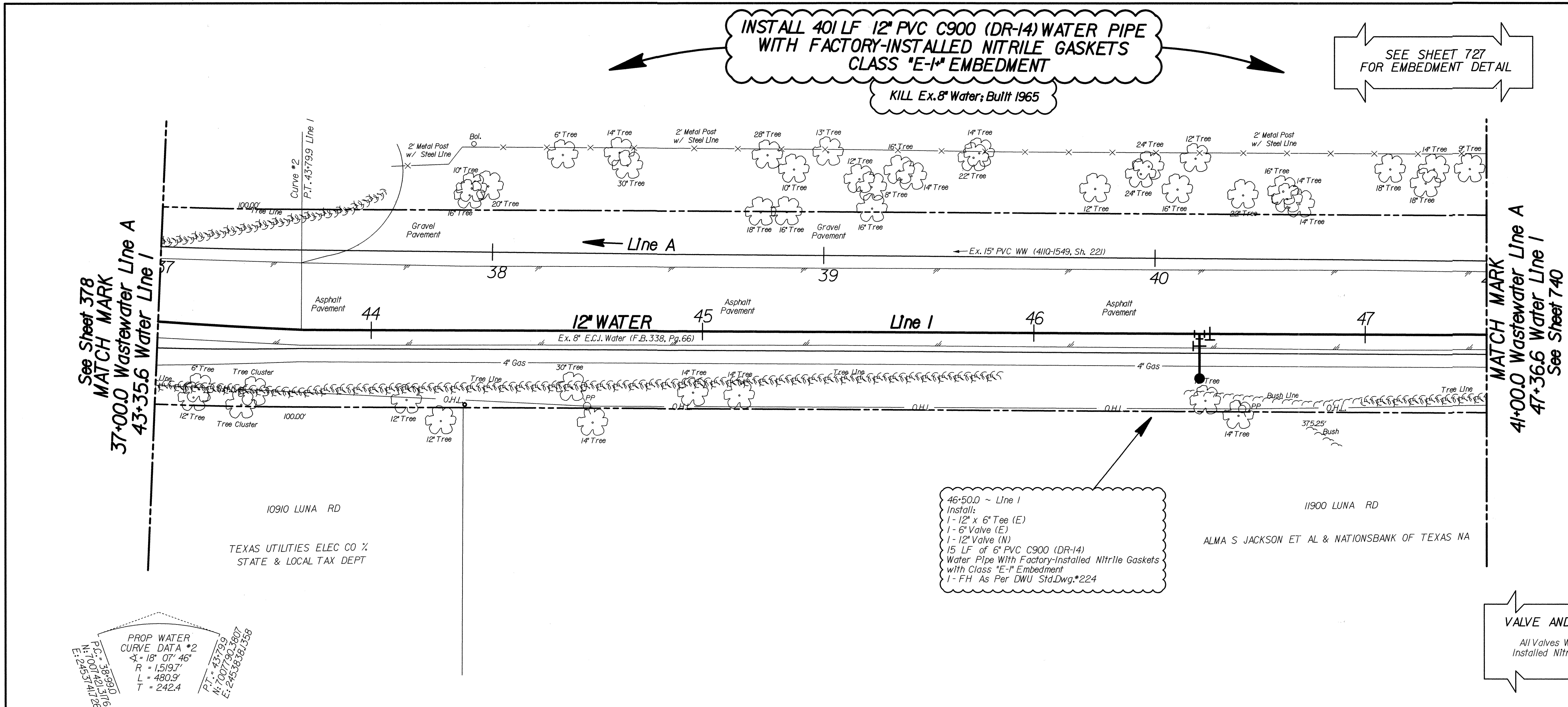
Point	Northing	Easting	Elev.	Description
#8	7007047.7298	2453601.5566	422.88	1/2 Capped Iron Rod

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

REFERENCES
WATER 20W-13
WASTEWATER 20S-13

DWU Engineering Services
CONTRACT NO. 21-341/342 PID: 1210
12" WATER
LUNA ROAD
NORTHWEST HWY & ROYAL LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Kepria Cham	Shields Kepria Cham	NOV 2021	41IQ	1549	738



Project Location

ALL CLAY CUTOFF DAMS
NO SEPARATE PAY ITEM

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

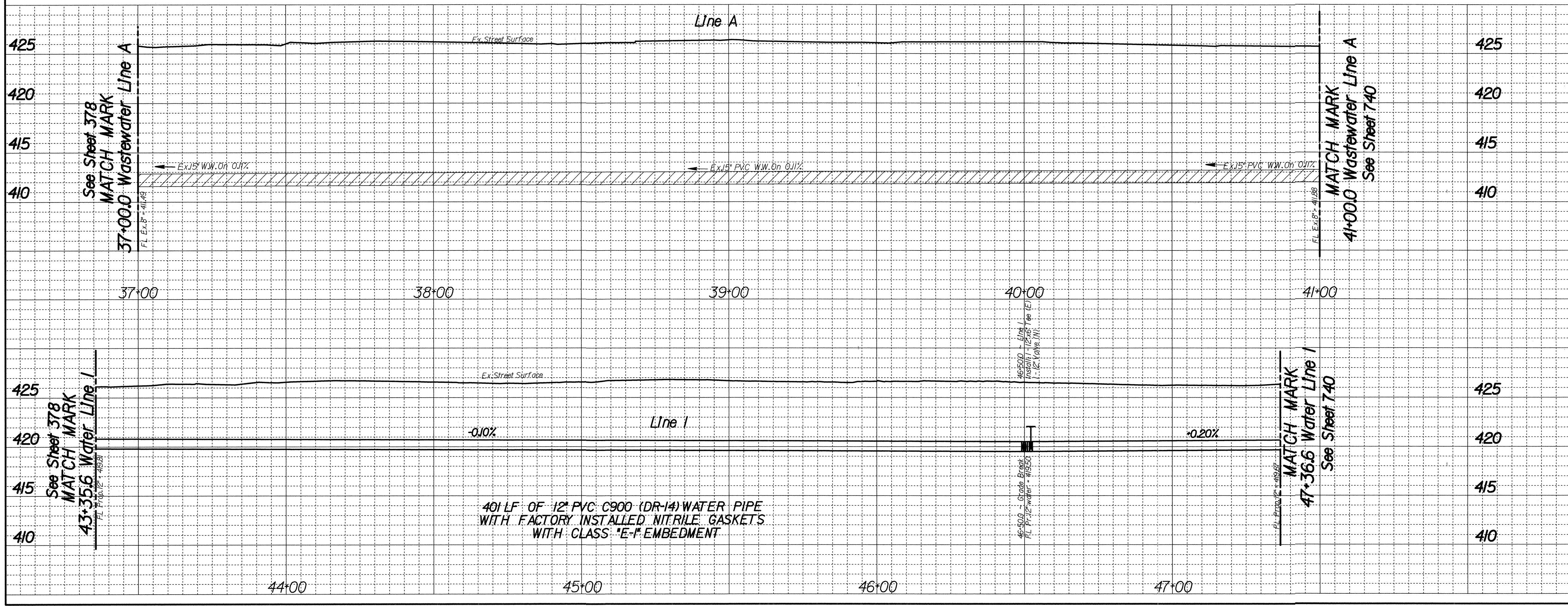
VALVE AND GASKET NOTE
All Valves Will Have Factory
Installed Nitrile (NBR) Gaskets

CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&S Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005

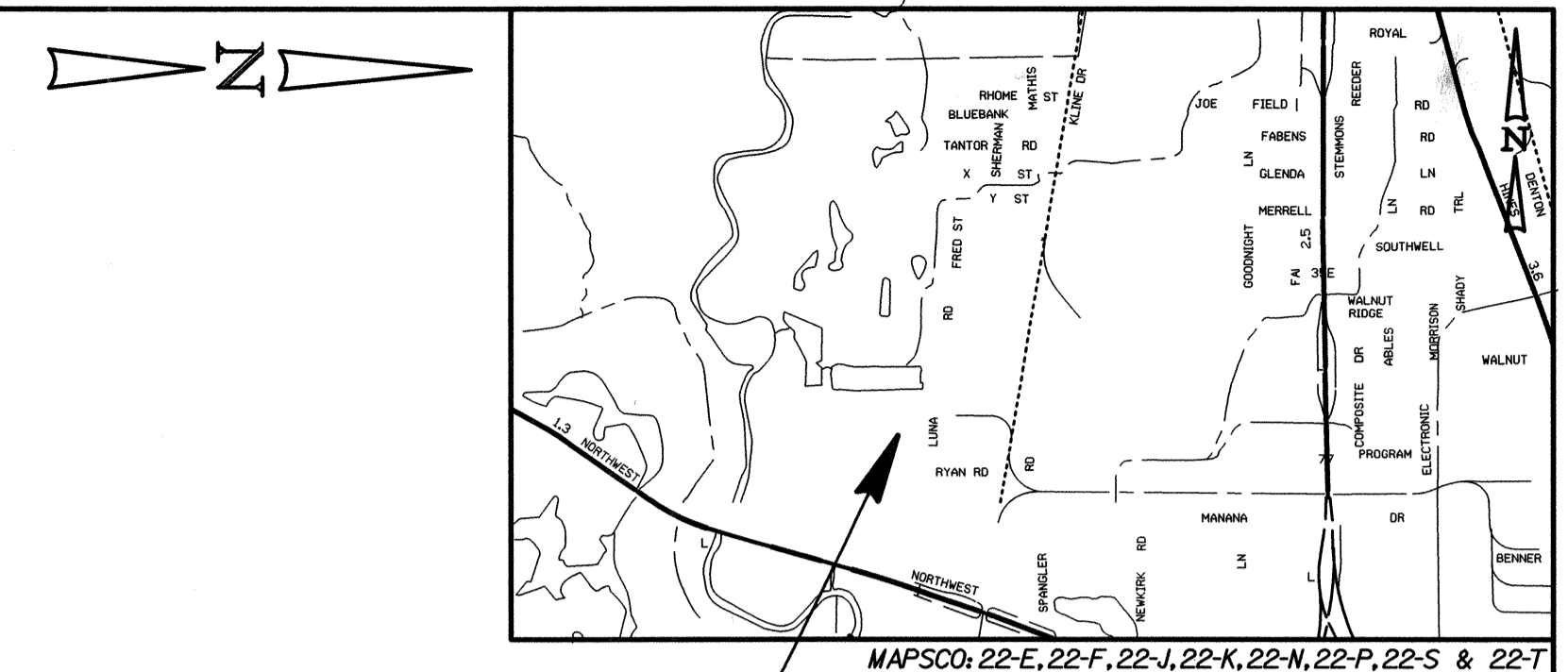
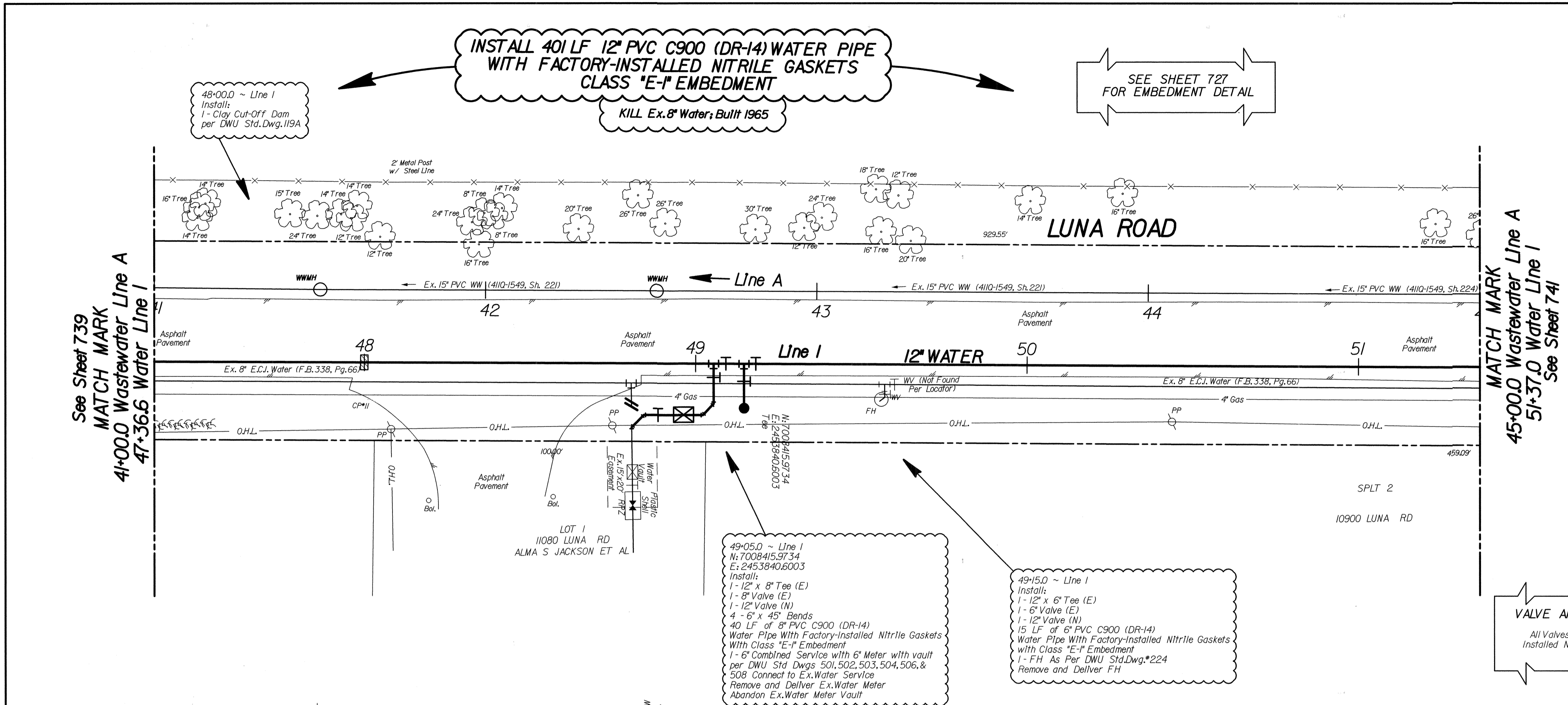
CAUTION
Advanced Metering Infrastructure
(AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected,
Removed, or Installed by DWU Personnel ONLY.
Contact DWU Meter Reading Operations
(MRO) 5 working days in advance.
Tel: 214-707-5537
Email: DWUMRO@dallascityhall.com

PROP WATER
CURVE DATA *2
X = 18' 07" 46"
R = 1519.7'
L = 480.9'
T = 242.4'
PT. 4379.9
M: 7007700.307
E: 2425.8158158

46+50.0 ~ Line I
Install:
1- 12" x 6" Tee (E)
1- 6" Valve (E)
1- 12" Valve (W)
15 LF of 12" PVC C900 (DR-14)
Water Pipe With Factory-Installed Nitrile Gaskets
with Class "E-I" Embedment
1- FH As Per DWU Std.Dwg.#224

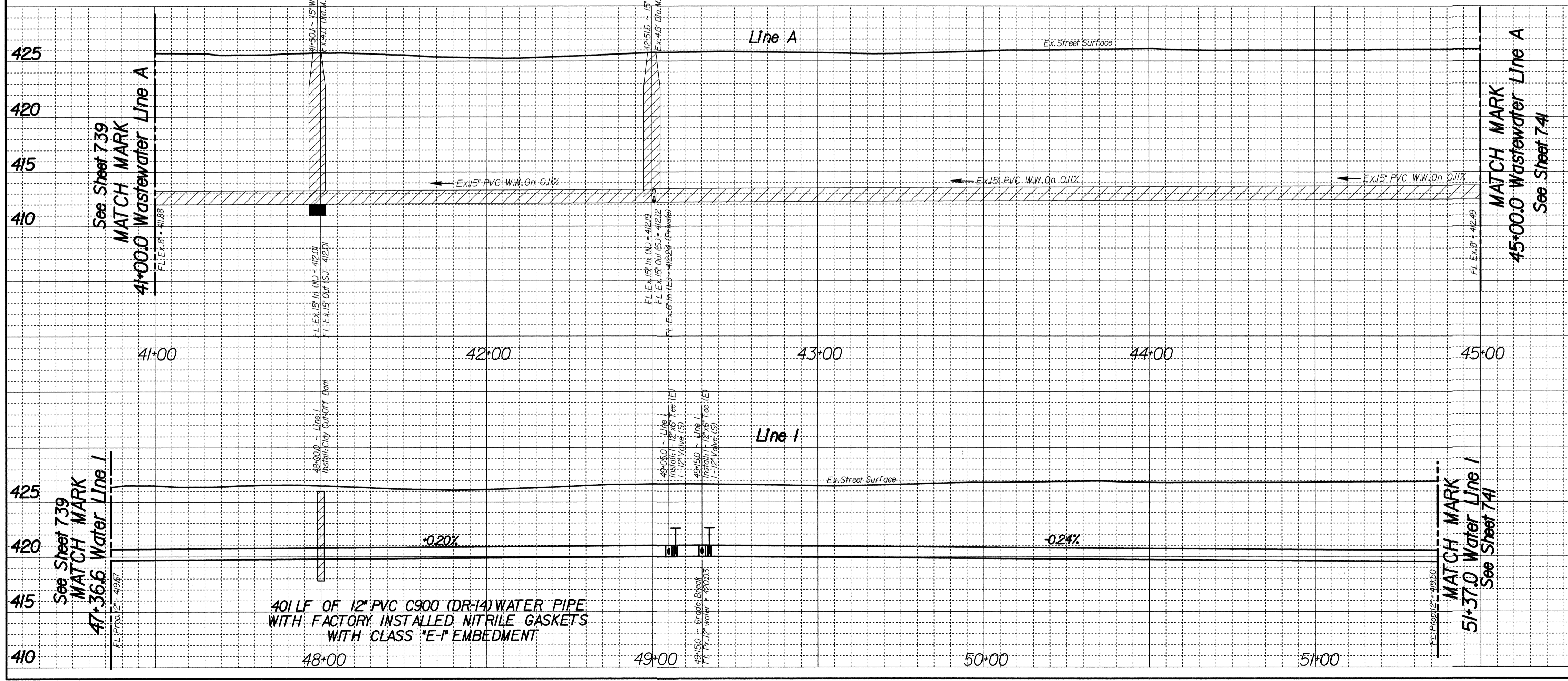


REVISIONS					
REV NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9'X 5' concrete box culvert under Luna Road and 315' north Highway *114. Elev. = 423.26					
STD.WDBM on north end of a 15'X24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27					
Point #11	Northing 7008313.3100	Easting 2453852.0031	Elev. 4267.3	Description Pk Nail	
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'			
REFERENCES					
WATER 20W-13					
WASTEWATER 20S-13					
DWU Engineering Services					
CONTRACT NO. 21-341/342			PID: 1210		
12" WATER LUNA ROAD NORTHWEST HWY & ROYAL LN DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS					
DESIGN Shields Kapita Cham	DRAWN Shields Kapita Cham	DATE NOV 2021	FILE 411Q	NUMBER 1549	SHEET 739



- ALL CLAY CUTOFF DAMS NO SEPARATE PAY ITEM**
- CAUTION ~ TELEPHONE !**
 Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ FIBER OPTIC !**
 Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ POWER !**
 Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ GAS !**
 Underground Gas Main In Area Contact ATMOS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377 / 1-800-545-6005
- CAUTION**
 Advanced Metering Infrastructure (AMI) Meters In Area
 AMI Components Shall be Disconnected, Reconnected, Removed or installed by DWU Personnel ONLY. Contact DWU Meter Reading Operations (MRO) 5 working days in advance. Tel: 214-671-0537 Email: DWUMRO@dallaswater.com

VALVE AND GASKET NOTE
 All Valves Will Have Factory Installed Nitrile (NBR) Gaskets



REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Bench Mark
 STD.WDBM on center of east concrete headwall to a triple 9" x 5" concrete box culvert under Luna Road and 315' north Highway #114. Elev. = 423.26

STD.WDBM on north end of a 15'x24" concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27

Point	Northing	Easting	Elev.	Description
*11	7008313.3100	2453852.0031	426.73	PK Wall

Horizontal Scale: 1" = 20'
 Vertical Scale: 1" = 6'

REFERENCES
 WATER 19W-13
 WASTEWATER 19S-13

DWU Engineering Services

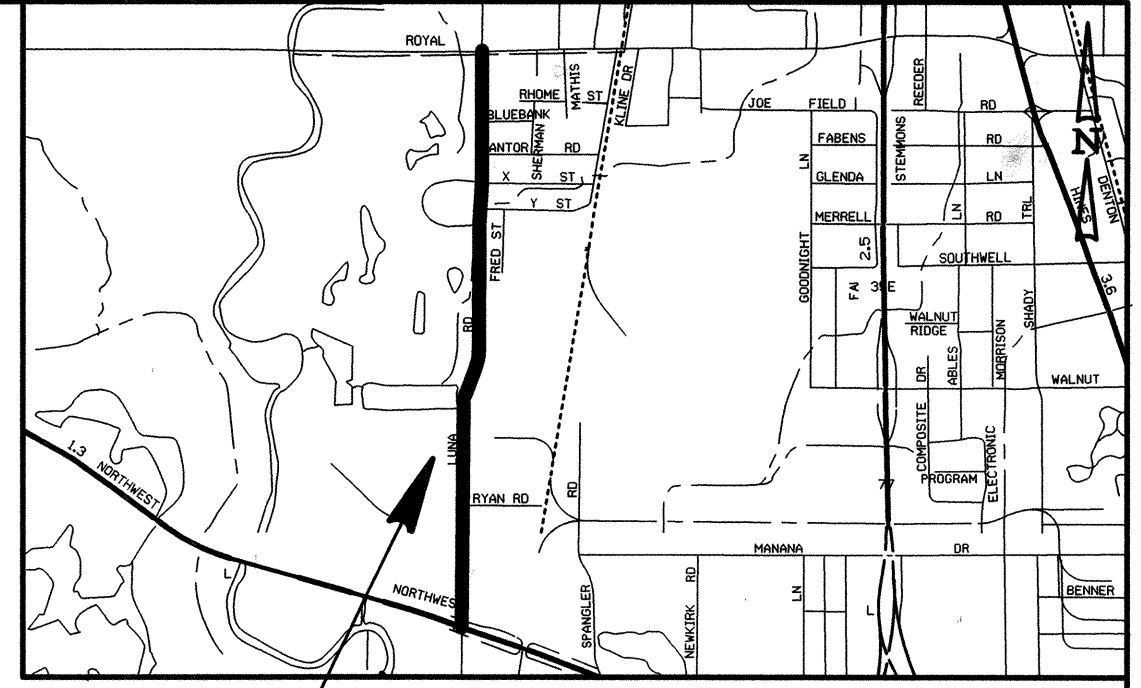
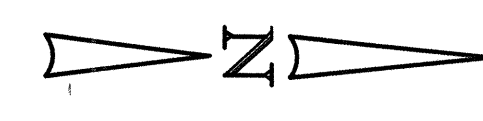
CONTRACT NO. 21-341/342 PID: 1210

12" WATER
LUNA ROAD
 NORTHWEST HWY & ROYAL LN
 DALLAS WATER UTILITIES
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Keptra Cham	Shields Keptra Cham	NOV 2021	411Q	1549	740

INSTALL 163 LF 12" PVC C900 (DR-14) WATER PIPE WITH FACTORY-INSTALLED NITRILE GASKETS CLASS "E-F" EMBEDMENT
KILL Ex. 8" Water; Built 1965

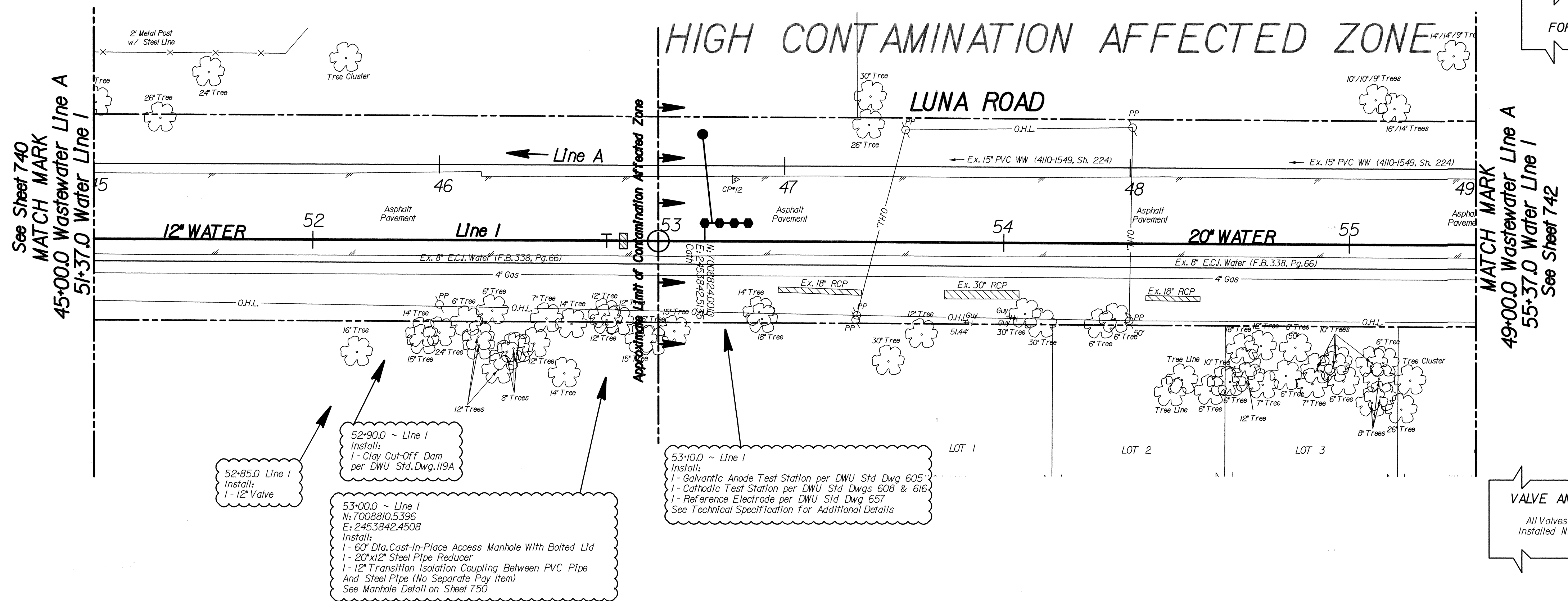
INSTALL 237 LF 20" WELDED STEEL WATER PIPE ANSI/AWWA C200 CLASS "E-F" EMBEDMENT
KILL Ex. 8" Water; Built 1965



Project Location

HIGH CONTAMINATION AFFECTED ZONE

LUNA ROAD



SEE SHEET 727 FOR EMBEDMENT DETAIL

ALL CLAY CUTOFF DAMS NO SEPARATE PAY ITEM

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377

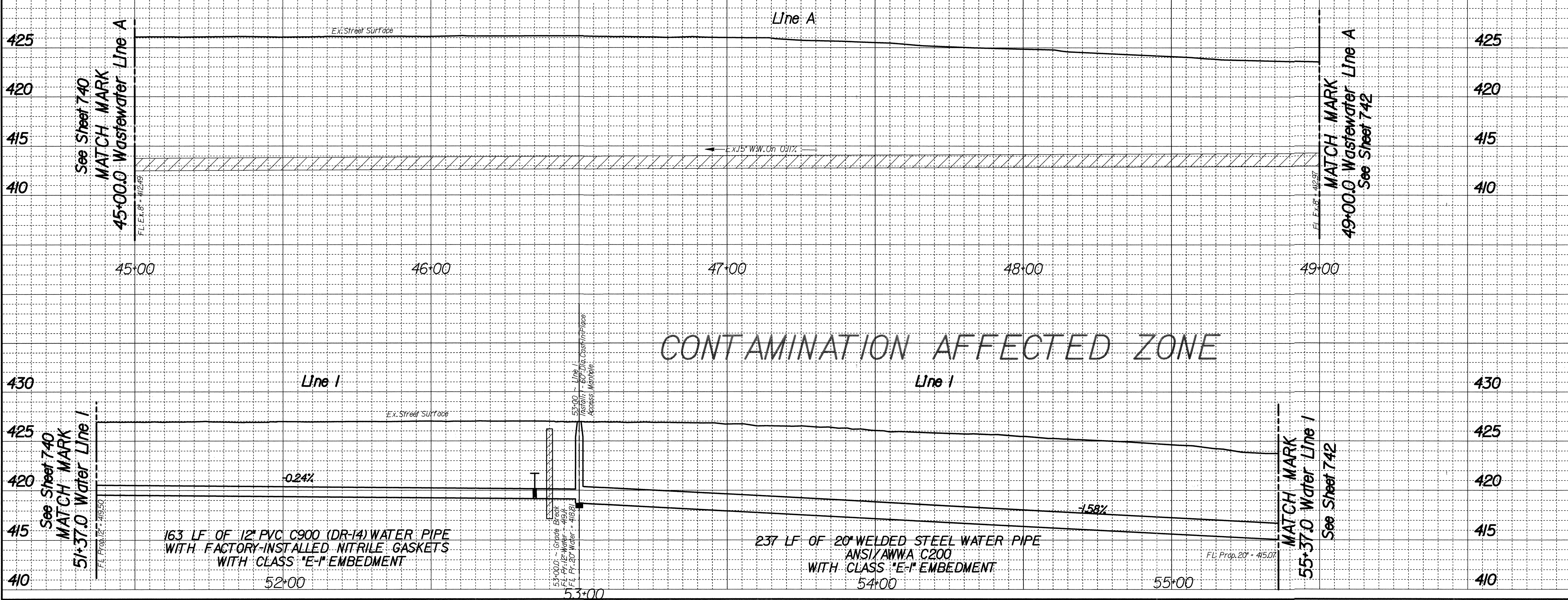
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377

CAUTION ~ POWER !
Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377

VALVE AND GASKET NOTE
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets

CAUTION ~ GAS !
Underground Gas Main In Area Contact AMOS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377/1-800-545-6005

CAUTION Advanced Metering Infrastructure (AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected, Removed, or Installed by DWU Personnel ONLY. Contact DWU Meter Reading Operations (MRO) 5 working days in advance. Tel: 214-740-5537 Email: DWUMRO@dallaswater.com



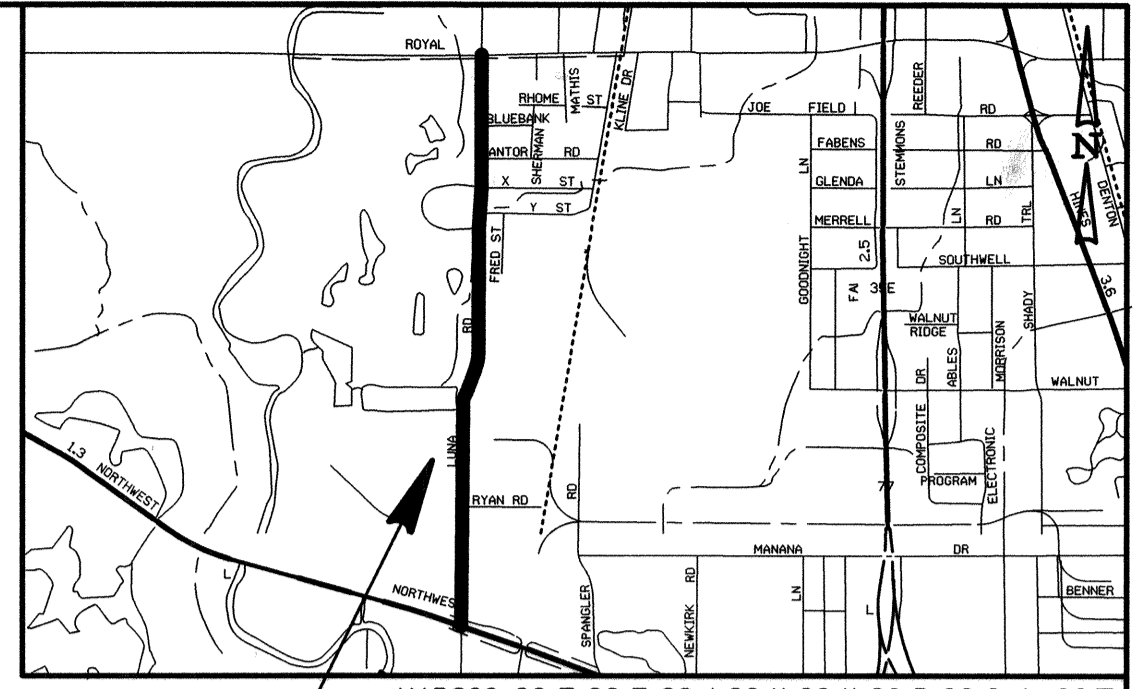
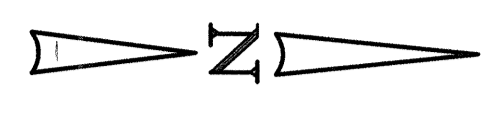
REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9'x 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. = 423.26			
STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27			
Point	Northing	Easting	Elev. Description
#12	7008832.7378	2453824.4072	426.68 PK Wall
Horizontal Scale: 1" = 20'			
Vertical Scale: 1" = 6'			
REFERENCES			
WATER 19W-13			
WASTEWATER 19S-13			
CONTRACT NO. 21-341/342		PID: 1210	
12" & 20" WATER			
LUNA ROAD			
NORTHWEST HWY & ROYAL LN			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
Shields Keptra	Shields Keptra	NOV 2021	411Q
			NUMBER
			1549
			SHEET
			741

**INSTALL 400 LF 20" WELDED STEEL WATER PIPE
ANSI/AWWA C200
CLASS "E-F" EMBEDMENT**

SEE SHEET 727
FOR EMBEDMENT DETAIL

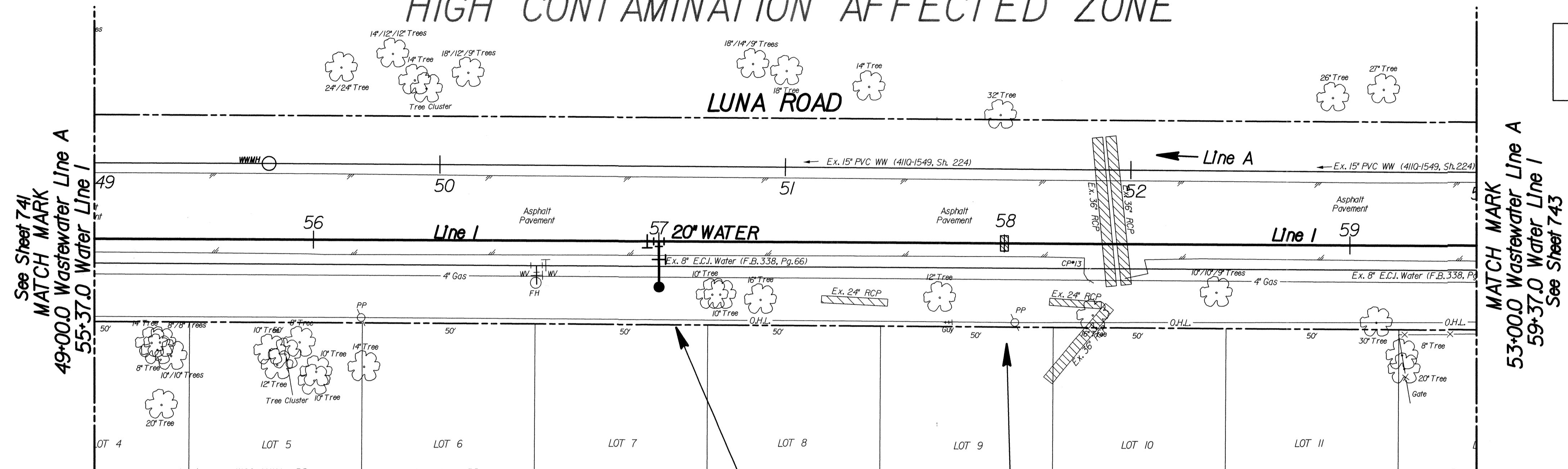
KILL Ex. 8" Water; Built 1965

HIGH CONTAMINATION AFFECTED ZONE



Project Location

VALVE AND GASKET NOTE
All Valves Will Have Factory
Installed Nitrile (NBR) Gaskets



ALL CLAY CUTOFF DAMS
NO SEPARATE PAY ITEM

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

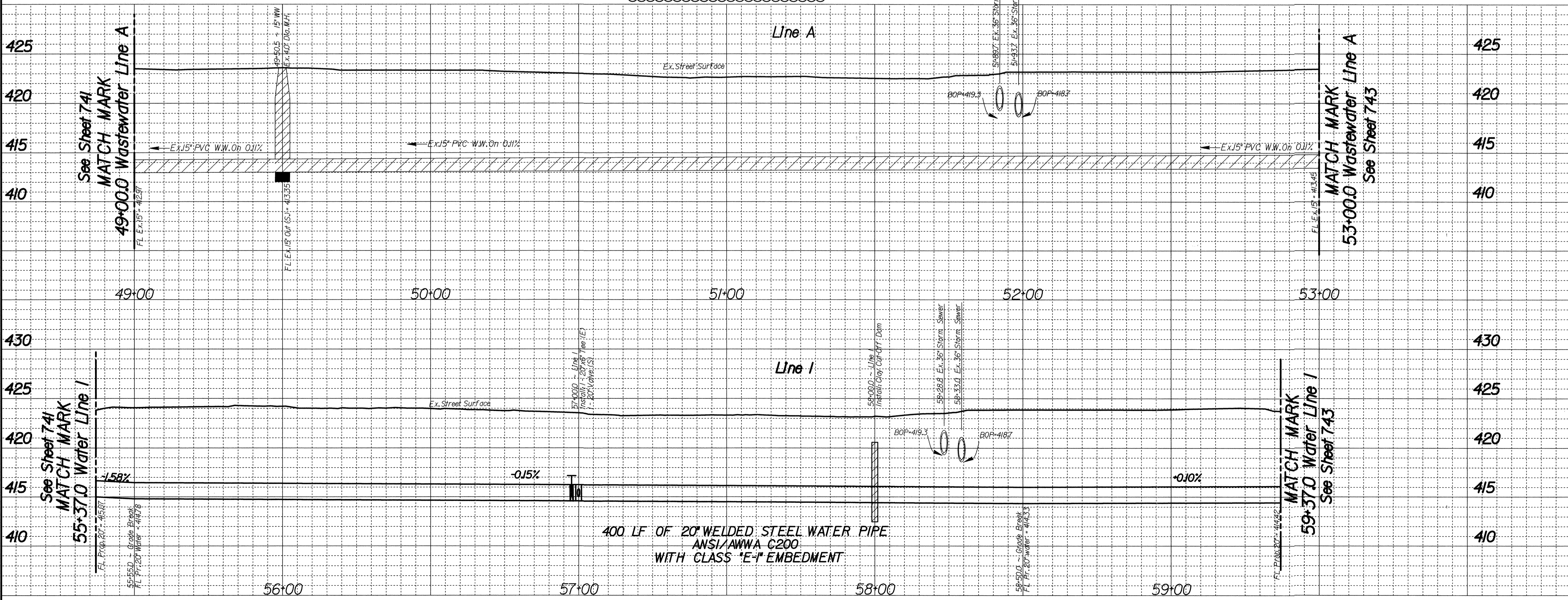
CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&T Energy Corp. Two Working
Days Prior To Construction.
Contact DWU Meter Reading Operations
Tele: 1-800-344-8377 / 1-800-545-6005
Tel: 214-670-5537

**CAUTION
Advanced Metering Infrastructure
(AMI) Meters In Area**
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Contact DWU Meter Reading Operations
(MRO) 5 working days in advance.
Tel: 214-670-5537
Email: DWUMRO@dallascityhall.com

Valves and Tees
Must Be Electrically
Continuous Per
DWU Std. Dwg 639

57+00.0 ~ Line I
Install:
1 - 20" x 6" Tee (E)
1 - 6" Valve (E)
1 - 20" Valve (S)
15 LF of 6" Welded Steel Water Pipe
ANSI/AWWA C200
With Class "E-F" Embedment
1 - FH As Per DWU Std. Dwg. *224
Remove and Deliver FH

58+00.0 ~ Line I
Install:
1 - Clay Cut-Off Dam
per DWU Std. Dwg. 119A



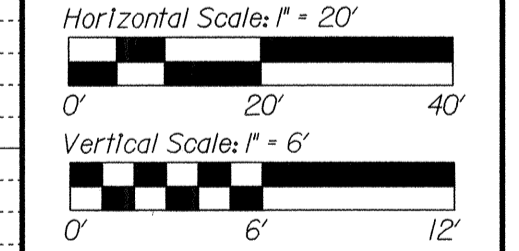
REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Bench Mark
STD.WDBM on center of east concrete headwall
to a triple 9' X 5' concrete box culvert under Luna Road
and 315' north Highway #114.
Elev. - 423.26

STD.WDBM on north end of a 15'X24' concrete driveway culvert on the east
side of Luna Road and 0.7 miles north of Ryan Road.
Elev. - 425.27

Point	Northing	Easting	Elev.	Description
*13	7009335.2624	2453851.5217	423.97	PK Nail

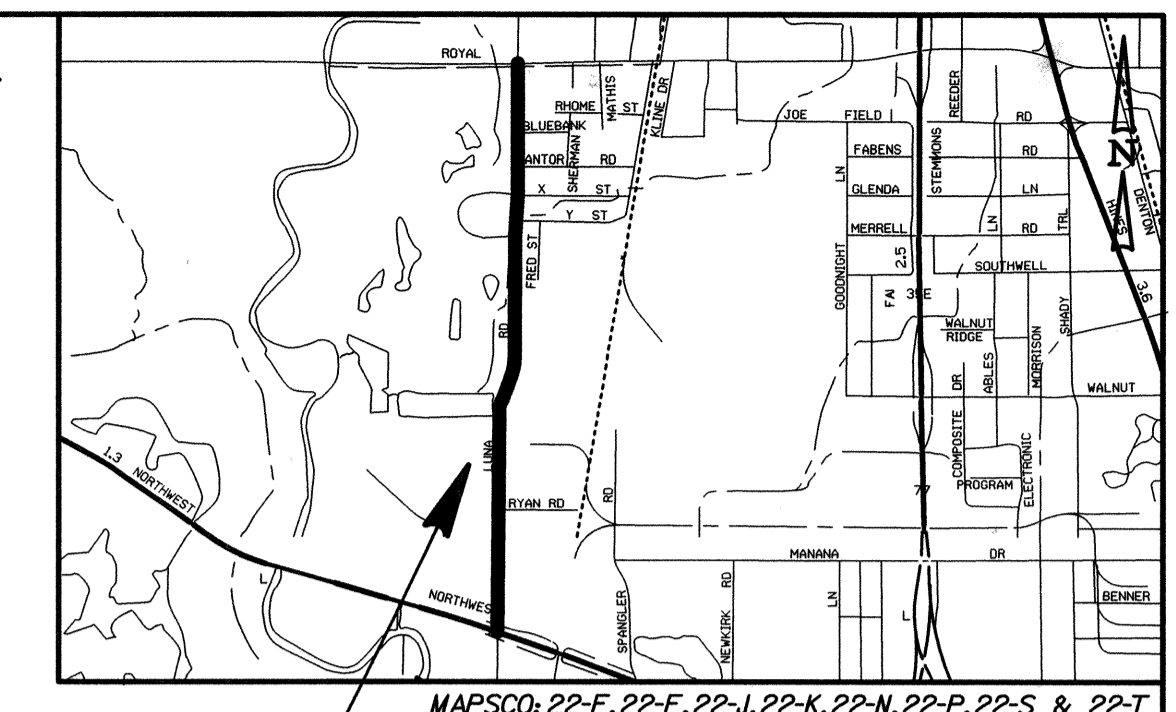
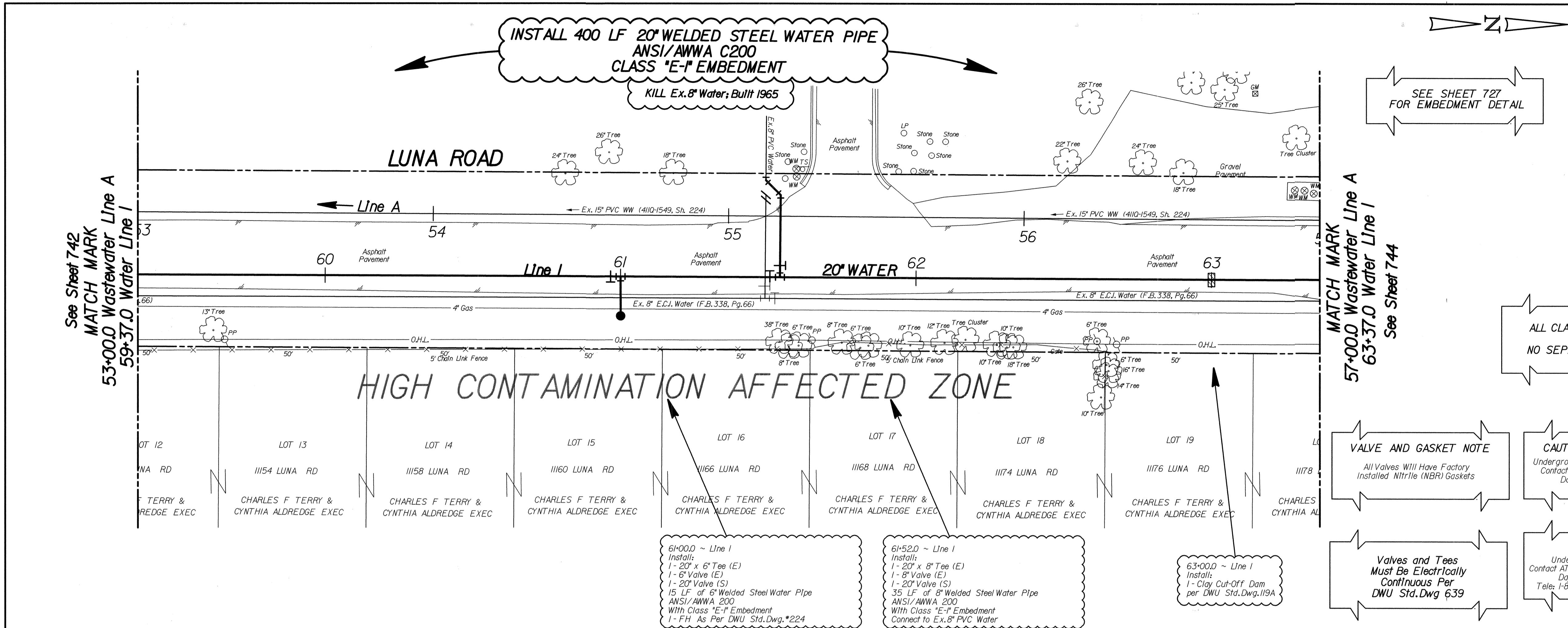


REFERENCES	
WATER	19-13
WASTEWATER	19S-13

DWU Engineering Services
CONTRACT NO. 21-341/342 | PID: 1210

**20" WATER
LUNA ROAD
NORTHWEST HWY & ROYAL LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Kepria Cham	Shields Kepria Cham	NOV 2021	411Q	1549	742



SEE SHEET 727
FOR EMBEDMENT DETAIL

ALL CLAY CUTOFF DAMS
NO SEPARATE PAY ITEM

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

VALVE AND GASKET NOTE
All Valves Will Have Factory
Installed Nitrile (NBR) Gaskets

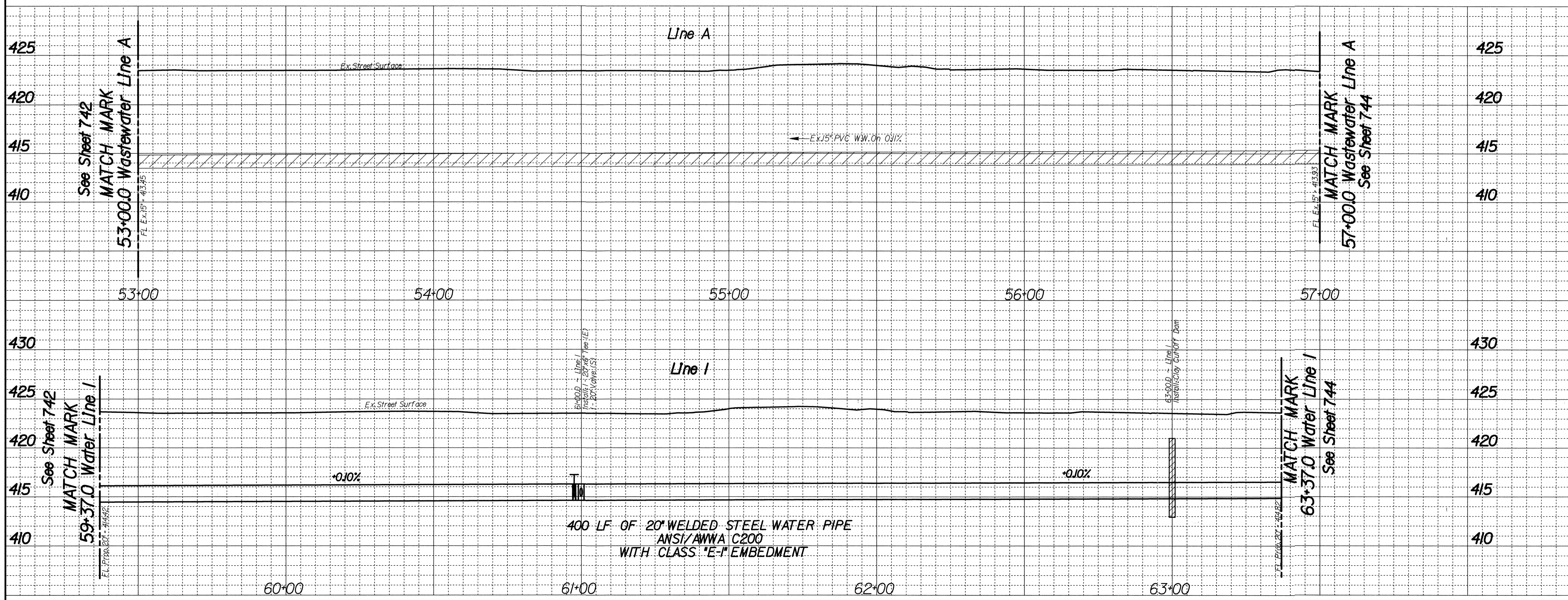
CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

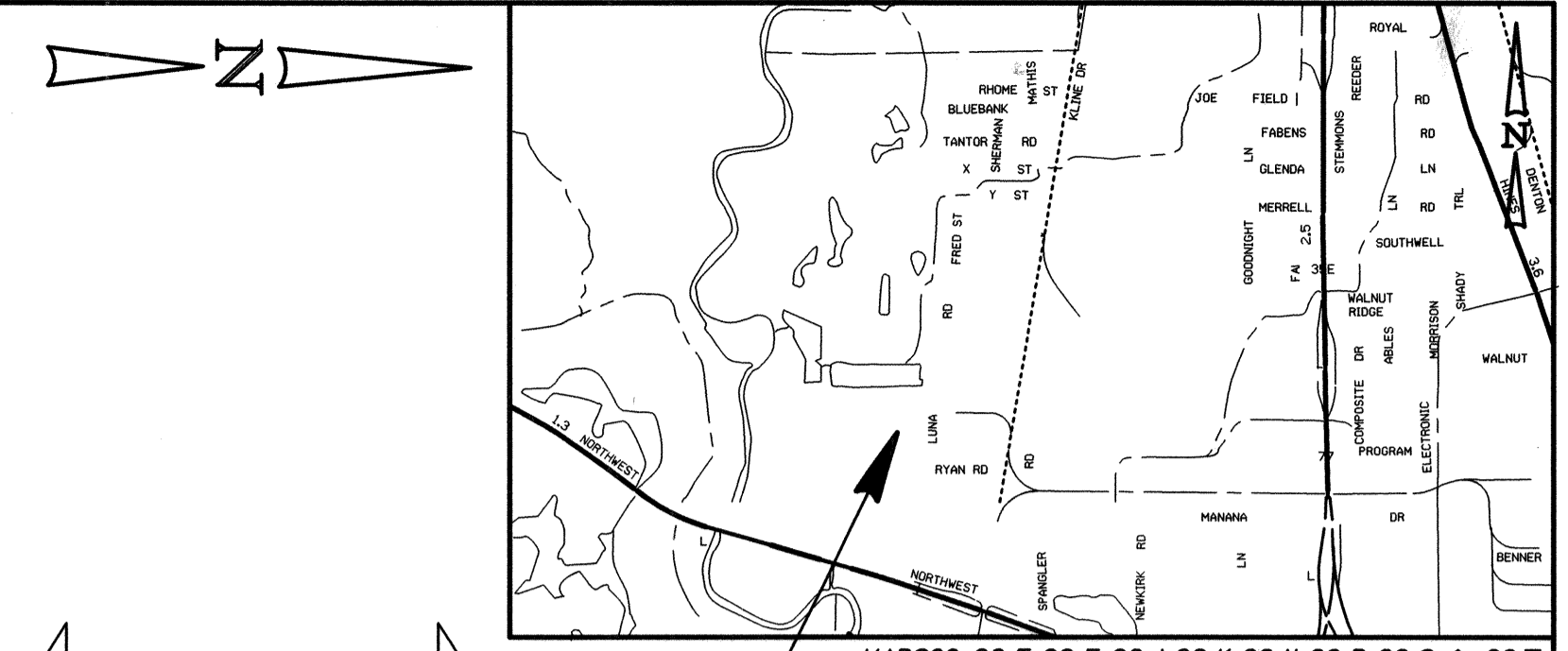
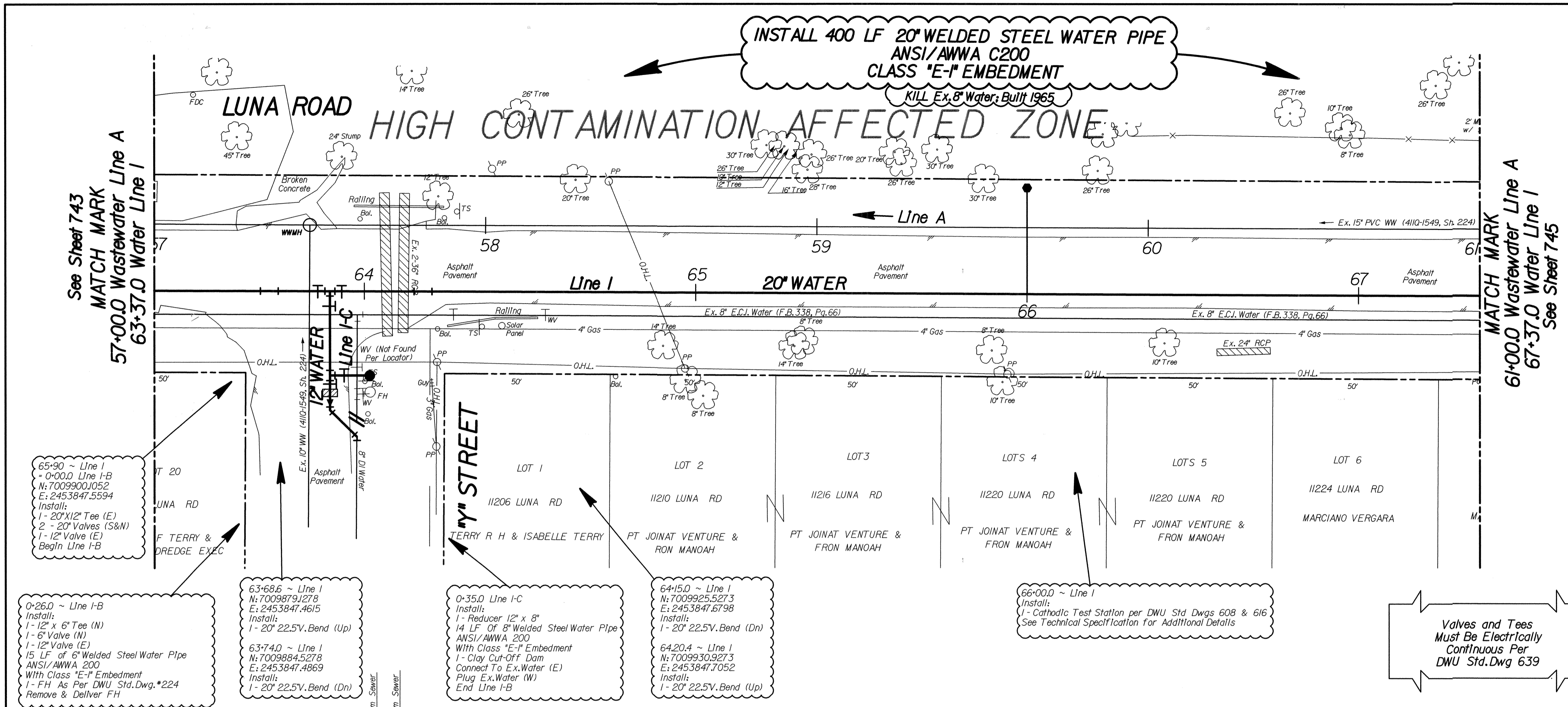
Valves and Tees
Must Be Electrically
Continuous Per
DWU Std. Dwg. 639

CAUTION ~ GAS !
Underground Gas Main In Area
Contract ATMOG Energy Corp. Two Working
Days Prior To Construction.
Contact DWU Meter Reading Operators
Tele: 214-670-5537
1-800-344-8377 / 1-800-545-6005

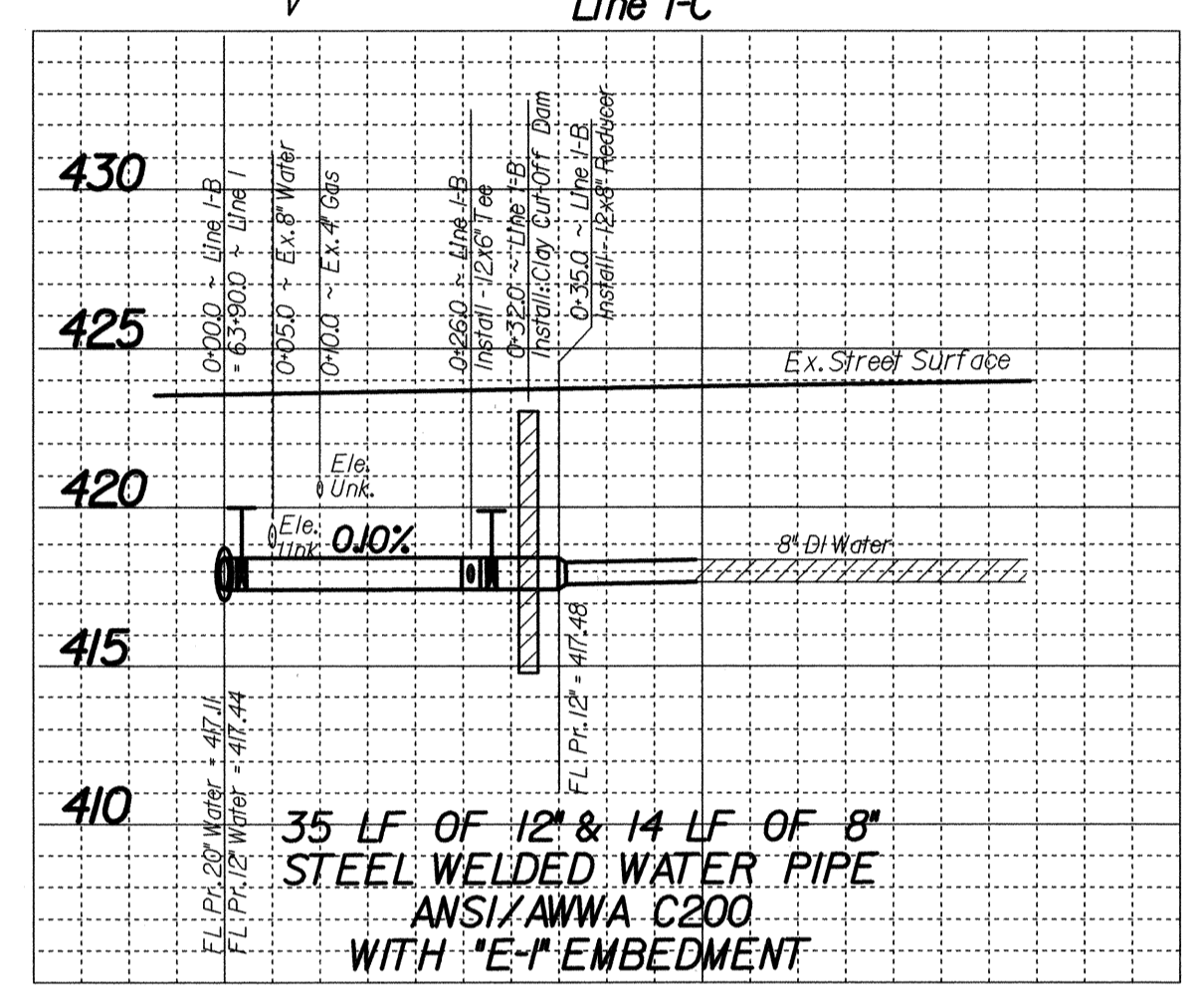
CAUTION
Advanced Metering Infrastructure
(AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected,
Retired, or Installed by DWU Personnel ONLY.
Contract DWU Meter Reading Operators
Tel: 214-670-5537
MRO'S working days in advance.
Email: DWUMRO@dallaswater.com



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9'X 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. = 423.26			
STD.WDBM on north end of a 15'X24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27			
Point	Northing	Eastng	Elev. Description
#13	7009335.2624	2453851.5217	423.97 PK Nail
#14	7009859.0269	2453855.1940	423.49 PK Nail
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'	
REFERENCES		WATER 19W-13	
WASTEWATER 19S-13			
DWU Engineering Services			
CONTRACT NO. 2-341/342		PID: 1210	
20" WATER			
LUNA ROAD			
NORTHWEST HWY & ROYAL LN			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
Shields Kapra Cham	Shields Kapra Cham	NOV 2021	411Q 1549 743



VALVE AND GASKET NOTE
 All Valves Will Have Factory Installed Nitrile (NBR) Gaskets



65+90 ~ Line I
 0+00.0 Line I-B
 N:7009900J052
 E:2453847.5594
 Install:
 1- 20\"/>

0+26.0 ~ Line I-B
 Install:
 1- 12\"/>

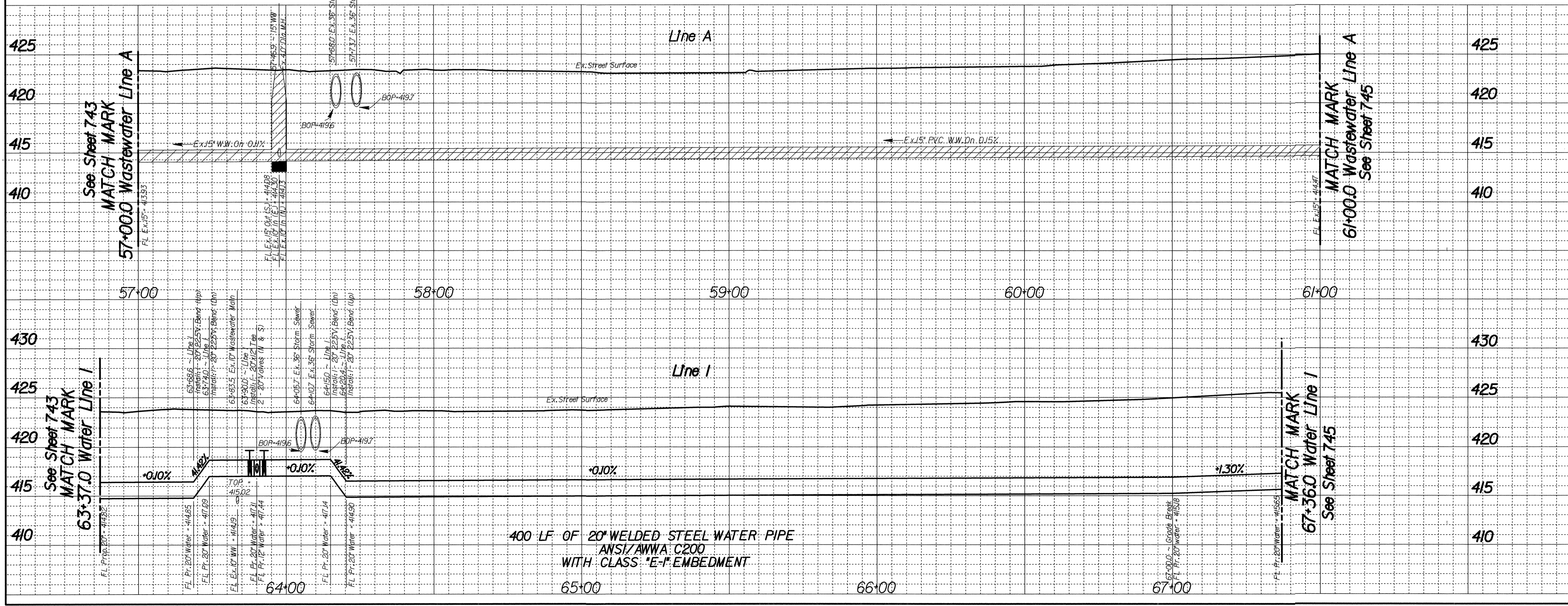
63+74.0 ~ Line I
 15 LF of 6\"/>

0+35.0 Line I-C
 Install:
 1- Reducer 12\"/>

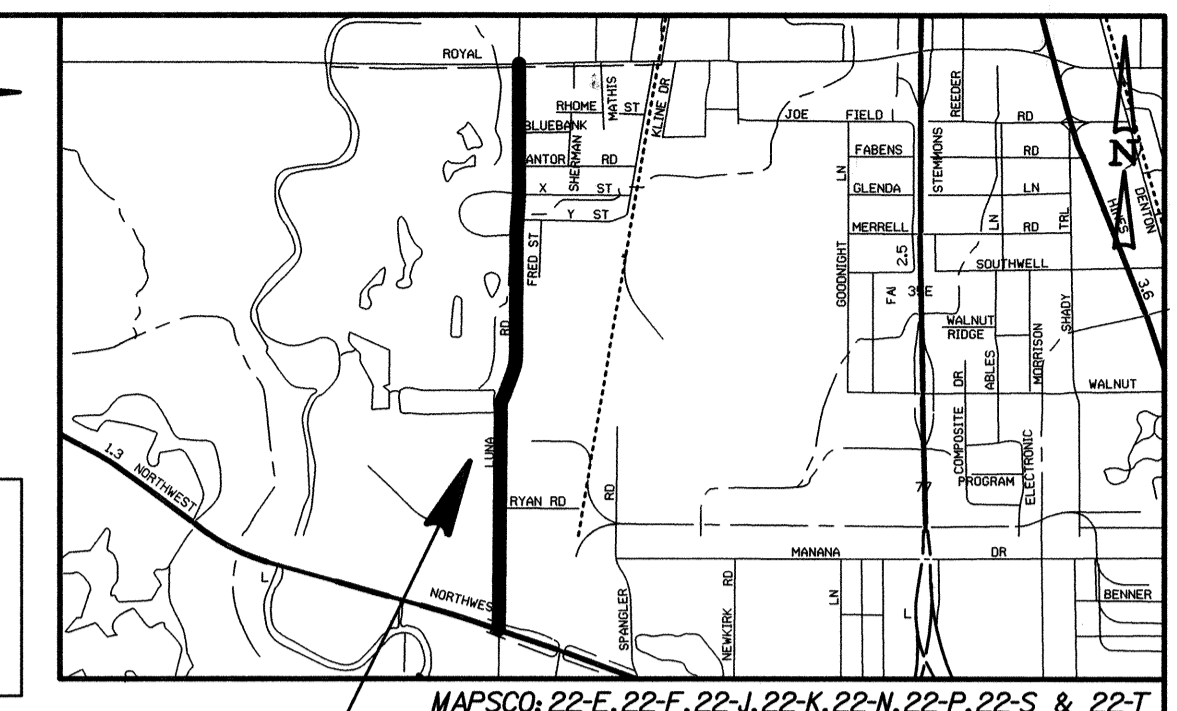
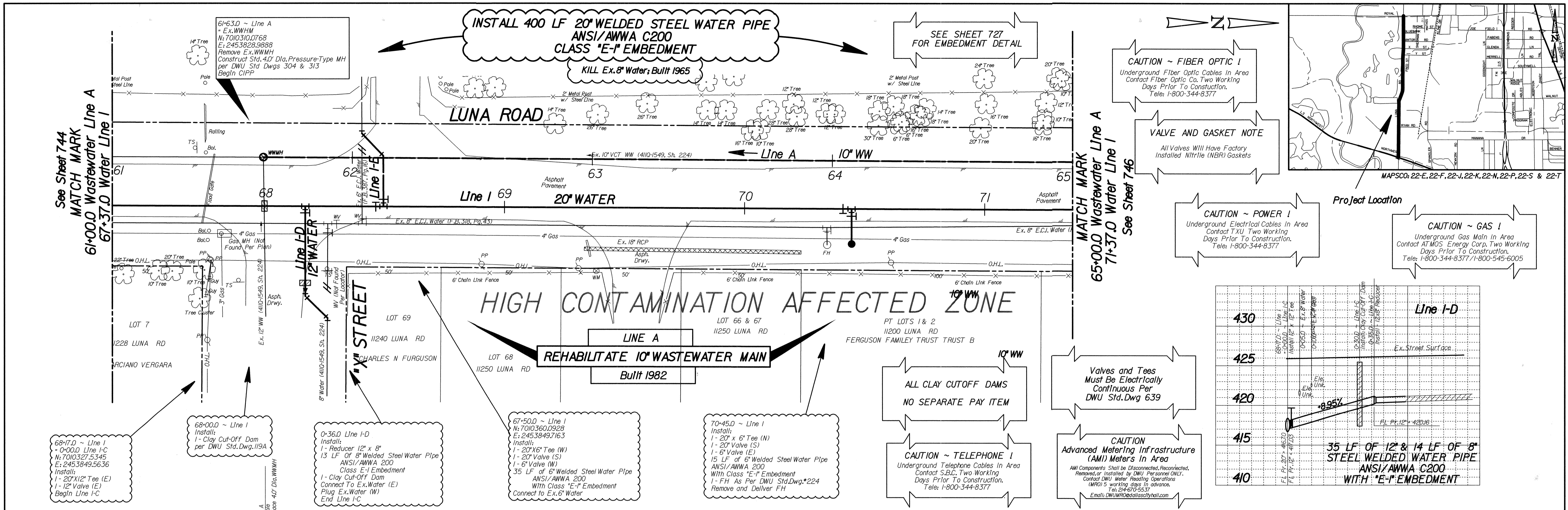
64+15.0 ~ Line I
 N:7009925.5273
 E:2453847.6798
 Install:
 1- 20\"/>

66+00.0 ~ Line I
 Install:
 1- Cathodic Test Station per DWU Std. Dwg. 608 & 616
 See Technical Specification for Additional Details

Valves and Tees Must Be Electrically Continuous Per DWU Std. Dwg. 639



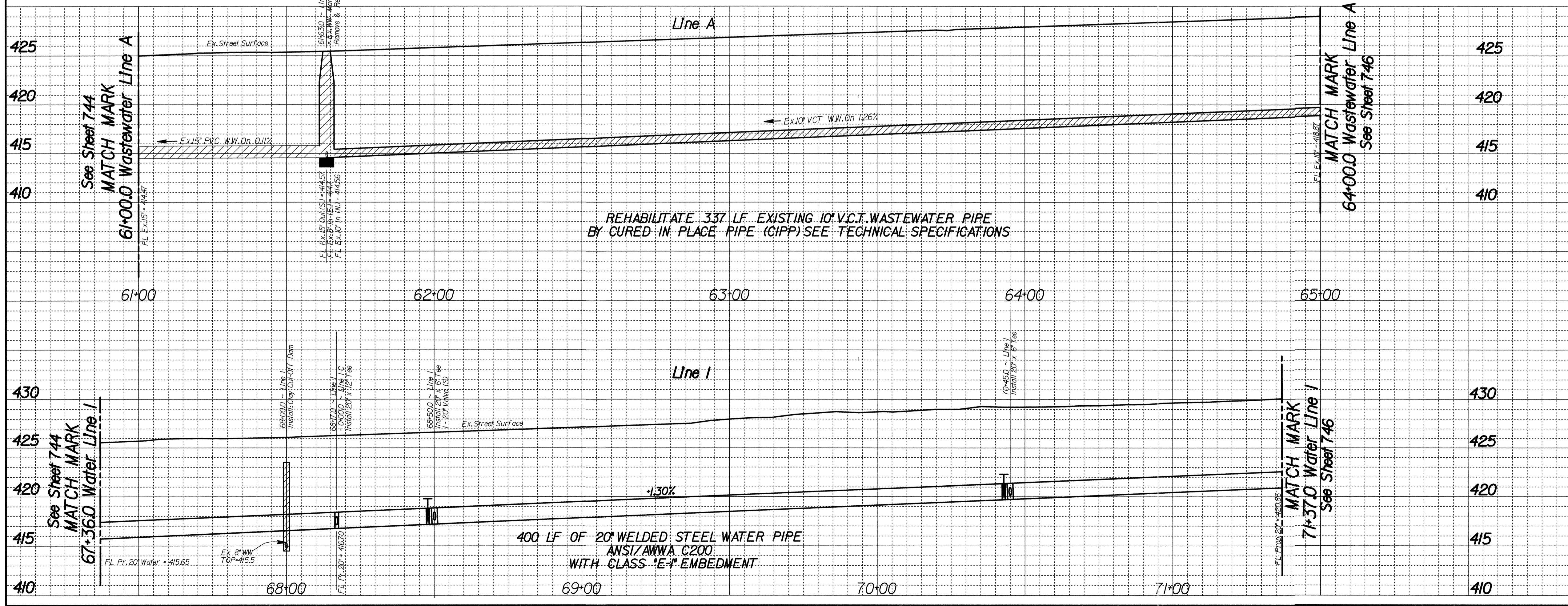
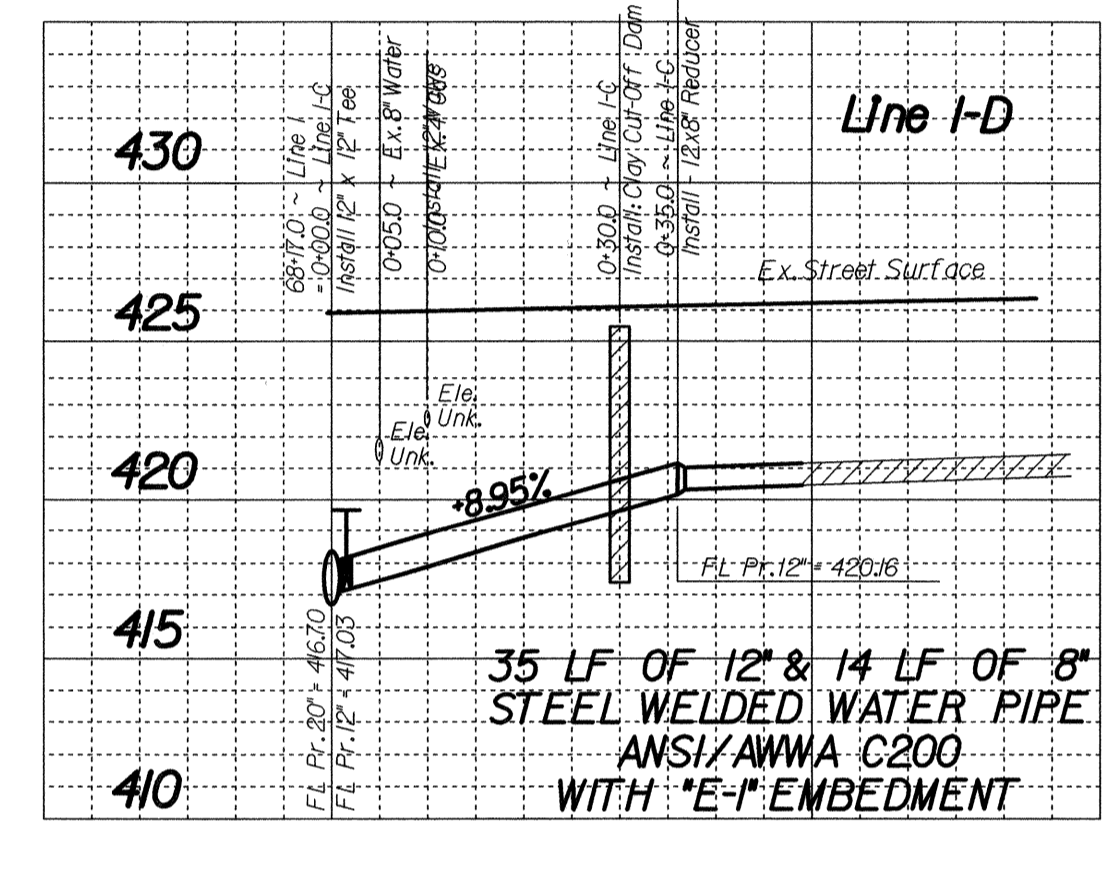
REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9'X 5' concrete box culvert under Luna Road and 315' north Highway *114. Elev. - 423.26					
STD.WDBM on north end of a 15'X24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. - 425.27					
Point	Northing	Easting	Elev. Description		
114	7009859.0269	2453855.9940	423.49 PK Nail		
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 19-13					
WASTEWATER 19-13					
DWU Engineering Services					
CONTRACT NO. 21-341/342		PID: 1210			
12" & 20" WATER					
LUNA ROAD NORTHWEST HWY & ROYAL LN DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Keprta Cham	Shields Keprta Cham	NOV 2021	411Q	1549	744



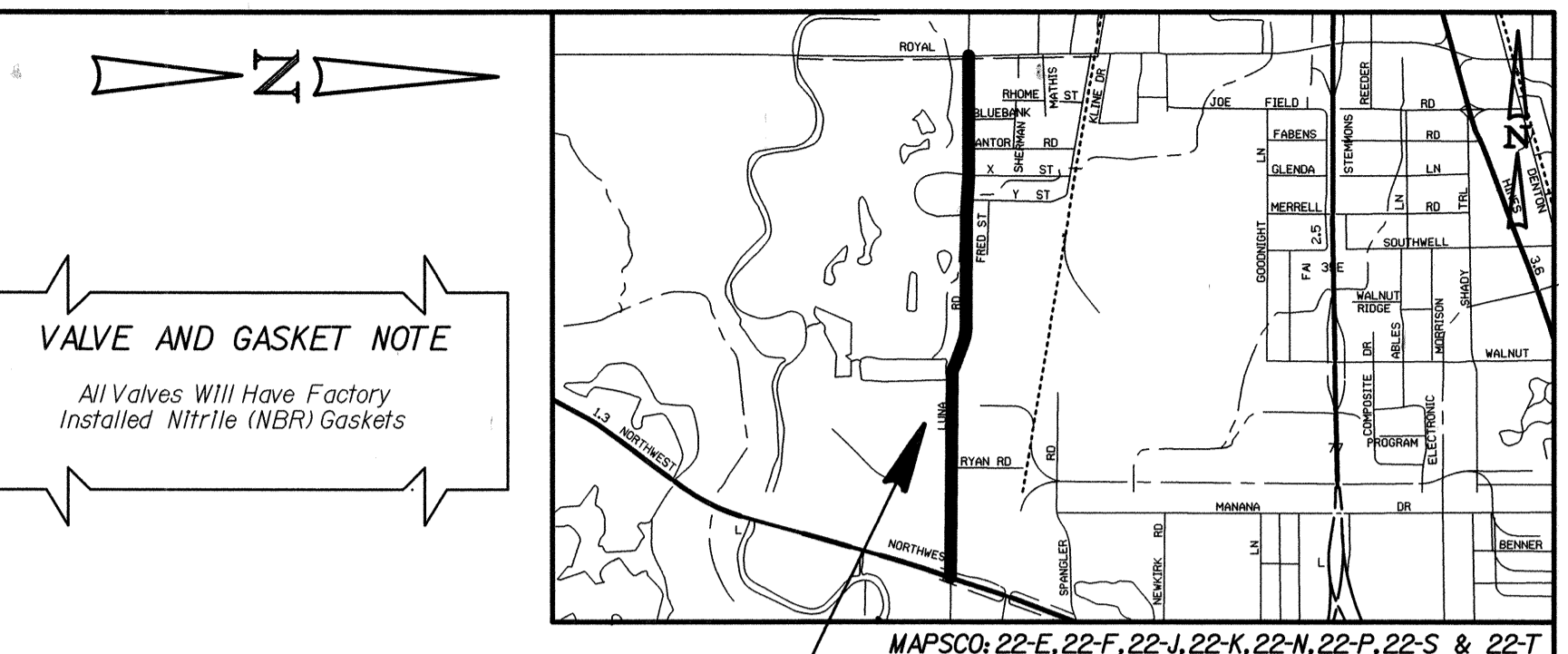
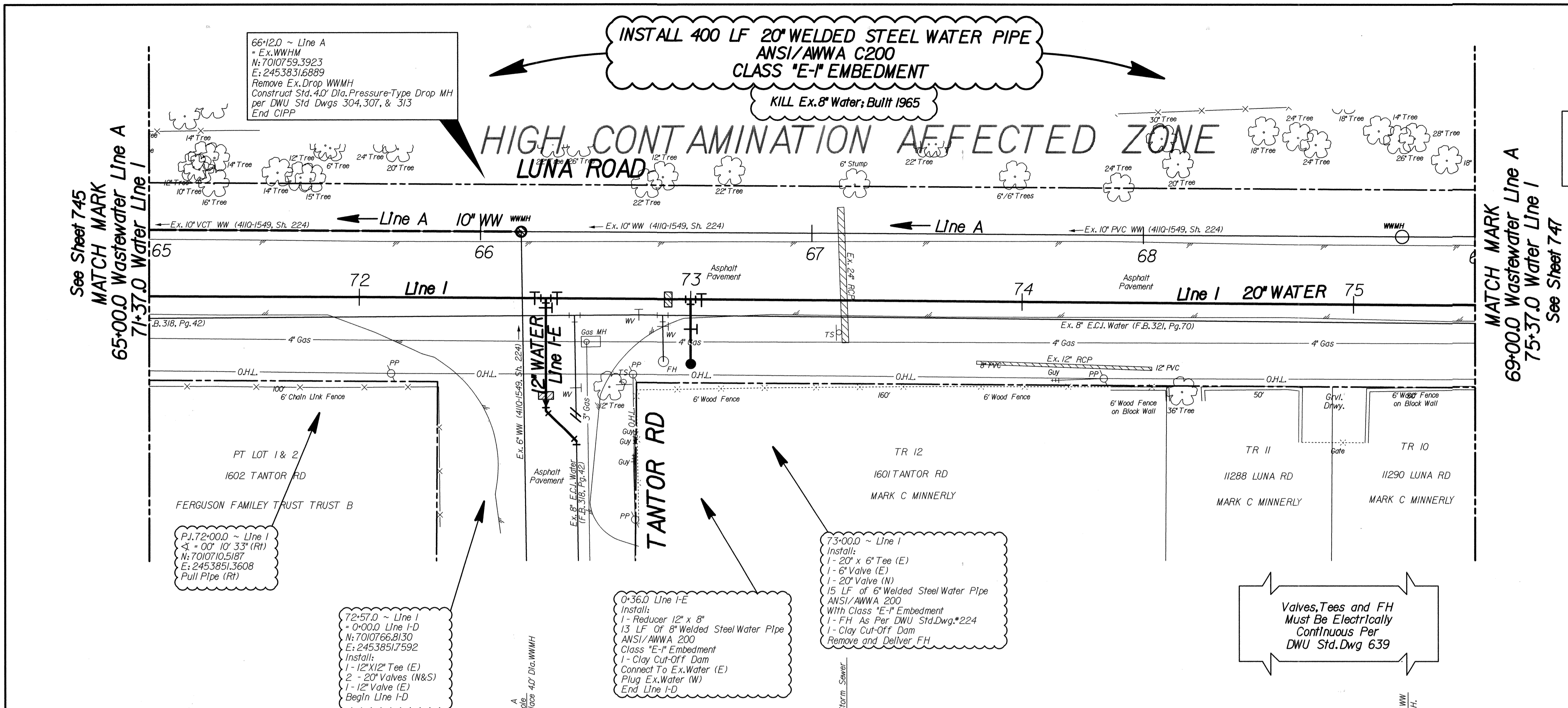
CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

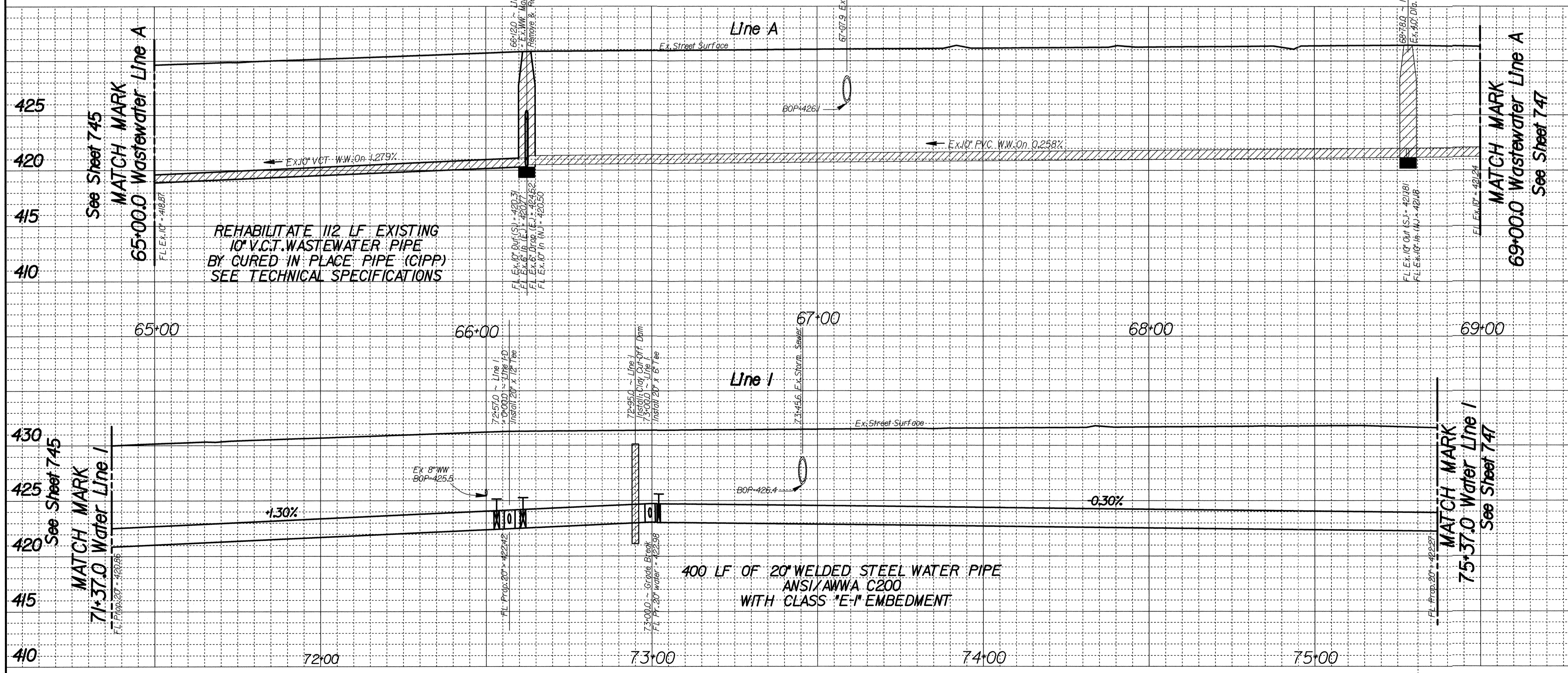
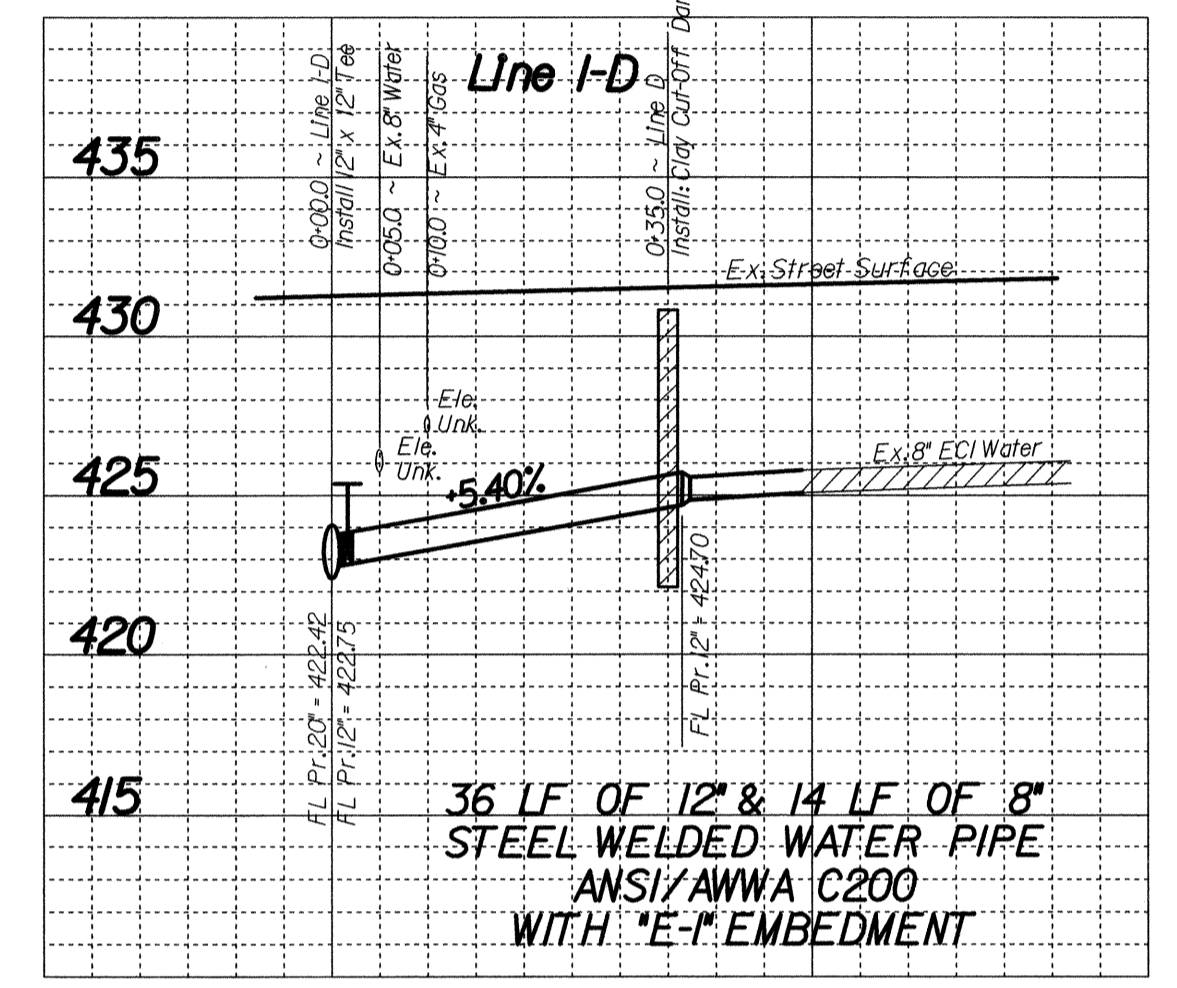
CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&M Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005



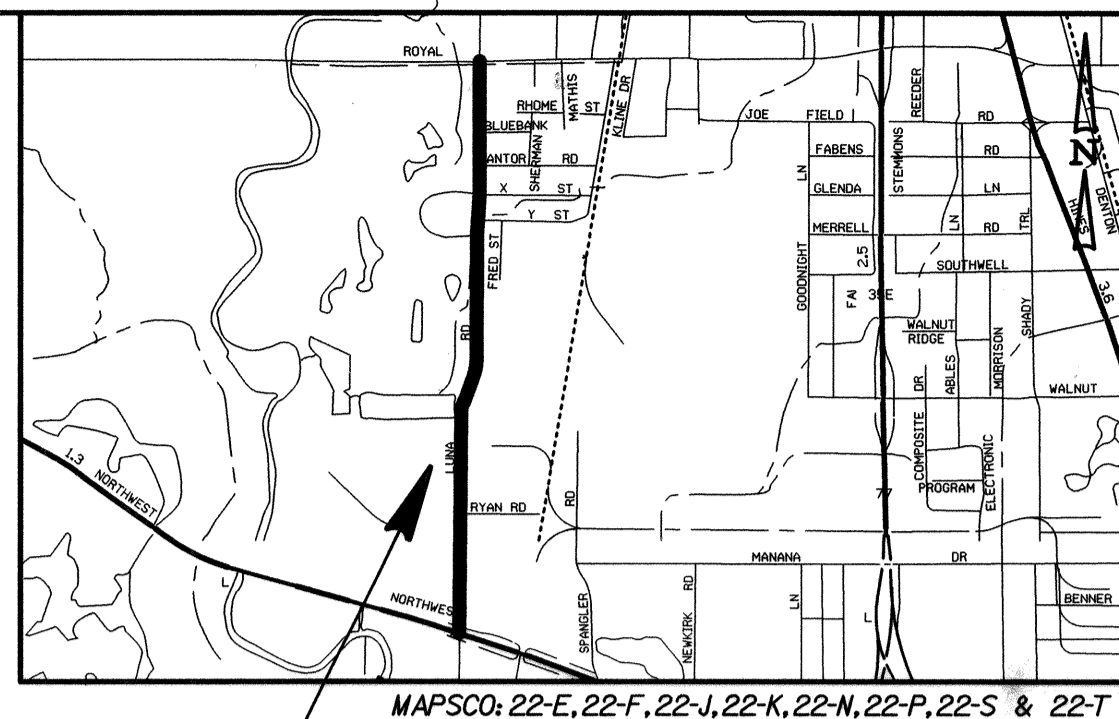
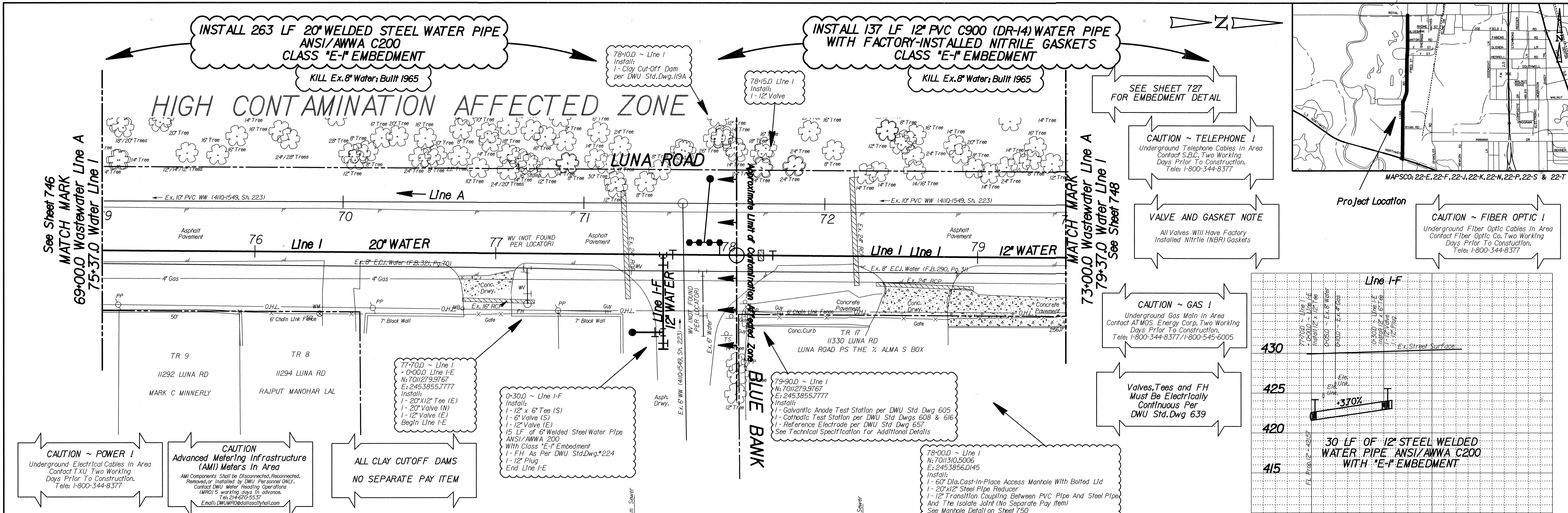
REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9'x 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. = 423.26					
STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27					
Point	Northing	Easting	Elev.	Description	
#15	7010374.2919	2453820.5538	425.62	Cut X-	
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 188-13					
WASTEWATER 185-13					
DWU Engineering Services					
CONTRACT NO. 21-341/342			PID: 1210		
12" & 20" WATER & 10" WASTEWATER					
LUNA ROAD					
NORTHWEST HWY & ROYAL LN					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Keptra Cham	Shields Keptra Cham	NOV 2021	411Q	1549	745



VALVE AND GASKET NOTE
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets



REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9' x 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. - 423.26					
STD.WDBM on north end of a 15' x 24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. - 425.27					
Point	Northing	Easting	Elev.	Description	
#16	7010785.9162	2453870.7103	431.15	X CUT	
Horizontal Scale: 1" = 20'		Vertical Scale: 1" = 6'			
REFERENCES					
WATER 18W-13					
WASTEWATER 18S-13					
DWU Engineering Services					
CONTRACT NO. 21-341/342		PID: 1210			
12" & 20" WATER & 10" WASTEWATER					
LUNA ROAD					
NORTHWEST HWY & ROYAL LN					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Keprta Cham	Shields Keprta Cham	NOV 2021	411Q	1549	746



SEE SHEET 727 FOR EMBEDMENT DETAIL

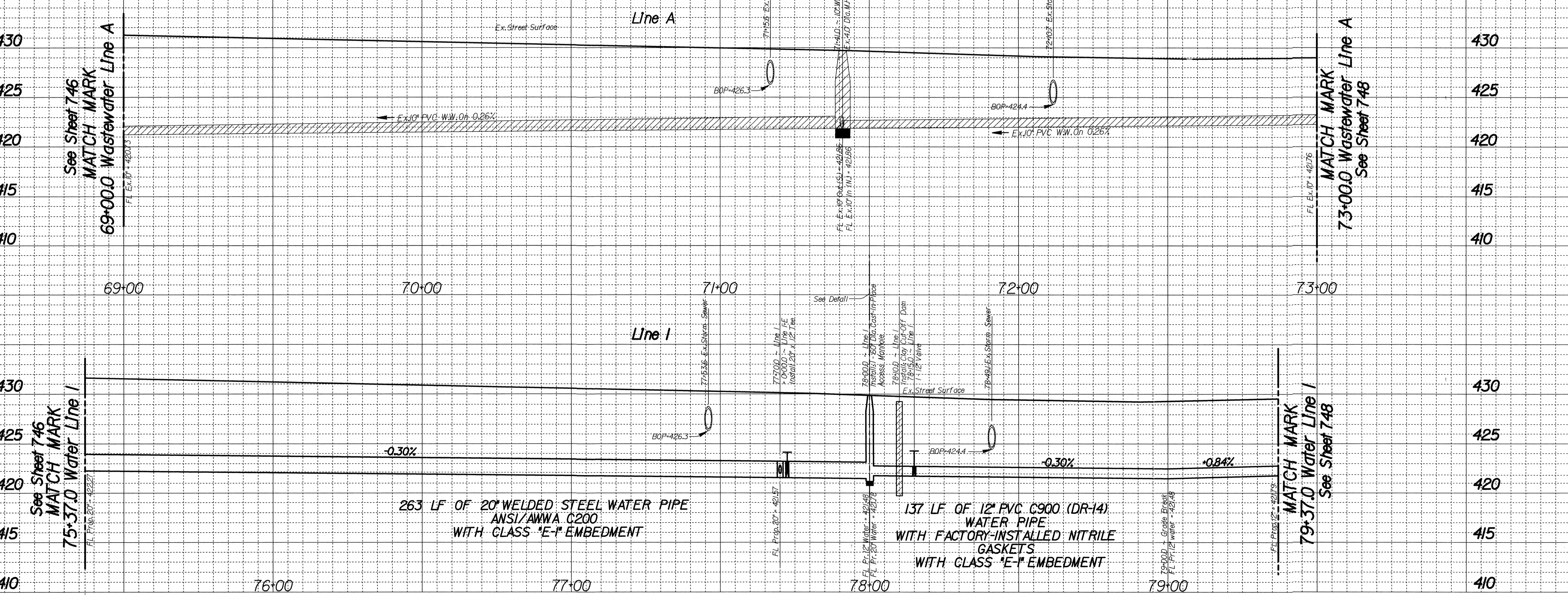
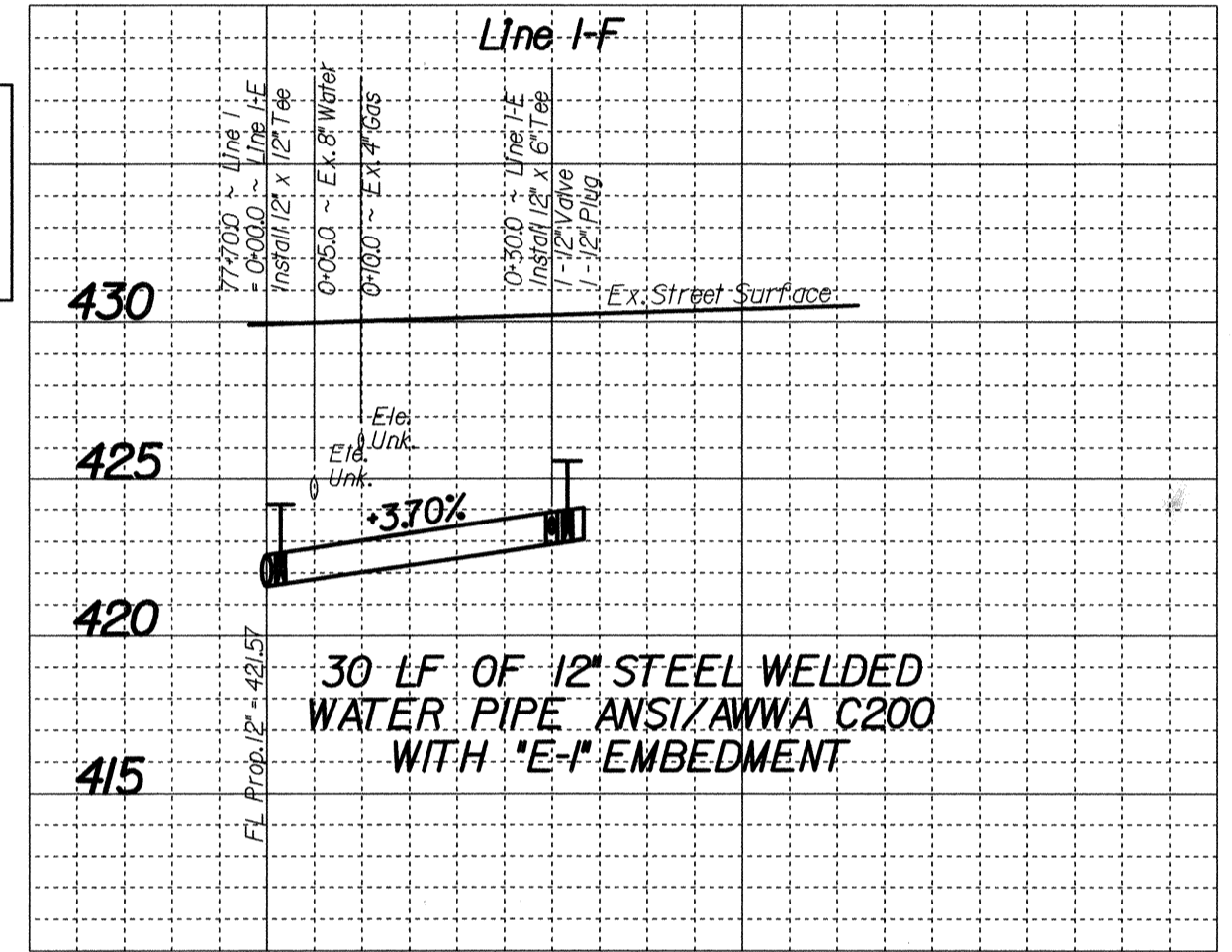
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377

VALVE AND GASKET NOTE
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets

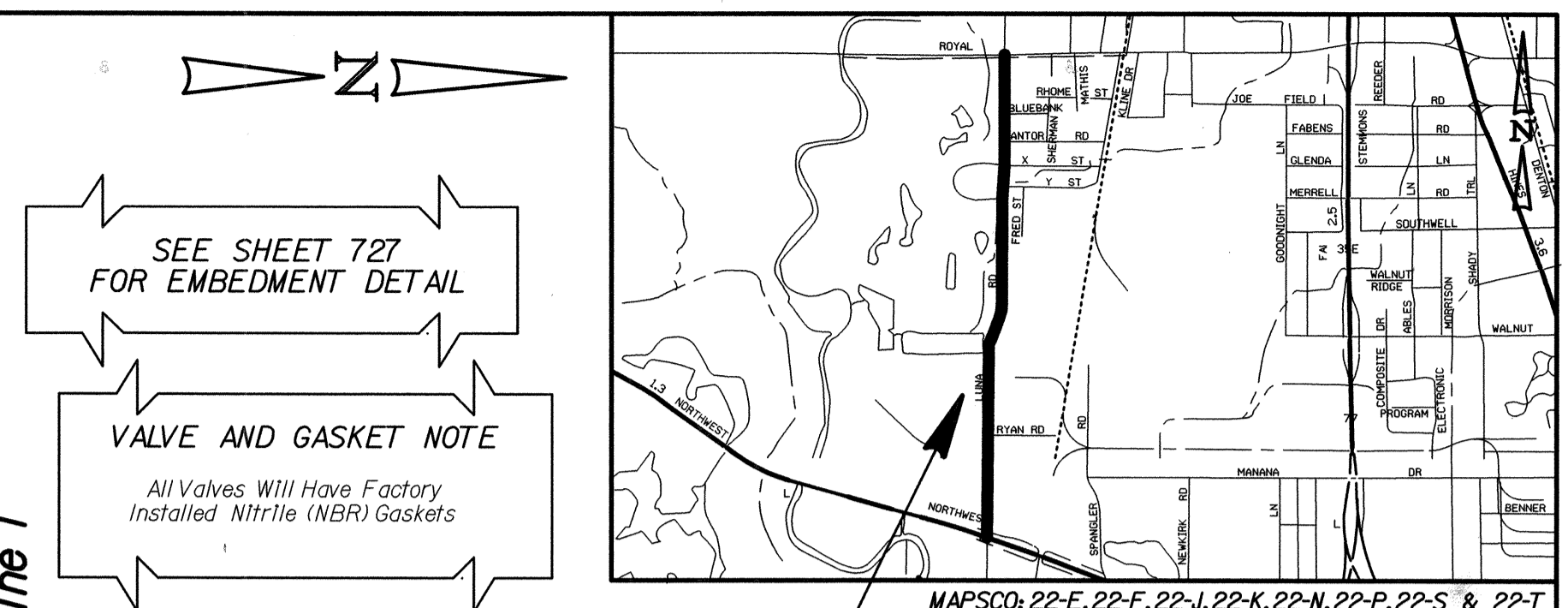
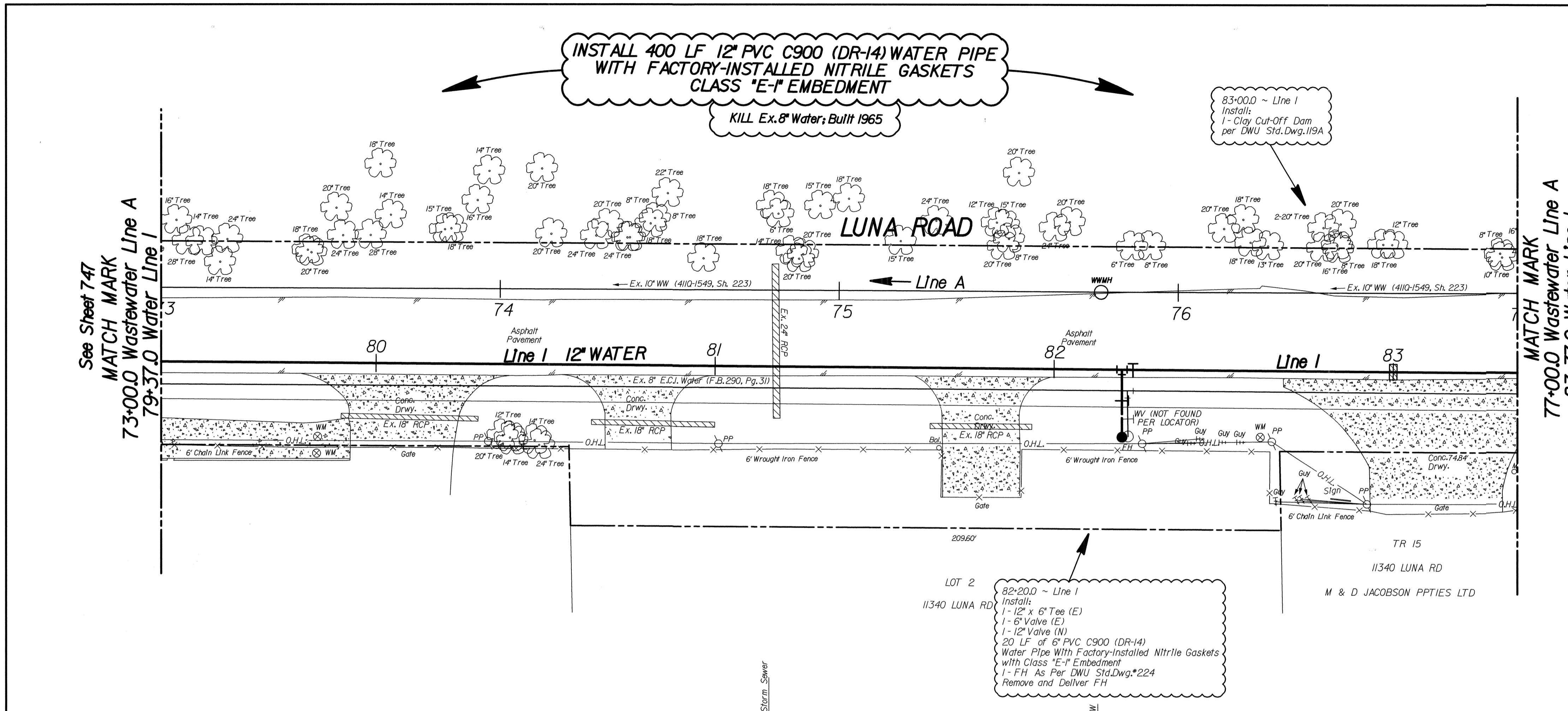
CAUTION ~ GAS !
Underground Gas Main In Area Contact ATMOS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377/1-800-545-6005

Valves, Tees and FH Must Be Electrically Continuous Per DWU Std. Dwg 639

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377



REVISIONS					
REV NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9'x 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. - 423.26					
STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. - 425.27					
Point	Northing	Easting	Elev.	Description	
71T	701216.6862	2453872.3912	431.17	X CUT	
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 5'					
REFERENCES					
WATER 18M-13					
WASTEWATER 18S-13					
DWU Engineering Services					
CONTRACT NO. 21-341/342			PID: 1210		
12" & 20" WATER					
LUNA ROAD					
NORTHWEST HWY & ROYAL LN					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Keppta Cham	Shields Keppta Cham	NOV 2021	411Q	1549	747



SEE SHEET 727 FOR EMBEDMENT DETAIL

VALVE AND GASKET NOTE
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets

ALL CLAY CUTOFF DAMS
NO SEPARATE PAY ITEM

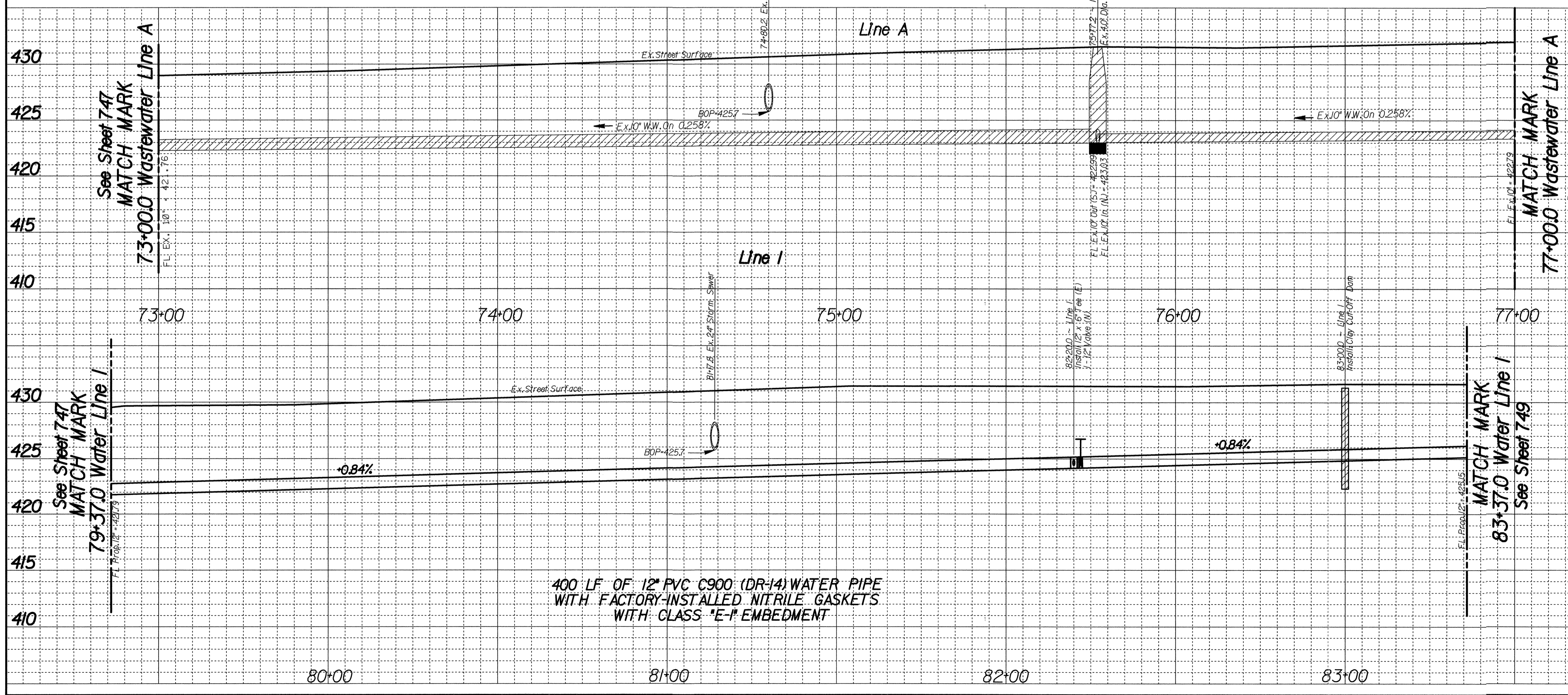
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377

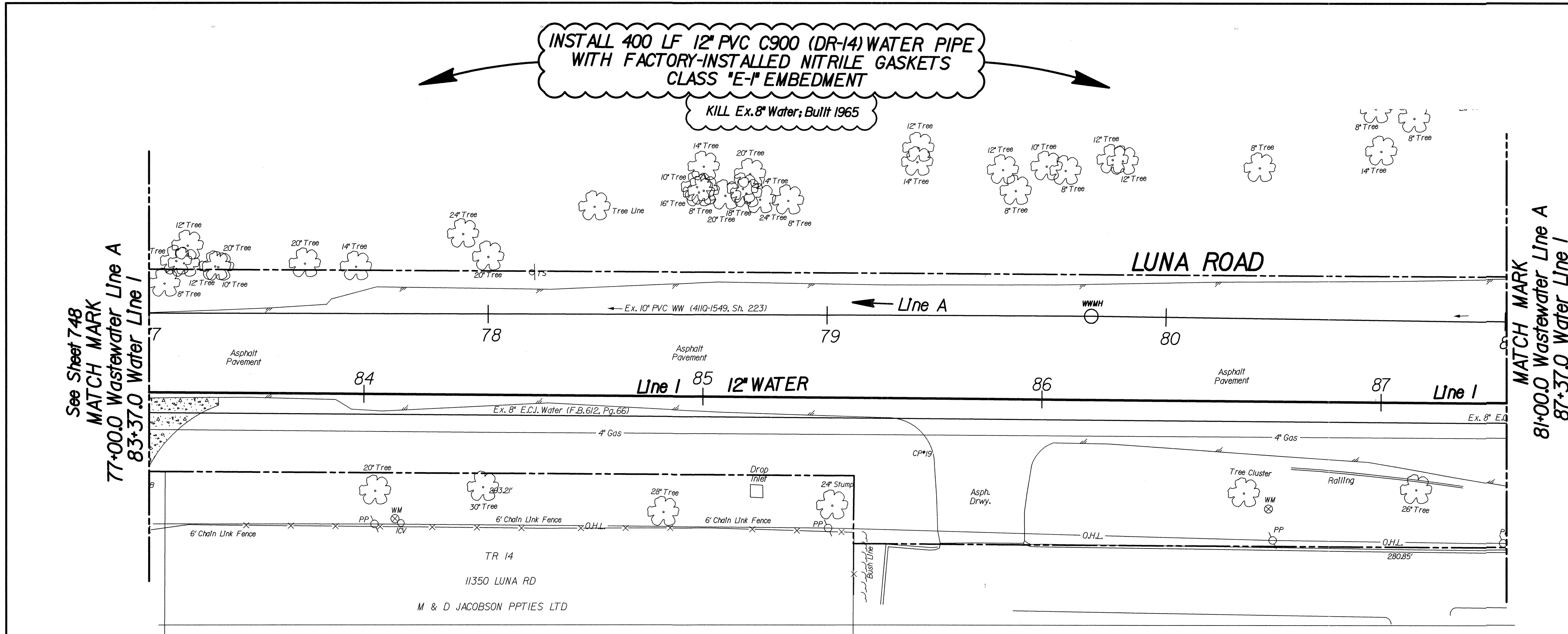
CAUTION ~ POWER !
Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area Contact AMOS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377 / 1-800-545-6005

CAUTION
Advanced Metering Infrastructure (AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected, Removed, or Installed by DWU Personnel ONLY. Contact DWU Meter Reading Operations (MRO) 5 working days in advance. Tel: 214-670-5537 E-mail: DWUMRO@dallascityhall.com

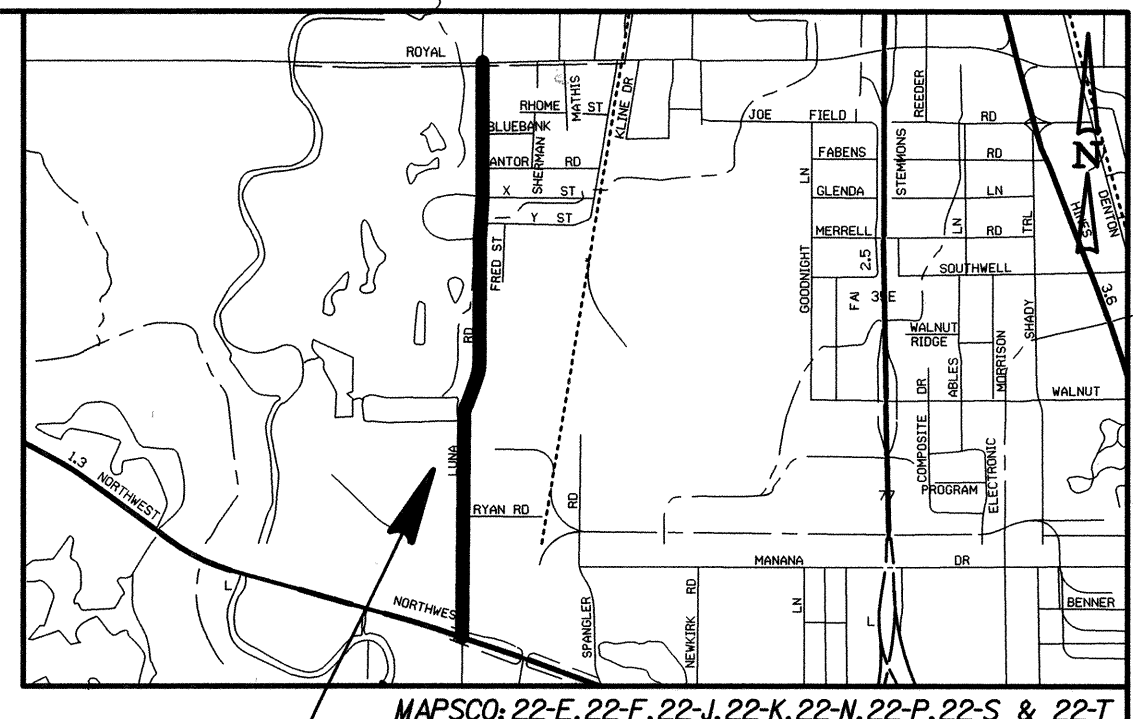


REVISIONS					
REV. NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS					
Bench Mark STD.WDBM on center of east concrete headwall to a triple 9'X 5' concrete box culvert under Luna Road and 315' north Highway #14. Elev. - 423.26					
STD.WDBM on north end of a 15'X24' concrete driveway culvert on the east side of Luna Road and 07 miles north of Ryan Road. Elev. - 425.27					
Point	Northing	Easting	Elev.	Description	
*18	701677.0874	2453870.3449	431.40	X CUT	
Horizontal Scale: 1" = 20'					
Vertical Scale: 1" = 6'					
REFERENCES					
WATER 18W-13					
WASTEWATER 18S-13					
DWU Engineering Services					
CONTRACT NO. 21-341/342			PID: 1210		
12" WATER					
LUNA ROAD					
NORTHWEST HWY & ROYAL LN					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Kepria Cham	Shields Kepria Cham	NOV 2021	411Q	1549	748



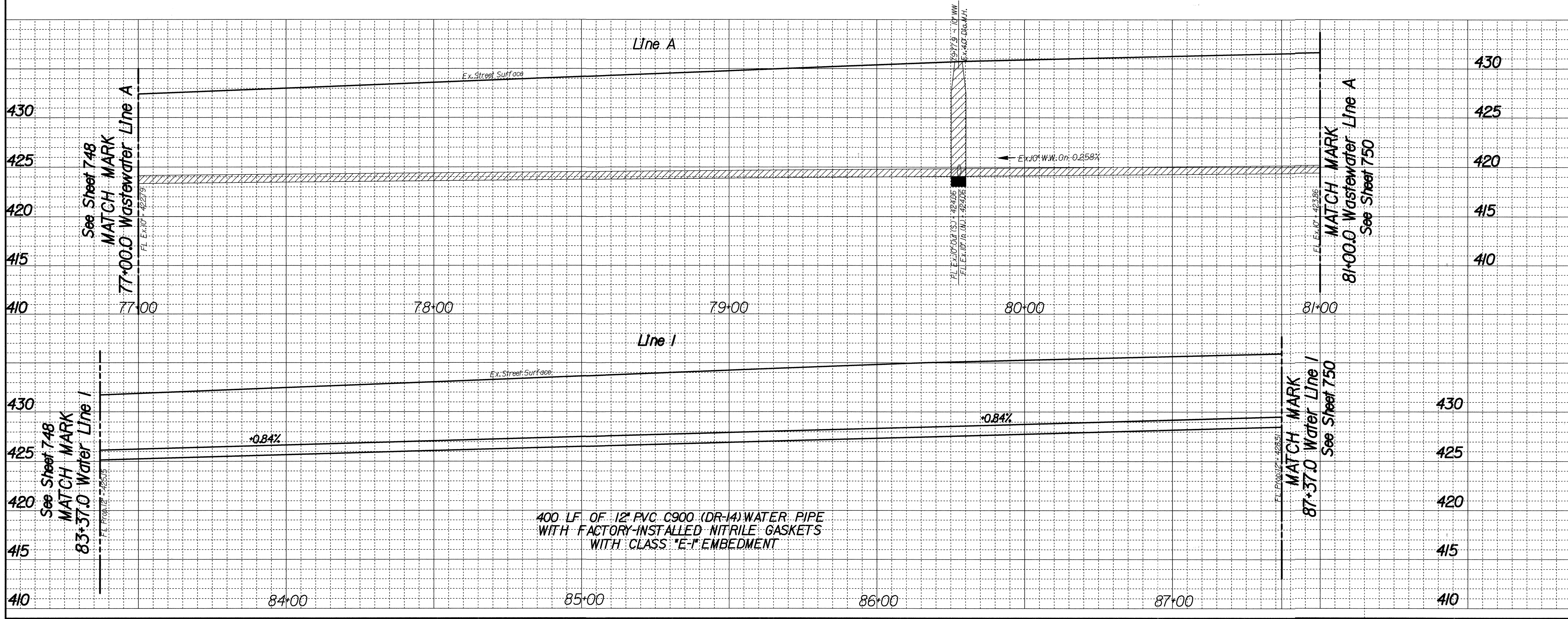
INSTALL 400 LF 12" PVC C900 (DR-14) WATER PIPE WITH FACTORY-INSTALLED NITRILE GASKETS CLASS "E-I" EMBEDMENT
 KILL Ex. 8" Water; Built 1965

VALVE AND GASKET NOTE
 All Valves Will Have Factory Installed Nitrile (NBR) Gaskets



Project Location
 SEE SHEET 727 FOR EMBEDMENT DETAIL

- ALL CLAY CUTOFF DAMS NO SEPARATE PAY ITEM**
- CAUTION ~ TELEPHONE !**
Underground Telephone Cables In Area Contact S.B.C. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ FIBER OPTIC !**
Underground Fiber Optic Cables In Area Contact Fiber Optic Co. Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ POWER !**
Underground Electrical Cables In Area Contact TXU Two Working Days Prior To Construction. Tele: 1-800-344-8377
- CAUTION ~ GAS !**
Underground Gas Main In Area Contact AMOS Energy Corp. Two Working Days Prior To Construction. Tele: 1-800-344-8377/1-800-545-6005
- CAUTION Advanced Metering Infrastructure (AMI) Meters In Area**
AMI Components Shall be Disconnected, Reconnected, Removed, or Installed by DWU Personnel ONLY. Contact DWU Meter Reading Operations (MRO) 5 working days in advance. Tel: 214-670-5537 Email: DWUMRO@dallascityhall.com



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Bench Mark
 STD.WDBM on center of east concrete headwall to a triple 9'X 5' concrete box culvert under Luna Road and 315' north Highway #114. Elev. = 423.26

STD.WDBM on north end of a 15'X24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road. Elev. = 425.27

Point	Northing	Easting	Elev.	Description
*19	7012079.0716	2453877.3034	434.27	PK Nail

Horizontal Scale: 1" = 20'
 Vertical Scale: 1" = 6'

REFERENCES
 WATER 18W-13
 WASTEWATER 18S-13

DWU Engineering Services
 CONTRACT NO. 21-341/342 | PID: 1210

12" WATER
 LUNA ROAD
 NORTHWEST HWY & ROYAL LN
 DALLAS WATER UTILITIES
 CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Keprta Cham	Shields Keprta Cham	NOV 2021	411Q	1549	749

INSTALL 120 LF 12" PVC C900 (DR-14) WATER PIPE WITH FACTORY-INSTALLED NITRILE GASKETS CLASS "E-1" EMBEDMENT

KILL Ex. 8" Water, Built 1965

88+00.0 ~ Line 1
Install:
1 - Clay Cut-Off Dam per DWU Std. Dwg. 119A

LUNA ROAD

CITY OF FARMERS BRANCH
CITY OF DALLAS

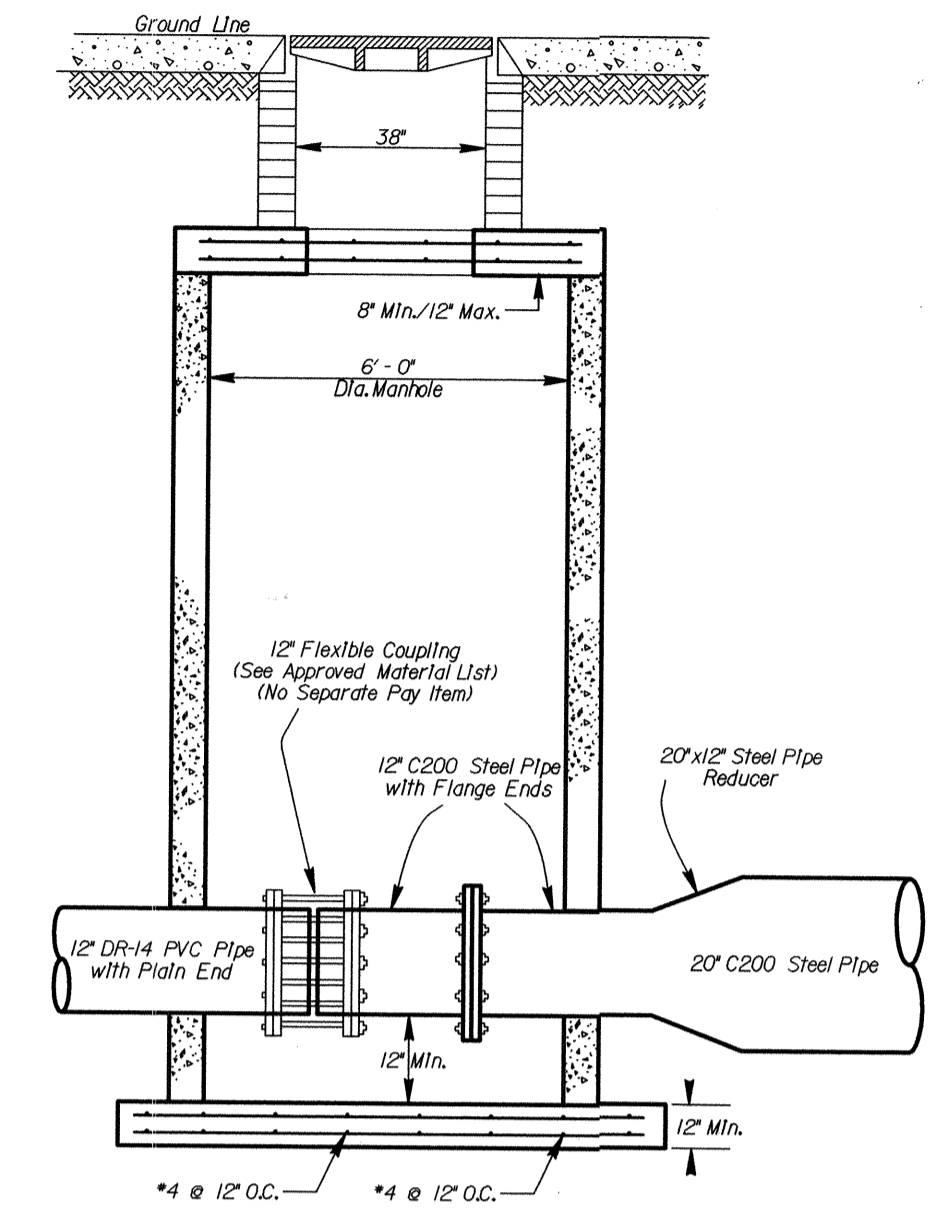
ROYAL LANE

SEE SHEET 727 FOR EMBEDMENT DETAIL

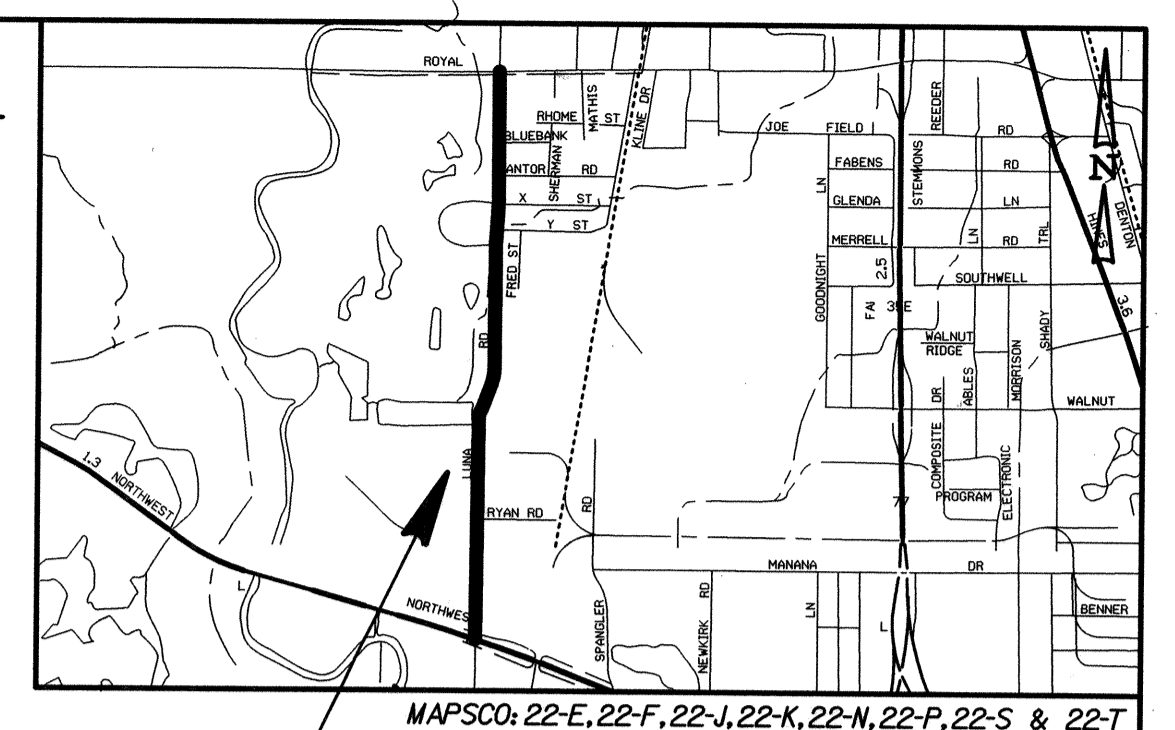
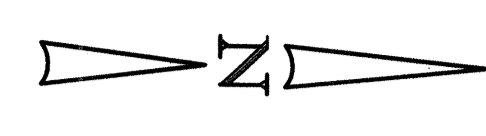
PRIOR TO WORKING WITHIN THE CITY OF FARMERS BRANCH, DWU AND ITS CONTRACTOR MUST COORDINATE WITH THE CITY OF FARMERS BRANCH, CONTACT DWU-WHOLESOME SERVICES AT 214-670-5887 FOR COORDINATION.

88+75.5 ~ Line 1
4' x 43" 20' 17" (F.R.)
N: 7012267.5117
E: 2453905.9273
- Ex. 16" DI Water
Install:
1 - 12" Valve
1 - 12" 45° Bend
1 - 16" x 12" Reducer
Connect to Ex. 16" DI Water (E.)
Plug Ex. 16" Water (W) End Line

Manhole Detail for Stations 53+00.0 & 78+00.0



VALVE AND GASKET NOTE
All Valves Will Have Factory Installed Nitrile (NBR) Gaskets



Project Location

ALL CLAY CUTOFF DAMS NO SEPARATE PAY ITEM

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.D.C. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact T&E Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&M Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005

CAUTION Advanced Metering Infrastructure (AMI) Meters In Area
AMI Components Shall be Disconnected, Reconnected, Removed or Installed by DWU Personnel ONLY.
Contact DWU Meter Reading Operations (MRO) 5 working days in advance.
Tel: 214-670-5537
Email: DWUMRO@dallascityhall.com

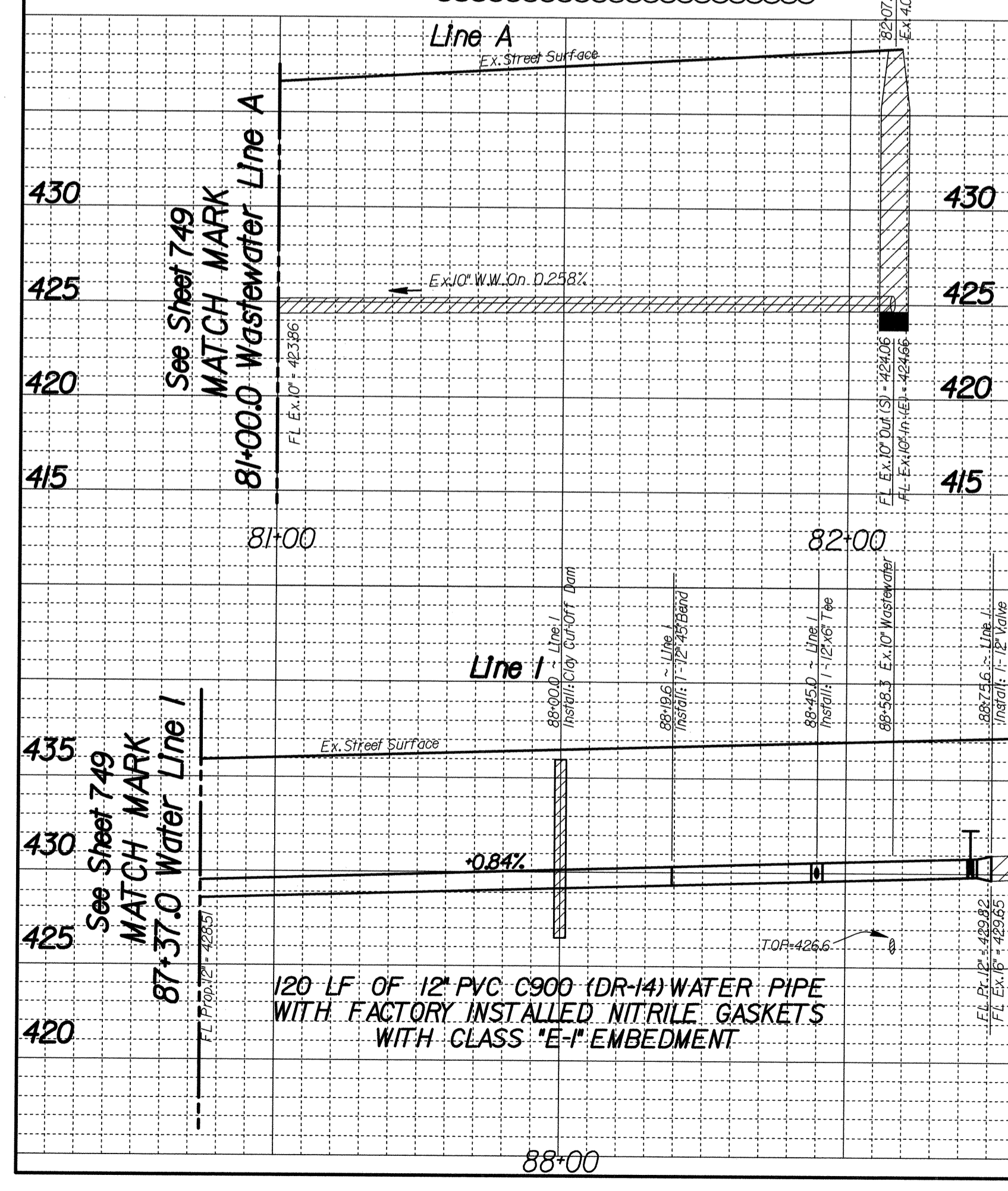
See Sheet 749 MATCH MARK
81+00.0 Wastewater Line A
87+37.0 Water Line 1

Line A

Line 1 12" WATER

88+45.0 ~ Line 1
Install:
1 - 12" x 6" Tee (SE)
1 - 6" Valve (SE)
25 LF of 6" PVC C900 (DR-14) Water Pipe With Factory-Installed Nitrile Gaskets with Class "E-1" Embedment
1 - FH As Per DWU Std. Dwg. #224
Remove and Deliver FH

P.I. 88+15.5 ~ Line 1
4' x 45" 00' 00" (R.I.)
N: 7012326.1236
E: 2453863.8921
Install:
1 - 12" 45° Bend



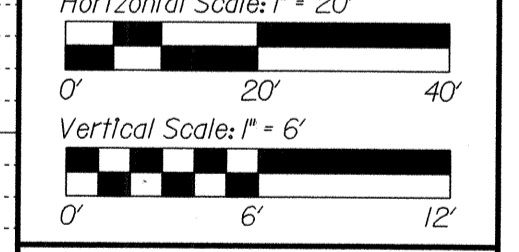
REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

Bench Mark
STD.WDBM on center of east concrete headwall to a triple 9'x 5' concrete box culvert under Luna Road and 315' north Highway #114.
Elev. - 423.26

STD.WDBM on north end of a 15'x24' concrete driveway culvert on the east side of Luna Road and 0.7 miles north of Ryan Road.
Elev. - 425.27

Point	Northing	Easting	Elev.	Description
*20	7012396.7945	2453801.1108	438.20	X CUT



REFERENCES
WATER
18W-13, 17W-13
WASTEWATER
18S-13, 17S-13

DWU Engineering Services
CONTRACT NO. 21-341/342 PID: 1210

12" WATER
LUNA ROAD
NORTHWEST HWY & ROYAL LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
Shields Kepria Cham	Shields Kepria Cham	NOV 2021	411Q	1549	750