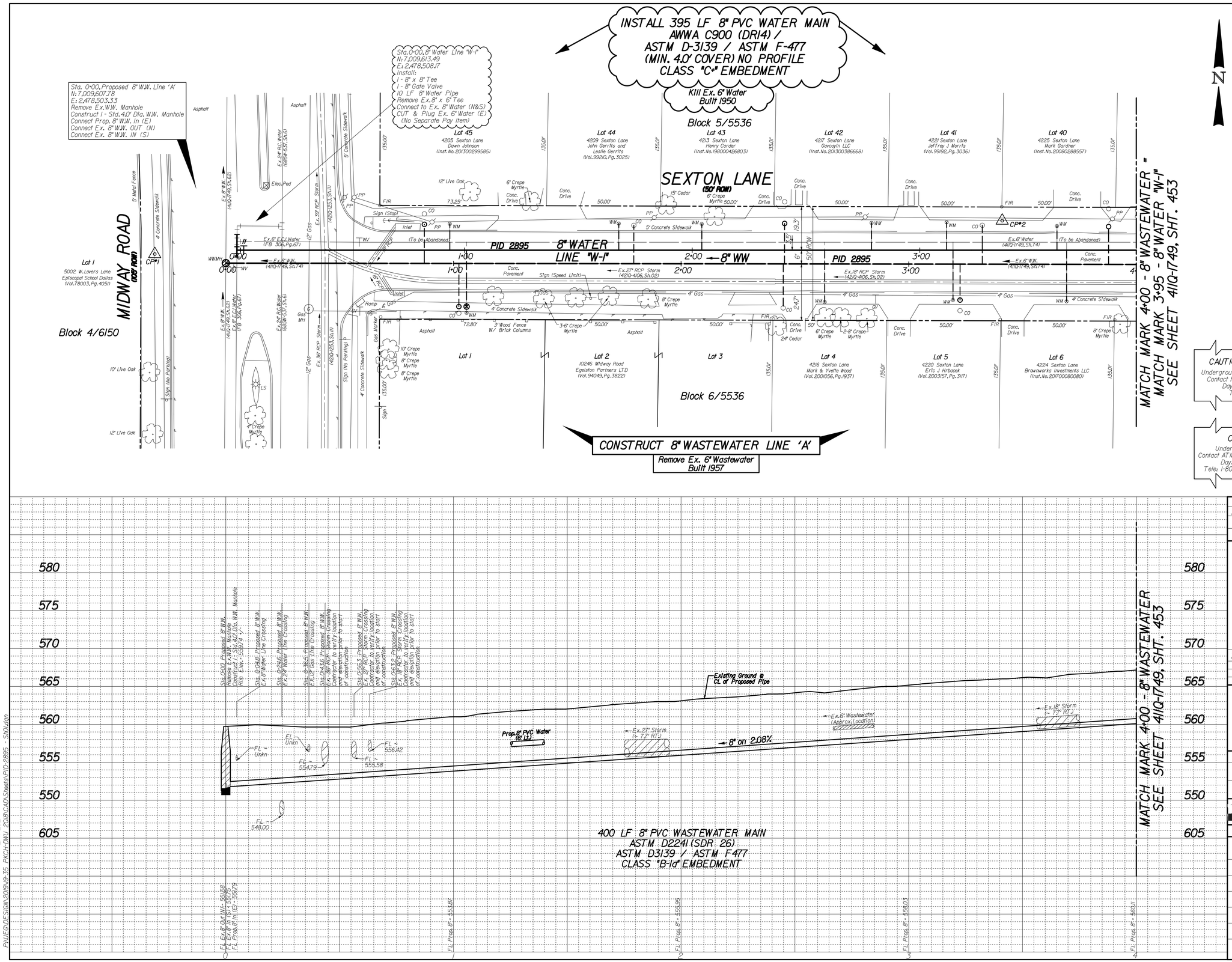

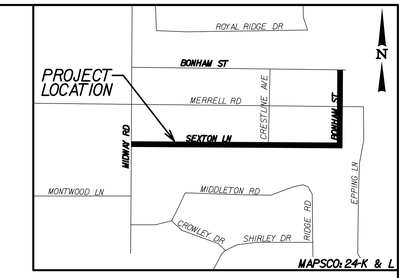

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REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			

BENCHMARKS & CONTROL POINTS

BENCHMARK • 24-K-7S
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE NOSE OF MEDIAN SOUTH SIDE OF THE INTERSECTION AT CENTERLINE OF MIDWAY ROAD, 42 FEET SOUTH OF THE CENTERLINE OF MERRELL ROAD
ELEV = 559.20'

BENCHMARK • 24-K-6S
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ELEV = 566.88'

Point	Northing	Easting	Elev.	Description
1	7,009,611.53	2,478,472.08	559.46'	"X" CUT
2	7,009,628.83	2,478,844.26	566.39'	"X" CUT
3	7,009,588.69	2,479,191.30	573.71'	"X" CUT

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

REFERENCES
WATER
19-21W
WASTEWATER
19-21S

STATE OF TEXAS
FAISAL S. SYED
84833
LICENSED PROFESSIONAL ENGINEER
2.05.2021

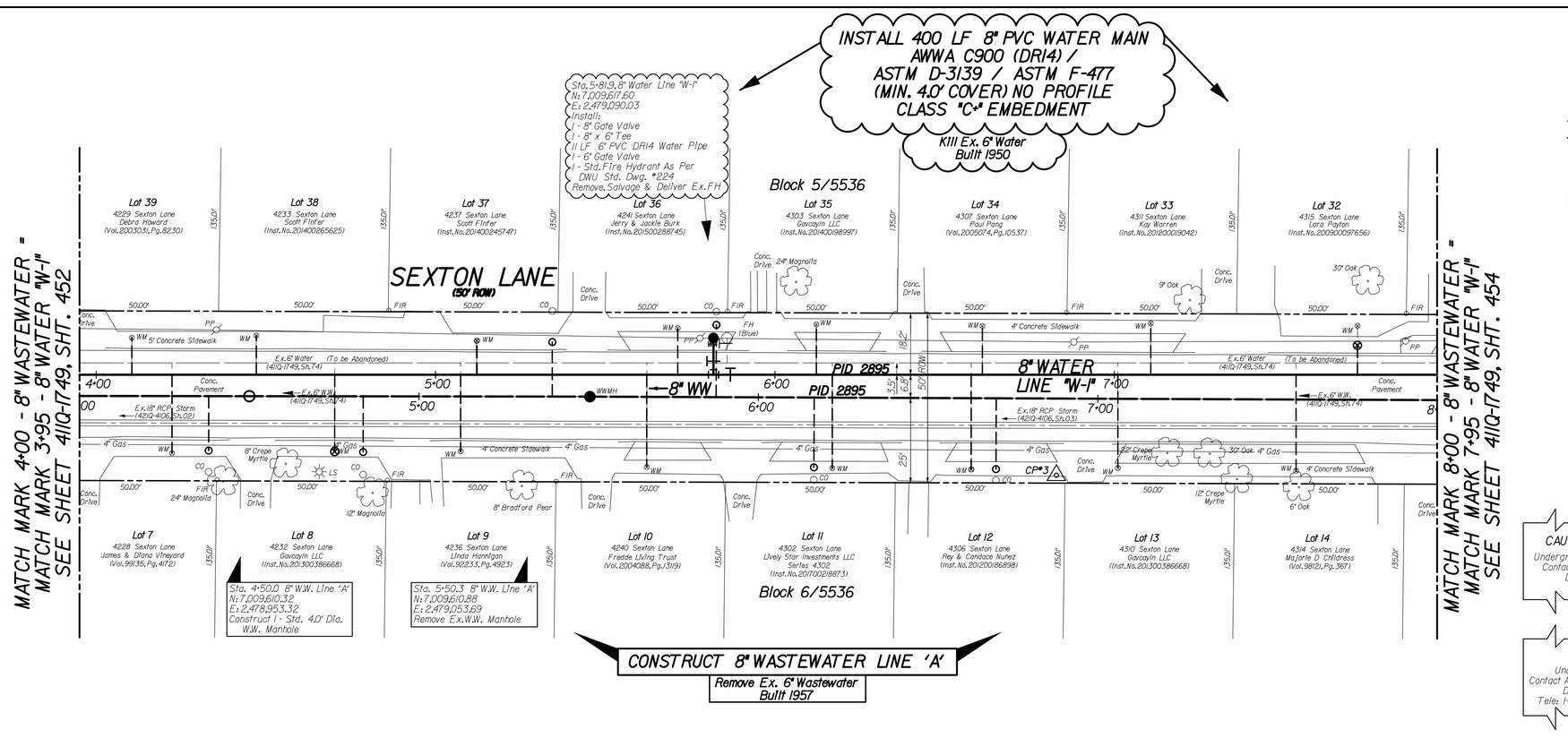
Pacheco Koch
UEG urban engineers group
167 turtle creek blvd.
ste a dallas, texas 75207
(214) 252-1600 p
FIRM REGISTRATION No: F5332

CONTRACT NO. 21-049/050 | PID • 2895

8" WASTEWATER & 8" WATER LINE
SEXTON LANE
MIDWAY ROAD TO MERRELL ROAD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	411Q	1749	452

P:\UEG\DESIGN 2019\19-35 PKCH-DWU 2018\CAD\Sheets\PID-2895 - SXD.dgn
2/1/2021



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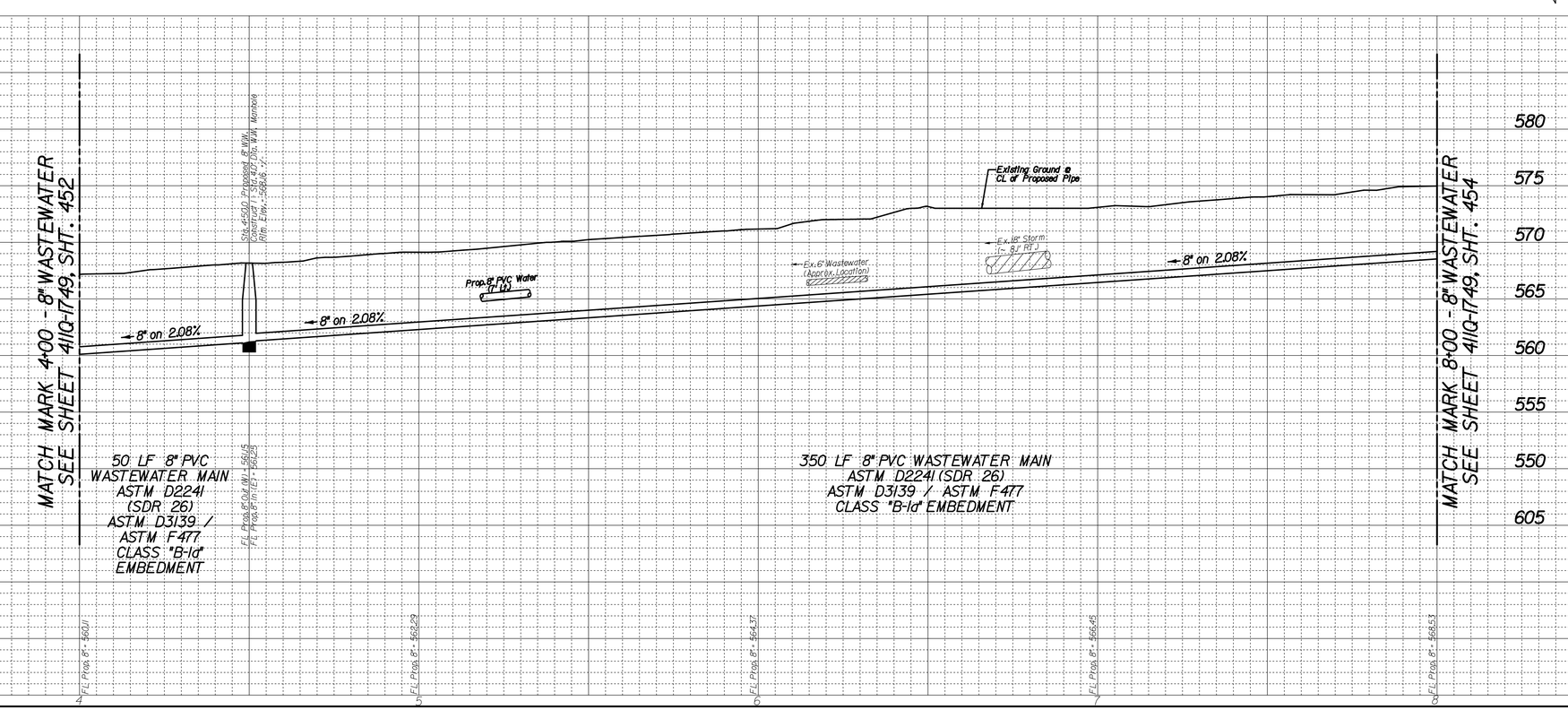

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2/1/2021

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			

BENCHMARKS & CONTROL POINTS

BENCHMARK # 24-K-7S
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WATER
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WASTEWATER
19-21S

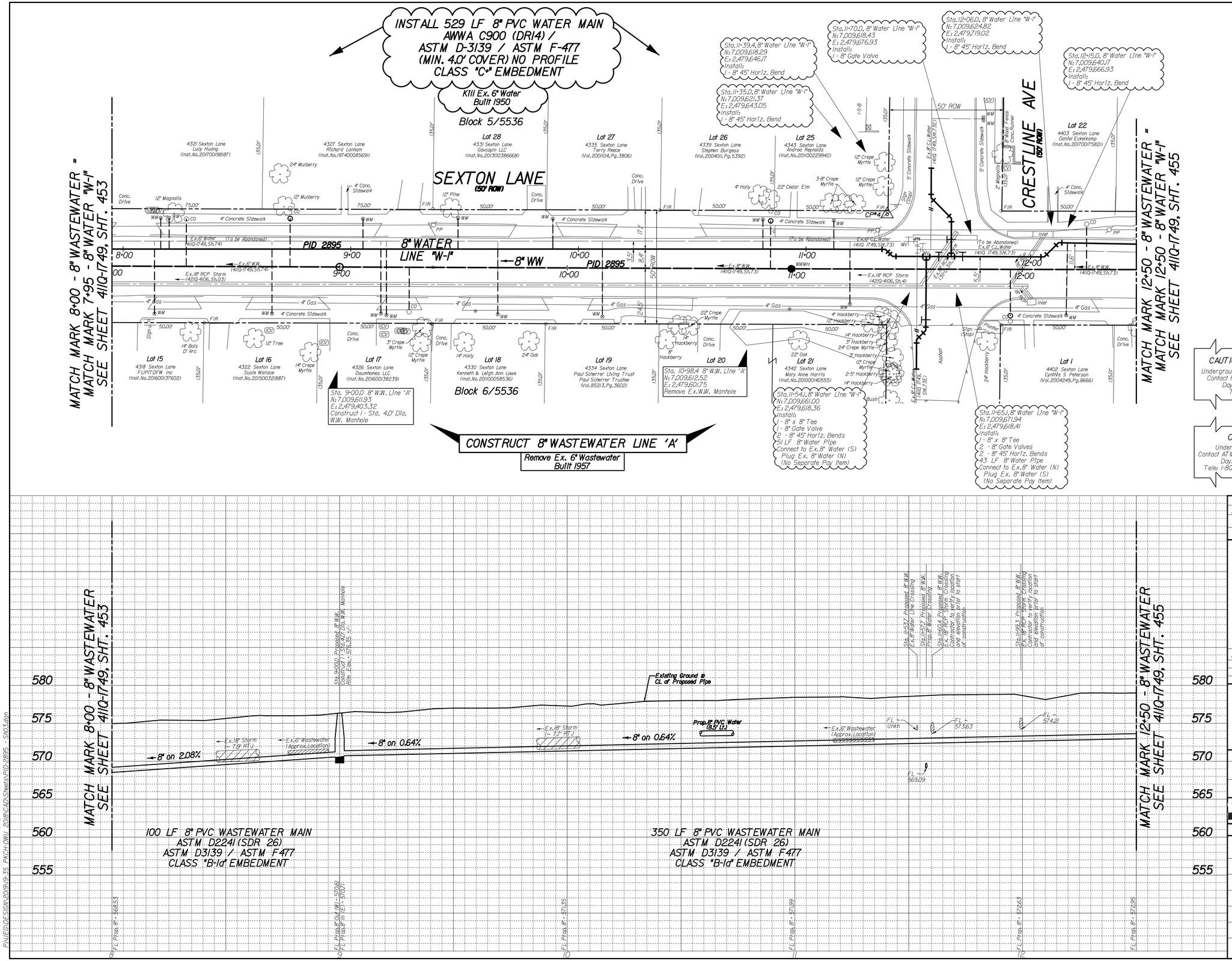
STATE OF TEXAS
FAISAL S. SYED
84833
PROFESSIONAL ENGINEER
Feb 2021

Pacheco Koch
UEG urban engineers group
167 turtle creek blvd,
ste a dallas, texas 75207
(214) 252-1600 p
FIRM REGISTRATION No: F5332

CONTRACT NO. 21-049/050 | PID # 2895

8" WASTEWATER & 8" WATER LINE
SEXTON LANE
MIDWAY ROAD TO MERRELL ROAD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	411Q	1749	453



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STATE OF TEXAS
FAISAL S. SYED
84833
LICENSED PROFESSIONAL ENGINEER
PM 12 04/09/22
12.05.2021

REFERENCES
WATER
19-21W
WASTEWATER
19-21S

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167 turtle creek blvd,
ste a dallas, texas 75207
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FIRM REGISTRATION No: F5332

CONTRACT NO. 21-049/050 | PID • 2895

8" WASTEWATER & 8" WATER LINE
SEXTON LANE
MIDWAY ROAD TO MERRELL ROAD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	411Q	1749	454

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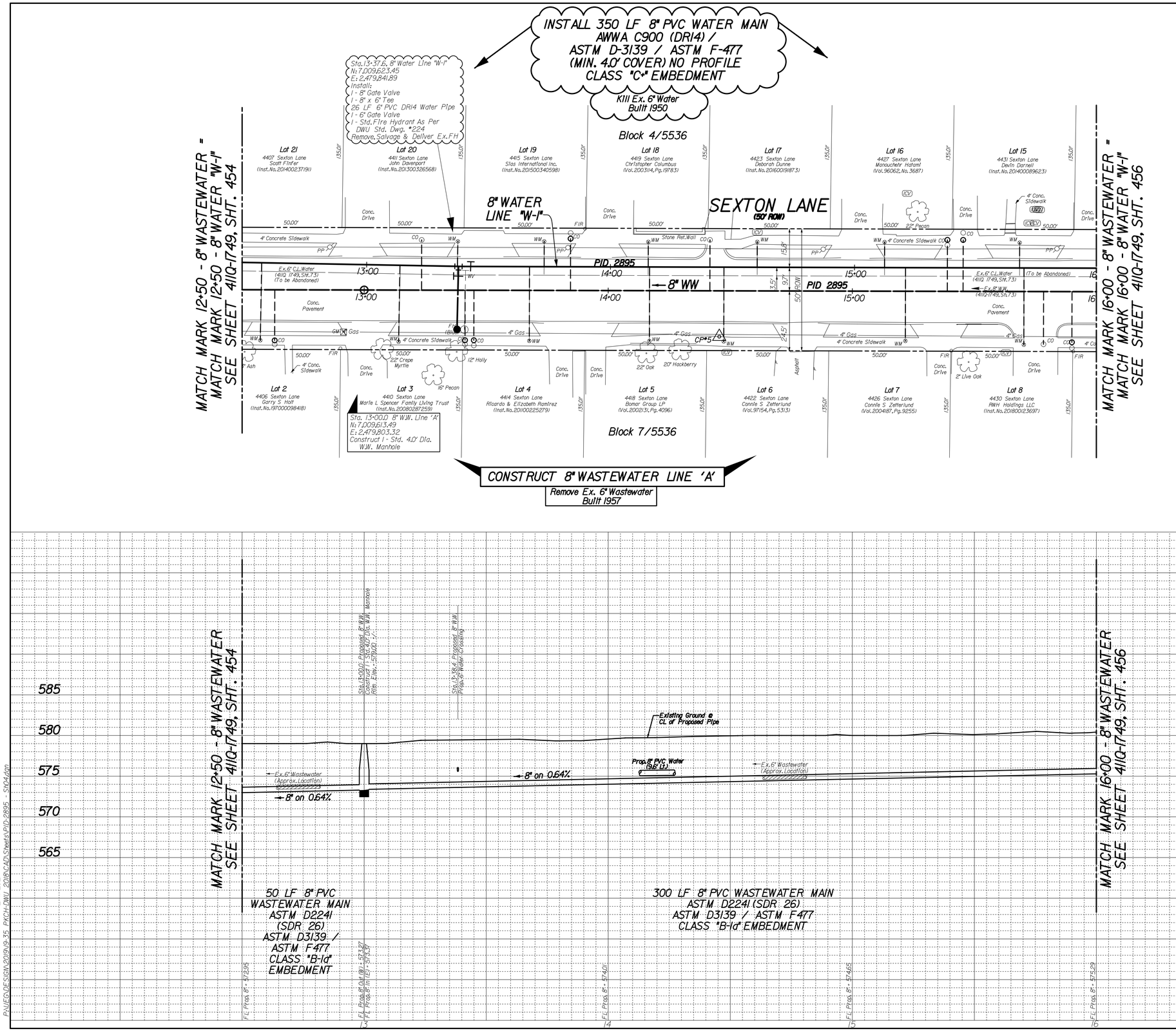
2/1/2021



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STATE OF TEXAS
FAISAL S. SYED
84833
LICENSED PROFESSIONAL ENGINEER
Feb 2, 2021

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UEG urban engineering group
167 turtle creek blvd, ste a dallas, texas 75207
(214) 252-1600 p
FIRM REGISTRATION No: F5332

CONTRACT NO. 21-049/050 | PID # 2895

8" WASTEWATER & 8" WATER LINE
SEXTON LANE
MIDWAY ROAD TO MERRELL ROAD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	411Q	1749	455

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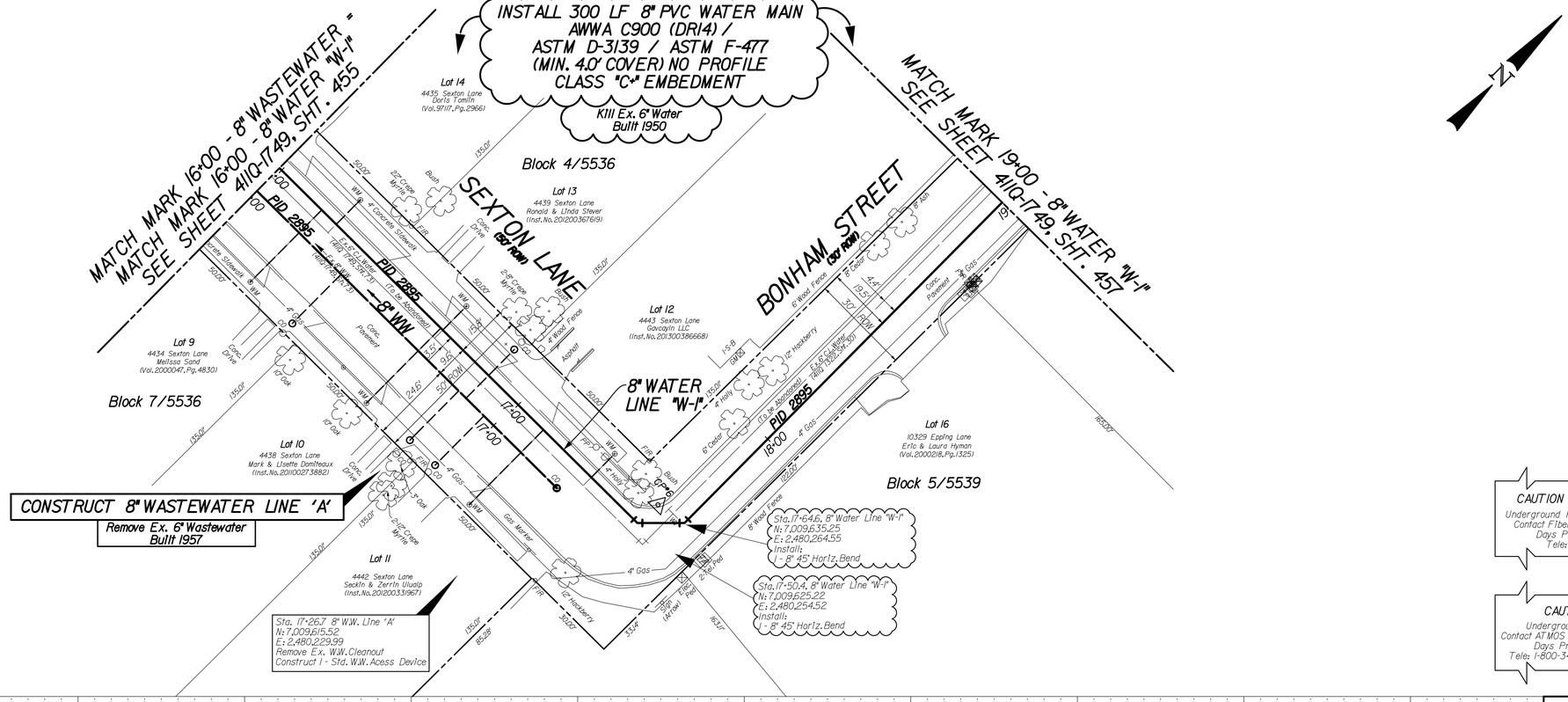

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DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	411Q	1749	456

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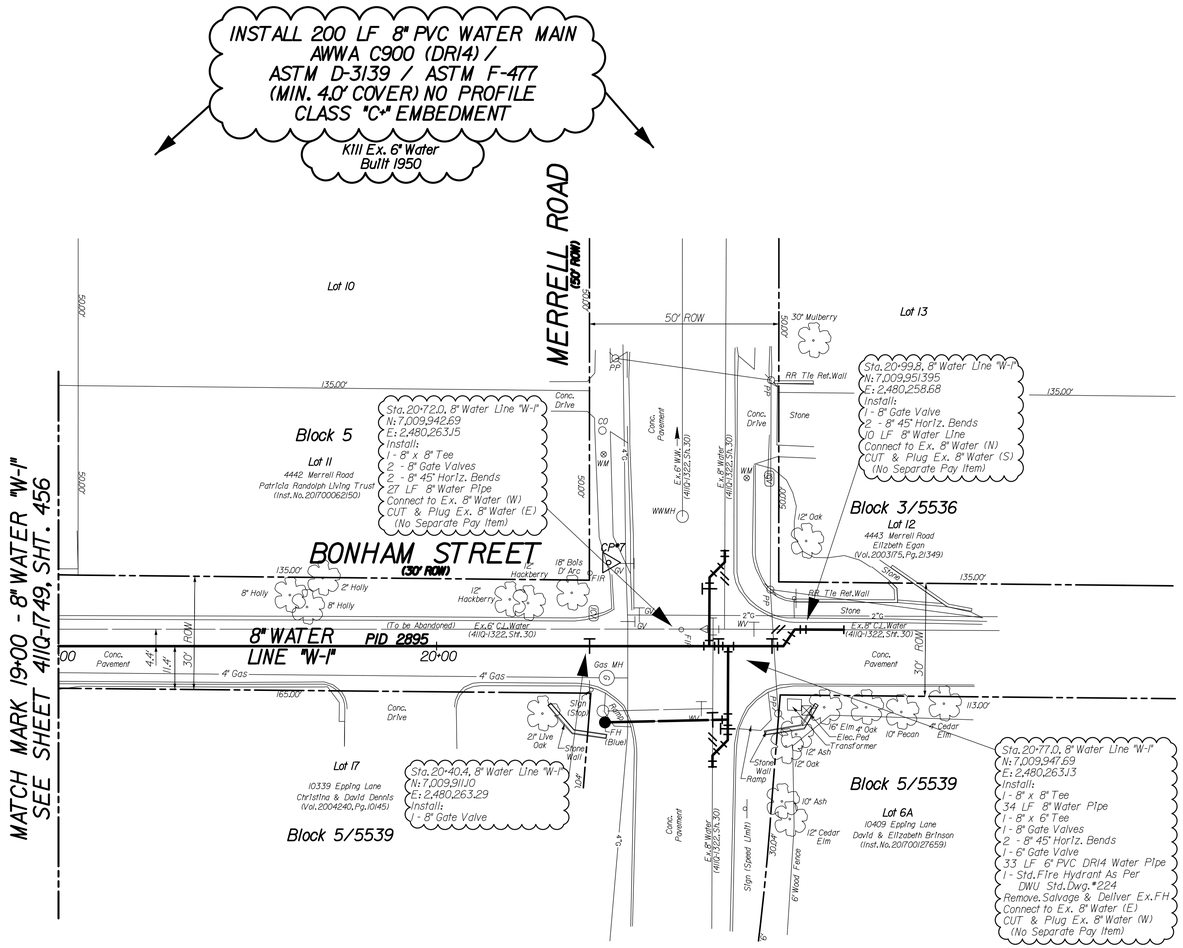

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UEGI	UEGI	FEB. 2021	411Q	1749	457

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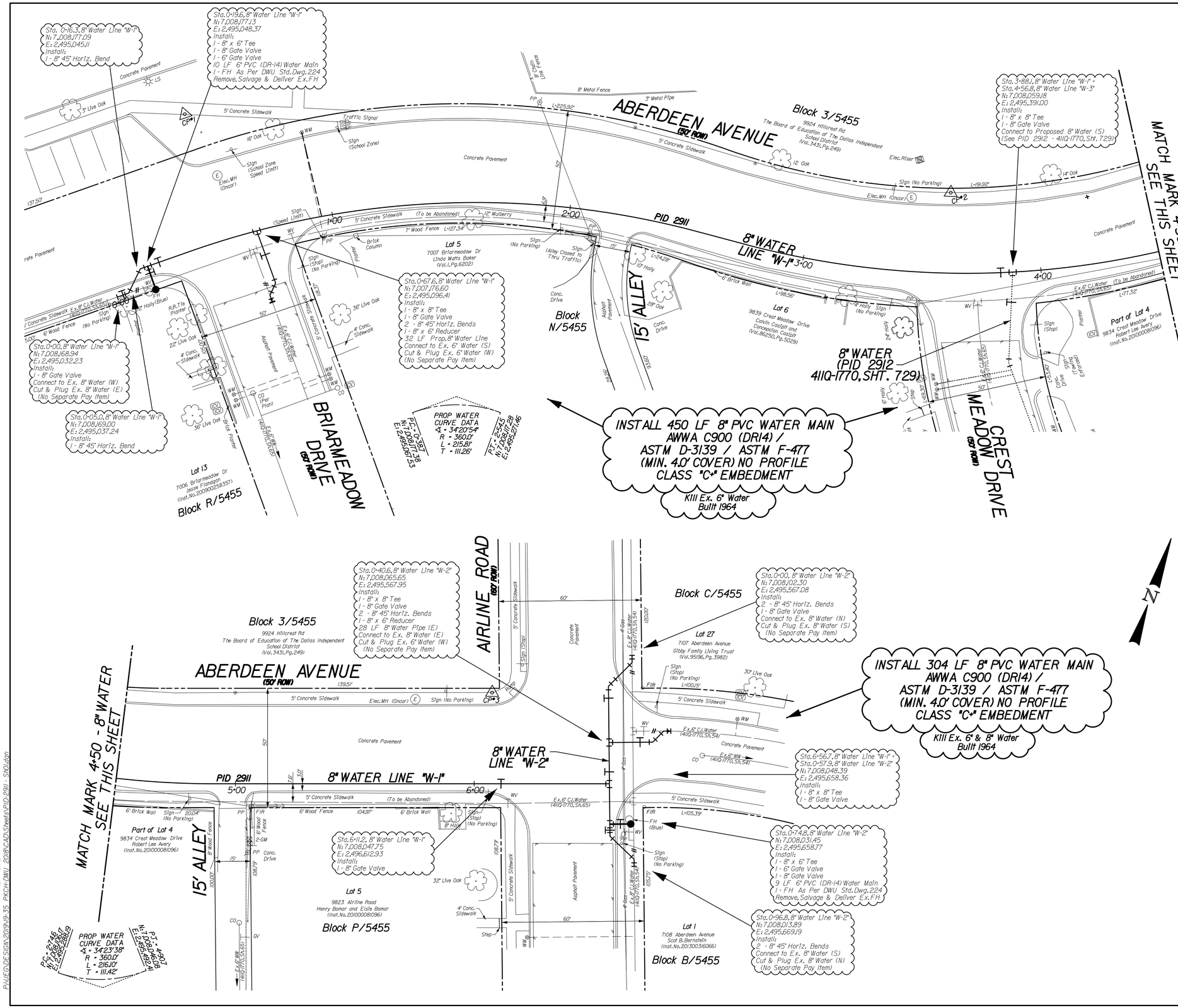

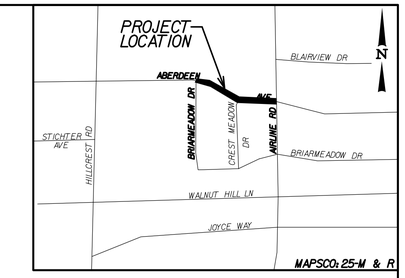

NOTES:
1. SEE PROJECT GENERAL NOTES SHEET FOR ADDITIONAL NOTES.
2. THE GROUND SURVEY WAS PERFORMED BY PACHECO KOCH IN JANUARY 2020. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY.
3. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZENS AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
4. 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.

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 CONSTUCTION FOR ON-SITE 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 AT&T 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 ~ POWER !
Overhead & Undergound Electrical Cables In Area Contact ONCOR Two Working Days Prior To Construction. Tele: 1-800-344-8377

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			

BENCHMARKS & CONTROL POINTS

BENCHMARK # 25-M-15
A STANDARD WATER DEPARTMENT BENCHMARK ON CONCRETE CURB OF STORM SEWER DROP INLET SOUTHEAST CORNER OF THE INTERSECTION OF HILLCREST ROAD AND HURST AVENUE
ELEV = 613.73'

BENCHMARK # 25-R-2
A SQUARE ON THE WEST SIDE OF A CONCRETE BASE FOR METAL LIGHT POLE CENTER OF PARKWAY OF HILLCREST AVENUE AND 50 FEET NORTH OF THE CENTERLINE OF ABERDEEN AVENUE
ELEV = 628.51'

Point	Northing	Easting	Elev.	Description
1	7,008,232.57	2,495,083.46	629.05'	"X" CUT
2	7,008,099.01	2,495,377.05	624.78'	"X" CUT
3	7,008,085.90	2,495,608.70	619.95'	"X" CUT

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

REFERENCES
WATER 20-26W
WASTEWATER 20-27S

STATE OF TEXAS
FAISAL S. SYED
84833
LICENSED PROFESSIONAL ENGINEER
04/16/21
12.05.2021

Pacheco Koch
UEG urban|engineers|group
167 turtle creek blvd.
ste a dallas, texas 75207
(214) 252-1600 p
FIRM REGISTRATION No: F5332

CONTRACT NO. 21-049/050 | PID # 2911

8" WATER LINE
ABERDEEN AVENUE
FROM BRIARMEADOW DR TO AIRLINE RD
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	411Q	1770	728

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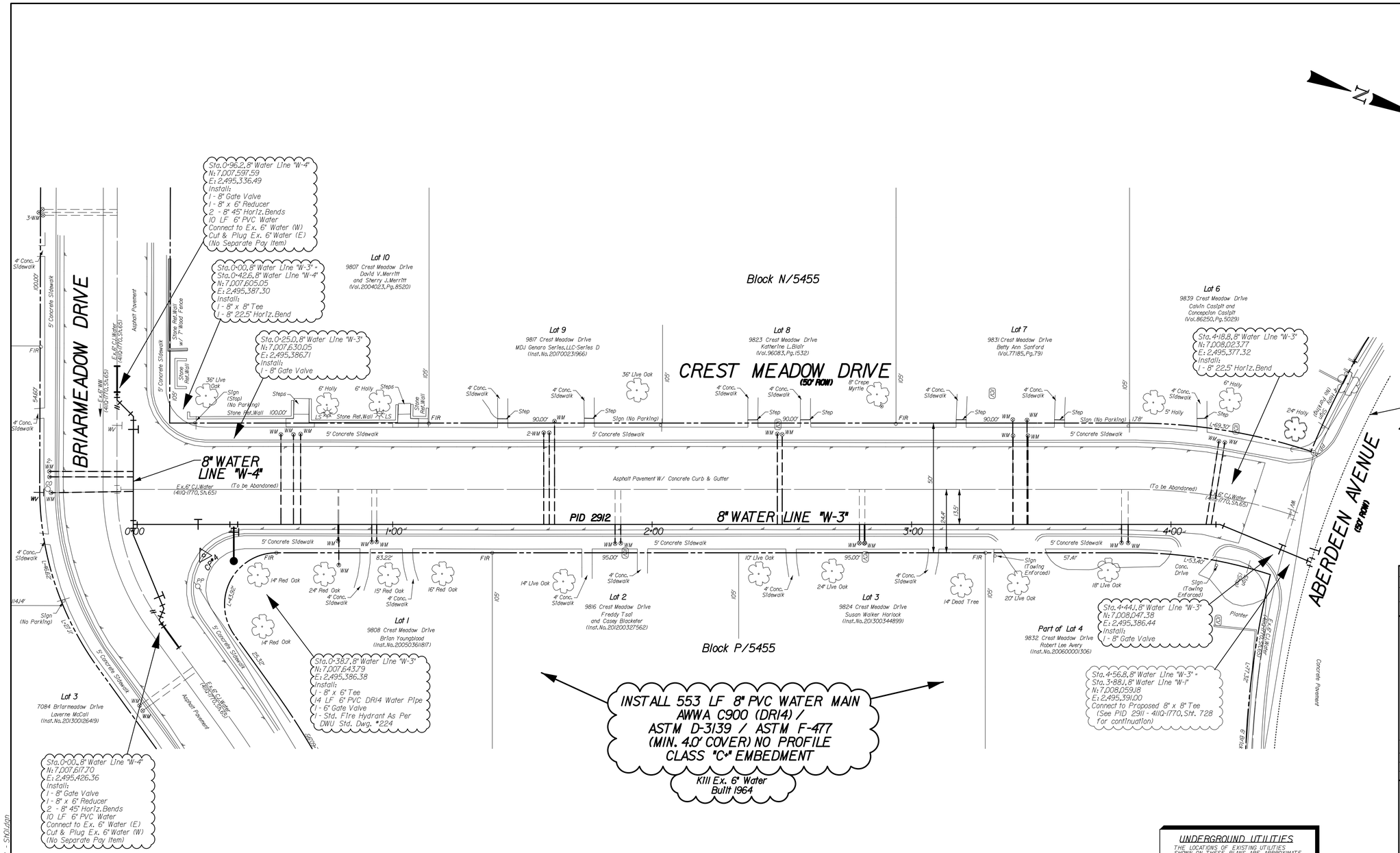
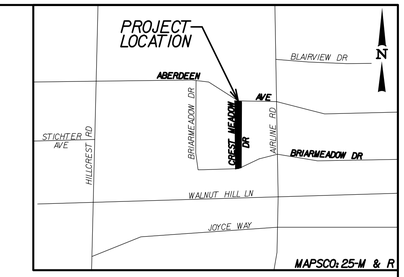
2/1/2021





NOTES:
1. SEE PROJECT GENERAL NOTES SHEET FOR ADDITIONAL NOTES.
2. THE GROUND SURVEY WAS PERFORMED BY PACHECO KOCH IN JANUARY 2020. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY.
3. 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.
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REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			

BENCHMARKS & CONTROL POINTS

BENCHMARK # 25-M-15
A STANDARD WATER DEPARTMENT BENCHMARK ON CONCRETE CURB OF STORM SEWER DROP INLET SOUTHEAST CORNER OF THE INTERSECTION OF HILLCREST ROAD AND HURST AVENUE
ELEV = 613.73'

BENCHMARK # 25-R-2
A SQUARE ON THE WEST SIDE OF A CONCRETE BASE FOR METAL LIGHT POLE CENTER OF PARKWAY OF HILLCREST AVENUE AND 50 FEET NORTH OF THE CENTERLINE OF ABERDEEN AVENUE
ELEV = 628.51'

Point	Northing	Easting	Elev.	Description
2	7,008,099.01	2,495,377.05	624.78'	'X' CUT
4	7,007,632.51	2,495,398.61	620.97'	'X' CUT

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

REFERENCES
WATER
20-26W
WASTEWATER
20-27S

STATE OF TEXAS
FAISAL S. SYED
84833
LICENSED PROFESSIONAL ENGINEER
DWU 21-049/050
12.03.2021

UNDERGROUND UTILITIES
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CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area Contact AT&T 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 ~ POWER !
Overhead & Underground Electrical Cables In Area Contact ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377

Pacheco Koch
UEG urban engineering group
167 turtle creek blvd, ste a dallas, texas 75207
(214) 252-1600 p
FIRM REGISTRATION No: F5332

CONTRACT NO. 21-049/050 | PID # 2912

8" WATER LINE
CREST MEADOW DRIVE
FROM BRIARMEADOW DR TO ABERDEEN AVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
UEG1	UEG1	FEB. 2021	411Q	1770	729

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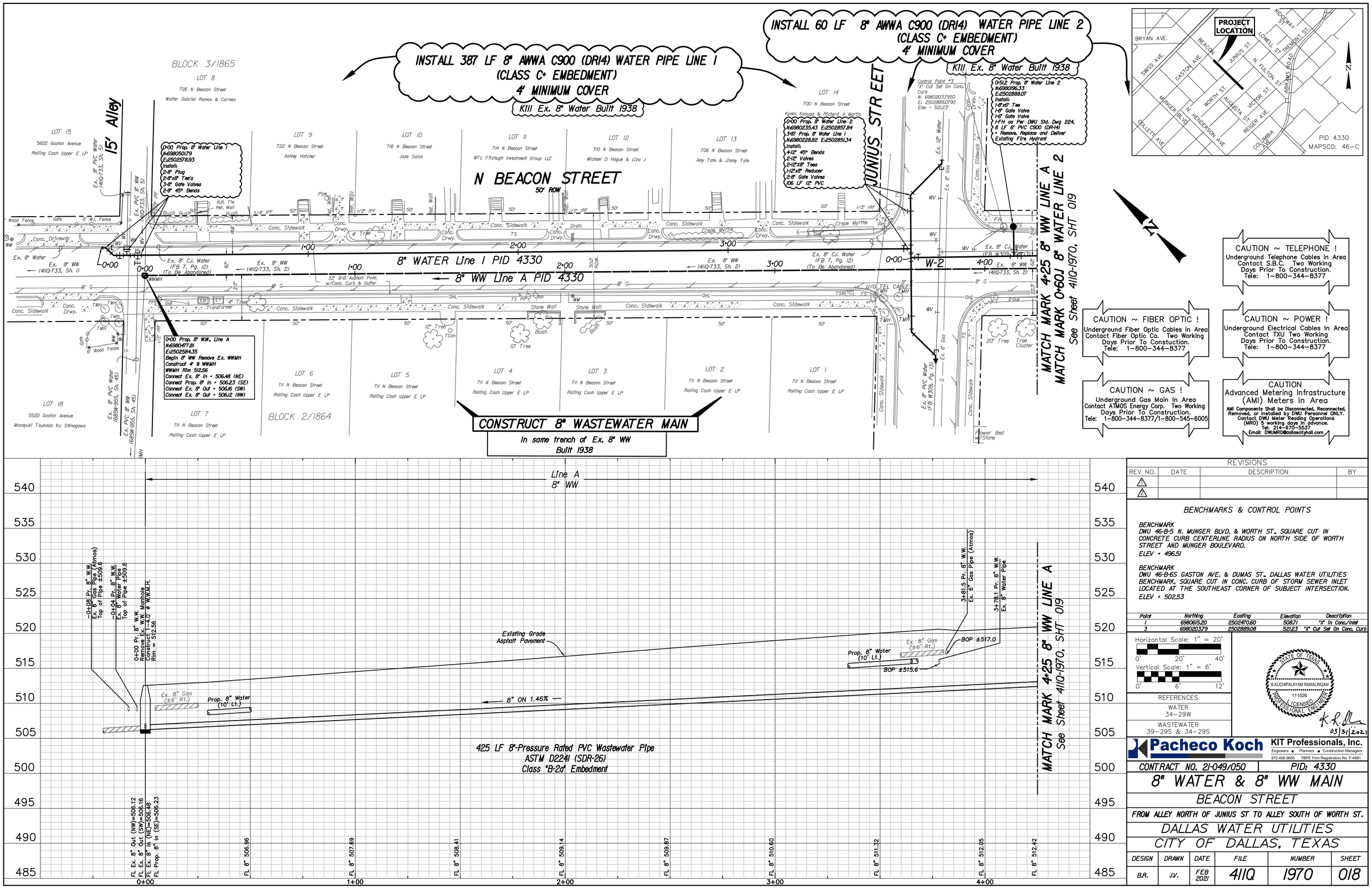
2/1/2021



REVISIONS

REV NO.	DATE	DESCRIPTION	BY
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2			

BENCHMARKS & CONTROL POINTS

BENCHMARK
DWU 46-B-5 N. MUNGER BLVD. & WORTH ST. SQUARE CUT IN CONCRETE CURB CENTERLINE RADIUS ON NORTH SIDE OF WORTH STREET AND MUNGER BOULEVARD.
ELEV = 496.51

BENCHMARK
DWU 46-B-6S GASTON AVE. & DUMAS ST. DALLAS WATER UTILITIES BENCHMARK, SQUARE CUT IN CONC. CURB OF STORM SEWER INLET LOCATED AT THE SOUTHEAST CORNER OF SUBJECT INTERSECTION.
ELEV = 502.53

Point	Northing	Easting	Elevation	Description
1	6980615.20	2502470.60	508.71	"X" In Conc./Inlet
3	6980203.79	2502889.08	521.23	"X" Cut Set On Conc. Curb

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

REFERENCES
WATER
34-29W
WASTEWATER
39-29S & 34-29S

STATE OF TEXAS
B.KUCHIPALAYAM RAMALINGAM
111526
LICENSED PROFESSIONAL ENGINEER
03/31/2021

Pacheco Koch
KIT Professionals, Inc.
Engineers • Planners • Construction Managers
972.456.9650 TBPE Firm Registration No. F-4991

CONTRACT NO. 21-049/050 | PID: 4330

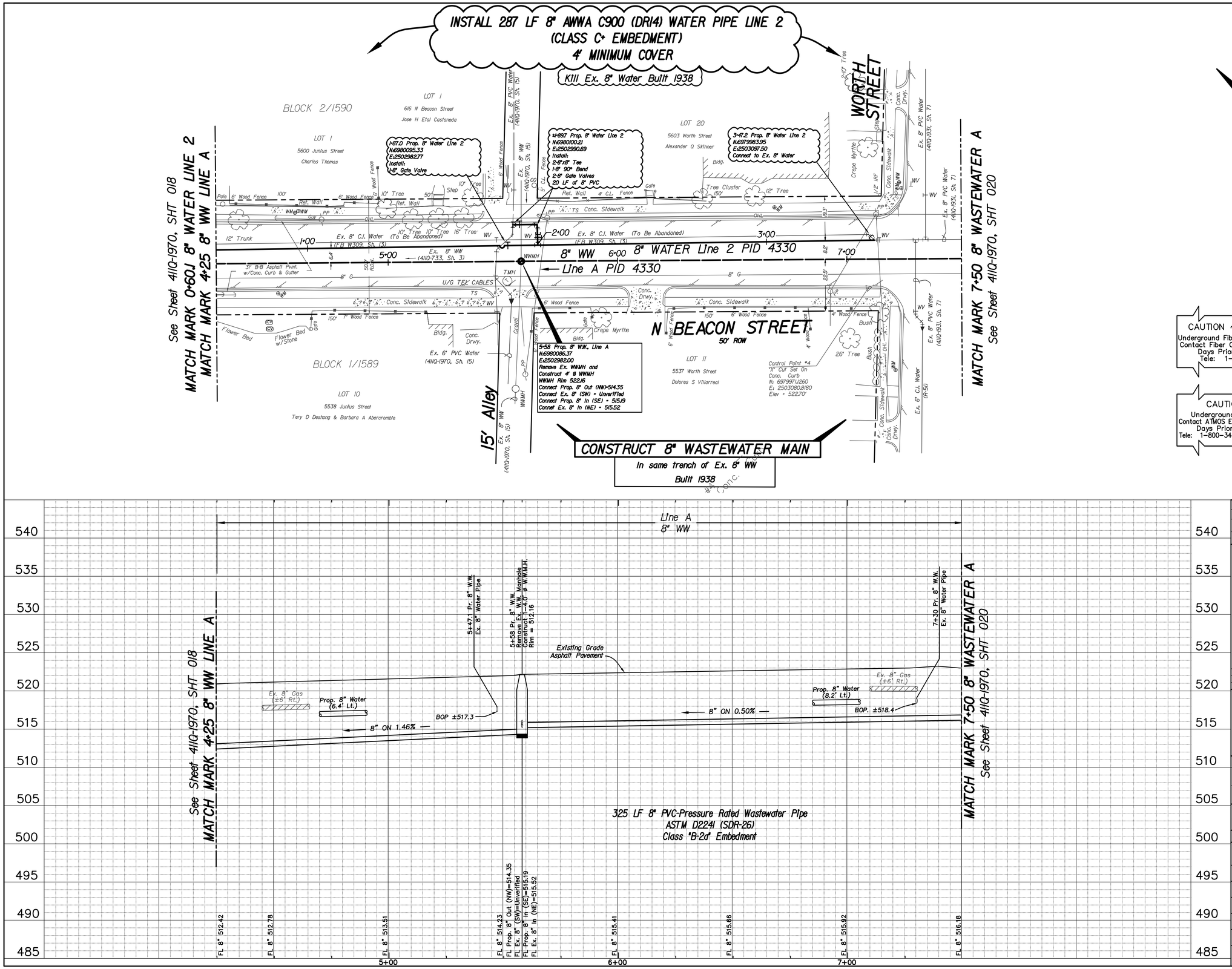
8" WATER & 8" WW MAIN

BEACON STREET

FROM ALLEY NORTH OF JUNIUS ST TO ALLEY SOUTH OF WORTH ST.

DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
B.R.	J.V.	FEB 2021	411Q	1970	018



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
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BENCHMARKS & CONTROL POINTS

BENCHMARK
DWU 46-B-5 N. MUNGER BLVD. & WORTH ST., SQUARE CUT IN CONCRETE CURB CENTERLINE RADIUS ON NORTH SIDE OF WORTH STREET AND MUNGER BOULEVARD.
ELEV = 496.51

BENCHMARK
DWU 46-B-6S GASTON AVE. & DUMAS ST., DALLAS WATER UTILITIES BENCHMARK, SQUARE CUT IN CONC. CURB OF STORM SEWER INLET LOCATED AT THE SOUTHEAST CORNER OF SUBJECT INTERSECTION.
ELEV = 502.53

Point	Northing	Easting	Elevation	Description
3	698020.379	2502889.08	521.23	"X" Cut Set On Conc. Curb
4	6979971.13	2503080.82	522.70	"X" Cut Set On Conc. Curb

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

REFERENCES
WATER
34-29W
WASTEWATER
39-29S & 34-29S

STATE OF TEXAS
B.KUCHIPALAYAM RAMALINGAM
111526
LICENSED
PROFESSIONAL ENGINEER
03/31/2021

Pacheco Koch
KIT Professionals, Inc.
Engineers • Planners • Construction Managers
972.456.9650 TBPE Firm Registration No. F-4991

CONTRACT NO. 21-049/050 | PID: 4330

8" WATER & 8" WW MAIN

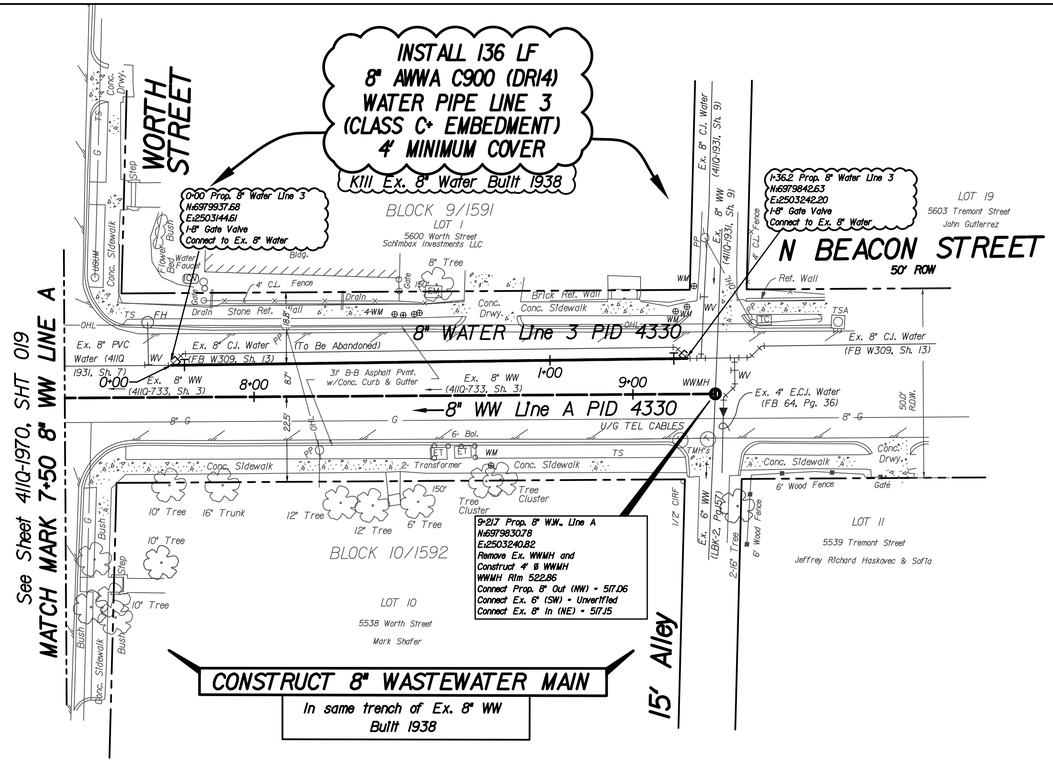
BEACON STREET

FROM ALLEY NORTH OF JUNIUS ST TO ALLEY SOUTH OF WORTH ST.

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
B.R.	J.V.	FEB 2021	4110	1970	019



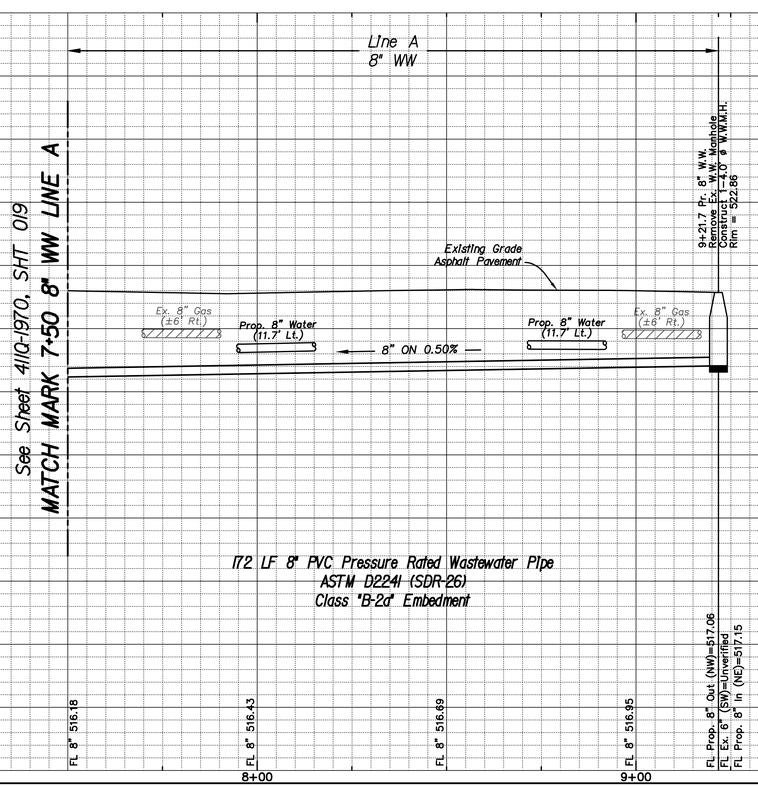
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Constuction.
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: 214-670-5537
Email: DWUMRO@dallascityhall.com



REVISIONS

REV. NO.	DATE	DESCRIPTION	BY
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BENCHMARKS & CONTROL POINTS

BENCHMARK
DWU 46-B-5 N. MUNGER BLVD. & WORTH ST., SQUARE CUT IN CONCRETE CURB CENTERLINE RADIUS ON NORTH SIDE OF WORTH STREET AND MUNGER BOULEVARD.
ELEV = 496.51

BENCHMARK
DWU 46-B-6S GASTON AVE. & DUMAS ST., DALLAS WATER UTILITIES BENCHMARK, SQUARE CUT IN CONC. CURB OF STORM SEWER INLET LOCATED AT THE SOUTHEAST CORNER OF SUBJECT INTERSECTION.
ELEV = 502.53

Point	Northing	Easting	Elevation	Description
4	6979971.13	2503080.82	522.70	"X" Cut Set On Conc. Curb
5	6979733.85	2503363.39	521.79	"X" In Conc./TC

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

REFERENCES
WATER
34-29W
WASTEWATER
39-29S & 34-29S

STATE OF TEXAS
B.KUCHIPALAYAM RAMALINGAM
111526
LICENSED PROFESSIONAL ENGINEER
03/31/2021

Pacheco Koch
KIT Professionals, Inc.
Engineers • Planners • Construction Managers
972.456.9650 TBPE Firm Registration No. F-4991

CONTRACT NO. 21-049/050 | PID: 4330

8" WATER & 8" WW MAIN

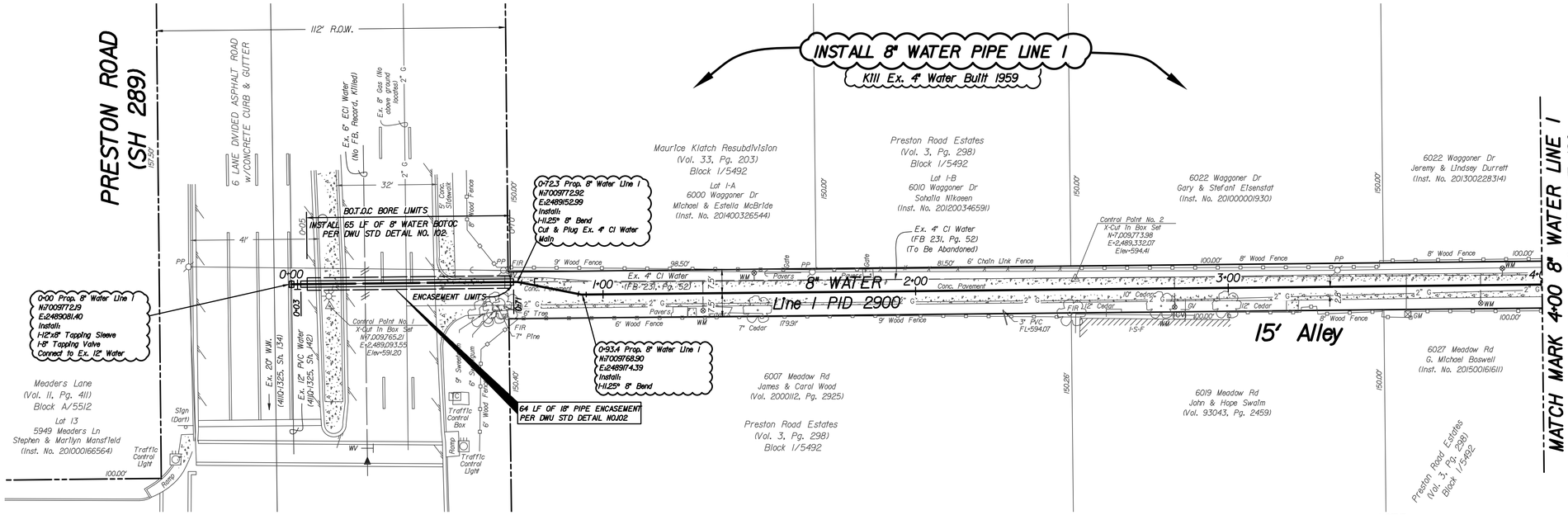
BEACON STREET

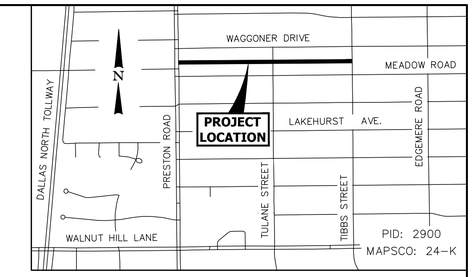
FROM ALLEY NORTH OF JUNIUS ST TO ALLEY SOUTH OF WORTH ST.

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
B.R.	J.V.	FEB 2021	411Q	1970	020





NOTE:

1. TEMPORARY 4-INCH WATER MAIN WILL BE CONNECTED TO THE SERVICES THROUGHOUT THE SEGMENT DURING CONSTRUCTION
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY WATER SERVICE DURING THE CONSTRUCTION OF THE WATER LINE

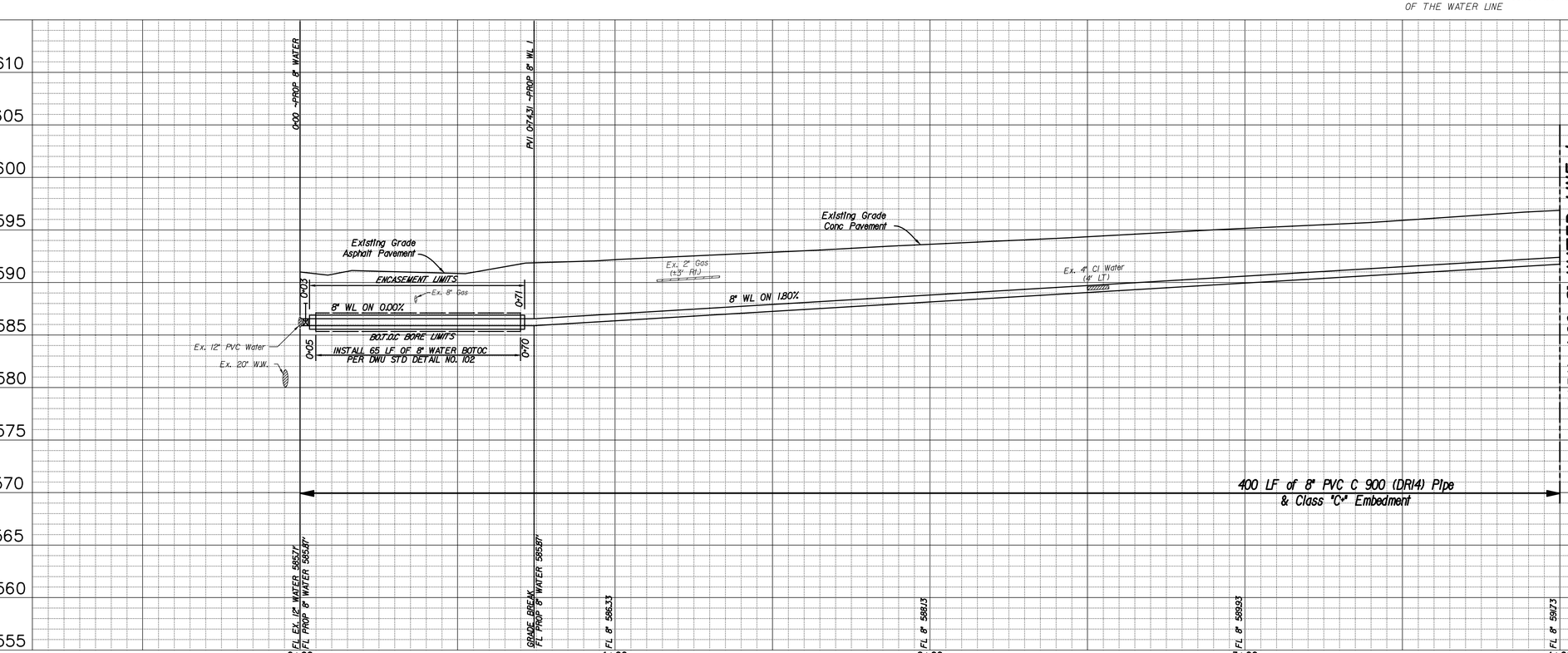
CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. Two Working Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working Days Prior To Constuction.
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: 214-670-5537
Email: DWUMRO@dallascityhall.com



REVISIONS

REV. NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, AT THE MIDPOINT OF CONCRETE CURB ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON ROAD AND WAGONNER DRIVE. DWU-K-5S
ELEV = 591.85

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, SET IN CONCRETE CURB IN STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON RD. & GLENDORA AVE. DWU-K-2S
ELEV = 592.10

Point	Northing	Easting	Elevation	Description
1	7009765.21	2489093.55	591.20	X-Cut In Box Set
2	7009773.98	2489332.07	594.41	X-Cut In Box Set

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

REFERENCES
WATER 19-24W & 19-25W
WASTEWATER N/A

STATE OF TEXAS
B.KUCHIPALAYAM RAMALINGAM
111526
LICENSED PROFESSIONAL ENGINEER
03/31/2021

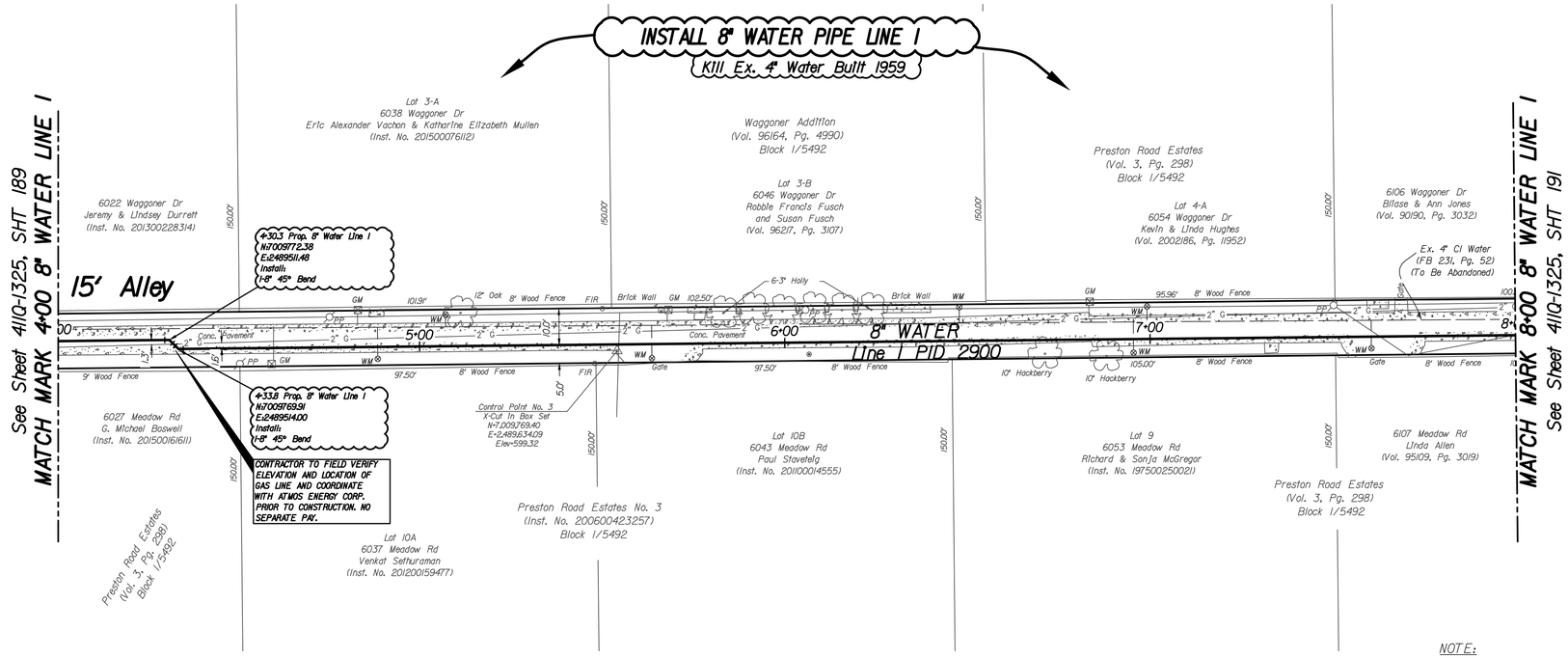
Pacheco Koch
KIT Professionals, Inc.
Engineers • Planners • Construction Managers
972.456.9650 TBPE Firm Registration No. F-4991

CONTRACT NO. 21-049/050 | PID: 2900

8" WATER MAIN REPLACEMENT

IN ALLEY BETWEEN MEADOW RD AND WAGGONER DR
FROM PRESTON ROAD TO TIBBS STREET
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
B.R.	J.V.	FEB 2021	411Q	1325	189



NOTE:

1. TEMPORARY 4-INCH WATER MAIN WILL BE CONNECTED TO THE SERVICES THROUGHOUT THE SEGMENT DURING CONSTRUCTION
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY WATER SERVICE DURING THE CONSTRUCTION OF THE WATER LINE

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 Constuction.
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
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Tele: 1-800-344-8377/1-800-545-6005

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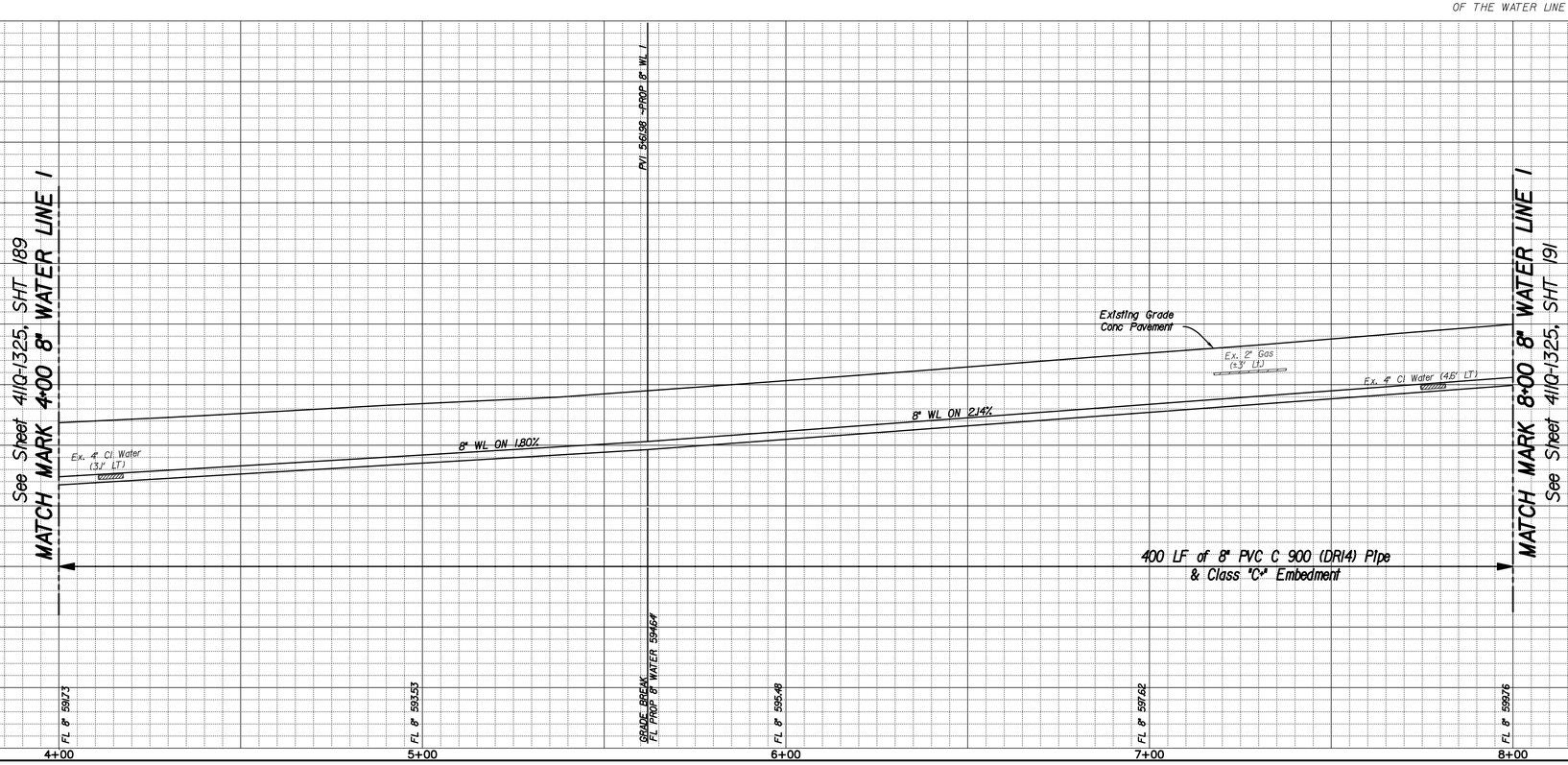


REVISIONS

REV. NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, AT THE MIDPOINT OF CONCRETE CURB ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON ROAD AND WAGONNER DRIVE. DWU-K-5S
ELEV = 591.85

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, SET IN CONCRETE CURB IN STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON RD. & GLENDORA AVE. DWU-K-2S
ELEV = 592.10

Point	Northing	Easting	Elevation	Description
3	7009769.40	2489634.09	599.32	X-Cut In Box Set
4	7009780.97	2489934.25	606.09	X-Cut In Box Set

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

REFERENCES
WATER
19-24W & 19-25W
WASTEWATER
N/A

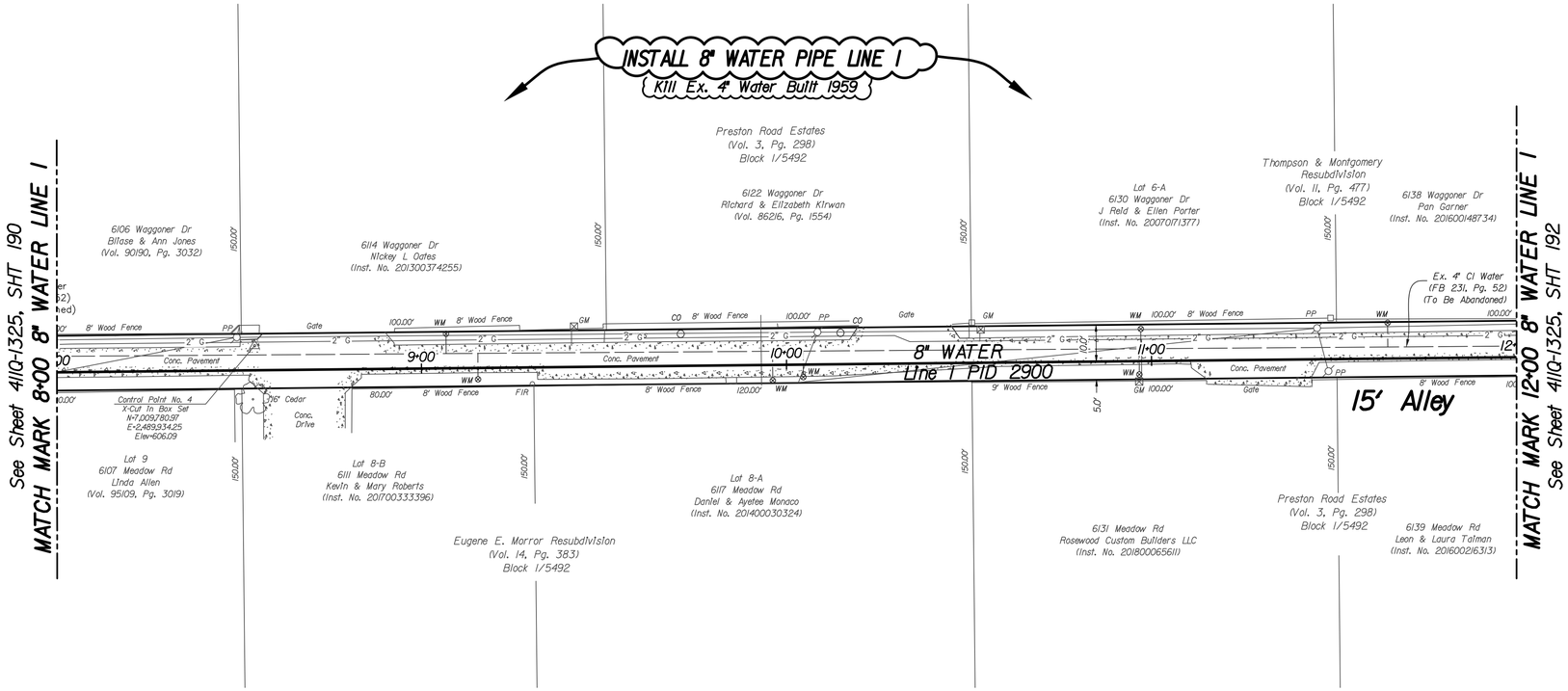
STATE OF TEXAS
B.KUCHIPALAYAM RAMALINGAM
111526
LICENSED PROFESSIONAL ENGINEER
03/31/2021

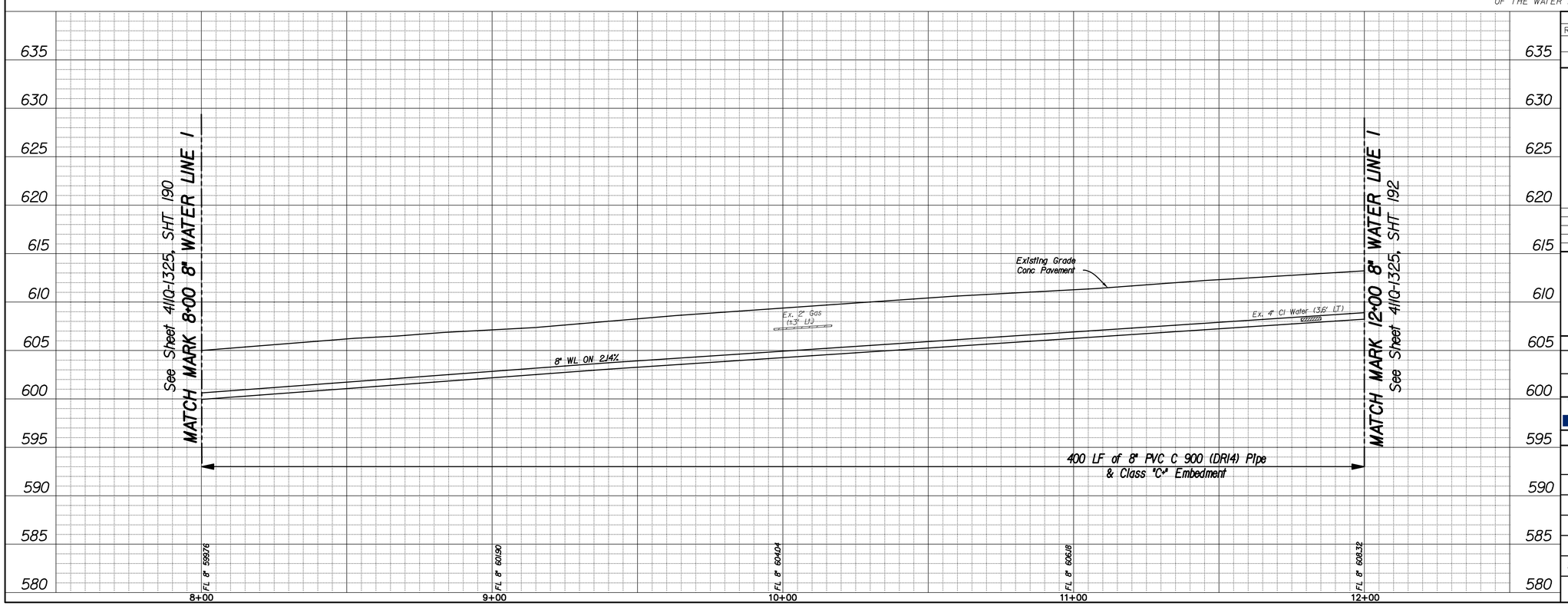
Pacheco Koch
KIT Professionals, Inc.
Engineers • Planners • Construction Managers
972.456.9650 TBPE Firm Registration No. F-4991

CONTRACT NO. 21-049/050 | PID: 2900

8" WATER MAIN REPLACEMENT
IN ALLEY BETWEEN MEADOW RD AND WAGGONER DR
FROM PRESTON ROAD TO TIBBS STREET
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
B.R.	J.V.	FEB 2021	411Q	1325	190





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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 ~ 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 !
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, 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

NOTE:

1. CONTRACTOR WILL GET DWU APPROVAL BEFORE TREE REMOVAL
2. TEMPORARY 4-INCH WATER MAIN WILL BE CONNECTED TO THE SERVICES THROUGHOUT THE SEGMENT DURING CONSTRUCTION
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY WATER SERVICE DURING THE CONSTRUCTION OF THE WATER LINE

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, AT THE MIDPOINT OF CONCRETE CURB ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON ROAD AND WAGONNER DRIVE. DWU-K-5S
ELEV = 591.85

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, SET IN CONCRETE CURB IN STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON RD. & GLENDORA AVE. DWU-K-2S
ELEV = 592.10

Point	Northing	Easting	Elevation	Description
4	7009780.97	2489934.25	606.09	X-Cut In Box Set
5	7009776.09	2490336.87	625.92	X-Cut In Box Set

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

REFERENCES
WATER
19-24W & 19-25W
WASTEWATER
N/A

STATE OF TEXAS
B.KUCHIPALAYAM RAMALINGAM
111526
LICENSED PROFESSIONAL ENGINEER
03/31/2021

Pacheco Koch
KIT Professionals, Inc.
Engineers • Planners • Construction Managers
972.456.9650 TBPE Firm Registration No. F-4991

CONTRACT NO. 21-049/050 | PID: 2900

8" WATER MAIN REPLACEMENT

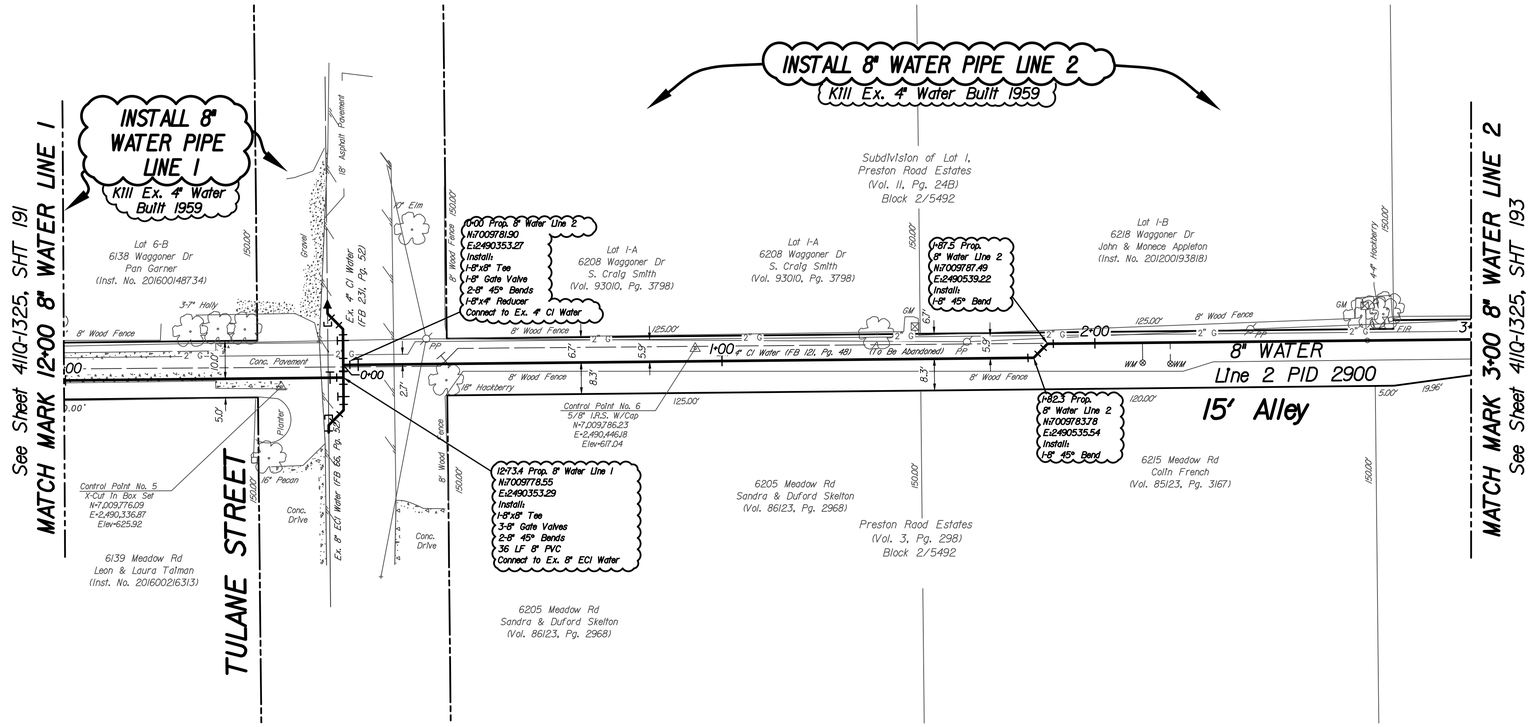
IN ALLEY BETWEEN MEADOW RD AND WAGGONER DR

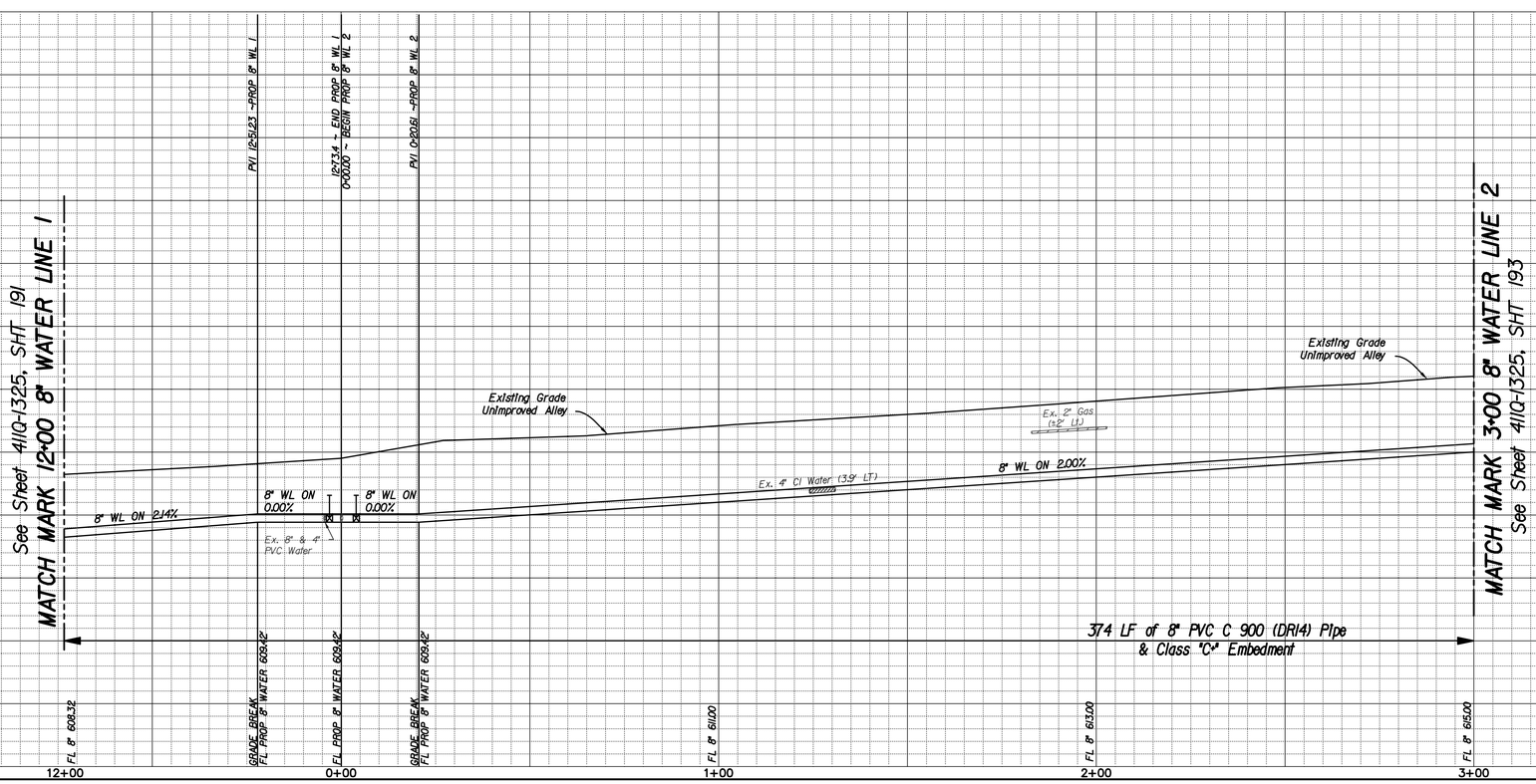
FROM PRESTON ROAD TO TIBBS STREET

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
B.R.	J.V.	FEB 2021	411Q	1325	191





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

CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
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Tele: 1-800-344-8377

CAUTION ~ GAS !
Underground Gas Main In Area
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Tele: 1-800-344-8377/1-800-545-6005

CAUTION ~ POWER !
Underground Electrical Cables In Area
Contact TXU Two Working Days Prior To Construction.
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Tel: 214-670-5537
Email: DWUMRO@dallascityhall.com

NOTE:

1. CONTRACTOR WILL GET DWU APPROVAL BEFORE TREE REMOVAL
2. TEMPORARY 4-INCH WATER MAIN WILL BE CONNECTED TO THE SERVICES THROUGHOUT THE SEGMENT DURING CONSTRUCTION
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY WATER SERVICE DURING THE CONSTRUCTION OF THE WATER LINE

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, AT THE MIDPOINT OF CONCRETE CURB ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON ROAD AND WAGONNER DRIVE. DWU-K-55
ELEV = 591.85

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, SET IN CONCRETE CURB IN STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON RD. & GLENDORA AVE. DWU-K-25
ELEV = 592.10

Point	Northing	Easting	Elevation	Description
5	7009776.09	2490336.87	625.92	X-Cut In Box Set
6	7009786.23	2490446.18	617.04	5/8" I.R.S. W/Cap

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

REFERENCES
WATER
19-24W & 19-25W
WASTEWATER
N/A

STATE OF TEXAS
B.KUCHIPALAYAM RAMALINGAM
111526
LICENSED PROFESSIONAL ENGINEER
03/31/2021

Pacheco Koch
KIT Professionals, Inc.
Engineers • Planners • Construction Managers
972.456.9650 TBPE Firm Registration No. F-4991

CONTRACT NO. 21-049/050 | PID: 2900

8" WATER MAIN REPLACEMENT

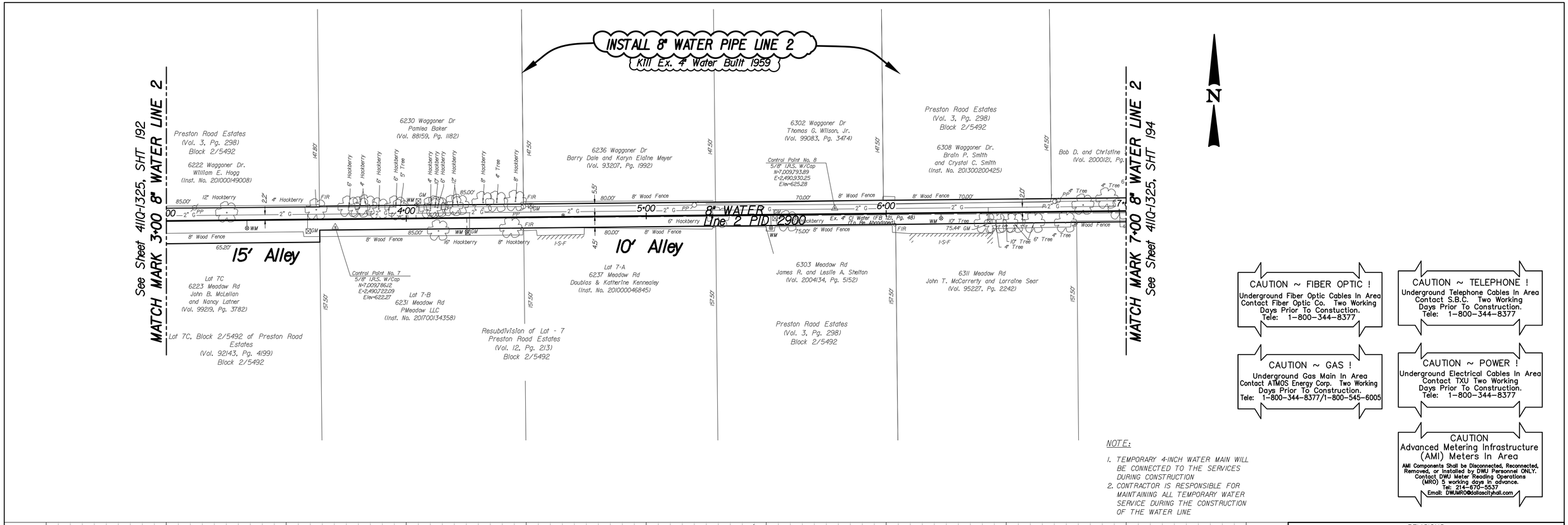
IN ALLEY BETWEEN MEADOW RD AND WAGGONER DR

FROM PRESTON ROAD TO TIBBS STREET

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
B.R.	J.V.	FEB 2021	411Q	1325	192



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

CAUTION
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NOTE:

1. TEMPORARY 4-INCH WATER MAIN WILL BE CONNECTED TO THE SERVICES DURING CONSTRUCTION
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY WATER SERVICE DURING THE CONSTRUCTION OF THE WATER LINE

REVISIONS

REV. NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, AT THE MIDPOINT OF CONCRETE CURB ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON ROAD AND WAGONNER DRIVE. DWU-K-5S
ELEV.=591.85

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, SET IN CONCRETE CURB IN STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON RD. & GLENDORA AVE. DWU-K-2S
ELEV.=592.10

Point	Northing	Easting	Elevation	Description
7	7009786.12	2490722.09	622.27	5/8" I.R.S. W/Cap
8	7009793.89	2490930.25	625.28	5/8" I.R.S. W/Cap

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

REFERENCES
WATER
19-24W & 19-25W
WASTEWATER
N/A

STATE OF TEXAS
B.KUCHIPALAYAM RAMALINGAM
111526
LICENSED PROFESSIONAL ENGINEER
03/31/2021

Pacheco Koch
KIT Professionals, Inc.
Engineers • Planners • Construction Managers
972.456.9650 TBPE Firm Registration No. F-4991

CONTRACT NO. 21-049/050 | PID: 2900

8" WATER MAIN REPLACEMENT

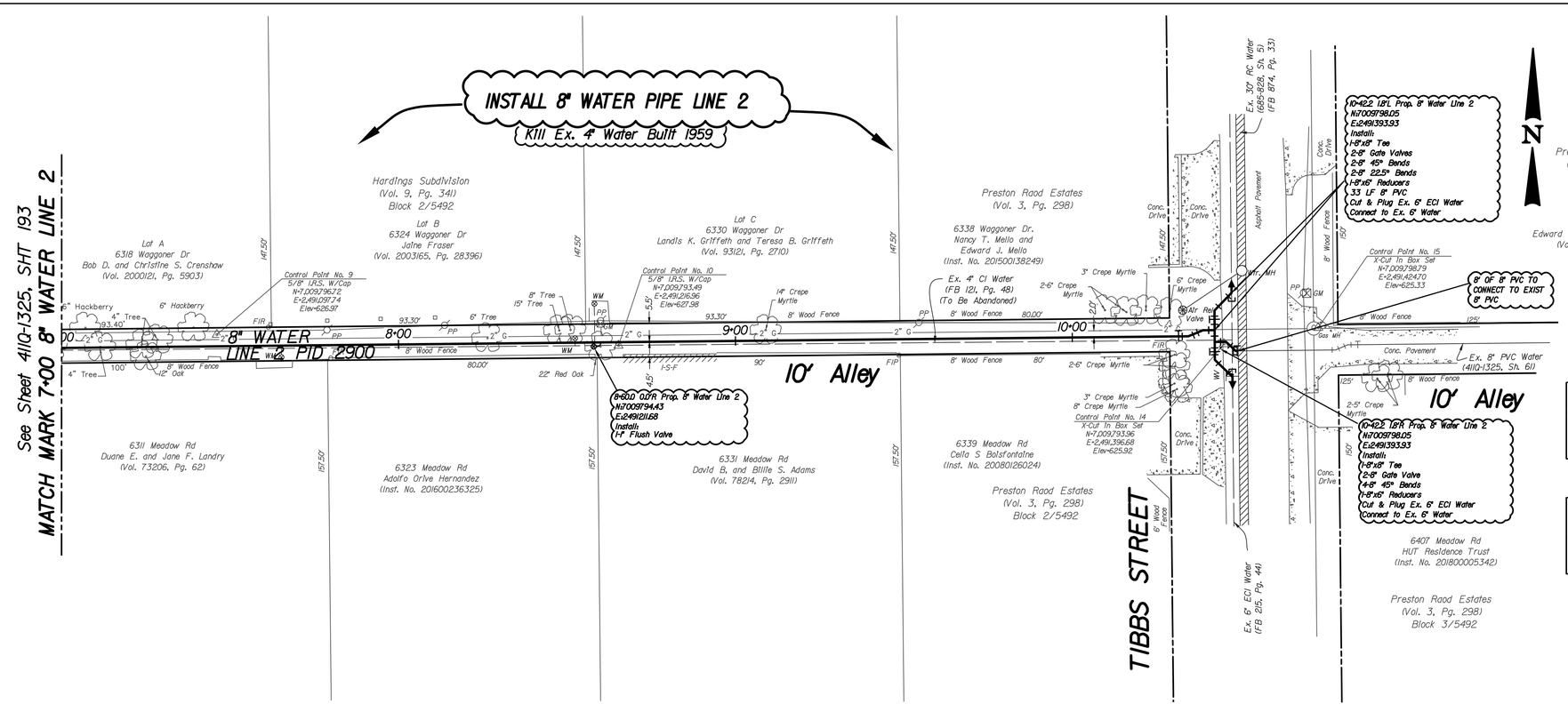
IN ALLEY BETWEEN MEADOW RD AND WAGGONER DR

FROM PRESTON ROAD TO TIBBS STREET

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
B.R.	J.V.	FEB 2021	411Q	1325	193



NOTE:

1. TEMPORARY 4-INCH WATER MAIN WILL BE CONNECTED TO THE SERVICES DURING CONSTRUCTION
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY WATER SERVICE DURING THE CONSTRUCTION OF THE WATER LINE

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working Days Prior To Constuction.
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CAUTION ~ TELEPHONE !
Underground Telephone Cables In Area
Contact S.B.C. 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 ~ POWER !
Underground Electrical Cables In Area
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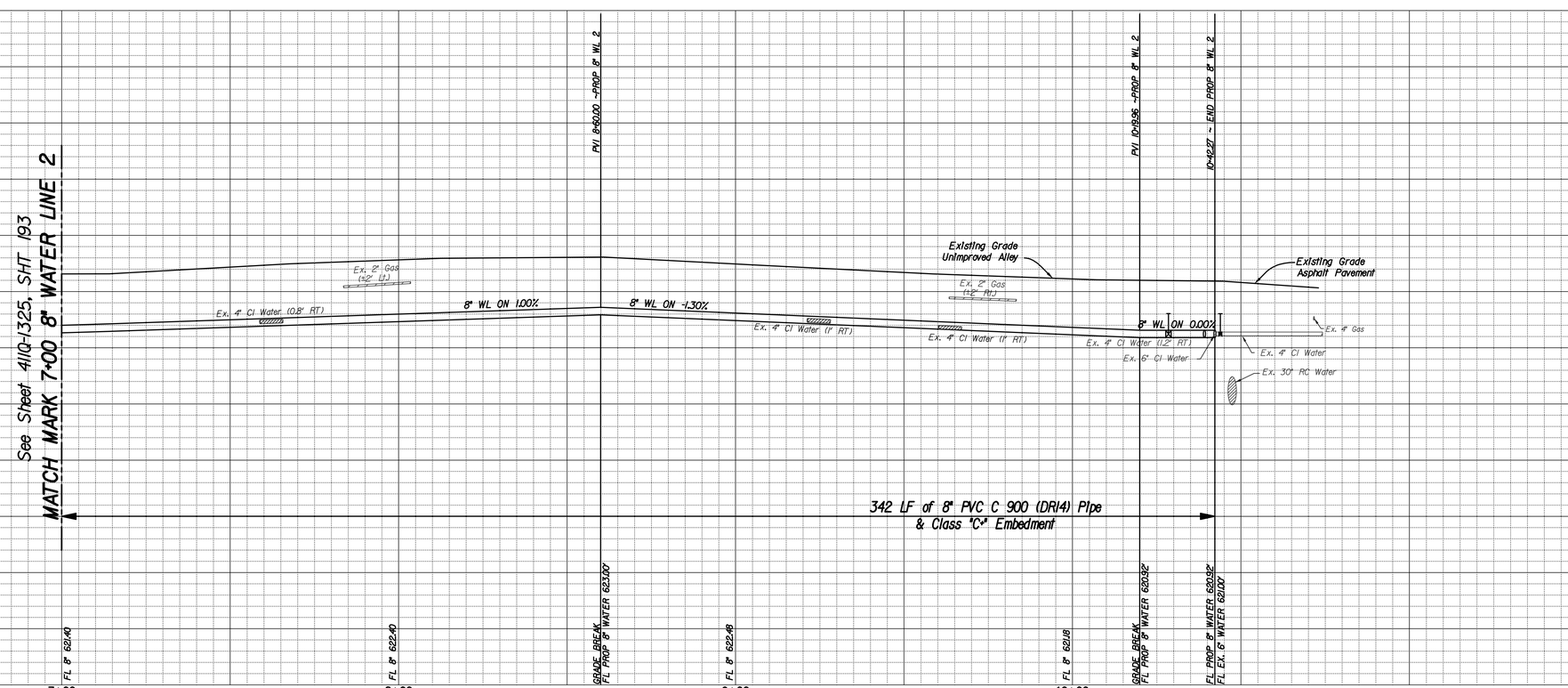
Tel: 214-670-5537
Email: DWUMRO@dallascityhall.com



REVISIONS

REV. NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, AT THE MIDPOINT OF CONCRETE CURB ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON ROAD AND WAGONNER DRIVE. DWU-K-5S
ELEV = 591.85

BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK, SET IN CONCRETE CURB IN STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF INTERSECTION OF PRESTON RD. & GLENDORA AVE. DWU-K-2S
ELEV = 592.10

Point	Northing	Easting	Elevation	Description
9	7009796.72	2491097.74	626.97	5/8" I.R.S. W/Cap
10	7009793.49	2491216.96	627.98	5/8" I.R.S. W/Cap
14	7009793.96	2491396.68	625.92	X-CUT In Box Set
15	7009798.79	2491424.70	625.33	X-CUT In Box Set

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

REFERENCES
WATER
19-24W & 19-25W
WASTEWATER
N/A

STATE OF TEXAS
B.KUCHIPALAYAM RAMALINGAM
111526
LICENSED
PROFESSIONAL ENGINEER
03/31/2021

Pacheco Koch
KIT Professionals, Inc.
Engineers • Planners • Construction Managers
972.456.9650 TBPE Firm Registration No. F-4991

CONTRACT NO. 21-049/050 | PID: 2900

8" WATER MAIN REPLACEMENT

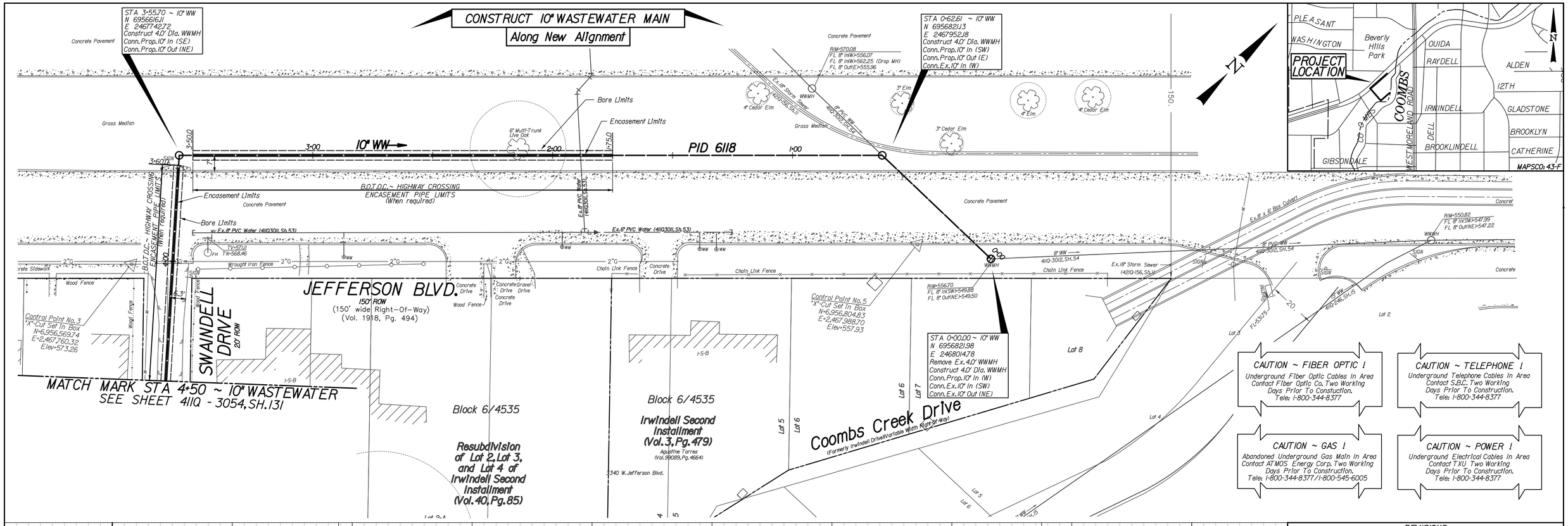
IN ALLEY BETWEEN MEADOW RD AND WAGGONER DR

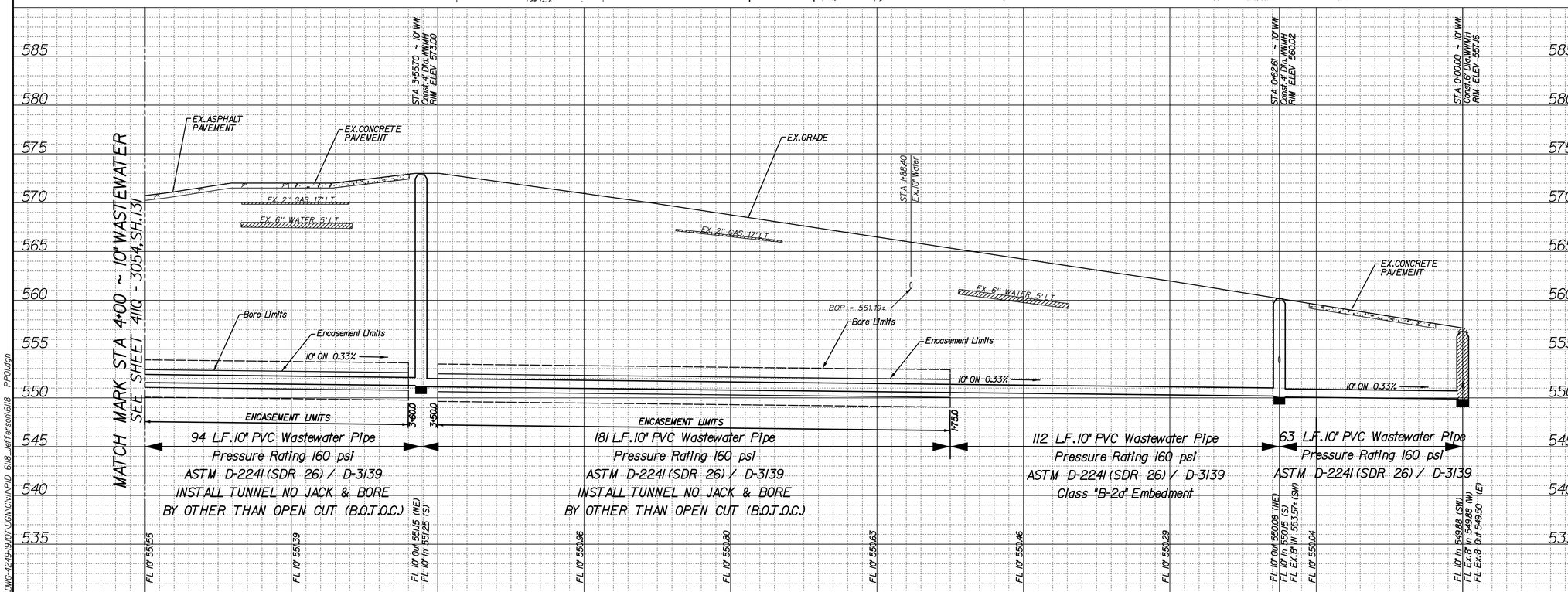
FROM PRESTON ROAD TO TIBBS STREET

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
B.R.	J.V.	FEB 2021	411Q	1325	194





REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK: 53-F-4
A square is cut at the Midpoint of a concrete curb on the Southeast corner of the Intersection of Glipin Avenue and Jefferson Boulevard.
ELEV = 595.99

BENCHMARK: 53-F-5S
A Standard Water Department Bench Mark is set on a concrete curb of storm sewer Inlet on the southeast corner of an Intersection of Westmoreland Road and Brooklyndell Avenue
ELEV = 611.60

Point	Northing	Easting	Elev.	Description
3	695956.74	2467760.32	573.26	X CUT
5	6956804.83	2467988.70	557.93	X CUT

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

REFERENCES

WATER
3W-33, 32W-32, & 32W-33

WASTEWATER
31S-33 & 32S-33

STATE OF TEXAS
MEREDITH G. McCALL
105081
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MEREDITH G. McCALL, P.E. 105081 ON 3/8/2021. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

CONTRACT NO. 21-049/150 | PID: 6118

10" WASTEWATER
ESMT S. OF JEFFERSON BOULEVARD
COOMBS CREEK WEST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
PK	PK	FEB 2021	411Q	3054	130

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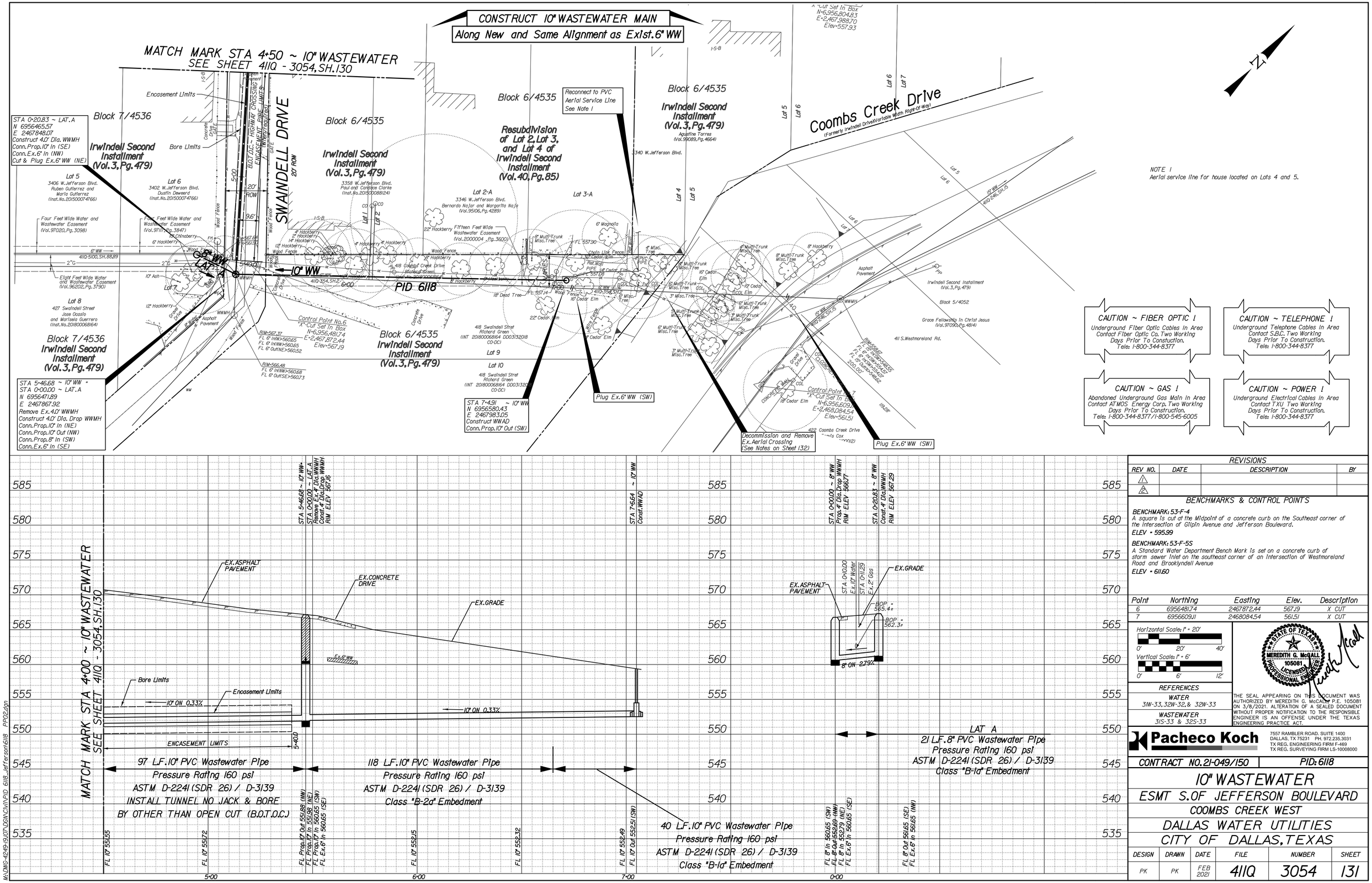

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK: 53-F-4
A square Is cut at the Midpoint of a concrete curb on the Southeast corner of the Intersection of Glipin Avenue and Jefferson Boulevard.
ELEV = 595.99

BENCHMARK: 53-F-5S
A Standard Water Department Bench Mark Is set on a concrete curb of storm sewer Inlet on the southeast corner of an Intersection of Westmoreland Road and Brooklyndell Avenue
ELEV = 611.60

Point	Northing	Easting	Elev.	Description
6	6956481.74	2467872.44	567.19	X CUT
7	6956609.11	2468084.54	561.51	X CUT

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

STATE OF TEXAS
MEREDITH G. McCALL
105081
LICENSED
PROFESSIONAL ENGINEER

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3W-33, 32W-32, & 32W-33
WASTEWATER
31S-33 & 32S-33

Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

CONTRACT NO. 21-049/150 | PID: 6118

10" WASTEWATER
ESMT S.OF JEFFERSON BOULEVARD
COOMBS CREEK WEST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
PK	PK	FEB 2021	411Q	3054	131

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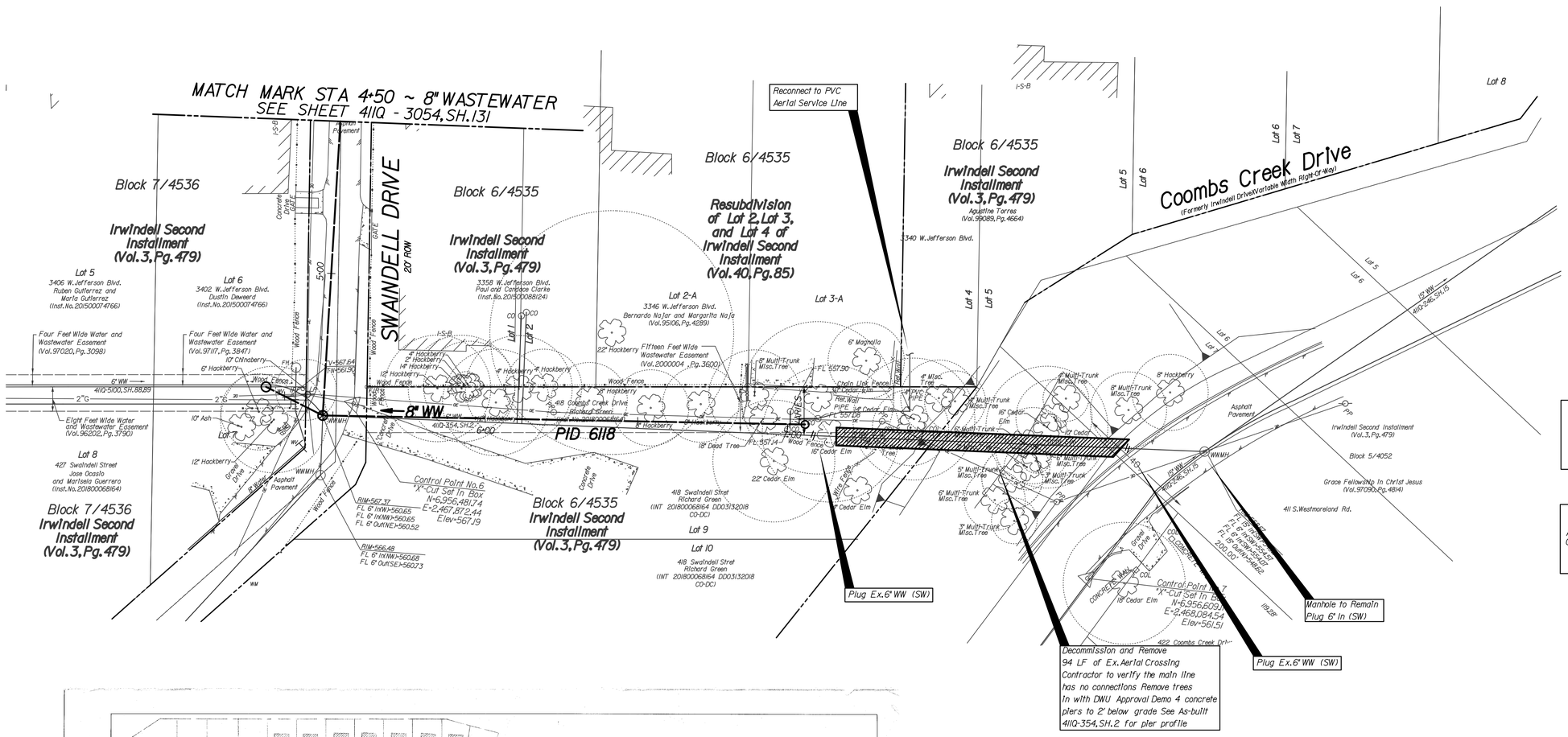

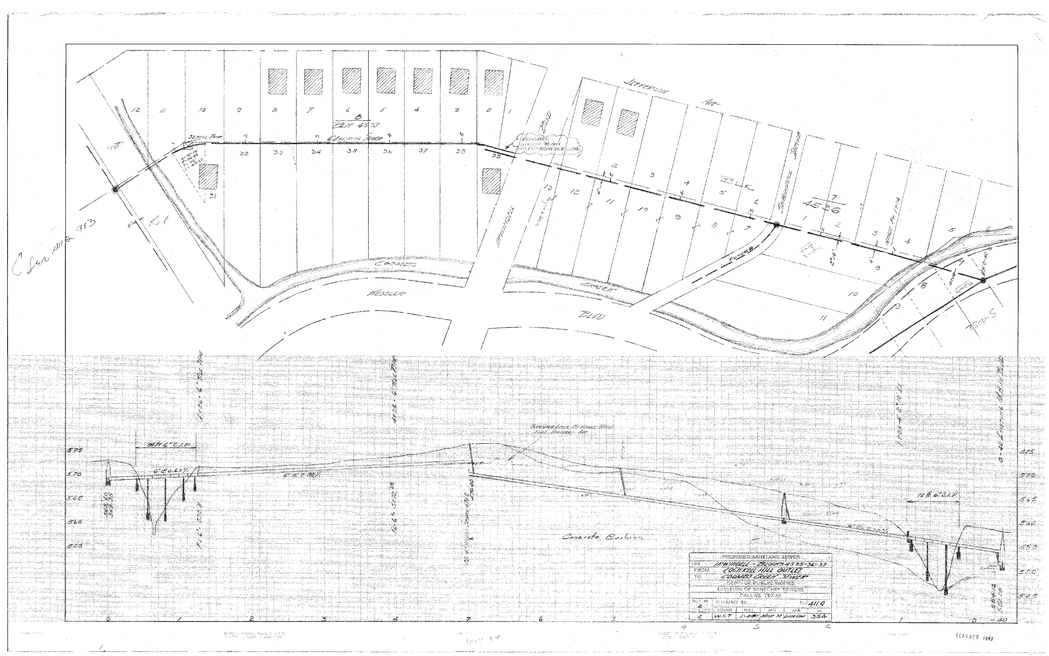

CAUTION ~ FIBER OPTIC !
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working Days Prior To Constuction.
Tele: 1-800-344-8377

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

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

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

BENCHMARK: 53-F-4
A square is cut at the Midpoint of a concrete curb on the Southeast corner of the Intersection of Gilpin Avenue and Jefferson Boulevard.
ELEV = 595.99

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A Standard Water Department Bench Mark is set on a concrete curb of storm sewer inlet on the southeast corner of an Intersection of Westmoreland Road and Brooklyndell Avenue
ELEV = 611.60

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

STATE OF TEXAS
MEREDITH G. McCALL
105081
LICENSED
PROFESSIONAL ENGINEER

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REFERENCES
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3IW-33, 32W-32, & 32W-33
WASTEWATER
31S-33 & 32S-33

Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

CONTRACT NO. 21-049/150 | PID: 6118

AERIAL CROSSING DEMOLITION

ESMT S.OF JEFFERSON BOULEVARD
COOMBS CREEK WEST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
PK	PK	FEB 2021	411Q	3054	132

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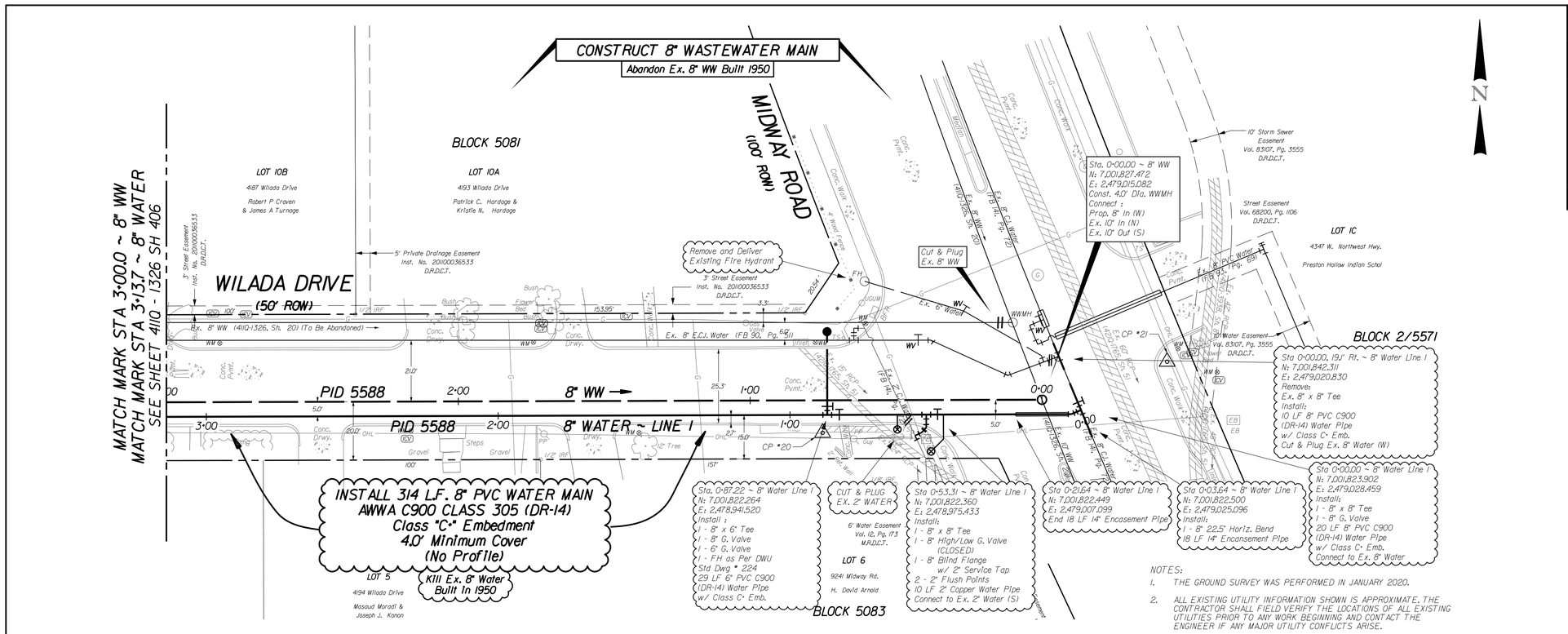

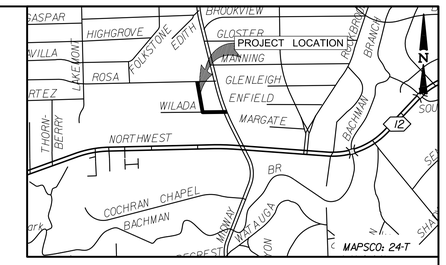

CAUTION ~ GAS !
Underground Gas Main In Area
Contact ATMOS Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005

CAUTION ~ CABLE !
Overhead Cable In Area
Contact Cable Co. Two Working Days Prior To Constuction.
Tele: 1-800-344-8377

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

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

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

24-T-5S
A STANDARD WATER DEPARTMENT BENCHMARK IS FOUND ON TOP OF THE CONCRETE NOSE OF MEDIAN ON SOUTH SIDE OF THE INTERSECTION OF MIDWAY ROAD AND 30' SOUTH OF THE CENTERLINE OF MANNING ROAD.
ELEV = 517.24'

24-T-7S
A STANDARD WATER DEPARTMENT BENCHMARK IS FOUND ON TOP OF THE CONCRETE CURB ON THE SOUTH SIDE OF WOODFIN DRIVE AND 60' EAST OF THE CENTERLINE OF MIDWAY ROAD.
ELEV = 537.25'

Point	Northing	Easting	Elev.	Description
CP-20	7,001,816.138	2,478,939.925	502.50	X CUT ON INLET
CP-21	7,001,840.366	2,479,058.014	500.23	X CUT ON SDWK

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

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER
Justin Toone
2/5/21

REFERENCES
WATER
23-21W
WASTEWATER
23-21S

Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH: 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

IEA
18333 PRESTON ROAD
SUITE 205
DALLAS, TEXAS 75252
(214) 884-4253
FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 5588

8" WATER & 8" WASTEWATER
ALLEY WEST OF MIDWAY ROAD
FROM ROSA ROAD TO WILADA DRIVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	411Q	1326	405

5588_W_WW_00.dgn

PLOT SCALE: 20.0000 ' / in.
PLOT DATE: 2/5/2021 BY USER: jtoone
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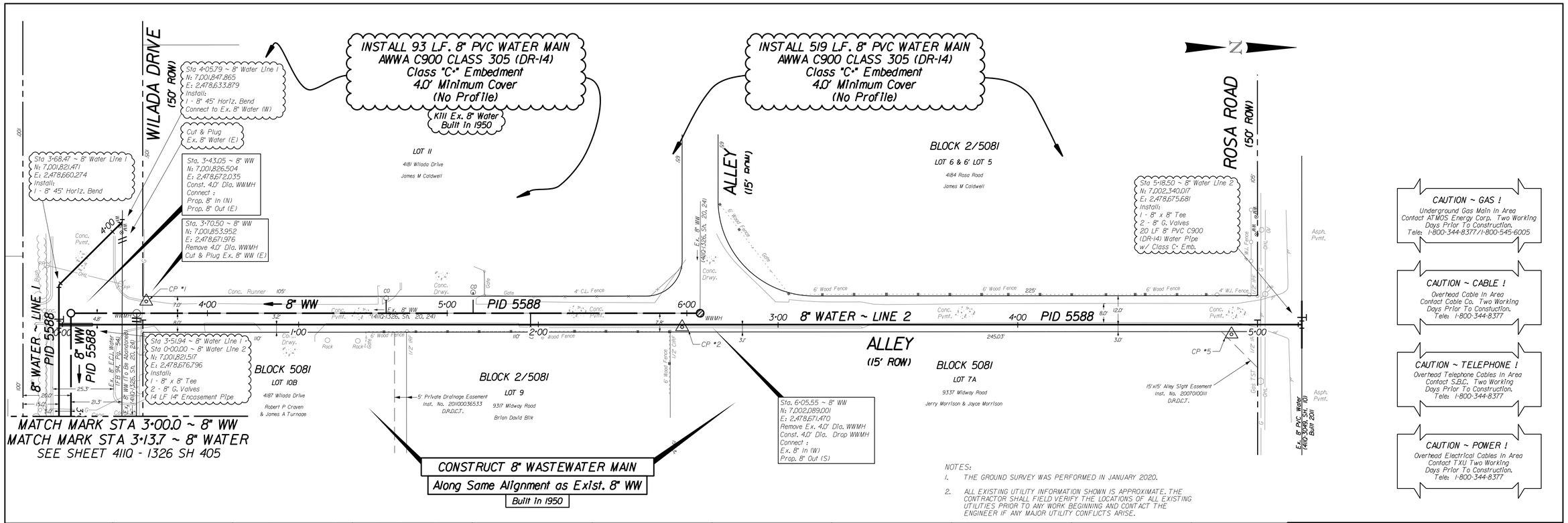
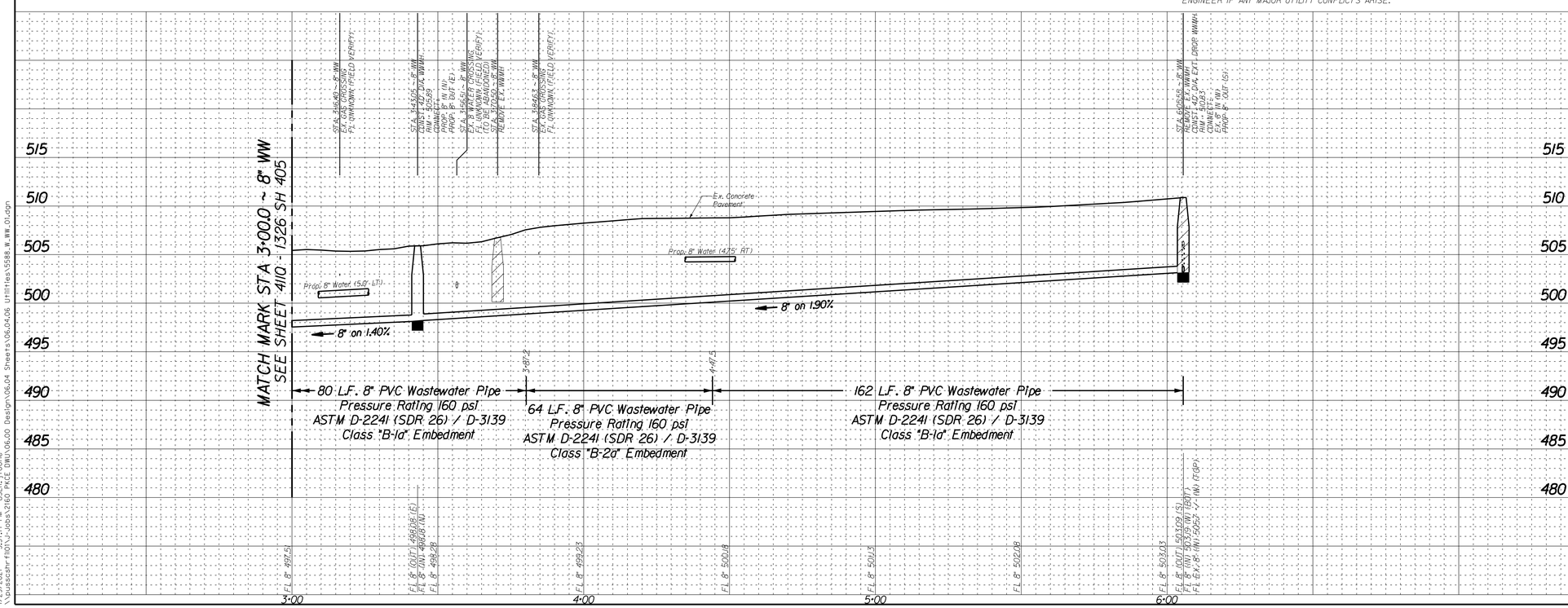


NOTES:

1. THE GROUND SURVEY WAS PERFORMED IN JANUARY 2020.
2. 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 MAJOR UTILITY CONFLICTS ARISE.



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

24-T-5S
A STANDARD WATER DEPARTMENT BENCHMARK IS FOUND ON TOP OF THE CONCRETE NOSE OF MEDIAN ON SOUTH SIDE OF THE INTERSECTION OF MIDWAY ROAD AND 30' SOUTH OF THE CENTERLINE OF MANNING ROAD.
ELEV = 517.24'

24-T-7S
A STANDARD WATER DEPARTMENT BENCHMARK IS FOUND ON TOP OF THE CONCRETE CURB ON THE SOUTH SIDE OF WOODFIN DRIVE AND 60' EAST OF THE CENTERLINE OF MIDWAY ROAD.
ELEV = 537.25'

Point	Northing	Easting	Elev.	Description
CP-1	7,001,857.9022	2,478,666.9973	511.62	X CUT IN CONC
CP-5	7,002,310.6672	2,478,679.7465	515.03	1/2 CIR SET

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

REFERENCES
WATER
23-21W
WASTEWATER
23-21S

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER
Justin Toone
2/5/21

Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH: 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

IEA
18333 PRESTON ROAD
SUITE 205
DALLAS, TEXAS 75252
(214) 884-4253
FIRM REGISTRATION No.
F-10161

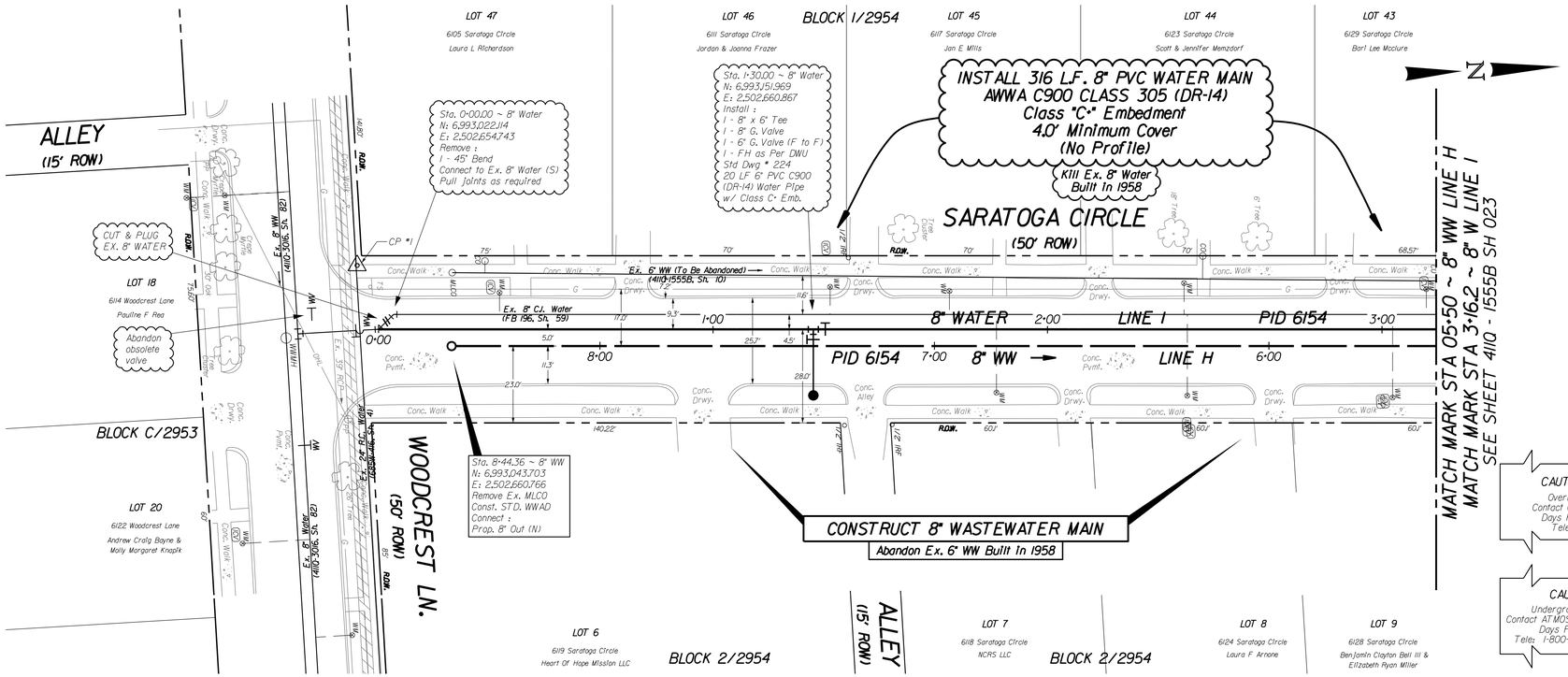
CONTRACT NO. 21-049/050 | PID: 5588

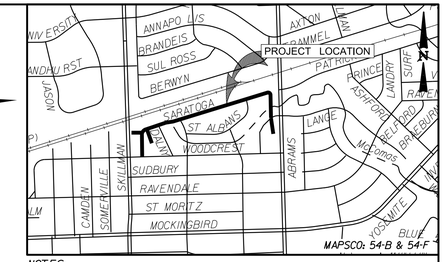
8" WATER & 8" WASTEWATER
ALLEY WEST OF MIDWAY ROAD
FROM ROSA ROAD TO WILADA DRIVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1326	406

5588_W_WW_01.dgn

PLOT SCALE: 20.0000 / in.
PLOT DATE: 2/12/2021 USER: jtoone
\\pussbsrf1101\J-Jobs\2160 PKCE DWG\06.00 Design\06.04 Sheets\06.04 Utilities\5588_W_WW_01.dgn





NOTES:

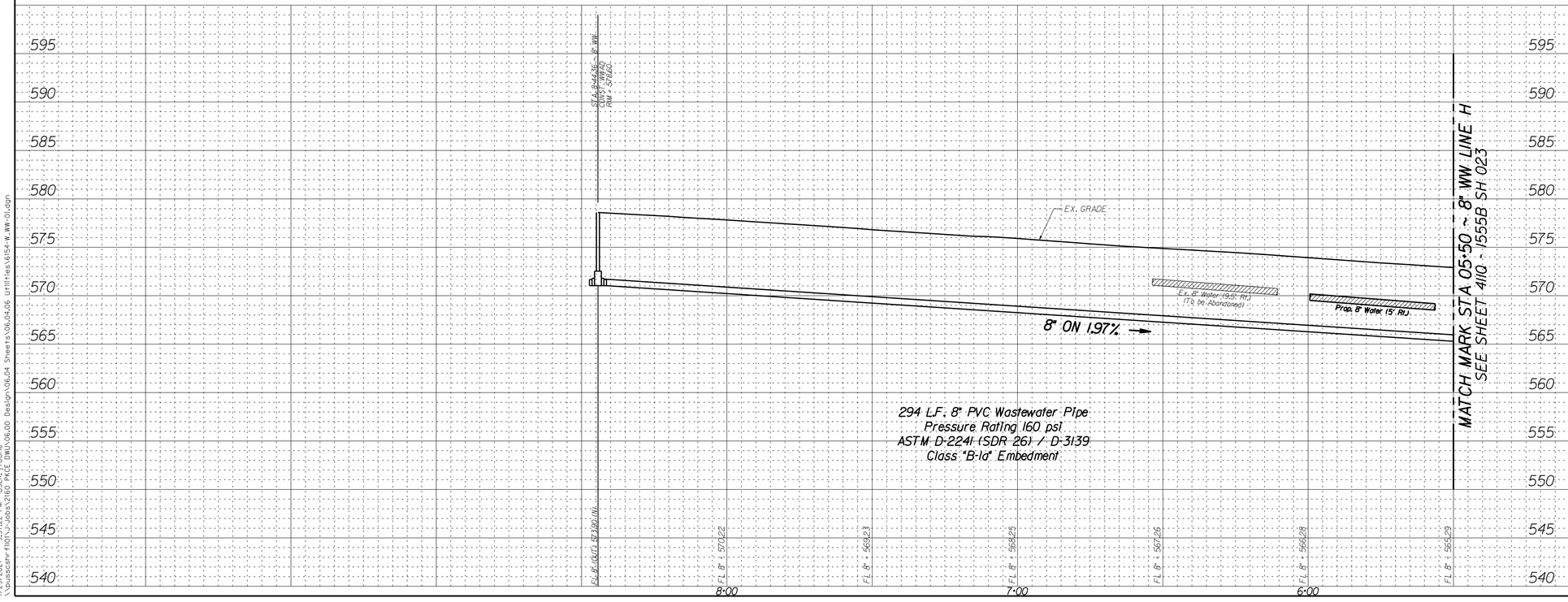
1. THE GROUND SURVEY WAS PERFORMED IN MARCH 2020. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY.
2. ALL EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY WORK BEGINNING AND CONTACT THE ENGINEER IF ANY MAJOR UTILITY CONFLICTS ARISE.

CAUTION ~ CABLE !
Overhead Cable In Area
Contact Cable Co. Two Working
Days Prior To Constuction.
Tele: 1-800-344-8377

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



REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

36-H-6S
STD. WDBM IS FOUND AT MIDPOINT ON CONCRETE CURB OF THE INTERSECTION OF ABRAM ROAD AND DANBURY LANE.
ELEV = 556.09'

36-K-8S
STD. WDBM IS FOUND ON STORM SEWER DROP INLET ON NORTHEAST CORNER OF THE INTERSECTION OF GREENVILLE AVENUE AND ELSWORTH AVENUE.
ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-1	6,993,016.621	2,502,635.347	579.71	X CUT ON WALK
CP-2	6,993,422.616	2,502,699.458	571.31	X CUT ON WALK

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

REFERENCES
WATER
27-29W & 27-30W
WASTEWATER
27-29S & 27-30S

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER
Justin Toone
2/5/21

Pacheco Koch
7557 RAMBLER ROAD. SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

IEA
18333 PRESTON ROAD
SUITE 205
DALLAS, TEXAS 75252
(214) 884-4253
FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WATER & 8" WASTEWATER
SARATOGA CIRCLE
FROM WOODCREST LN TO WOODCREST LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1555B	022

PLOT SCALE: 20.0000 ' / in.
PLOT DATE: 2/5/2021 3:32:22 PM USER: jtoone
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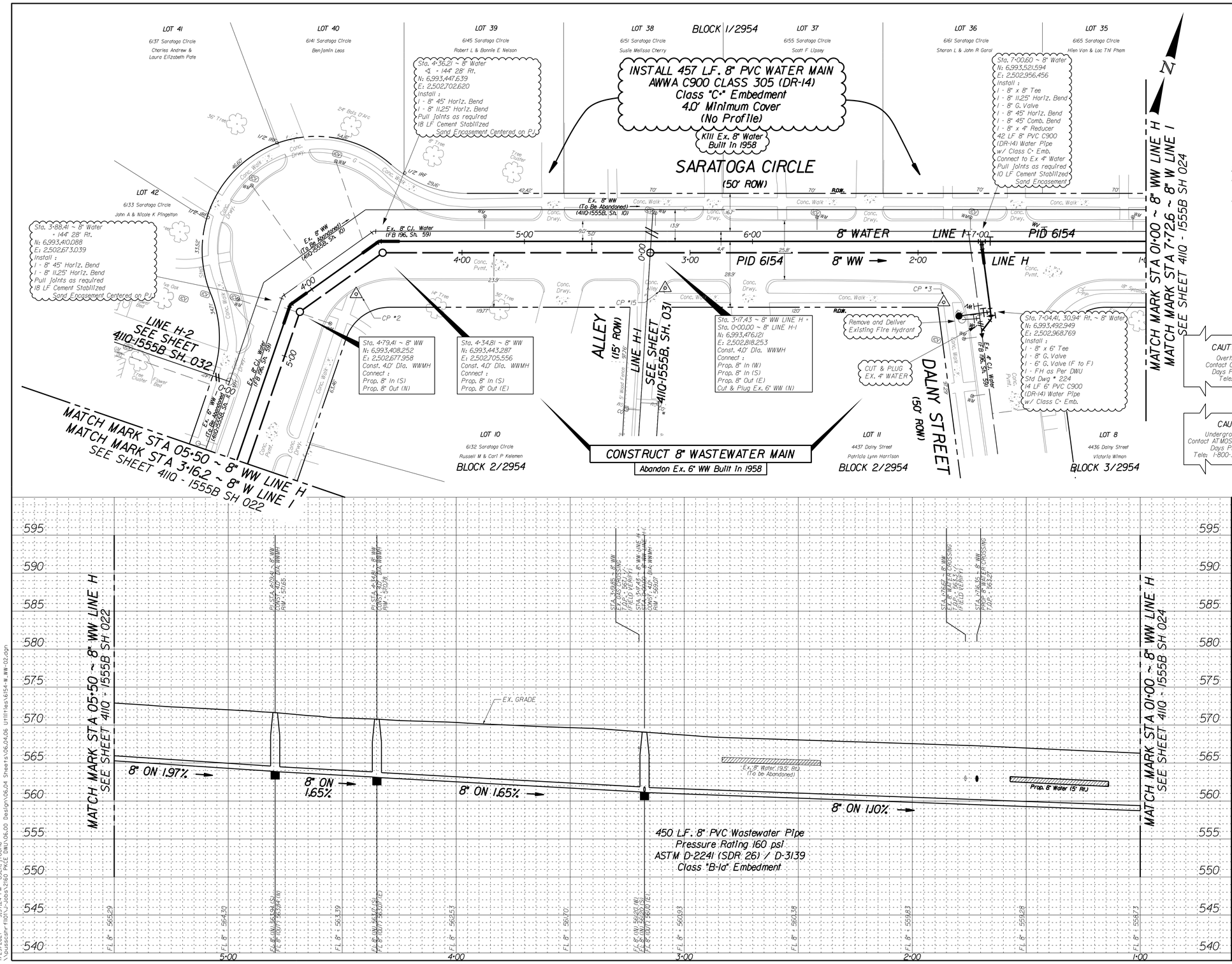

NOTES:

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CAUTION ~ CABLE !
Overhead Cable In Area
Contact Cable Co. Two Working Days Prior To Constuction.
Tele: 1-800-344-8377

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

PLOT SCALE: 20.0000 ' / in.
PLOT DATE: 2/5/2021 3:53:53 PM BY: jtoone
\\pusascnr-fil01\J-Jobs\2160 PKCE DWU\06.00 Design\06.04 Sheets\06.04.06 Utilities\6154-W_WW-02.dgn

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

36-H-6S
STD. WDBM IS FOUND AT MIDPOINT ON CONCRETE CURB OF THE INTERSECTION OF ABRAM ROAD AND DANBURY LANE.
ELEV = 556.09'

36-K-8S
STD. WDBM IS FOUND ON STORM SEWER DROP INLET ON NORTHEAST CORNER OF THE INTERSECTION OF GREENVILLE AVENUE AND ELSWORTH AVENUE.
ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-2	6,993,422.616	2,502,699.458	571.31	X CUT ON WALK
CP-3	6,993,491.267	2,502,947.917	567.71	X CUT ON WALK
CP-15	6,993,463.061	2,502,828.868	596.22	X CUT ON CURB

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

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER

Justin Toone
2/5/21

REFERENCES
WATER
27-29W & 27-30W
WASTEWATER
27-29S & 27-30S

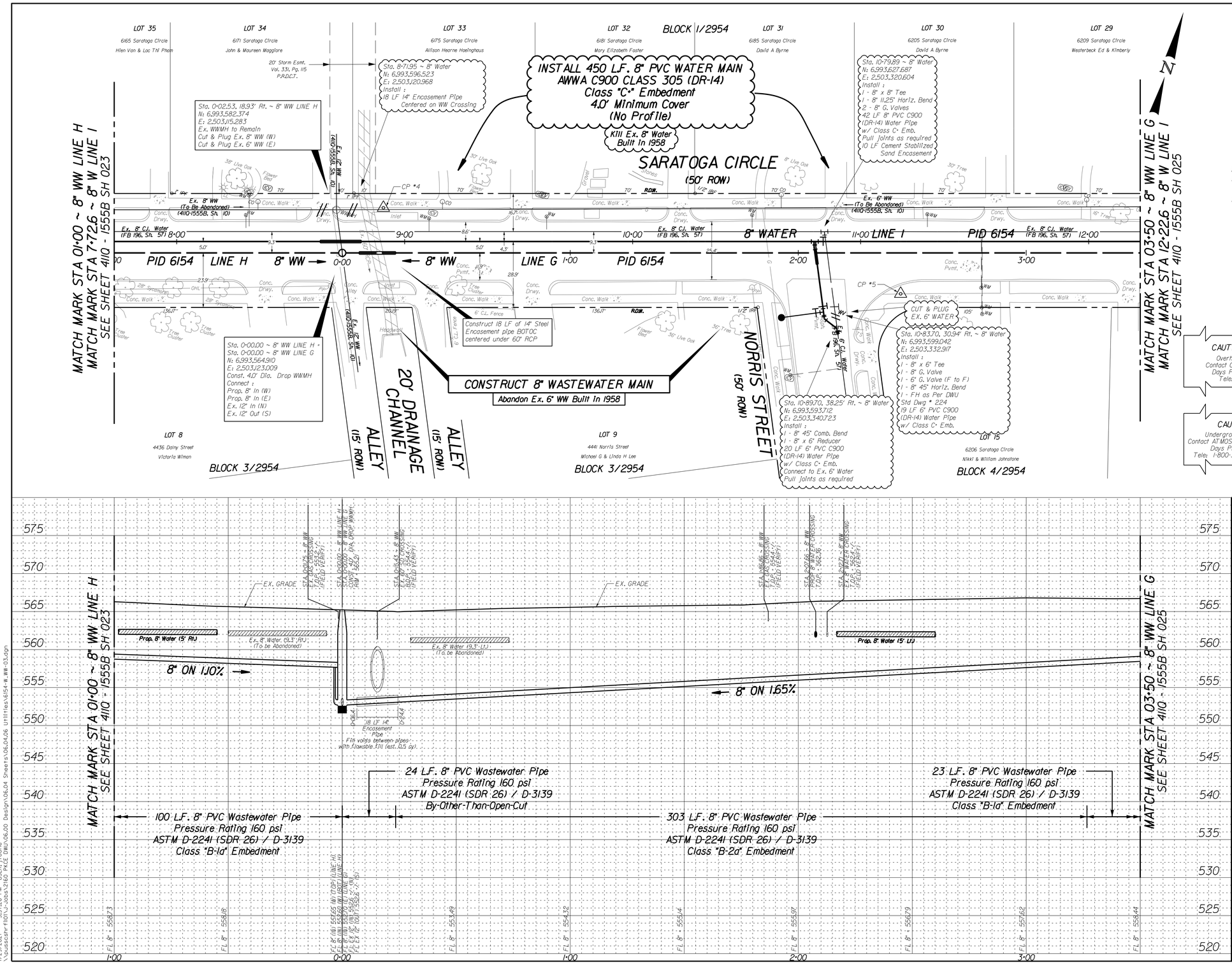
Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH: 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

IEA
18333 PRESTON ROAD
SUITE 205
DALLAS, TEXAS 75252
(214) 884-4253
FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WATER & 8" WASTEWATER
SARATOGA CIRCLE
FROM WOODCREST LN TO WOODCREST LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1555B	023



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REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

36-H-6S
STD. WDBM IS FOUND AT MIDPOINT ON CONCRETE CURB OF THE INTERSECTION OF ABRAM ROAD AND DANBURY LANE.
ELEV = 556.09'

36-K-8S
STD. WDBM IS FOUND ON STORM SEWER DROP INLET ON NORTHEAST CORNER OF THE INTERSECTION OF GREENVILLE AVENUE AND ELSWORTH AVENUE.
ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-4	6,993,588.9560	2,503,134.8160	565.23	X CUT ON WALK
CP-5	6,993,616.0140	2,503,363.4100	566.45	X CUT ON WALK

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

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER
Justin Toone
2/5/21

REFERENCES
WATER
27-29W & 27-30W
WASTEWATER
27-29S & 27-30S

Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

IEA
18333 PRESTON ROAD
SUITE 205
DALLAS, TEXAS 75252
(214) 884-4253
FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WATER & 8" WASTEWATER

SARATOGA CIRCLE
FROM WOODCREST LN TO WOODCREST LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1555B	024

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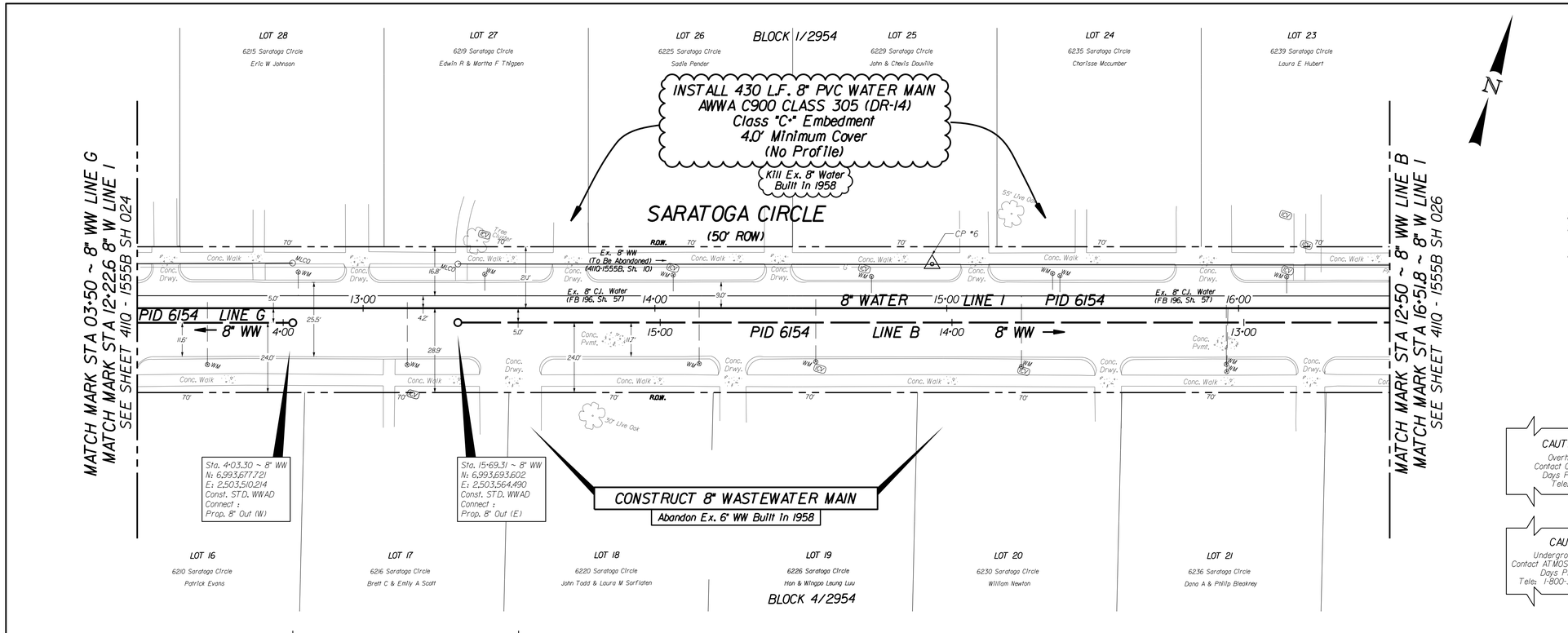

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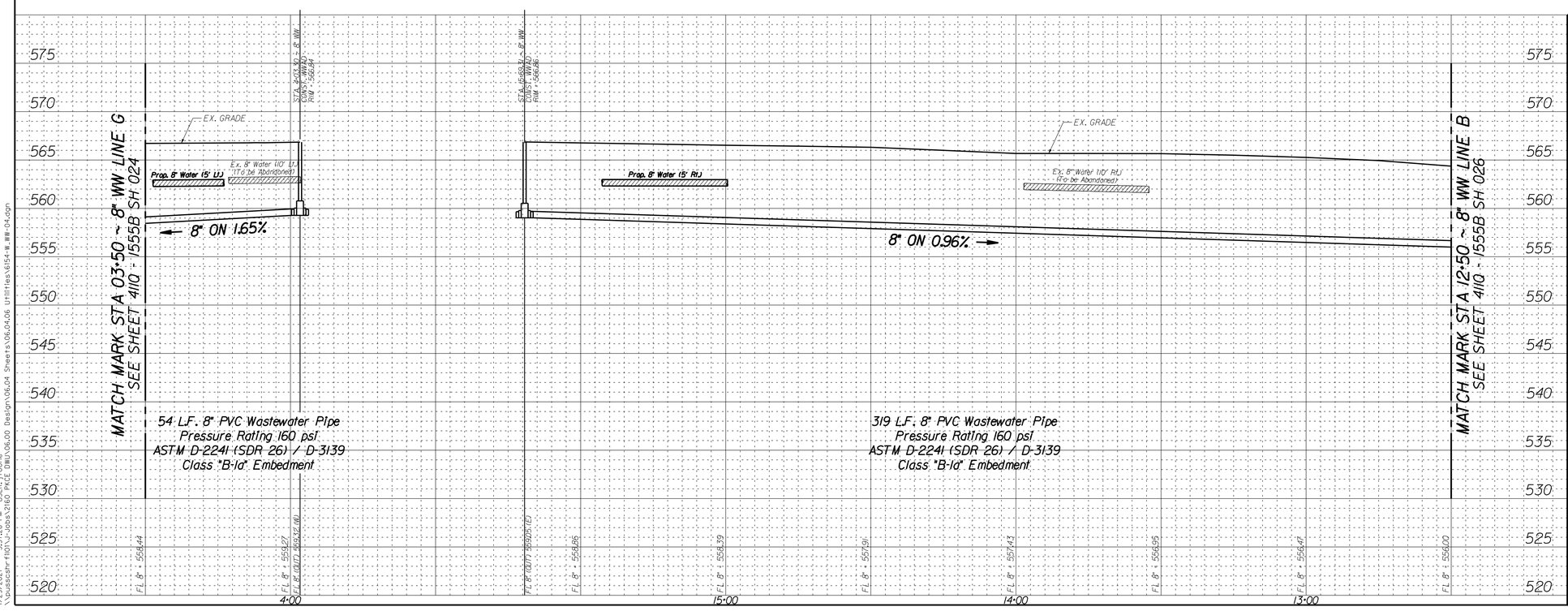
CAUTION ~ CABLE !
Overhead Cable In Area
Contact Cable Co. Two Working
Days Prior To Constuction.
Tele: 1-800-344-8377

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



REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

36-H-6S
STD. WDBM IS FOUND AT MIDPOINT ON CONCRETE CURB OF THE INTERSECTION OF ABRAM ROAD AND DANBURY LANE.
ELEV = 556.09'

36-K-8S
STD. WDBM IS FOUND ON STORM SEWER DROP INLET ON NORTHEAST CORNER OF THE INTERSECTION OF GREENVILLE AVENUE AND ELSWORTH AVENUE.
ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-5	6,993,616.1040	2,503,363.4100	566.45	X CUT ON WALK
CP-6	6,993,758.3240	2,503,714.8850	566.45	X CUT ON WALK

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

REFERENCES
WATER
27-29W & 27-30W
WASTEWATER
27-29S & 27-30S

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER

Justin Toone
2/5/21

Pacheco Koch
7557 RAMBLER ROAD. SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

IEA
18333 PRESTON ROAD
SUITE 205
DALLAS, TEXAS 75252
(214) 884-4253
FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WATER & 8" WASTEWATER
SARATOGA CIRCLE
FROM WOODCREST LN TO WOODCREST LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1555B	025

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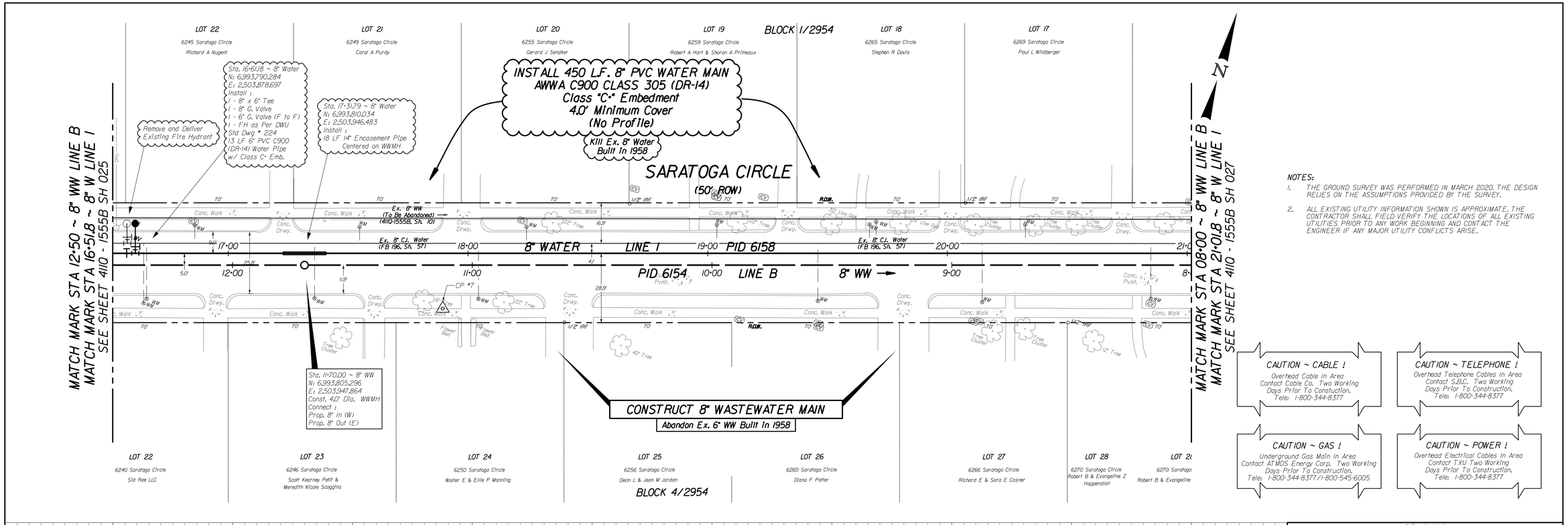

NOTES:

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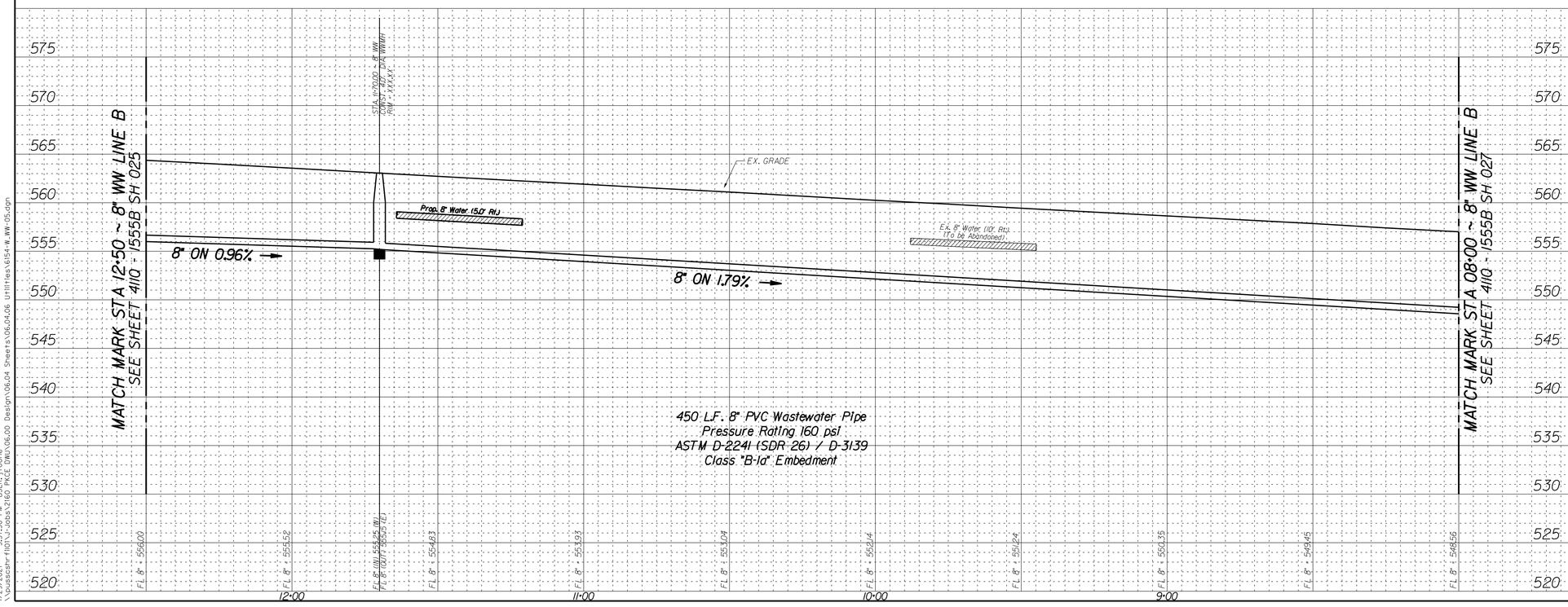
CAUTION ~ CABLE !
Overhead Cable In Area
Contact Cable Co. Two Working
Days Prior To Constuction.
Tele: 1-800-344-8377

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



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
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2			

BENCHMARKS & CONTROL POINTS

36-H-6S
STD. WDBM IS FOUND AT MIDPOINT ON CONCRETE CURB OF THE INTERSECTION OF ABRAM ROAD AND DANBURY LANE.
ELEV = 556.09'

36-K-8S
STD. WDBM IS FOUND ON STORM SEWER DROP INLET ON NORTHEAST CORNER OF THE INTERSECTION OF GREENVILLE AVENUE AND ELSWORTH AVENUE.
ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-7	6,993,804.0490	2,504,008.2910	562.61	X CUT ON WALK
CP-8	6,993,907.2280	2,504,362.1480	556.41	X CUT ON WALK

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

REFERENCES
WATER
27-29W & 27-30W
WASTEWATER
27-29S & 27-30S

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER

Justin Toone
2/5/21

Pacheco Koch
7557 RAMBLER ROAD. SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

IEA
18333 PRESTON ROAD
SUITE 205
DALLAS, TEXAS 75252
(214) 884-4253
FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WATER & 8" WASTEWATER
SARATOGA CIRCLE
FROM WOODCREST LN TO WOODCREST LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1555B	026

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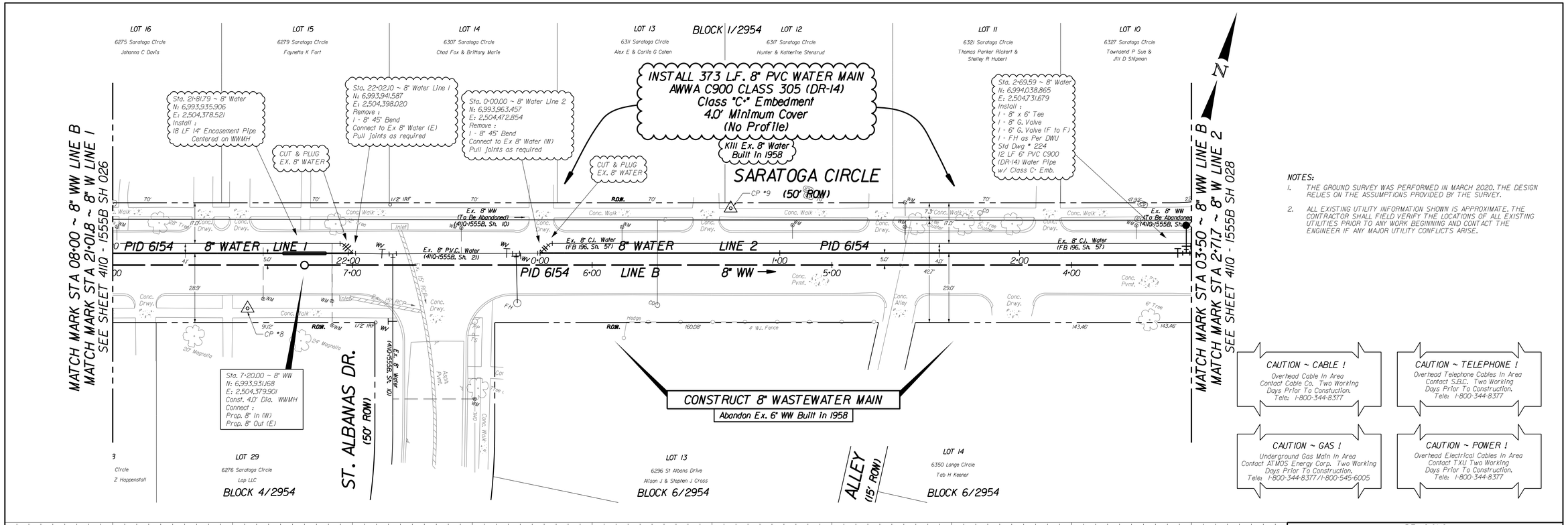

NOTES:

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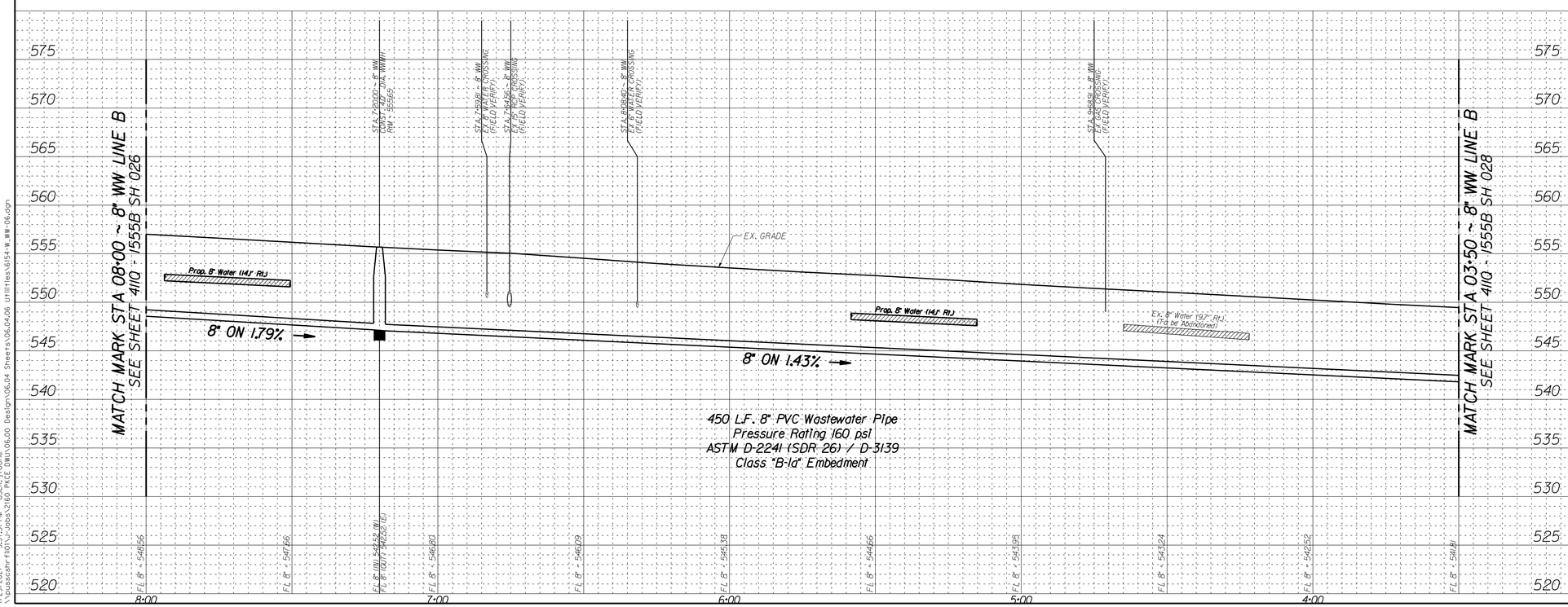

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REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

36-H-6S
STD. WDBM IS FOUND AT MIDPOINT ON CONCRETE CURB OF THE INTERSECTION OF ABRAM ROAD AND DANBURY LANE.
ELEV = 556.09'

36-K-8S
STD. WDBM IS FOUND ON STORM SEWER DROP INLET ON NORTHEAST CORNER OF THE INTERSECTION OF GREENVILLE AVENUE AND ELSWORTH AVENUE.
ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-8	6,993,907.2280	2,504,362.1480	556.41	X CUT ON WALK
CP-9	6,994,003.6600	2,504,543.9680	553.12	X CUT ON WALK

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

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER

Justin Toone
2/5/21

REFERENCES
WATER
27-29W & 27-30W
WASTEWATER
27-29S & 27-30S

Pacheco Koch
7557 RAMBLER ROAD. SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

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(214) 884-4253
FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WATER & 8" WASTEWATER

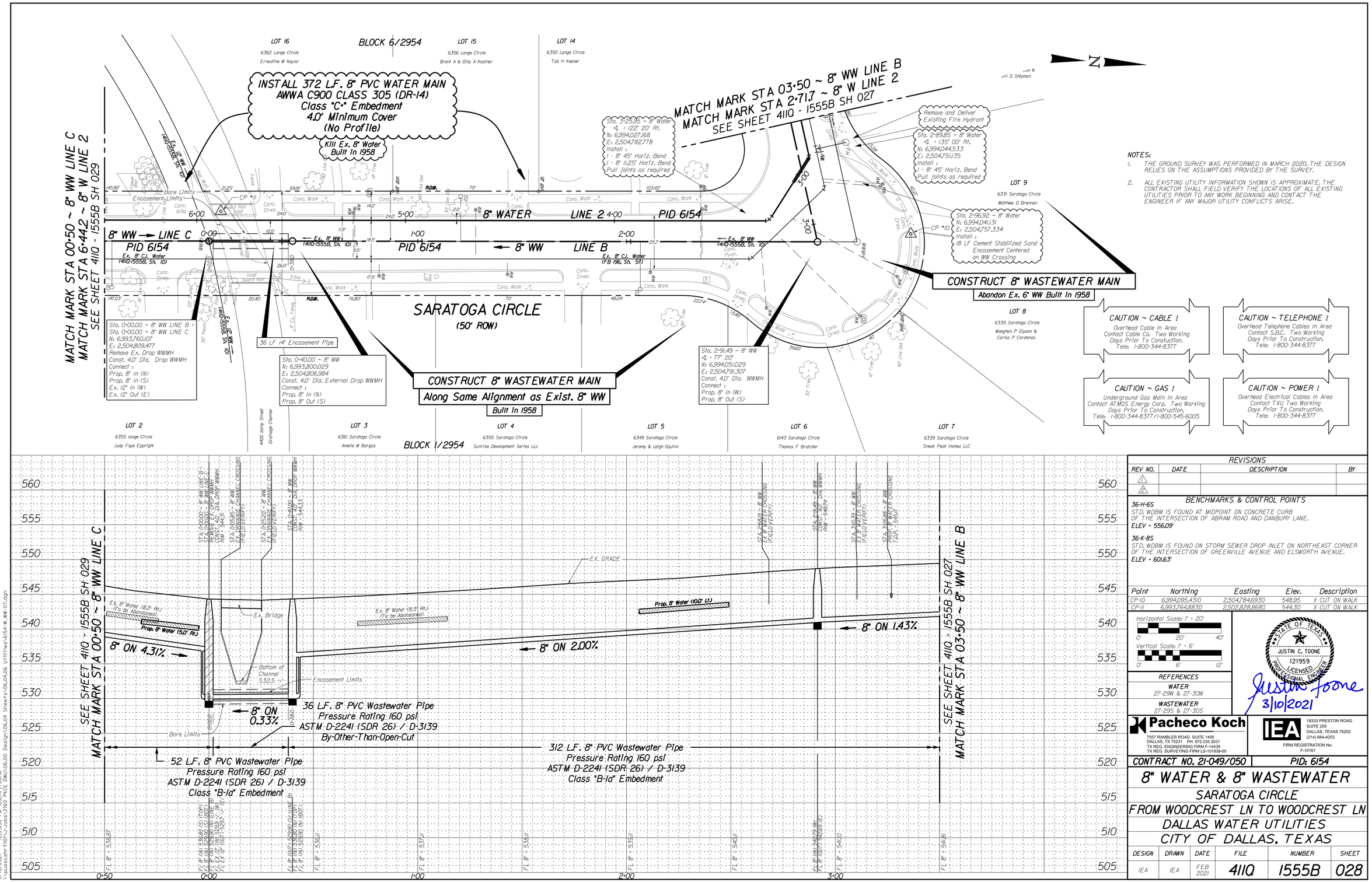
SARATOGA CIRCLE

FROM WOODCREST LN TO WOODCREST LN

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1555B	027



NOTES:

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REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

36-H-6S
STD. WDBM IS FOUND AT MIDPOINT ON CONCRETE CURB OF THE INTERSECTION OF ABRAM ROAD AND DANBURY LANE.
ELEV = 556.09'

36-K-8S
STD. WDBM IS FOUND ON STORM SEWER DROP INLET ON NORTHEAST CORNER OF THE INTERSECTION OF GREENVILLE AVENUE AND ELSWORTH AVENUE.
ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-10	6,994,095.4310	2,504,784.6930	548.95	X CUT ON WALK
CP-11	6,993,764.8830	2,502,828.8680	544.30	X CUT ON WALK

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

REFERENCES
WATER
27-29W & 27-30W
WASTEWATER
27-29S & 27-30S

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER
Justin Toone
3/10/2021

Pacheco Koch
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

IEA
18333 PRESTON ROAD
SUITE 205
DALLAS, TEXAS 75252
(214) 884-4253
FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WATER & 8" WASTEWATER

SARATOGA CIRCLE

FROM WOODCREST LN TO WOODCREST LN

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
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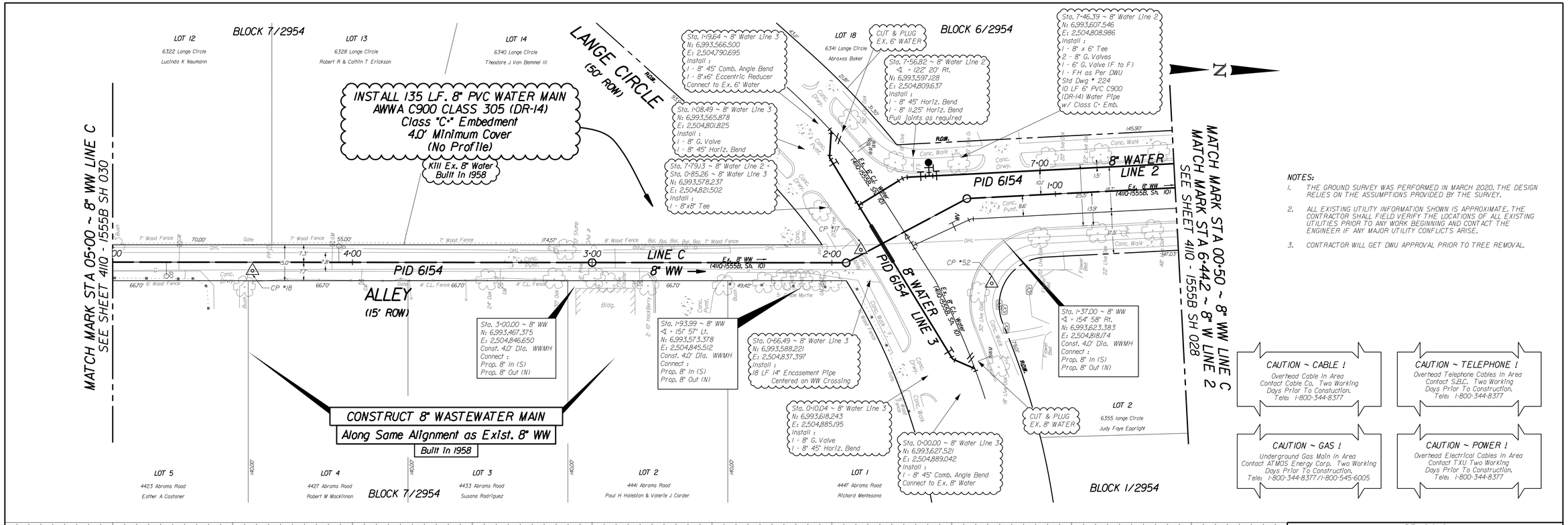

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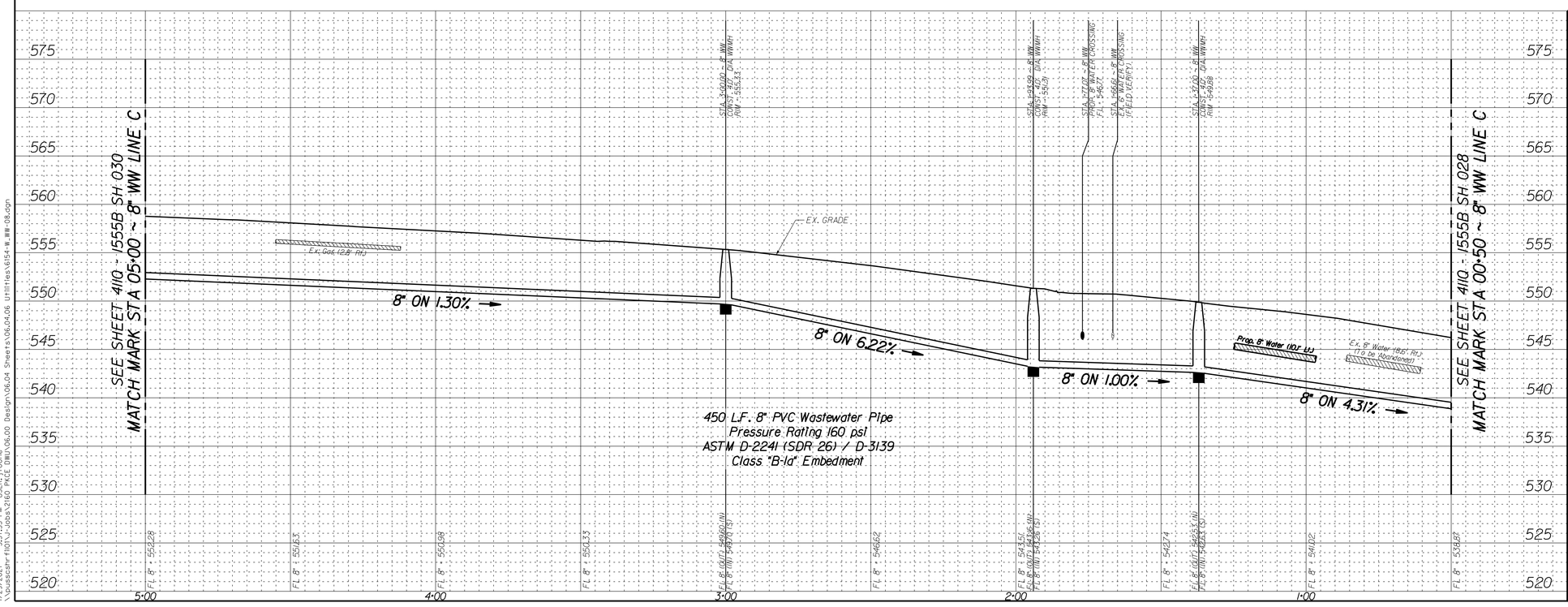
3. CONTRACTOR WILL GET DWU APPROVAL PRIOR TO TREE REMOVAL.

CAUTION ~ CABLE !
Overhead Cable In Area
Contact Cable Co. Two Working
Days Prior To Constuction.
Tele: 1-800-344-8377

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



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REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

BENCHMARKS & CONTROL POINTS

36-H-6S
STD. WDBM IS FOUND AT MIDPOINT ON CONCRETE CURB OF THE INTERSECTION OF ABRAM ROAD AND DANBURY LANE.
ELEV = 556.09'

36-K-8S
STD. WDBM IS FOUND ON STORM SEWER DROP INLET ON NORTHEAST CORNER OF THE INTERSECTION OF GREENVILLE AVENUE AND ELSWORTH AVENUE.
ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-17	6,993,579.3800	2,504,840.0250	551.02	X CUT ON CURB
CP-18	6,993,325.7670	2,504,851.7950	557.84	X CUT ON CURB
CP-52	6,993,634.1410	2,504,853.3990	550.59	X CUT ON WALK

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

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER
Justin Toone
2/5/21

REFERENCES
WATER
27-29W & 27-30W
WASTEWATER
27-29S & 27-30S

Pacheco Koch
7557 RAMBLER ROAD. SUITE 1400
DALLAS, TX 75231 PH. 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-101938-05

IEA
18333 PRESTON ROAD
SUITE 205
DALLAS, TEXAS 75252
(214) 884-4253
FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WATER & 8" WASTEWATER
SARATOGA CIRCLE
FROM WOODCREST LN TO WOODCREST LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
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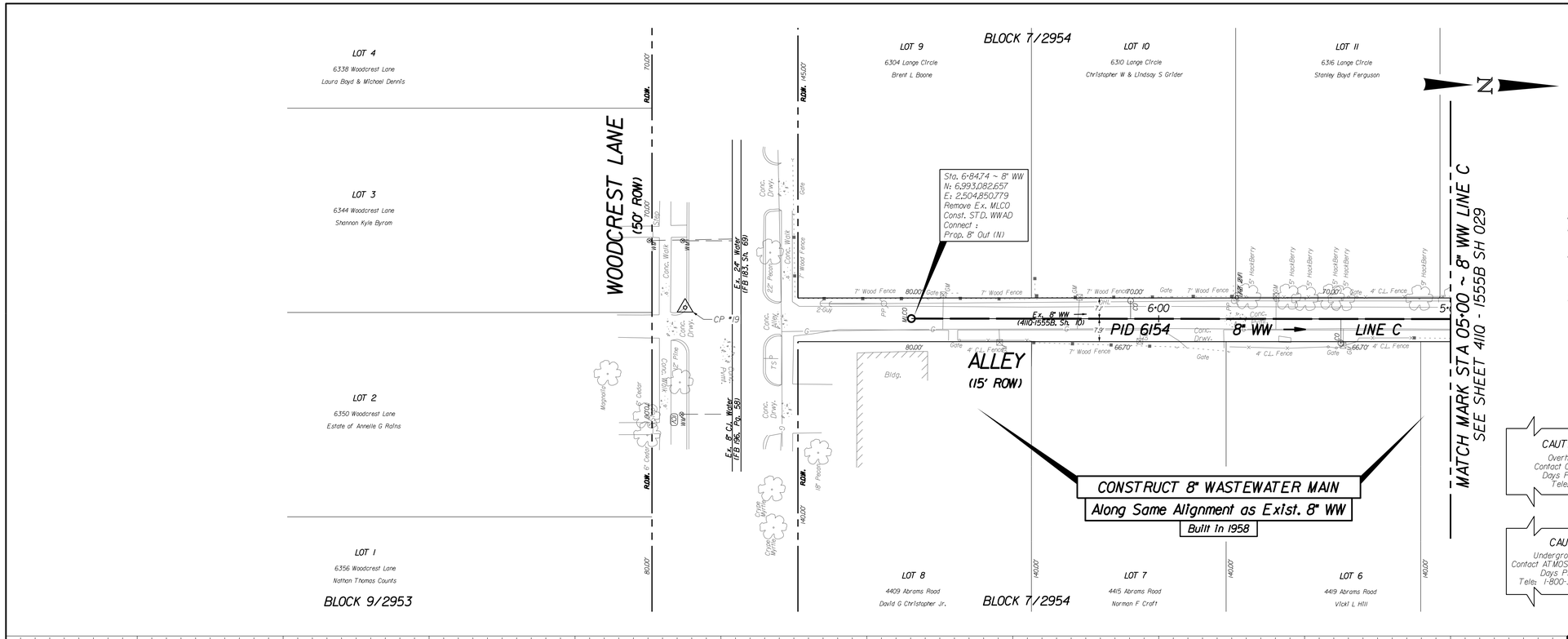

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CAUTION ~ GAS !
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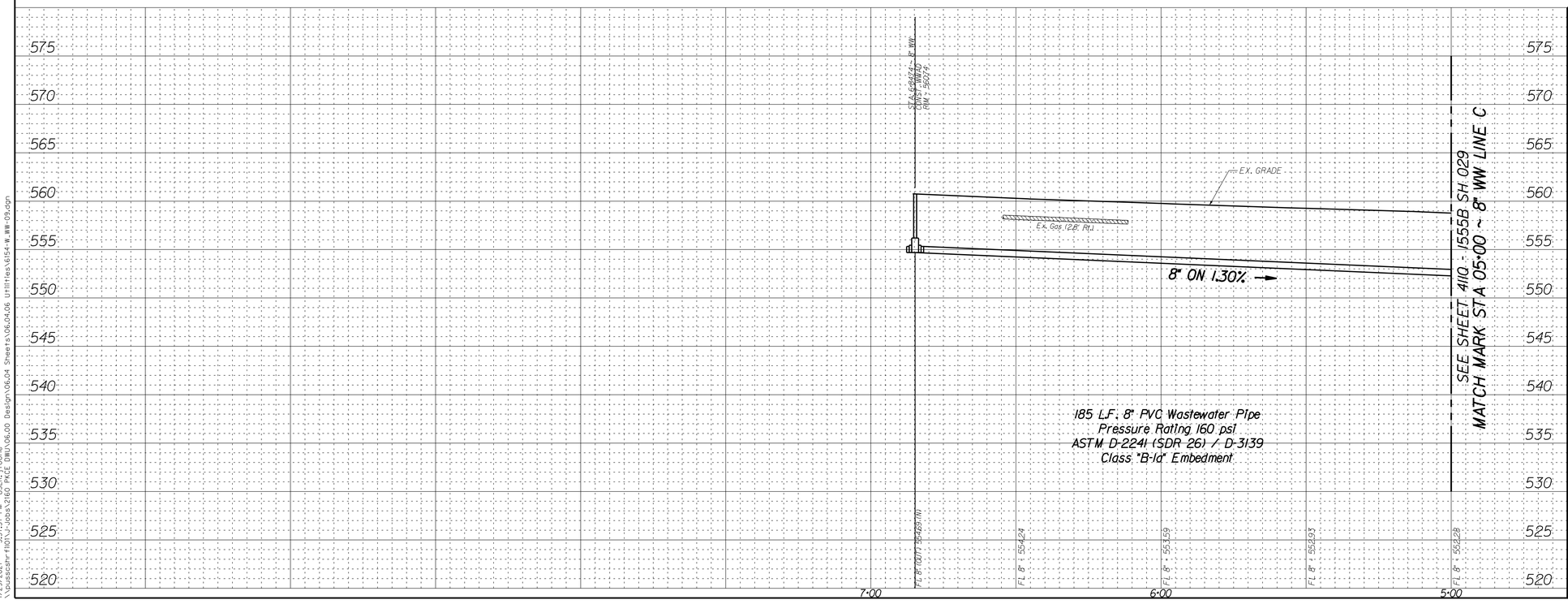
Days Prior To Construction.
Tele: 1-800-344-8377/1-800-545-6005

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



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
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STD. WDBM IS FOUND ON STORM SEWER DROP INLET ON NORTHEAST CORNER OF THE INTERSECTION OF GREENVILLE AVENUE AND ELSWORTH AVENUE.
ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-18	6,993,325.7670	2,504,851.7950	557.48	X CUT ON CURB
CP-19	6,993,004.9860	2,504,847.8200	561.25	X CUT ON CURB

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

STATE OF TEXAS
JUSTIN C. TOONE
121959
LICENSED
PROFESSIONAL ENGINEER

Justin Toone
2/5/21

REFERENCES
WATER
27-29W & 27-30W
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27-29S & 27-30S

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F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WATER & 8" WASTEWATER

SARATOGA CIRCLE
FROM WOODCREST LN TO WOODCREST LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1555B	030

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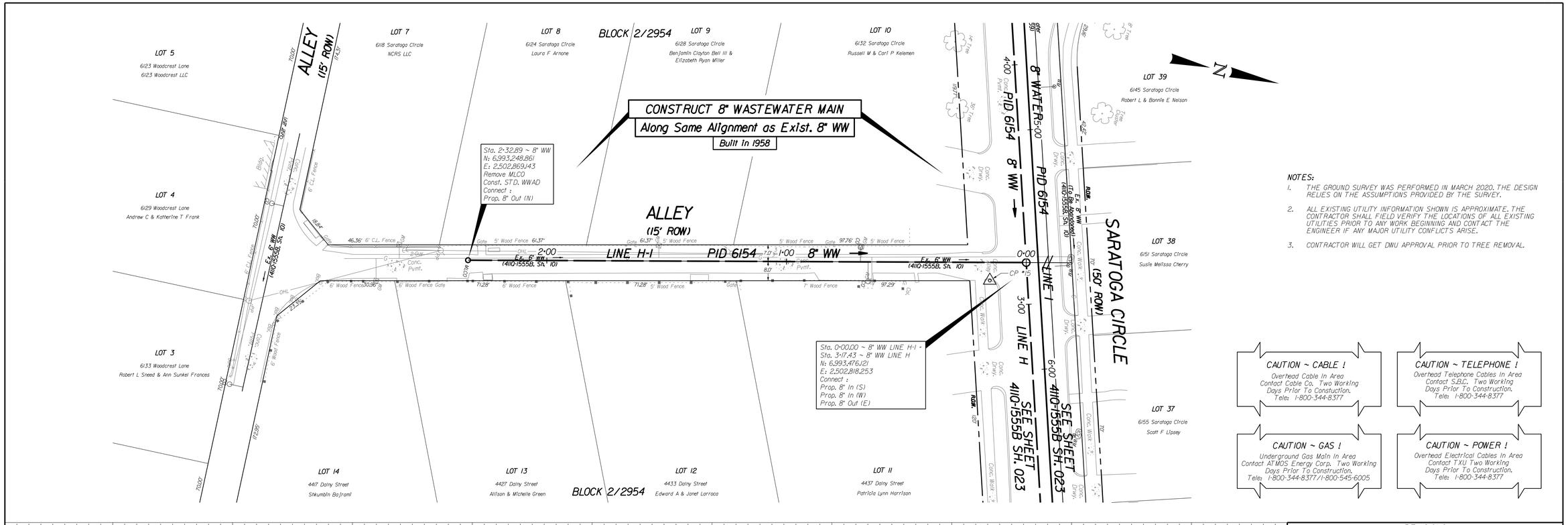

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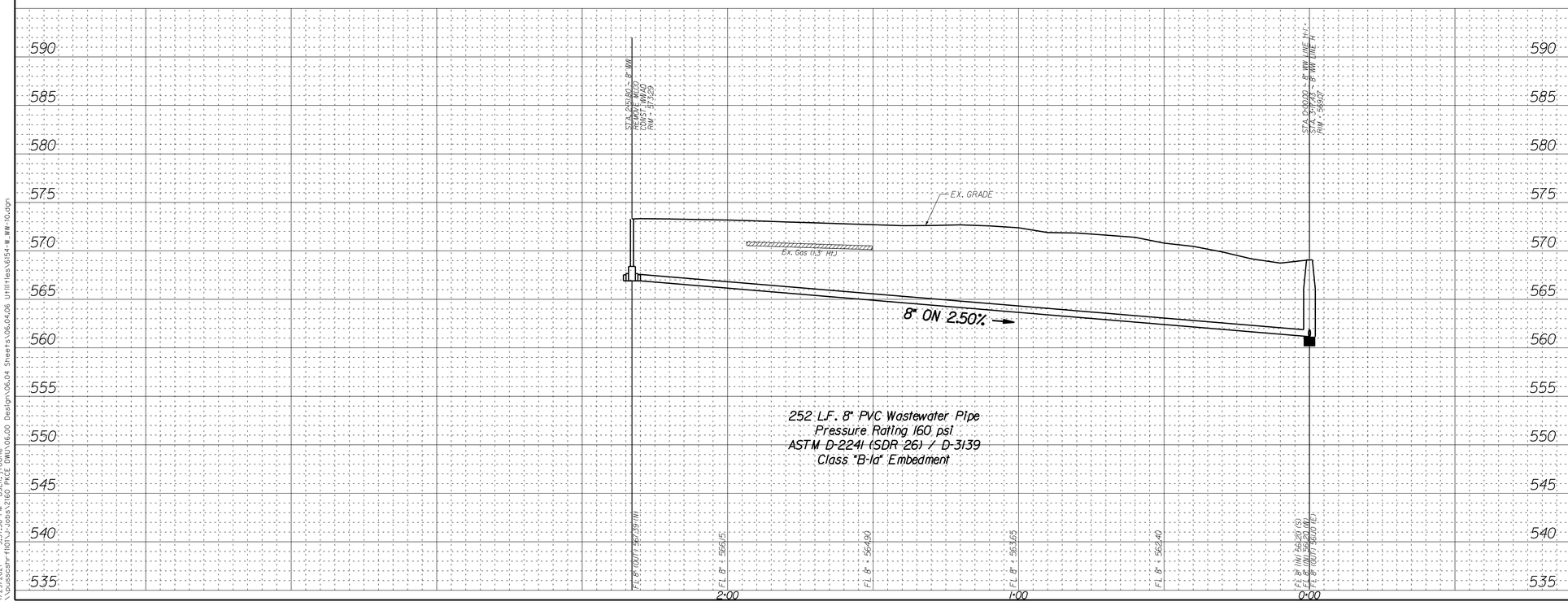

REVISIONS			
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ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-3	6,993,491.2670	2,502,947.9170	567.71	X CUT ON WALK
CP-15	6,993,463.0610	2,502,828.8680	569.22	X CUT ON CURB

Horizontal Scale: 1" = 20'
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LICENSED
PROFESSIONAL ENGINEER

Justin Toone
2/5/21

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FIRM REGISTRATION No.
F-10161

CONTRACT NO. 21-049/050 | PID: 6154

8" WASTEWATER
SARATOGA CIRCLE
FROM WOODCREST LN TO WOODCREST LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1555B	031

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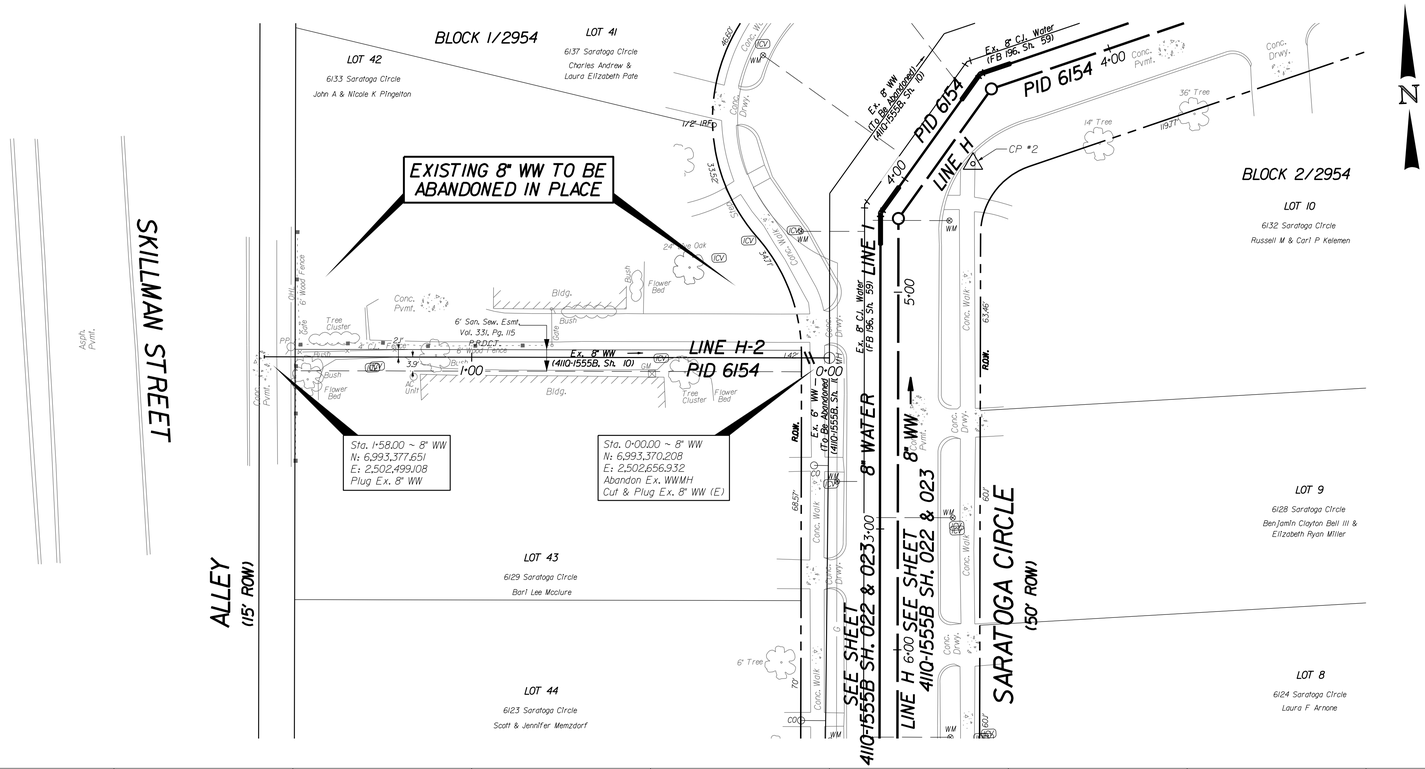

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ELEV = 601.63'

Point	Northing	Easting	Elev.	Description
CP-1	6,993,016.6210	2,502,635.3470	579.71	X CUT ON WALK
CP-2	6,993,422.6160	2,502,699.4580	571.31	X CUT ON WALK

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

STATE OF TEXAS
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Justin Toone
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FROM WOODCREST LN TO WOODCREST LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
IEA	IEA	FEB 2021	4110	1555B	032

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