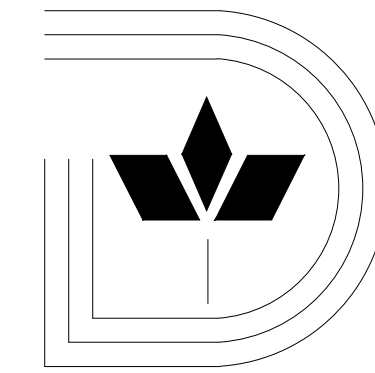


WATER AND WASTEWATER MAIN REPLACEMENTS AT 24 LOCATIONS

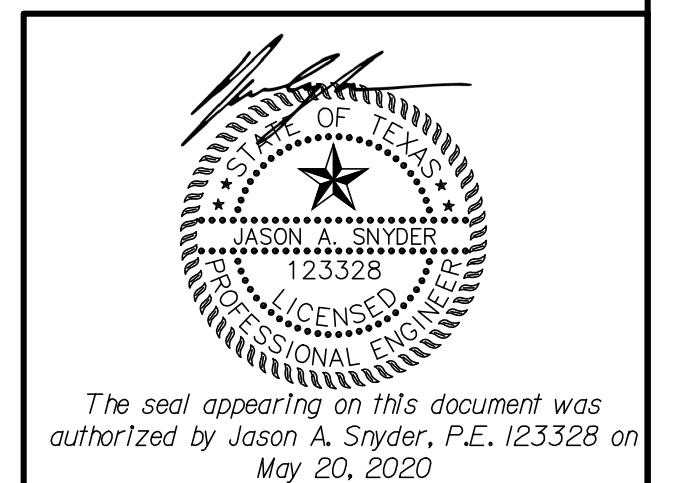
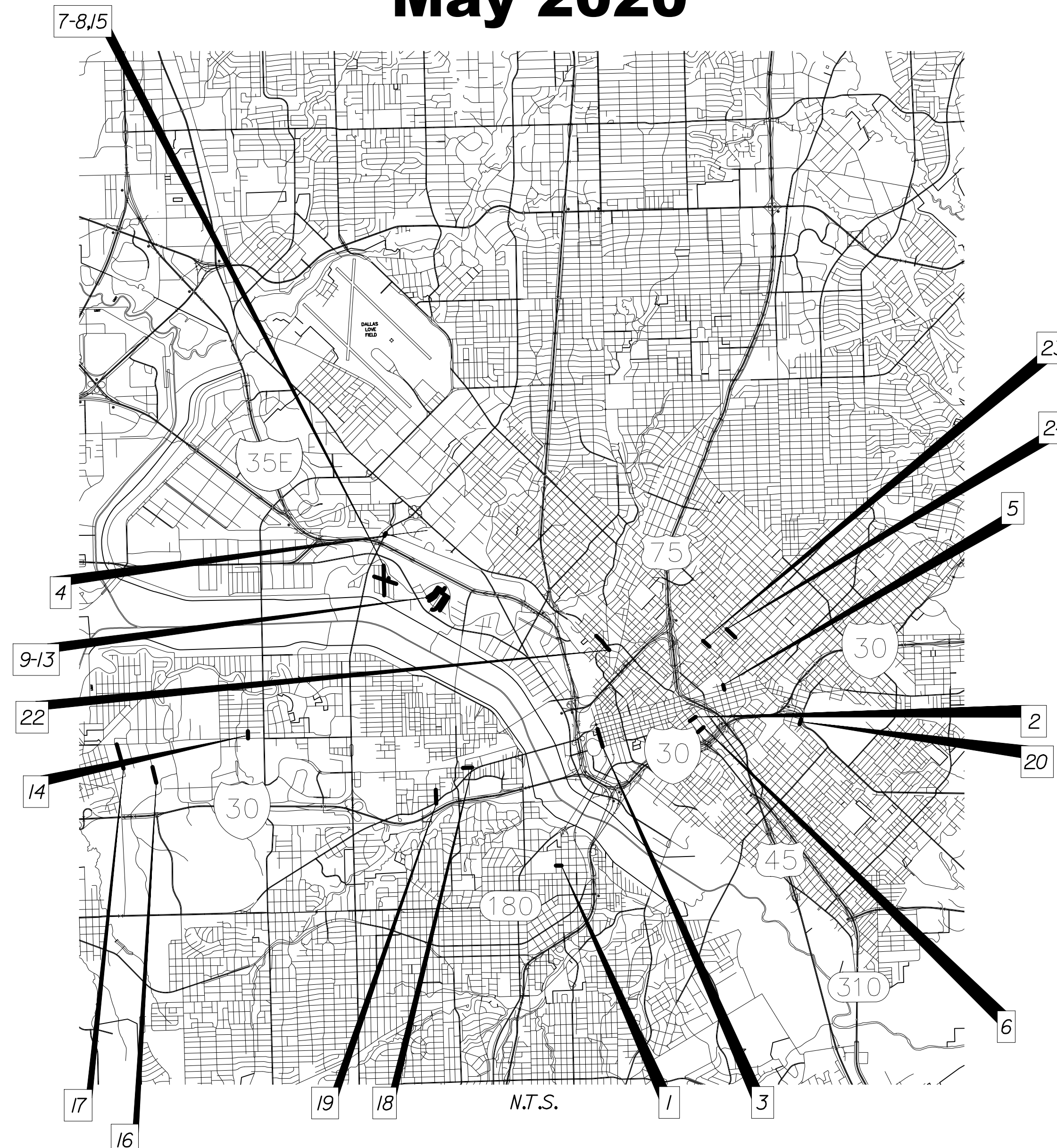


Dallas Water Utilities City Of Dallas, Texas

**Contract No. : 20 - 239/240
May 2020**

WATER & WASTEWATER SHEET INDEX

NO.	COUNCIL DISTRICT	PID	LOCATION	DESIGN SHEET
			Cover Sheet	411Q - 0132 Sht. 005
			General Notes	411Q - 0132 Sht. 006
1.	1.	3194	Sabine St from Blaylock Dr to Marsalls Ave	411Q - 0312 Sht. 007
2.	2.	5351	Easement between Young St and Cadiz St From Harwood St to South Pearl Expwy	411Q - 1599 Shts. 244 - 246
3.	2.	5337	Houston St from Main St to Young St	411Q - 1599C Shts. 187 - 191
4.	2.	5987	Inwood Rd at TRE Railroad	411Q - 1780 Sht. 223 - 224
5.	2.	5544	Malcolm X Blvd from Indiana St to Elm St	411Q - 0182 Sht. 021
6.	2.	5352	St. Louis St from Harwood St to Park Ave	411Q - 1599C Shts. 192 - 193
7.	6.	3080	Algiers St from Burgess Blvd to Lagoon Dr	411Q - 1780 Sht. 215
8.	6.	3079	Burgess Blvd from Memphis St to Iberia Ave	411Q - 1780 Shts. 216 - 217
9.	6.	3097	Chemical St from Farrington St to Converse St	411Q - 1212 Shts. 296 - 297
10.	6.	3100	Conant St from Farrington St to Converse St	411Q - 1212 Shts. 298 - 299
11.	6.	3101	Converse St from Chemical St to Conant St	411Q - 1212 Shts. 300 - 302
12.	6.	3098	Easement between Chemical St and Crampton St from Farrington St to Converse St	411Q - 1212 Shts. 303 - 304
13.	6.	3099	Easement between Crampton St and Conant St from Farrington St to Converse St	411Q - 1212 Shts. 305 - 307
14.	6.	3140	Furey St from Singleton Blvd to Toronto St	411Q - 1702 Sht. 370
15.	6.	3078	Gretna St from Mississippi Ave to Lupo Dr	411Q - 1780 Shts. 218 - 222
16.	6.	3150	Mican Dr from Bastille Dr to Mican Dr	411Q - 1702 Shts. 371 - 372
17.	6.	3139	Wehr St from Singleton Blvd South	411Q - 1702 Shts. 373 - 375
18.	6.	6006	West Commerce St from Beaver St to Evanston Ave	411Q - 1098 Sht. 102
19.	6.	3164	Winnetka Ave from Walmsley Ave to Fort Worth Ave	411Q - 0351 Shts. 020 - 021
20.	7.	5218	3rd Ave from 4th Ave/Parry Ave North	411Q - 3020 Shts. 146 - 144
21.	14.	3113	McKinnon St from Hunt St to Yeargan St	
22.	14.	3112	McKinnon St from Hunt St to Cedar Springs Rd	411Q - 1599F Sht. 077 - 078
23.	14.	3853	Skilles St from Bryan St to Live Oak St	411Q - 1658 Shts. 115 - 116
24.	14.	3105	Saint Joseph St from Live Oak St to Swiss Ave	411Q - 0119 Shts. 002 - 003



REVISIONS					
REV NO.	DATE	DESCRIPTION	BY		
△					
△					
Kimley»Horn <small>Texas Registration No. F-998</small>					
CONTRACT NO. 20-239/240					
WATER & WASTEWATER MAIN REPLACEMENTS IN 24 LOCATIONS DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	GK	MAY 2020	411Q	0132	005

GENERAL LEGENDS

GENERAL NOTES

GENERAL

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

TOPOGRAPHIC FEATURES

	Tree
	Brush, Shrub, Wood
	Swamp
	Mail Box
	Bollards
	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

	Exist. Gravel
	Exist. Asphalt
	Exist. Brick Pavers
	Exist. Concrete
	Prop. Pavement

STORM DRAINS

	Exist. Storm Drain
	Exist. Storm Manhole
	Exist. Storm Inlet
	Prop. Storm Drain
	Prop. Storm Manhole
	Prop. Storm Inlet

UTILITIES

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

WATER MAINS & APPURTENANCES

	Exist. 3/4" Service
	Exist. 2" Water Main
	Exist. 4" Water Main
	Exist. 6" Water Main
	Exist. 8" to 27" Water Main
	Exist. 30" or Larger Water Main
	Prop. 6" Water Main
	Prop. 8" to 27" Water Main
	Prop. 30" or Larger Water Main
	Future Water Main

	Exist. Water Meter
	Exist. Water Manhole
	Exist. Water Vault
	Exist. Fire Hydrant
	Prop. Water Manhole
	Prop. Water Vault
	Prop. Fire Hydrant
	Exist. 11.25" Fitting
	Exist. 22.5" Fitting
	Exist. 45" Fitting

	Exist. 90° Fitting
	Exist. Reducer
	Exist. Tee
	Exist. Tapping Sleeve
	Exist. Cross
	Exist. Plug
	Exist. Blind Flange
	Cut & Plug
	Prop. 11.25" Fitting
	Prop. 22.5" Fitting
	Prop. 45" Fitting
	Prop. 90° Fitting
	Prop. Reducer
	Prop. Tee
	Prop. Tapping Sleeve
	Prop. Plug
	Prop. Blind Flange

	Exist. Gate Valve
	Exist. High/Low Valve
	Exist. Check Valve
	Exist. Flush Point
	Exist. Air Valve
	Exist. Cathodic Test Station
	Prop. Gate Valve
	Prop. High/Low Valve
	Prop. Check Valve
	Prop. Flush Point
	Prop. Air Valve
	Prop. Cathodic Test Station

WASTEWATER MAINS & APPURTENANCES

	Exist. Wastewater Lateral
	Exist. Wastewater Manhole
	Exist. Wastewater Access Device
	Exist. Wastewater Cleanout
	Prop. Wastewater Manhole
	Prop. Wastewater Access Device
	Prop. Wastewater Cleanout
	Remove & Replace Exist. Manhole

PROJECT CONTACTS

DWU PROJECT MANAGER:	ERICK STEITLE	214 - 948 - 4248
DWU DISTRIBUTION DIVISION:	JOHNNY PARTAIN	214 - 670 - 8796
DWU WASTEWATER COLLECTION DIVISION:	JASON WU	214 - 243 - 1526
CITY OF DALLAS PW&T - TRAFFIC CONTROL:	RUSSELL FINLEY	469 - 583 - 3654

GENERAL

- All work shall be done in accordance with the North Central Texas Council Of Governments (NCTCOG) Standard Specifications For Public Works Construction (4th Edition) 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 (October, 2017).
- 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 its expense.
- The Contractor shall support telephone conduits, storm drains, water and wastewater mains when going under sold 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 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 arrow(s) 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 Inspector. Any trees or landscaping that are damaged or removed during the construction shall be replaced by the contractor at its expense.

ADVANCE METERING INFRASTRUCTURE

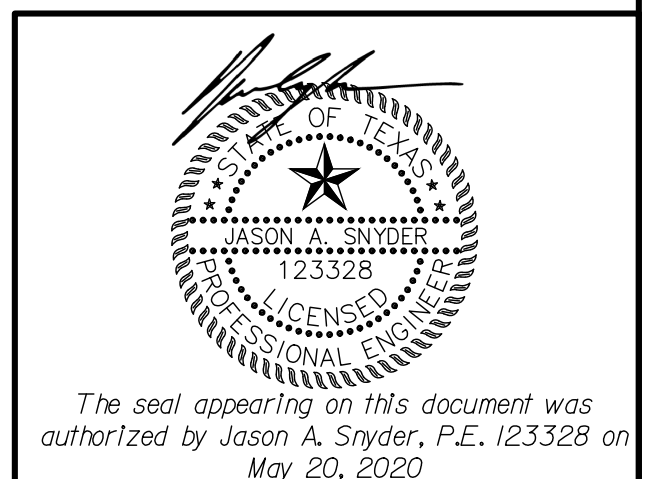
- Caution! Advanced Metering Infrastructure (AMI) Meters in the area. Contractor shall not remove, damage, or otherwise disturb AMI meter endpoint components unless otherwise directed by the DWU Meter Reading Operation (MRO) Technician.
- Contractor shall contact MRO five (5) working days in advance at 214-670-5537 and Email: DWUMRO@dallascityhall.com. If Any AMI Components shall be disconnected, reconnected, removed, or installed.
- Contractor shall install AMI meter lids for water meters 2" and smaller in all existing AMI and Proposed AMI Areas. Contractor shall also return the existing AMI lids from existing AMI Area to DWU MRO for meters 2" or smaller. NO SEPARATE PAY ITEM.
- For meters 3" or larger, the contractor shall either connect to the existing meter vault or construct a new meter vault as specified on the plans.
- Contractor shall be liable for the replacement cost of any lost or damaged AMI Components.
- All Meters in the Proposed and Existing AMI area shall be AMI-Ready Meter As Furnished by DWU. A non AMI-Ready meter shall be replaced with an AMI-Ready meter by DWU.

WATER MAIN AND APPURTENANCES

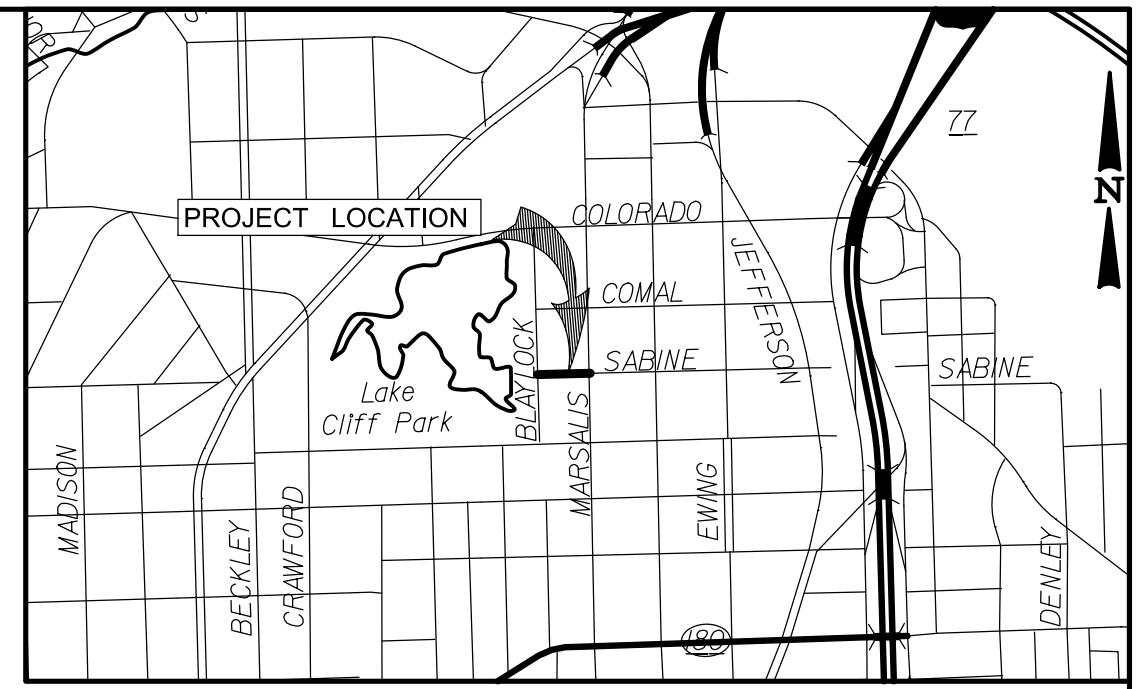
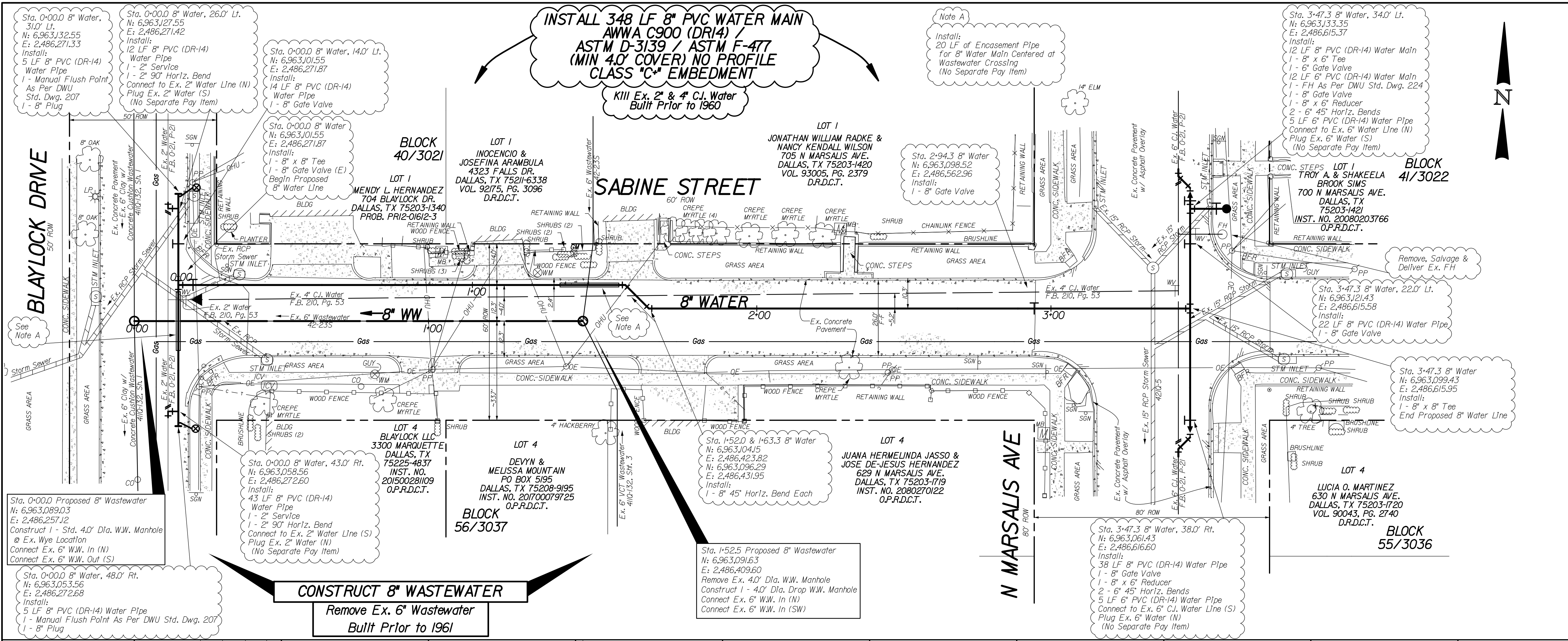
- All 6", 8" and 12" water mains shall be PVC C900 (DR-14) water pipe, with Class "C" embedment, except as noted.
- All water mains with no profiles shall have a minimum cover of four (4) feet below street grade in an improved street and five (5) feet of cover in an unimproved street or alley.
- Compact 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.
- 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.
- This project is subject to the American Iron and Steel (AIS) requirements of federal law, including federal appropriation acts. All iron and steel products for construction, alteration, maintenance, or repairs incorporated in these plans must be produced in the United States.

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 6.210(G). NO SEPARATE PAY ITEM.
- This project is subject to the American Iron and Steel (AIS) requirements of Section 608 of the Federal Water Pollution Control Act. All iron and steel products for construction, alteration, maintenance, or repairs incorporated in these plans must be produced in the United States.



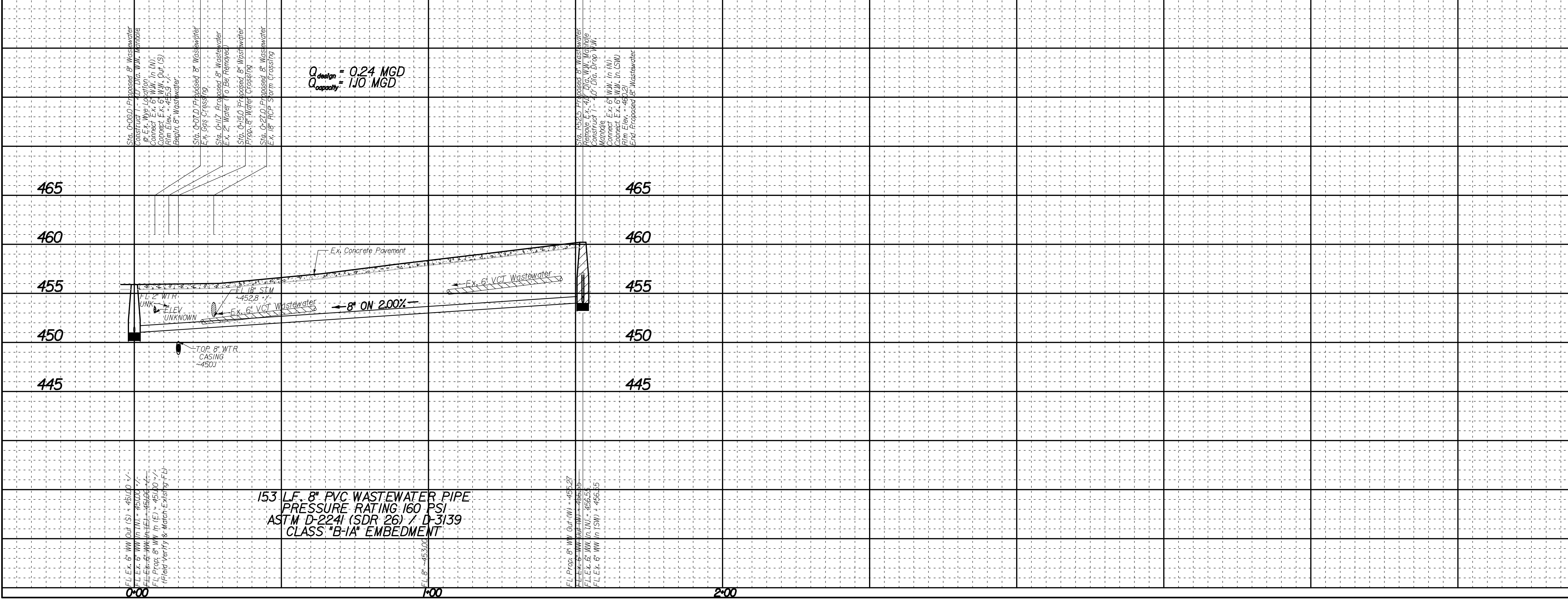
REVISIONS					
REV NO.	DATE	DESCRIPTION	BY		
Kimley»Horn <small>Texas Registration No. F-998</small>					
CONTRACT NO. 20-239/240					
GENERAL NOTES					
WATER & WASTEWATER MAIN					
REPLACEMENTS IN 24 LOCATIONS					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	MLD	MAY 2020	411Q	0132	006



CAUTION ~ ELECTRIC !
Overhead Electrical Cables In Area
Contact Onor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

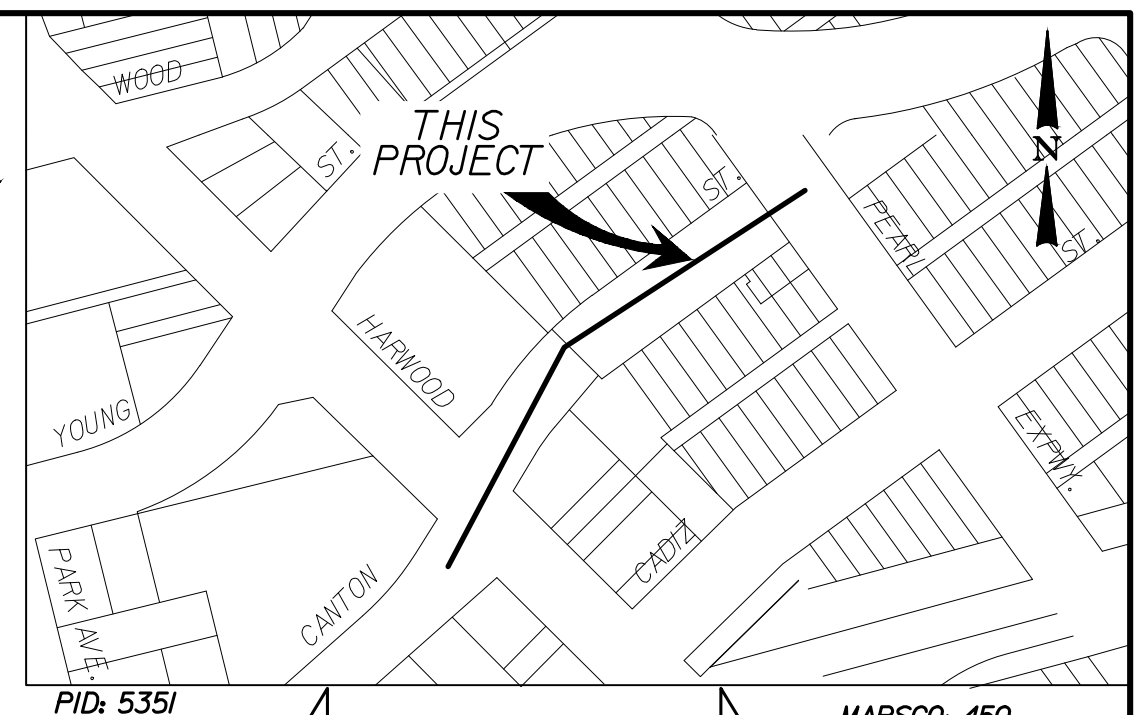
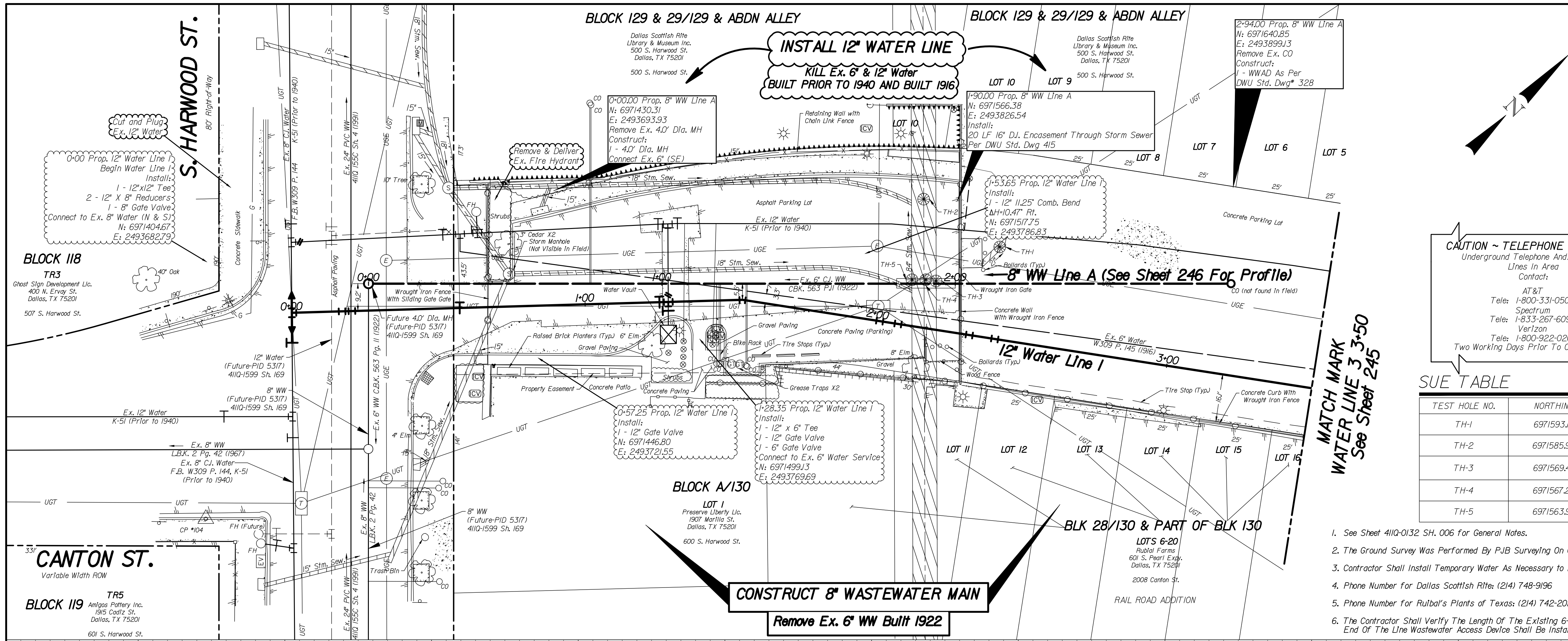
CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&MS Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005

- NOTES:
- THE GROUND SURVEY WAS PERFORMED IN JANUARY, 2020. THE DESIGN RELIES ON ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON SURFACE COORDINATES. SCALE FACTOR 1.000136506.
 - CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
 - ALL EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING AND CONTACT THE ENGINEER IF ANY UTILITY CONFLICTS ARISE.



REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
BENCHMARK 1 A STANDARD WATER DEPARTMENT BENCHMARK IS SET ON TOP OF A CONCRETE CURB AT THE CENTER OF A STORM SEWER DROP INLET AT THE NORTHEAST CORNER OF THE INTERSECTION OF MARSALIS AVE. & TENTH ST. ELEV - 503.01			
BENCHMARK COD 2 A BOLT IS SET ON TOP OF A CONCRETE CURB AT THE MID POINT ON THE SOUTHWEST CORNER OF THE INTERSECTION OF FIFTH ST. & MARSALIS AVE. ELEV - 460.73			
Point	Northing	Easting	Elev.
CP-1	6,962,133.405	2,486,309.885	465.97
CP-2	6,962,146.853	2,485,905.740	515.302
Horizontal Scale: 1" = 20' Vertical Scale: 1" = 6' 			
 Kelly C. Moncrief 05/26/2020 DWU Contract 14 20-0997010			
REFERENCES			
WATER 42-23W			
WASTEWATER 42-23S			
CRIADO			
CONTRACT NO. 20-239 / 240		PID: 3194	
8" WATER & 12" WASTEWATER MAINS SABINE STREET FROM SINGLETON BLVD. TO TORONTO ST. DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
CRIADO	CRIADO	MAY 2020	41IQ
			NUMBER
			132
			SHEET
			007

5/20/2020
4:00 PM



CAUTION ~ TELEPHONE & CABLE!
Underground Telephone And/Or Cable Lines In Area
Contact:
AT&T
Tele: 1-800-331-0500
Spectrum
Tele: 1-833-267-6094
Verizon
Tele: 1-800-922-0204
Two Working Days Prior To Construction.

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

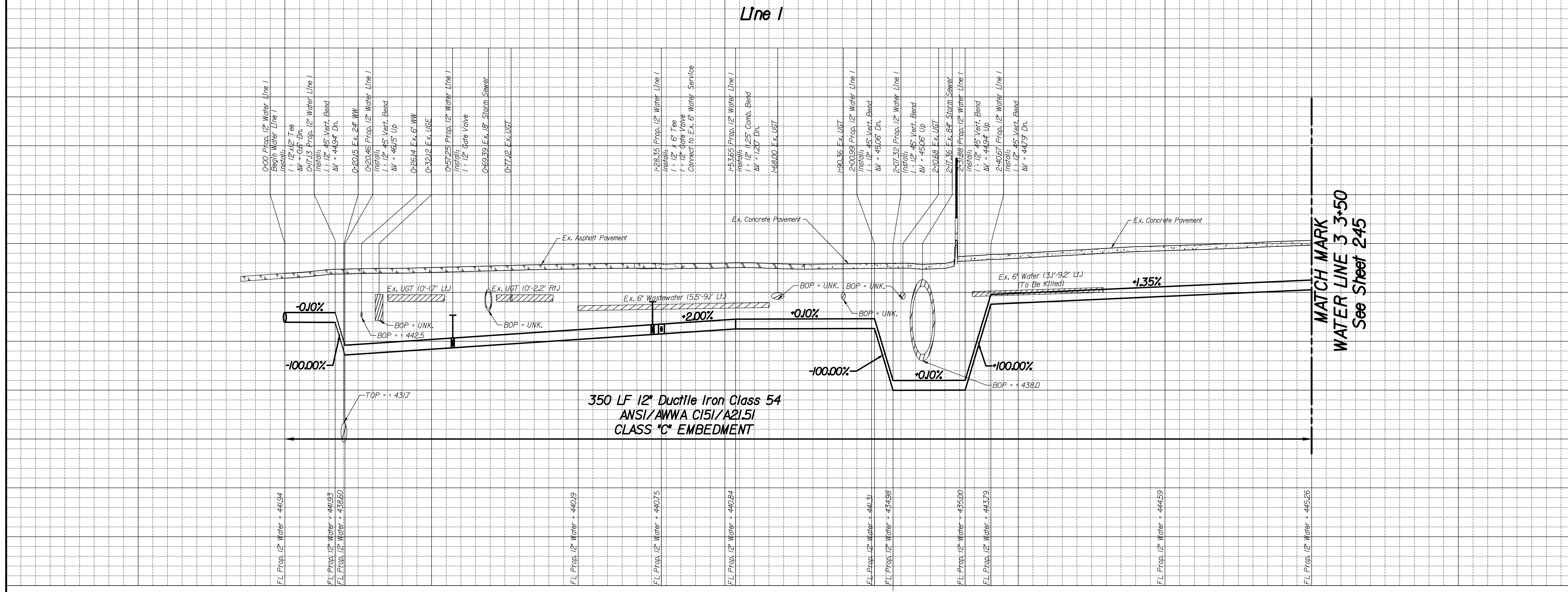
CAUTION ~ POWER!
Overhead & UGE Cables In Area
Contact ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

SUE TABLE

TEST HOLE NO.	NORTHING	EASTING	DEPTH (FT)	DESCRIPTION
TH-1	6971593.15	2493853.14	4.48	2" Storm Sewer
TH-2	6971585.93	2493805.38	1.44	8" Storm Sewer
TH-3	6971569.47	2493828.28	5.00	8" Storm Sewer
TH-4	6971567.29	2493825.55	1.57	8" Storm Sewer
TH-5	6971563.90	2493822.28	5.00	8" Storm Sewer

MATCH MARK WATER LINE 3 3'-50 See Sheet 245

- See Sheet 411Q-0132 SH. 006 for General Notes.
- The Ground Survey Was Performed By PJB Surveying On October 22, 2019. The Design Relies On The Assumptions Provided By The Survey.
- Contractor Shall Install Temporary Water As Necessary To Maintain Water Service For All Adjacent Properties and Water Lines.
- Phone Number for Dallas Scottish Rite: (214) 748-9196
- Phone Number for Rulba's Plants of Texas: (214) 742-2016
- The Contractor Shall Verify The Length Of The Existing 6-Inch Wastewater Main Prior To Construction Using Television Inspection. The Proposed End Of The Line Wastewater Access Device Shall Be Installed Five Feet Beyond The Last Active Wastewater Lateral.



REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK *45-0-2
A City of Dallas Benchmark Is Set on Top of a Concrete Curb at the Southwest Corner of a Storm Sewer Drop Inlet at the Southeast Corner of the Intersection.
ELEV = 442.696 MAPSCO 450

BENCHMARK *45-0-3
A City of Dallas Benchmark Is Set on Top of a Concrete Curb, 20' South of the Centerline of Enroy Street.
ELEV = 443.327 MAPSCO 450

CONTROL POINT *104
"X" CUT
N. 697133465; E. 249371262; ELEV. = 447.487

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

REFERENCES

WATER
38-26w

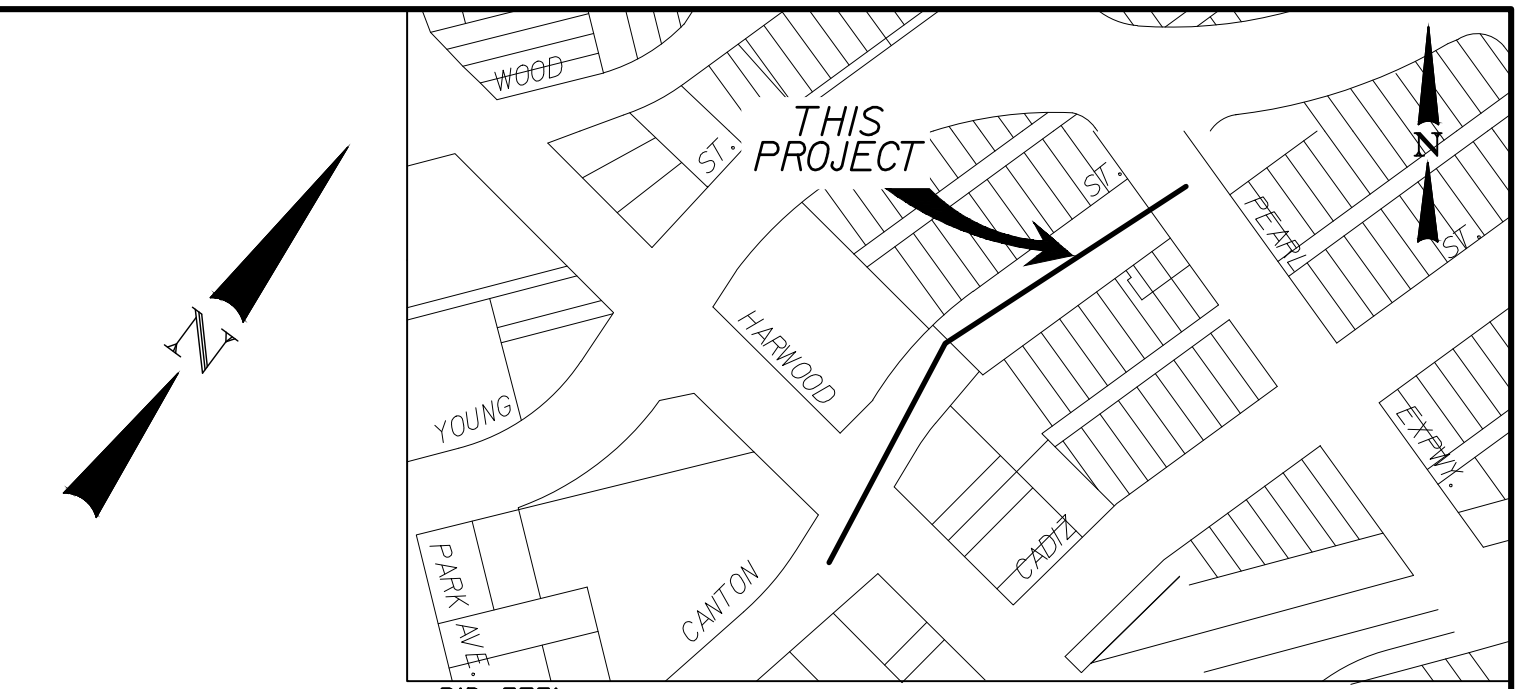
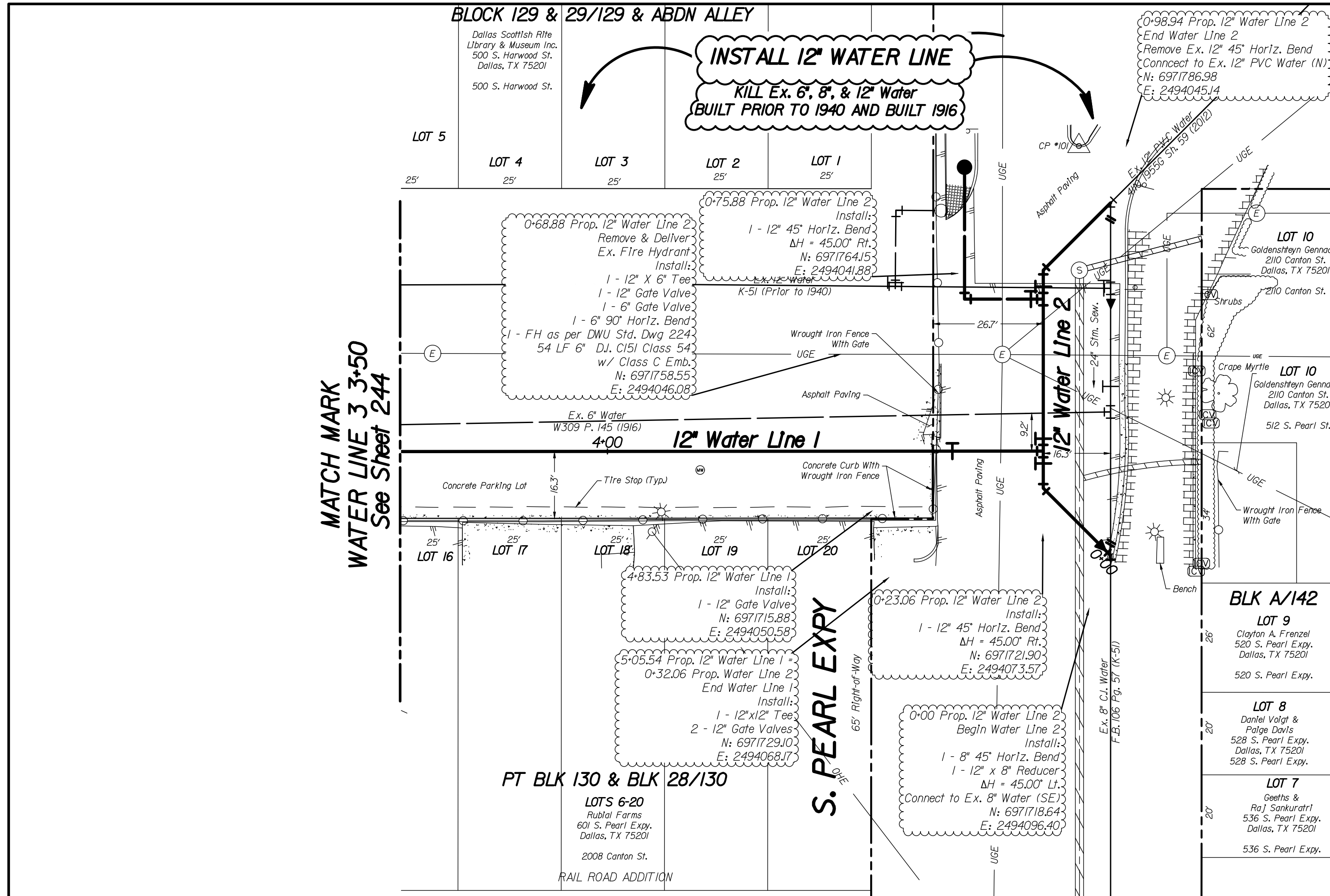
WASTEWATER
38-26s(C)

Kimley»Horn
Texas Registration No. F-988

PID: 5351 CONTRACT NO. 20-239/240

12" WATER & 8" WASTEWATER
ESMT. BTWN. YOUNG ST. AND CADIZ ST.
HARWOOD ST. TO S. PEARL EXPY.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	RHJ	MAY 2020	4110	1599	244

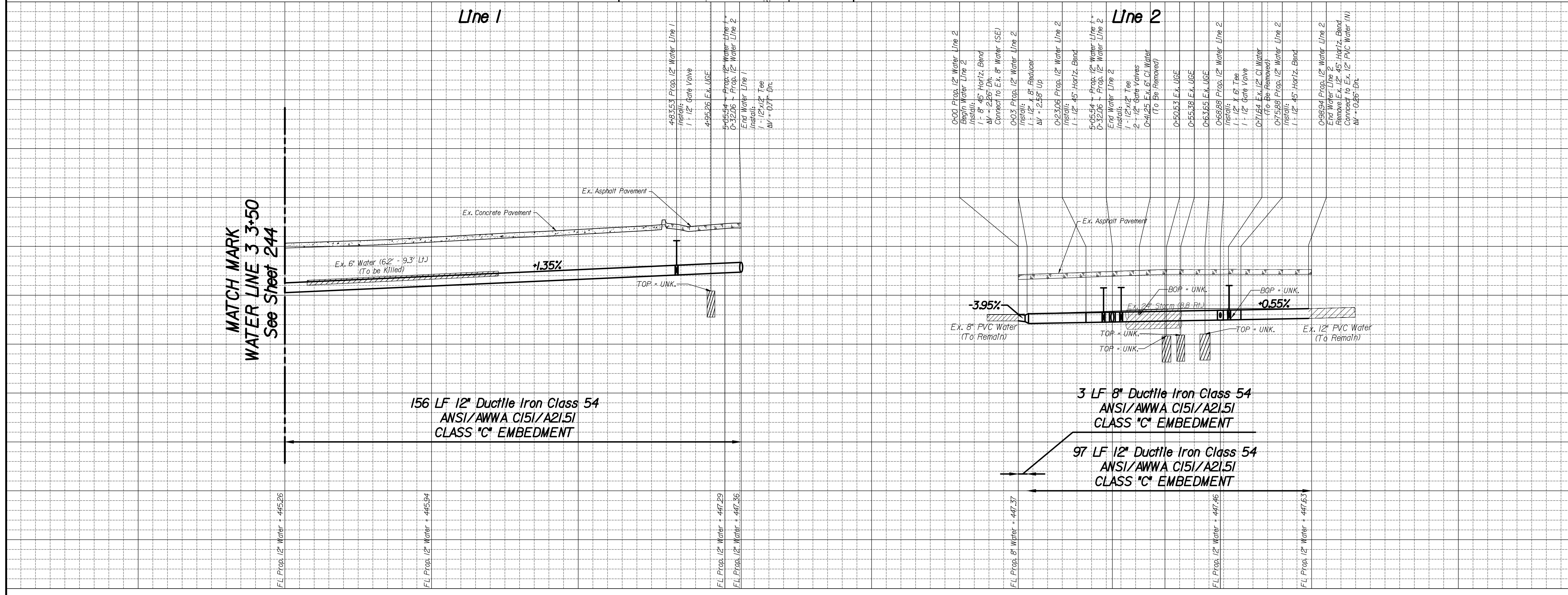


CAUTION ~ TELEPHONE & CABLE!
Underground Telephone And/or Cable Lines In Area
Contact:
AT&T
Tele: 1-800-331-0500
Spectrum
Tele: 1-833-267-6094
Verizon
Tele: 1-800-922-0204
Two Working Days Prior To Construction.

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

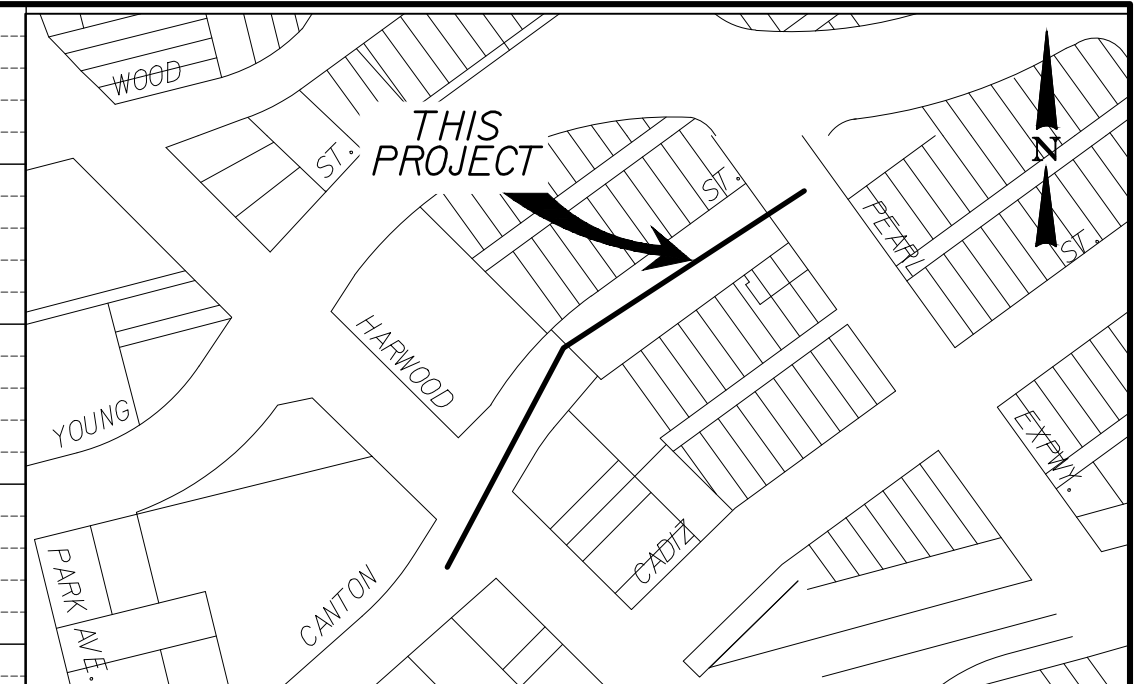
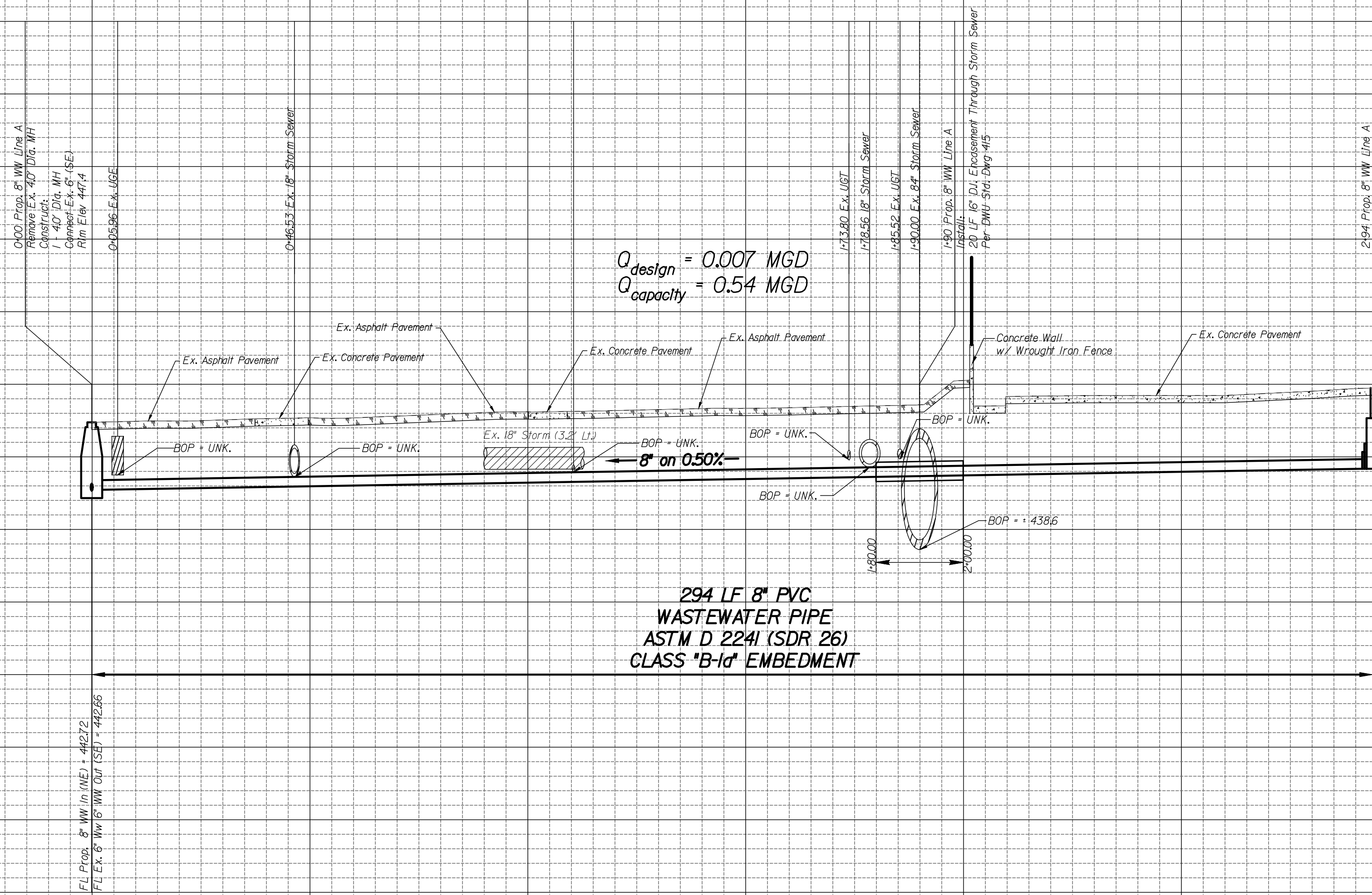
CAUTION ~ POWER!
Overhead & UGE Cables In Area
Contact ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

1. See Sheet 410-0132 SH. 006 for General Notes.
2. The Ground Survey was Performed by PJB Surveying On October 22, 2019. The Design Relies On The Assumptions Provided By The Survey.
3. Contractor Shall Install Temporary Water As Necessary to Maintain Water Service For All Adjacent Properties and Water Lines.
4. Phone Number for Dallas Scottish Rite: (214) 748-9196
5. Phone Number for Rulbal's Plants of Texas: (214) 742-2016



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
BENCHMARK *45-0-2 A City of Dallas Benchmark Is Set on Top of a Concrete Curb at the Southwest Corner of a Storm Sewer Drop Inlet at the Southeast Corner of the Intersection. ELEV = 442.696 MAPSCO 450			
BENCHMARK *45-0-3 A City of Dallas Benchmark Is Set on Top of a Concrete Curb, 20' South of the Centerline of Enroy Street. ELEV = 443.327 MAPSCO 450			
CONTROL POINT *101 "X" CUT N. 6971793.39; E. 2494030.74; ELEV. = 453.027			
Horizontal Scale: 1" = 20'			
Vertical Scale: 1" = 6'			
REFERENCES		<p>The seal appearing on this document was authorized by Jason A. Snyder, P.E. 123328 on May 20, 2020</p>	
WATER 38-26w			
WASTEWATER 38-26s(C)		<p>Kimley»Horn Texas Registration No. F-998</p>	
PID: 5351 CONTRACT NO. 20-239/240			
12" WATER			
ESMT. BTWN. YOUNG ST. AND CADIZ ST.			
HARWOOD ST. TO S. PEARL EXPY.			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
JAS	RHJ	MAY 2020	410
			NUMBER
			1599
			SHEET
			245

Line A



PID: 5351 MAPSCO: 450

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 ~ POWER !
Overhead & UGE Cables In Area
Contact ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

CAUTION ~ TELEPHONE & CABLE!
Underground Telephone And/Or Cable Lines In Area
Contact:
AT&T
Tele: 1-800-331-0500
Spectrum
Tele: 1-833-267-6094
Verizon
Tele: 1-800-922-0204
Two Working Days Prior To Construction.

- See Sheet 410-0132 SH. 006 for General Notes.
- The Ground Survey Was Performed By PJB Surveying On October 22, 2019. The Design Relies On The Assumptions Provided By The Survey.
- Contractor Shall Install Temporary Water As Necessary to Maintain Water Service For All Adjacent Properties and Water Lines.

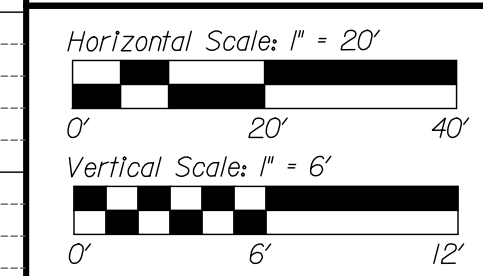
REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK *45-0-2
A City of Dallas Benchmark Is Set on Top of a Concrete Curb at the Southwest Corner of a Storm Sewer Drop Inlet at the Southeast Corner of the Intersection.
ELEV = 442.696 MAPSCO 450

BENCHMARK *45-0-3
A City of Dallas Benchmark Is Set on Top of a Concrete Curb, 20' South of the Centerline of Ervay Street.
ELEV = 443.327 MAPSCO 450

CONTROL POINT *101
"X" Cur
N. 6971793.39; E. 24940307.4; ELEV. = 453.027



The seal appearing on this document was authorized by Jason A. Snyder, P.E. 123328 on May 20, 2020

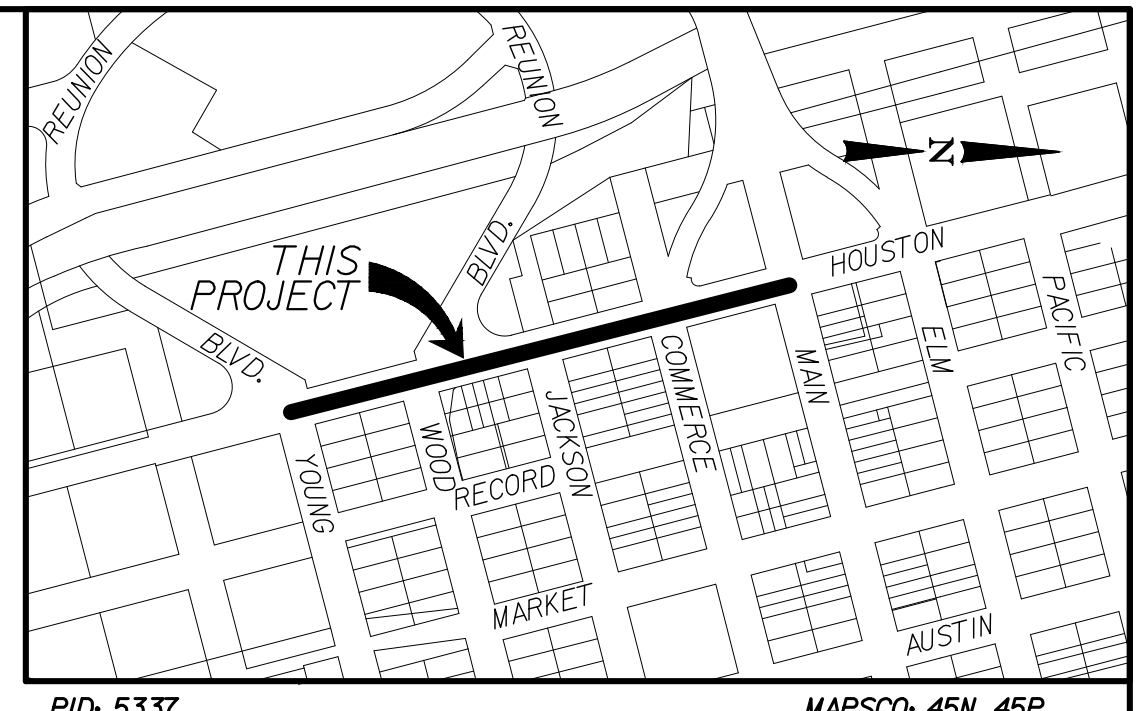
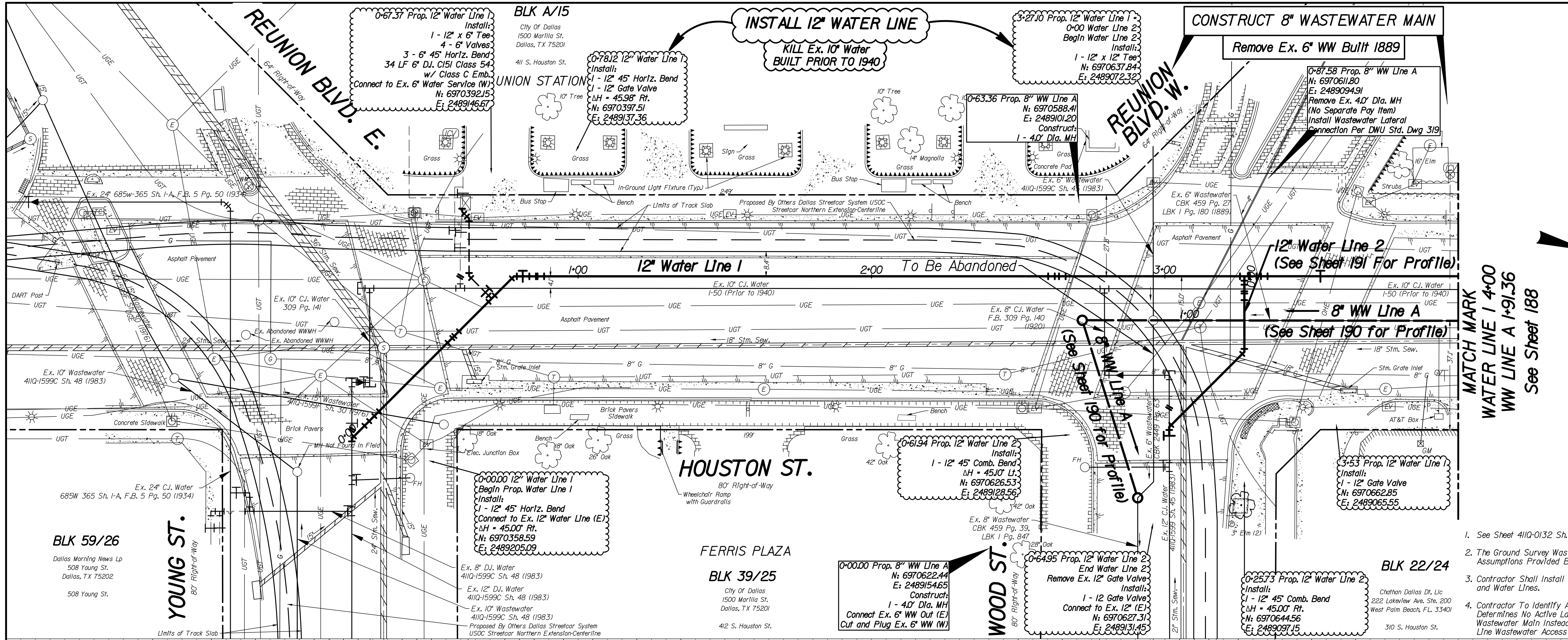
REFERENCES	
WATER	38-26w
WASTEWATER	38-26s(C)

Kimley»Horn
Texas Registration No. F-998

PID: 5351 CONTRACT NO. 20-239/240

12" WATER
ESMT. BTWN. YOUNG ST. AND CADIZ ST.
HARWOOD ST. TO S. PEARL EXPY.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	RHJ	MAY 2020	410	1599	246

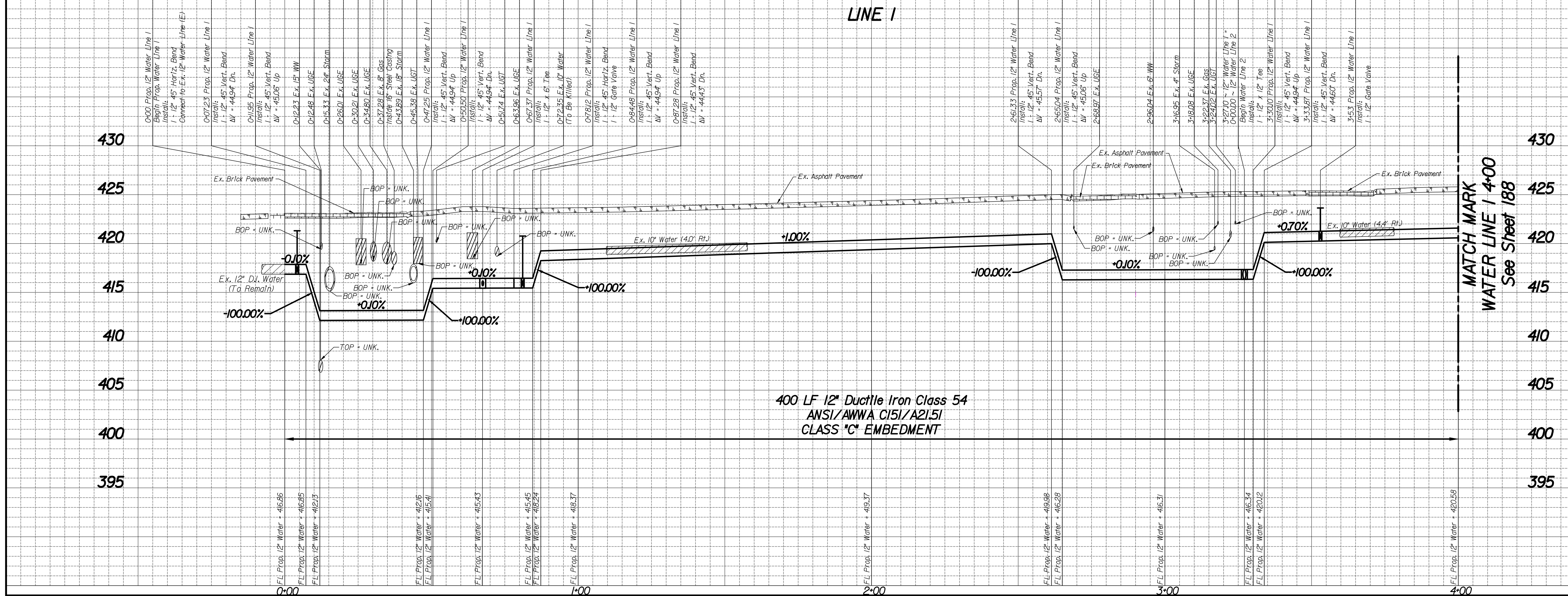


CAUTION ~ GAS !
Underground Gas Main In Area
Contact **ATMOS Energy Corp.** Two Working Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

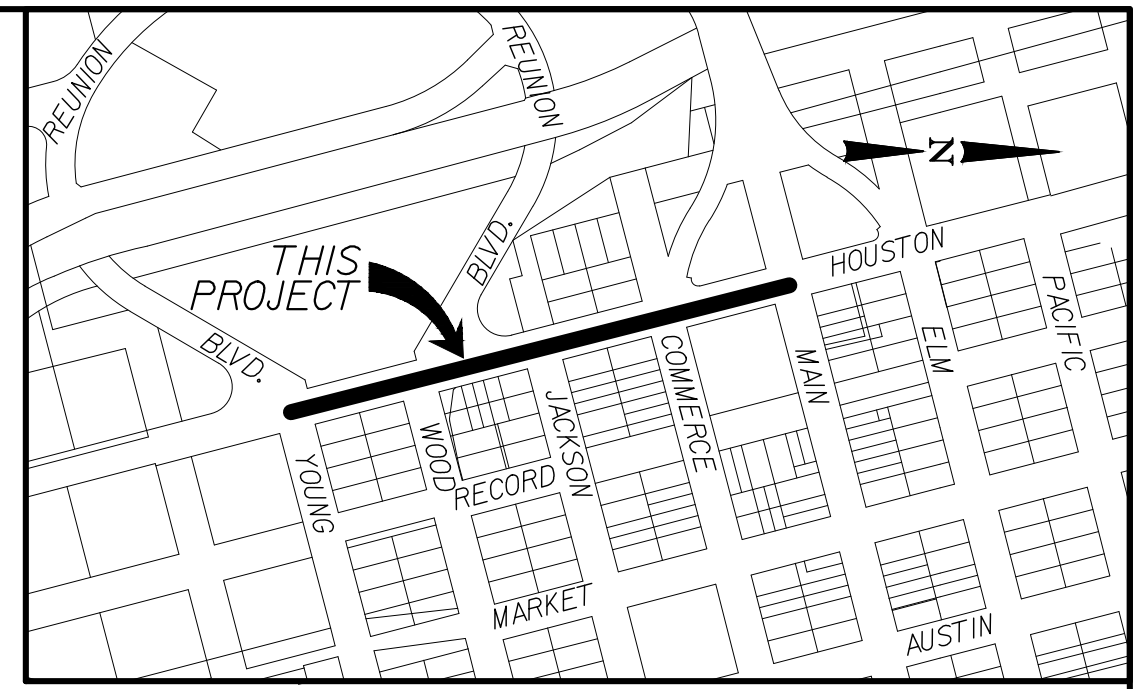
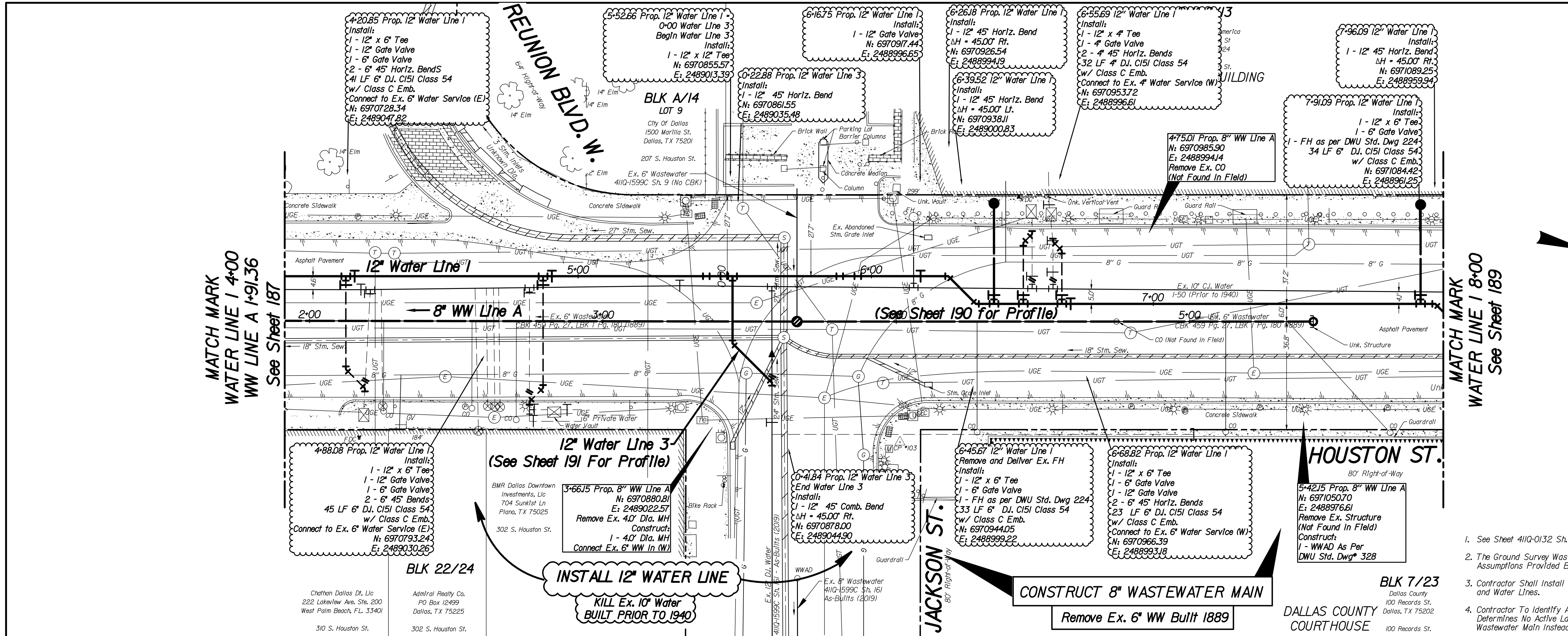
CAUTION ~ POWER !
Overhead & UGE Cables In Area
Contact **ONCOR** Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

CAUTION ~ TELEPHONE & CABLE!
Underground Telephone And/or Cable Lines In Area
Contact:
AT&T Tele: 1-800-331-0500 CenturyLink Tele: 1-866-642-0444
Spectrum Tele: 1-833-267-6094 FiberLight Tele: 1-800-672-0181
Verizon Tele: 1-800-922-0204 ZAYO Tele: 1-866-364-6033
Two Working Days Prior To Construction.

MATCH MARK
WATER LINE I 4-00
WW LINE A 1-91.36
See Sheet 188



REV NO.	DATE	DESCRIPTION	BY
REVISIONS			
BENCHMARKS & CONTROL POINTS			
BENCHMARK *45-Q-3 A City of Dallas Benchmark Is Set on Top of a Concrete Curb 20' South of the Centerline of Ervay St. ELEV = 443.33 MAPSCO 450			
BENCHMARK *45-P-1 Square Cut on Concrete Curb In the Center of a Storm Sewer Inlet on the West Curb of Griffen St. and 15' South of Property Line of Young St. ELEV = 418.81 MAPSCO 45P			
CONTROL POINT *104 Square Cut with "X" N. 6970254.33; E. 2489166.53; ELEV. = 422.70			
Horizontal Scale: 1" = 20'			
Vertical Scale: 1" = 6'			
REFERENCES			
WATER 38-24w & 39-24w			
WASTEWATER 38-26s & 39-26s			
Kimley»Horn <small>Texas Registration No. F-938</small>			
PID: 5337		CONTRACT NO. 20-239/240	
12" WATER & 8" WASTEWATER			
HOUSTON STREET			
YOUNG ST. TO MAIN ST.			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE
JAS	RHJ	MAY 2020	411Q
			NUMBER
			1599C
			SHEET
			187



MATCH MARK
WATER LINE I 4-00
WW LINE A I-91.36
See Sheet 187

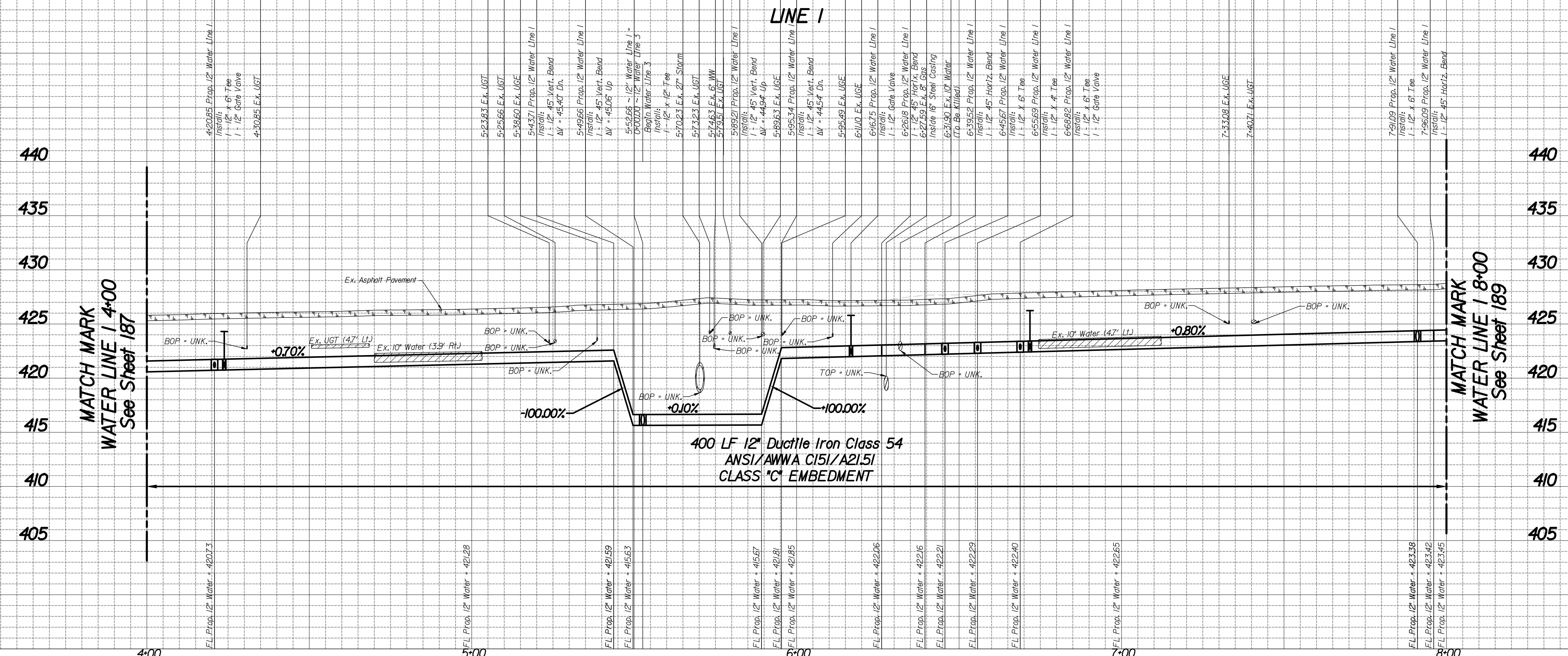
MATCH MARK
WATER LINE I 8-00
See Sheet 189

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 ~ POWER !
Overhead & UGE Cables In Area
Contact **ONCOR** Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

CAUTION ~ TELEPHONE & CABLE!
Underground Telephone And/Or Cable Lines In Area
Contact:
AT&T
Tele: 1-800-331-0500
Spectrum
Tele: 1-833-267-6094
Verizon
Tele: 1-800-922-0204
CenturyLink
Tele: 1-866-642-0444
FiberLight
Tele: 1-800-672-0181
ZAYO
Tele: 1-866-364-6033

- See Sheet 410-0132 Sh. 006 For General Notes.
- The Ground Survey Was Performed By CRIADO & Associates On November 4, 2019. The Design Relies On The Assumptions Provided By The Survey.
- Contractor Shall Install Temporary Water As Necessary To Maintain Water Service For All Adjacent Properties and Water Lines.
- Contractor To Identify All Active Wastewater Service Laterals For Wastewater Lines A And B. If Contractor Determines No Active Laterals, Contact DNU And The Engineer To Determine Feasibility Of Abandoning The Wastewater Main Instead Of Replacing In Same Trench.



REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK *45-Q-3
A City of Dallas Benchmark Is Set on Top of a Concrete Curb 20' South of the Centerline of Ervay St.
ELEV = 443.33 MAPSCO 450

BENCHMARK *45-P-1
Square Cut on Concrete Curb In the Center of a Storm Sewer Inlet on the West Curb of Griffen St. and 15' South of Property Line of Young St.
ELEV = 418.81 MAPSCO 45P

CONTROL POINT *103
"X" CUT
N. 6970925.41; E. 2489053.06; ELEV. = 427.61

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

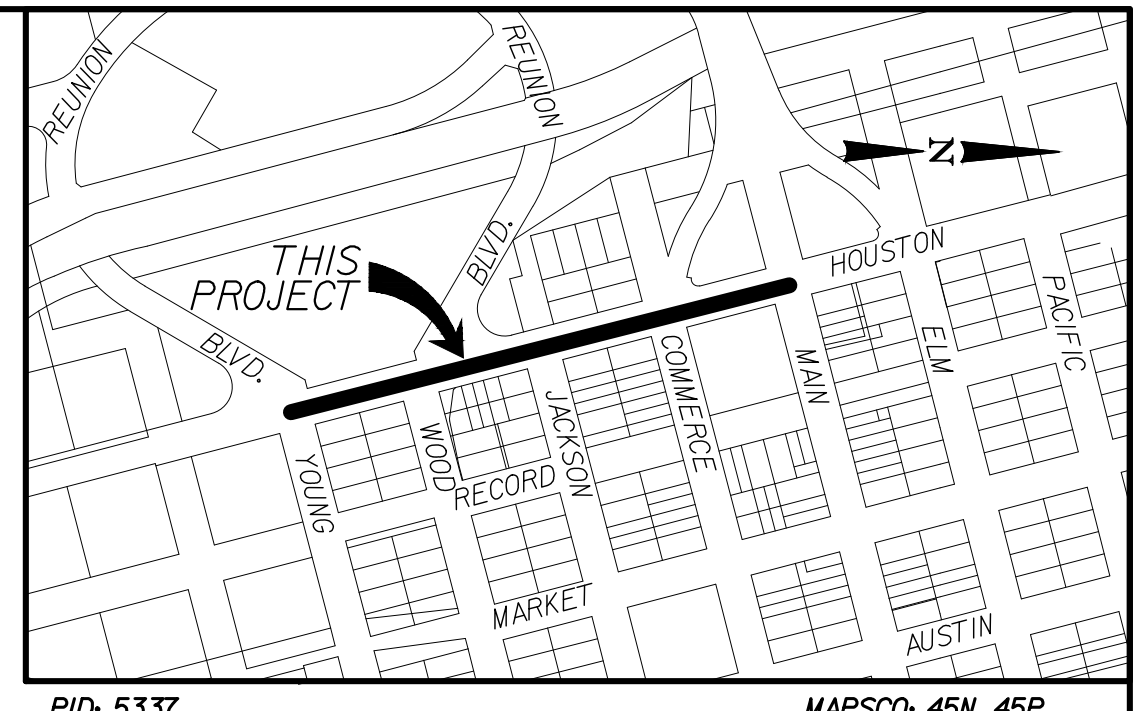
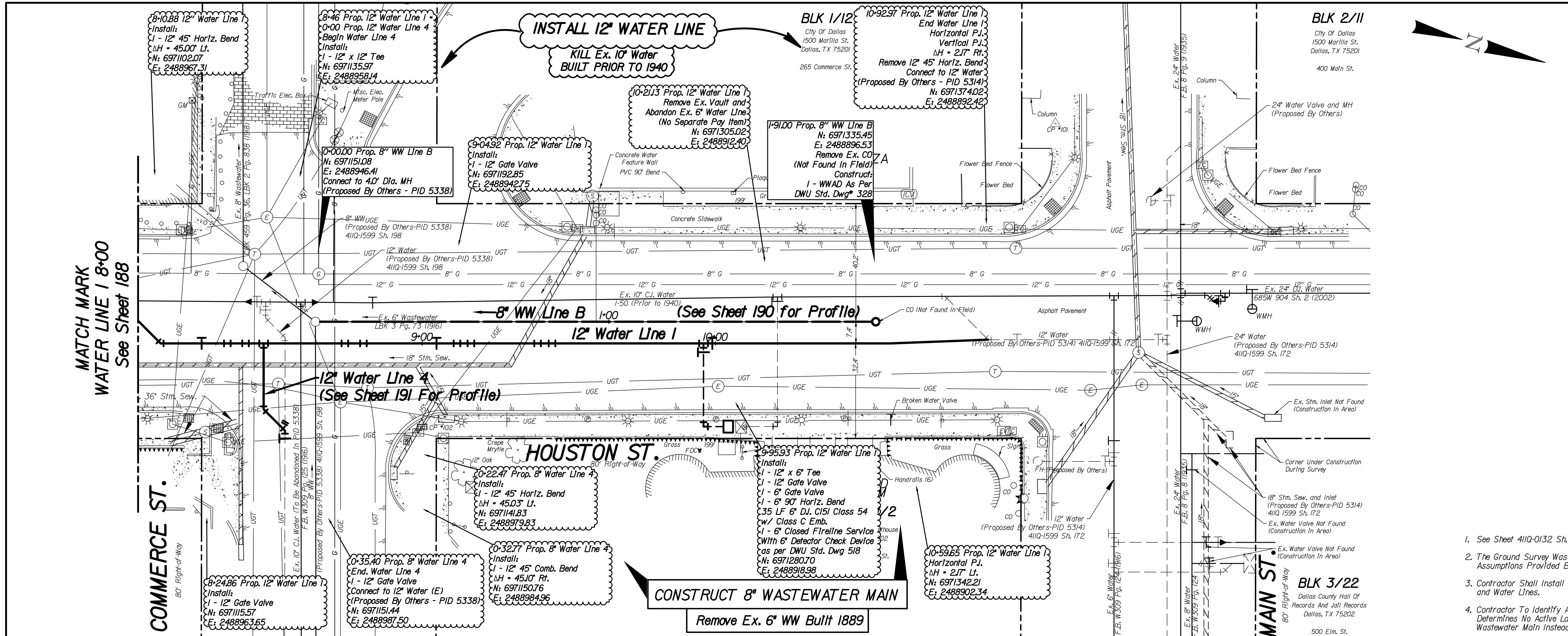
REFERENCES
WATER
38-24w & 39-24w
WASTEWATER
38-26s & 39-26s

Kimley»Horn
Texas Registration No. F-938

PID: 5337 CONTRACT NO. 20-239/240

**12" WATER & 8" WASTEWATER
HOUSTON STREET
YOUNG ST. TO MAIN ST.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	RHJ	MAY 2020	411Q	1599C	188

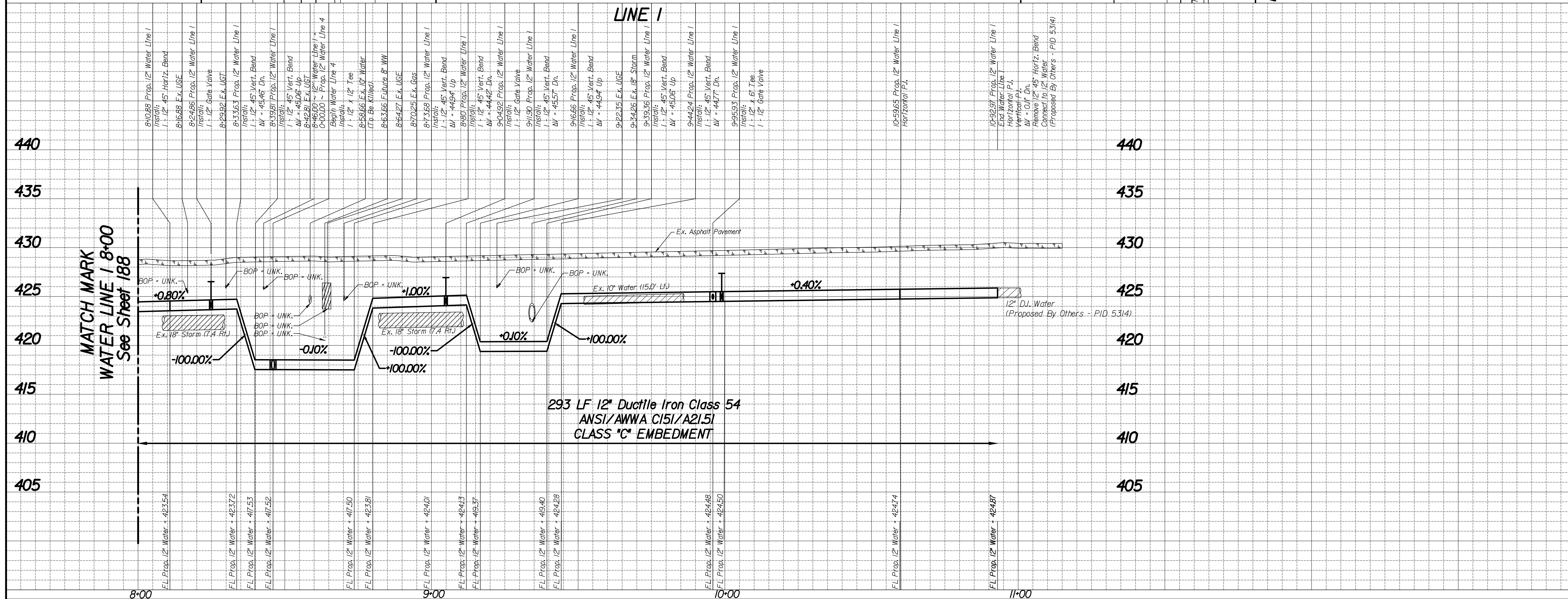


CAUTION ~ GAS !
Underground Gas Main In Area
Contact **ATMOS Energy Corp.** Two Working Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

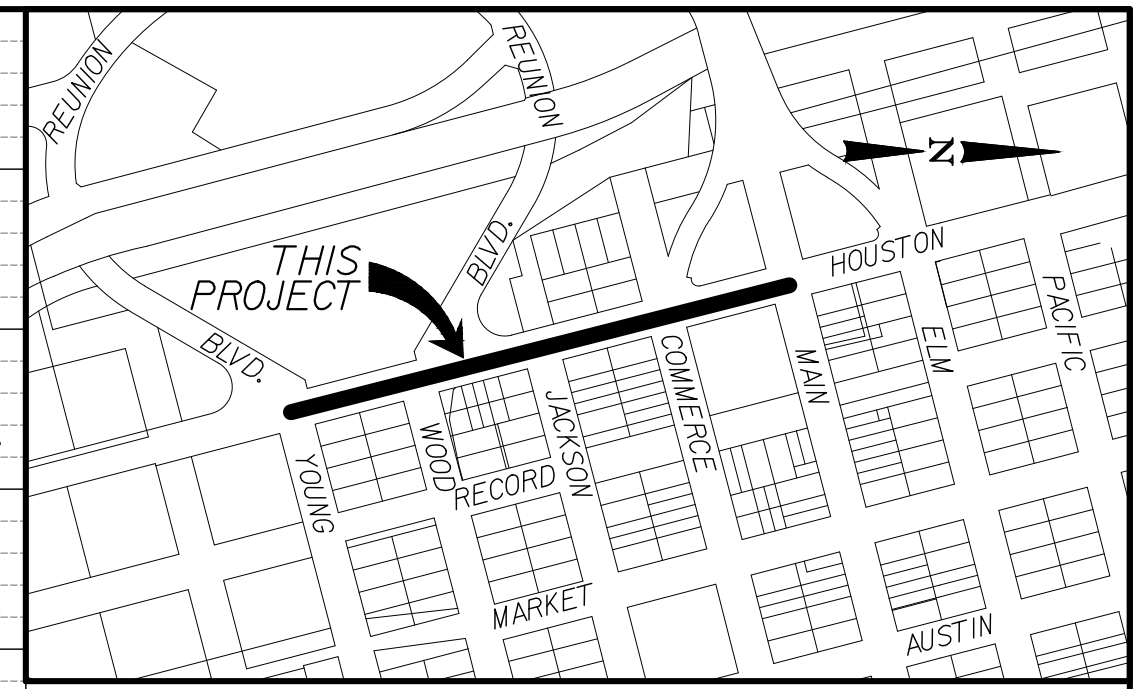
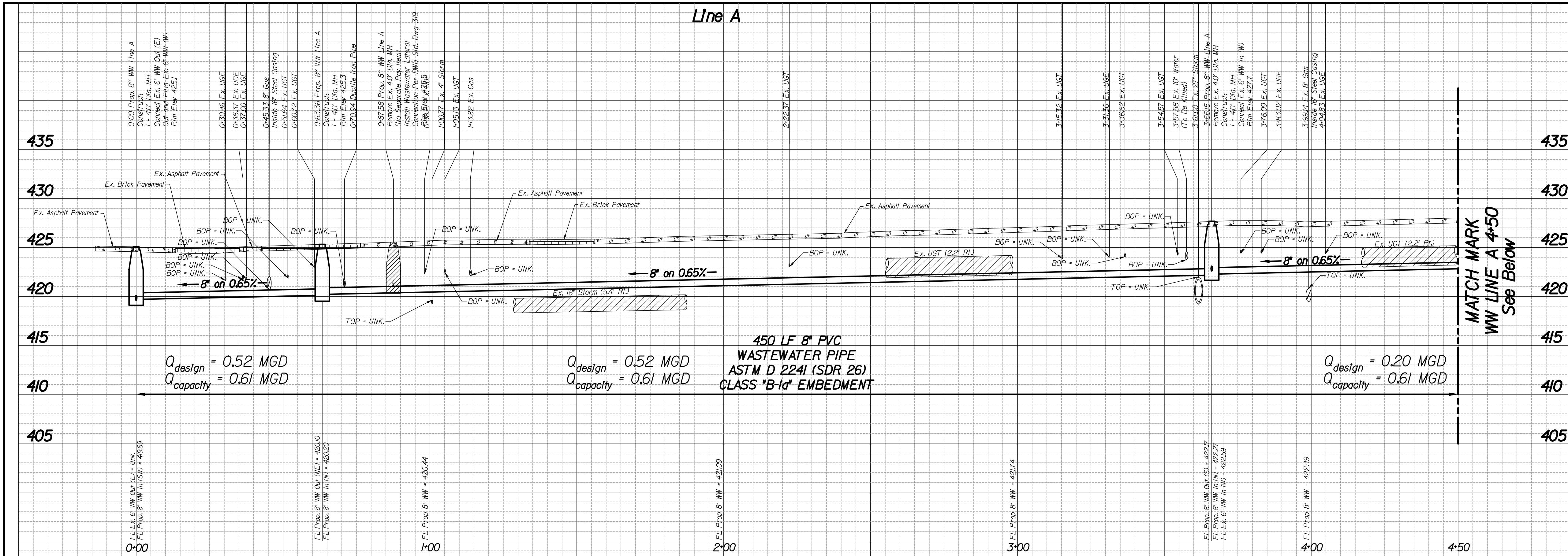
CAUTION ~ POWER !
Overhead & UGE Cables In Area
Contact **ONCOR** Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

CAUTION ~ TELEPHONE & CABLE!
Underground Telephone And/Or Cable Lines In Area
Contact:
AT&T
Tele: 1-800-331-0500
Spectrum
Tele: 1-833-267-6094
Verizon
Tele: 1-800-922-0204
CenturyLink
Tele: 1-866-642-0444
FiberLight
Tele: 1-800-672-0181
ZAYO
Tele: 1-866-364-6033

- See Sheet 4110-0132 Sh. 006 For General Notes.
- The Ground Survey Was Performed By CRIADO & Associates On November 4, 2019. The Design Relies On The Assumptions Provided By The Survey.
- Contractor Shall Install Temporary Water As Necessary To Maintain Water Service For All Adjacent Properties and Water Lines.
- Contractor To Identify All Active Wastewater Service Laterals For Wastewater Lines A And B. If Contractor Determines No Active Laterals, Contact DMU And The Engineer To Determine Feasibility Of Abandoning The Wastewater Main Instead Of Replacing In Same Trench.



REVISIONS				
REV NO.	DATE	DESCRIPTION	BY	
BENCHMARKS & CONTROL POINTS				
BENCHMARK *45-Q-3 A City of Dallas Benchmark Is Set on Top of a Concrete Curb 20' South of the Centerline of Ervay St. ELEV = 443.33 MAPSCO 450				
BENCHMARK *45-P-1 Square Cut on Concrete Curb In the Center of a Storm Sewer Inlet on the West Curb of Griffen St. and 15' South of Property Line of Young St. ELEV = 418.81 MAPSCO 45P				
CONTROL POINT *101 "X" Cut N. 6971376.93; E. 2488815.36; ELEV. = 428.87				
CONTROL POINT *102 Square Cut with "X" N. 6971200.57; E. 2488968.26; ELEV. = 428.82				
Horizontal Scale: 1" = 20'				
Vertical Scale: 1" = 6'				
REFERENCES				
WATER 38-24w & 39-24w				
WASTEWATER 38-26s & 39-26s				
Kimley»Horn <small>Texas Registration No. F-988</small>				
PID: 5337		CONTRACT NO. 20-239/240		
12" WATER & 8" WASTEWATER				
HOUSTON STREET				
YOUNG ST. TO MAIN ST.				
DALLAS WATER UTILITIES				
CITY OF DALLAS, TEXAS				
DESIGN	DRAWN	DATE	FILE	NUMBER
JAS	RHJ	MAY 2020	411Q	1599C
				SHEET
				189



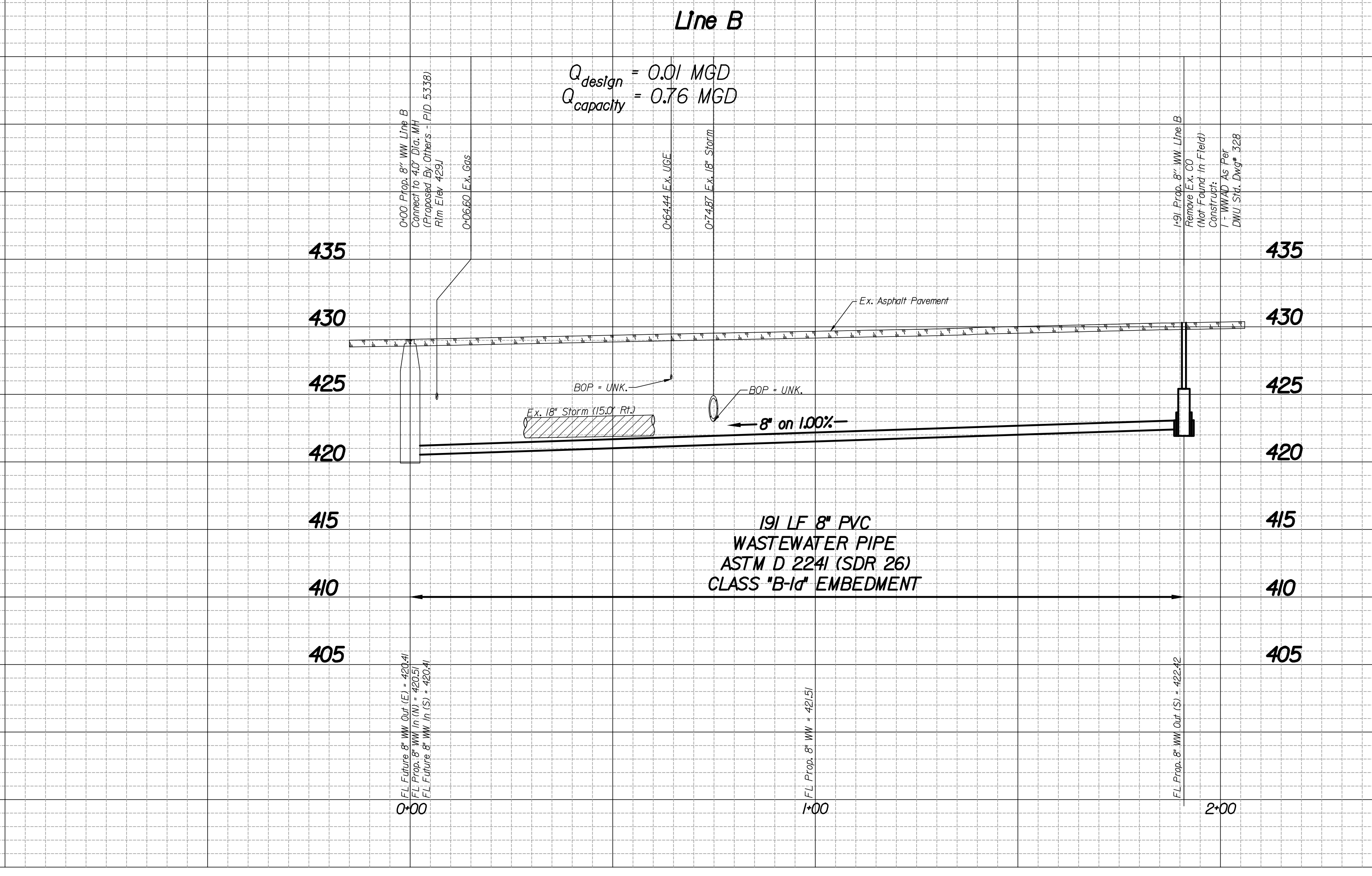
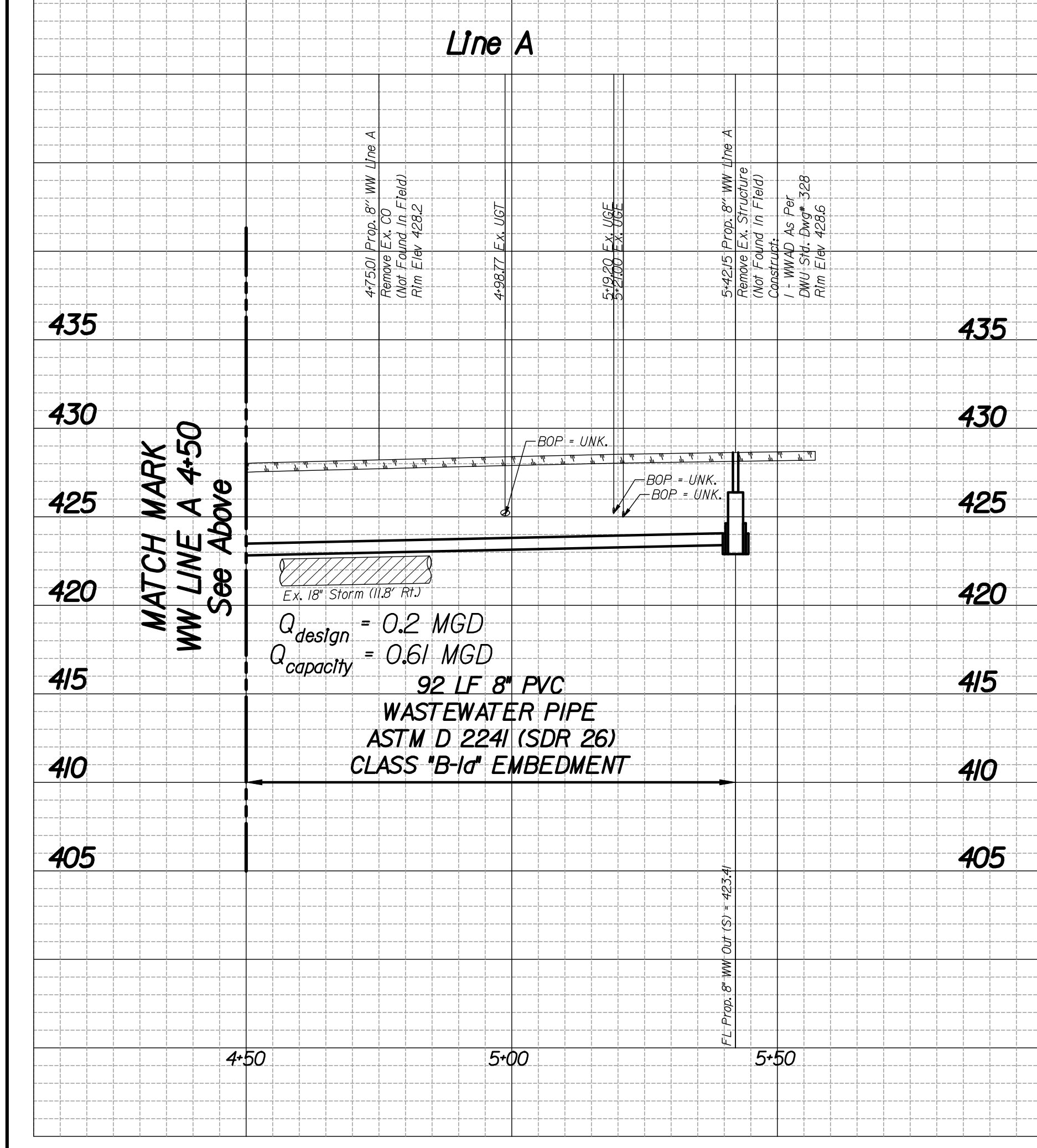
PID: 5337 MAPSCO: 45N, 45P

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 ~ POWER !
Overhead & UGE Cables In Area
Contact ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

CAUTION ~ TELEPHONE & CABLE!
Underground Telephone And/or Cable Lines In Area
Contact:
AT&T Tele: 1-800-331-0500 CenturyLink Tele: 1-866-642-0444
Spectrum Tele: 1-833-267-6094 FiberLight Tele: 1-800-672-0181
Verizon Tele: 1-800-922-0204 ZAYO Tele: 1-866-364-6033
Two Working Days Prior To Construction.

- See Sheet 411Q-0132 SH. 006 for General Notes.
- The Ground Survey Was Performed By CRIADO & Associates On November 4, 2019. The Design Relies On The Assumptions Provided By The Survey.
- Contractor Shall Install Temporary Water As Necessary to Maintain Water Service For All Adjacent Properties and Water Lines.



REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

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

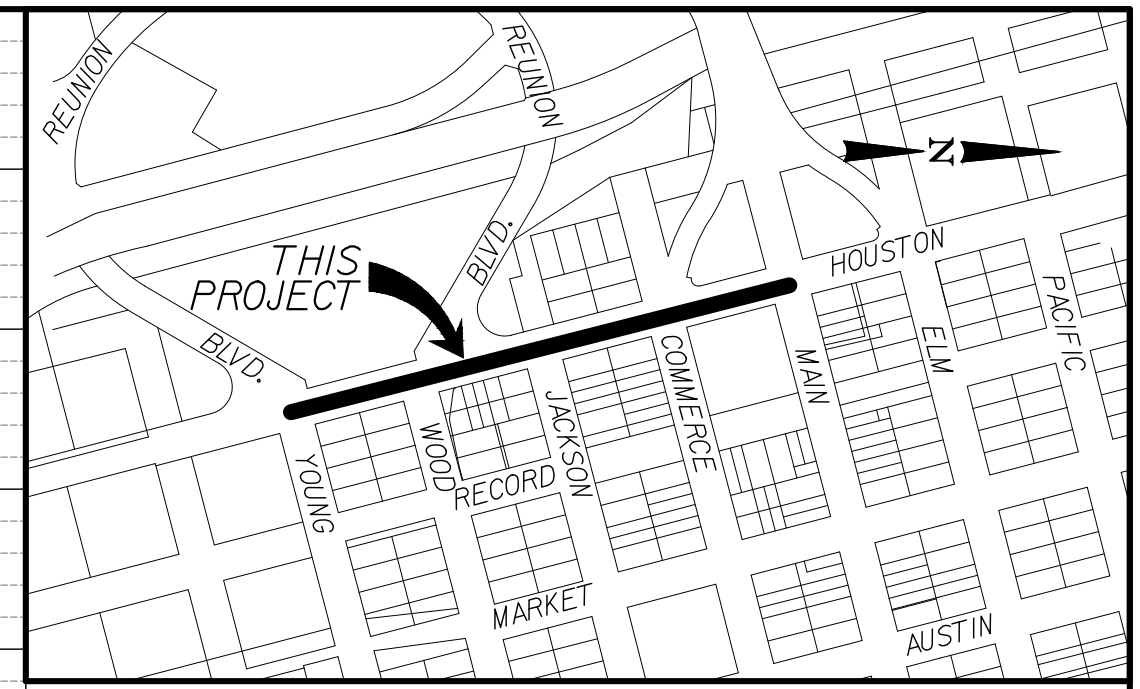
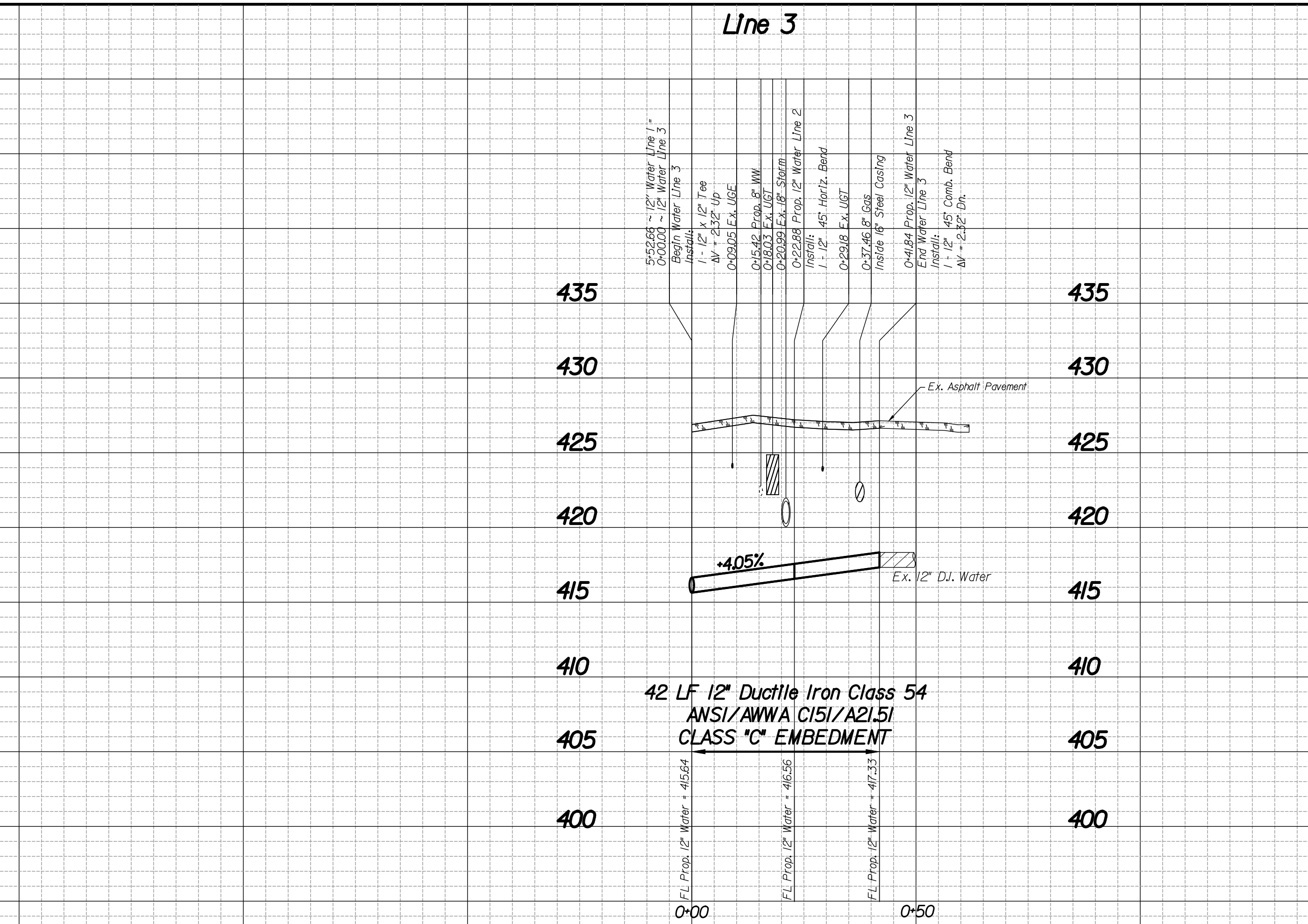
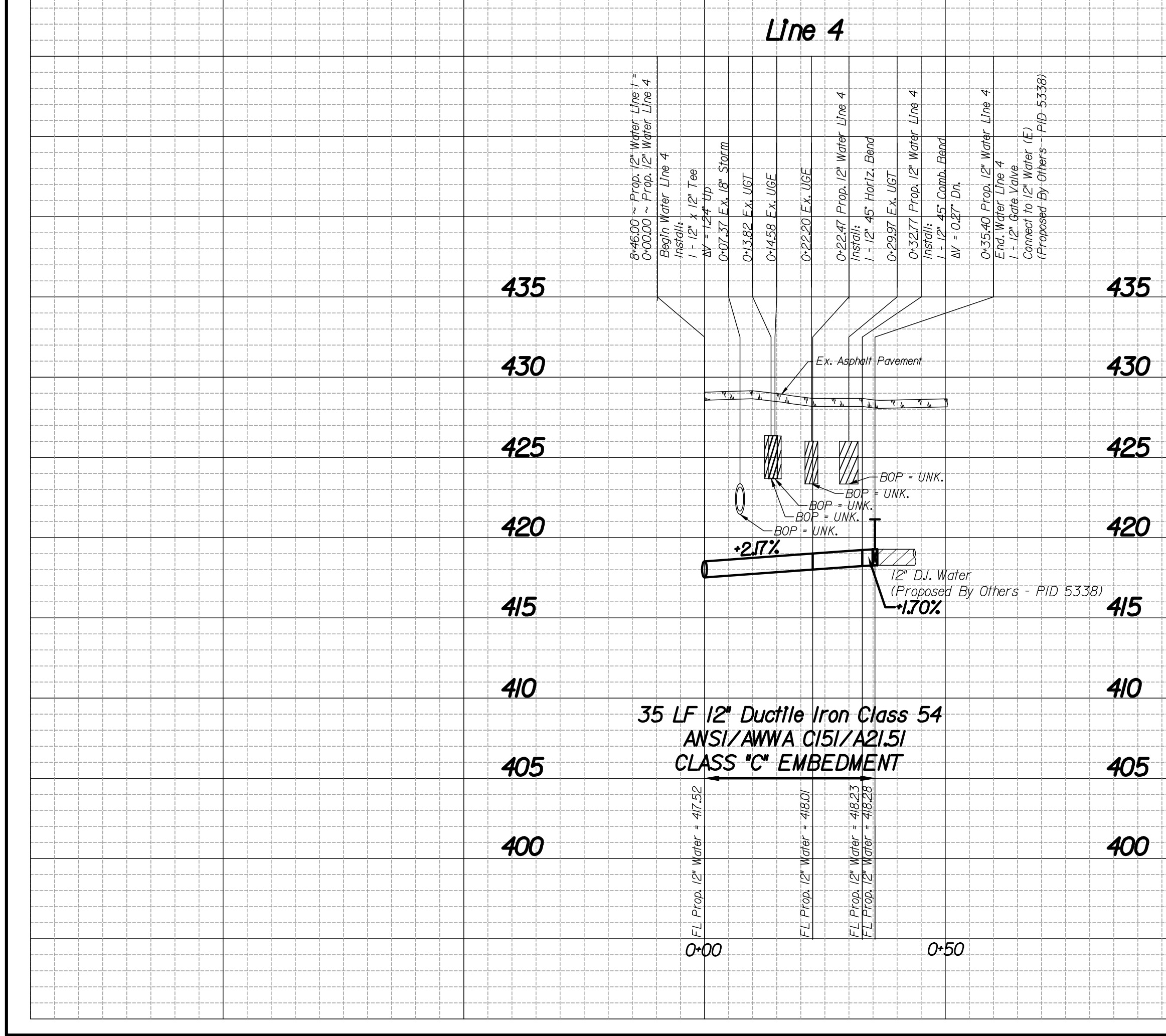
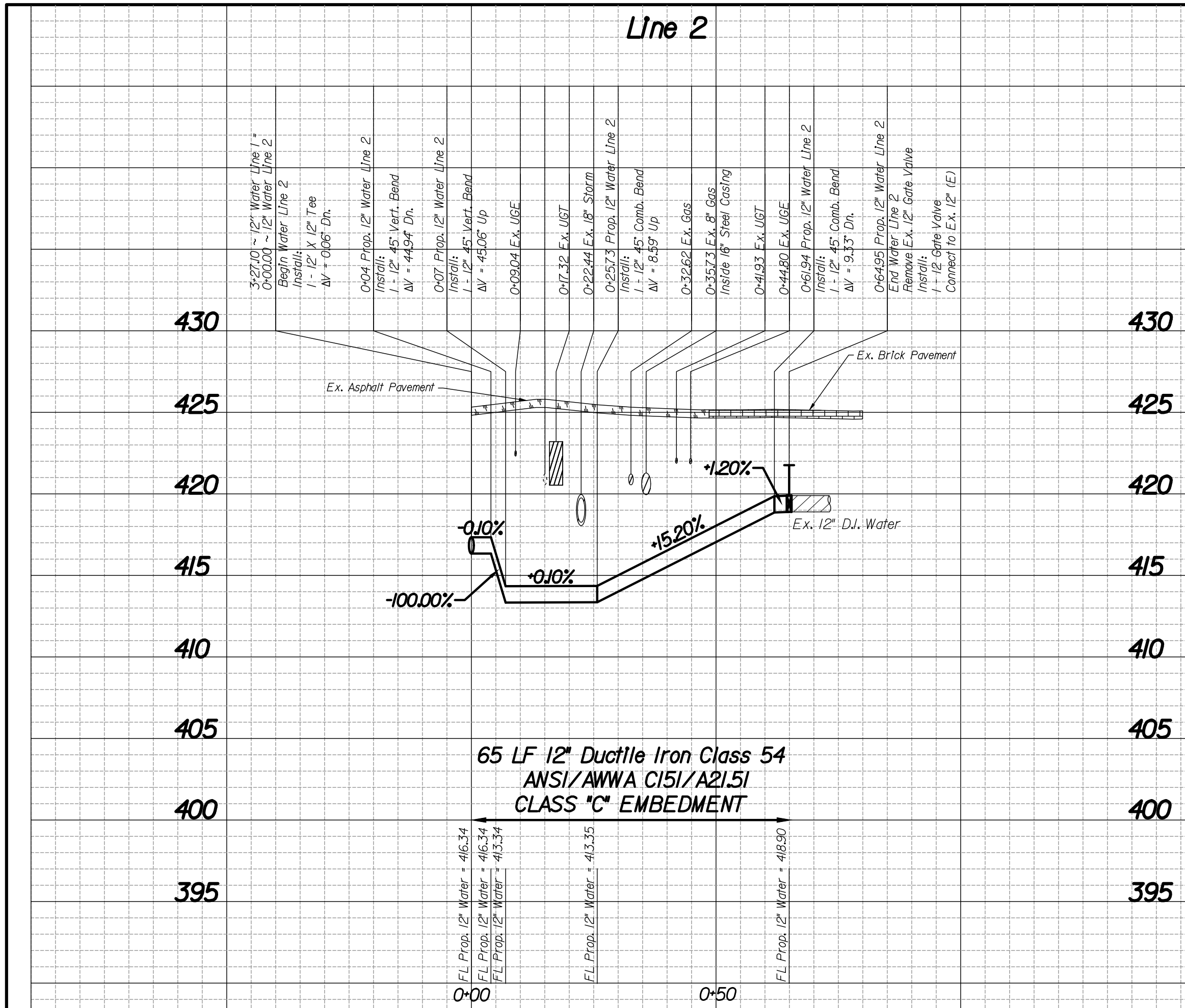
REFERENCES
WATER 38-24w & 39-24w
WASTEWATER 38-26s & 39-26s

Kimley»Horn
Professional Engineer
The seal appearing on this document was authorized by Jason A. Snyder, P.E. 123328 on May 20, 2020

PID: 5337 CONTRACT NO. 20-239/240

12" WATER & 8" WASTEWATER
HOUSTON STREET
YOUNG ST. TO MAIN ST.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	RHJ	MAY 2020	411Q	1599C	190



PID: 5337 MAPSCO: 45N, 45P

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 ~ POWER !
Overhead & UGE Cables In Area
Contact ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

CAUTION ~ TELEPHONE & CABLE!
Underground Telephone And/Or Cable Lines In Area
Contact:
AT&T CenturyLink
Tele: 1-800-331-0500 Tele: 1-866-642-0444
Spectrum FiberLight
Tele: 1-833-267-6094 Tele: 1-800-672-0181
Verizon ZAYO
Tele: 1-800-922-0204 Tele: 1-866-364-6033
Two Working Days Prior To Construction.

- See Sheet 411Q-0132 SH. 006 for General Notes.
- The Ground Survey Was Performed By CRIADO & Associates On November 4, 2019. The Design Relies On The Assumptions Provided By The Survey.
- Contractor Shall Install Temporary Water As Necessary to Maintain Water Service For All Adjacent Properties and Water Lines.

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
△			
△			

BENCHMARKS & CONTROL POINTS

Horizontal Scale: 1" = 20'
 0' 20' 40'
 Vertical Scale: 1" = 6'
 0' 6' 12'

REFERENCES
WATER
 38-24w & 39-24w
WASTEWATER
 38-26s & 39-26s

The seal appearing on this document was authorized by Jason A. Snyder, P.E. 123328 on May 20, 2020

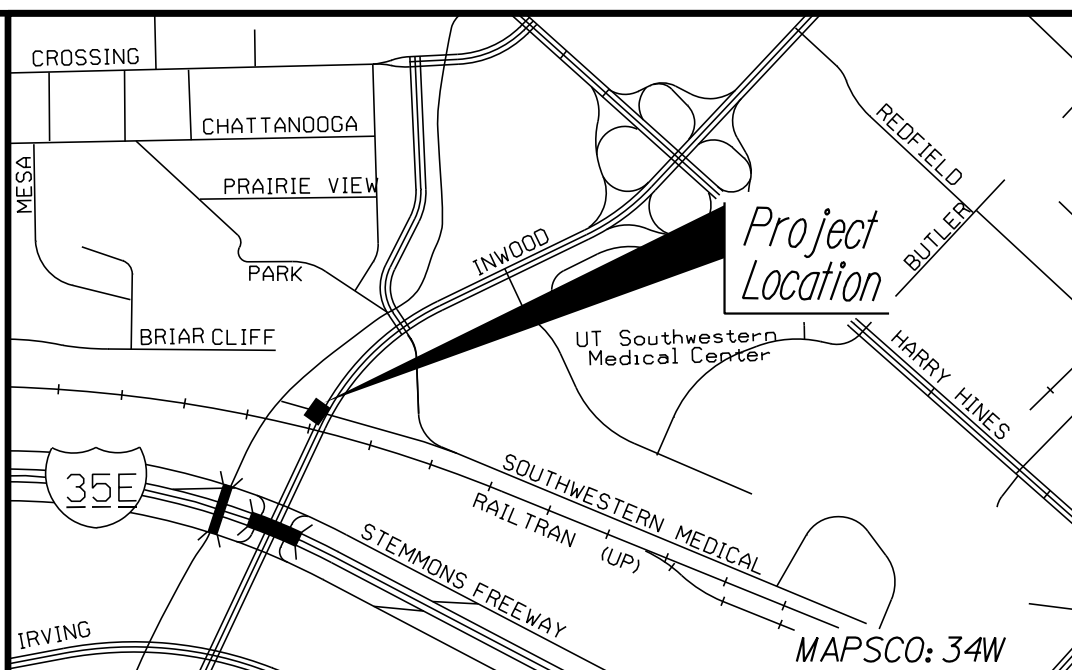
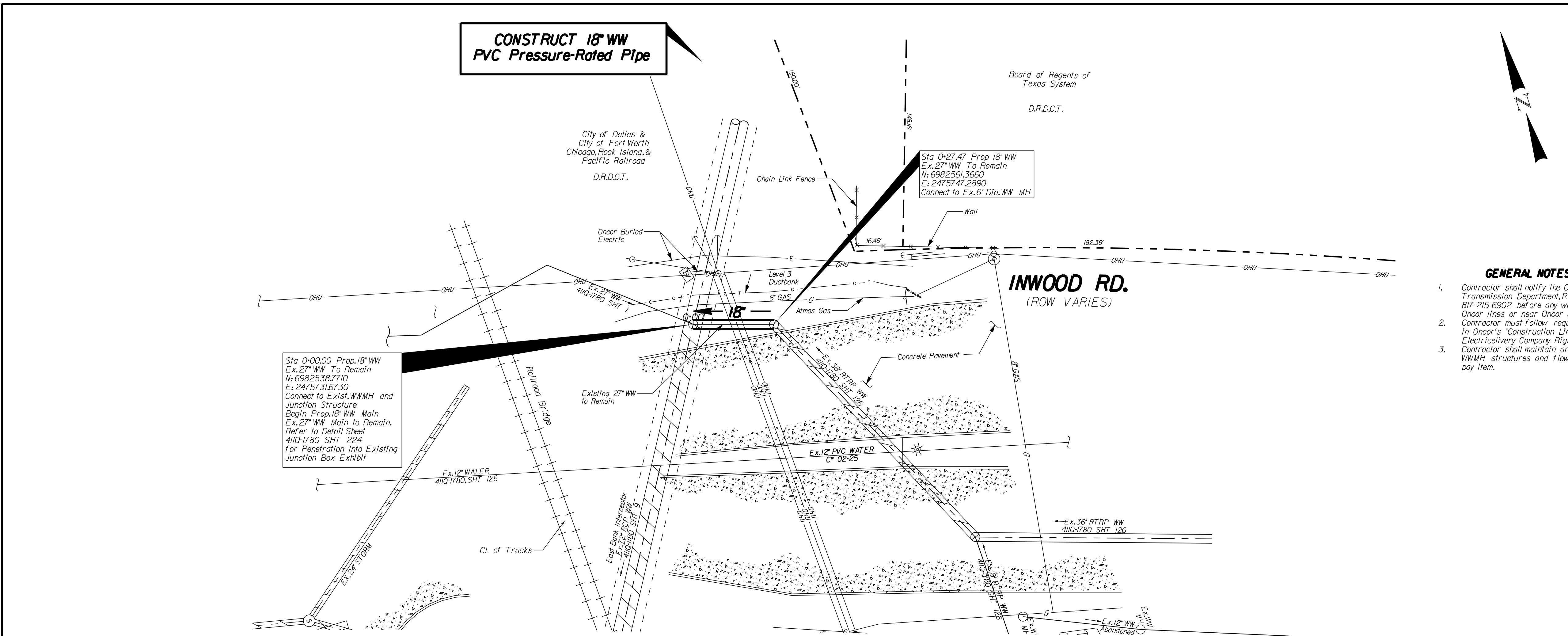
Kimley»Horn
 Texas Registration No. F-988

PID: 5337 CONTRACT NO. 20-239/240

12" WATER & 8" WASTEWATER
HOUSTON STREET
YOUNG ST. TO MAIN ST.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	RHJ	MAY 2020	411Q	1599C	191

DATE: 5/20/2020 TIME: 3:46:40 PM PLOT DRIVER: HCL-FULL-REV-PDF.plt
 FILE: 2055WWD1.dwg PLOT TABLE: 1025PLOT.tbl
 SCALE: 1/2"=10' USER: dking User: dking Path: \\hcn\projects\2055 WWD\2055 WWD.dwg



- GENERAL NOTES**
- Contractor shall notify the Onco Dallas Region Transmission Department, Ricky Threadgill 817-215-6902 before any work is done under Onco lines or near Onco structures. Contractor must follow requirements as stated in Onco's "Construction Limitations on Onco Electric Delivery Company Right of Way Document. Contractor shall maintain and protect the existing WWMH structures and flowlines. 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

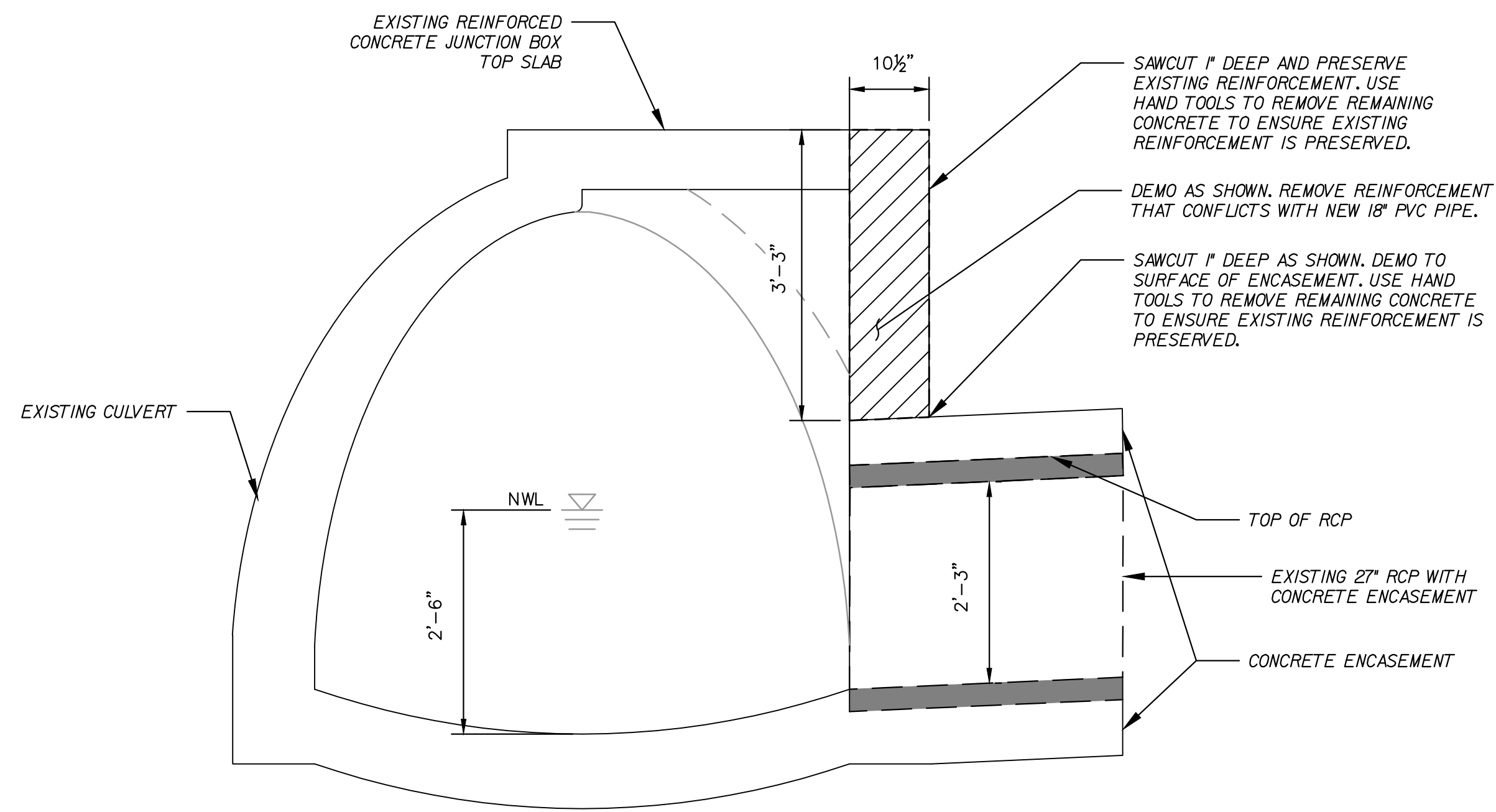
CAUTION ~ GAS !
 Underground Gas Main In Area
 Contact ATMOS Energy. Two Working Days Prior To Construction.
 Tele: 1-800-344-8377 / 1-800-545-6005

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

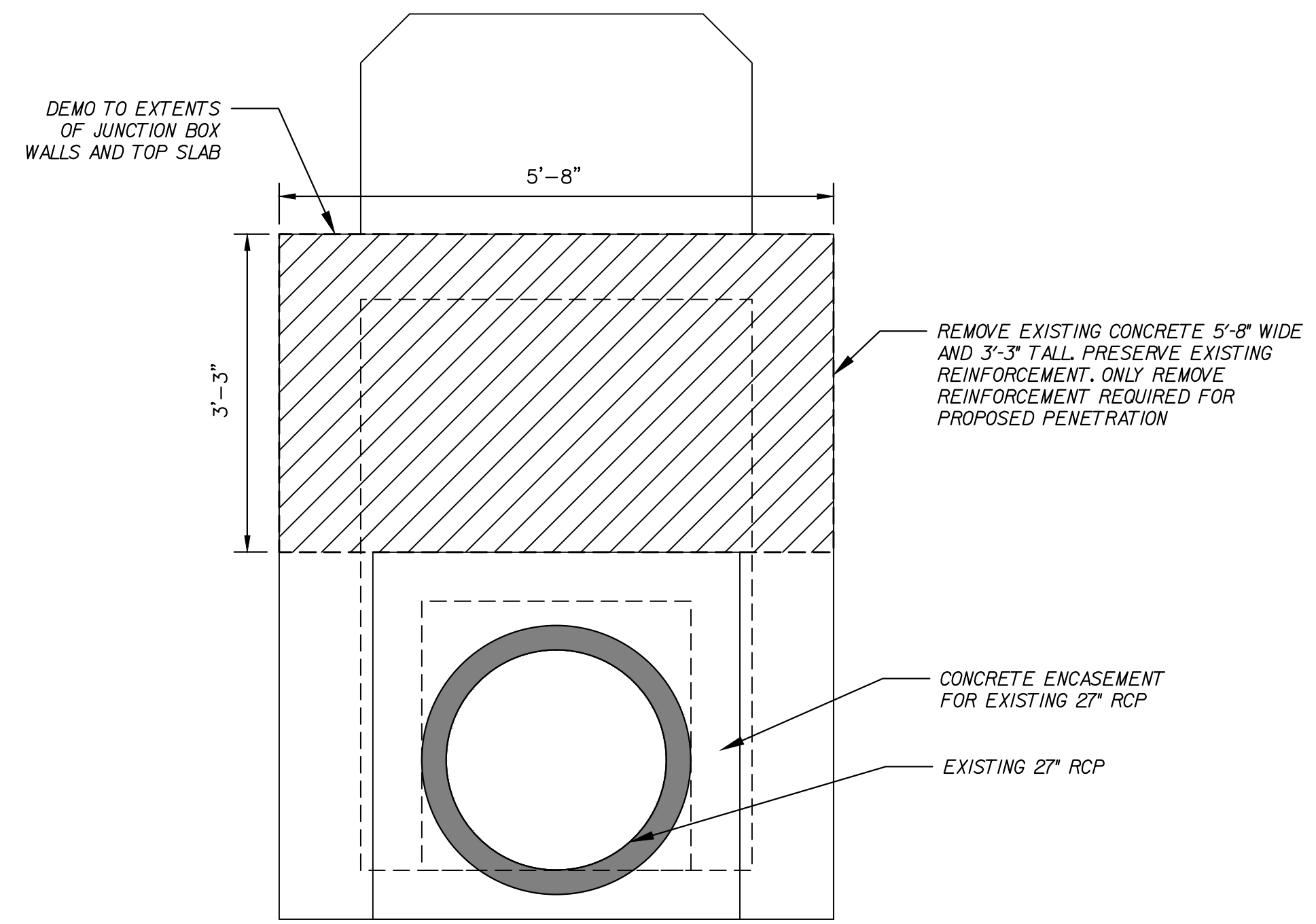
CAUTION ~ POWER !
 Underground Electrical Cables In Area
 Contact TXU Two Working Days Prior To Construction.
 Tele: 1-800-344-8377

REV NO.	DATE	DESCRIPTION	BY
BENCHMARKS & CONTROL POINTS			
BENCHMARK *1			
815.34-S-3 Harry Hines - Treadway Street 10/2/2007 A Standard Water Department Bench Mark set on concrete curb of Storm Sewer Drop inlet Northwest corner of the Intersection. N 6.586241304' E 2.475453783' Elev. 455.650' LAT 32° 49' 19.88814" N LONG 96° 50' 58.45812" W			
BENCHMARK *2			
819.34-T-3 Inwood Road - Redfield Avenue 10/3/2007 A Standard Water Department Bench Mark set on concrete curb of Storm Sewer Drop inlet on the Southeast corner of the Intersection. N 6.584449460' E 2.471256970' Elev. 442.880' LAT 32° 49' 37.0022" N LONG 96° 50' 25.83192" W			
CONTROL POINT			
Point	Northing	Easting	Elev. Description
1050	6982399.9300	2475806.6550	404.58 60ds
1051	6982357.6650	2475692.7110	399.49 xcs
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Horizontal Scale: 1" = 20'</p> <p>Vertical Scale: 1" = 6'</p> </div> <div style="width: 45%; text-align: right;"> <p>HAYDEN CONSULTANTS, INC. F-00540 Daphne D. King</p> </div> </div>			
<p>REFERENCES</p> <p>WATER 32-20W</p> <p>WASTEWATER 32-20S</p>			
HAYDEN CONSULTANTS, INC.		6648 MILITARY ST., SUITE 500 DALLAS, TEXAS 75206 Ph. 214.753.8100 Firm Registration No. 00840 www.HaydenConsultants.com	
5987		CONTRACT NO. 20-239/240	
18" WASTEWATER LINE			
INWOOD ROAD			
AT TRE RAILROAD			
DALLAS WATER UTILITIES			
CITY OF DALLAS, TEXAS			
DESIGN	DRAWN	DATE	FILE NUMBER SHEET
HCI	HCI	MAY 2020	4110 1780 223

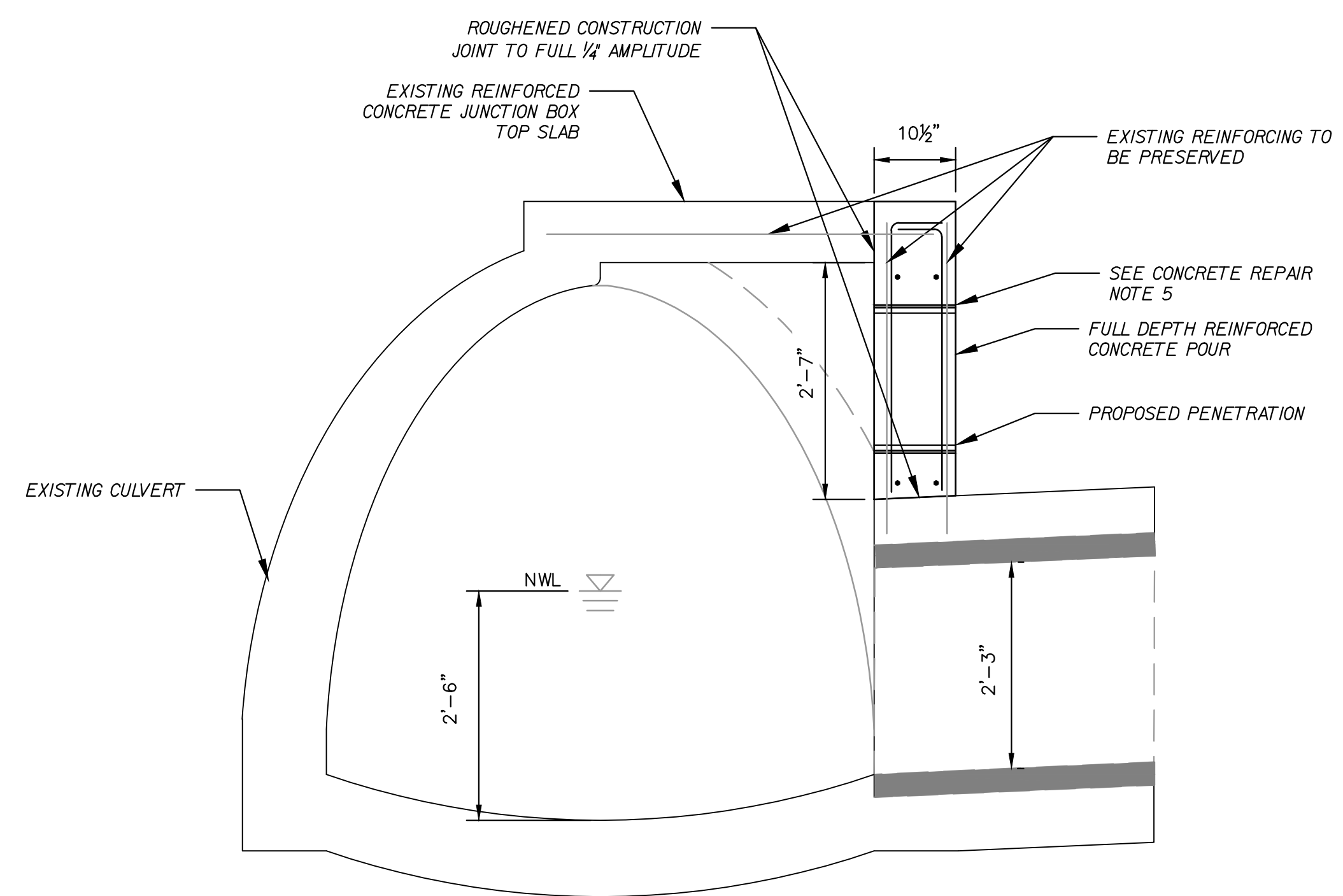
27 LF 18" PVC PRESSURE RATED WASTEWATER PIPE
AWWA C900 (DR 25) Min. Pressure 165 PSI
Type "B-F" Embedment



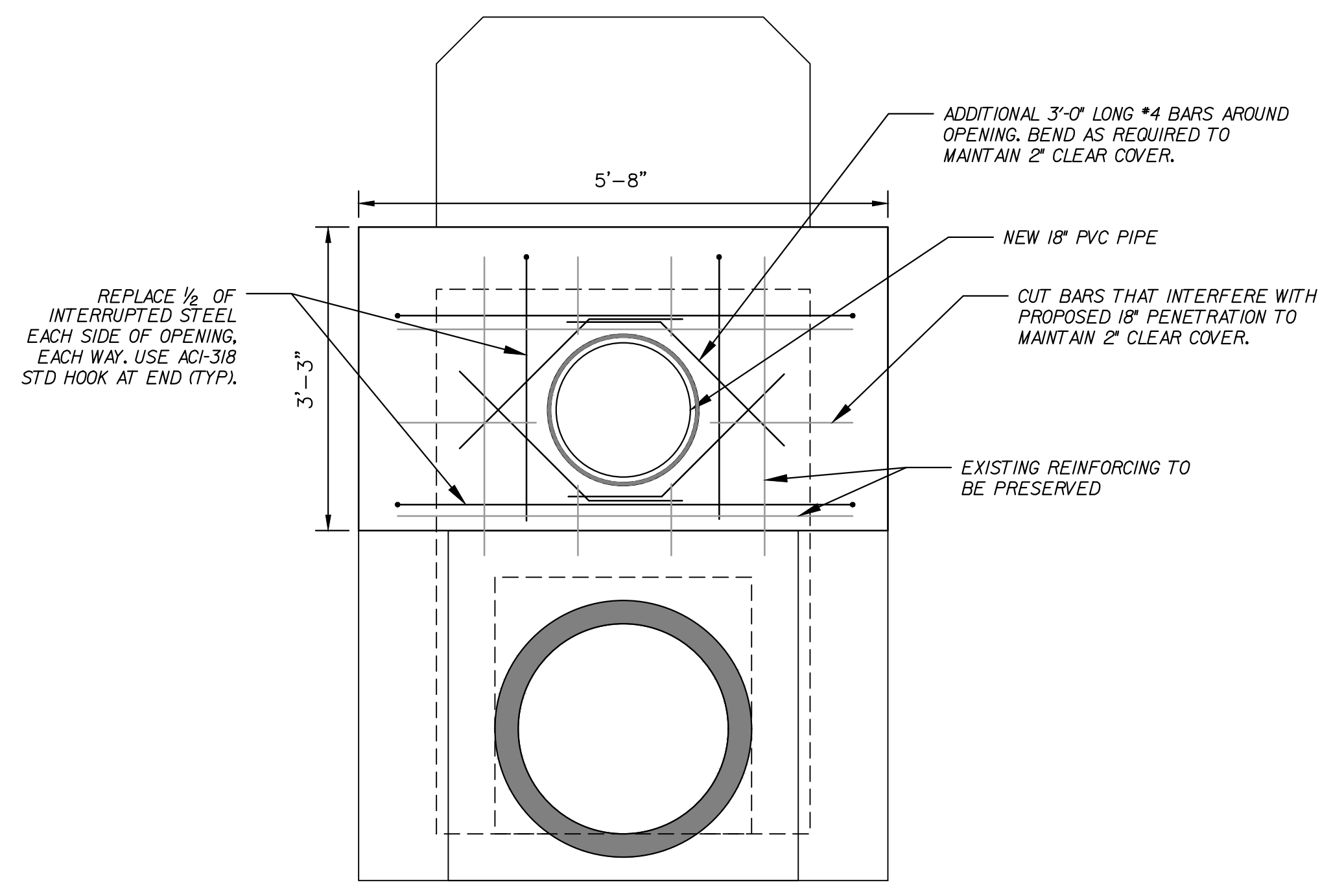
1 DEMO SECTION
3/4 - 1'-0"



2 DEMO ELEVATION
3/4 - 1'-0"



3 PROPOSED SECTION
3/4 - 1'-0"



4 PROPOSED ELEVATION
3/4 - 1'-0"

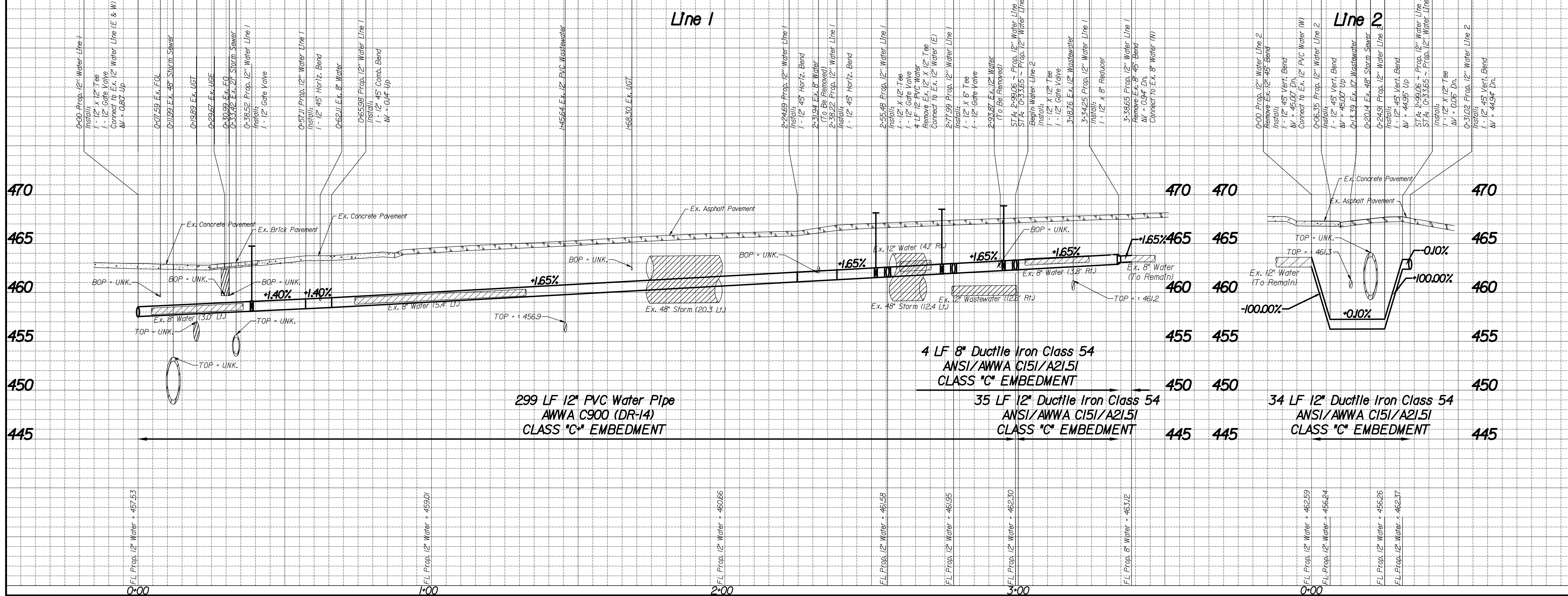
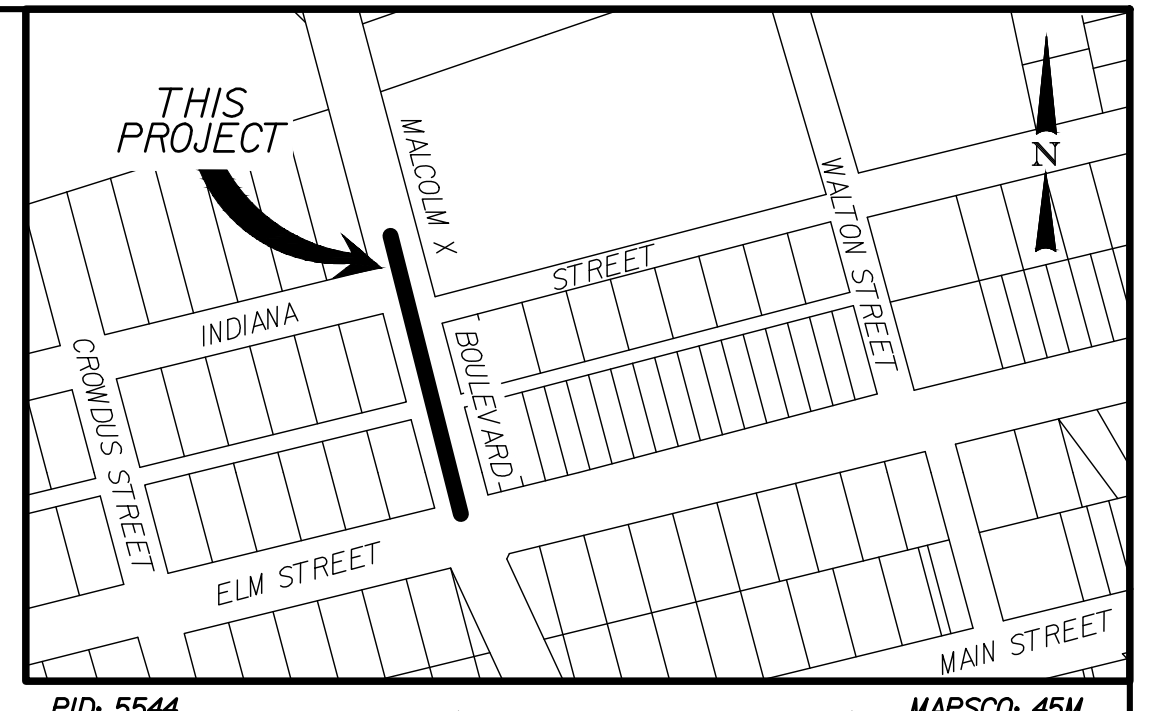
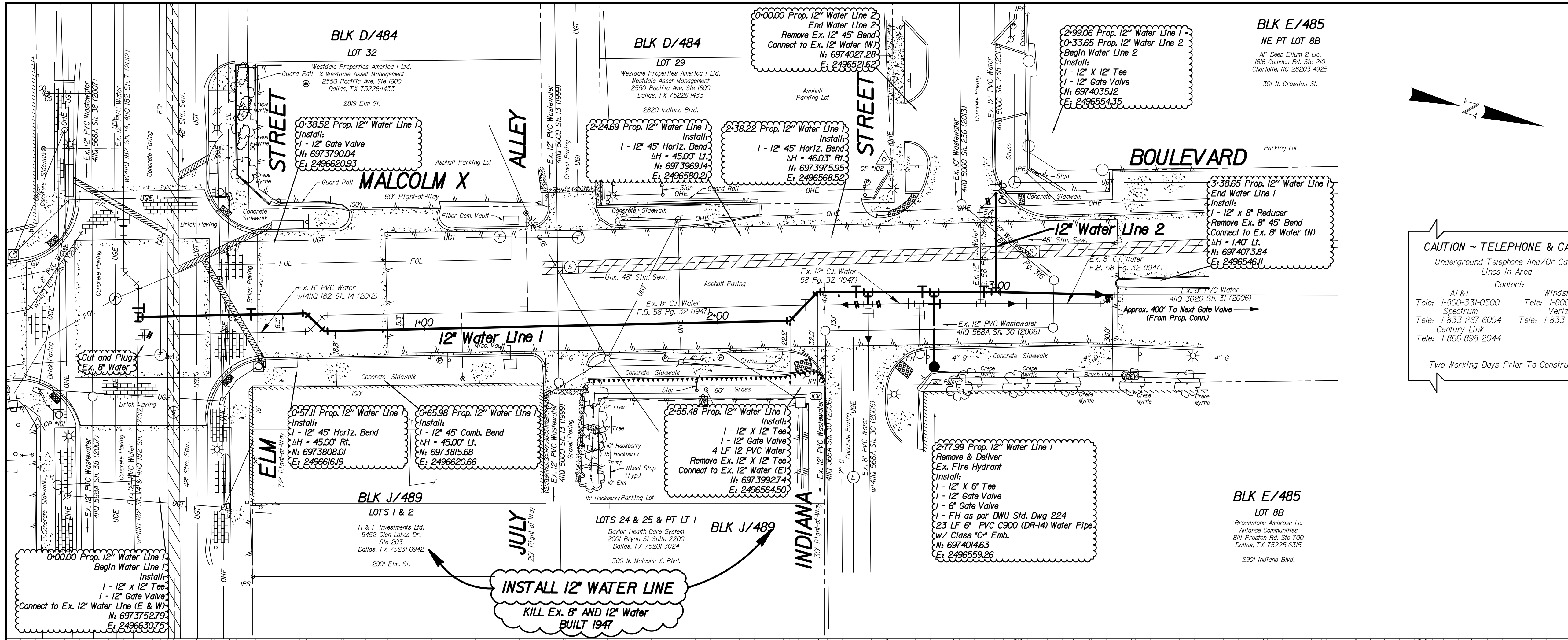
CONCRETE REMOVAL NOTES:

1. CONCRETE REMOVAL SHALL BE IN ACCORDANCE WITH TxDOT ITEM 429 CONCRETE STRUCTURE REPAIR AND ITEM 486 REMOVING STRUCTURES.
2. IF EXISTING REINFORCING IS DAMAGED DURING CONCRETE REMOVAL, CONTRACTOR SHALL CONTACT ENGINEER OF RECORD PRIOR TO PROCEEDING WITH REPAIR.

CONCRETE REPAIR NOTES:

1. CONCRETE REPAIR SHALL BE IN ACCORDANCE WITH TxDOT ITEM 429 CONCRETE STRUCTURE REPAIR AND ITEM 472 REMOVING AND RE-LAYING CULVERT.
2. CONTRACTOR SHALL USE SIKACRETE 2H SCC PLUS OR APPROVED EQUAL FOR PLACEMENT OF CONCRETE AROUND THE PROPOSED PIPE PENETRATION. CONTRACTOR SHALL CURE CONCRETE WITH FORMS AND WET BLANKETS FOR 7 DAYS PER MANUFACTURER RECOMMENDATIONS.
3. REINFORCING CLEAR COVER SHALL BE 2" ON ALL REPAIRS.
4. PROVIDE GRADE 60 REINFORCING STEEL WHEN APPLICABLE. PROVIDE CLASS C CONCRETE (F_c 3600 PSI) FOR CONCRETE REPAIR.
5. CONTRACTOR SHALL SUBMIT REPAIR MATERIALS FOR ALL OTHER PRODUCTS FOR ENGINEER REVIEW AND APPROVAL PRIOR TO BEGINNING WORK ON THE REPAIR.
6. SEE DWG STANDARD DETAIL 310 FOR MANHOLE PIPE CONNECTOR.

REFERENCES					
WATER 32-20W					
WASTEWATER 32-20S					
Kimley»Horn					
PID NO. 5987		CONTRACT NO. 20-239/240			
36" WASTEWATER LINE					
INWOOD ROAD					
AT TRE RAILROAD					
DALLAS WATER UTILITIES					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BKP	BCS	MAY 2020	4110	1780	224



REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK *45-HH
A City of Dallas Benchmark Is On Top of a Concrete Curb at the Point of Curvature at the Southeast Corner of the Intersection of Live Oak St. and Hall St.
ELEV. = 476.80 MAPSCO 45H

BENCHMARK *43-K-5
A City of Dallas Benchmark Is On Top of a Concrete Curb at the Point of Curvature at the Southwest Corner of the Intersection of Live Oak St. and Haskell Ave.
ELEV. = 476.80 MAPSCO 45K

CONTROL POINT *101
Square Cut with "X"
N. 697.372807; E. 2496675.01; ELEV. = 463.47

CONTROL POINT *102
Square Cut with "X"
N. 697.398758; E. 2495619.32; ELEV. = 467.51

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

REFERENCES

WATER
37-27w

WASTEWATER
37-27w(C)

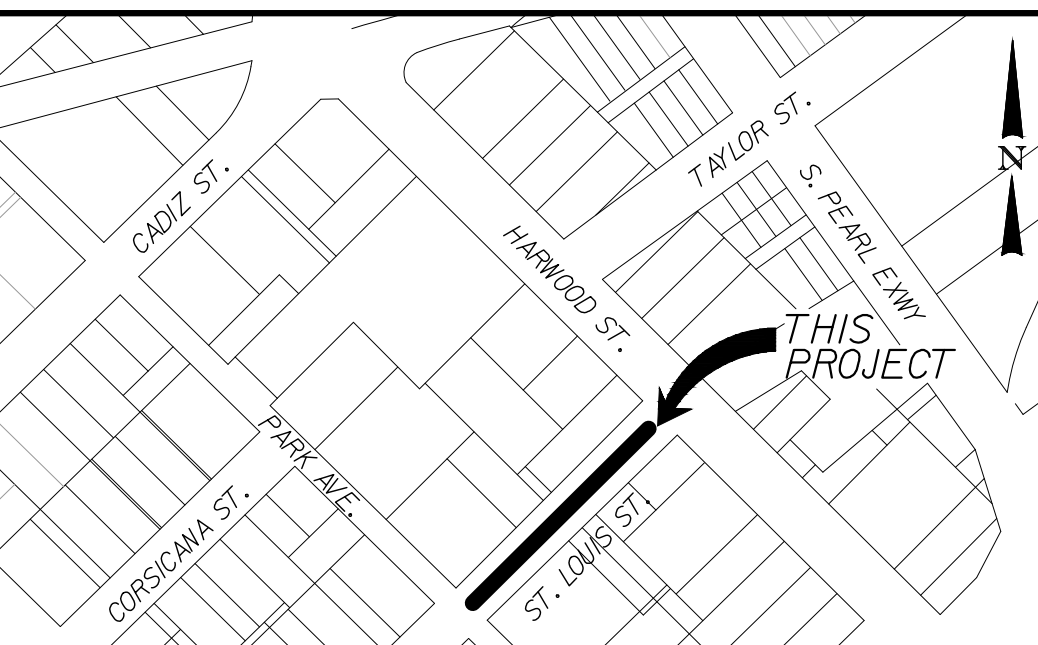
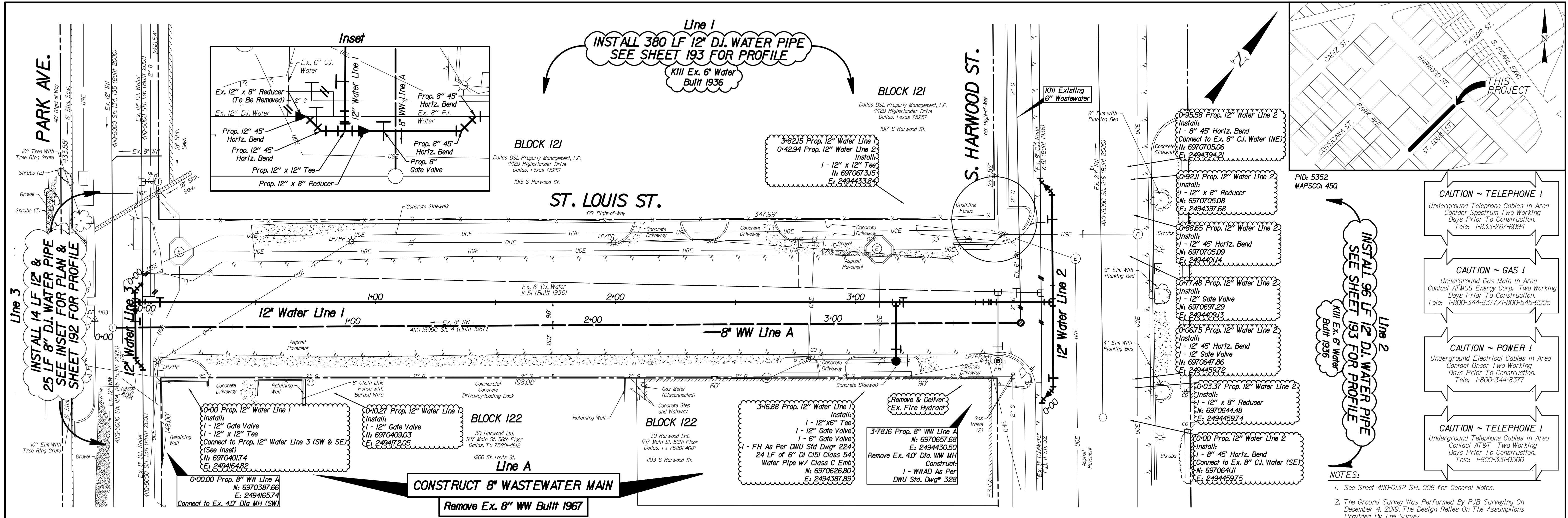
Kimley»Horn
Texas Registration No. F-928

The seal appearing on this document was authorized by Jason A. Snyder, P.E. 123328 on May 20, 2020

PID: 5544 CONTRACT NO. 20-239/240

12" WATER
MALCOLM X BLVD.
ELM ST. TO INDIANA ST.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

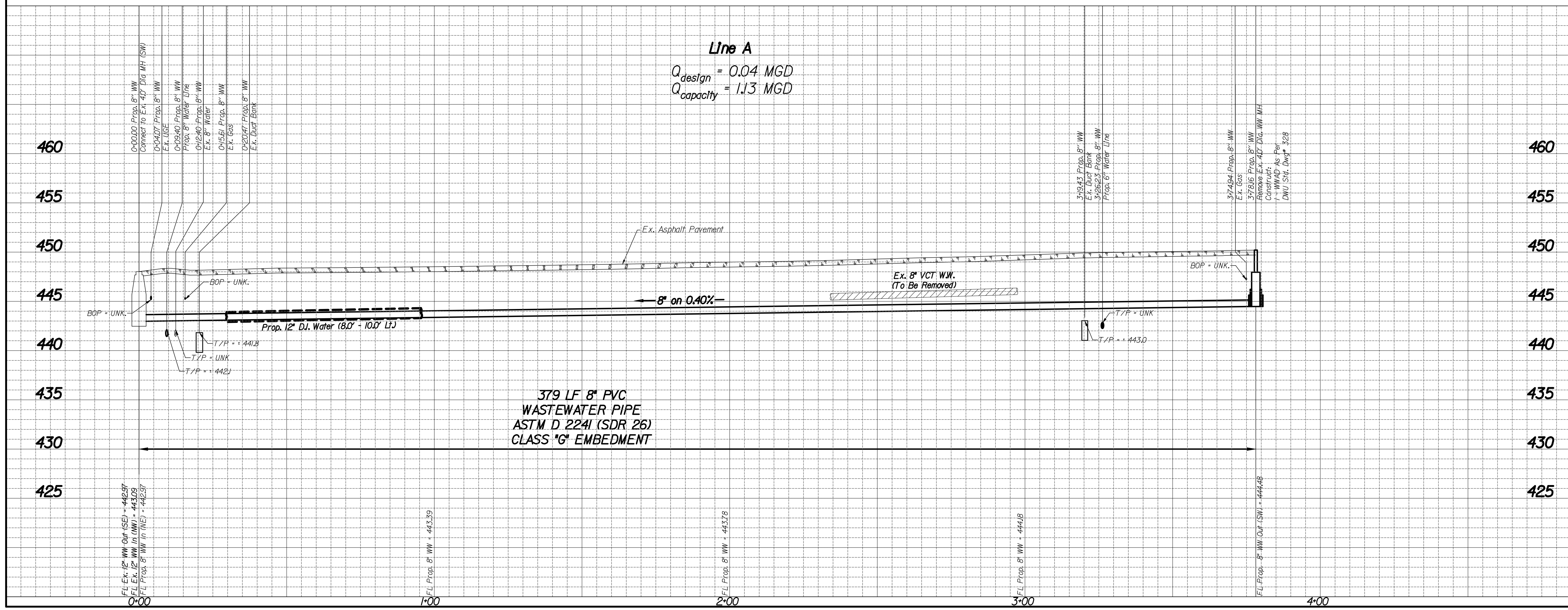
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	RHJ	MAY 2020	411Q	0182	021



- CAUTION ~ TELEPHONE !**
Underground Telephone Cables In Area
Contact Spectrum Two Working
Days Prior To Construction.
Tele: 1-833-267-6094
- CAUTION ~ GAS !**
Underground Gas Main In Area
Contact AT&T/MOS 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 Oncor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION ~ TELEPHONE !**
Underground Telephone Cables In Area
Contact AT&T Two Working
Days Prior To Construction.
Tele: 1-800-331-0500

INSTALL 96 LF 12\"/>

NOTES:
 1. See Sheet 410-0132 SH. 006 for General Notes.
 2. The Ground Survey was Performed by PJB Surveying On December 4, 2019. The Design Relies On The Assumptions Provided By The Survey.



REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

BENCHMARK *45-Q-2
A City of Dallas Benchmark Is Set on Top of a Concrete Curb at the Southwest Corner of a Storm Sewer Drop Inlet at the Southeast Corner of the Intersection.
ELEV = 442.696 MAPSCO 450

BENCHMARK *45-Q-3
A City of Dallas Benchmark Is Set on Top of a Concrete Curb, 20' South of the Centerline of Ervay Street.
ELEV = 443.327 MAPSCO 450

CONTROL POINT *101
"X" Cut
N. 6970896.594; E. 2494264.282; ELEV. = 452.477

CONTROL POINT *102
"X" Cut
N. 6970519.557; E. 2494653.647; ELEV. = 448.207

CONTROL POINT *103
"X" Cut
N. 6970377.310; E. 2494161.294; ELEV. = 448.517

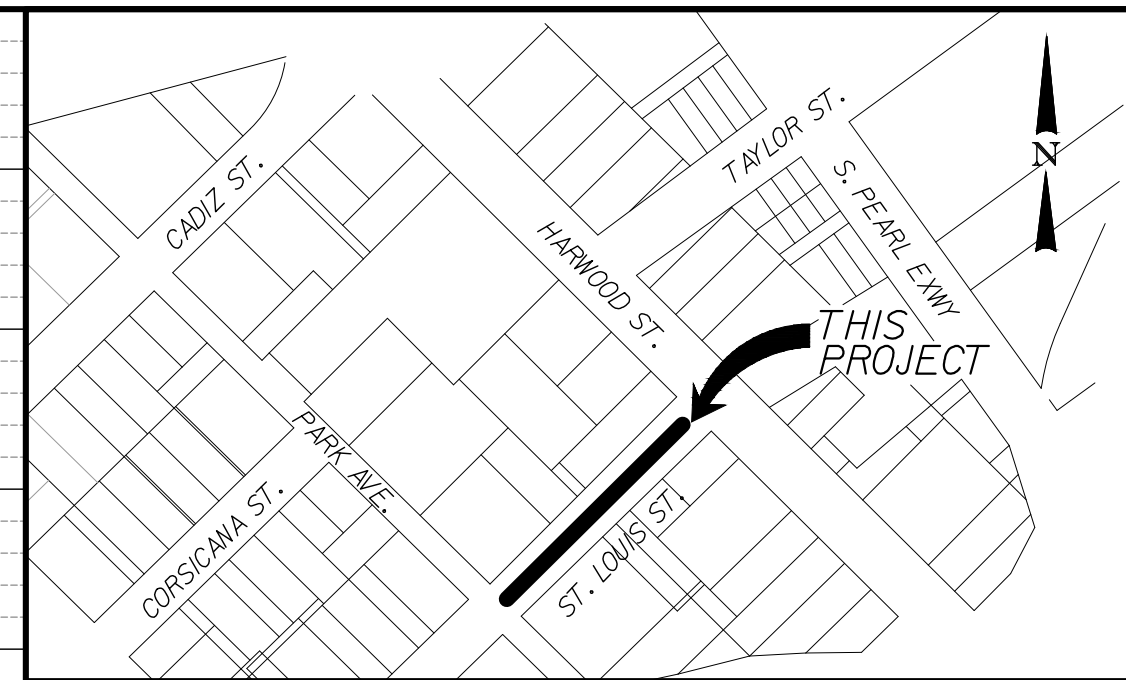
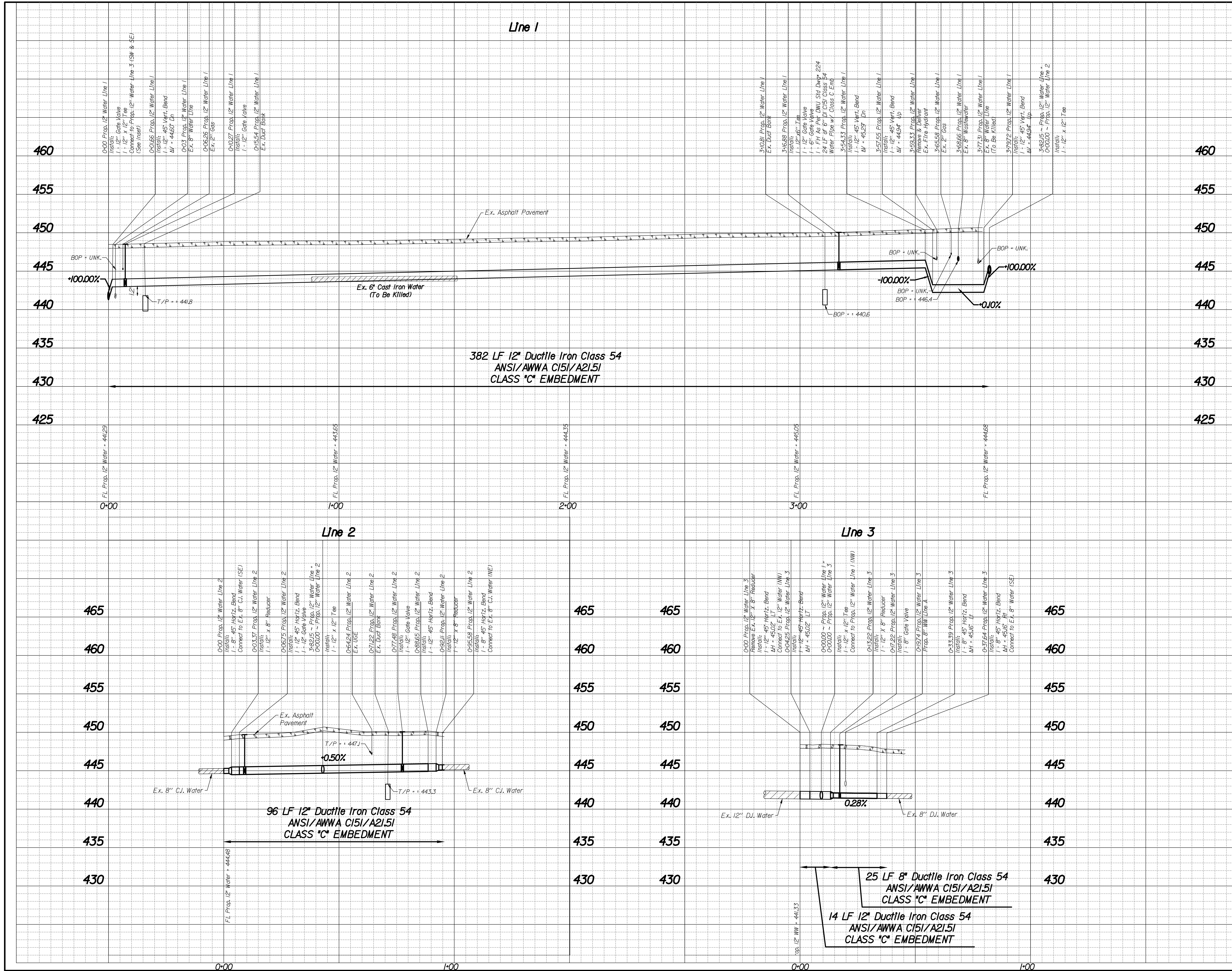
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 6'

REFERENCES
 WATER 39-26w
 WASTEWATER 39-26s

The seal appearing on this document was authorized by Jason A. Snyder, P.E. 123328 on May 20, 2020.

Kimley»Horn
 Texas Registration No. F-938
 PID: 5352 CONTRACT NO. 20-239/240
12" WATER & 8" WW
ST. LOUIS STREET
PARK AVENUE TO HARWOOD STREET
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	JDJ	MAY 2020	411Q	1599C	192



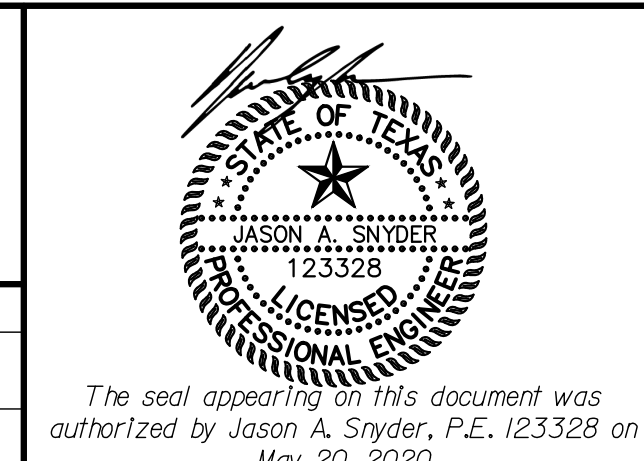
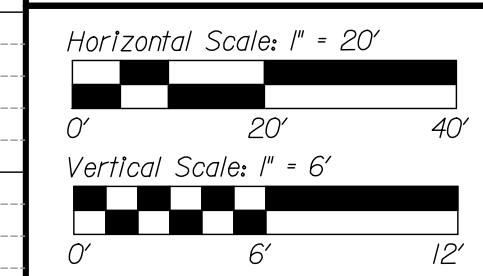
PID: 5352
MAPSCO: 450

- CAUTION ~ TELEPHONE !**
Underground Telephone Cables In Area
Days Prior To Construction.
Contact Charter Two Working
Tele: 1-833-267-6094
- 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 ~ POWER !**
Underground Electrical Cables In Area
Contact Oncor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377
- CAUTION ~ TELEPHONE !**
Underground Telephone Cables In Area
Contact AT&T Two Working
Days Prior To Construction.
Tele: 1-800-331-0500

NOTES:
1. See Sheet 41Q-0132 SH. 006 for General Notes.
2. The Ground Survey Was Performed By PJB Surveying On December 4, 2019. The Design Relies On The Assumptions Provided By The Survey.

REV NO.	DATE	DESCRIPTION	BY

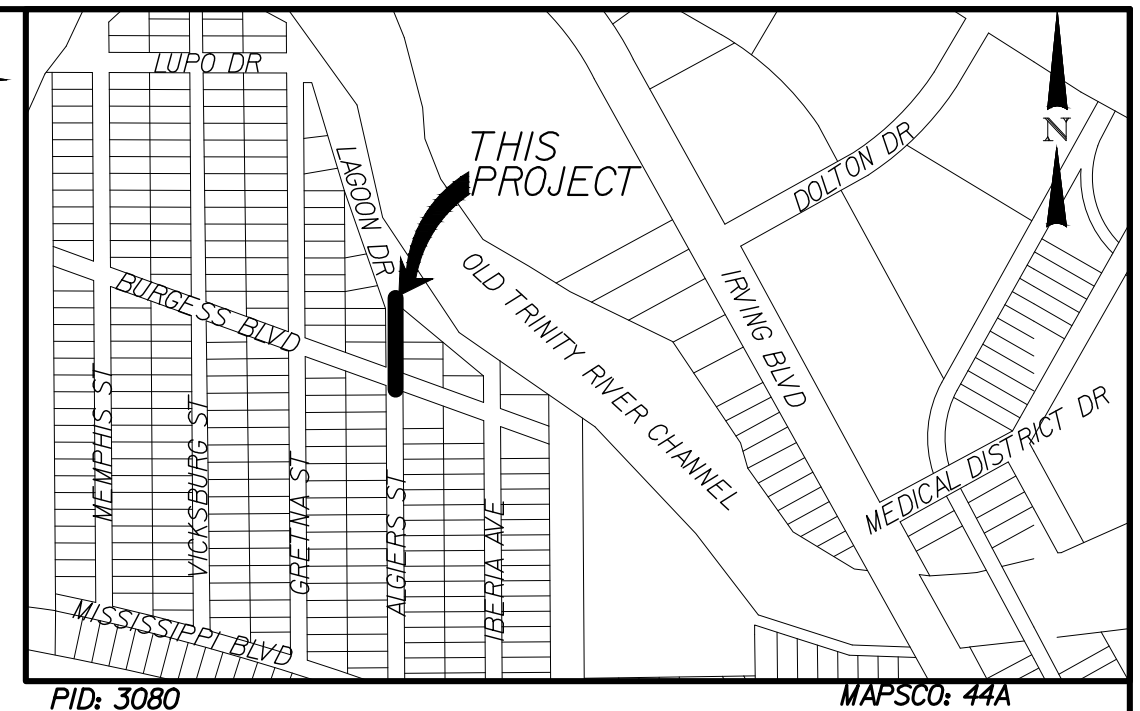
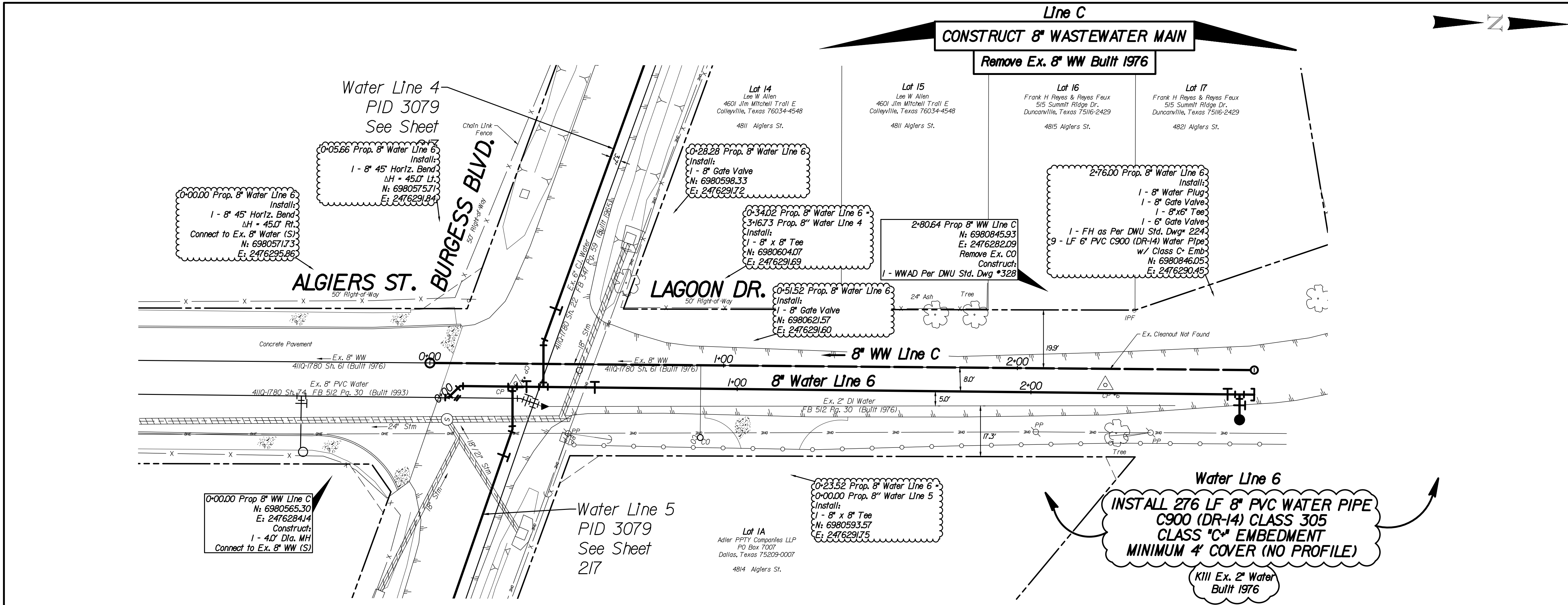
BENCHMARKS & CONTROL POINTS
BENCHMARK *45-Q-2
 A City of Dallas Benchmark Is Set on Top of a Concrete Curb at the Southwest Corner of a Storm Sewer Drop Inlet at the Southeast Corner of the Intersection.
ELEV = 442.696 MAPSCO 450
BENCHMARK *45-Q-3
 A City of Dallas Benchmark Is Set on Top of a Concrete Curb, 20' South of the Centerline of Ervay Street.
ELEV = 443.327 MAPSCO 450
CONTROL POINT *101
 "X" Cut
 N. 6970896.594; E. 2494264.282; ELEV. = 452.477
CONTROL POINT *102
 "X" Cut
 N. 6970519.557; E. 2494653.647; ELEV. = 448.207
CONTROL POINT *103
 "X" Cut
 N. 6970377.310; E. 2494161.294; ELEV. = 448.517



REFERENCES
 WATER
 WASTEWATER

Kimley»Horn
 Texas Registration No. F-998
 PID: 5352 **CONTRACT NO. 20-239/240**
12" WATER & 8" WW
ST. LOUIS STREET
PARK AVENUE TO HARWOOD STREET
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

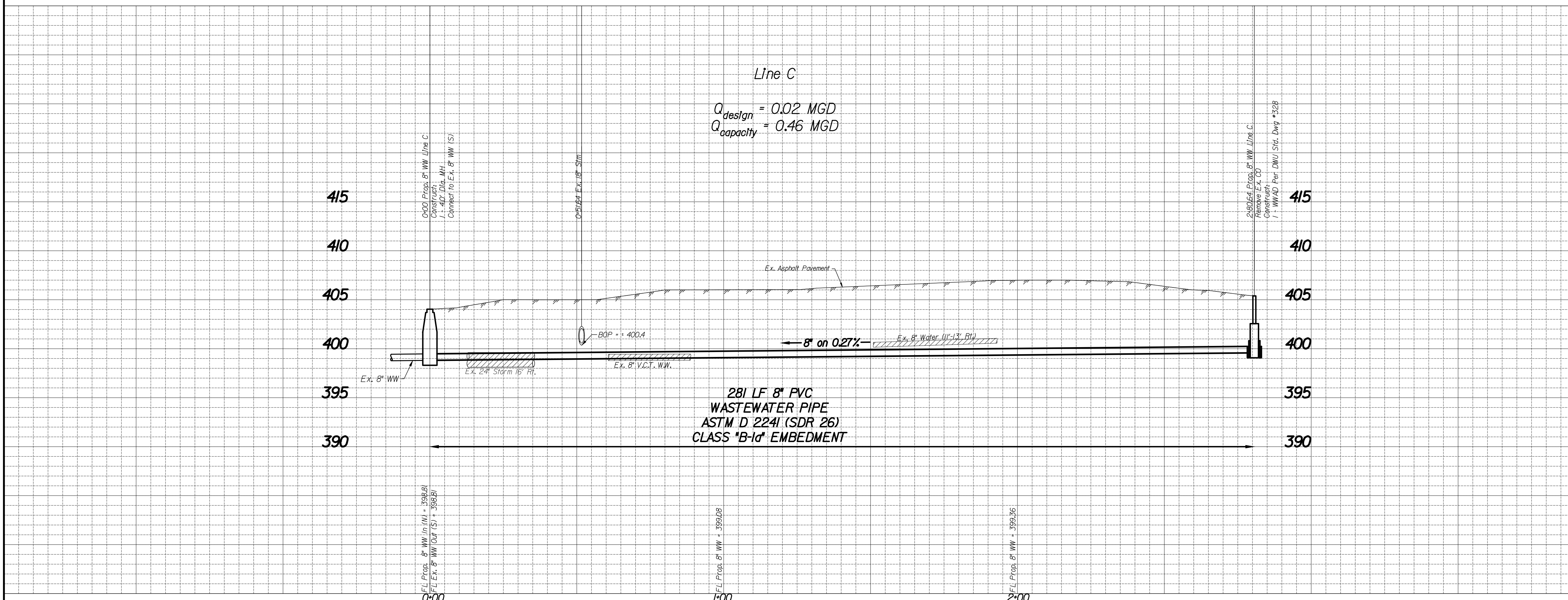
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	JDJ	MAY 2020	41IQ	1599C	193



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 ~ POWER !
Overhead Electric Cables In Area
Contact ONCOR Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

- NOTES:**
- See Sheet 411Q-0132 SH. 006 For General Notes.
 - The Ground Survey Was Performed By DAL-TECH Engineering, Inc. On December, 28 2019. The Design Relies On The Assumptions Provided By The Survey.



REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

<p>DWU BENCHMARK #1 Standard Water Department Square Curb Benchmark East Concrete Curb Center Radius In Front of Power Pole at the Northeast Corner of Burgess Blvd. and Memphis St. ELEV = 405.94 MAPSCO 44A CONTROL POINT #1 - PK Nail Set N: 6980895.647 E: 2475416.173 ELEV = 405.904 CONTROL POINT #2 - PK Nail Set N: 6980796.858 E: 2475708.127 ELEV = 405.083 CONTROL POINT #3 - PK Nail Set N: 6980695.912 E: 2475998.438 ELEV = 403.39 CONTROL POINT #4 - PK Nail Set N: 6980594.608 E: 2476290.661 ELEV = 405.403</p>	<p>DWU BENCHMARK #2 Standard Water Department Square Cut Benchmark East Concrete Curb Center Radius In Front of Building #4722 Memphis St. and 250 LF North of Mississippi Ave. ELEV = 403.76 MAPSCO 44A CONTROL POINT #5 - PK Nail Set N: 6980501.233 E: 2476581.747 ELEV = 405.407 CONTROL POINT #6 - PK Nail Set N: 6980795.322 E: 2476287.985 ELEV = 407.003 CONTROL POINT #7 - PK Nail Set N: 6981581.073 E: 2475987.656 ELEV = 403.39 CONTROL POINT #8 - PK Nail Set N: 6979747.485 E: 2476009.979 ELEV = 404.203</p>
---	--

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

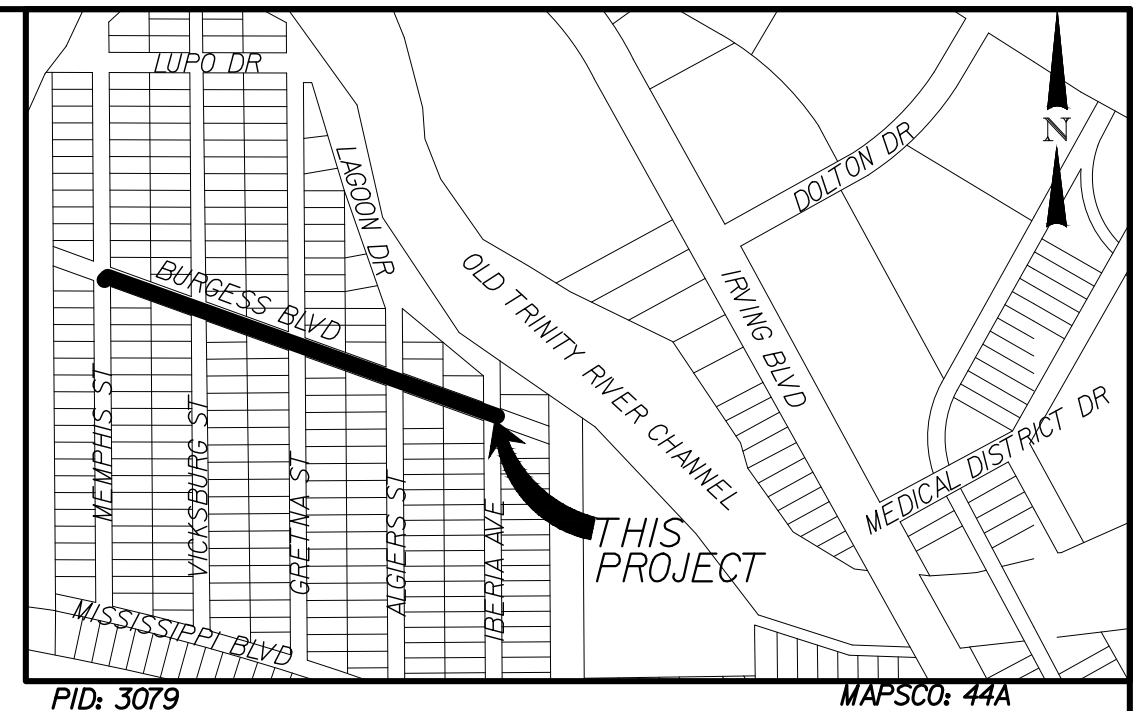
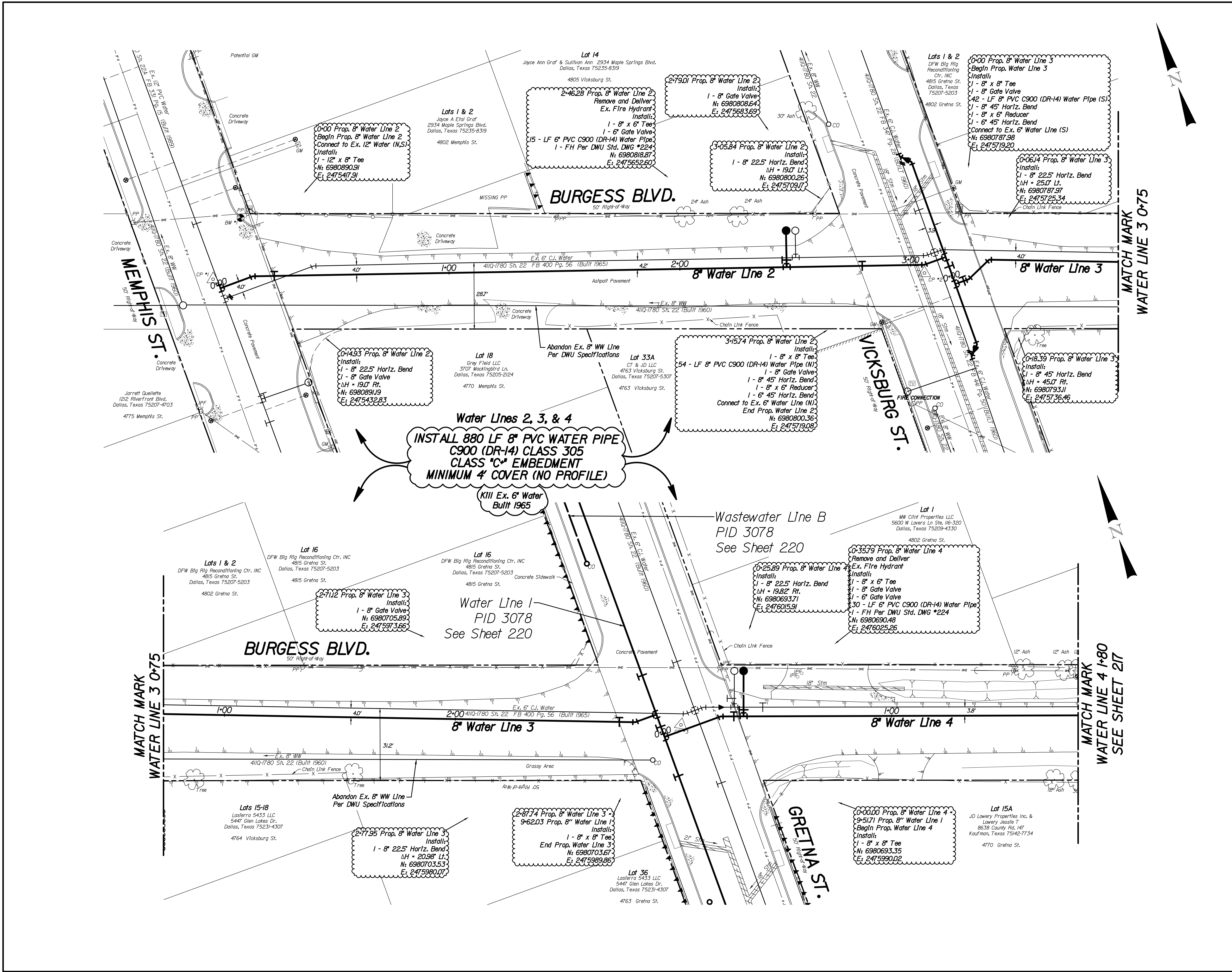
REFERENCES
WATER
33-20W, 34-19W, & 34-20W
WASTEWATER
BH E-10, BH E-11

Kimley»Horn
Texas Registration No. F-938

The seal appearing on this document was
authorized by Jason A. Snyder, P.E. 123328 on
May 20, 2020

PID: 3080	CONTRACT NO. 20-239/240
8" WATER & WASTEWATER	
ALGIERS STREET	
BURGESS BOULEVARD TO LAGOON DRIVE	
DALLAS WATER UTILITIES	
CITY OF DALLAS, TEXAS	

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	MLD	MAY 2020	411Q	1780	215



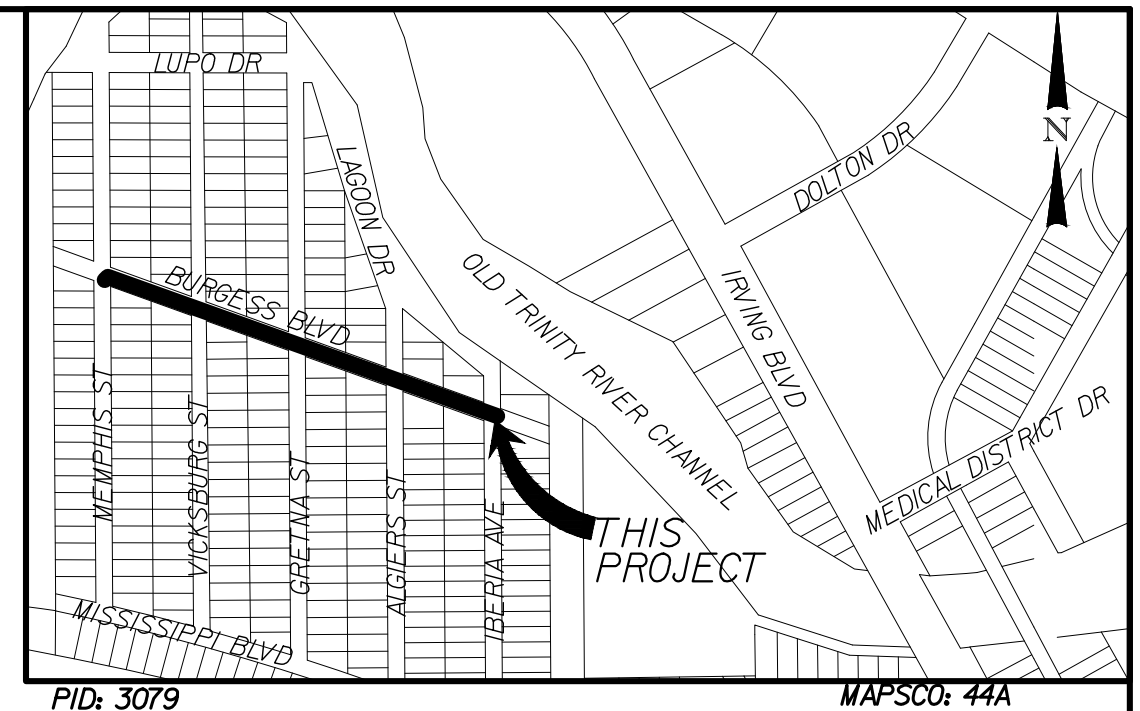
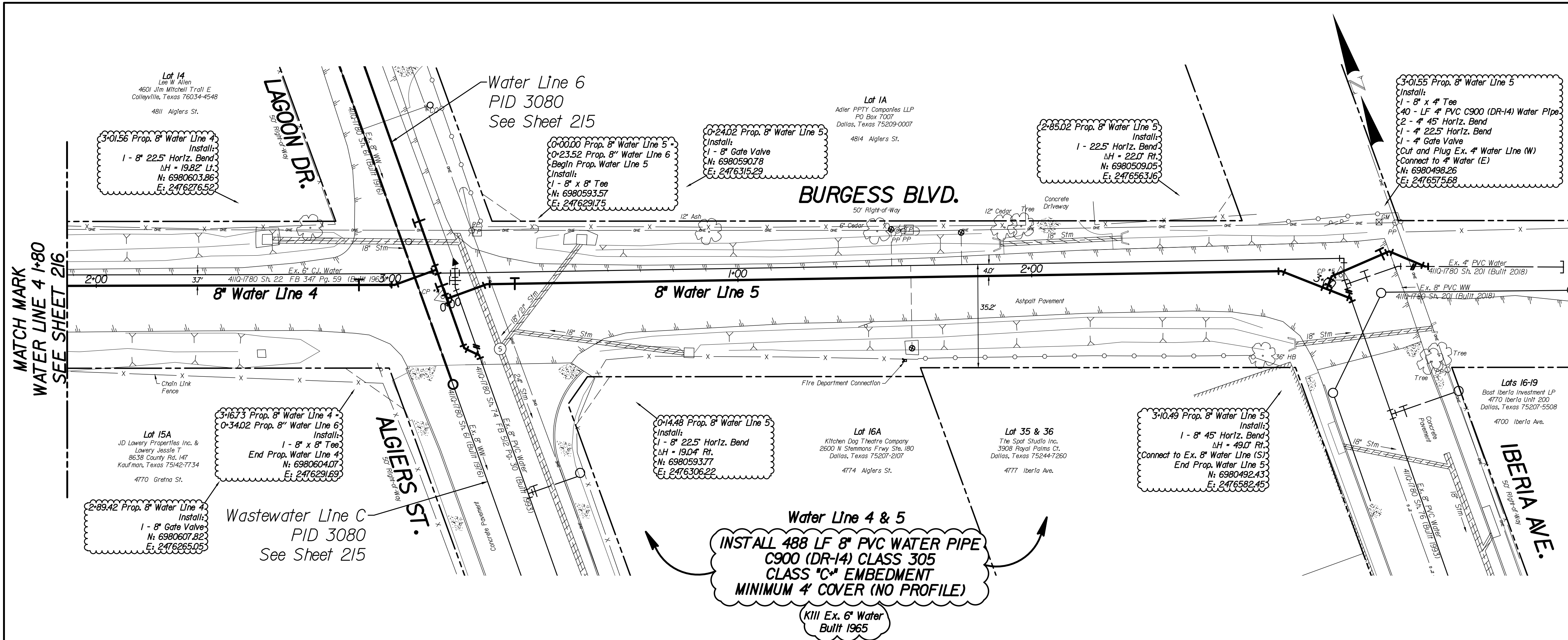
CAUTION ~ GAS !
 Underground Gas Main In Area
 Contact ATMOS Energy Corp. Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377/1-800-545-6005

CAUTION ~ POWER !
 Overhead Electric Cables In Area
 Contact ONCOR Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377/888-313-4747

NOTES:

- See Sheet 411Q-0132 SH. 006 For General Notes.
- The Ground Survey Was Performed By DAL-TECH Engineering, Inc. On December, 28 2019. The Design Relies On The Assumptions Provided By The Survey.

REVISIONS					
REV NO.	DATE	DESCRIPTION	BY		
BENCHMARKS & CONTROL POINTS DWU BENCHMARK #1 Standard Water Department Square Curb Benchmark East Concrete Curb Center Radius In Front of Power Pole at the Northwest Corner of Burgess Blvd. and Memphis St. ELEV = 405.94 MAPSCO 44A CONTROL POINT #1 - PK Nail Set N: 6980895.647 E: 2475416.73 ELEV = 405.904 CONTROL POINT #2 - PK Nail Set N: 6980796.858 E: 2475708.27 ELEV = 405.083 CONTROL POINT #3 - PK Nail Set N: 6980695.912 E: 2475998.438 ELEV = 403.39 CONTROL POINT #4 - PK Nail Set N: 6980594.608 E: 2476290.661 ELEV = 405.403 DWU BENCHMARK #2 Standard Water Department Square Cut Benchmark East Concrete Curb Center Radius In Front of Building #4722 Memphis St. and 250 LF North of Mississippi Ave. ELEV = 403.76 MAPSCO 44A CONTROL POINT #5 - PK Nail Set N: 6980501.033 E: 2476581.47 ELEV = 405.407 CONTROL POINT #6 - PK Nail Set N: 6980795.322 E: 2476287.985 ELEV = 407.003 CONTROL POINT #7 - PK Nail Set N: 6981581.073 E: 2475987.656 ELEV = 403.39 CONTROL POINT #8 - PK Nail Set N: 6979747.485 E: 2476009.979 ELEV = 404.203					
Horizontal Scale: 1" = 20' 		Vertical Scale: 1" = 6' 			
REFERENCES WATER WASTEWATER					
Kimley»Horn Texas Registration No. F-938 PID: 3079 CONTRACT NO. 20-239/240 8" WATER BURGESS BOULEVARD MEMPHIS STREET TO IBERIA AVENUE DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	MLD	MAY 2020	411Q	1780	216



MATCH MARK
WATER LINE 4 1+80
SEE SHEET 216

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

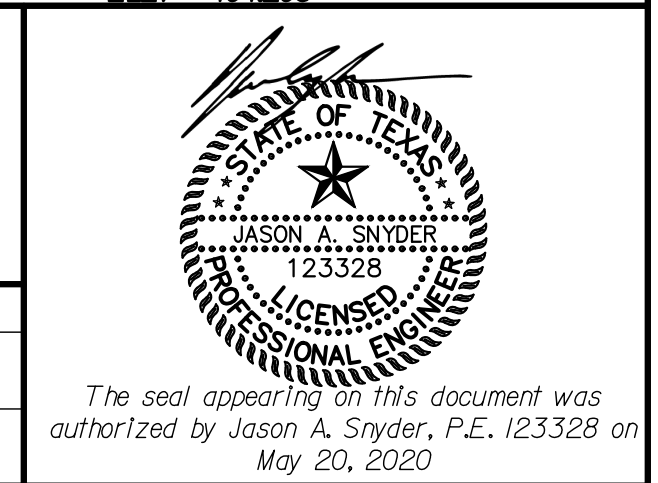
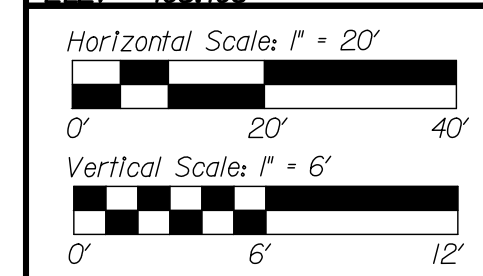
CAUTION ~ POWER !
Overhead Electric Cables In Area
Contact ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

NOTES:

- See Sheet 411Q-0132 SH. 006 for General Notes.
- The Ground Survey Was Performed By DAL-TECH Engineering, Inc. On December, 28 2019. The Design Relies On The Assumptions Provided By The Survey.

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS	
DWU BENCHMARK #1 Standard Water Department Square Cut Benchmark East Concrete Curb Center Radius In Front of Power Pole at the Northeast Corner of Burgess Blvd. and Memphis St. ELEV = 405.94 MAPSCO 44A CONTROL POINT #1 - PK Nail Set N: 6980956.47 E: 2475416.73 ELEV = 405.904 CONTROL POINT #2 - PK Nail Set N: 6980796.858 E: 2475708.27 ELEV = 405.083 CONTROL POINT #3 - PK Nail Set N: 6980695.912 E: 2475998.438 ELEV = 403.39 CONTROL POINT #4 - PK Nail Set N: 6980594.608 E: 2476290.661 ELEV = 405.403	DWU BENCHMARK #2 Standard Water Department Square Cut Benchmark East Concrete Curb Center Radius In Front of Building #4722 Memphis St. and 250 LF North of Mississippi Ave. ELEV = 403.76 MAPSCO 44A CONTROL POINT #5 - PK Nail Set N: 6980501.033 E: 2476581.747 ELEV = 405.407 CONTROL POINT #6 - PK Nail Set N: 6980795.322 E: 2476287.985 ELEV = 407.003 CONTROL POINT #7 - PK Nail Set N: 6981581.073 E: 2475987.656 ELEV = 402.733 CONTROL POINT #8 - PK Nail Set N: 6979747.485 E: 2476009.979 ELEV = 404.203



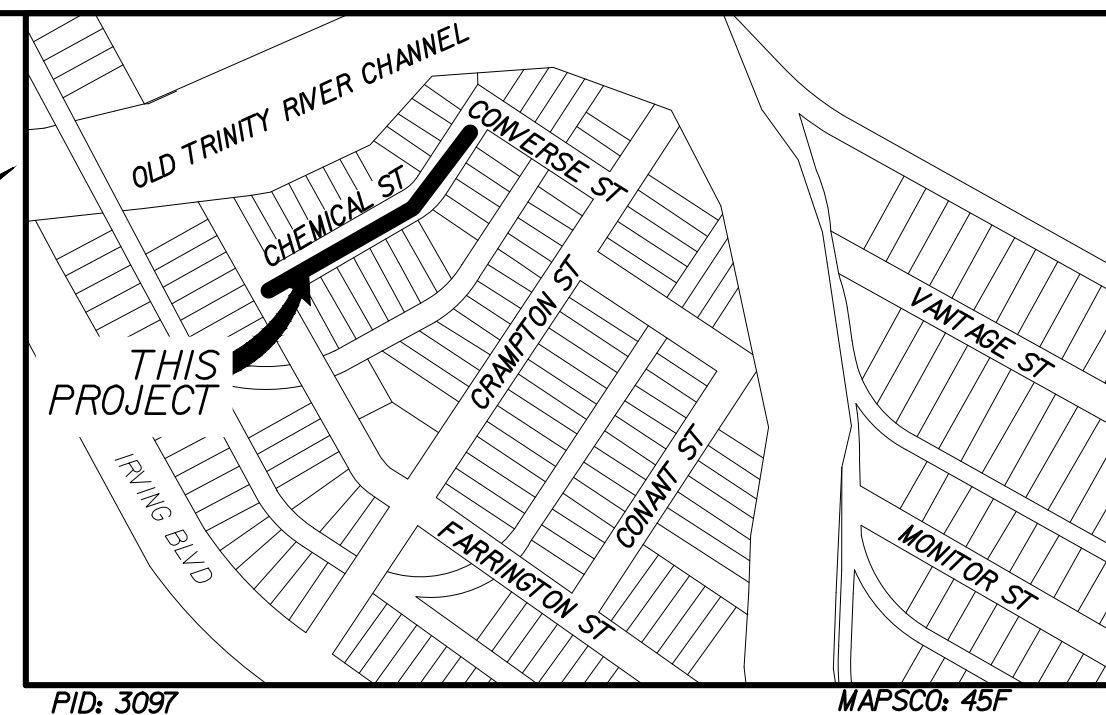
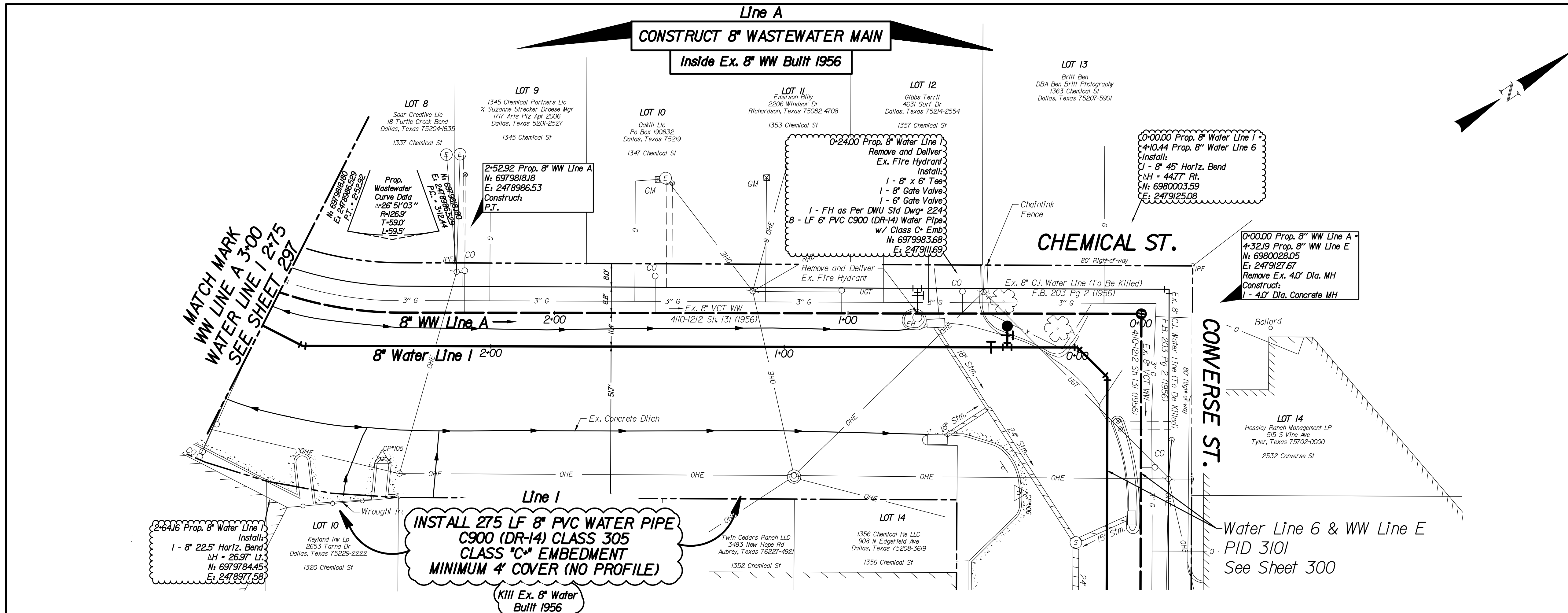
REFERENCES
WATER
WASTEWATER

Kimley»Horn
Texas Registration No. F-998

PID: 3079 CONTRACT NO. 20-239/240

8" WATER
BURGESS BOULEVARD
MEMPHIS STREET TO IBERIA AVENUE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	MLD	MAY 2020	411Q	1780	217

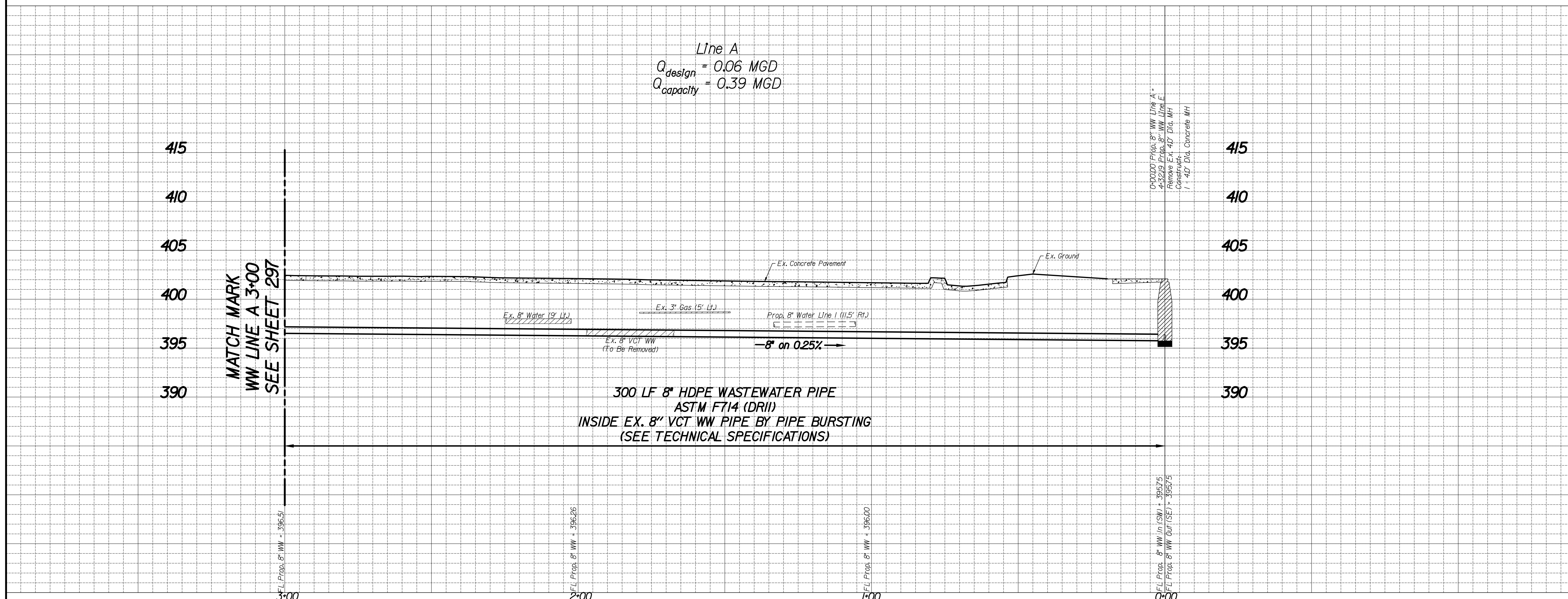


CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&M Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

CAUTION ~ POWER !
Overhead Electric Cables In Area
Contact ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

NOTES:

- See Sheet 411Q-0132 SH. 006 For General Notes.
- The Ground Survey Was Performed By Dal-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS	
DMU BENCHMARK 044B Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd, on the south side of Medical District Dr. ELEV = 402.17 MAPSCO 45F	
CONTROL POINT *105 - "X" Cut N: 6979785.891 E: 2479025.162 ELEV = 402.75	
CONTROL POINT *106 - "X" Cut N: 6979816.274 E: 2479155.621 ELEV = 402.43	

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

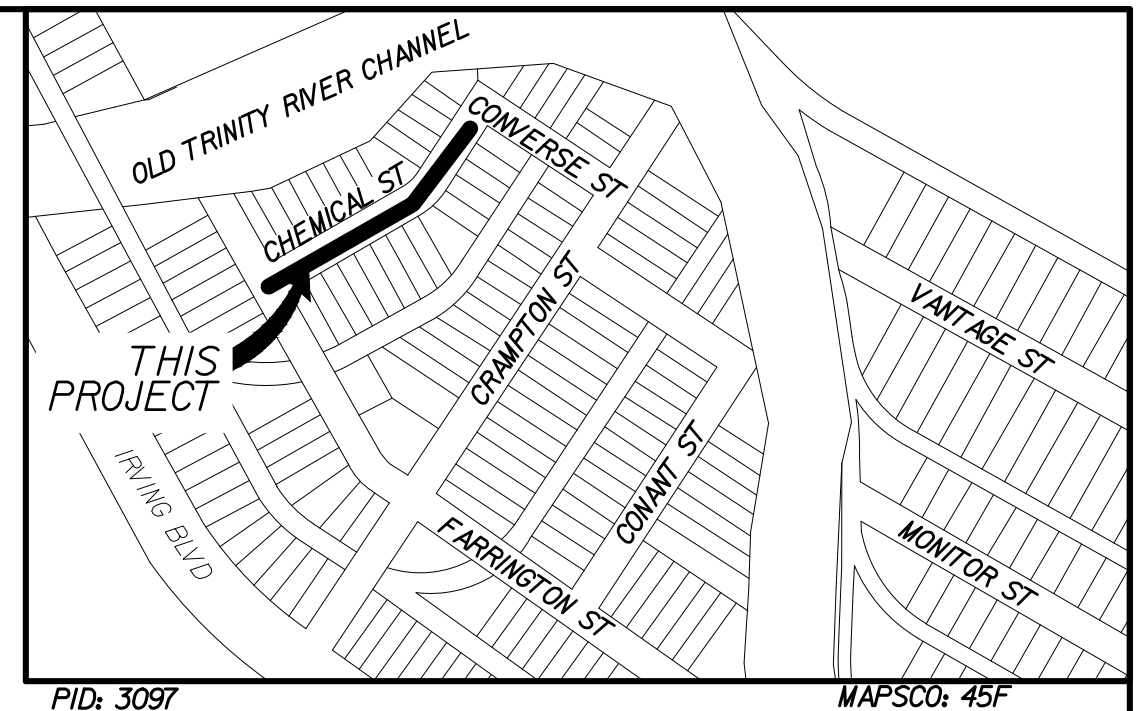
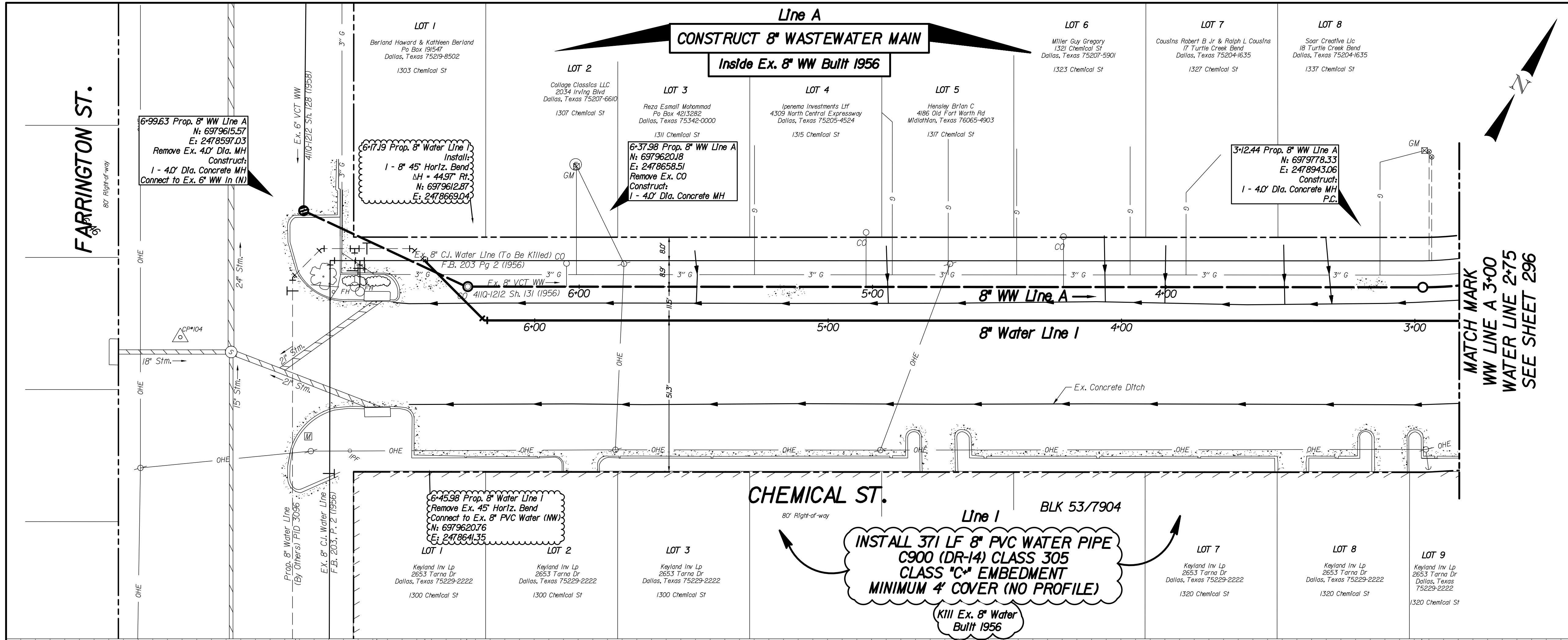
REFERENCES	
WATER	34-21W
WASTEWATER	BH F-II

Kimley»Horn
Texas Registration No. F-928

PID: 3097 CONTRACT NO. 20-239/240

8" WATER & 8" WASTEWATER
CHEMICAL STREET
FARRINGTON ST TO CONVERSE ST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

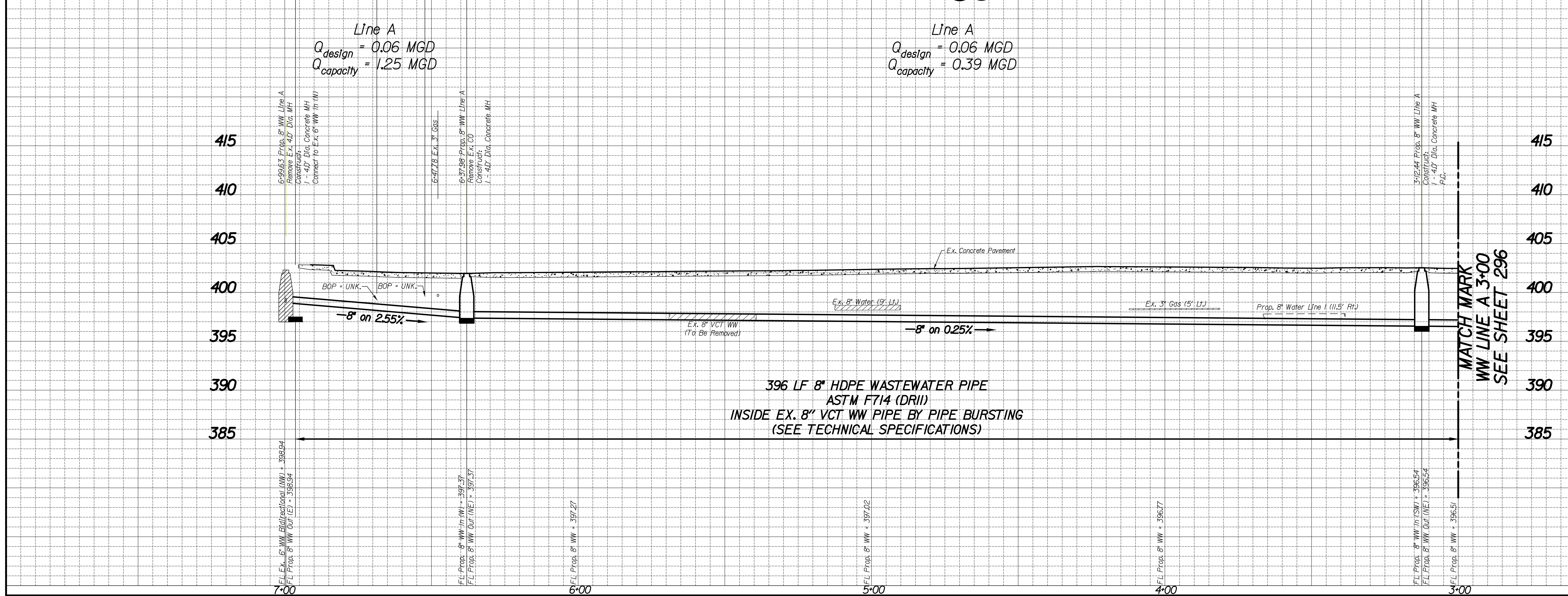
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	MLD	MAY 2020	411Q	1212	296



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 ~ POWER !
Overhead Electric Cables In Area
Contact ONCOR Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

- NOTES:**
- See Sheet 411Q-0132 SH. 006 For General Notes.
 - The Ground Survey Was Performed By Dal-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.



REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

DWU BENCHMARK 044B
Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd. on the south side of Medical District Dr.
ELEV - 402.17 MAPSCO 45F

CONTROL POINT *104 - "X" CUT
N: 6979557.454 E: 2478581.83
ELEV - 402.55

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

REFERENCES

WATER
34-21W

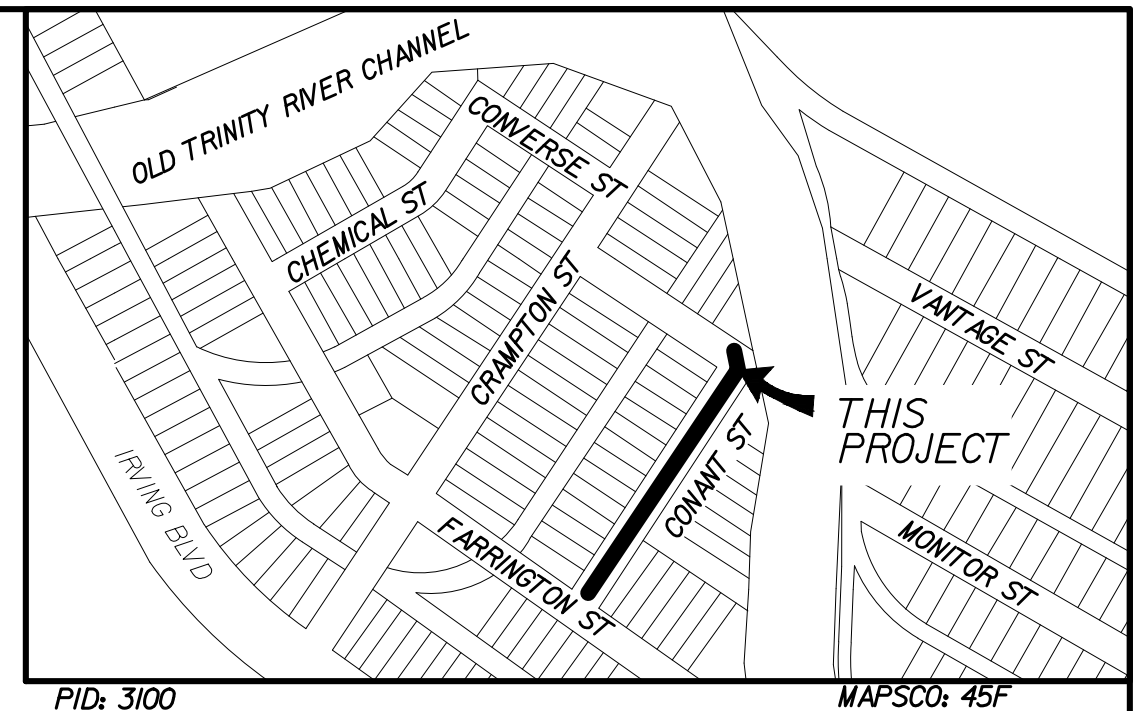
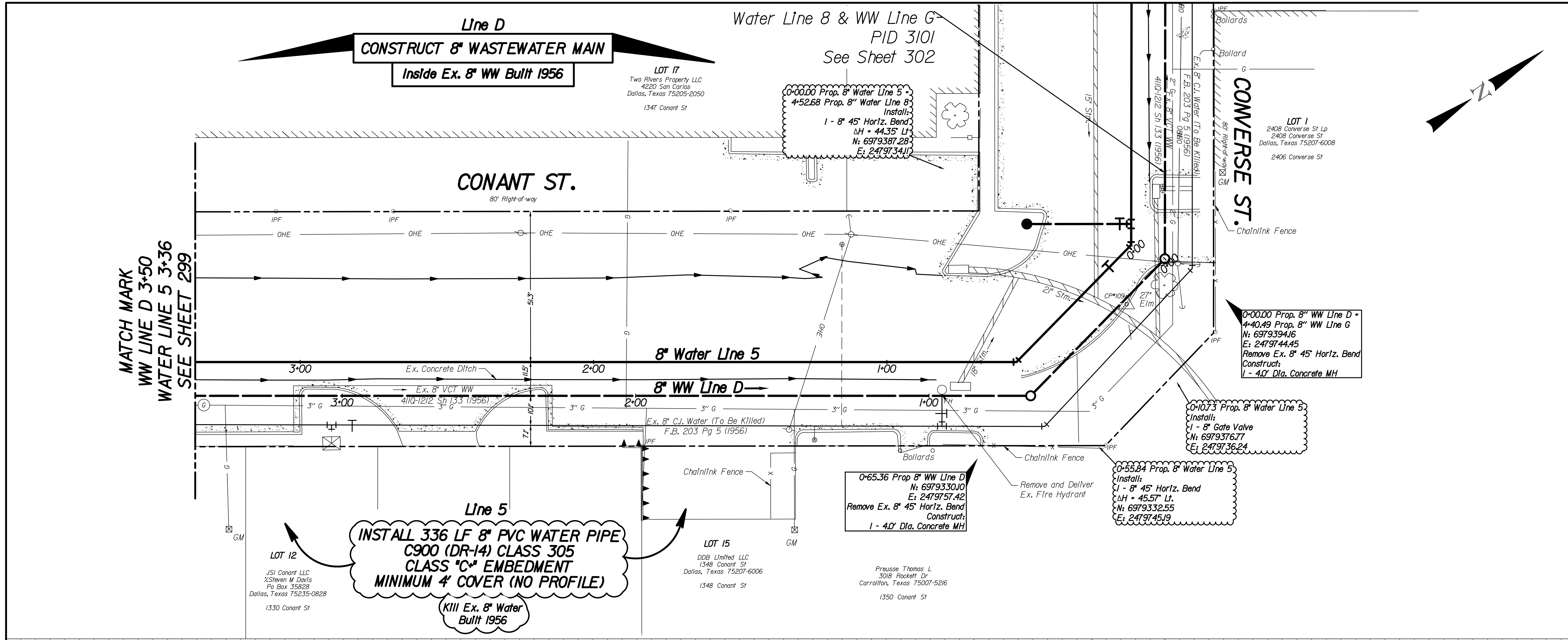
WASTEWATER
BH F-II

Kimley»Horn
Texas Registration No. F-928

PID: 3097 CONTRACT NO. 20-239/240

8" WATER & 8" WASTEWATER
CHEMICAL STREET
FARRINGTON ST TO CONVERSE ST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	MLD	MAY 2020	411Q	1212	297

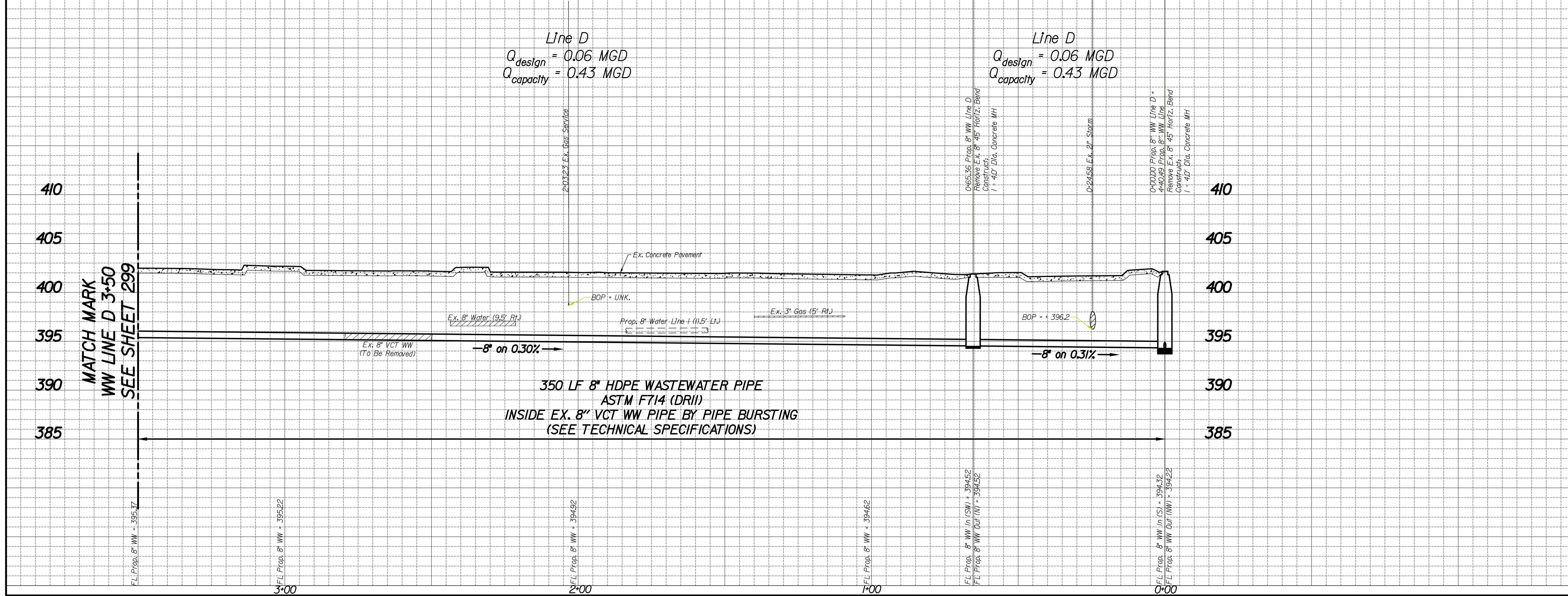


CAUTION ~ GAS !
Underground Gas Main In Area
Contact ATMOS Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

CAUTION ~ POWER !
Overhead Electric Cables In Area
Contact ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

NOTES:

- See Sheet 410-0132 SH. 006 For General Notes.
- The Ground Survey Was Performed By Dal-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

DWU BENCHMARK 044B
Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd. on the south side of Medical District Dr.
ELEV = 402.17 MAPSCO 45F

CONTROL POINT *109 - ** Cut
N: 6979374666 E: 2479749951
ELEV = 402.19

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

REFERENCES

WATER
34-21W

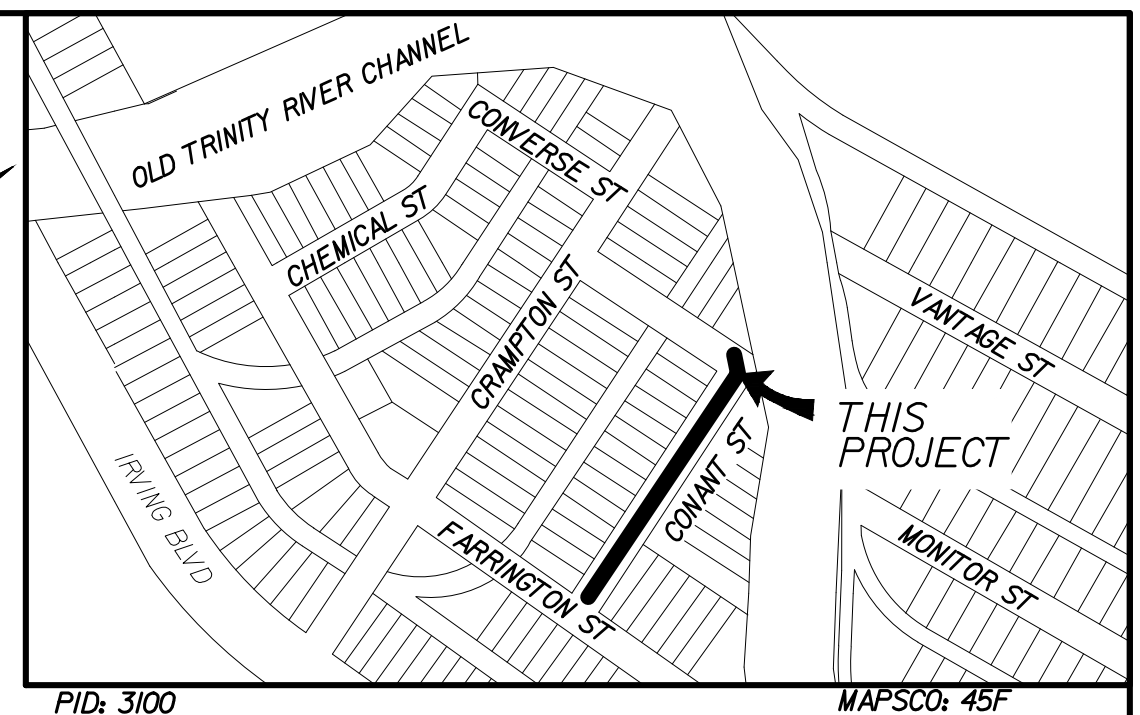
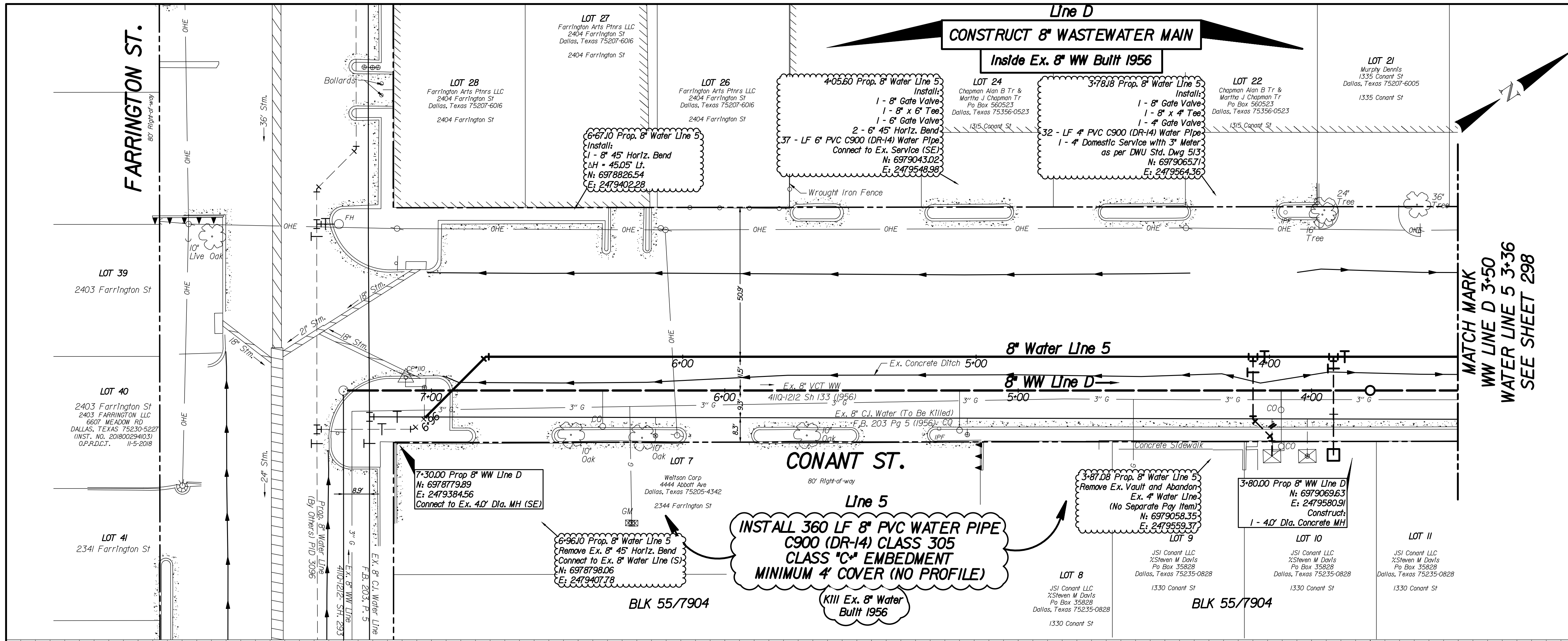
WASTEWATER
BH F-II

Kimley»Horn
Texas Registration No. F-598

PID: 3100 CONTRACT NO. 20-239/240

**8" WATER & 8" WASTEWATER
CONANT STREET
FARRINGTON ST TO CONVERSE ST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS**

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	MLD	MAY 2020	411Q	1212	298

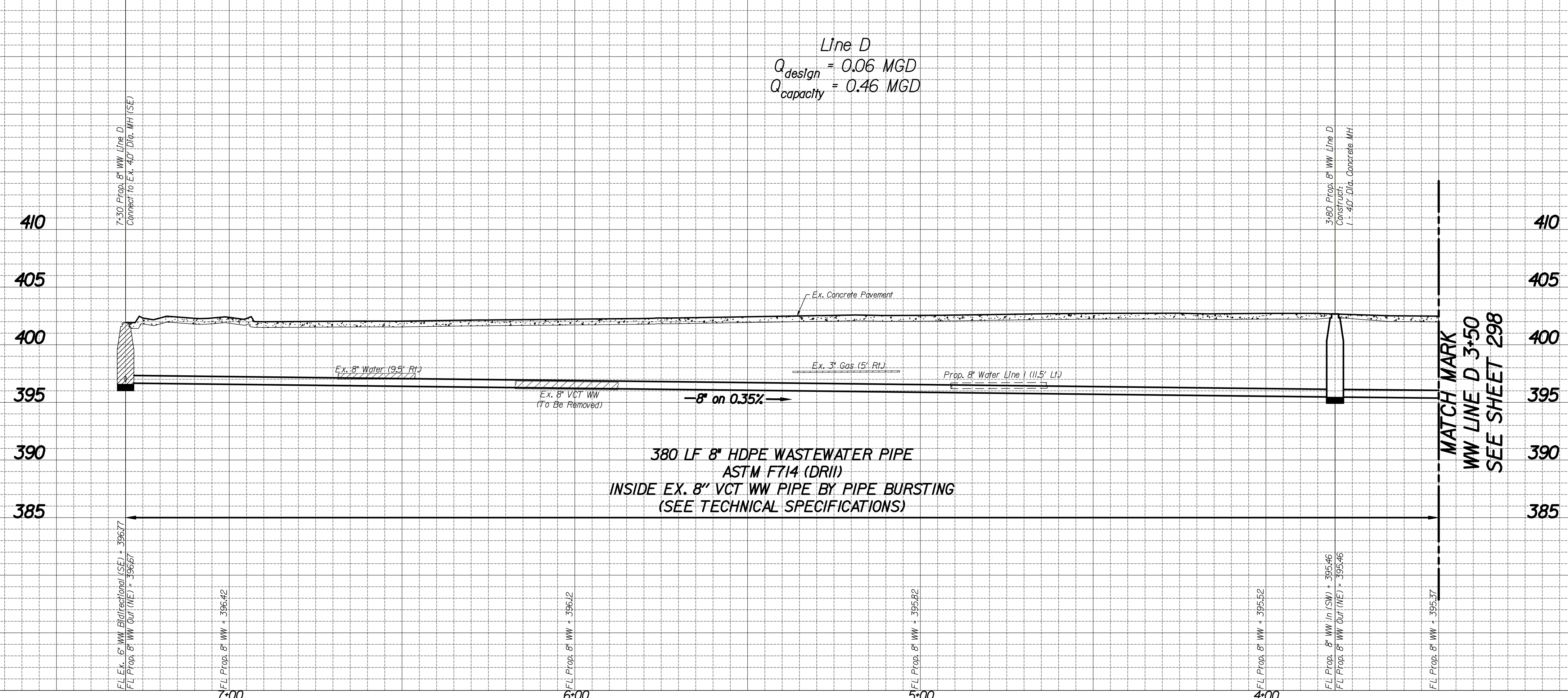


CAUTION ~ GAS !
 Underground Gas Main In Area
 Contact ATMOS Energy Corp. Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377/1-800-545-6005

CAUTION ~ POWER !
 Overhead Electric Cables In Area
 Contact CONCOR Two Working
 Days Prior To Construction.
 Tele: 1-800-344-8377/888-313-4747

- NOTES:**
- See Sheet 411Q-0132 SH. 006 For General Notes.
 - The Ground Survey Was Performed By Del-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.
 - Contractor to Locate Parallel Gas Line prior to Beginning of Construction.

Line D
 $Q_{design} = 0.06 \text{ MGD}$
 $Q_{capacity} = 0.46 \text{ MGD}$



380 LF 8" HDPE WASTEWATER PIPE
 ASTM F714 (DR11)
 INSIDE EX. 8" VCT WW PIPE BY PIPE BURSTING
 (SEE TECHNICAL SPECIFICATIONS)

REVISIONS			
REV. NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS	
DMU BENCHMARK 044B Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd. on the south side of Medical District Dr. ELEV - 402.17 MAPSCO 45F	
CONTROL POINT *110 - "X" Cut N: 6978799.979 E: 2479392.846 ELEV - 402.29	

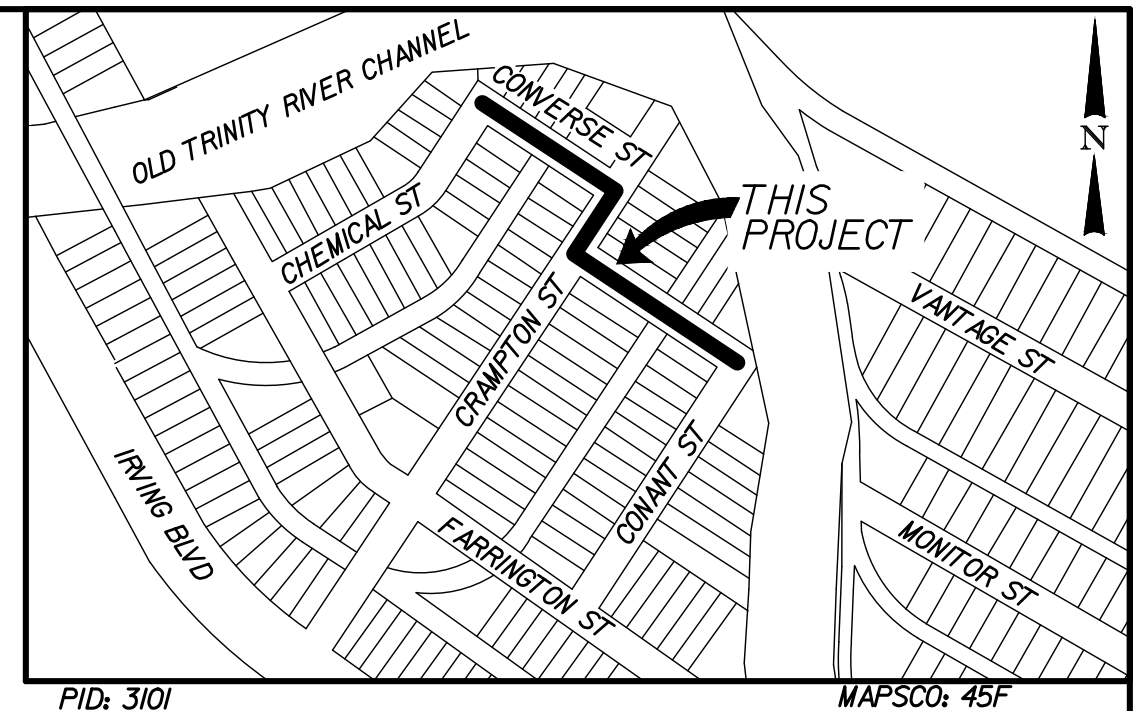
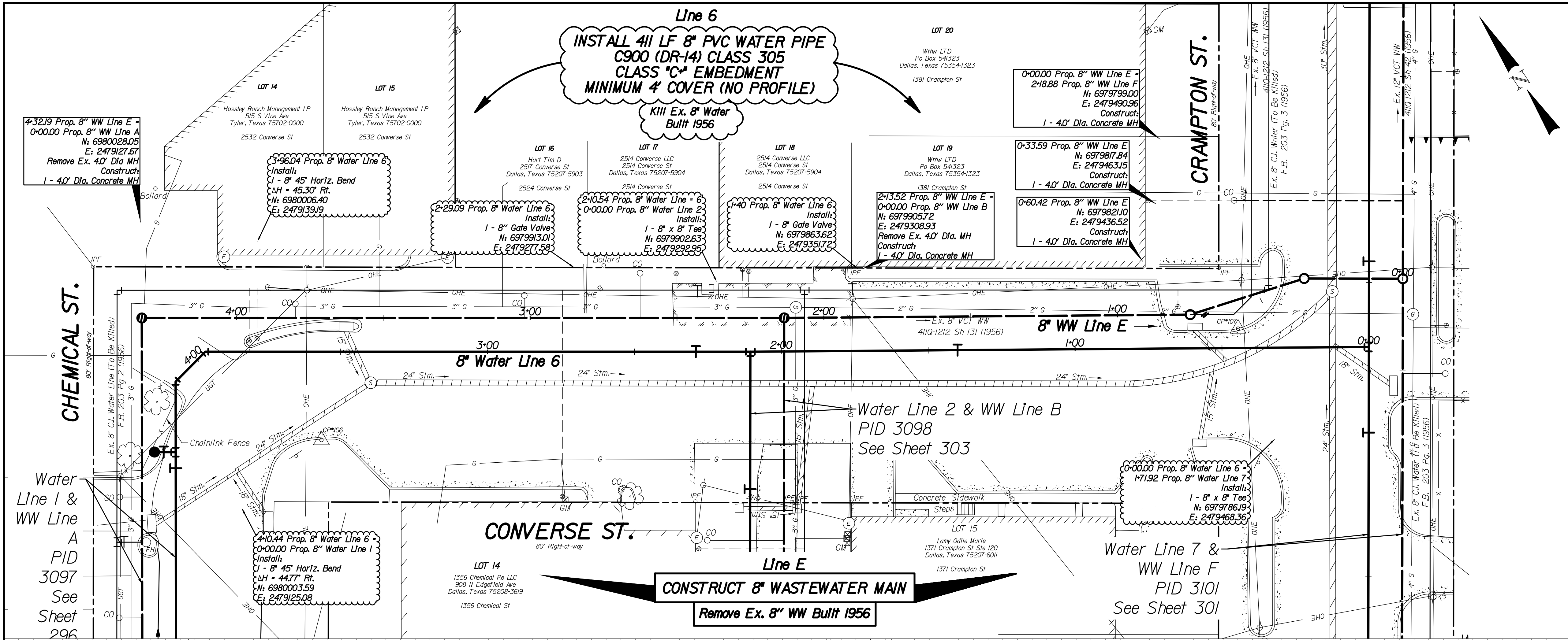
Horizontal Scale: 1" = 20'	
Vertical Scale: 1" = 6'	

REFERENCES	
WATER	34-21W
WASTEWATER	BH F-II

Kimley»Horn
 Texas Registration No. F-938

PID: 3100	CONTRACT NO. 20-239/240
8" WATER & 8" WASTEWATER	
CONANT STREET	
FARRINGTON ST TO CONVERSE ST	
DALLAS WATER UTILITIES	
CITY OF DALLAS, TEXAS	

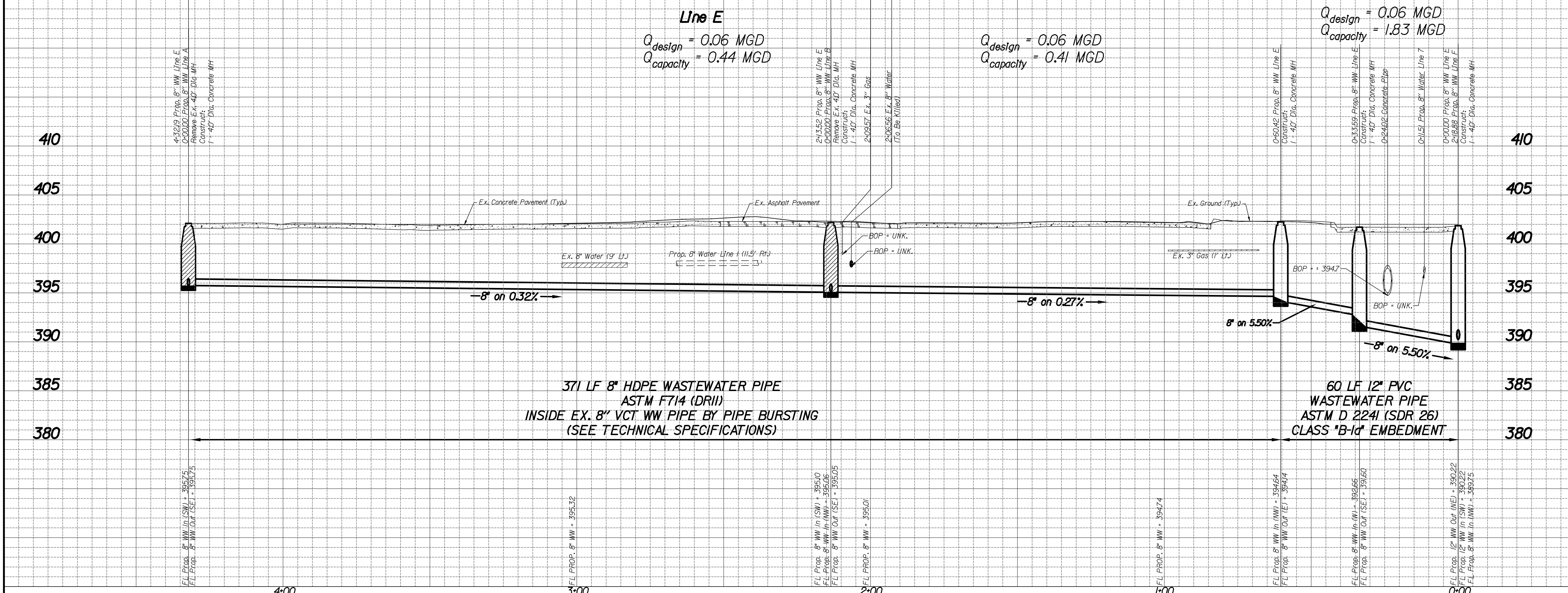
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	MLD	MAY 2020	411Q	1212	299



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 ~ POWER !
Overhead Electric Cables In Area
Contact ONCOR Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

- NOTES:**
- See Sheet 411Q-01.32 SH. 006 For General Notes.
 - The Ground Survey Was Performed By Del-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.
 - Contractor to Locate Parallel Gas Line Prior to Beginning Construction.



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS	
DWU BENCHMARK 044B Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd. on the south side of Medical District Dr. ELEV = 402.17 MAPSCO 45F	
CONTROL POINT *104 - "X" Cut N: 697957.454 E: 2478581.83 ELEV = 402.55	CONTROL POINT *109 - "X" Cut N: 6979374.666 E: 2479749.951 ELEV = 402.19
CONTROL POINT *105 - "X" Cut N: 6979785.991 E: 2479025.162 ELEV = 402.75	CONTROL POINT *110 - "X" Cut N: 6978799.979 E: 2479392.846 ELEV = 402.29
CONTROL POINT *106 - "X" Cut N: 6979816.274 E: 2479155.621 ELEV = 402.43	CONTROL POINT *111 - "X" Cut N: 6978879.405 E: 2479145.169 ELEV = 403.09
CONTROL POINT *107 - "X" Cut N: 6979816.274 E: 2479434.953 ELEV = 402.1	CONTROL POINT *112 - "X" Cut N: 6979277.216 E: 2478728.632 ELEV = 403.4
CONTROL POINT *108 - "X" Cut N: 6979599.513 E: 2479363.473 ELEV = 402.13	CONTROL POINT *113 - "X" Cut N: 6949156.845 E: 2479030.042 ELEV = 468.07

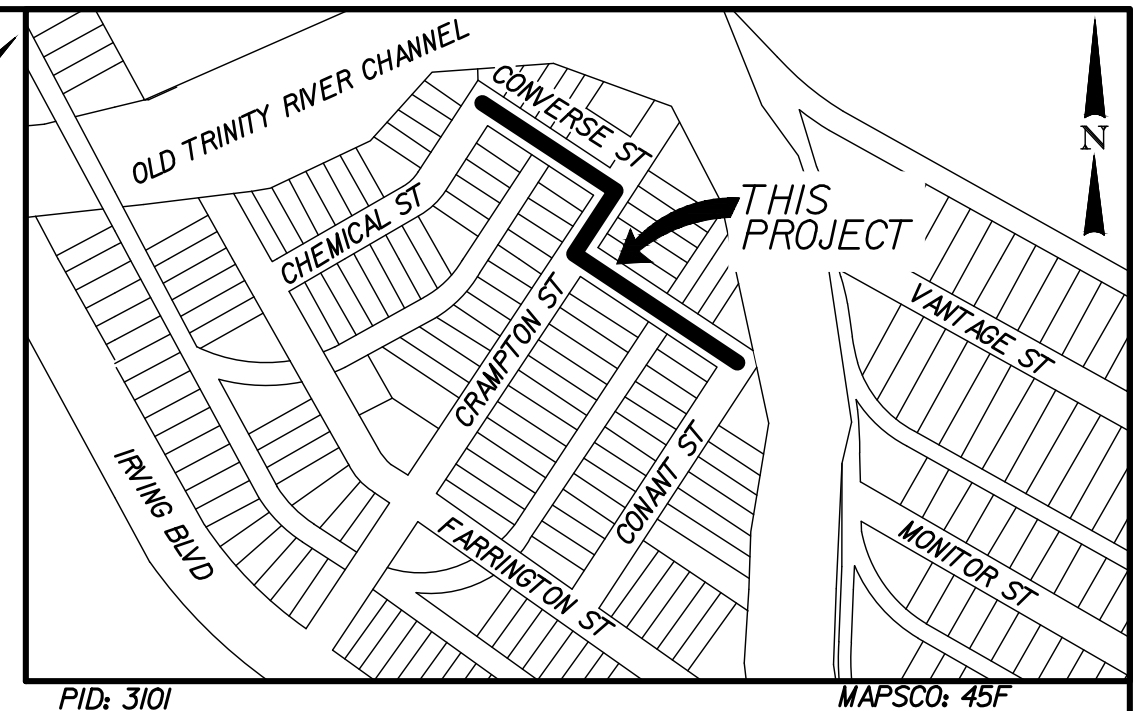
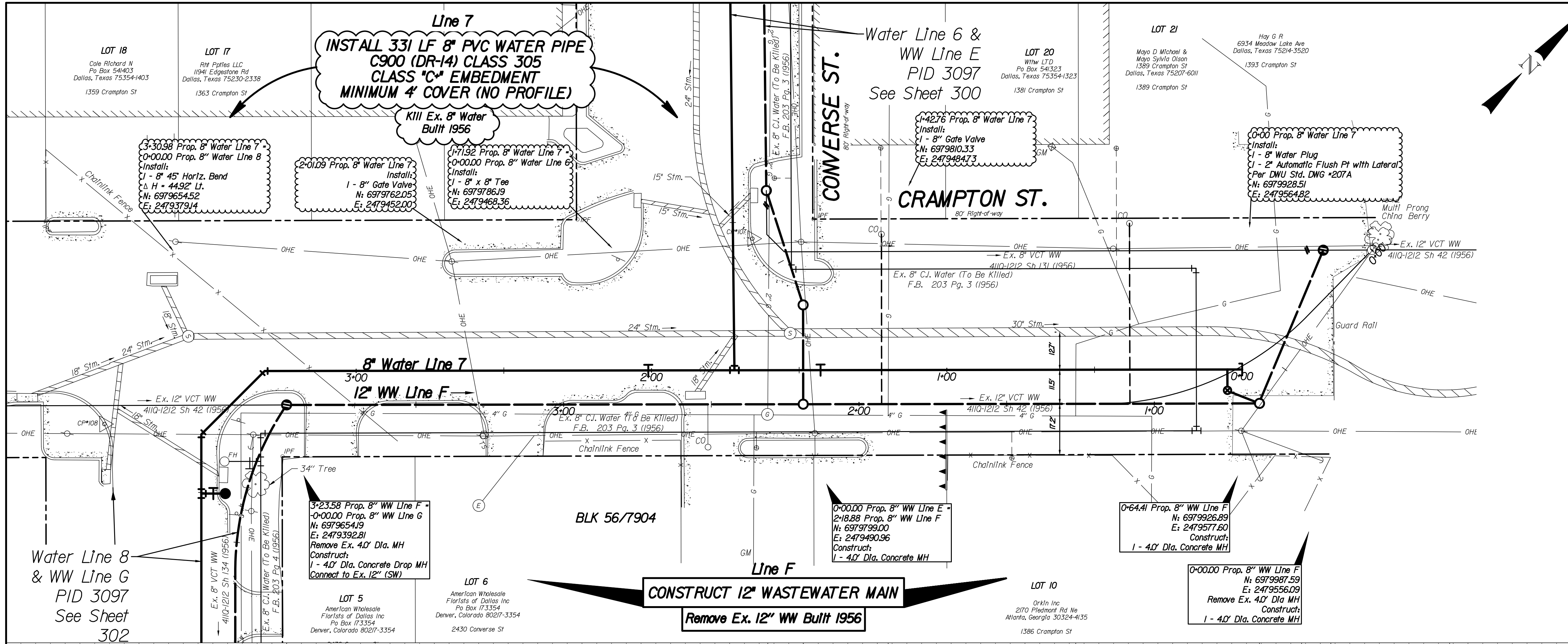
REFERENCES	
WATER	34-21W
WASTEWATER	

Kimley»Horn
Texas Registration No. F-998

PID: 3101 CONTRACT NO. 20-239/240

8" WASTEWATER & 8" WATER
CONVERSE STREET
CHEMICAL ST. TO CRAMPTON ST.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	JDJ	MAY 2020	411Q	1212	300

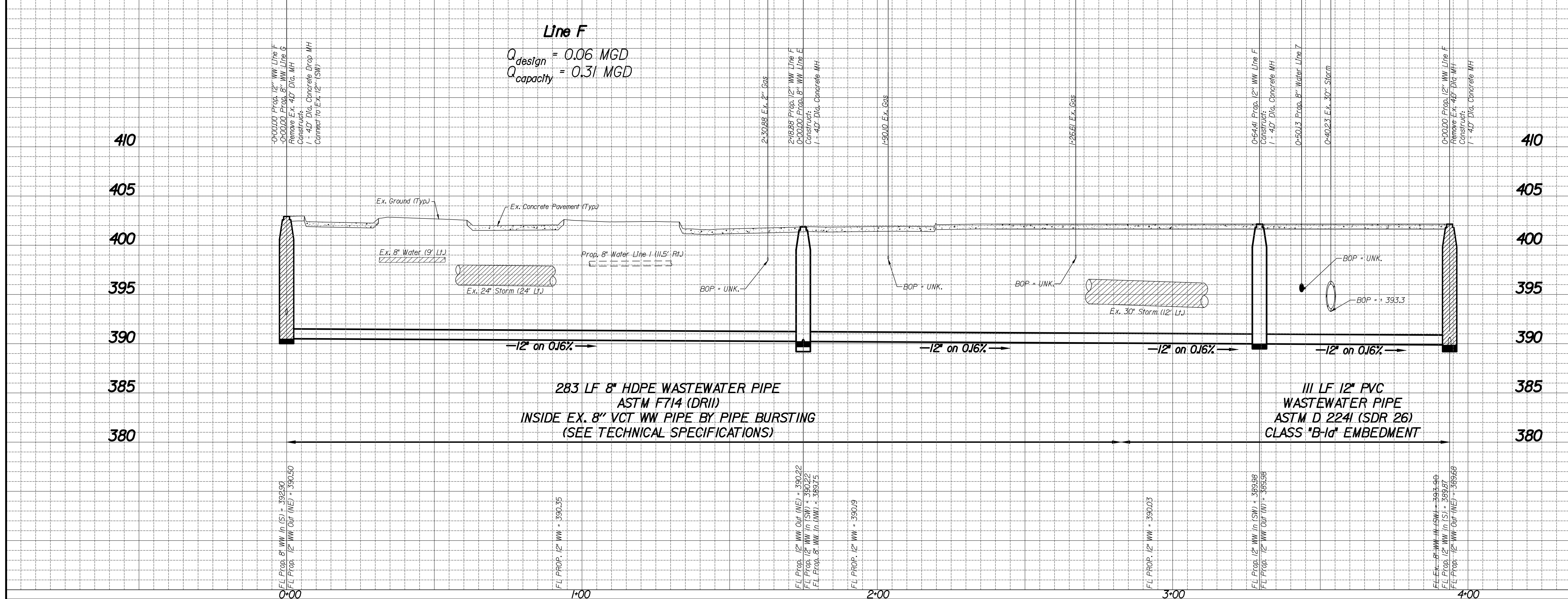


CAUTION ~ GAS !
Underground Gas Main In Area
Contact AT&M Energy Corp. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

CAUTION ~ POWER !
Overhead Electric Cables In Area
Contact ONCOR Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

NOTES:

- See Sheet 410-0132 SH. 006 For General Notes.
- The Ground Survey Was Performed By Del-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.



REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS	
DWU BENCHMARK 044B Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd. on the south side of Medical District Dr. ELEV = 402.17 MAPSCO 45F	
CONTROL POINT *104 - "X" Cut N: 6979374.666 E: 2479749.951 ELEV = 402.19	CONTROL POINT *109 - "X" Cut N: 6979374.666 E: 2479749.951 ELEV = 402.55
CONTROL POINT *105 - "X" Cut N: 6979795.891 E: 2479025.162 ELEV = 402.75	CONTROL POINT *110 - "X" Cut N: 6978799.979 E: 2479392.846 ELEV = 402.29
CONTROL POINT *106 - "X" Cut N: 6979816.274 E: 2479155.621 ELEV = 402.43	CONTROL POINT *111 - "X" Cut N: 6978879.405 E: 2479145.169 ELEV = 403.05
CONTROL POINT *107 - "X" Cut N: 6979816.274 E: 2479434.953 ELEV = 402.1	CONTROL POINT *112 - "X" Cut N: 6979271.216 E: 2478728.632 ELEV = 403.4
CONTROL POINT *108 - "X" Cut N: 6979599.513 E: 2479363.473 ELEV = 402.13	CONTROL POINT *113 - "X" Cut N: 6949156.845 E: 2479030.042 ELEV = 468.07

REFERENCES	
WATER	34-21W
WASTEWATER	

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

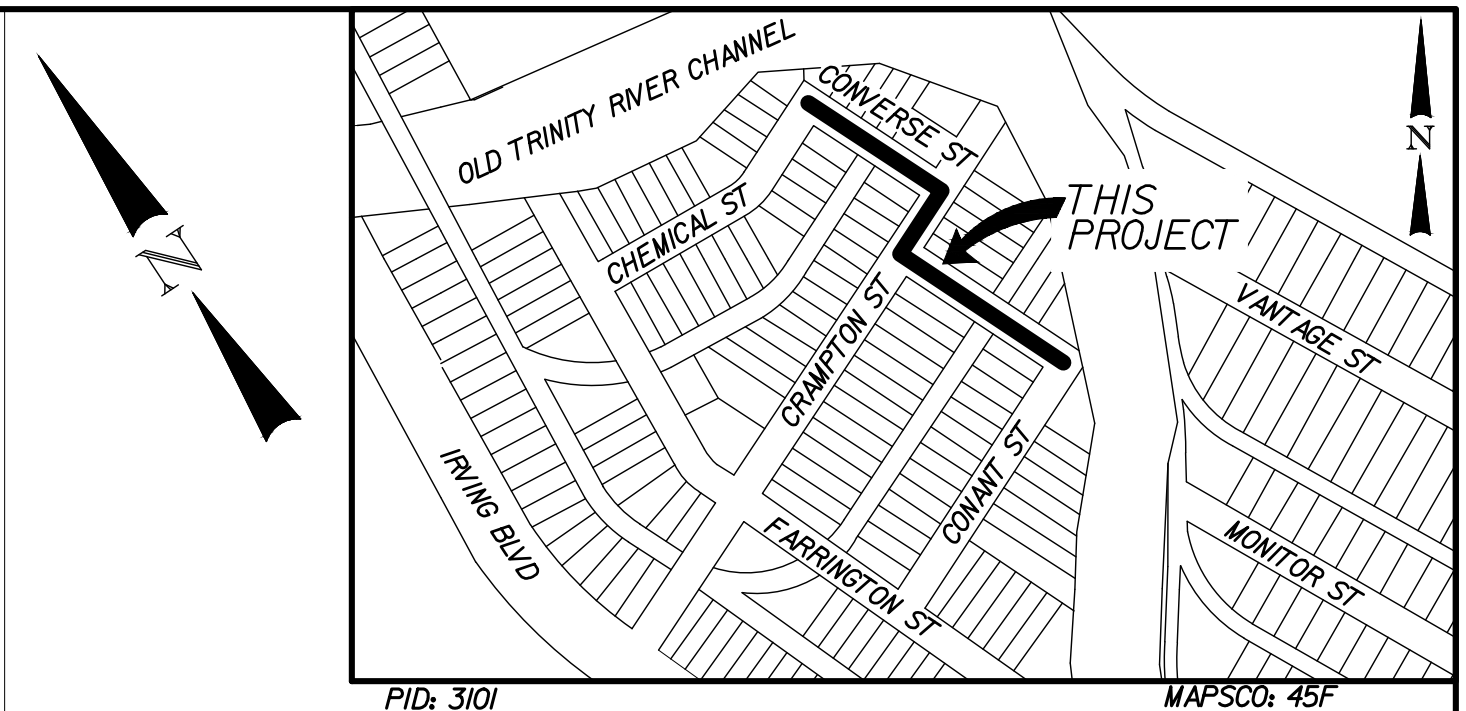
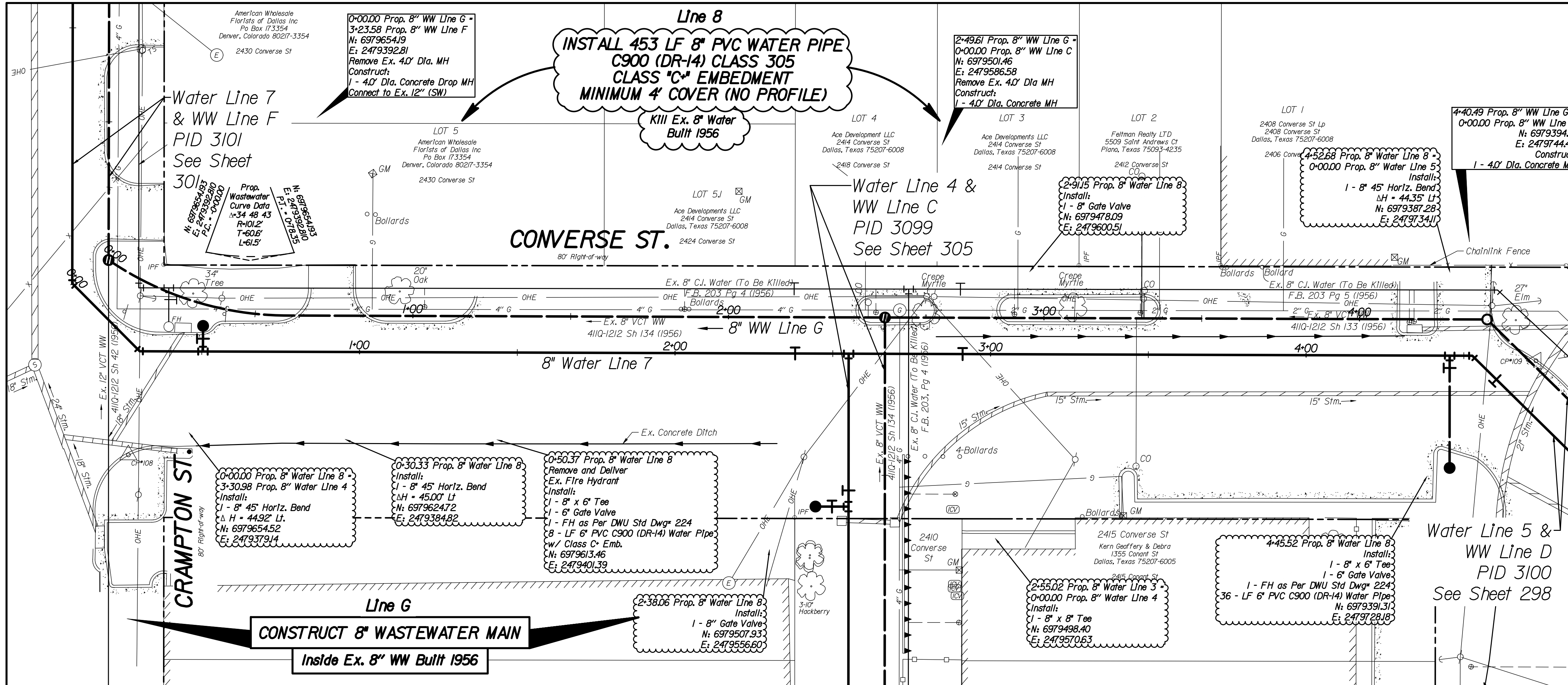
The seal appearing on this document was authorized by Jason A. Snyder, P.E. 123328 on May 20, 2020

Kimley»Horn
Texas Registration No. F-988

PID: 3101 CONTRACT NO. 20-239/240

12" WASTEWATER & 8" WATER
CONVERSE STREET
CRAMPTON STREET
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	JDJ	MAY 2020	411Q	1212	301

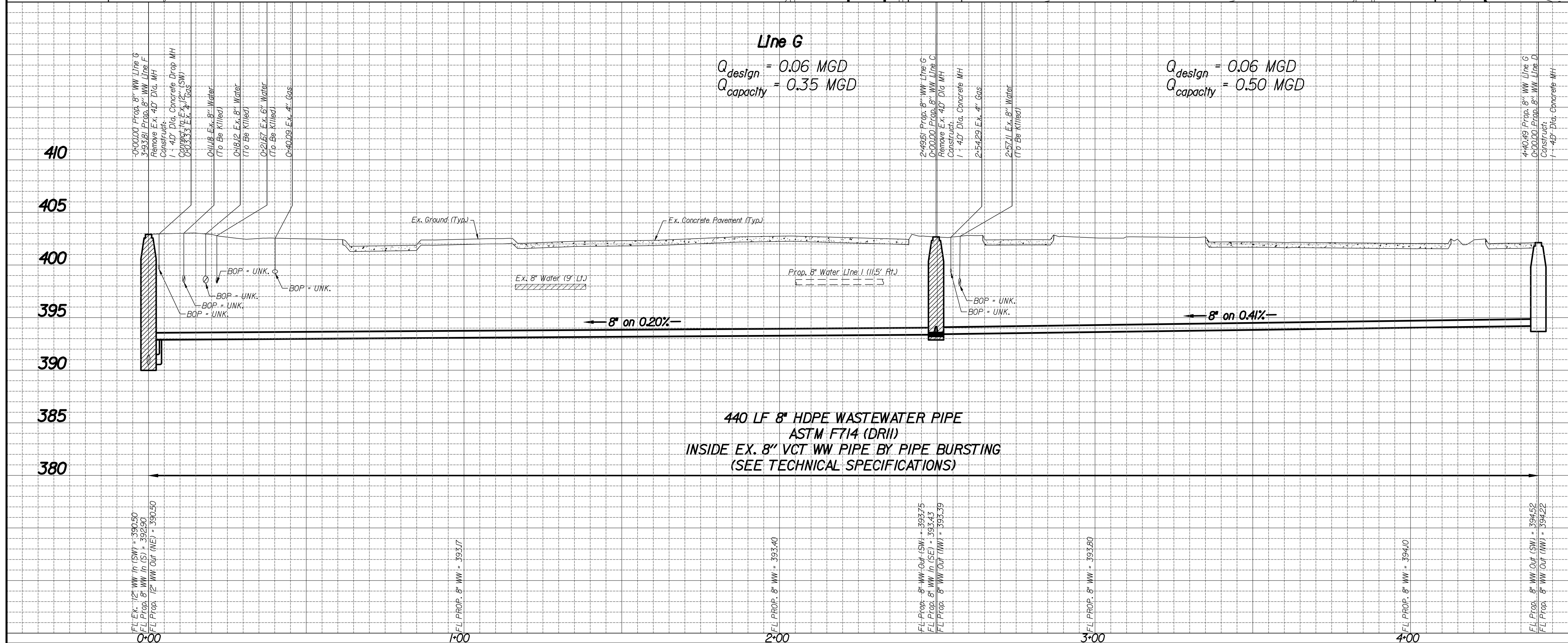


CAUTION ~ GAS !
 Underground Gas Main In Area
 Contact AT&M Energy Corp. Two Working Days Prior To Construction.
 Tele: 1-800-344-8377/1-800-545-6005

CAUTION ~ POWER !
 Overhead Electric Cables In Area
 Contact ONCOR Two Working Days Prior To Construction.
 Tele: 1-800-344-8377/888-313-4747

NOTES:

- See Sheet 410Q-01.32 SH. 006 For General Notes.
- The Ground Survey Was Performed By Del-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.

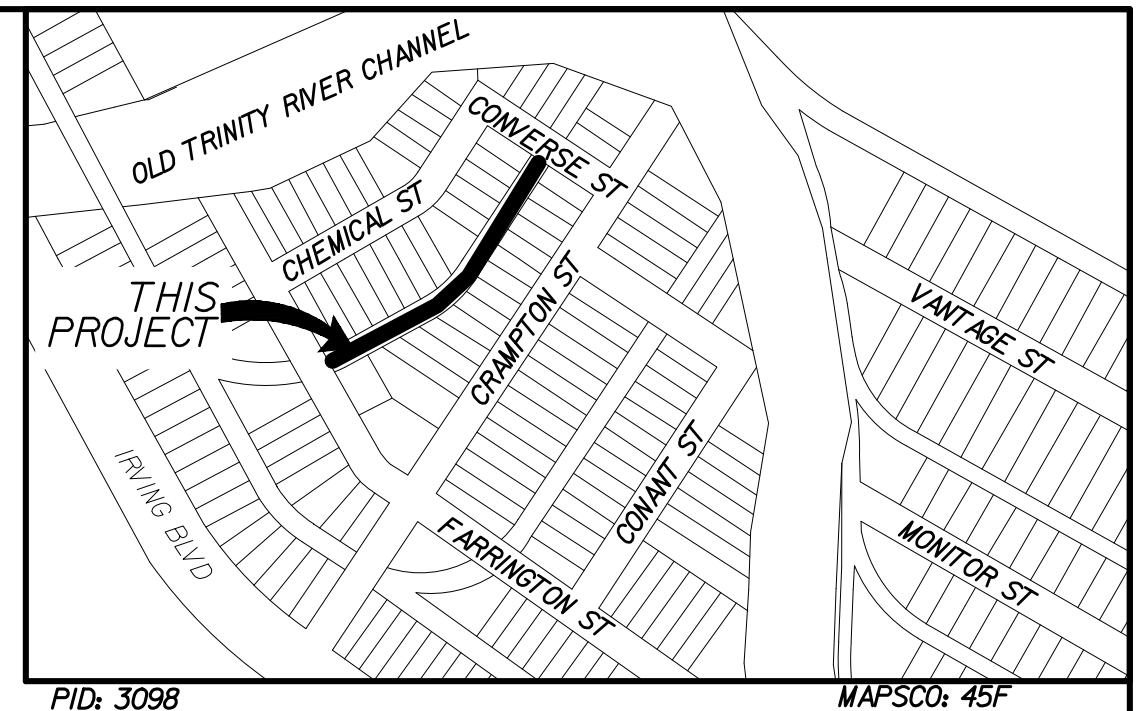
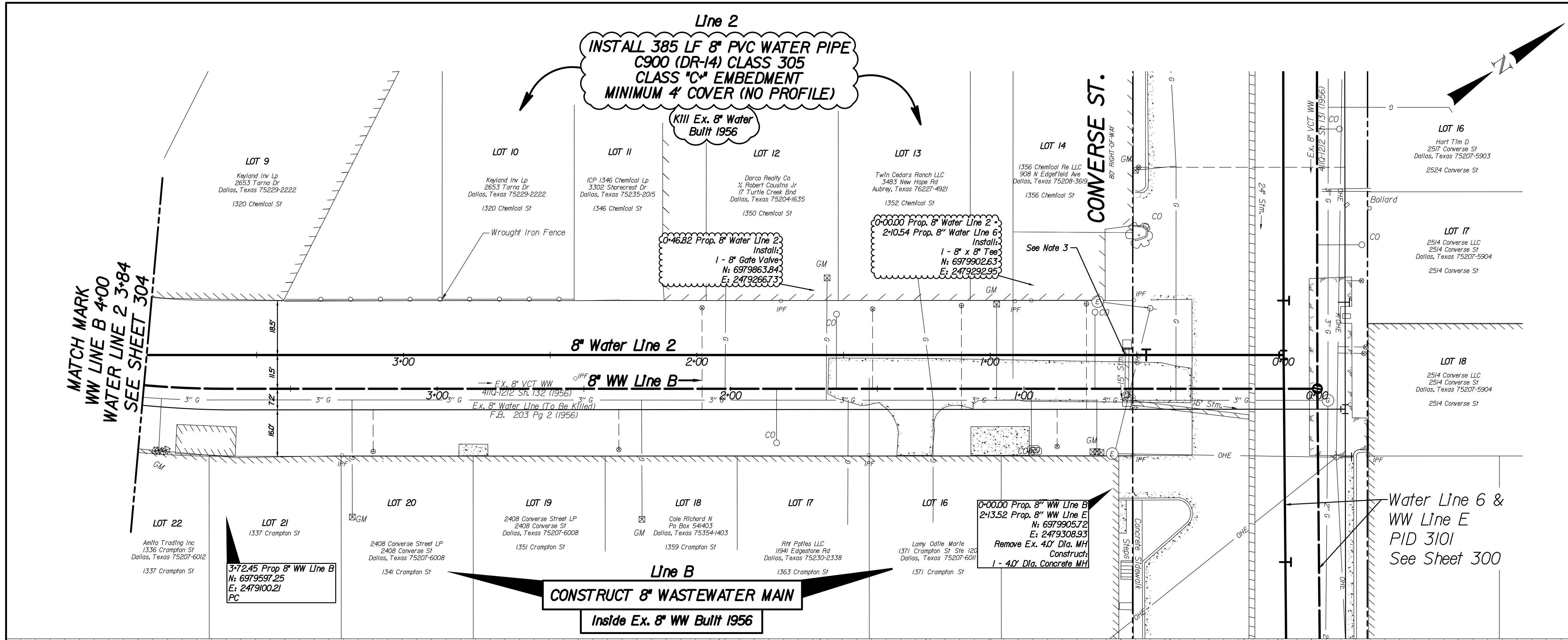


REVISIONS			
REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS	
DWU BENCHMARK 044B Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd. on the south side of Medical District Dr. ELEV = 402.17 MAPSCO 45F	
CONTROL POINT *104 - "X" Cut N: 6979557.454 E: 2478581.83 ELEV = 402.55	CONTROL POINT *109 - "X" Cut N: 6979374.666 E: 2479749.951 ELEV = 402.19
CONTROL POINT *105 - "X" Cut N: 6979795.991 E: 2479025.162 ELEV = 402.75	CONTROL POINT *110 - "X" Cut N: 6978799.979 E: 2479392.846 ELEV = 402.29
CONTROL POINT *106 - "X" Cut N: 6979816.274 E: 2479155.621 ELEV = 402.43	CONTROL POINT *111 - "X" Cut N: 6978879.405 E: 2479145.169 ELEV = 403.09
CONTROL POINT *107 - "X" Cut N: 6979816.274 E: 2479434.953 ELEV = 402.1	CONTROL POINT *112 - "X" Cut N: 6979277.216 E: 2478728.632 ELEV = 403.4
CONTROL POINT *108 - "X" Cut N: 6979599.513 E: 2479363.473 ELEV = 402.13	CONTROL POINT *113 - "X" Cut N: 6949156.845 E: 2479030.042 ELEV = 468.07

REFERENCES	
WATER	34-21W
WASTEWATER	

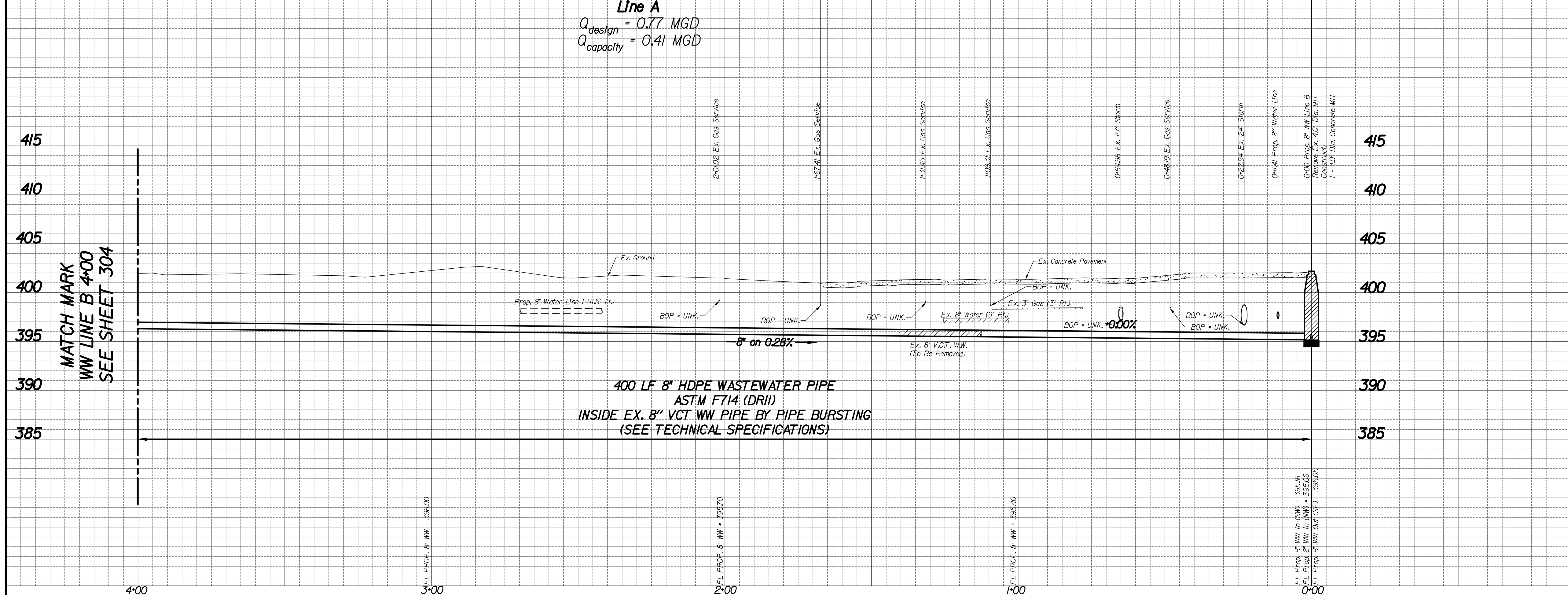
Kimley»Horn Texas Registration No. F-998	
PID: 3101 CONTRACT NO. 20-239/240	
8" WASTEWATER & 8" WATER CONVERSE STREET CRAMPTON ST. TO CONANT ST. DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS	
DESIGN	JAS
DRAWN	JDJ
DATE	MAY 2020
FILE	41IQ
NUMBER	1212
SHEET	302



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 ~ POWER !
 Overhead Electric Cables In Area
 Contact ONCOR Two Working Days Prior To Construction.
 Tele: 1-800-344-8377/888-313-4747

- NOTES:**
- See Sheet 410-0132 SH. 006 For General Notes.
 - The Ground Survey Was Performed By Del-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.
 - Remove and Replace 15" RCP Storm Line and Inlet. No Separate Pay Item.



REV NO.	DATE	REVISIONS DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

DWU BENCHMARK 044B
 Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd. on the south side of Medical District Dr.
 ELEV = 402.17 MAPSCO 45F

CONTROL POINT *104 - "X" Cut N: 6979557.454 E: 2478581.83 ELEV = 402.55	CONTROL POINT *109 - "X" Cut N: 6979374.666 E: 2479749.951 ELEV = 402.19
CONTROL POINT *105 - "X" Cut N: 6979785.891 E: 2479025.162 ELEV = 402.75	CONTROL POINT *110 - "X" Cut N: 6978799.979 E: 2479392.846 ELEV = 402.29
CONTROL POINT *106 - "X" Cut N: 6979816.274 E: 2479155.621 ELEV = 402.43	CONTROL POINT *111 - "X" Cut N: 6978879.405 E: 2479145.169 ELEV = 403.09
CONTROL POINT *107 - "X" Cut N: 6979816.274 E: 2479434.953 ELEV = 402.1	CONTROL POINT *112 - "X" Cut N: 6979277.216 E: 2478728.632 ELEV = 403.4
CONTROL POINT *108 - "X" Cut N: 6979599.513 E: 2479363.473 ELEV = 402.13	CONTROL POINT *113 - "X" Cut N: 6949156.845 E: 2479030.042 ELEV = 468.07

REFERENCES

WATER
 34-21W, 410-1212 SH. 4, 128-136, 42

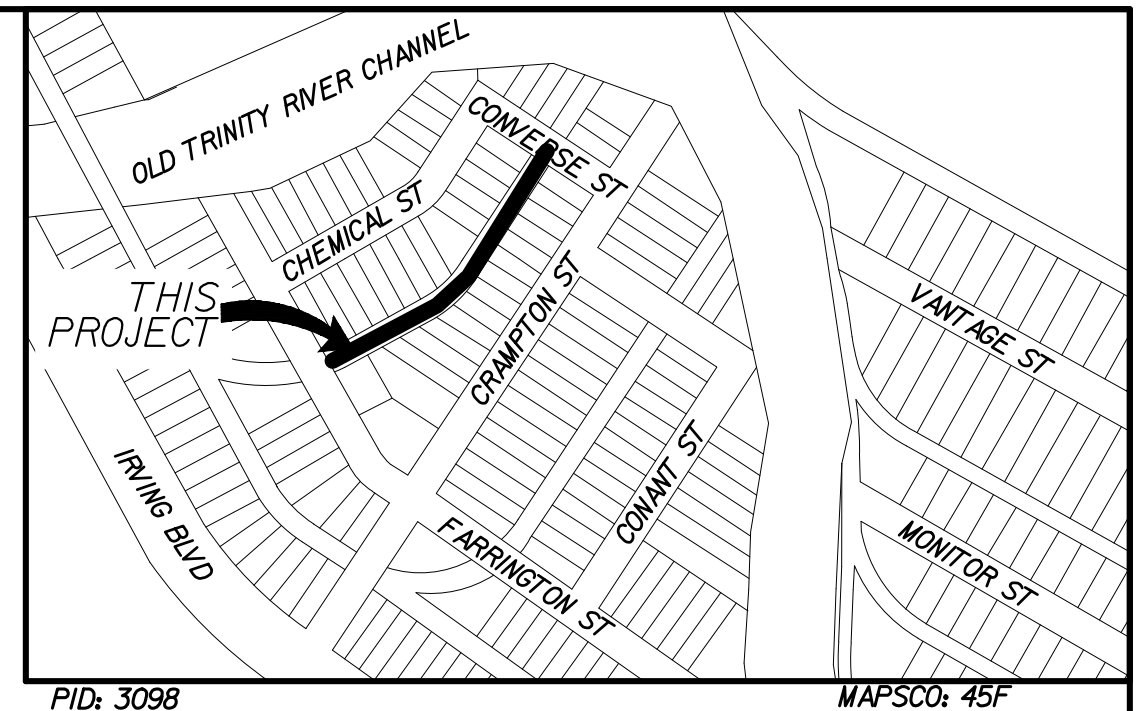
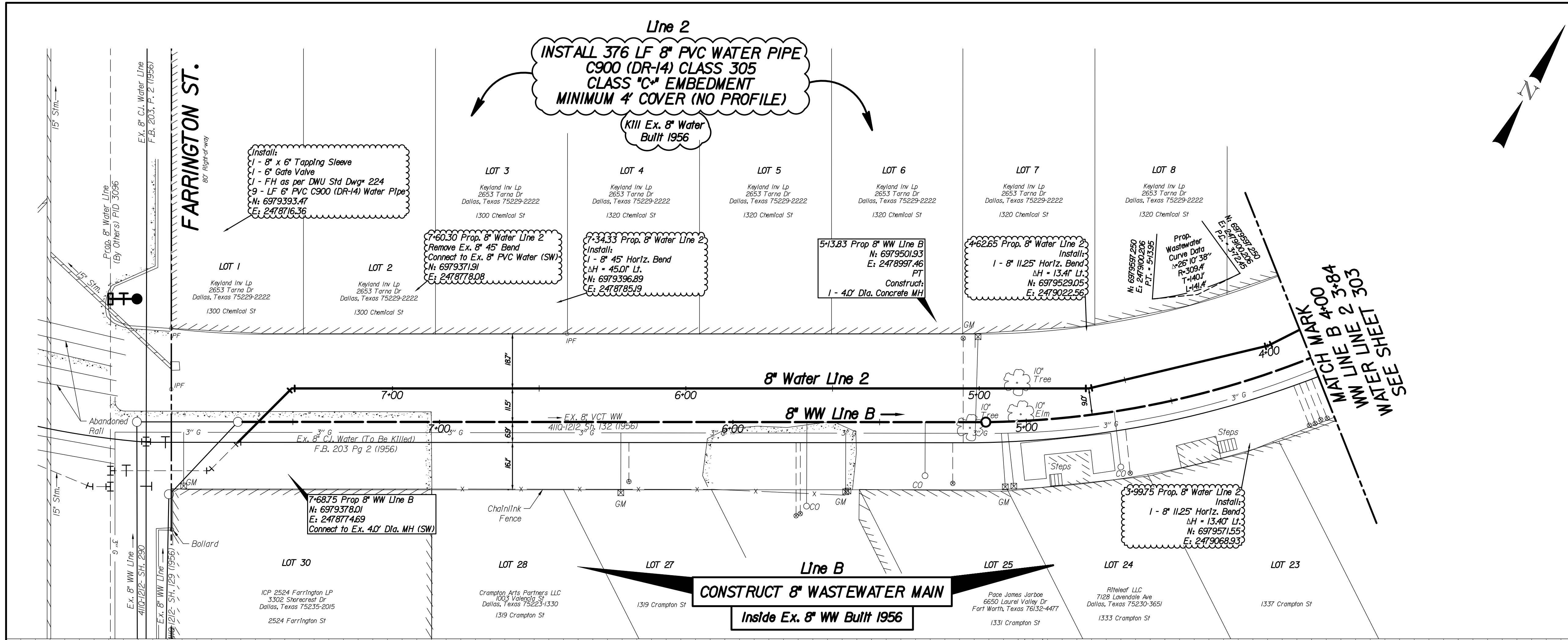
WASTEWATER
 BH F-II, 410-1212 SH. 4, 128-136, 42

Kimley»Horn
 Texas Registration No. F-398

PID: 3098 CONTRACT NO. 20-239/240

8" WATER & 8" WASTEWATER
 ESMT BTWN CHEMICAL & CRAMPTON
 FARRINGTON ST. TO CONVERSE ST.
 DALLAS WATER UTILITIES
 CITY OF DALLAS, TEXAS

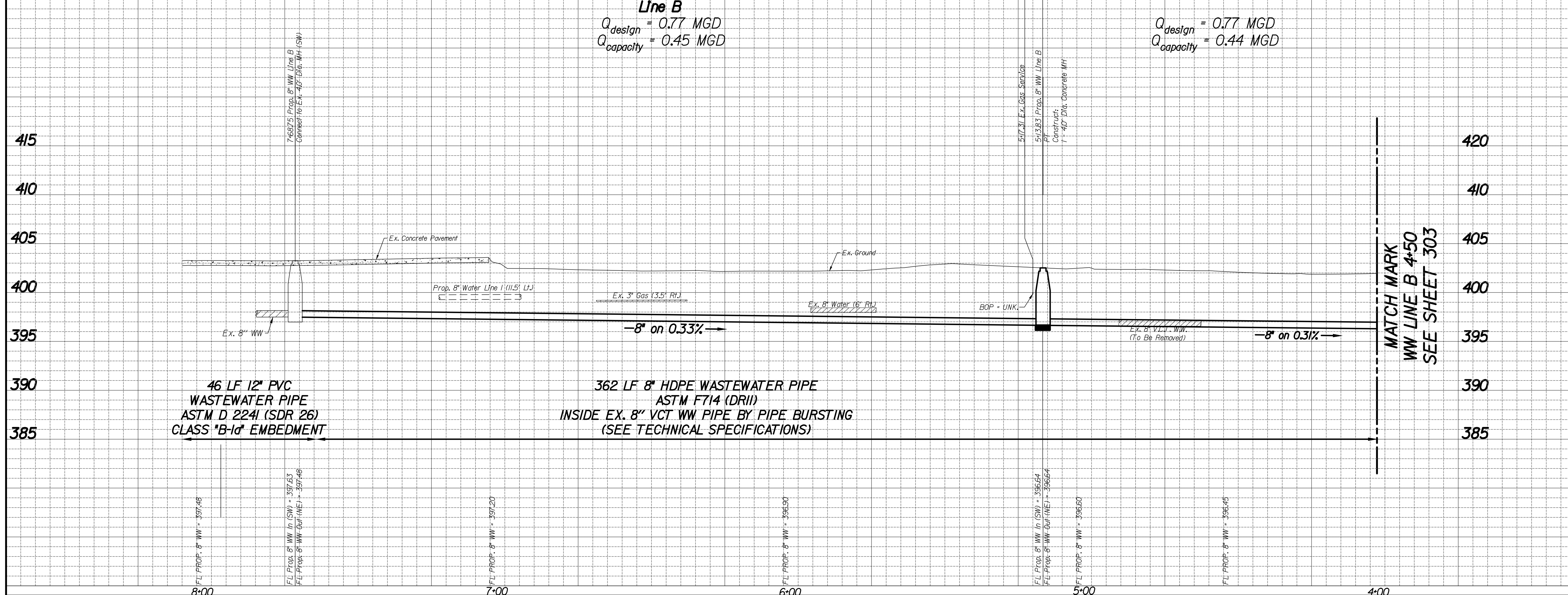
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	GK	MAY 2020	411Q	1212	303



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 ~ POWER !
Overhead Electric Cables In Area
Contact ONCOR Two Working
Days Prior To Construction.
Tele: 1-800-344-8377/888-313-4747

- NOTES:
- See Sheet 410-0132 SH. 006 For General Notes.
 - The Ground Survey Was Performed By Dal-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.



REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

DWU BENCHMARK 044B
Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd. on the south side of Medical District Dr.
ELEV = 402.17 MAPSCO 45F

CONTROL POINT *104 - "X" Cut N: 6979557.454 E: 2478581.83 ELEV = 402.55	CONTROL POINT *109 - "X" Cut N: 6979374.666 E: 2479749.951 ELEV = 402.19
CONTROL POINT *105 - "X" Cut N: 6979785.891 E: 2479025.162 ELEV = 402.75	CONTROL POINT *110 - "X" Cut N: 6978799.979 E: 2479392.846 ELEV = 402.29
CONTROL POINT *106 - "X" Cut N: 6979816.274 E: 2479155.621 ELEV = 402.43	CONTROL POINT *111 - "X" Cut N: 6978879.405 E: 2479145.169 ELEV = 403.09
CONTROL POINT *107 - "X" Cut N: 6979816.274 E: 2479434.953 ELEV = 402.1	CONTROL POINT *112 - "X" Cut N: 6979277.216 E: 2478728.632 ELEV = 403.4
CONTROL POINT *108 - "X" Cut N: 6979599.513 E: 2479363.473 ELEV = 402.13	CONTROL POINT *113 - "X" Cut N: 6949156.845 E: 2479030.042 ELEV = 468.07

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

REFERENCES

WATER	34-21W
WASTEWATER	

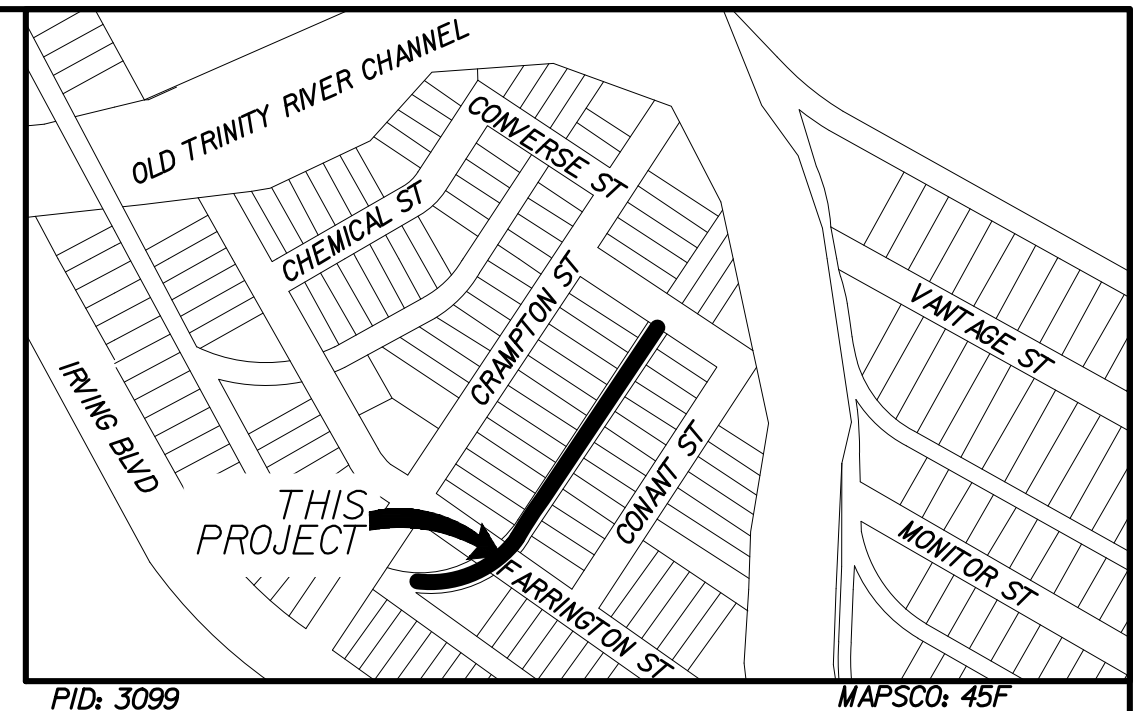
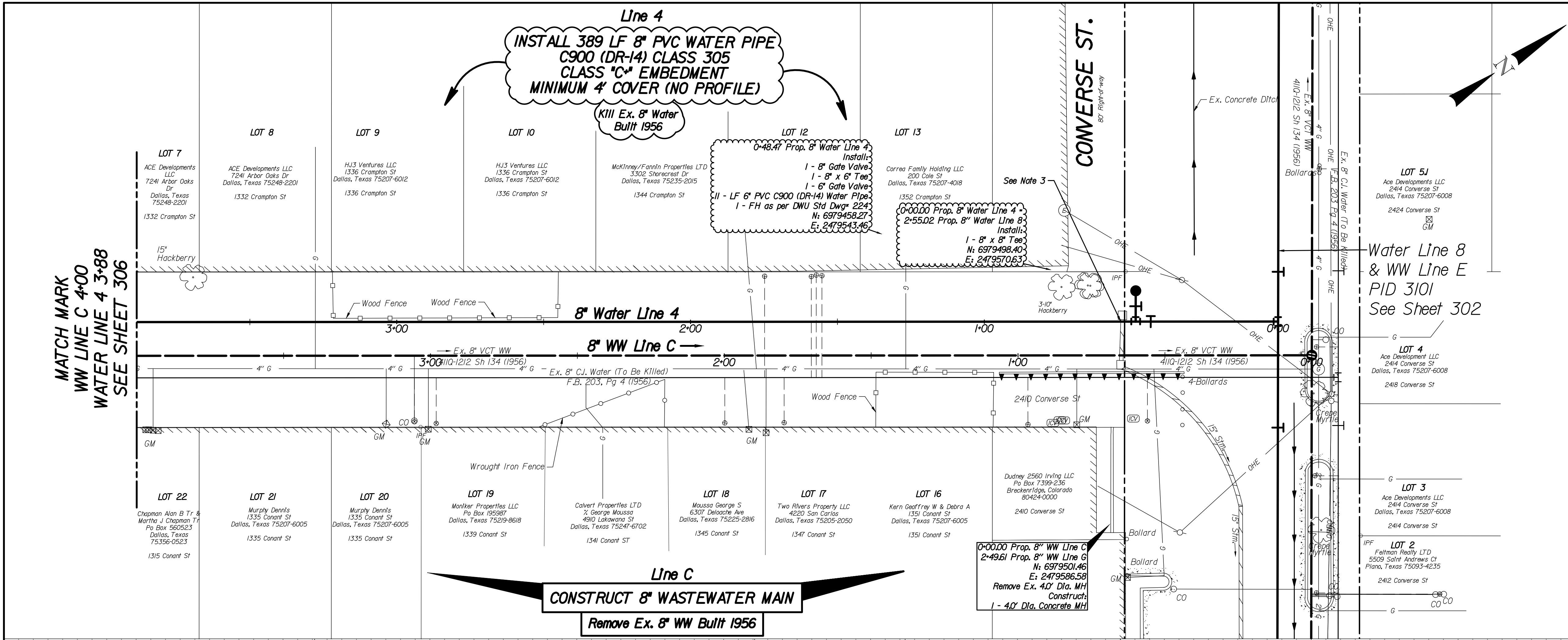
The seal appearing on this document was authorized by Jason A. Snyder, P.E. 123328 on May 20, 2020

Kimley»Horn
Texas Registration No. F-938

PID: 3098 CONTRACT NO. 20-239/240

8" WATER & 8" WASTEWATER
ESMT BTWN CHEMICAL & CRAMPTON
FARRINGTON ST. TO CONVERSE ST.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

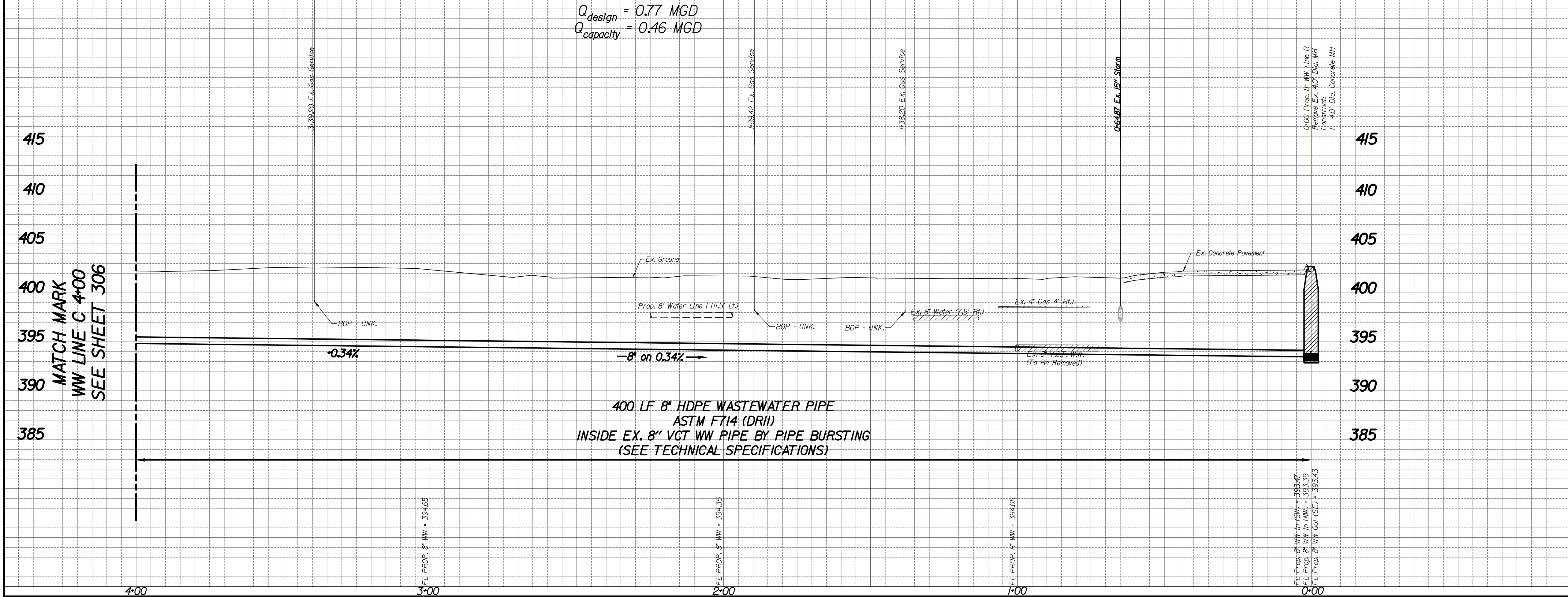
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	GK	MAY 2020	411Q	1212	304



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 ~ POWER !
 Overhead Electric Cables In Area
 Contact CONCOR Two Working Days Prior To Construction.
 Tele: 1-800-344-8377/888-313-4747

- NOTES:**
- See Sheet 411Q-0132 SH. 006 for General Notes.
 - The Ground Survey Was Performed By Del-Tech Engineering, Inc. On January 14, 2020. The Design Relies On The Assumptions Provided By The Survey.
 - Remove and Replace 18" RCP Storm Line and Inlet. No Separate Pay Item.



REV NO.	DATE	DESCRIPTION	BY

BENCHMARKS & CONTROL POINTS

DWU BENCHMARK 044B
 Standard Water Department Square Cut Benchmark on top of curb Inlet 75 LF east of Irving Blvd. on the south side of Medical District Dr.
 ELEV = 402.17 MAPSCO 45F

CONTROL POINT *104 - "X" Cut N: 6979557.454 E: 2478581.83 ELEV = 402.55 CONTROL POINT *105 - "X" Cut N: 6979785.891 E: 2479025.162 ELEV = 402.75 CONTROL POINT *106 - "X" Cut N: 6979816.274 E: 2479155.621 ELEV = 402.43 CONTROL POINT *107 - "X" Cut N: 6979816.274 E: 2479434.953 ELEV = 402.1 CONTROL POINT *108 - "X" Cut N: 6979599.513 E: 2479363.473 ELEV = 402.13	CONTROL POINT *109 - "X" Cut N: 6979374.666 E: 2479749.951 ELEV = 402.19 CONTROL POINT *110 - "X" Cut N: 6978799.979 E: 2479392.846 ELEV = 402.29 CONTROL POINT *111 - "X" Cut N: 6978879.405 E: 2479145.169 ELEV = 403.09 CONTROL POINT *112 - "X" Cut N: 6979277.216 E: 2478728.632 ELEV = 403.4 CONTROL POINT *113 - "X" Cut N: 6949156.845 E: 2479030.042 ELEV = 468.07
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Horizontal Scale: 1" = 20'
 Vertical Scale: 1" = 6'

REFERENCES
 WATER
 34-21W, 411Q-1212 SH. 4, 128-136, 42
 WASTEWATER
 BH F-II, 411Q-1212 SH. 4, 128-136, 42

Kimley»Horn
 Texas Registration No. F-988

PID: 3099 CONTRACT NO. 20-239/240

8" WATER & 8" WASTEWATER
ESMT BTWN CRAMPTON & CONANT
FARRINGTON ST. TO CONVERSE ST.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
JAS	GK	MAY 2020	411Q	1212	305