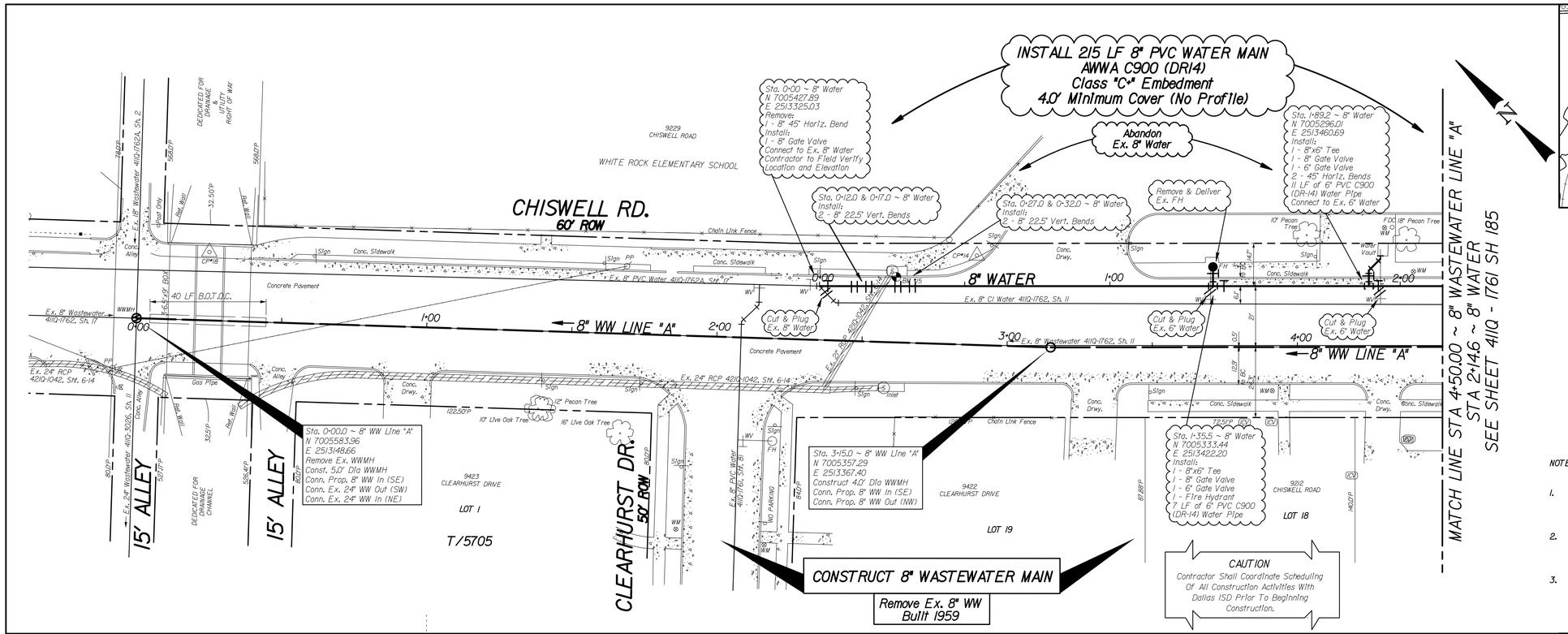
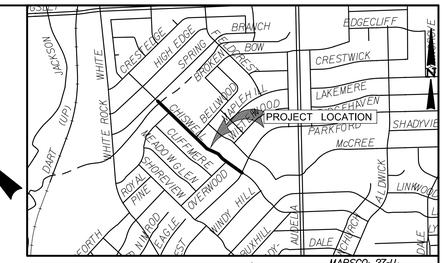


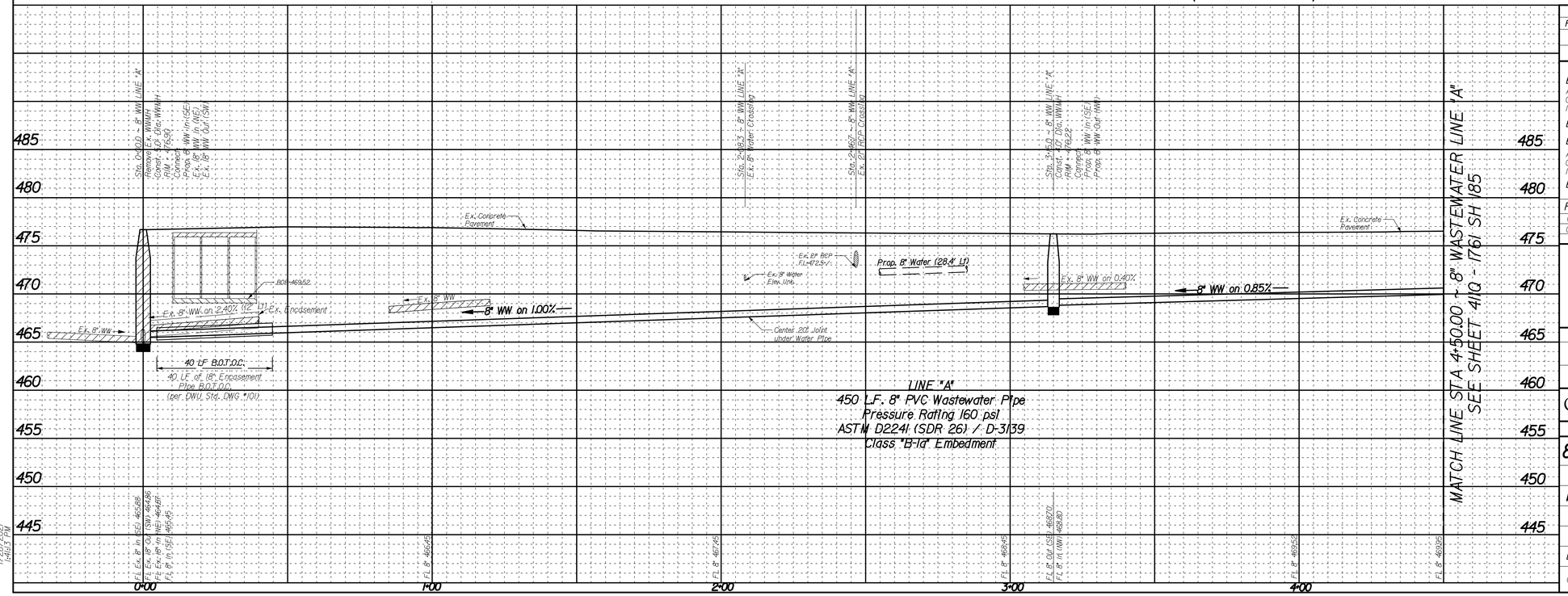




**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

**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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BY CP&Y, INC. ON 12/02/19. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
3. 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.

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| REVISIONS | | | |
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| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
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**BENCHMARKS & CONTROL POINTS**

BENCHMARK 27-U-1S
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND CHISWELL RD.
ELEV = 488.75

BENCHMARK 27-U-3S
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND LANSHIRE DR.
ELEV = 494.45

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-14 | 7005397.67 | 2513371.25 | 476.70 | X-CUT |
| CP-18 | 7005582.79 | 2513182.53 | 477.24 | X-CUT |

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

**REFERENCES**
WATER
21-32W, 22-33W
WASTEWATER
22-33S, 21-33S, 21-32S

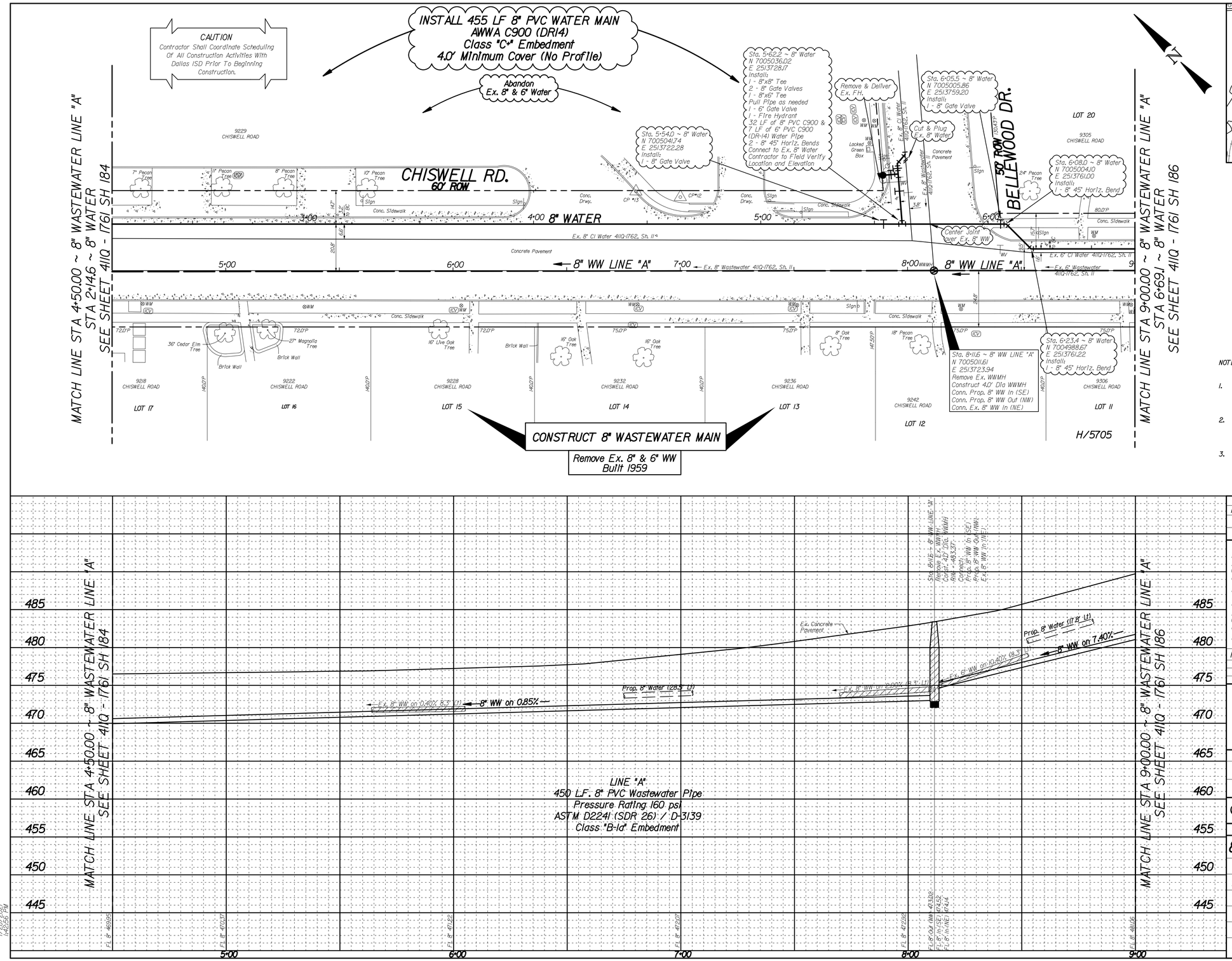
STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

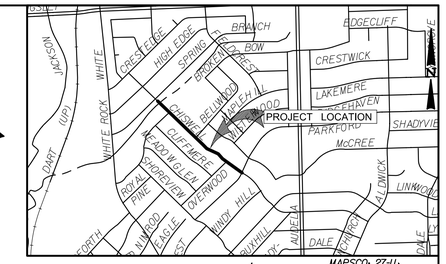
CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

CONTRACT NO. 20-473/474 | PID: 2933

# 8" WATER & 8" WASTEWATER MAINS
## CHISWELL ROAD
FROM CLEARHURST DRIVE TO PARKFORD DRIVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 1761 | 184 |




**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BY CP&Y, INC. ON 12/02/19. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) 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 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

BENCHMARK 27-U-1S
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND CHISWELL RD.
ELEV = 488.75

BENCHMARK 27-U-3S
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND LANSHIRE DR.
ELEV = 494.45

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-12 | 7005112.59 | 2513666.47 | 479.81 | CIRS |
| CP-13 | 7005127.96 | 2513654.17 | 479.11 | X-CUT |

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

REFERENCES
WATER
21-32W, 22-33W
WASTEWATER
22-33S, 21-33S, 21-32S

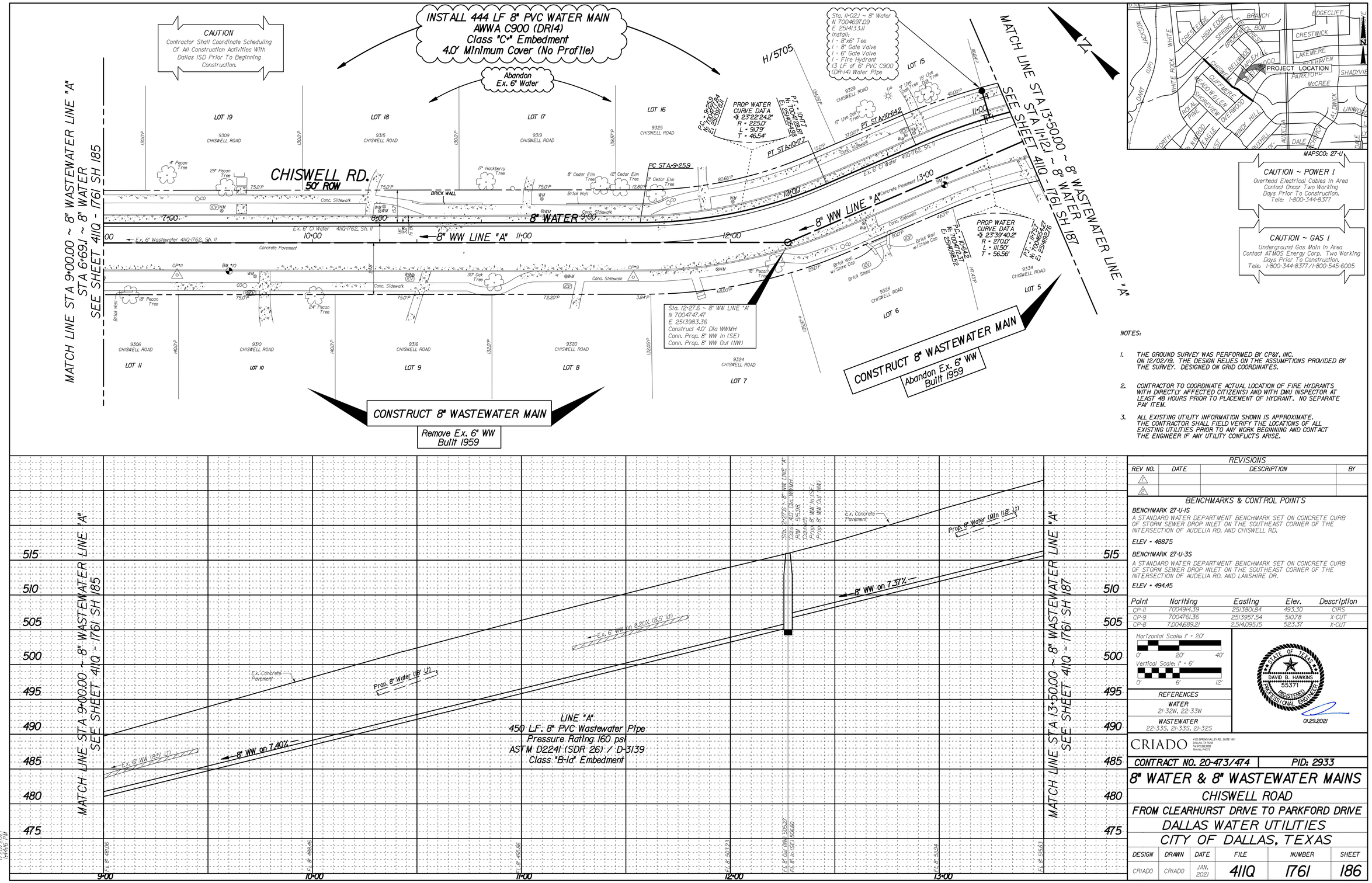
STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

CONTRACT NO. 20-473/474 | PID: 2933

# 8" WATER & 8" WASTEWATER MAINS
## CHISWELL ROAD
FROM CLEARHURST DRIVE TO PARKFORD DRIVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 1761 | 185 |




NOTES:

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2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) 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 |
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BENCHMARKS & CONTROL POINTS

BENCHMARK 27-U-1S
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND CHISWELL RD.
ELEV = 488.75

BENCHMARK 27-U-3S
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND LANSHIRE DR.
ELEV = 494.45

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-11 | 7004914.39 | 2513801.84 | 493.30 | CIRS |
| CP-9 | 7004761.36 | 2513957.54 | 510.78 | X-CUT |
| CP-8 | 7,004,689.21 | 2,514,095.15 | 523.37 | X-CUT |

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

REFERENCES
WATER
21-32W, 22-33W
WASTEWATER
22-33S, 21-33S, 21-32S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

CONTRACT NO. 20-473/474 | PID: 2933

# 8" WATER & 8" WASTEWATER MAINS
## CHISWELL ROAD
FROM CLEARHURST DRIVE TO PARKFORD DRIVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 1761 | 186 |

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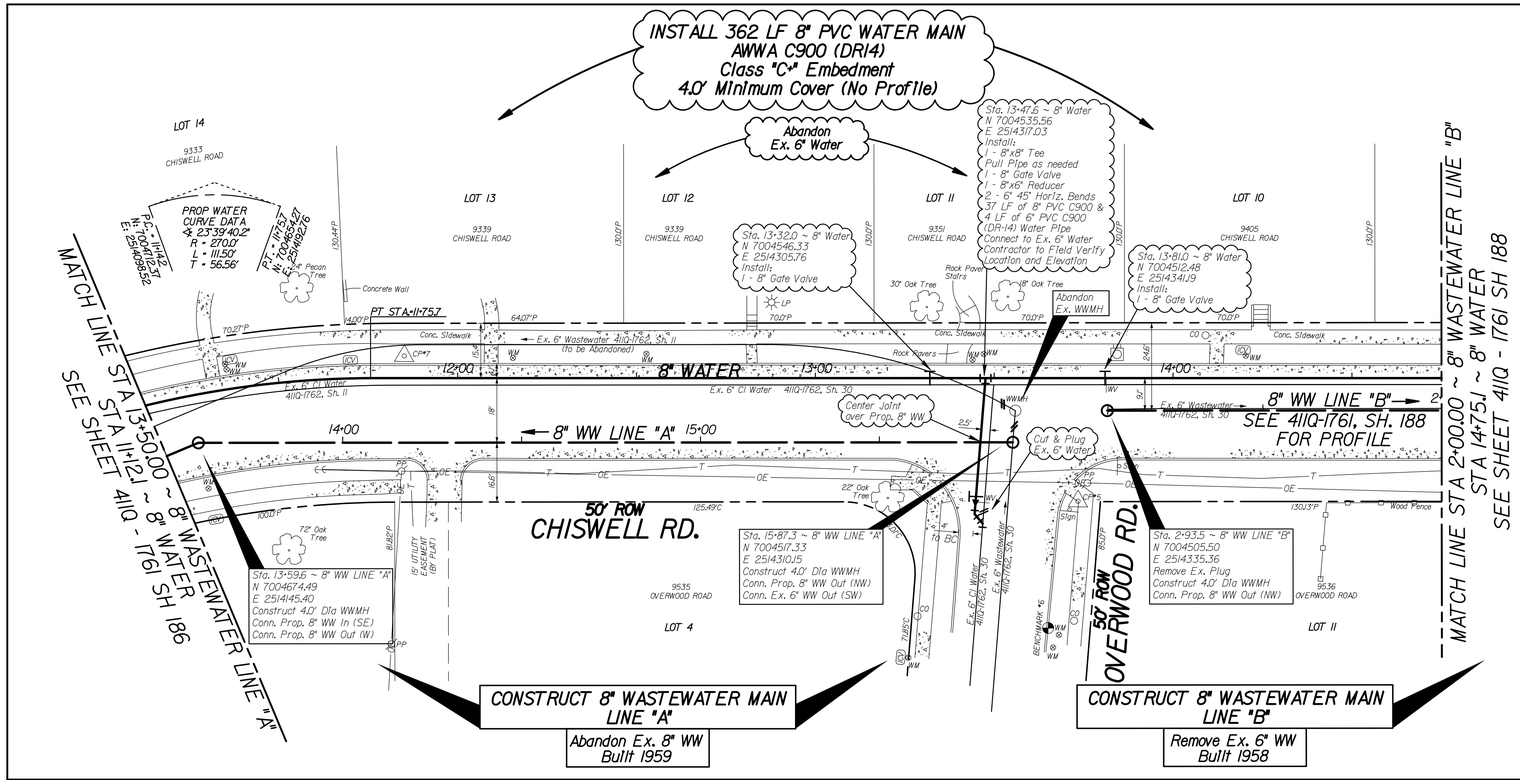


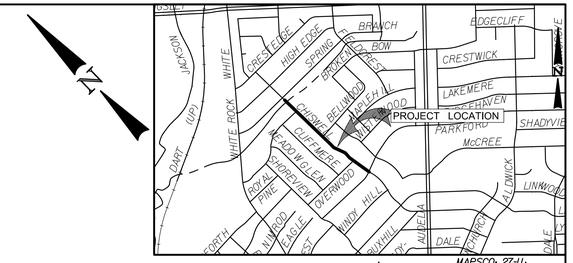


**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

**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

NOTES:

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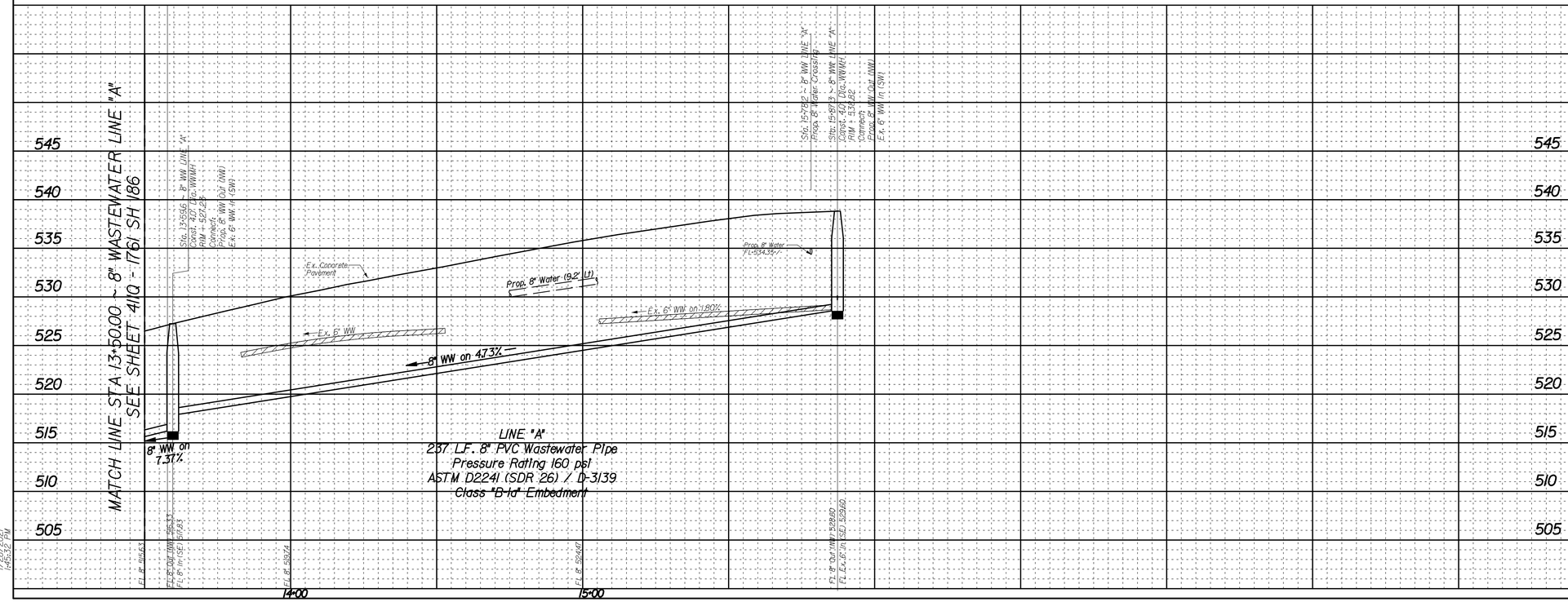


| REVISIONS | | | |
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| REV NO. | DATE | DESCRIPTION | BY |
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**BENCHMARKS & CONTROL POINTS**

BENCHMARK 27-U-IS
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND CHISWELL RD.
ELEV = 488.75

BENCHMARK 27-U-3S
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND LANSHIRE DR.
ELEV = 494.45

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP- 5 | 7004492.82 | 2514311.94 | 539.67 | X-CUT |
| CP- 7 | 7004652.32 | 2514203.80 | 531.64 | CIRS |

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

**REFERENCES**
WATER
21-32W, 22-33W
WASTEWATER
22-33S, 21-33S, 21-32S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

| CONTRACT NO. 20-473/474 | PID: 2933 |
|---|---|

# 8" WATER & 8" WASTEWATER MAINS
## CHISWELL ROAD
FROM CLEARHURST DRIVE TO PARKFORD DRIVE
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 1761 | 187 |

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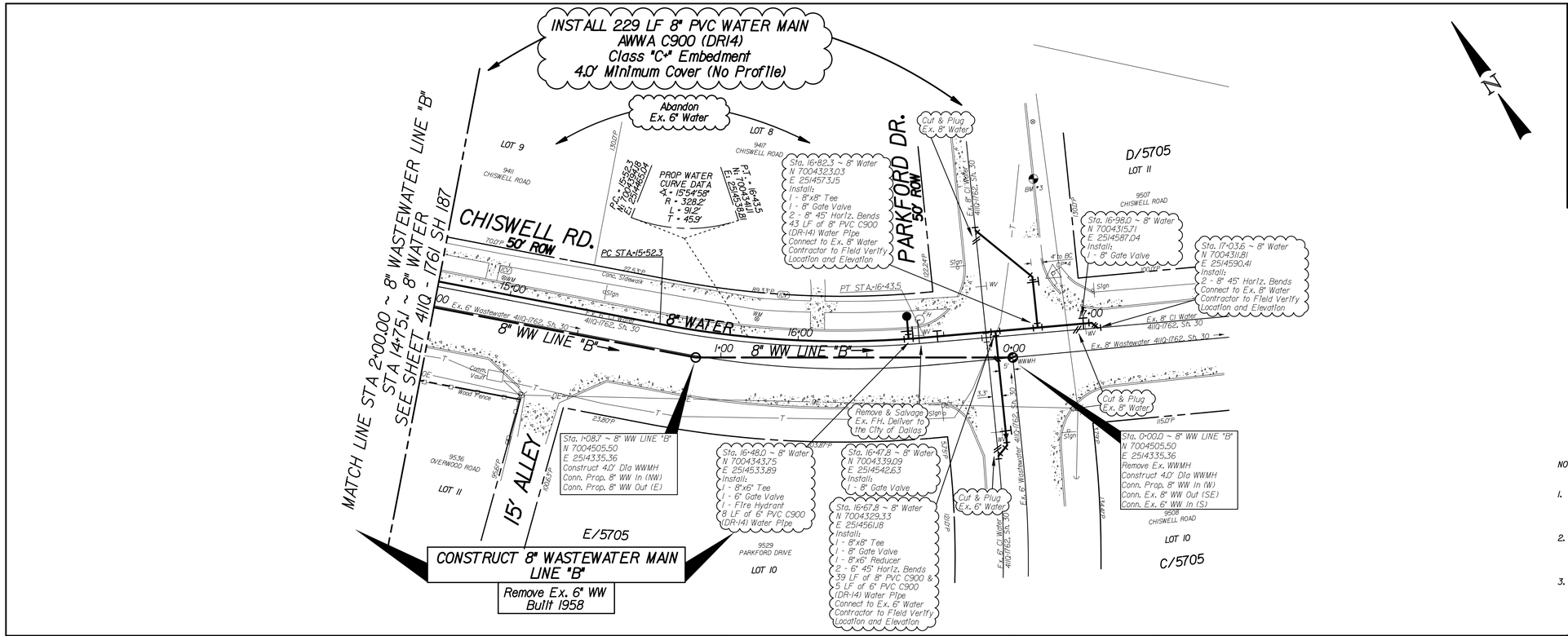


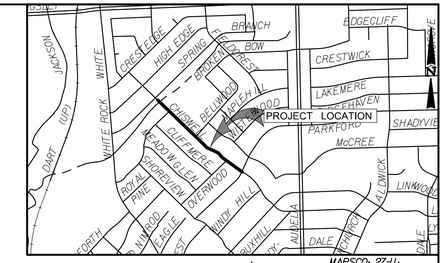


**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor Two Working Days Prior To Construction.
Tele: 1-800-344-8377

**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

NOTES:

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2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
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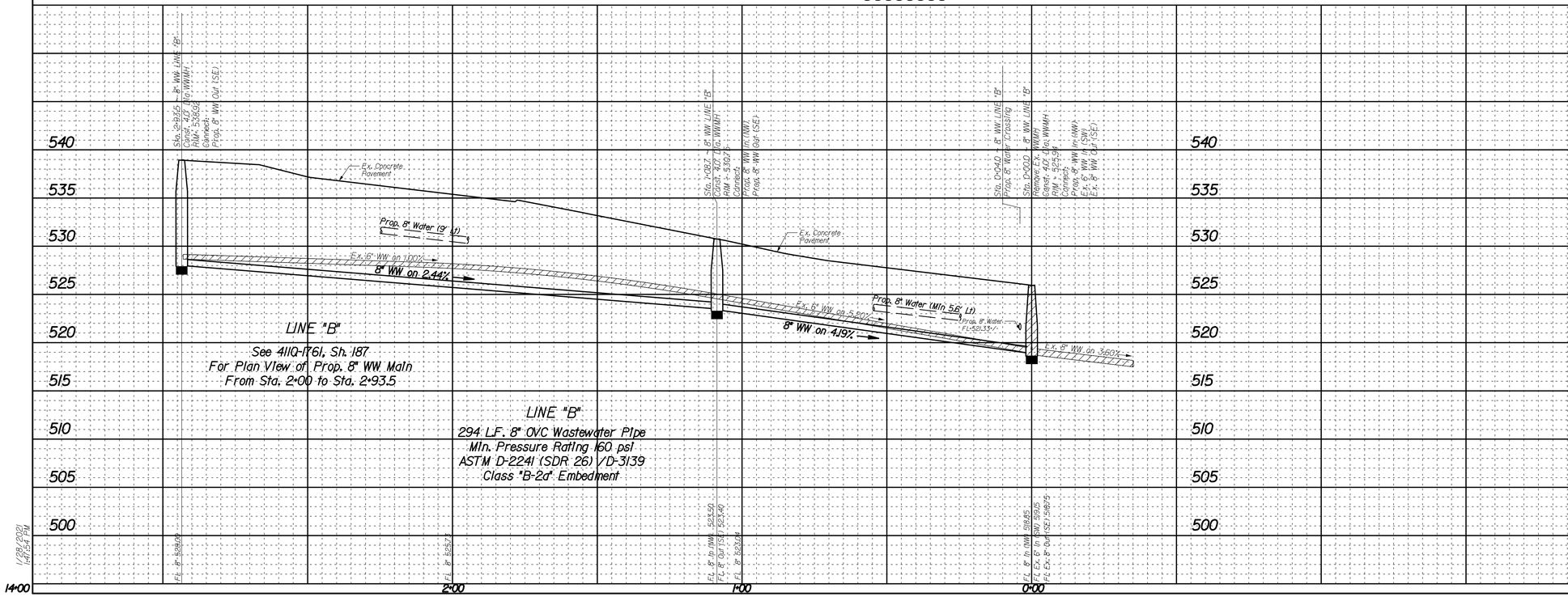


| REVISIONS | | | |
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| REV NO. | DATE | DESCRIPTION | BY |
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**BENCHMARKS & CONTROL POINTS**

BENCHMARK 27-U-IS
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND CHISWELL RD.
ELEV = 488.75

BENCHMARK 27-U-3S
A STANDARD WATER DEPARTMENT BENCHMARK SET ON CONCRETE CURB OF STORM SEWER DROP INLET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF AUDELIA RD. AND LANSHIRE DR.
ELEV = 494.45

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-3 | 7004366.70 | 2514599.56 | 526.85 | X-CUT |
| CP-4 | 7004366.70 | 2514587.76 | 525.86 | X-CUT |
| CP-5 | 7004492.82 | 2514311.94 | 539.67 | X-CUT |

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

**REFERENCES**
WATER
21-32W, 22-33W
WASTEWATER
22-33S, 21-33S, 21-32S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

CONTRACT NO. 20-473/474 | PID: 2933

# 8" WATER & 8" WASTEWATER MAINS
## CHISWELL ROAD
## FROM CLEARHURST DRIVE TO PARKFORD DRIVE
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 1761 | 188 |

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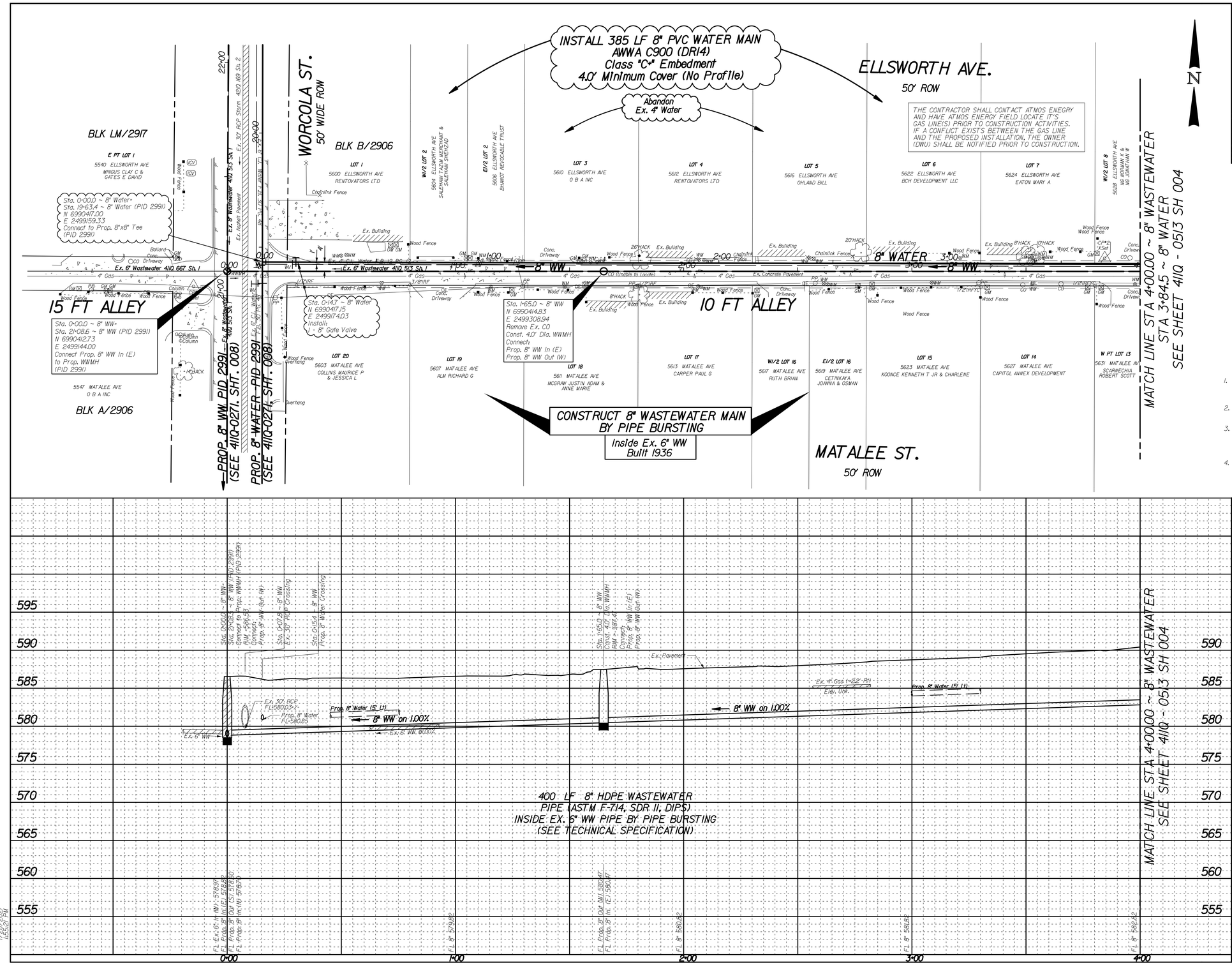


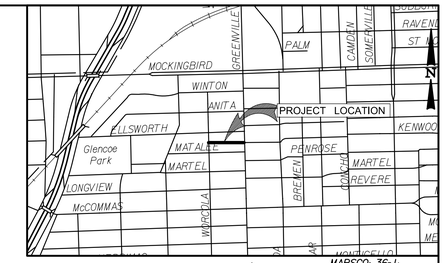


**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor Two Working Days Prior To Construction.
Tele: 1-800-344-8377

**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

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 03/06/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. MINIMUM 4-INCH TEMPORARY WATER LINE SHALL BE INSTALLED TO SERVE ADJACENT PROPERTIES.
3. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
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| REVISIONS | | | |
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| REV NO. | DATE | DESCRIPTION | BY |
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## BENCHMARKS & CONTROL POINTS

**COD BENCHMARK**
A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ANITA STREET

ELEV =609.21

**COD BENCHMARK**
A STANDARD WATER DEPARTMENT BENCHMARK SET STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ELLSWORTH AVENUE

ELEV = 601.63

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,990,405.93 | 2,499,129.30 | 586.58 | X-CUT |
| CP-2 | 6,990,423.29 | 2,499,528.32 | 590.35 | X-CUT |
| CP-3 | 6,990,423.62 | 2,499,821.26 | 594.01 | X-CUT |

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

**REFERENCES**
WATER
29-28W
WASTEWATER
28-28S

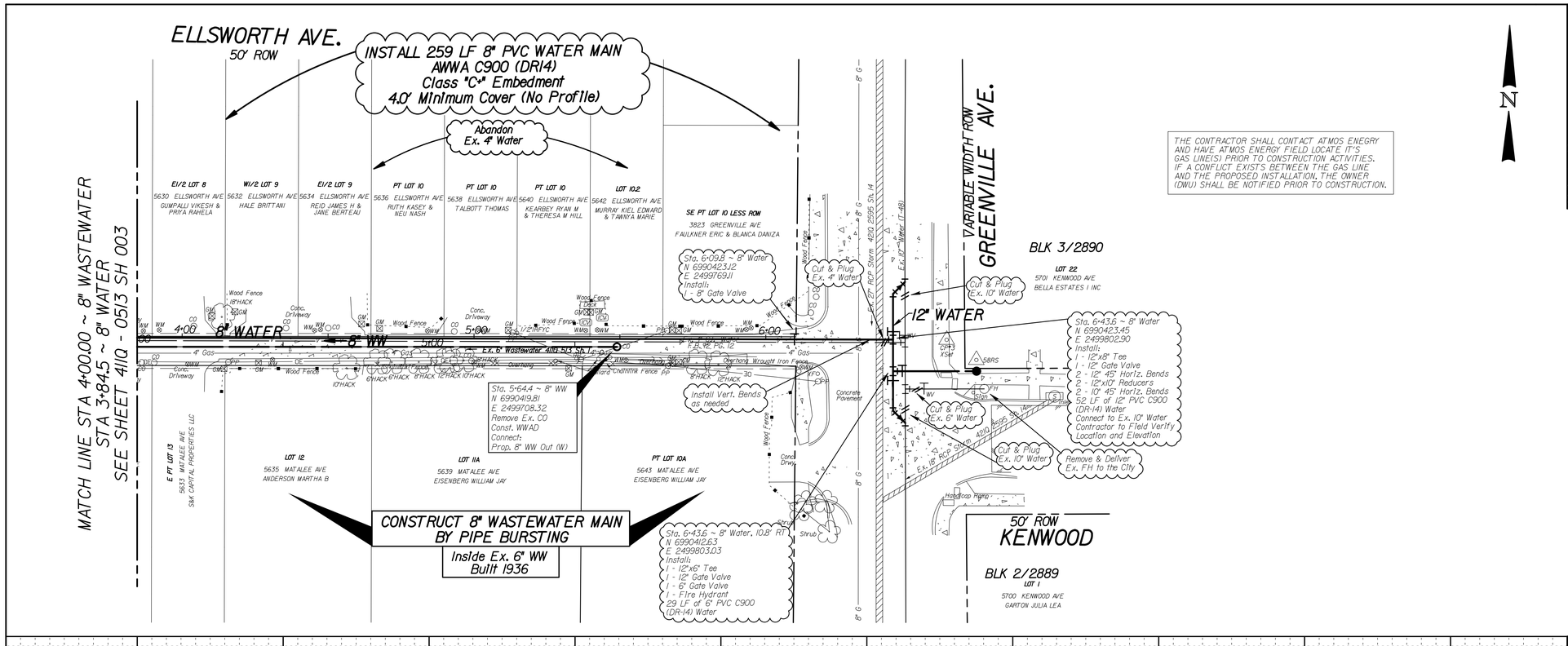
STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8972
Firm No. F-4573

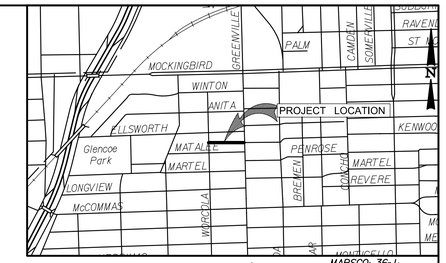
CONTRACT NO. 20-473/474 | PID: 2997

# 8" WATER & 8" WASTEWATER MAINS
## ALLEY BTW ELLSWORTH AVE & MATALEE AVE FROM WORCOLA ST. TO GREENVILLE AVE.
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 0513 | 003 |




THE CONTRACTOR SHALL CONTACT ATMOS ENEGRY AND HAVE ATMOS ENERGY FIELD LOCATE IT'S GAS LINE(S) PRIOR TO CONSTRUCTION ACTIVITIES. IF A CONFLICT EXISTS BETWEEN THE GAS LINE AND THE PROPOSED INSTALLATION, THE OWNER (DWU) SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.




**CAUTION ~ POWER !**
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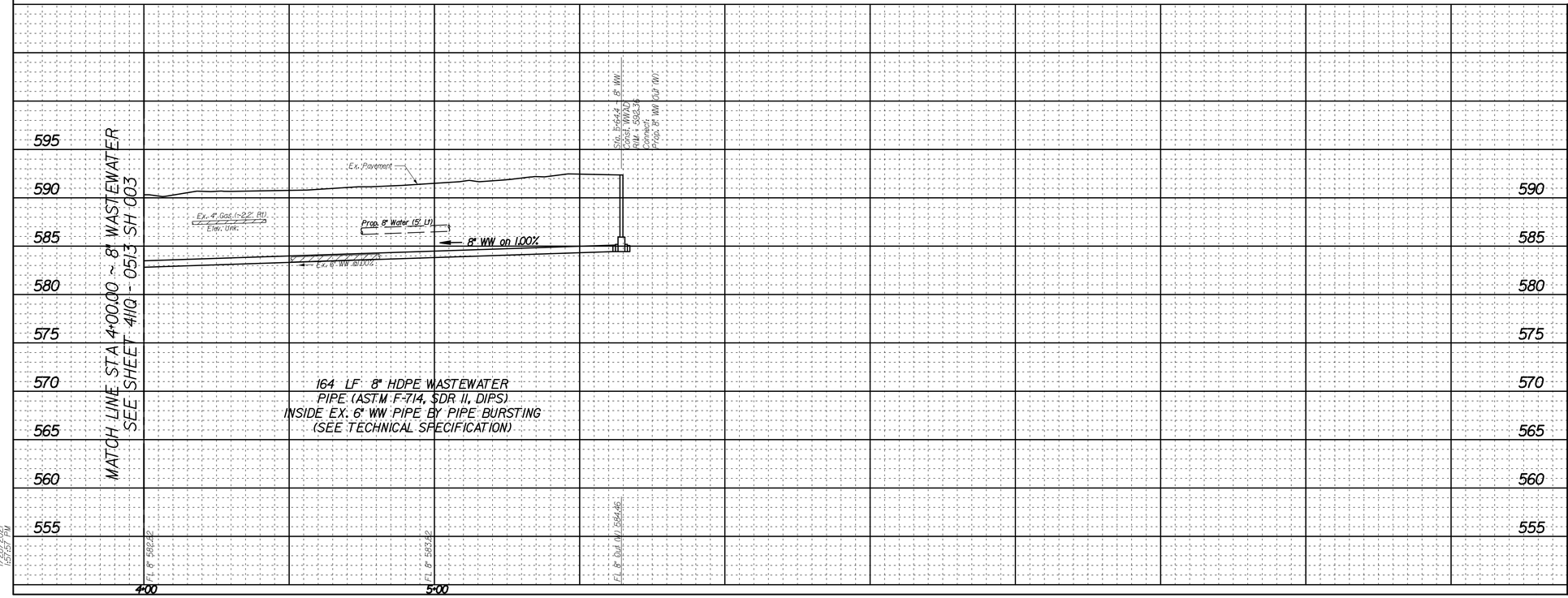
Contact Oncor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

**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

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 03/06/20. THE DESIGN REUES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. MINIMUM 4-INCH TEMPORARY WATER LINE SHALL BE INSTALLED TO SERVE ADJACENT PROPERTIES.
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.

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| REVISIONS | | | |
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| REV NO. | DATE | DESCRIPTION | BY |
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**BENCHMARKS & CONTROL POINTS**

COD BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ANITA STREET

ELEV =609.21

COD BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK SET STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ELLSWORTH AVENUE

ELEV = 601.63

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,990,405.93 | 2,499,129.30 | 586.58 | X-CUT |
| CP-2 | 6,990,423.29 | 2,499,528.32 | 590.35 | X-CUT |
| CP-3 | 6,990,423.62 | 2,499,821.26 | 594.01 | X-CUT |

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

REFERENCES
WATER
29-28W
WASTEWATER
28-28S

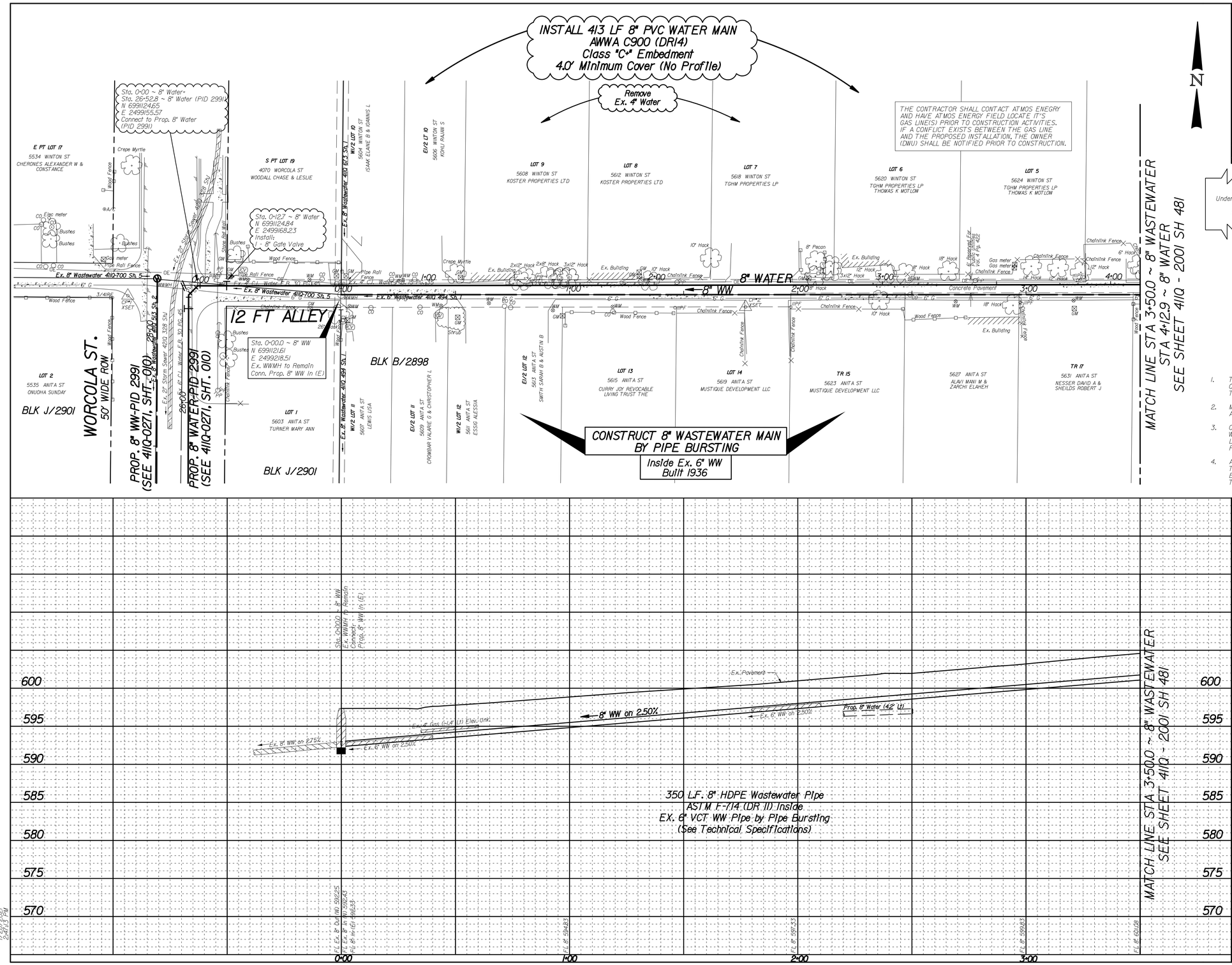
STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

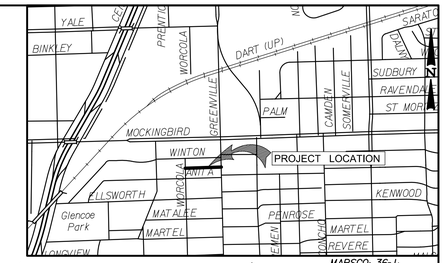
CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8972
Firm No. F-4573

| CONTRACT NO. 20-473/474 | PID: 2997 |
|---|---|

# 8" WATER & 8" WASTEWATER MAINS
## ALLEY BTW ELLSWORTH AVE & MATALEE AVE
## FROM WORCOLA ST. TO GREENVILLE AVE.
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 0513 | 004 |




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

CAUTION ~ POWER !
Overhead Electrical Cables In Area
Contact Oncor 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

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 03/06/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. MINIMUM 4-INCH TEMPORARY WATER LINE SHALL BE INSTALLED TO SERVE ADJACENT PROPERTIES.
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.




| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
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## BENCHMARKS & CONTROL POINTS

**COD BENCHMARK**
A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ANITA STREET

ELEV = 609.209

**COD BENCHMARK**
A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ELLSWORTH AVE.

ELEV = 601.632

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,991,119.907 | 2,499,124.990 | 596.415 | X-CUT |
| CP-2 | 6,991,118.623 | 2,499,395.701 | 601.418 | X-CUT |
| CP-3 | 6,991,129.144 | 2,499,812.217 | 611.056 | X-CUT |

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

REFERENCES
WATER
28-28W
WASTEWATER
28-28S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4672

CONTRACT NO. 20-473/474 | PID: 2992

# 8" WATER & 8" WASTEWATER MAINS
## ALLEY BTW ANITA ST. & WINTON ST.
## FROM WORCOLA ST. TO GREENVILLE AVE.
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 2001 | 480 |

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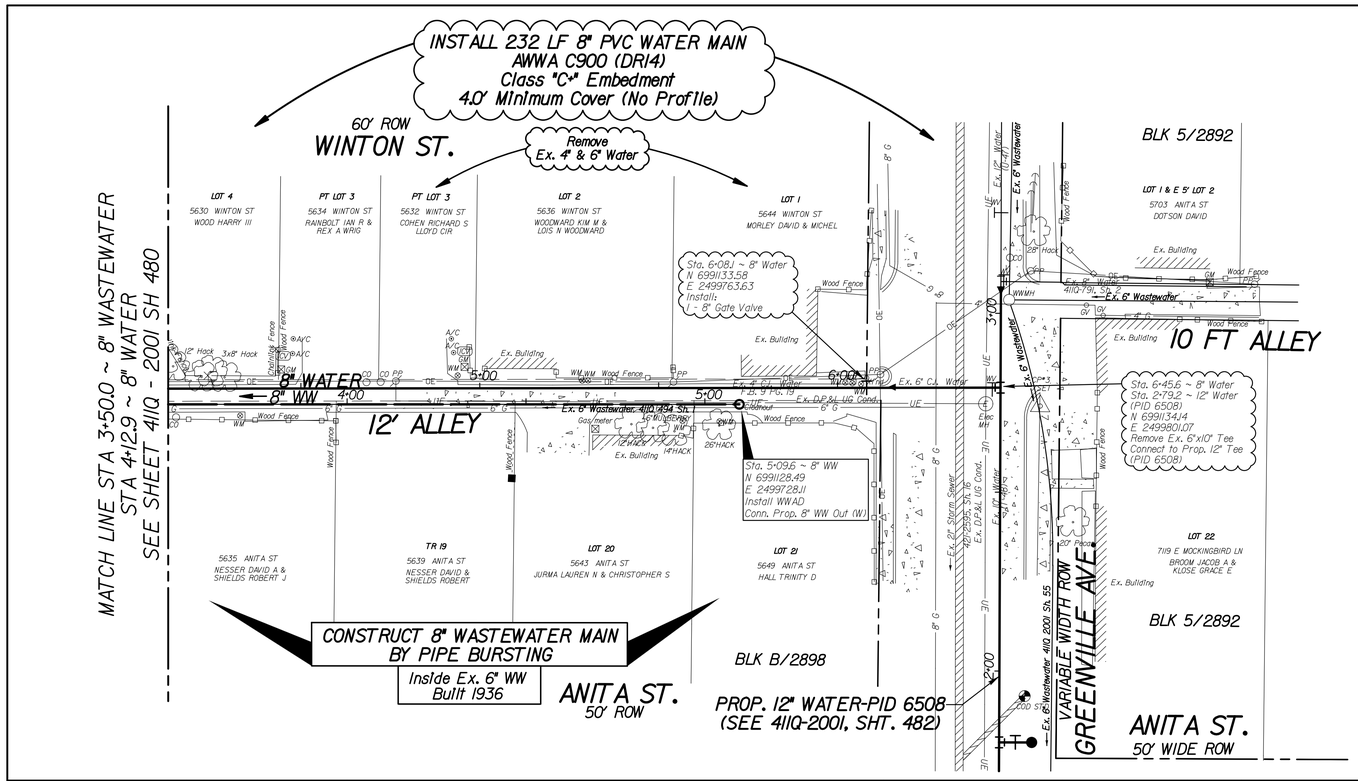
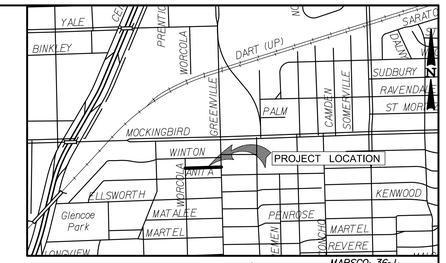



THE CONTRACTOR SHALL CONTACT ATMOS ENERGY AND HAVE ATMOS ENERGY FIELD LOCATE IT'S GAS LINE(S) PRIOR TO CONSTRUCTION ACTIVITIES. IF A CONFLICT EXISTS BETWEEN THE GAS LINE AND THE PROPOSED INSTALLATION, THE OWNER (DWU) SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.

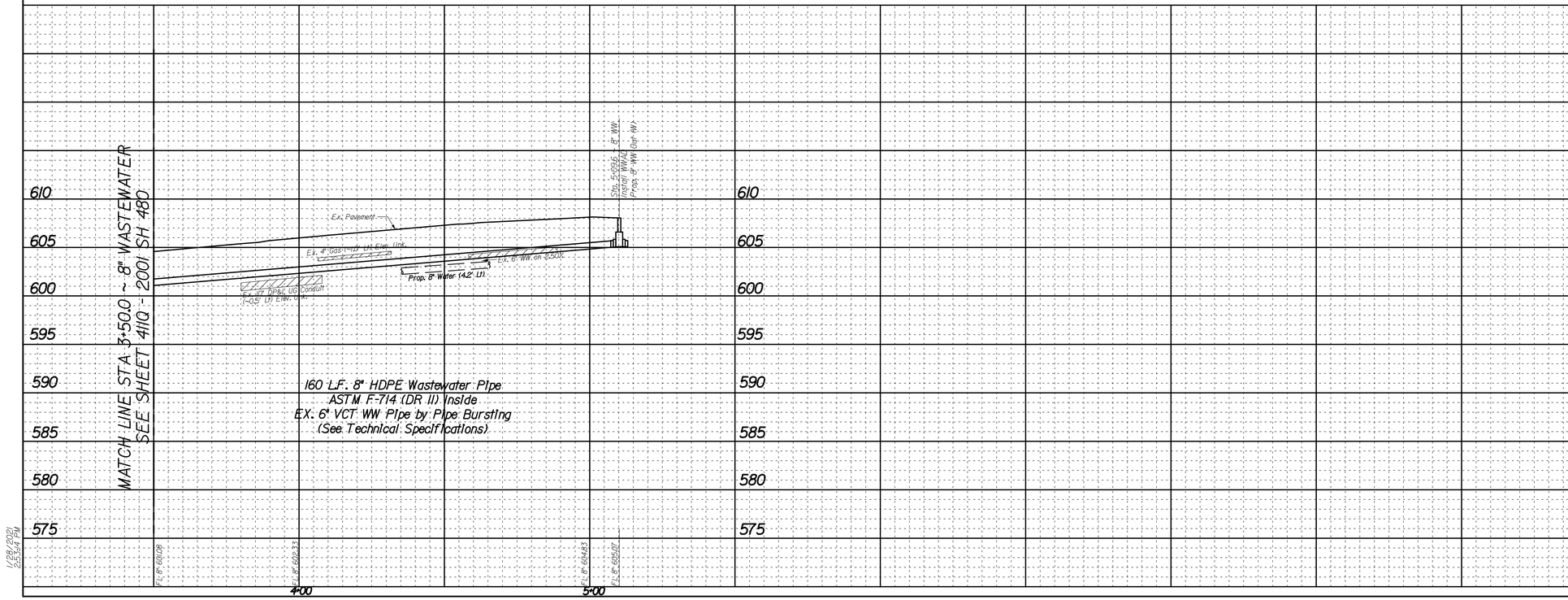



**CAUTION ~ POWER !**
Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 03/06/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. MINIMUM 4-INCH TEMPORARY WATER LINE SHALL BE INSTALLED TO SERVE ADJACENT PROPERTIES.
3. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) 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.

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| REV NO. | DATE | DESCRIPTION | BY |
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**BENCHMARKS & CONTROL POINTS**

COD BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ANITA STREET

ELEV = 609.209

COD BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ELLSWORTH AVE.

ELEV = 601.632

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,991,119.907 | 2,499,124.990 | 596.415 | X-CUT |
| CP-2 | 6,991,118.623 | 2,499,395.701 | 601.418 | X-CUT |
| CP-3 | 6,991,129.144 | 2,499,812.217 | 611.056 | X-CUT |

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

REFERENCES
WATER
28-28W
WASTEWATER
28-28S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4525

CONTRACT NO. 20-473/474 | PID: 2992

# 8" WATER & 8" WASTEWATER MAINS
## ALLEY BTW ANITA ST. & WINTON ST.
## FROM WORCOLA ST. TO GREENVILLE AVE.
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 2001 | 481 |

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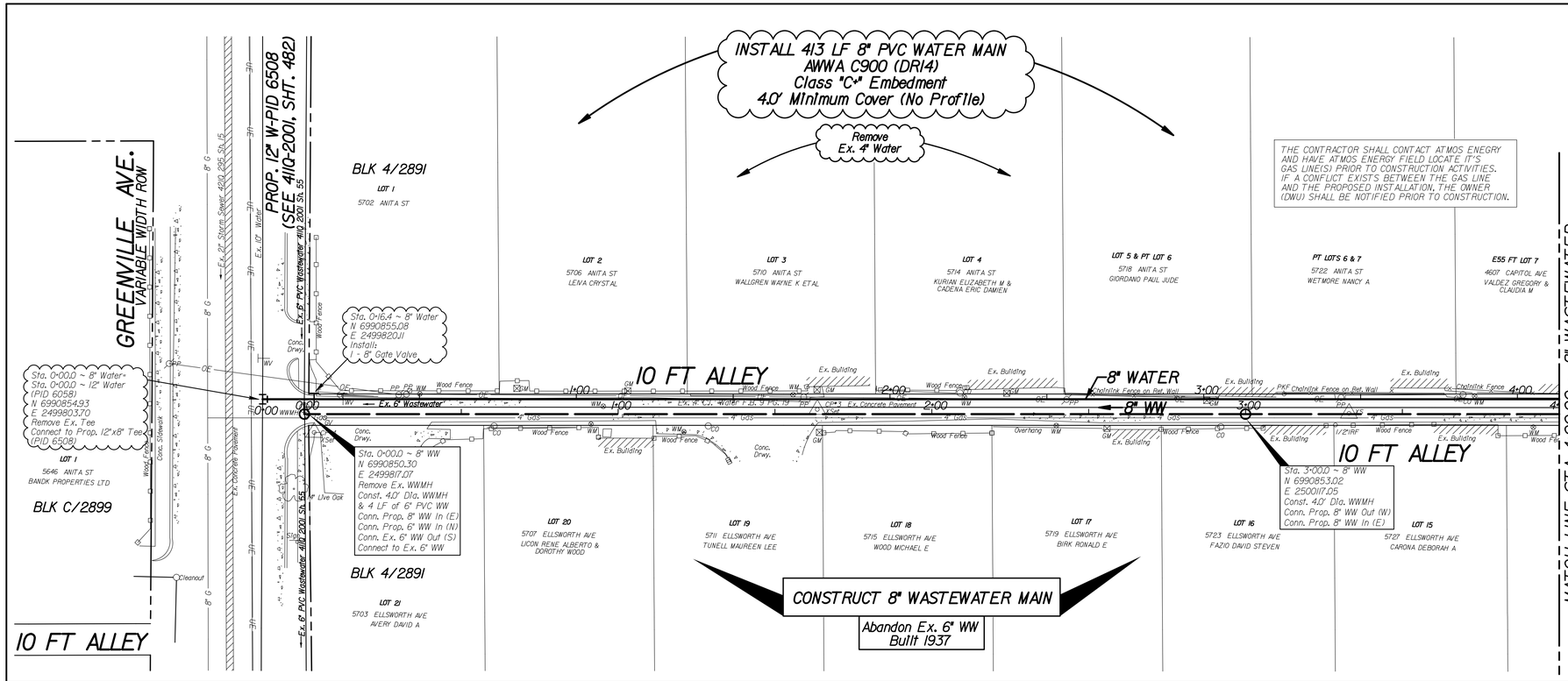


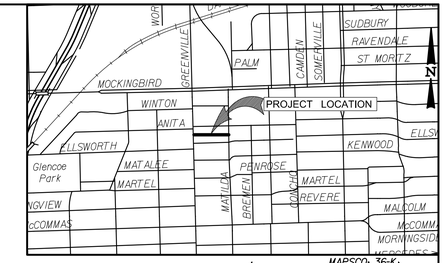


**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

**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

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 03/06/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. MINIMUM 4-INCH TEMPORARY WATER LINE SHALL BE INSTALLED TO SERVE ADJACENT PROPERTIES.
3. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
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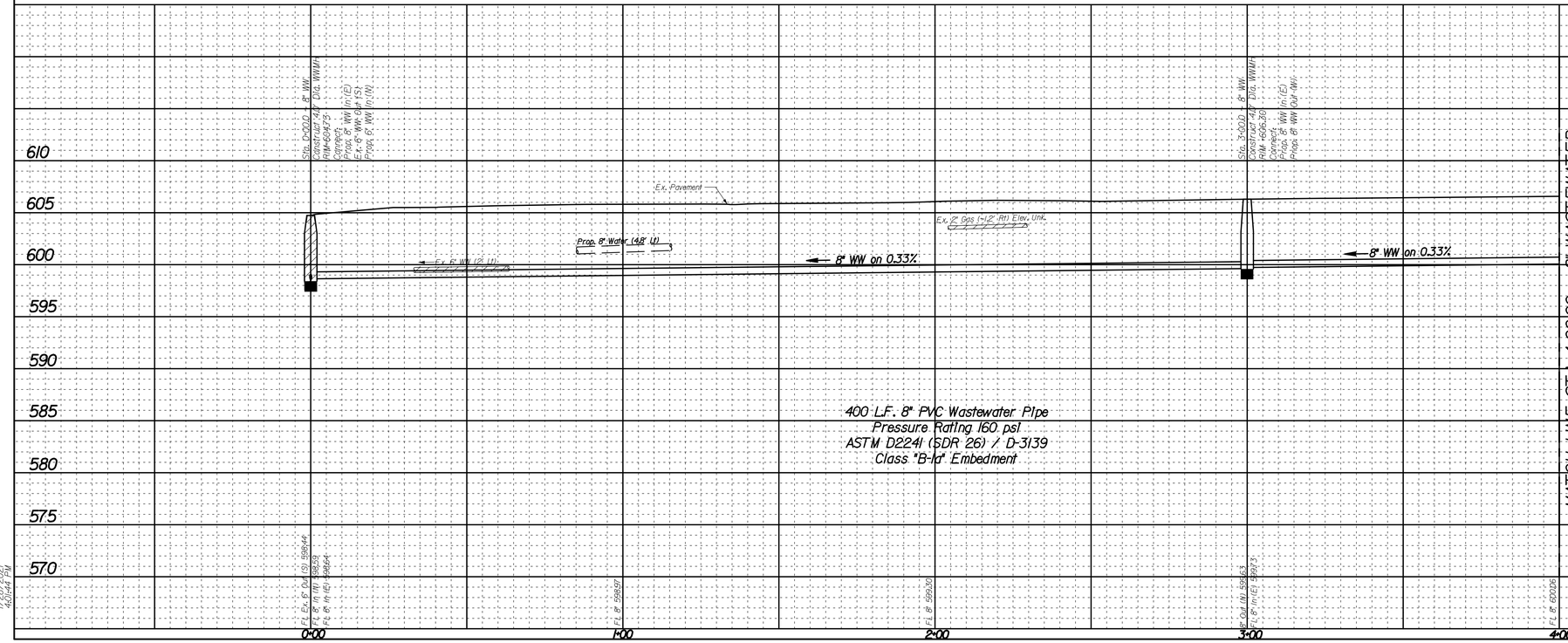


| REVISIONS | | | |
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| REV NO. | DATE | DESCRIPTION | BY |
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**BENCHMARKS & CONTROL POINTS**

COD BENCHMARK

A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ANITA STREET

ELEV = 609.21

COD BENCHMARK

A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ELLSWORTH AVENUE

ELEV =601.63

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-2 | 6,990,731.13 | 2,500,420.48 | 605.26 | X-CUT |
| CP-3 | 6,990,853.27 | 2,499,980.53 | 605.83 | X-CUT |
| CP-4 | 6,990,844.49 | 2,499,820.23 | 604.93 | X-CUT |

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

**REFERENCES**
WATER
28-28W
WASTEWATER
28-28S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4072

**CONTRACT NO. 20-473/474** | **PID: 2987**

# 8" WATER MAIN

## ALLEY BTW ANITA ST. & ELLSWORTH AVE.
## FROM GREENVILLE AVENUE TO MATILDA STREET
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
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| CRIADO | CRIADO | JAN. 2021 | 4110 | 2001 | 483 |

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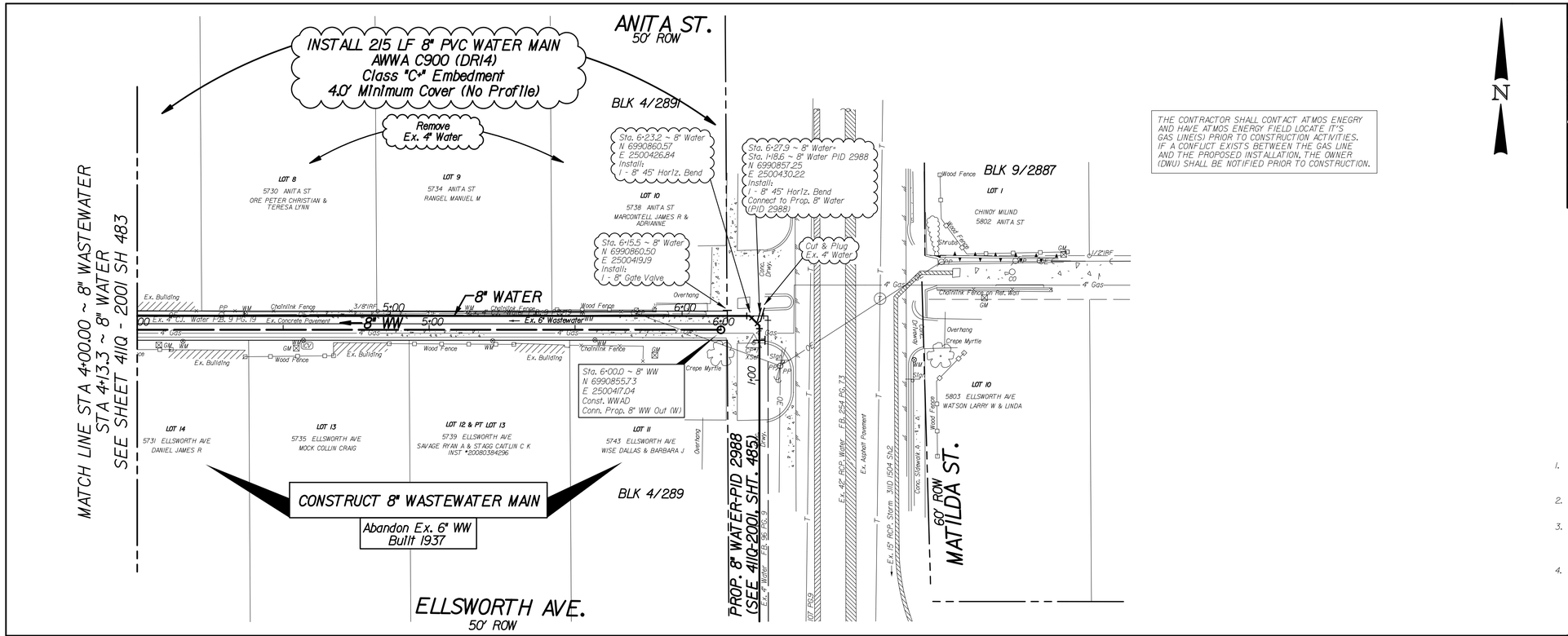
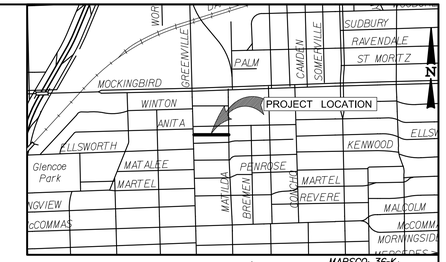



THE CONTRACTOR SHALL CONTACT ATMOS ENEGRY AND HAVE ATMOS ENERGY FIELD LOCATE IT'S GAS LINE(S) PRIOR TO CONSTRUCTION ACTIVITIES. IF A CONFLICT EXISTS BETWEEN THE GAS LINE AND THE PROPOSED INSTALLATION, THE OWNER (DWU) SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.




**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 03/06/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. MINIMUM 4-INCH TEMPORARY WATER LINE SHALL BE INSTALLED TO SERVE ADJACENT PROPERTIES.
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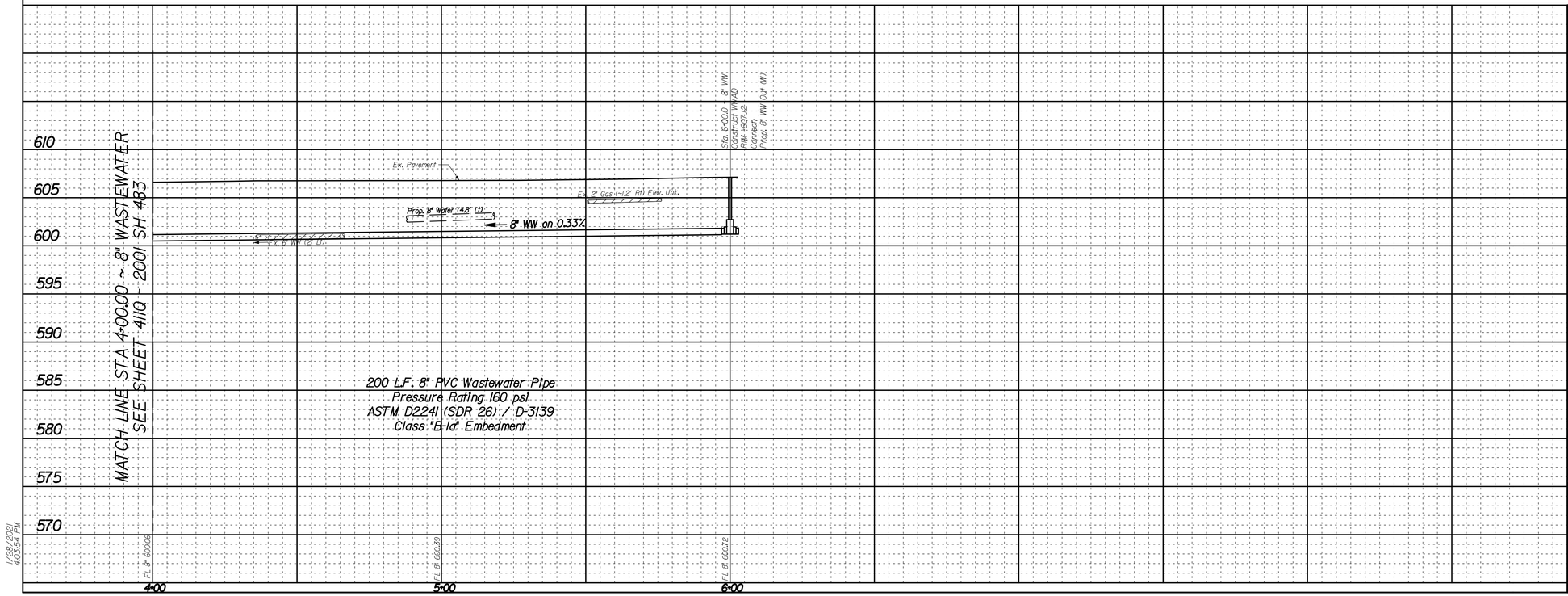


| REVISIONS | | | |
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| REV NO. | DATE | DESCRIPTION | BY |
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**BENCHMARKS & CONTROL POINTS**

COD BENCHMARK

A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ANITA STREET

ELEV = 609.21

COD BENCHMARK

A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ELLSWORTH AVENUE

ELEV =601.63

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,990,851.29 | 2,500,428.32 | 606.954 | X-CUT |
| CP-2 | 6,990,731.13 | 2,500,420.48 | 605.126 | X-CUT |
| CP-4 | 6,990,844.49 | 2,499,820.23 | 604.936 | X-CUT |

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

REFERENCES
WATER
28-28W
WASTEWATER
28-28S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4072

| CONTRACT NO. 20-473/474 | PID: 2987 |
|---|---|

# 8" WATER MAIN

## ALLEY BTW ANITA ST. & ELLSWORTH AVE.

## FROM GREENVILLE AVENUE TO MATILDA STREET

## DALLAS WATER UTILITIES

## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 2001 | 484 |

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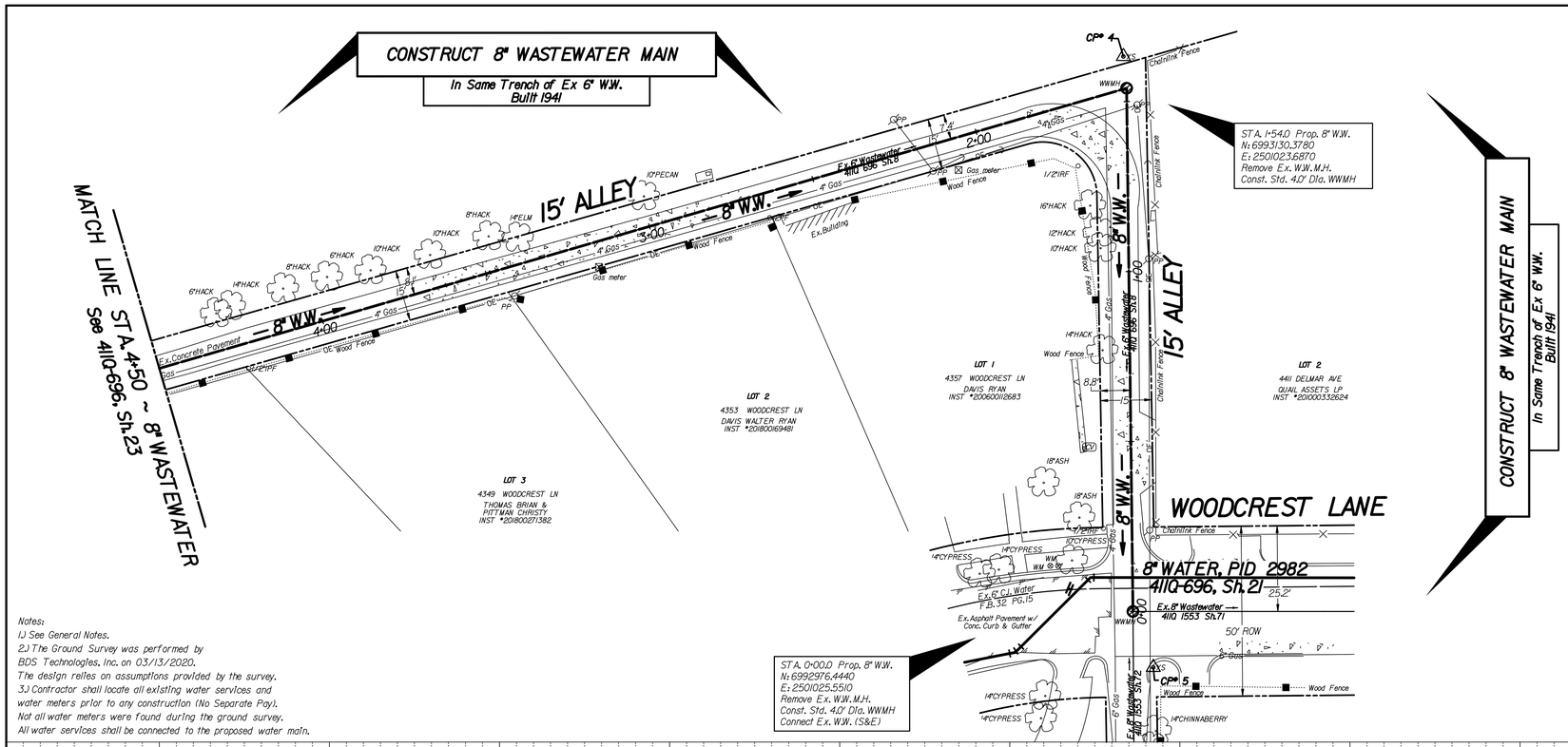
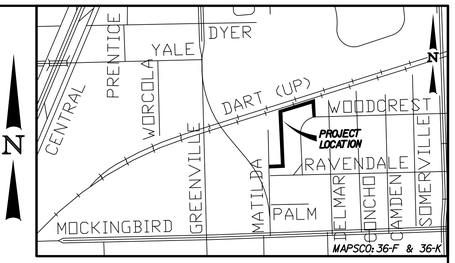



**UNDERGROUND UTILITIES**

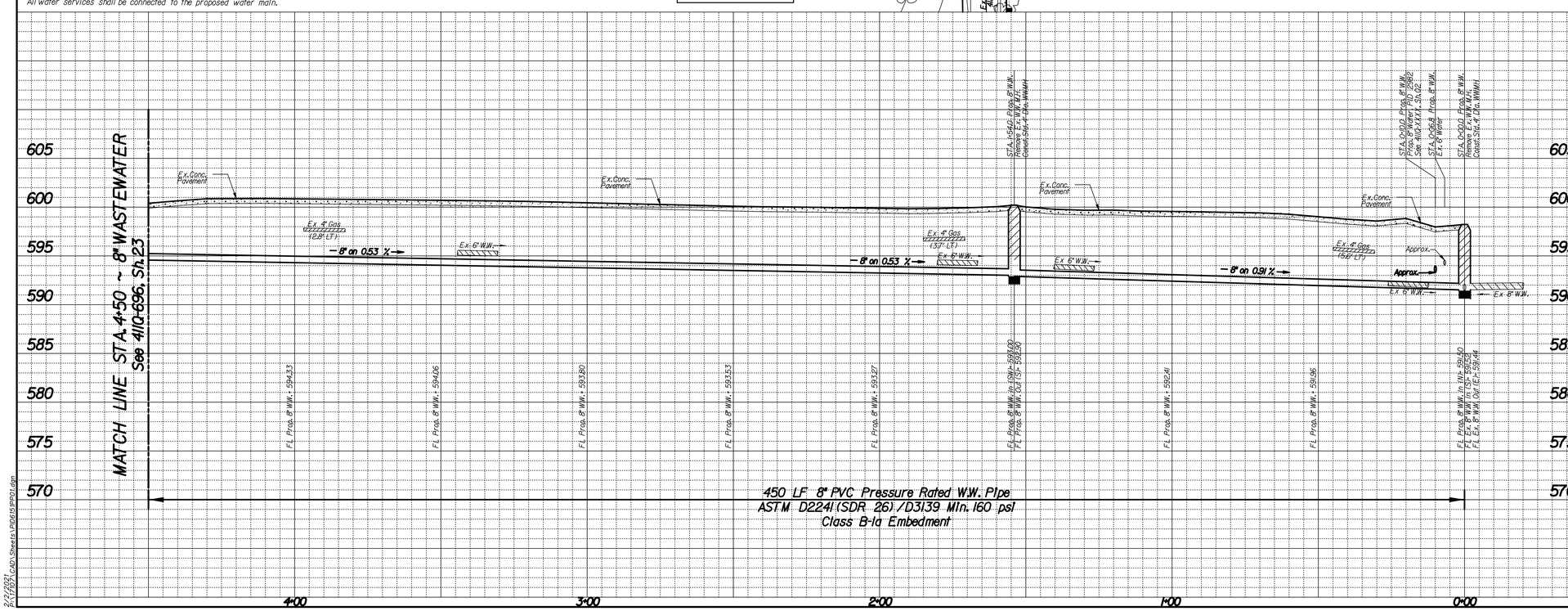
THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION.
CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION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

**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 ~ 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 ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377

Notes:
1) See General Notes.
2) The Ground Survey was performed by BDS Technologies, Inc. on 03/13/2020. The design relies on assumptions provided by the survey.
3) Contractor shall locate all existing water services and water meters prior to any construction (No Separate Pay). Not all water meters were found during the ground survey. All water services shall be connected to the proposed water main.




| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
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| 2 | | | |

**BENCHMARKS & CONTROL POINTS**

CONTROL POINT 4
"X" CUT SET IN CONCRETE +/-160 FEET NORTH OF THE CENTERLINE OF WOODCREST LN AND +/- 10 FEET NORTH OF A WASTEWATER MANHOLE.
N: 6993139.711, E: 2501022.745, ELEV = 600.122

CONTROL POINT 5
"X" cut set on top of curb at the south side of Woodcrest Ln +/- 18 ft southeast of a wastewater manhole.
N: 6992959.998, E: 2501031.532, ELEV = 598.414

BENCHMARK 36-K-5S
BM COD: STD. WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ANITA ST.
ELEV = 609.2093

BENCHMARK 36-K-8S
BM COD: STD. WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ELLSWORTH AVE.
ELEV = 601.6317

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

**REFERENCES**
WATER
27 - 28 W
WASTEWATER
27 - 28 S

STATE OF TEXAS
MD SHAMSUL AREFIN
83867
LICENSED PROFESSIONAL ENGINEER
2/2/2021

CRIADO
4100 SPRING VALLEY RD. SUITE 1021
DALLAS, TX 75244
Tel 972.392.9093
Firm No. F-4373

STREAM WATER GROUP, INC.
ENGINEERS & PLANNERS
9401 LBJ Fwy, Suite 104
Dallas, TX 75243
Phone: 800-446-8076, TX Registration No. F-00548B

CONTRACT NO. 20-473/474 | PID: 6151

# 8" WASTEWATER MAIN

ALLEY BETWEEN DELMAR AVENUE & MATILDA ST.
FROM RAVENDALE LANE NORTHEAST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| SWG | SWG | FEB. 2021 | 411Q | 696 | 22 |

2/2/2021
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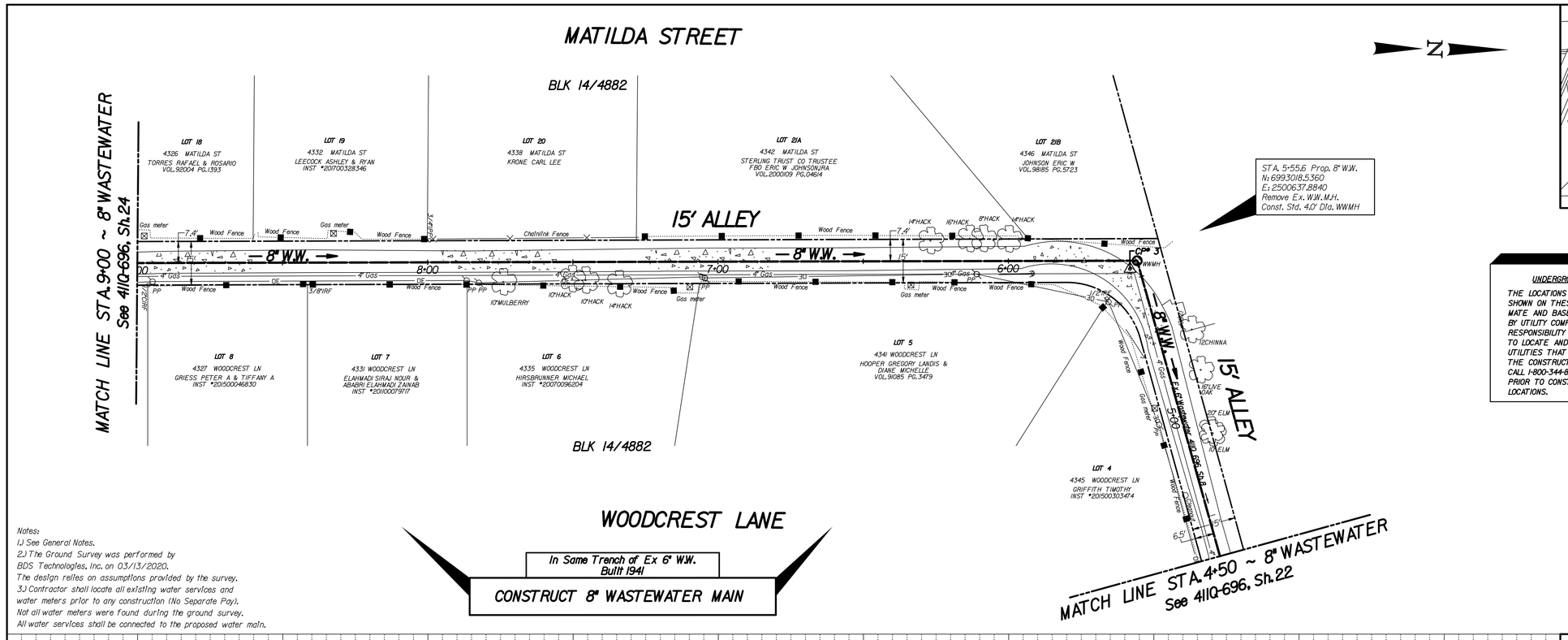
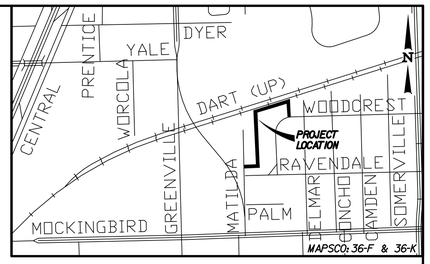



**UNDERGROUND UTILITIES**

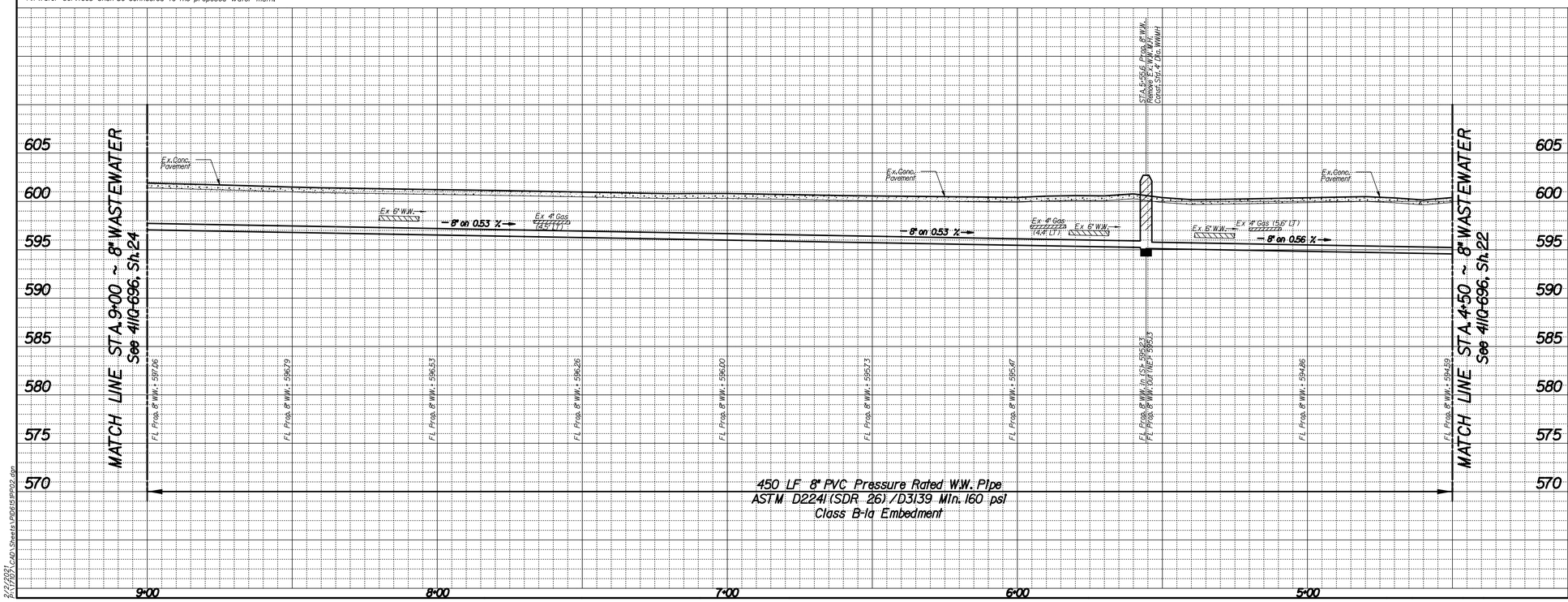
THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY ON-SITE THE UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION.
CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION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

**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 ~ 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 ONCOR Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

Notes:
1.) See General Notes.
2.) The Ground Survey was performed by BDS Technologies, Inc. on 03/13/2020. The design relies on assumptions provided by the survey.
3.) Contractor shall locate all existing water services and water meters prior to any construction (No Separate Pay). Not all water meters were found during the ground survey. All water services shall be connected to the proposed water main.




| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

**BENCHMARKS & CONTROL POINTS**

CONTROL POINT 3
"X" CUT SET IN CONCRETE ALLEY BEHIND ADDRESS # 4346 MATILDA ST. AND +/- 4 FEET SOUTHEAST OF AN ELEVATED WASTEWATER MANHOLE
N: 6993016.088, E: 2500640.72, ELEV = 600.449

CONTROL POINT 4
"X" CUT SET IN CONCRETE +/-160 FEET NORTH OF THE CENTERLINE OF WOODCREST LN AND +/- 10 FEET NORTH OF A WASTEWATER MANHOLE.
N: 6993139.711, E: 2501022.745, ELEV = 600.122

BENCHMARK 36-K-5S
BM COD: STD. WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ANITA ST.
ELEV = 609.2093

BENCHMARK 36-K-8S
BM COD: STD. WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ELLSWORTH AVE.
ELEV = 601.6317

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

REFERENCES
WATER
27 - 28 W
WASTEWATER
27 - 28 S

STATE OF TEXAS
MD SHAMSUL AREFIN
83867
LICENSED
PROFESSIONAL ENGINEER
2/2/2021

CRIADO
4100 SPRING VALLEY RD
SUITE 1001
DALLAS, TX 75244
Tel:972.362.8092
Firm No. F-4373

STREAM WATER GROUP, INC.
ENGINEERS & PLANNERS
9401 LBJ Fwy, Suite 104
Dallas, TX 75243
Phone: 800-446-8076, TX Registration No. F-005488

CONTRACT NO. 20-473/474 | PID: 6151

# 8" WASTEWATER MAIN

## ALLEY BETWEEN DELMAR AVENUE & MATILDA ST.

## FROM RAVENDALE LANE NORTHEAST

## DALLAS WATER UTILITIES

## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| SWG | SWG | FEB. 2021 | 4110 | 696 | 23 |

2/2/2021
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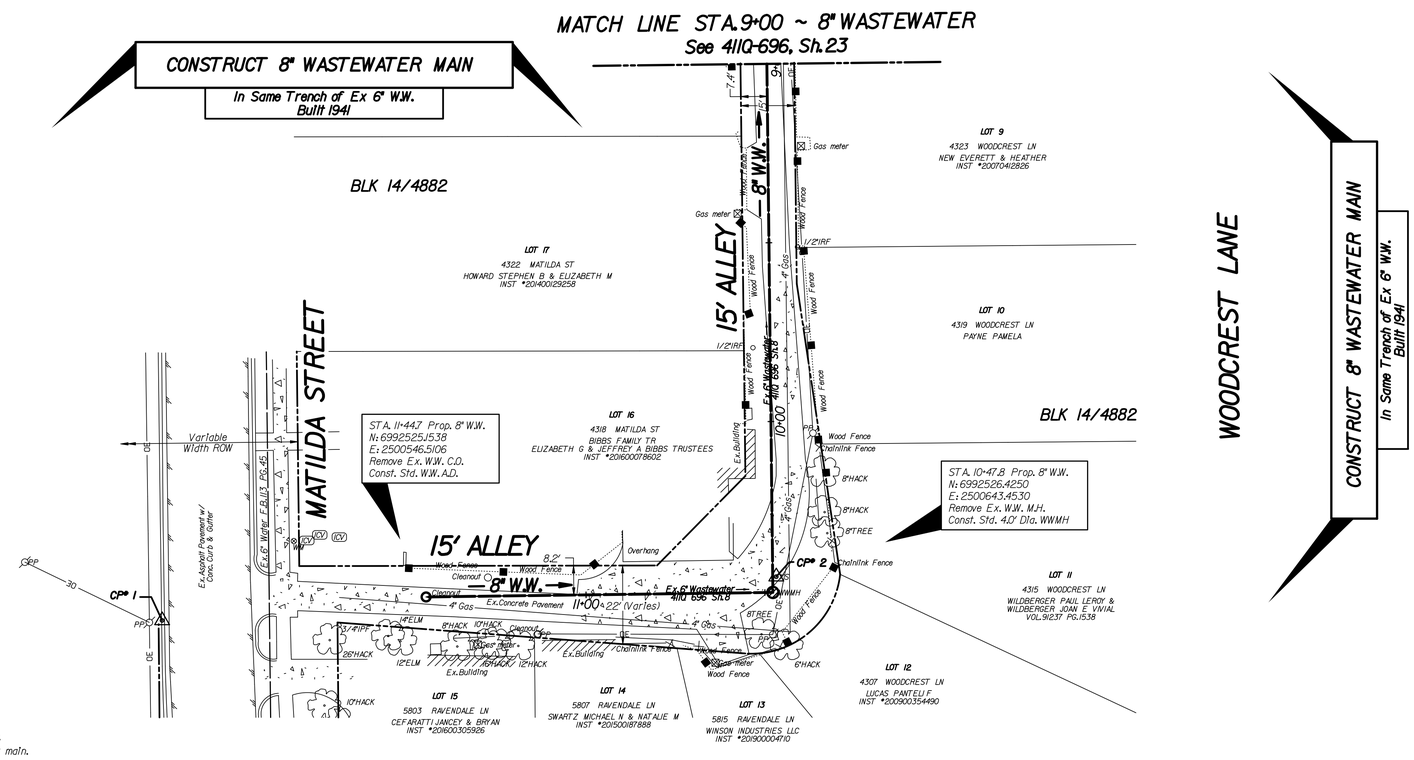


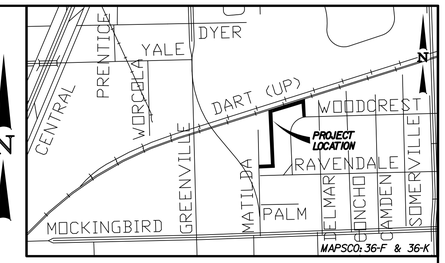


**UNDERGROUND UTILITIES**

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

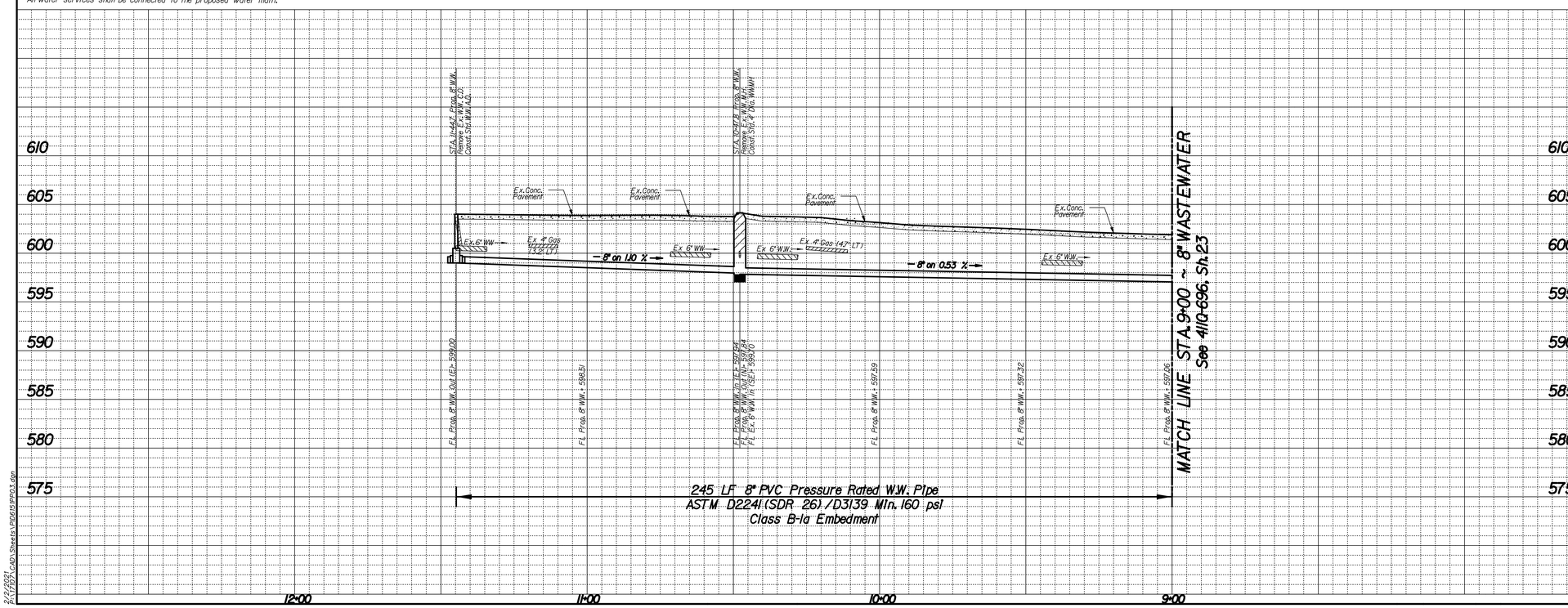
**CAUTION ~ GAS !**
Underground Gas Main In Area
Contact ATMOS Energy Corp. Two Working Days Prior To Construction.
Tele: 1-800-344-8377 / 1-800-545-6005

**CAUTION ~ 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 ONCOR 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

Notes:
1) See General Notes.
2) The Ground Survey was performed by BDS Technologies, Inc. on 03/13/2020.
The design relies on assumptions provided by the survey.
3) Contractor shall locate all existing water services and water meters prior to any construction (No Separate Pay).
Not all water meters were found during the ground survey.
All water services shall be connected to the proposed water main.




| REVISIONS | | | |
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| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
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**BENCHMARKS & CONTROL POINTS**

CONTROL POINT 1
"X" CUT SET ON TOP OF CURB AT THE WEST SIDE OF MATILA LN. +/- 200 FEET NORTH OF THE CENTERLINE OF RAVENDALE LN.
N: 6992519.593, E: 2500472.725, ELEV = 605.028

CONTROL POINT 2
"X" CUT SET IN CONCRETE ALLEY BEHIND ADDRESS # 4307 WOODCREST LN AND +/- 5 FEET NORTH OF A WASTEWATER MANHOLE.
N: 6992530.828, E: 2500644.399, ELEV = 603.724

BENCHMARK 36-K-5S
BM COD: STD.WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ANITA ST.
ELEV = 609.2093

BENCHMARK 36-K-8S
BM COD: STD.WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ELLSWORTH AVE.
ELEV = 601.6317

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

REFERENCES
WATER
27 - 28 W
WASTEWATER
27 - 28 S

STATE OF TEXAS
MD SHAMSUL AREFIN
83867
LICENSED
PROFESSIONAL ENGINEER
2/2/2021

CRIADO
4100 SPRING VALLEY RD
SUITE 1001
DALLAS, TX 75244
Tel 972.392.8092
Firm No. F-4373

STREAM WATER GROUP, INC.
ENGINEERS & PLANNERS
9401 LBJ Fwy. Suite 104
Dallas, TX 75243
Phone: 800-446-8076, TX Registration No. F-005488

CONTRACT NO. 20-473/474 | PID: 6151

# 8" WASTEWATER MAIN

ALLEY BETWEEN DELMAR AVENUE & MATILDA ST.
FROM RAVENDALE LANE NORTHEAST
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| SWG | SWG | FEB. 2021 | 411Q | 696 | 24 |

2/2/2021
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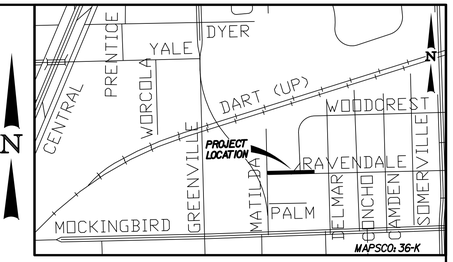
INSTALL 364 LF 8" PVC (DR-14)
AWWA C900 WATER PIPE CLASS "C+" EMBEDMENT
4.0' MINIMUM COVER (NO PROFILE)

KIII Ex. 6" E.C.I. Water
Built Prior to 1955




**UNDERGROUND UTILITIES**

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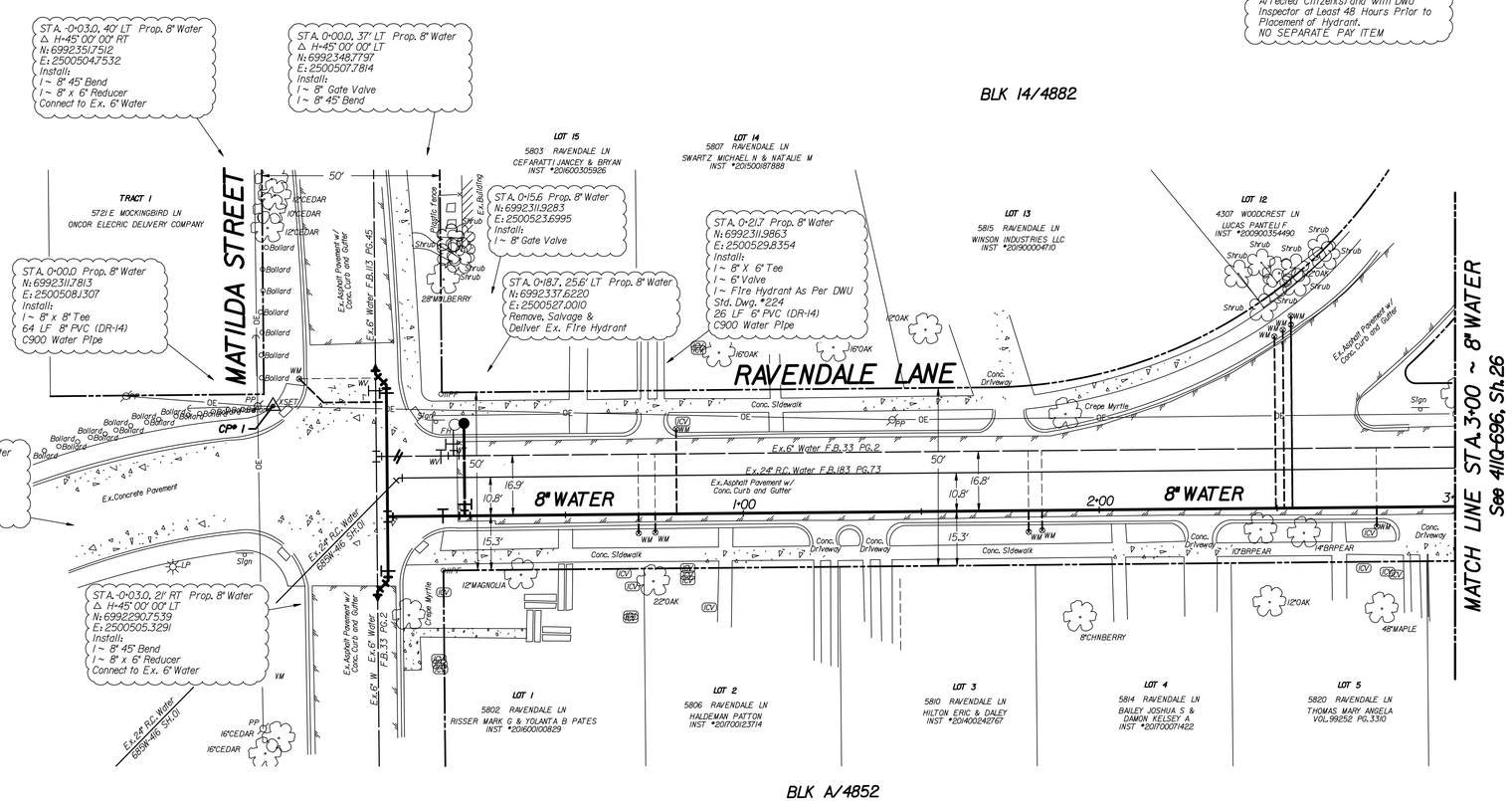
CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

**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 ~ 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 ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377

Contractor to Coordinate Actual Location of Fire Hydrant Directly with Affected Citizen(s) and with DWU Inspector at Least 48 Hours Prior to Placement of Hydrant.
NO SEPARATE PAY ITEM




Notes:
1.) See General Notes.
2.) The Ground Survey was performed by BDS Technologies, Inc. on 03/13/2020. The design relies on assumptions provided by the survey.
3.) Contractor shall locate all existing water services and water meters prior to any construction (No Separate Pay). Not all water meters were found during the ground survey. All water services shall be connected to the proposed water main.

| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

**BENCHMARKS & CONTROL POINTS**

CONTROL POINT 1
"X"CUT SET IN CONCRETE AT THE NORTHWEST CORNER OF MATILDA LN AND RAVENDALE LN +/- 4 FEET EAST OF A POWERPOLE.
N: 6992342.837, E: 2500475.937, ELEV = 608.345

CONTROL POINT 778
"X"CUT SET IN CONCRETE S/WALK AT THE NORTHEAST CORNER OF WOODCREST LN AND RAVENDALE LN +/- 524 FEET EAST OF THE CENTERLINE OF MATILDA LN.
N: 6992343.812, E: 2500860.381, ELEV = 605.2908

BENCHMARK 36-K-5S
BM COD: STD.WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ANITA ST.
ELEV = 609.2093

BENCHMARK 36-K-8S
BM COD: STD.WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ELLSWORTH AVE.
ELEV = 601.6317

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

**REFERENCES**
WATER
28 - 28 W
WASTEWATER
28 - 28 S

STATE OF TEXAS
MD SHAMSUL AREFIN
83867
LICENSED
PROFESSIONAL ENGINEER
2/2/2021

CRIADO
4100 SPRING VALLEY RD.
SUITE 1001
DALLAS, TX 75244
Tel 972.392.9092
Firm No. F-4373

STREAM WATER GROUP, INC.
ENGINEERS & PLANNERS
9401 LBJ Fwy, Suite 104
Dallas, TX 75243
Phone: 800-446-5076, TX Registration No. F-00548

CONTRACT NO. 20-473/474 | PID: 2983

# 8" WATER MAIN
## RAVENDALE LANE
## FROM MATILDA STREET EAST
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| SWG | SWG | FEB. 2021 | 4110 | 696 | 25 |

2/2/2021
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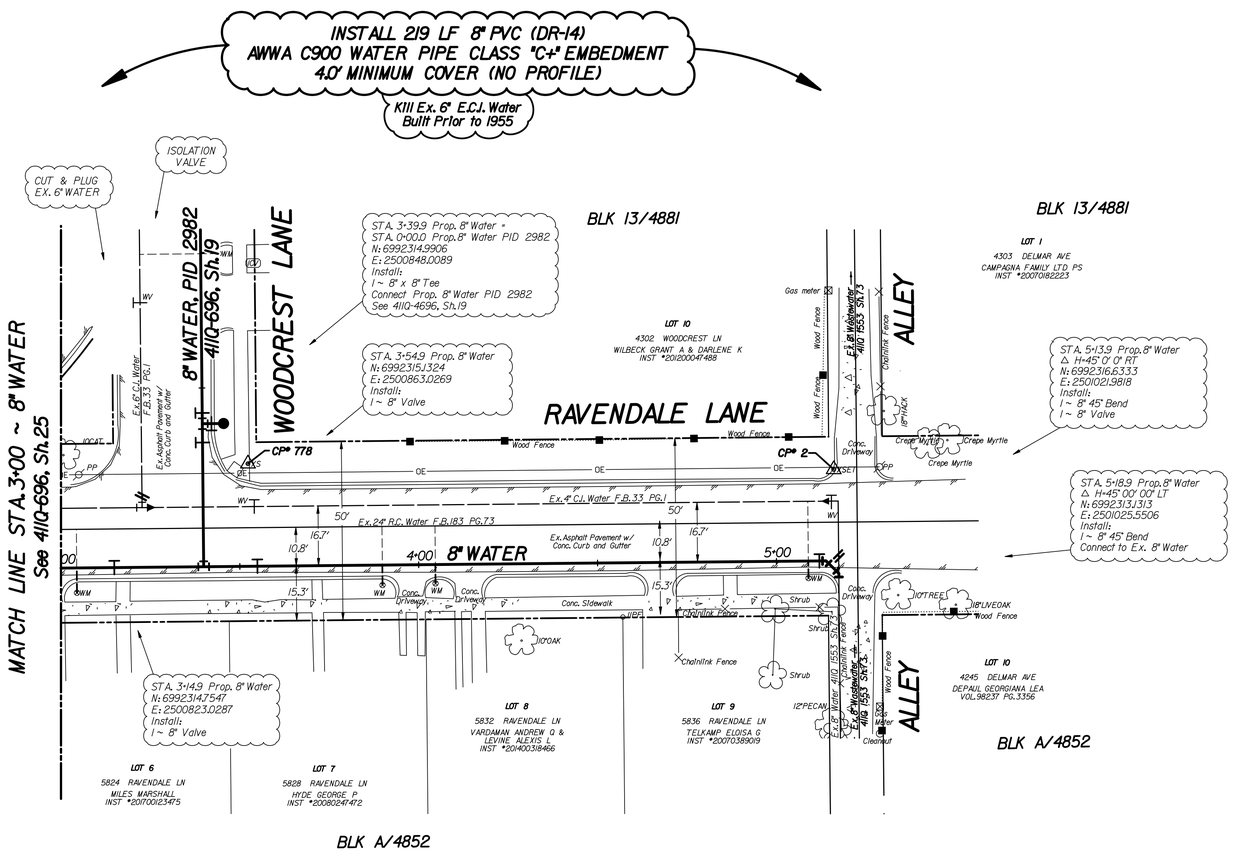


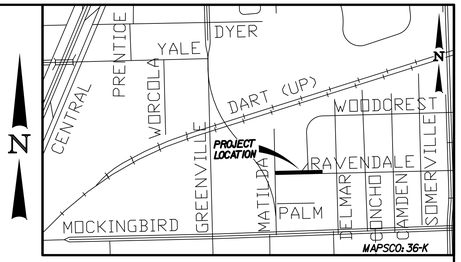


**UNDERGROUND UTILITIES**

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

**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 ~ 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 ONCOR Two Working Days Prior To Construction.
Tele: 1-800-344-8377

Notes:
1) See General Notes.
2) The Ground Survey was performed by BDS Technologies, Inc. on 03/13/2020. The design relies on assumptions provided by the survey.
3) Contractor shall locate all existing water services and water meters prior to any construction (No Separate Pay). Not all water meters were found during the ground survey. All water services shall be connected to the proposed water main.

REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

**CONTROL POINT 778**
"X"CUT SET IN CONCRETE S/WALK AT THE NORTHEAST CORNER OF WOODCREST LN AND RAVENDALE LN +/- 524 FEET EAST OF THE CENTERLINE OF MATILDA LN.
N: 6992343.812, E: 2500860.381, ELEV = 605.2908

**CONTROL POINT 2**
"X"CUT SET ON TOP OF CURB AT THE ENTRANCE TO THE ALLEY BETWEEN HSE # 4302 WOODCREST LN AND 4303 DELMAR LN +/- 15 FEET NORTH OF THE CENTERLINE OF RAVENDALE LN.
N: 6992342.217, E: 2501024.115, ELEV = 603.314

**BENCHMARK 36-K-5S**
BM COD: STD.WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ANITA ST.
ELEV = 609.2093

**BENCHMARK 36-K-8S**
BM COD: STD.WDBM ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVE AND ELLSWORTH AVE.
ELEV = 601.6317

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

STATE OF TEXAS
MD SHAMSUL AREFIN
83867
LICENSED PROFESSIONAL ENGINEER
P.E.
2/2/2021

REFERENCES
WATER
28 - 28 W
WASTEWATER
28 - 28 S

CRIADO
4100 SPRING VALLEY RD.
SUITE 1001
DALLAS, TX 75244
Tel 972.392.9092
Firm No. F-4373

STREAM WATER GROUP, INC.
ENGINEERS & PLANNERS
9401 LBJ Frwy, Suite 104
Dallas, TX 75243
Phone: 800-446-8076, TX Registration No. F-005488

CONTRACT NO. 20-473/474 | PID: 2983

# 8" WATER MAIN
## RAVENDALE LANE
## FROM MATILDA STREET EAST
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
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| SWG | SWG | FEB. 2021 | 411Q | 696 | 26 |

2/2/2021
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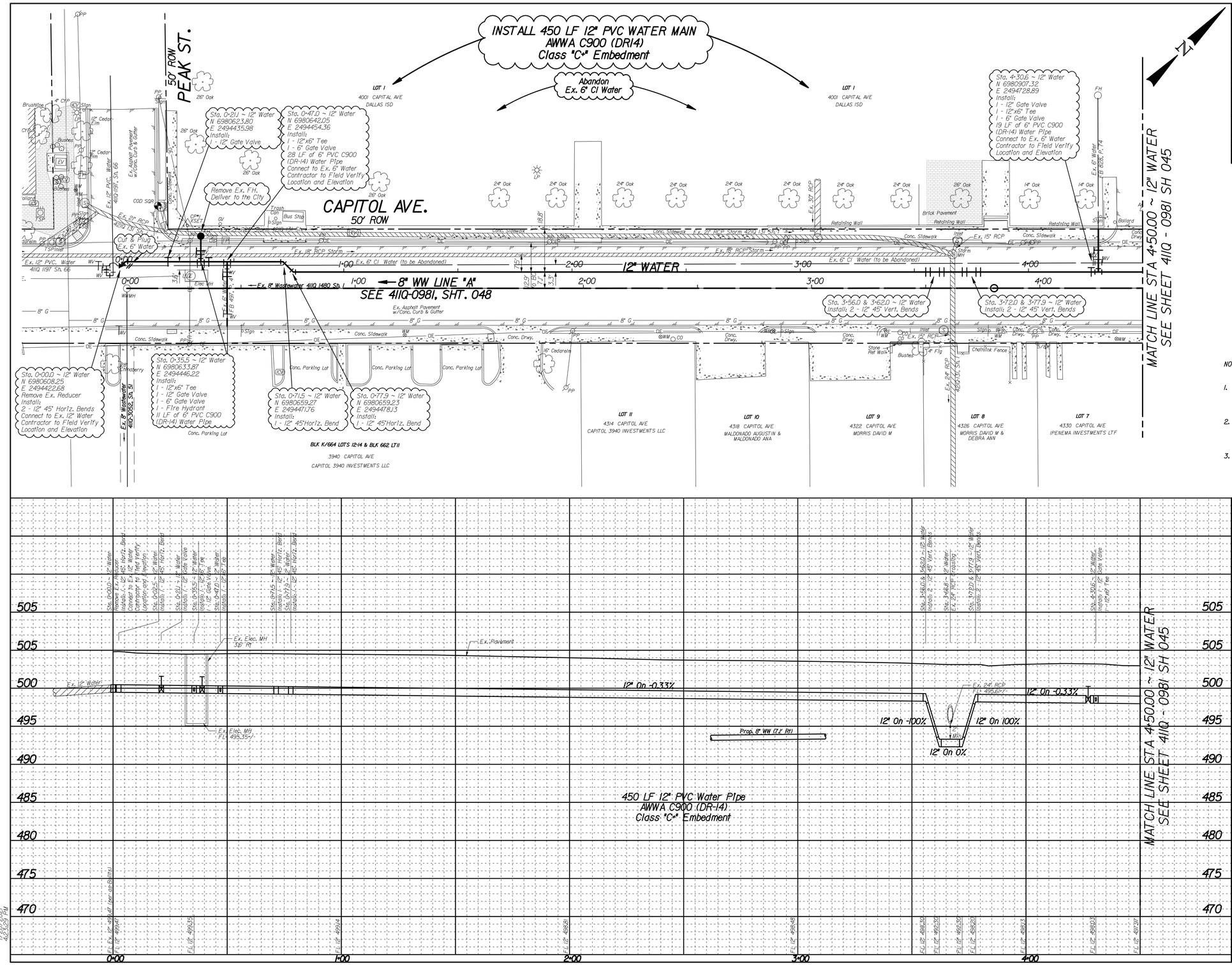


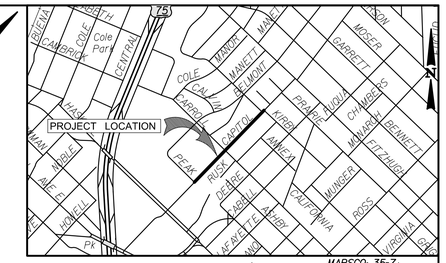


**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

**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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 02/24/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
3. 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.




| REVISIONS | | | |
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| REV NO. | DATE | DESCRIPTION | BY |
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**BENCHMARKS & CONTROL POINTS**

BENCHMARK COD
SQUARE CUT ON TOP OF CONCRETE CURB CENTER OF RADIUS NORTHEAST CORNER OF DEERE ST. AND KIRBY ST. IN FRONT OF POWER POLE.

ELEV = 508.71

BENCHMARK COD
SQUARE CUT ON CONCRETE CURB CENTER OF STORM SEWER INLET AT NORTHWEST CORNER OF KIRBY ST. AND CAPITOL AVE.

ELEV = 509.78

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,980,541.17 | 2,494,430.83 | 504.374 | X-CUT |
| CP-2 | 6,980,946.66 | 2,494,748.00 | 503.135 | X-CUT |
| CP-3 | 6,981,154.25 | 2,494,948.10 | 501.711 | X-CUT |

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

REFERENCES
WATER
33-26W, 33-27W
WASTEWATER
33-26S (B), 33-26S (D), 33-27S (A)

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

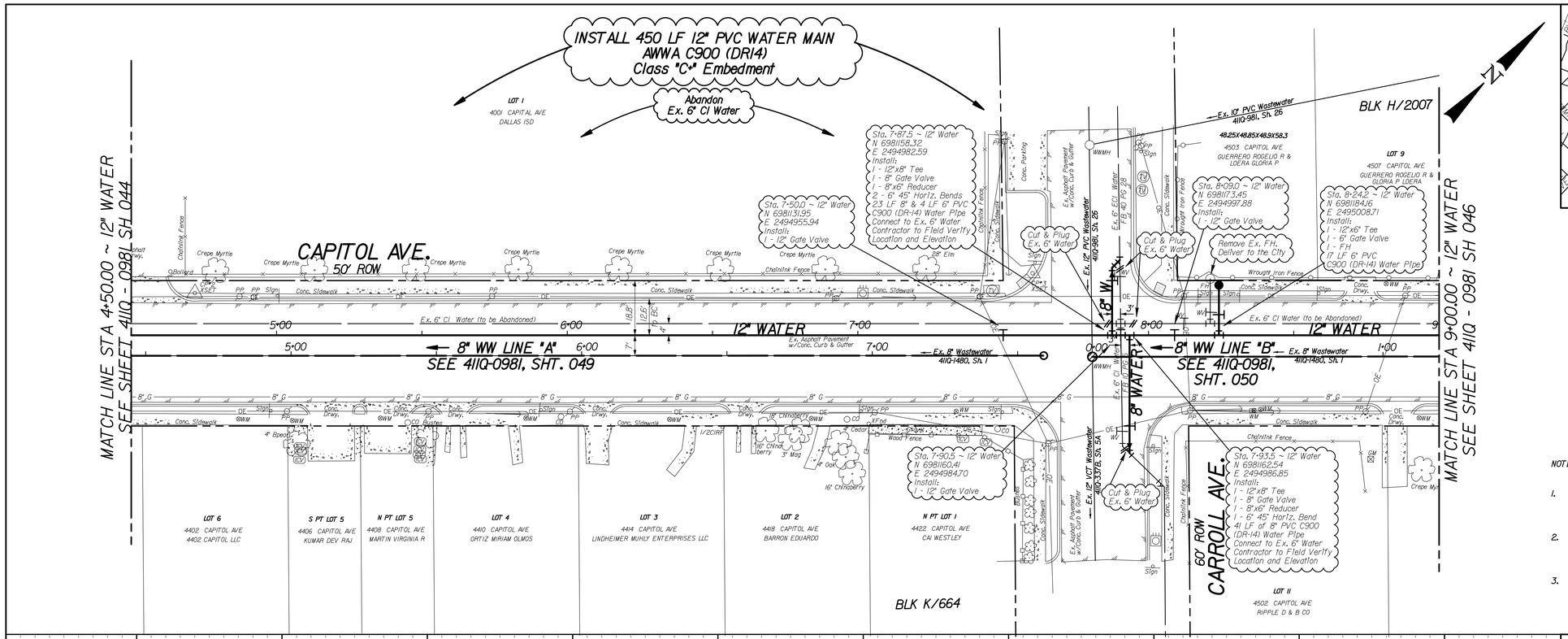
CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

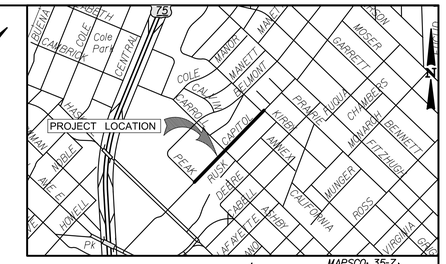
BDS Technologies, Inc.
BDS Technologies, Inc.
11757 Ranch Series, Suite 1127
Dallas, Texas 75234
Texas Board of Professional Engineers Firm Registration No. 8-8837
Surveying, Geodetic & Environmental Services
A Subsidiary of Cobb Partners, Ltd.

CONTRACT NO. 20-473/474 | PID: 3409

# 12" WATER MAIN
## CAPITOL AVENUE
## FROM PEAK STREET TO KIRBY STREET
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 0981 | 044 |




CAUTION ~ POWER !
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Contact Oncor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

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

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2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) 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 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

BENCHMARK COD
SQUARE CUT ON TOP OF CONCRETE CURB CENTER OF RADIUS NORTHEAST CORNER OF DEERE ST. AND KIRBY ST. IN FRONT OF POWER POLE.

ELEV = 508.71

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SQUARE CUT ON CONCRETE CURB CENTER OF STORM SEWER INLET AT NORTHWEST CORNER OF KIRBY ST. AND CAPITOL AVE.

ELEV = 509.78

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,980,641.17 | 2,494,430.83 | 504.374 | X-CUT |
| CP-2 | 6,980,946.66 | 2,494,748.00 | 503.135 | X-CUT |
| CP-3 | 6,981,154.25 | 2,494,948.10 | 501.711 | X-CUT |

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

REFERENCES
WATER
33-26W, 33-27W
WASTEWATER
33-26S (B), 33-26S (D), 33-27S (A)

STATE OF TEXAS
DAVID B. HAWKINS
85371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8092
Firm No. F-4075

BDS Technologies, Inc.
2909 Technology, Inc.
11.11.2020 Rev. 1.0.0.0.0.0.215
Dallas, Texas 75236
Texas Board of Professional Engineers Firm Registration No. B-8423

CONTRACT NO. 20-473/474 | PID: 3409

# 12" WATER MAIN
## CAPITOL AVENUE
## FROM PEAK STREET TO KIRBY STREET
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 41IQ | 0981 | 045 |

1/29/2021
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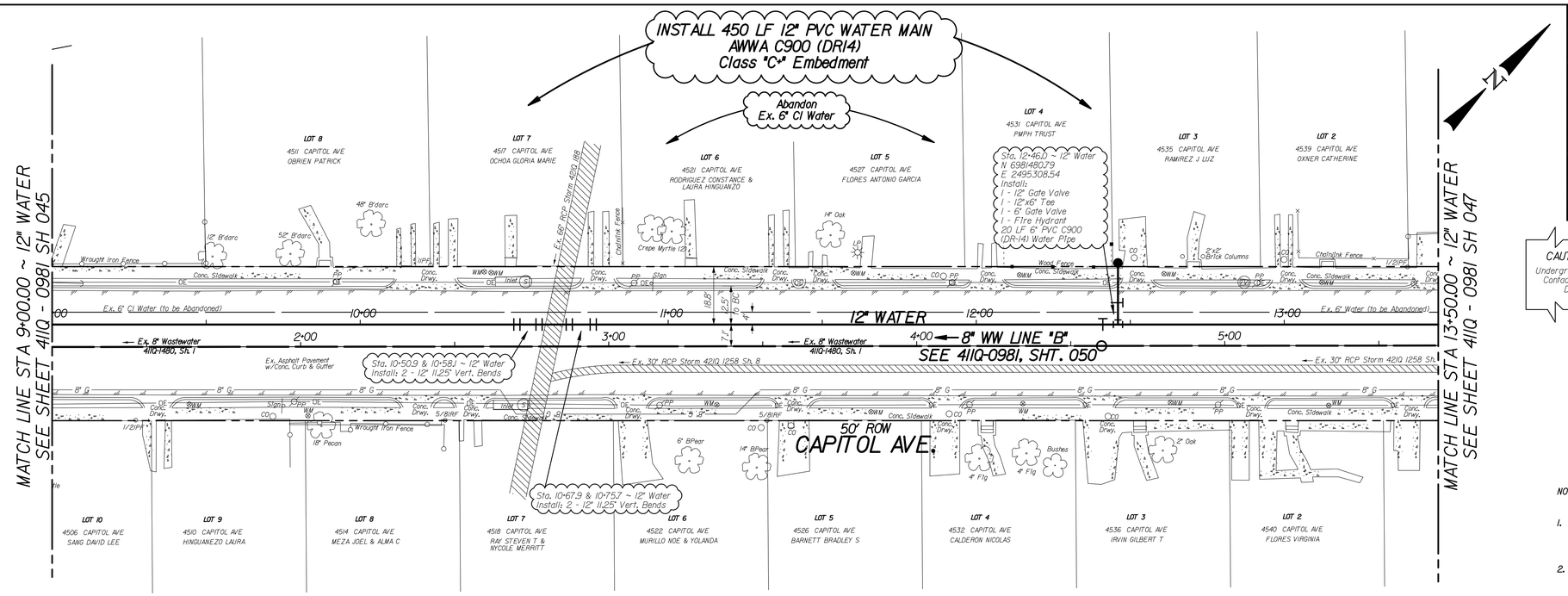


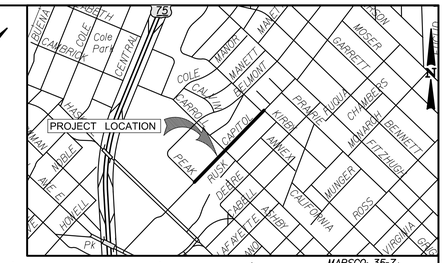


**CAUTION ~ FIBER OPTIC !**
Underground Fiber Optic Cables In Area
Contact Fiber Optic Co. Two Working
Days Prior To Constuction.
Tele: 1-800-344-8377

**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 02/24/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
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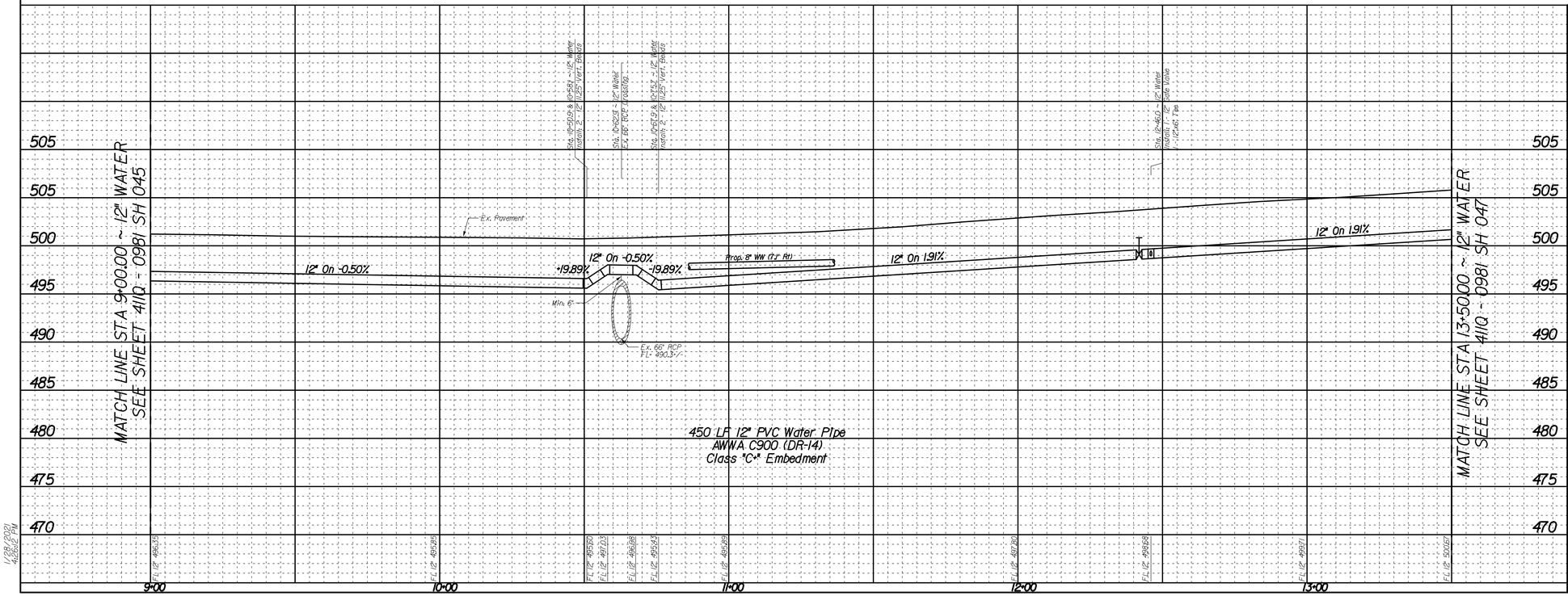



REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

BENCHMARK COD
SQUARE CUT ON TOP OF CONCRETE CURB CENTER OF RADIUS NORTHEAST CORNER OF DEERE ST. AND KIRBY ST. IN FRONT OF POWER POLE.

ELEV = 508.71

BENCHMARK COD
SQUARE CUT ON CONCRETE CURB CENTER OF STORM SEWER INLET AT NORTHWEST CORNER OF KIRBY ST. AND CAPITOL AVE.

ELEV = 509.78

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,980,541.17 | 2,494,430.83 | 504.374 | X-CUT |
| CP-2 | 6,980,946.66 | 2,494,748.00 | 503.135 | X-CUT |
| CP-3 | 6,981,154.25 | 2,494,948.10 | 501.711 | X-CUT |

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

REFERENCES
WATER
33-26W, 33-27W
WASTEWATER
33-26S (B), 33-26S (D), 33-27S (A)

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

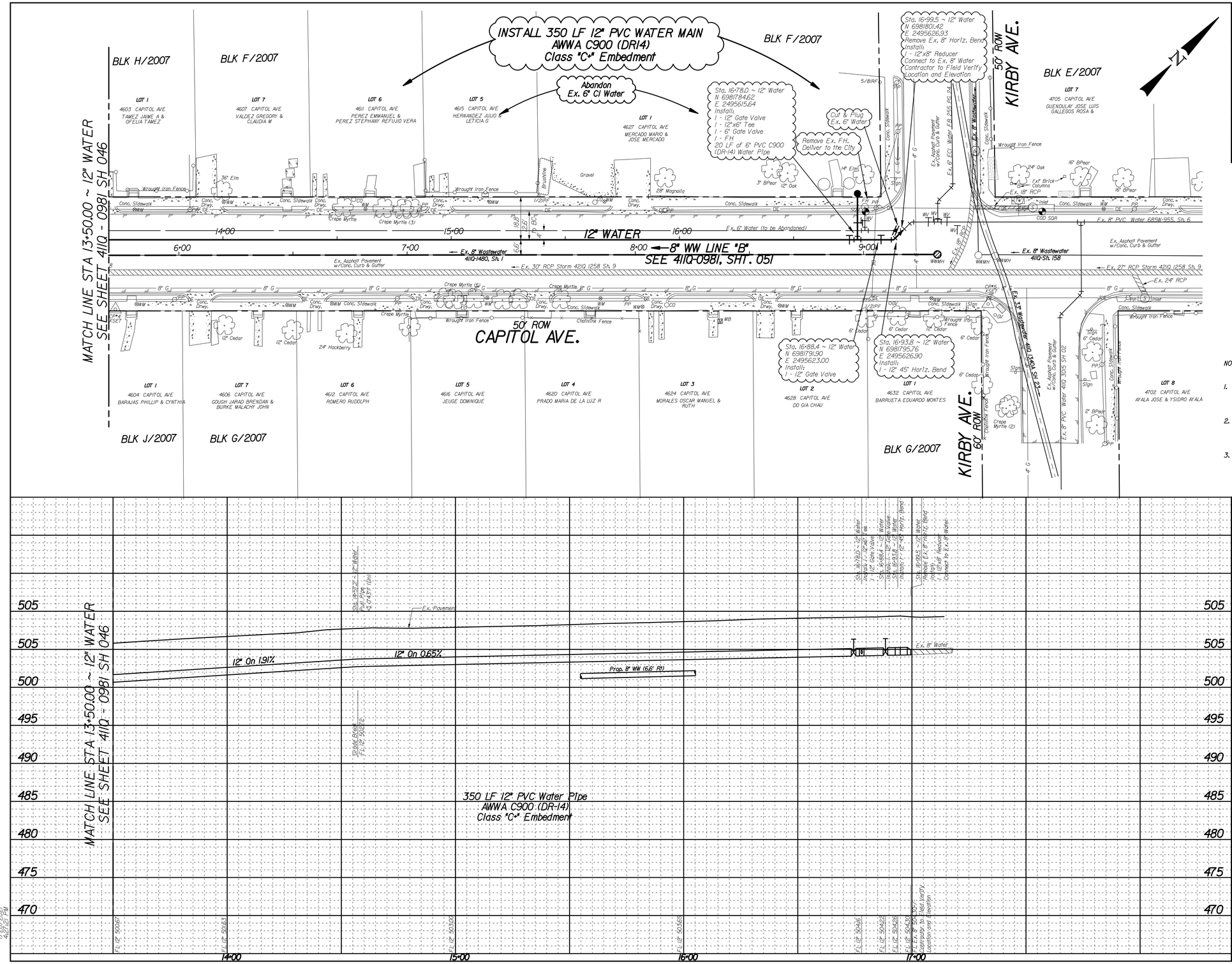
BDS Technologies, Inc.
BDS Technologies, Inc.
11777 Preston Trails, Suite 1127
Dallas, Texas 75230
Texas Board of Professional Engineers Firm Registration No. F-8837
Surveying Firm Registration No. 10194300
A Subsidiary of CRIAQ

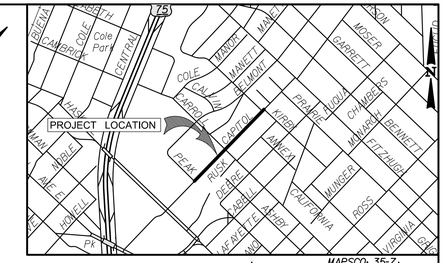
CONTRACT NO. 20-473/474 | PID: 3409

# 12" WATER MAIN
## CAPITOL AVENUE
### FROM PEAK STREET TO KIRBY STREET
### DALLAS WATER UTILITIES
### CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 0981 | 046 |

1/28/2021
4:28:12 PM




**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 02/24/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
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REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
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BENCHMARKS & CONTROL POINTS

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SQUARE CUT ON CONCRETE CURB CENTER OF STORM SEWER INLET AT NORTHWEST CORNER OF KIRBY ST. AND CAPITOL AVE.
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Horizontal Scale: 1" = 20'
0' 20' 40'
Vertical Scale: 1" = 6'
0' 6' 12'

REFERENCES
WATER
33-26W, 33-27W
WASTEWATER
33-26S (B), 33-26S (D), 33-27S (A)

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

BDS Technologies, Inc.
11777 Preston Trails, Suite 1127
Dallas, Texas 75230
Texas Board of Professional Engineers Firm Registration No. F-14837
Surveyors, Engineers, Environmental Scientists & Construction Inspectors

CONTRACT NO. 20-473/474 | PID: 3409

# 12" WATER MAIN
## CAPITOL AVENUE
## FROM PEAK STREET TO KIRBY STREET
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
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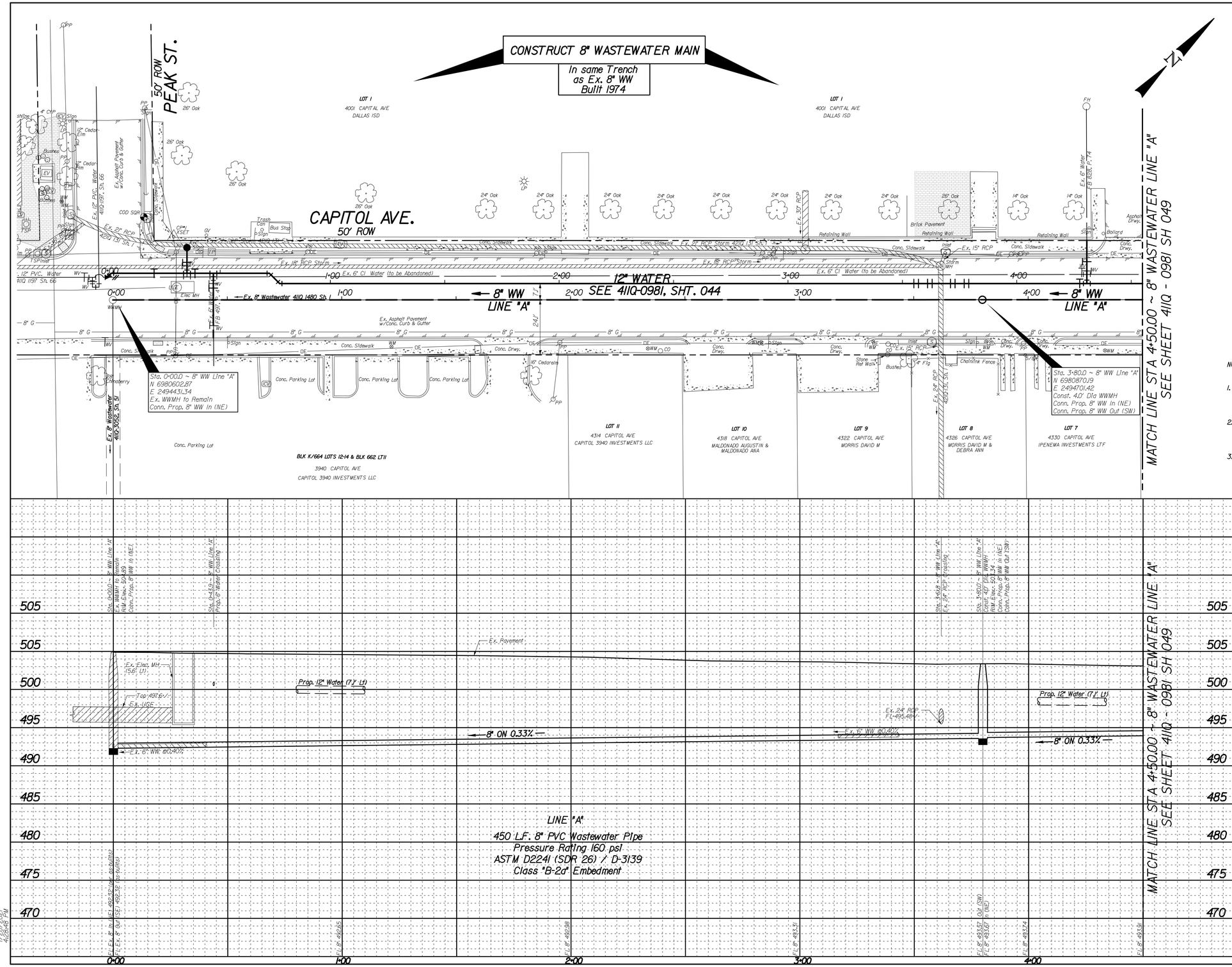


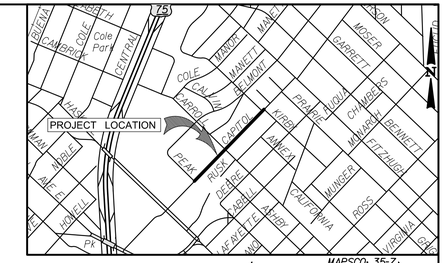


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Tele: 1-800-344-8377

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Contact ATMOS Energy Corp. Two Working Days Prior To Construction.
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REVISIONS

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BENCHMARKS & CONTROL POINTS

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| CP-2 | 6,980,946.66 | 2,494,748.00 | 503.135 | X-CUT |
| CP-3 | 6,981,154.25 | 2,494,948.10 | 501.711 | X-CUT |

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

REFERENCES
WATER
33-26W, 33-27W
WASTEWATER
33-26S (B), 33-26S (D), 33-27S (A)

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel: 972.392.8892
Firm No. F-4075

BDS Technologies, Inc.
BDS Technologies, Inc.
11777 Preston Trails, Suite 1127
Dallas, Texas 75230
Texas Board of Professional Engineers Firm Registration No. F-14837
Surveyor: Kimley-Horn and Associates
A Subsidiary of BDS Technologies, Inc.

CONTRACT NO. 20-473/474 | PID: 3409

# 8" WASTEWATER MAIN LINE "A"

## CAPITOL AVENUE

FROM PEAK STREET TO KIRBY STREET

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
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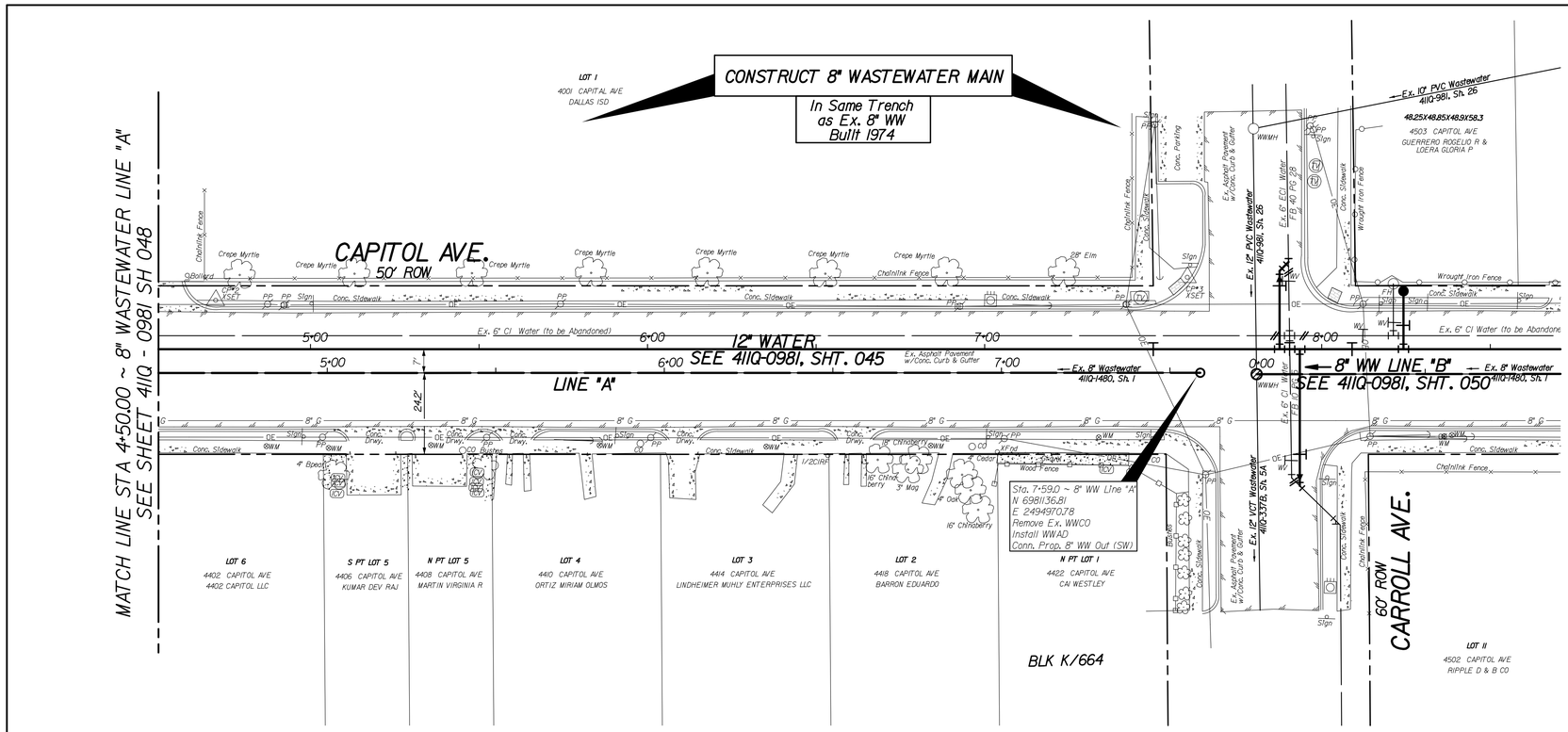


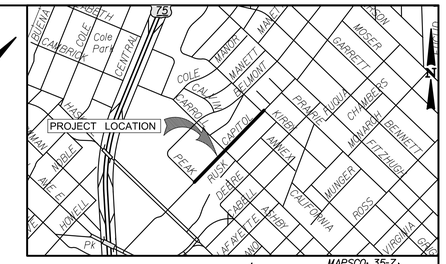


**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

**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

NOTES:

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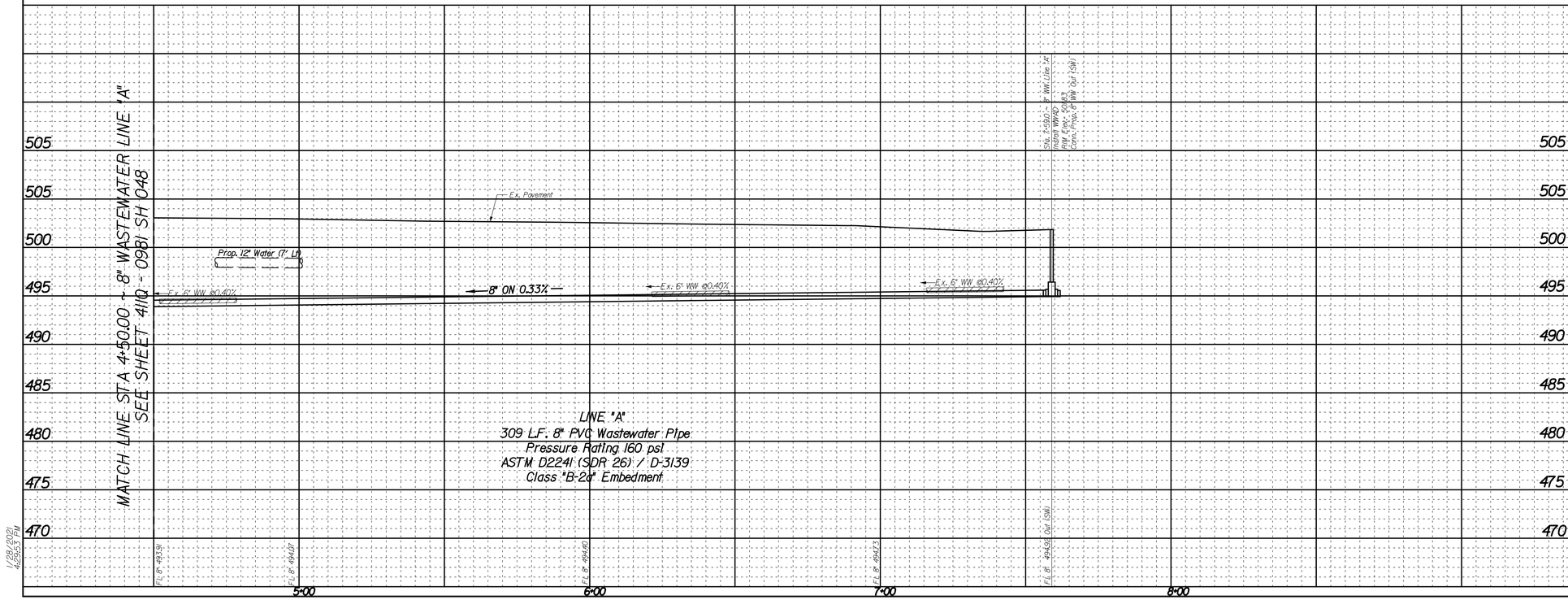


| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
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| 2 | | | |

**BENCHMARKS & CONTROL POINTS**

BENCHMARK COD
SQUARE CUT ON TOP OF CONCRETE CURB CENTER OF RADIUS NORTHEAST CORNER OF DEERE ST. AND KIRBY ST. IN FRONT OF POWER POLE.

ELEV = 508.71

BENCHMARK COD
SQUARE CUT ON CONCRETE CURB CENTER OF STORM SEWER INLET AT NORTHWEST CORNER OF KIRBY ST. AND CAPITOL AVE.

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| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,980,541.17 | 2,494,430.83 | 504.374 | X-CUT |
| CP-2 | 6,980,946.66 | 2,494,748.00 | 503.135 | X-CUT |
| CP-3 | 6,981,154.25 | 2,494,948.10 | 501.711 | X-CUT |

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

REFERENCES
WATER
33-26W, 33-27W
WASTEWATER
33-26S (B), 33-26S (D), 33-27S (A)

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

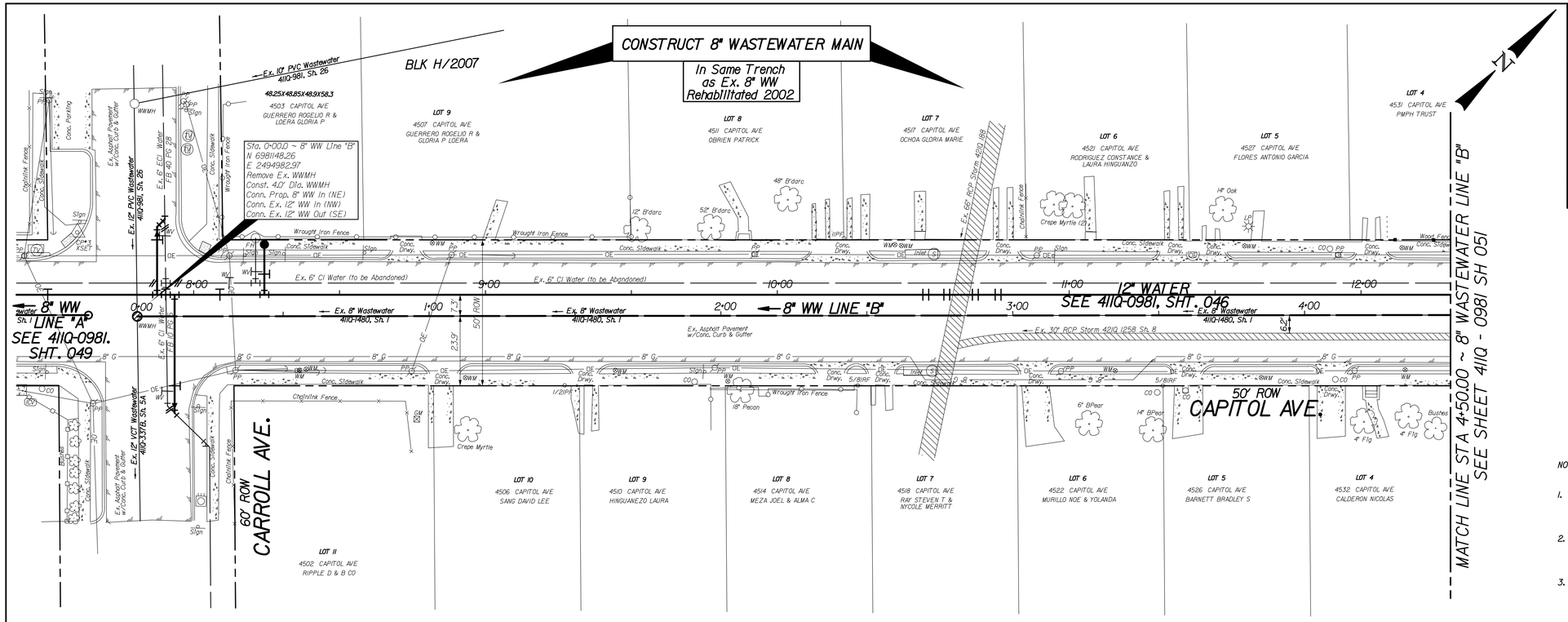
CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

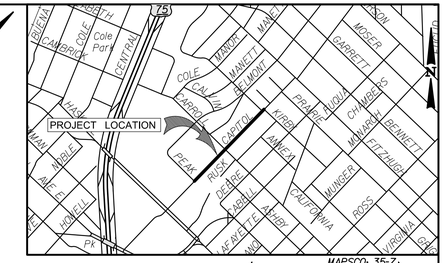
BDS Technologies, Inc.
11757 Katy Freeway, Suite 1CC7
Dallas, Texas 77079
Texas Board of Professional Engineers Firm Registration No. F-14837
Surveying Firm No. 10194382
Professional Licensed Surveyors
A Certified Woman Owned Business

| CONTRACT NO. 20-473/474 | PID: 3409 |
|---|---|

# 8" WASTEWATER MAIN LINE "A"
## CAPITOL AVENUE
## FROM PEAK STREET TO KIRBY STREET
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 0981 | 049 |




CAUTION ~ POWER !
Overhead Electrical Cables In Area
Contact Oncor 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

NOTES:

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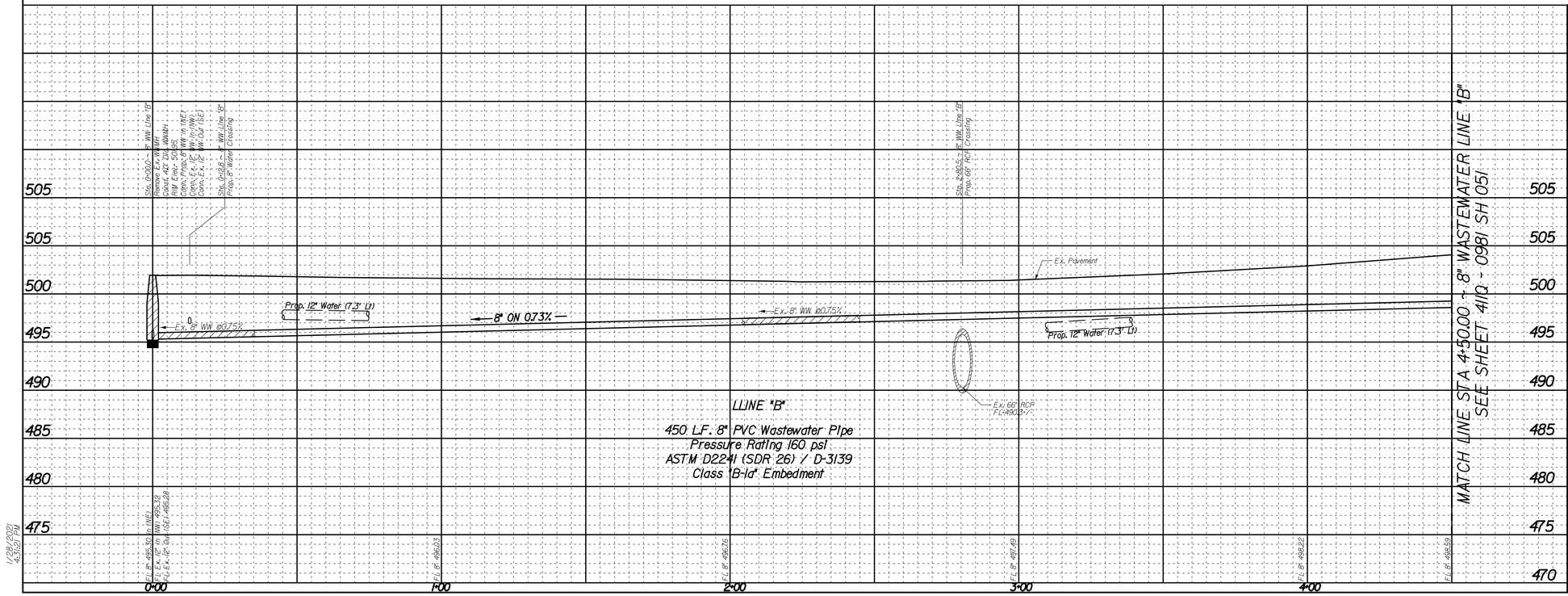


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REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

BENCHMARK COD
SQUARE CUT ON TOP OF CONCRETE CURB CENTER OF RADIUS NORTHEAST CORNER OF DEERE ST. AND KIRBY ST. IN FRONT OF POWER POLE.

ELEV = 508.71

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Horizontal Scale: 1" = 20'
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STATE OF TEXAS
DAVID B. HAWKINS
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REGISTERED PROFESSIONAL ENGINEER
01.29.2021

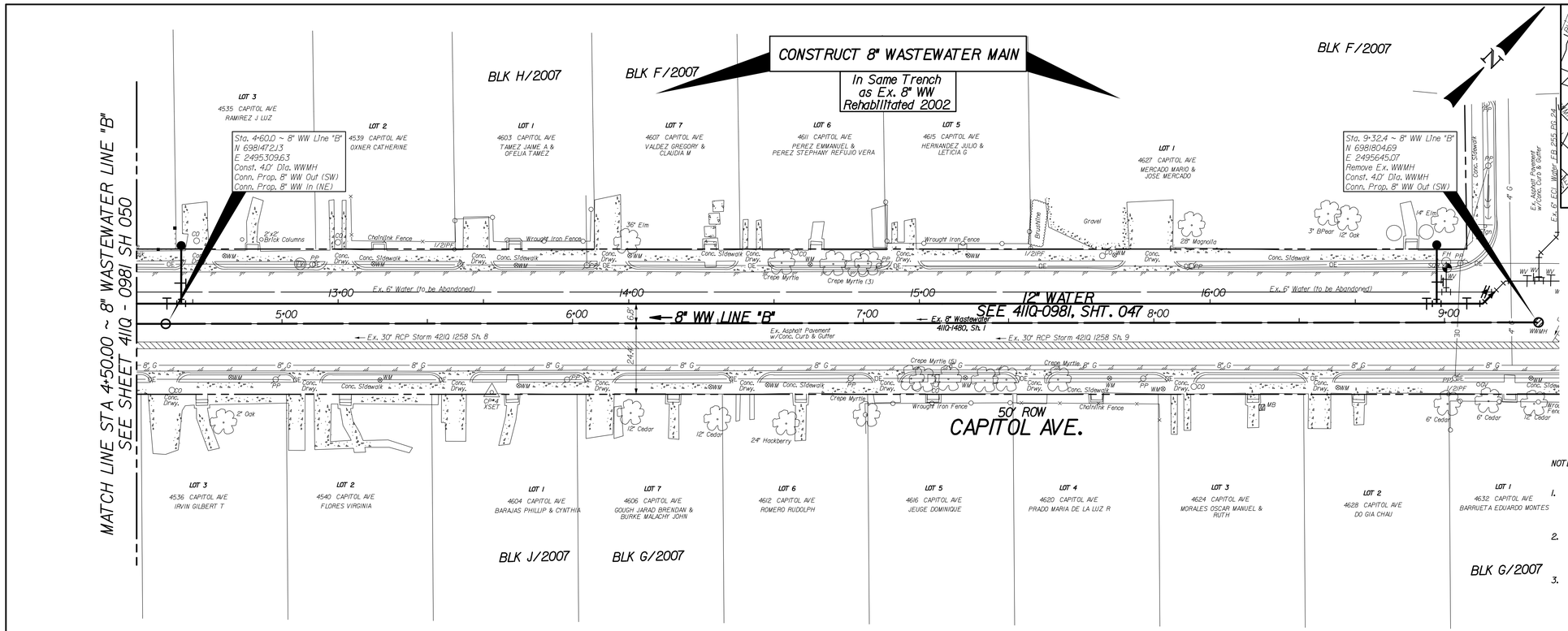
CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

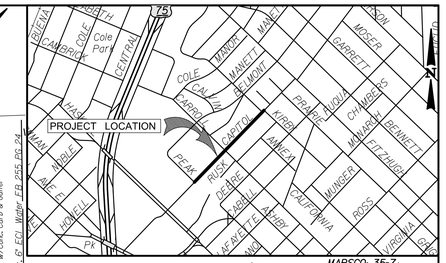
BDS Technologies, Inc.
BDS Technologies, Inc.
11311 Plano Road, Suite 107
Dallas, Texas 75238
Texas Board of Professional Engineers Firm Registration No. F-8437
Surveyor, Civil Engineer, Environmental Services
A Certified Woman Owned Business

CONTRACT NO. 20-473/474 | PID: 3409

# 8" WASTEWATER MAIN LINE "B"
## CAPITOL AVENUE
## FROM PEAK STREET TO KIRBY STREET
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 4110 | 0981 | 050 |

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**CAUTION ~ GAS !**
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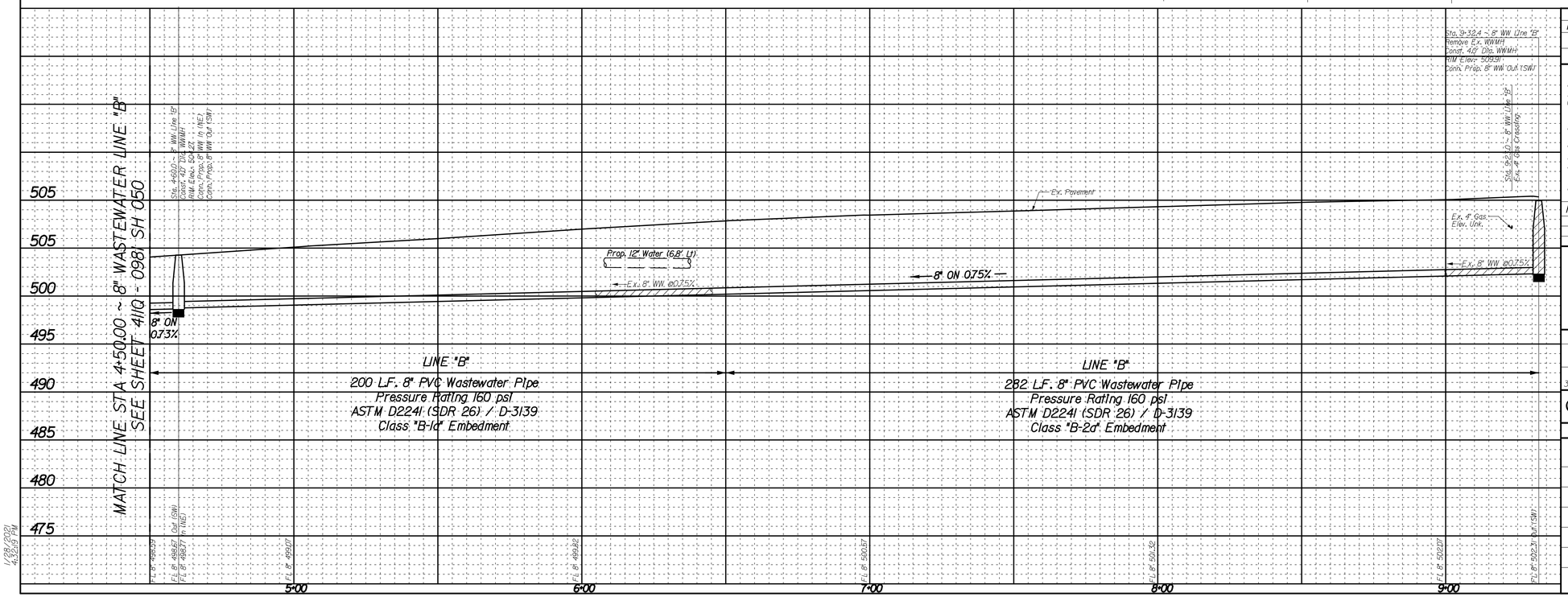


1/28/2021
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## REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

## BENCHMARKS & CONTROL POINTS

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SQUARE CUT ON TOP OF CONCRETE CURB CENTER OF RADIUS NORTHEAST CORNER OF DEERE ST. AND KIRBY ST. IN FRONT OF POWER POLE.

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| CP-1 | 6,980,641.17 | 2,494,430.83 | 504.374 | X-CUT |
| CP-2 | 6,980,946.66 | 2,494,748.00 | 503.135 | X-CUT |
| CP-3 | 6,981,154.25 | 2,494,948.10 | 501.711 | X-CUT |

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

## REFERENCES

WATER
33-26W, 33-27W

WASTEWATER
33-26S (B), 33-26S (D), 33-27S (A)

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED
PROFESSIONAL ENGINEER
01.29.2021

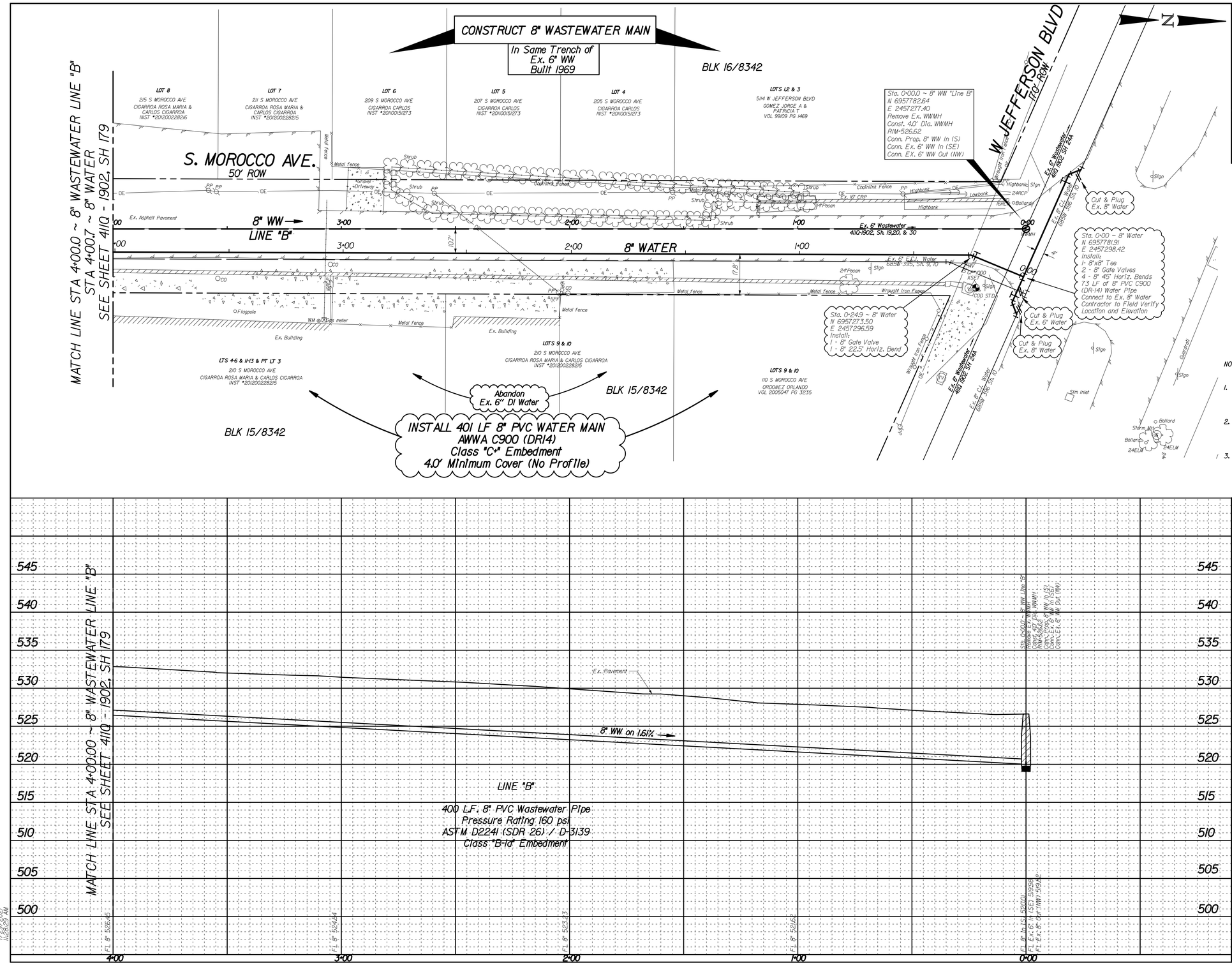
CRIADO
6100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75240
Tel 972.392.8092
Firm No. F-4075

BDS Technologies, Inc.
3838 Technology Inc.
11127 Pagoda Street, Suite 9-215
Dallas, Texas 75238
Texas Board of Professional Engineers Registration
Firm No. F-4400
Engineers • Surveyors • Planners
& Construction Management

CONTRACT NO. 20-473/474 | PID: 3409

# 8" WASTEWATER MAIN LINE "B"
## CAPITOL AVENUE
## FROM PEAK STREET TO KIRBY STREET
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 0981 | 051 |




**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 02/14/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
3. 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.




1/29/2021
11:26:29 AM

| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

## BENCHMARKS & CONTROL POINTS

**COD BENCHMARK**
A STANDARD WDBM SET IN CENTER OF EAST CONCRETE HEADWALL TO 1.5'X2.5'X38' CONCRETE ARCH CULVERT UNDER JUSTIN AVE. AT SOUTHEAST CORNER OF JEFFERSON BLVD. AND JUSTIN AVE.
ELEV = 522.76

**COD BENCHMARK**
A STANDARD WDBM SET ON NORTHWEST CORNER STORM OF SEWER DROP INLET AT THE SOUTHEAST CORNER OF INTERSECTION OF JEFFERSON BLVD. AND MOROCCO AVE.
ELEV = 526.56

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,957,250.452 | 2,457,280.994 | 534.422 | NAIL SET |
| CP-2 | 6,956,714.475 | 2,457,305.788 | 503.678 | NAIL SET |
| CP-1000 | 6,957,760.488 | 2,457,303.44 | 526.426 | X-CUT |

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

REFERENCES
WATER
45-14W
WASTEWATER
45-14S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

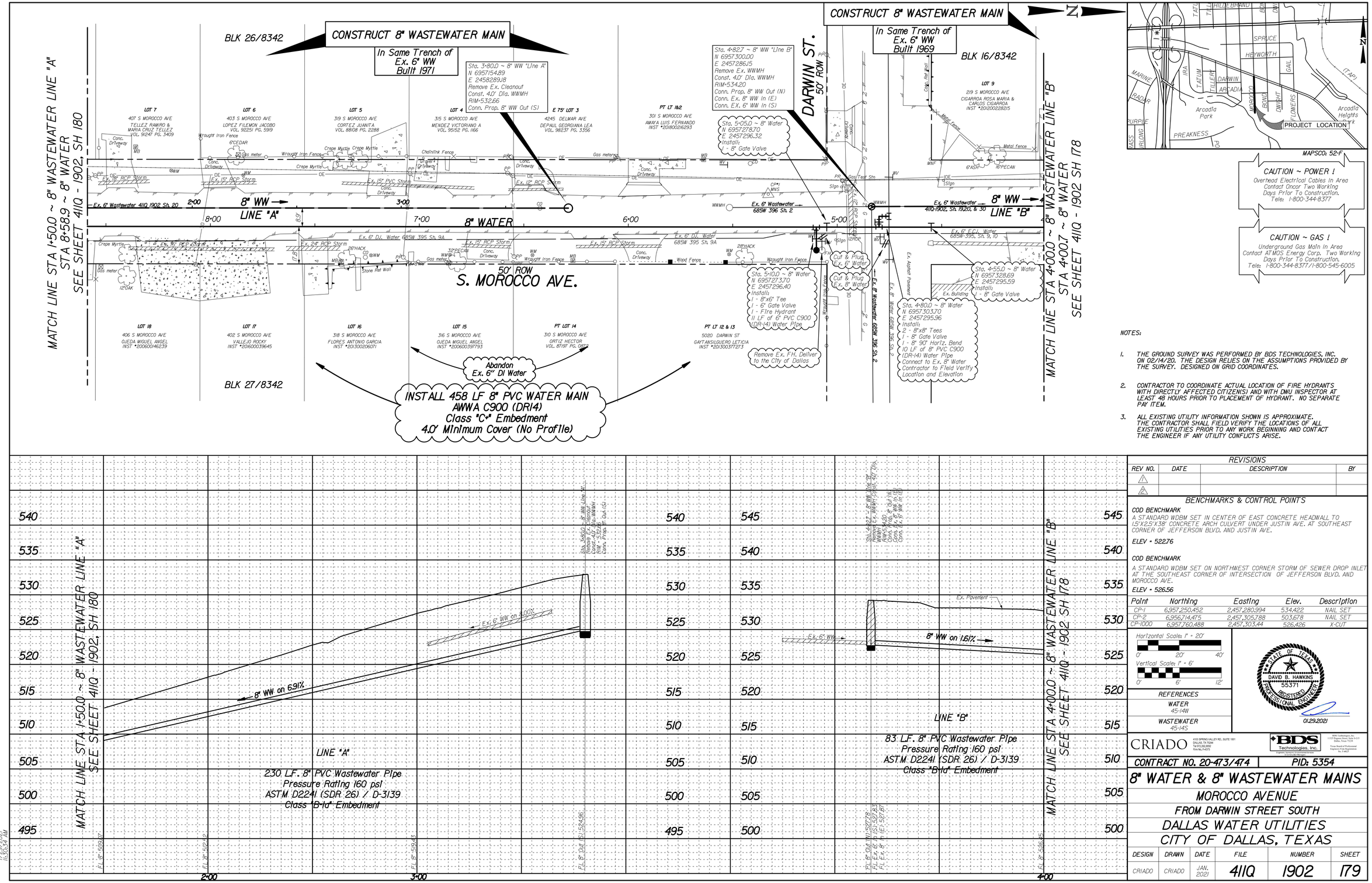
CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8092
Firm No. F-4573

BDS Technologies, Inc.
Texas Board of Professional Engineers Registration No. F-4802

| CONTRACT NO. 20-473/474 | PID: 5354 |
|---|---|

# 8" WATER & 8" WASTEWATER MAINS
## MOROCCO AVENUE
## FROM DARWIN STREET SOUTH
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 1902 | 178 |







MAPSCO: 52-F

**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 02/14/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
3. 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.

REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

COD BENCHMARK
A STANDARD WDBM SET IN CENTER OF EAST CONCRETE HEADWALL TO 1.5'X2.5'X38' CONCRETE ARCH CULVERT UNDER JUSTIN AVE. AT SOUTHEAST CORNER OF JEFFERSON BLVD. AND JUSTIN AVE.
ELEV = 522.76

COD BENCHMARK
A STANDARD WDBM SET ON NORTHWEST CORNER STORM OF SEWER DROP INLET AT THE SOUTHEAST CORNER OF INTERSECTION OF JEFFERSON BLVD. AND MOROCCO AVE.
ELEV = 526.56

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,957,250.452 | 2,457,280.994 | 534.422 | NAIL SET |
| CP-2 | 6,956,714.475 | 2,457,305.788 | 503.678 | NAIL SET |
| CP-1000 | 6,957,760.488 | 2,457,303.44 | 526.426 | X-CUT |

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

REFERENCES
WATER
45-14W
WASTEWATER
45-14S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4573

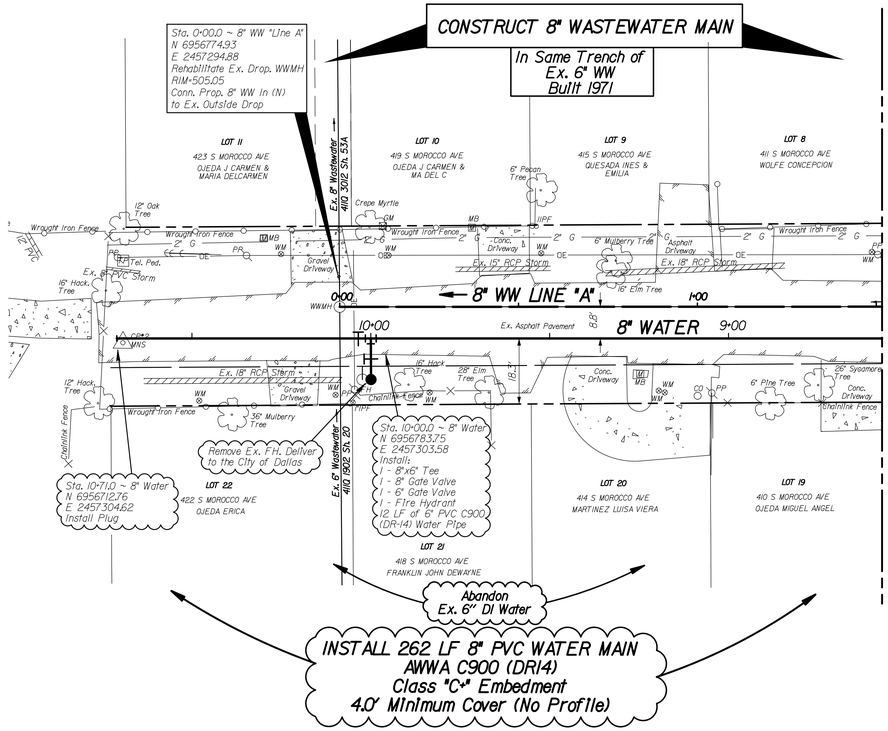
BDS Technologies, Inc.
1320 Pagemill Road, Suite D-2,3
Dallas, Texas 75234
Texas Board of Professional Engineers Registration No. F-4600

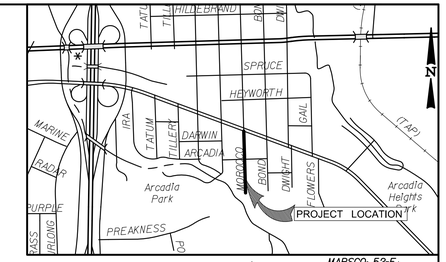
CONTRACT NO. 20-473/474 | PID: 5354

# 8" WATER & 8" WASTEWATER MAINS
## MOROCCO AVENUE
## FROM DARWIN STREET SOUTH
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 1902 | 179 |

1/29/2021
11:53:34 AM



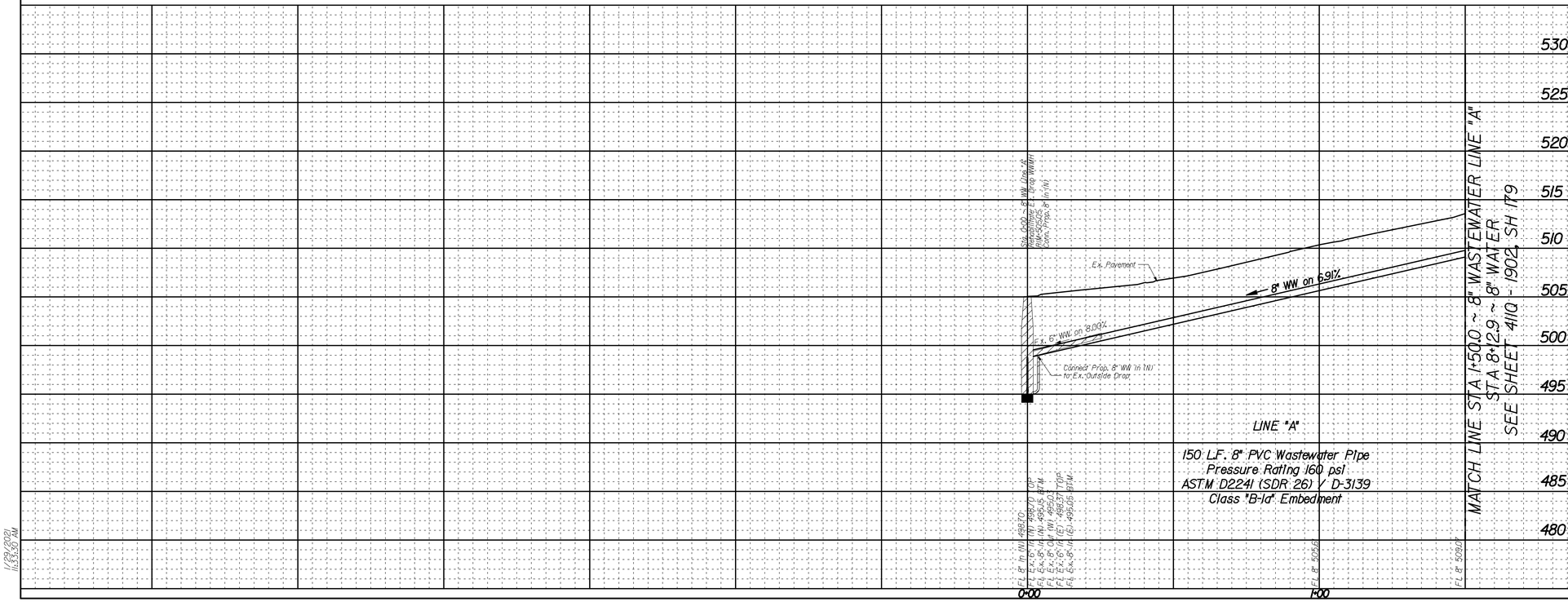

MAPSCO: 52-F

**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 02/14/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
3. 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.

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REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

COD BENCHMARK
A STANDARD WDBM SET IN CENTER OF EAST CONCRETE HEADWALL TO 1.5'X2.5'X38' CONCRETE ARCH CULVERT UNDER JUSTIN AVE. AT SOUTHEAST CORNER OF JEFFERSON BLVD. AND JUSTIN AVE.
ELEV = 522.76

COD BENCHMARK
A STANDARD WDBM SET ON NORTHWEST CORNER STORM OF SEWER DROP INLET AT THE SOUTHEAST CORNER OF INTERSECTION OF JEFFERSON BLVD. AND MOROCCO AVE.
ELEV = 526.56

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-1 | 6,957,250.452 | 2,457,280.994 | 534.422 | NAIL SET |
| CP-2 | 6,956,714.475 | 2,457,305.788 | 503.678 | NAIL SET X-CUT |

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

REFERENCES
WATER
45-14W
WASTEWATER
45-14S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

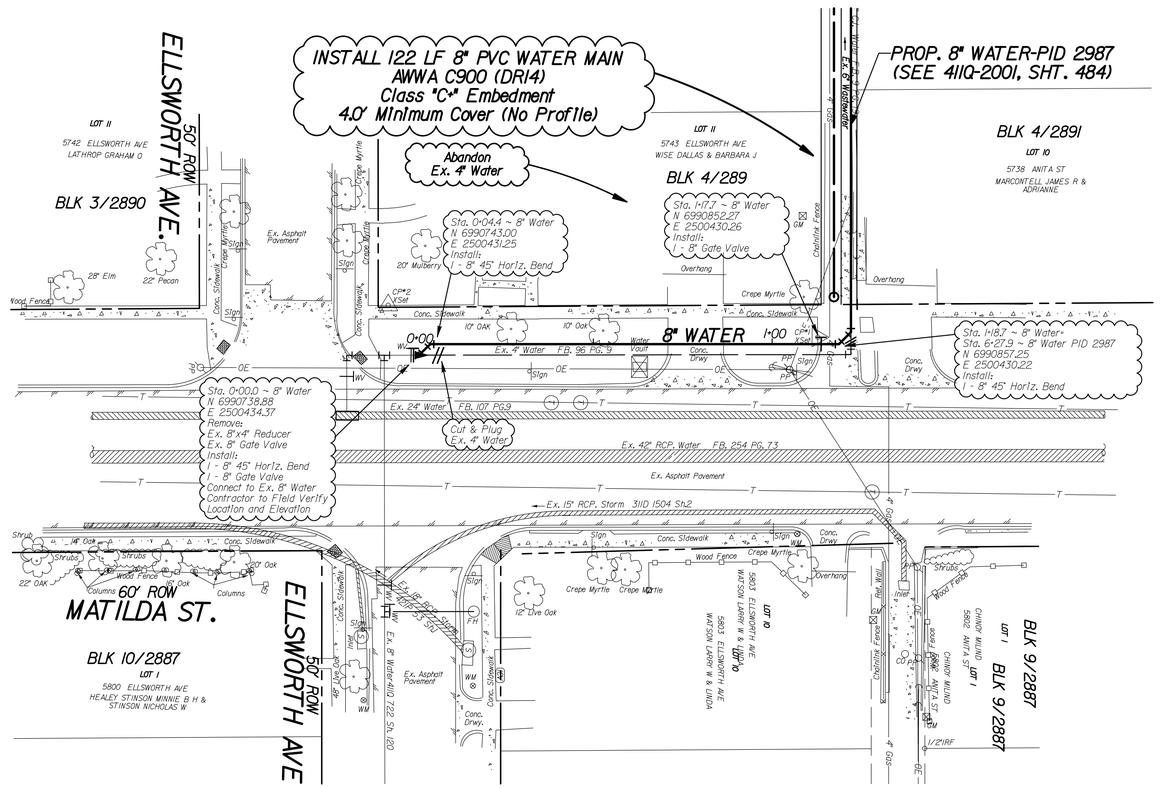
CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
Tel 972.392.8892
Firm No. F-4075

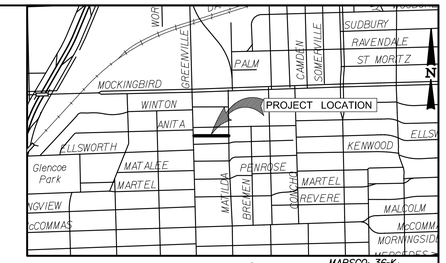
BDS Technologies, Inc.
BDS Technologies, Inc.
11720 Plaza Stone Suite D-119
Dallas, Texas 75228
Texas Board of Professional Engineers Registration No. F-4402
Surveying Firm Registration No. 10194300

CONTRACT NO. 20-473/474 | PID: 5354

# 8" WATER & 8" WASTEWATER MAINS
## MOROCCO AVENUE
## FROM DARWIN STREET SOUTH
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 1902 | 180 |




**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BDS TECHNOLOGIES, INC. ON 02/28/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
3. 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.

REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

COD BENCHMARK

A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ANITA STREET

ELEV = 609.21

COD BENCHMARK

A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ELLSWORTH AVENUE

ELEV =601.63

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-2 | 6,990,731.13 | 2,500,420.48 | 605.126 | X-CUT |
| CP-4 | 6,990,844.49 | 2,499,820.23 | 604.936 | X-CUT |

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

REFERENCES

WATER
28-28W

WASTEWATER
28-28S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED
PROFESSIONAL ENGINEER
01.29.2021

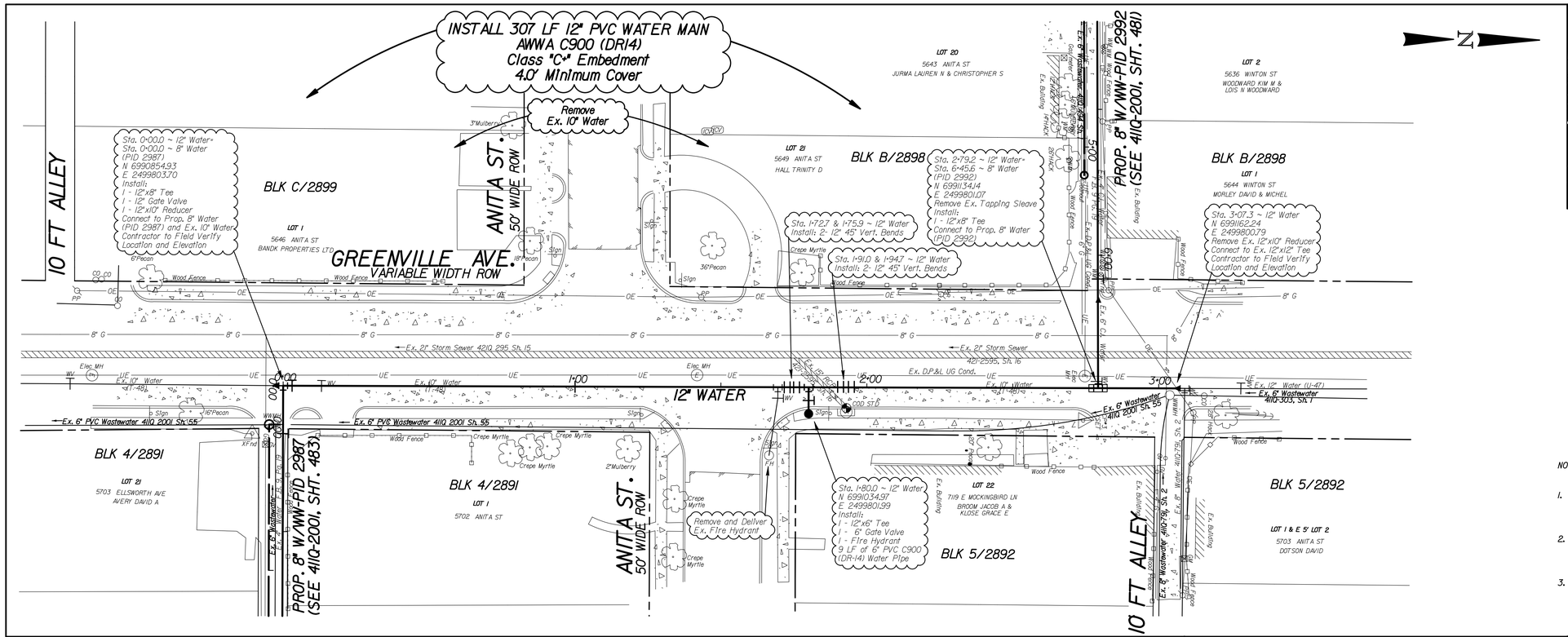
CRIADO
4100 SPRING VALLEY RD., SUITE 1901
DALLAS, TEXAS 75244
Tel 972.392.8992
Firm No. F-4373

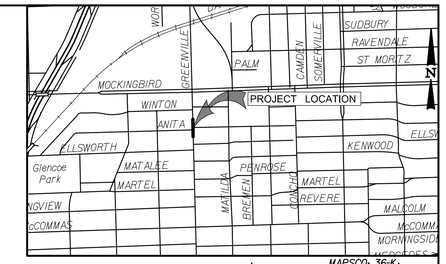
CONTRACT NO. 20-473/474 | PID: 2988

# 8" WATER MAIN
## MATILDA STREET
## FROM ELLSWORTH AVENUE NORTH
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 2001 | 485 |

1/29/2021
12:51:32 PM




**CAUTION ~ POWER !**
Overhead Electrical Cables In Area
Contact Oncor 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

NOTES:

1. THE GROUND SURVEY WAS PERFORMED BY BDS TECHNOLOGIES, INC. ON 08/12/20. THE DESIGN RELIES ON THE ASSUMPTIONS PROVIDED BY THE SURVEY. DESIGNED ON GRID COORDINATES.
2. CONTRACTOR TO COORDINATE ACTUAL LOCATION OF FIRE HYDRANTS WITH DIRECTLY AFFECTED CITIZEN(S) AND WITH DWU INSPECTOR AT LEAST 48 HOURS PRIOR TO PLACEMENT OF HYDRANT. NO SEPARATE PAY ITEM.
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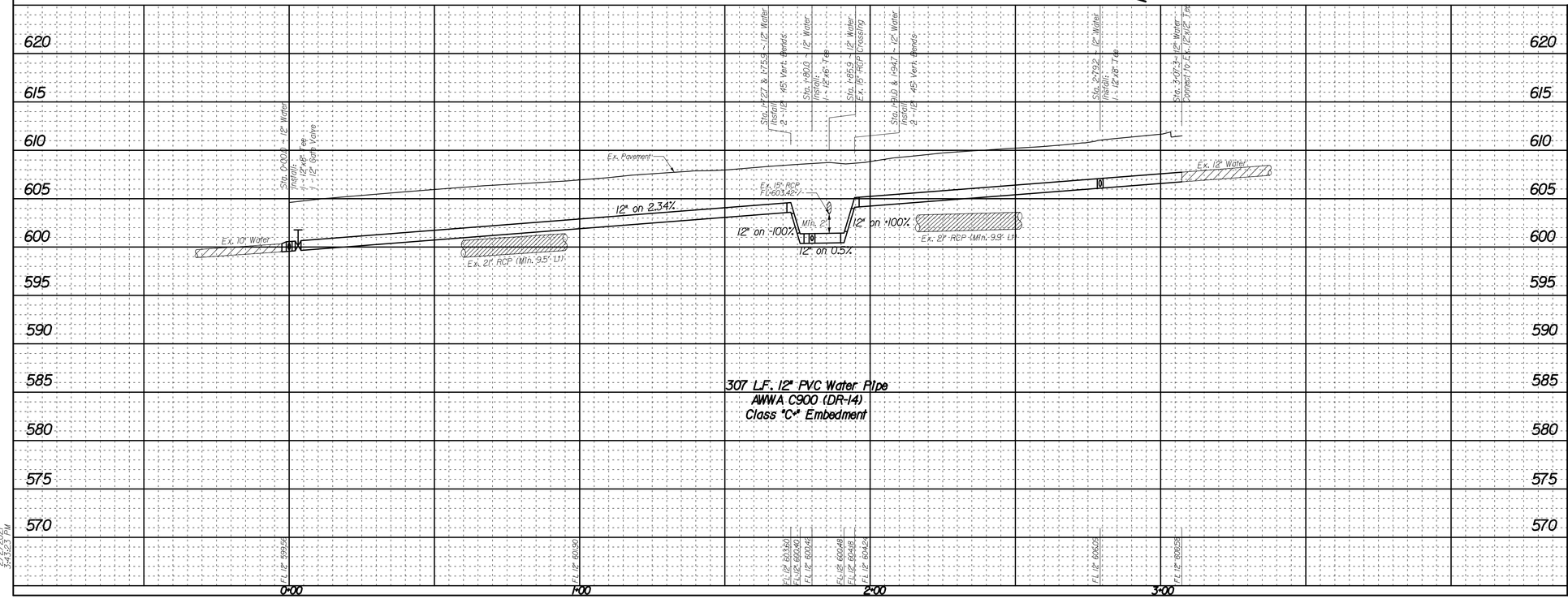



| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

**BENCHMARKS & CONTROL POINTS**

COD BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ANITA STREET
ELEV = 609.21

COD BENCHMARK
A STANDARD WATER DEPARTMENT BENCHMARK SET ON STORM SEWER INLET ON NORTHEAST CORNER OF GREENVILLE AVENUE AND ELLSWORTH AVENUE
ELEV =601.63

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP-2 | 6,990,731.13 | 2,500,420.48 | 605.26 | X-CUT |
| CP-4 | 6,990,844.49 | 2,499,820.23 | 604.936 | X-CUT |

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

REFERENCES
WATER
28-28W
WASTEWATER
28-28S

STATE OF TEXAS
DAVID B. HAWKINS
55371
REGISTERED PROFESSIONAL ENGINEER
01.29.2021

CRIADO
4100 SPRING VALLEY RD., SUITE 1001
DALLAS, TX 75244
TBPE F-10536,
TBPLS F-10073
Firm No. F-4073

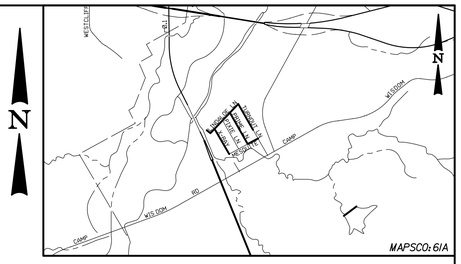
CONTRACT NO. 20-473/474 | PID: 6508

# 12" WATER MAIN
## GREENVILLE AVENUE
FROM NORTH OF ELLSWORTH TO NORTH OF ANITA
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| CRIADO | CRIADO | JAN. 2021 | 411Q | 2001 | 482 |

2/2/2021
3:45:23 PM

# MESQUITE HEIGHTS UNSERVED AREA WATER AND WASTEWATER IMPROVEMENTS



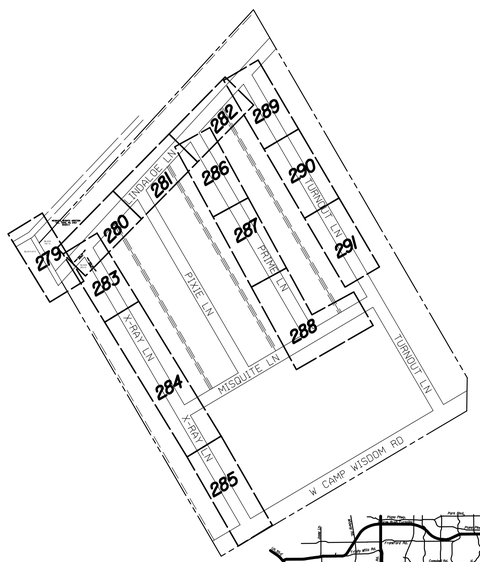

WATER & WASTEWATER SHEET INDEX

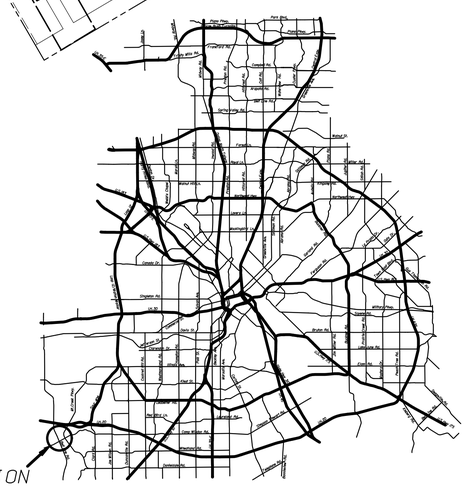
| PID | LOCATION | DESIGN SHEET |
|---|---|---|
| 6663 | In An Easement From The TRA POE To Lindaloe LN., And In Lindaloe Ln. From West End To Turnout Ln. | 411Q-1906 Sht. 279-282 |
| 6664 | In X-Ray Ln., From Lindaloe Ln. To West Camp Wisdom Rd. | 411Q-1906 Sht. 283-285 |
| 6665 | In Prime Ln., From Lindaloe Ln. To Mesquite Ln. | 411Q-1906 Sht. 286-288 |
| 6666 | In Turnout Ln., From Lindaloe Ln. To Mesquite Ln. | 411Q-1906 Sht. 289-291 |
| 6667 | In Mesquite Ln., from Prime Ln. to Turnout Ln. | 411Q-1906 Sht. 288 |

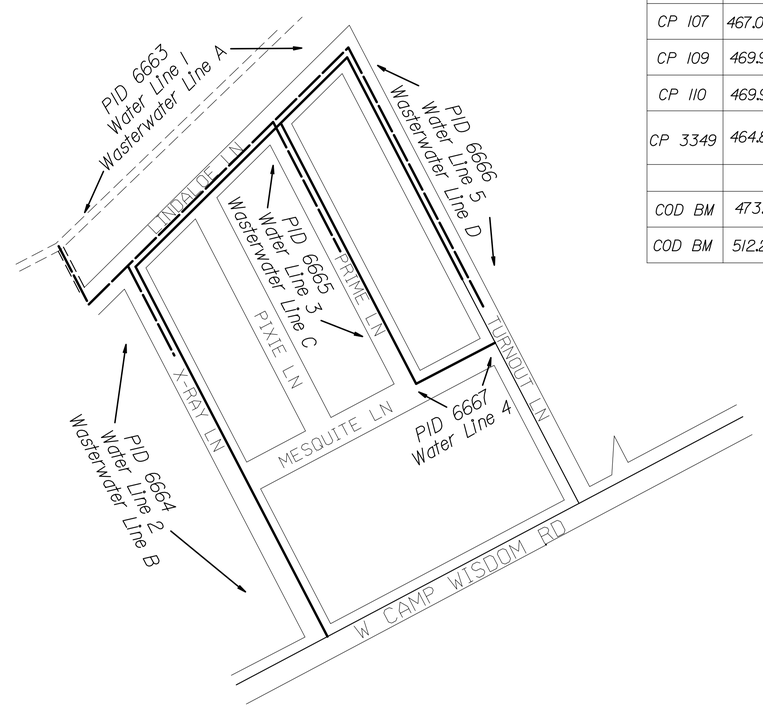
## Dallas Water Utilities
## City Of Dallas, Texas
## Contract No. : 20 - 473/474
## Schedule B
## May, 2021

BENCHMARKS & CONTROL POINTS

| | ELEV. | NORTHING | EASTING | DESCRIPTION |
|---|---|---|---|---|
| CP 1 | 466.555 | 6926828.614 | 2436126.247 | Mag Nail Set In Asphalt At The Centerline Intersection Of X-Ray Ln. And Lindaloe Ln. |
| CP 2 | 466.362 | 6926701.299 | 2436016.69 | Mag Nail Set In Asphalt At The Southside Of Lindaloe Ln. +/-18 Feet Northeast Of A Guardrail Located At The Southwest End Of Lindaloe Ln. |
| CP 100 | 467.242 | 6927685.023 | 2436925.206 | Mag Nail Set In Asphalt At The Centerline Intersection Of Turnout Ln. And Lindaloe Ln. |
| CP 101 | 471.677 | 6927187.177 | 2437233.378 | Mag Nail Set In Asphalt In Front Of Hse #5344 Turnout Ln. and +/- 32 Feet Northeast Of A Fire Hydrant. |
| CP 102 | 476.581 | 6926568.942 | 2437561.343 | Mag Nail Set In Asphalt At The Northwest Corner Of Mesquite Dr. And Turnout Ln. +/- 18 Feet Northeast Of A Fire Hydrant. |
| CP 103 | 474.839 | 6926375.003 | 2437270.051 | Mag Nail Set In Asphalt At The Southside Mesquite Dr. And The Centerline Projection Of Prime Ln. |
| CP 104 | 470.737 | 6926867.982 | 2436989.896 | Mag Nail Set In Asphalt At The East Side Of Prime Ln. In Front Of Hse #5344 Prime Ln., +/- 557 Feet From The Centerline Of Mesquite Dr. |
| CP 105 | 467.045 | 6927303.809 | 2436730.735 | Mag Nail Set In Asphalt In Front Of Hse #5308 Prime Ln. And +/- 130 Feet From The Centerline Of Lindaloe Ln. |
| CP 106 | 466.688 | 6927420.798 | 2436653.685 | Mag Nail Set In Asphalt At The Northside Of Lindaloe Ln. +/-10 Feet Northeast Of The Centerline Of Prime Ln. |
| CP 107 | 467.039 | 6927138.853 | 2436395.935 | Mag Nail Set In Asphalt At The Northside Of Lindaloe Ln. +/-10 Feet Northeast Of The Centerline Of Homer St. |
| CP 109 | 469.976 | 6926004.096 | 2436623.791 | Mag Nail Set In Asphalt In Front Of Address #5401 X-Ray Ln. And +/- 38 Feet South Of A Light Pole. |
| CP 110 | 469.913 | 6926456.877 | 2436357.773 | Mag Nail Set In Asphalt At The East Side Of X-ray Ln. And +/- 438 From The Centerline Of Lindaloe Ln. |
| CP 3349 | 464.864 | 6926811.228 | 2435902.202 | 5/8 Inch Capped Iron Rod Set In Natural Ground. +/- 152 Feet Northwest From A Powerpole Located At The Southwest Terminus Of Lindaloe Ln. |
| | | DESCRIPTION | | |
| COD BM | 473.30 | Square Cut On Southwest Corner Of Concrete Bridge On F.M.1382 Over Mountain Creek And 0.3 Mile North Of Centerline Of Camp Wisdom Rd. | | |
| COD BM | 512.23 | Std.WDFM In Center Of South Concrete Headwall To A 30 X 92 Concrete Pipe Culvert Under Camp Wisdom Rd. And 0.4 Mile East Of Mountain Creek Pkwy. | | |




STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

411Q - 1906 Sh. 277

# GENERAL LEGENDS

## GENERAL

- BM — Benchmark
- CP — Control Point
- IPF — Iron Pin Found
- IPS — 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
- BH — Bore Hole

## TOPOGRAPHIC FEATURES

- Tree
- Brush, Shrub, Wood
- Swamp
- Mail Box
- Bollards
- ICV — 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
- Exist.Concrete
- Prop.Pavement

## STORM DRAINS

- Exist.Storm Drain
- S — Exist.Storm Manhole
- Exist.Storm Inlet
- Prop.Storm Drain
- S — Prop.Storm Manhole
- Prop.Storm Inlet

## UTILITIES

- G — Exist.Gas Line
- G — Exist.Gas Manhole
- UE — Exist.Underground Electric Line
- OE — Exist.Overhead Electric Line
- ET — Exist.Electric Pad Mounted Transformer
- Exist.Electric Power Pole
- Exist.Electric Pole Anchor
- E — Exist.Electric Utility Manhole
- EV — Exist.Electric Vault
- T — Exist.Telephone Line
- T — Exist.Telephone Utility Manhole
- TP — Exist.Telephone Pedestal
- FO — Exist.Fiber Optic Line
- F — Exist.Fiber Optic Manhole
- CATV — Exist.Cable TV Line
- C — Exist.Cable TV Manhole

## WATER MAINS & APPURTENANCES

- 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
- FH — 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
- AV — Exist.Air Valve
- TS — Exist.Cathodic Test Station
- Prop.Gate Valve
- Prop.High/Low Valve
- Prop.Check Valve
- Prop.Flush Point
- TS, AV — Prop.Air Valve
- Prop.Cathodic Test Station

## WASTEWATER MAINS & APPURTENANCES

- Exist.6" to 27" Wastewater Main
- Exist.30" or Larger Wastewater Main
- Prop.6" to 27" or Larger Wastewater Main
- Prop.30" or Larger Wastewater Main
- Exist.Wastewater Manhole
- Exist.Wastewater Access Device
- CO — Exist.Wastewater Cleanout
- Prop.Wastewater Manhole
- Prop.Wastewater Access Device
- Prop.Wastewater Cleanout
- Remove & Replace Exist.Manhole

## GENERAL

1. All work shall be done in accordance with the North Central Texas Council Of Governments (NCTCOG) Standard Specifications for Public Works Construction 4 and City of Dallas Addendum (October,2004) to these specifications.
2. Reference to standard drawings shall mean those shown in the DWU Standard Drawings for Water & Wastewater Construction Latest Edition (October,2004).
3. 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.
4. 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 begining construction (including ordering pre-cast manholes and concrete pipe if applicable. NO SEPARATE PAY ITEM.
5. 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.
6. The Contractor shall preserve and protect all existing utilities at all times during construction. Any damage to utilities resulting from the Contractor's operation shall be restored at his expense.
7. The Contractor shall support telephone conduits,storm drains,water and wastewater mains when going under said utilities. NO SEPARATE PAY ITEM.
8. Power poles may have to be braced at the Contractor's expense.
9. 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

1. 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.
2. The diversion of pedestrians and vehicles during the progress of the work shall be in a manner satisfactory to the City of Dallas Inspector.
3. The Contractor shall coordinate all traffic variances with Traffic Safety Coordinators at 670-5896 or 683-5189, City Of Dallas Public Works & Transportation.
4. Two - way traffic shall be maintained at all times and flagmen should be used to maintain two-way traffic as necessay.
5. All barricades,warning signs and traffic control devices shall conform to the City Of Dallas standards. NO SEPARATE PAY ITEM.
6. When closing side streets,two working days notification is required for Fire,Police,Streets and Sanitation Departments. All street closures must be coordinated through the City of Dallas Inspector and the City Streets Department.
7. Contractor shall maintain access to private driveways at all times during construction. NO SEPARATE PAY ITEM.
8. Vehicular ingress and egress (entrance and exit) to a business property shall be maintained at all time. If not,specific signs along with business name and direction arrow(s) shall be used for any temporary access locations. Additional signs may be necessary if there is a detour.NO SEPARATE PAY ITEM.

## TREES AND LANDSCAPING

1. 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 that are not itemized in the TREE REMOVAL TABLE shall be replaced by the contractor at his expense.
2. Prior to beginning construction the Contractor shall meet on site with the City Forester and the City Inspector to identify and mark all trees to be removed. The Contractor may remove any tree itemized in the TREE REMOVAL TABLE.

## TREE REMOVAL TABLE

| | SIZE & TYPE | NORTHING | EASTING | SHEET & LOCATION |
|---|---|---|---|---|
| 1 | 20" Cedar | 6926874.4 | 2435871.4 | Sh.279- In TRA Easement |
| 2 | 24" Cedarelm | 6926852.3 | 2435883.2 | Sh.279- In TRA Easement |
| 3 | 6" Hackberry | 6926822.4 | 2435896.0 | Sh.279- In DWU WW Easement |
| 4 | 6" Hackberry | 6926819.1 | 2435899.4 | Sh.279- In DWU WW Easement |
| 5 | 6" Hackberry | 6926823.0 | 2435904.2 | Sh.279- In DWU WW Easement |
| 6 | 6" Cedarelm | 6926820.1 | 2435903.9 | Sh.279- In DWU WW Easement |
| 7 | 6" Hackberry | 6926816.9 | 2435913.7 | Sh.279- In DWU WW Easement |
| 8 | 6" Hackberry | 6926815.3 | 2435913.7 | Sh.279- In DWU WW Easement |
| 9 | 6" Hackberry | 6926816.3 | 2435918.7 | Sh.279- In DWU WW Easement |
| 10 | 6" Cedar | 6926812.9 | 2435913.6 | Sh.279- In DWU WW Easement |
| 11 | 6" Hackberry | 6926810.6 | 2435908.3 | Sh.279- In DWU WW Easement |
| 12 | 6" Cedarelm | 6926805.8 | 2435923.4 | Sh.279- In DWU WW Easement |
| 13 | 6" Cedarelm | 6926796.3 | 2435921.3 | Sh.279- In DWU WW Easement |
| 14 | 6" Cedar | 6926793.6 | 2435921.7 | Sh.279- In DWU WW Easement |
| 15 | 12" Cedarelm | 6926791.2 | 2435925.8 | Sh.279- In DWU WW Easement |
| 16 | 8" Cedarelm | 6926770.2 | 2435941.3 | Sh.279- In DWU WW Easement |
| 17 | 8" Cedarelm | 6926769.7 | 2435944.4 | Sh.279- In DWU WW Easement |
| 18 | 10" Hackberry | 6926749.0 | 2435945.0 | Sh.279- In DWU WW Easement |
| 19 | 8" CLSTD Hackberry | 6926734.5 | 2435960.2 | Sh.279- In DWU WW Easement |
| 20 | 8" Hackberry | 6926727.2 | 2435968.6 | Sh.279- In DWU WW Easement |
| 21 | 10" Cedarelm | 6926717.4 | 2435966.9 | Sh.279- In DWU WW Easement |
| 22 | 6" Cedarelm | 6926709.6 | 2435965.0 | Sh.279- In DWU WW Easement |
| 23 | 8" Cedarelm | 6926708.5 | 2435972.6 | Sh.279- In DWU WW Easement |
| 24 | 10" Hackberry | 6926690.5 | 2435991.6 | Sh.279- In DWU WW Easement |
| 25 | 6" Cedar | 6926684.2 | 2435996.8 | Sh.279- In DWU WW Easement |
| 26 | 10" Hackberry | 6926662.5 | 2435995.0 | Sh.279- In DWU WW Easement |
| 27 | 10" Triple Hackberry | 6927172.3 | 2436469.5 | Sh.281- Across 8427 Lindaloe Ln. |
| 28 | 15" Cedarelm | 6927234.3 | 2436531.1 | Sh.281- Across 8415 Lindaloe Ln. |
| 29 | 6" Cedarelm | 6925912.0 | 2436694.4 | Sh.284- 8464 Mesquite Ln. |
| 30 | 8" Cedarelm | 6925829.2 | 2436747.0 | Sh.285- 5422 X-Ray Ln. |
| 31 | 8" Cedarelm | 6925827.7 | 2436745.4 | Sh.285- 5422 X-Ray Ln. |
| 32 | 8" Cedarelm | 2436755.1 | 6925827.5 | Sh.285- 5422 X-Ray Ln. |
| 33 | 6" Hackberry | 6925784.0 | 2436772.9 | Sh.285- 5422 X-Ray Ln. |
| 34 | 16" Hackberry | 6925772.8 | 2436786.2 | Sh.285- 5422 X-Ray Ln. |
| 35 | 18" Hackberry | 6925638.8 | 2436848.7 | Sh.285- 5434 X-Ray Ln. |
| 36 | 6" Hackberry | 6926915.0 | 2436931.4 | Sh.287- 5341 Prime Ln. |
| 37 | 36" Willow | 6926513.6 | 2437525.6 | Sh.288- 5403 Turnout Ln. |
| 38 | 6" Willow | 6926491.0 | 2437486.1 | Sh.288- 5403 Turnout Ln. |
| 39 | 26" Cedar | 6926412.2 | 2437274.4 | Sh.288- 5386 Prime Ln. |

## WATER MAIN AND APPURTENANCES

1. All 6",8" and 12" water mains shall be PVC C900 (DR-14) water pipe,with Class "C" embedment,except as noted.
2. 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.
3. Compact fittings are not authorized for this project. All ductile iron pipe,fittings and fire hydrant bases shall be poly-wrapped.
4. 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.
5. 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.
6. 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.
7. The Contractor will ensure that fire hydrants are accessible to fire trucks at all times. NO SEPARATE PAY ITEM.
8. The Contractor shall sequence his construction such that no more than one fire hydrant is out of service at any given time.
9. 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.
10. 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.
11. Abandon all water valves on existing mains being killed as per DWU Standard Drawing *219. NO SEPARATE PAY ITEM.
12. The Contractor shall coordinate all water main tie-ins with the City of Dallas Inspector.
13. 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.
14. Water services greater than 30 feet shall be a minimum of one (1) inch in diameter.

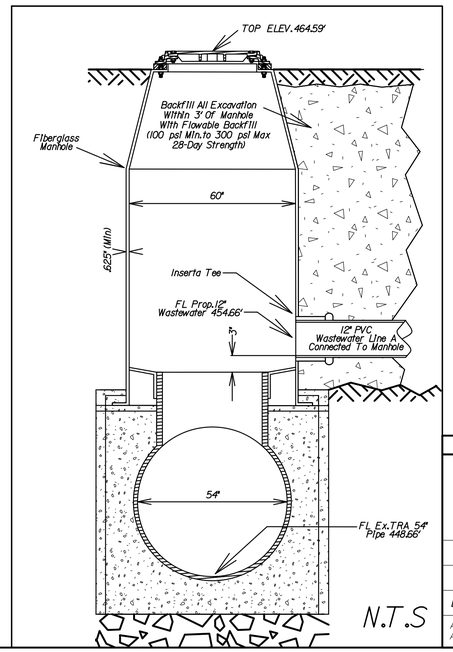
## PAVEMENT REPLACEMENT

1. 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.
2. 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.

## WASTEWATER MAIN AND APPURTENANCES

1. The Contractor shall maintain existing wastewater flow at all times. NO SEPARATE PAY ITEM.
2. Abandon all manholes on abandoned wastewater mains.
3. The Contractor shall verify the location of all wasterwater laterals and construct new laterals from the wastewater main to the property line with cleanouts and reconnect to the existing laterals. Dye testing maybe required at no additional cost to the owner.
4. The backfill around manholes located in existing or new pavement shall be flowable backfill as per NCTCOG Specification Item 6.2.10(G). NO SEPARATE PAY ITEM.

## DETAIL FOR CONNECTION TO TRA MANHOLE 9460M




STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

CONTRACT NO.20-473/474

WATER & WASTEWATER IMPROVMENTS AT VARIOUS LOCATIONS

DALLAS WATER UTILITIES
CITY OF DALLAS,TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| ALBERT AGUILAR | ALBERT AGUILAR | MAY 2021 | 411Q | 1906 | 278 |

- TREES TO BE REMOVED (SEE TREE REMOVAL TABLE ON SHEET 278)

CONSTRUCT 12" WW

MATCH MARK 4+00 LINE A
See Sheet 280

LINDALOE LN

0+00 8" W.W. Line A
N:6926667.2
E:2435996.0
Connect To TRA MH 9460M
With An Insertatee Connection
(See Detail Sh.278)

24 LF Of Std.Creek Crossing
With Stabilized Bacfill & Rip Rap
As Per DWU Std.Dwg.120

PROP. 25' DWU
WASTEWATER EASEMENT

LOT 1
8469 LINDALOE LN
ALLIED SUPPLY CHAIN
INST #20200025605I

Line A
12" WW
Sta 0+00
Sta 1+00
Sta 2+00
Sta 3+00

2+70 8" W.W. Line A
N:6926667.3
E:2435996.1
Construct:
1-4' Dia. Pressure Type MH
As Per DWU Std.Dwg.304 & 313

30' TRA SS Easement
Ex. TRA 54" Wastewater
Esmt Mustang Creek Interceptor
P.B.96,100.63 S.I.9
Abandoned TRA 3.5" Wastewater
Line Under In 36" Hdpe

TEXAS UTILITIES ELEC.CO.
VOL.1992, PG.1
D.R.D.C.T.

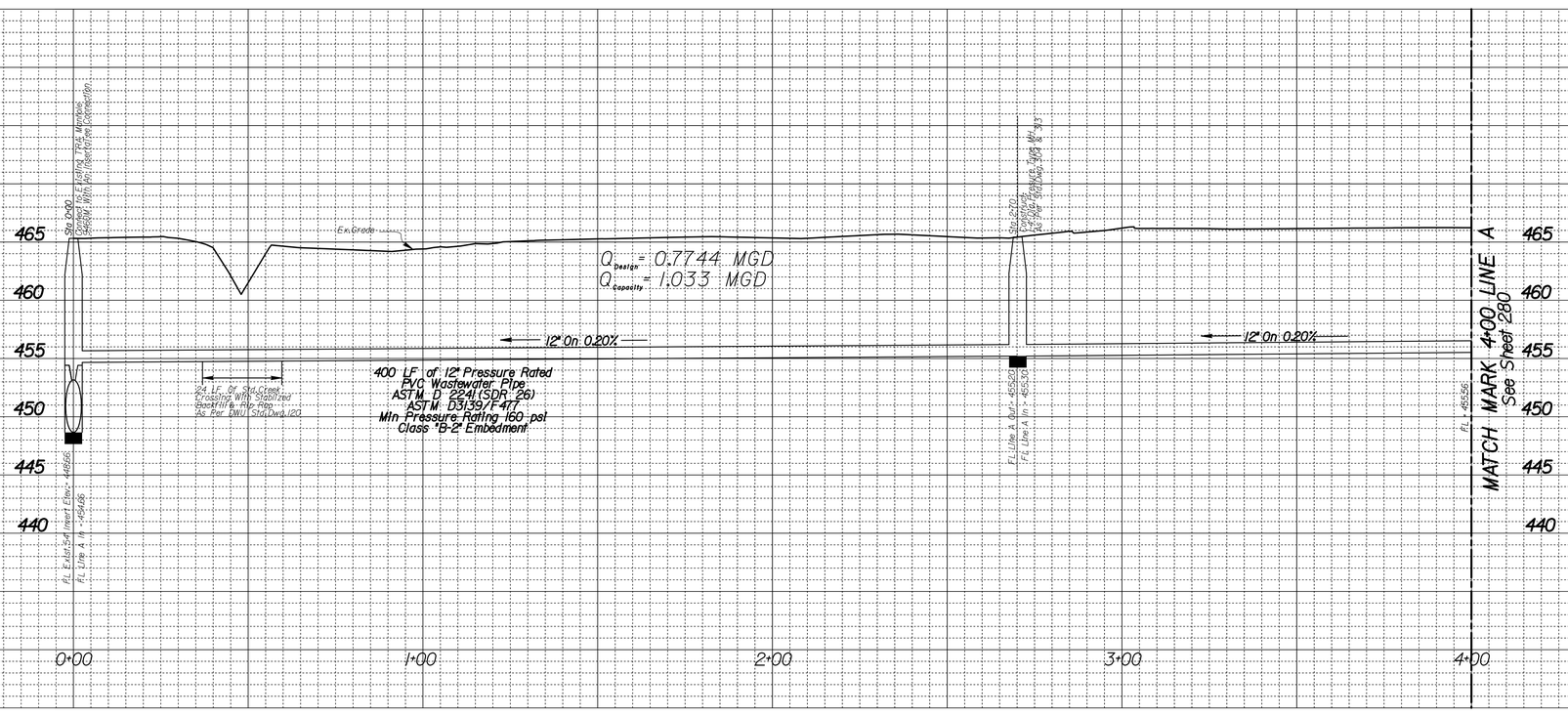
CAUTION ~ TELEPHONE 1
Underground Telephone Cables In Area
Contact S.B.C. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

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

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

CAUTION ~ GAS 1
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: DWUMROoperations@atlasscityhall.com




| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
WATER
N/A
WASTEWATER
N/A

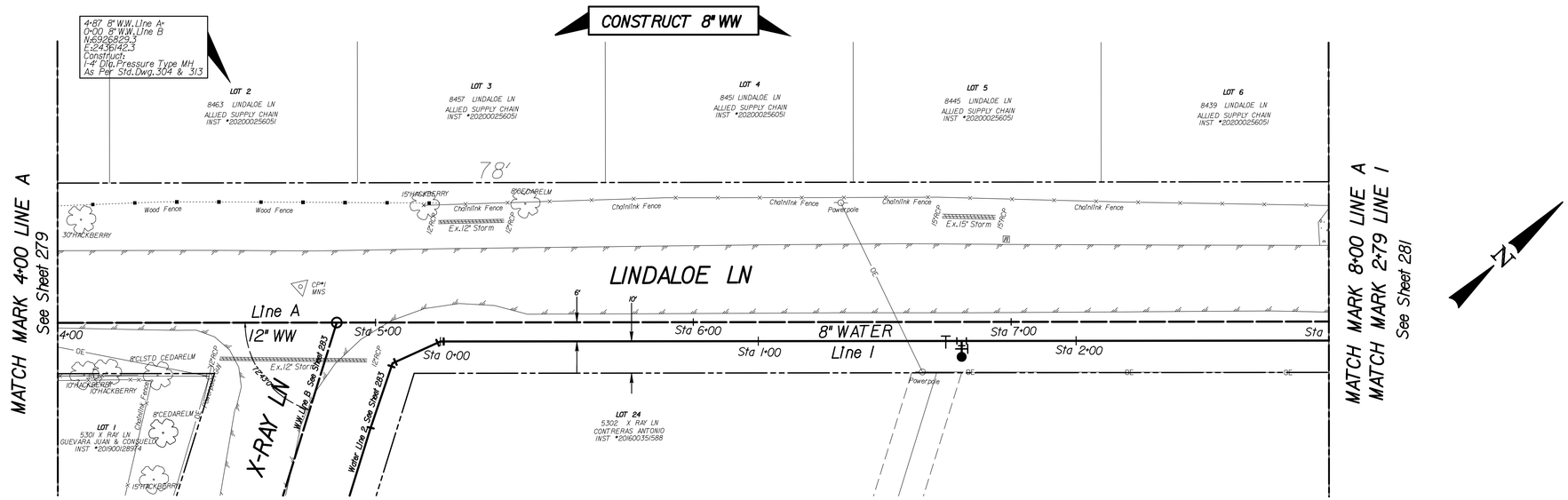
STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED PROFESSIONAL ENGINEER

Dallas Water Utilities

CONTRACT NO. 20-473/474 | PID: 6663-6667

# 12" WASTEWATER
## LINDALOE LN.
## FROM TRA EASEMENT TO TURNOUT LN.
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| Ricardo R. | Ricardo R. | April 2021 | 411Q | 1906 | 279 |




CAUTION ~ TELEPHONE 1
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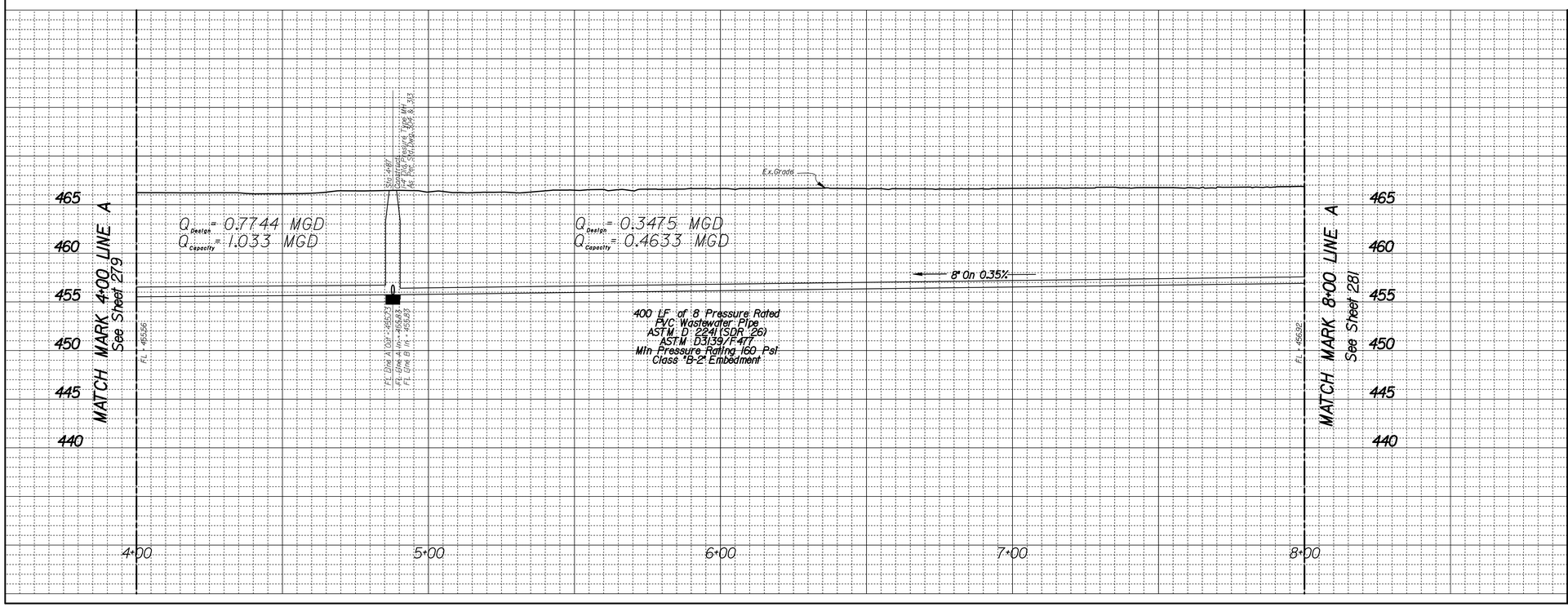
Contact TXU. Two Working
Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ GAS 1
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: DWUMROadvisory@atlassolutions.com




| REVISIONS | | | |
|---|---|---|---|
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| 1 | | | |
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BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
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N/A
WASTEWATER
N/A

STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

Dallas Water Utilities

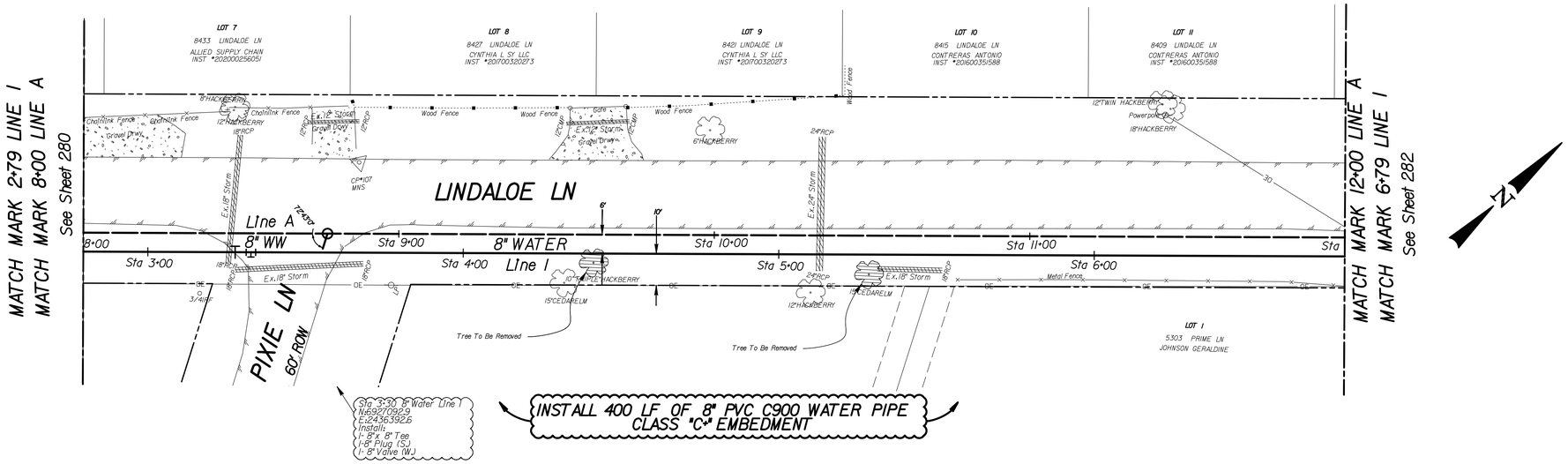
CONTRACT NO. 20-473/474 | PID: 6663-6667

# 12", 8" WASTEWATER & 8" WATER
## LINDALOE LN.
## FROM TRA EASEMENT TO TURNOUT LN.
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| Ricardo R. | Ricardo R. | April 2021 | 411Q | 1906 | 280 |

8+77 8" W.W. Line A
N:6926827.4
E:2436143.5
Construct:
1-4' Dia. Pressure Type MH
With 5' Stub Out & Plug
As Per Std. Dwg. 304 & 313

CONSTRUCT 8" WW




Sta 3+30 8" Water Line
N:6927092.9
E:2436392.6
Install:
1- 8"x 8" Tee
1-8" Plug (S.)
1- 8" Valve (W.)

INSTALL 400 LF OF 8" PVC C900 WATER PIPE
CLASS "C" EMBEDMENT

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

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Underground Electrical Cables In Area
Contact TXU Two Working
Days Prior To Construction.
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Underground Gas Main In Area
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Days Prior To Construction.
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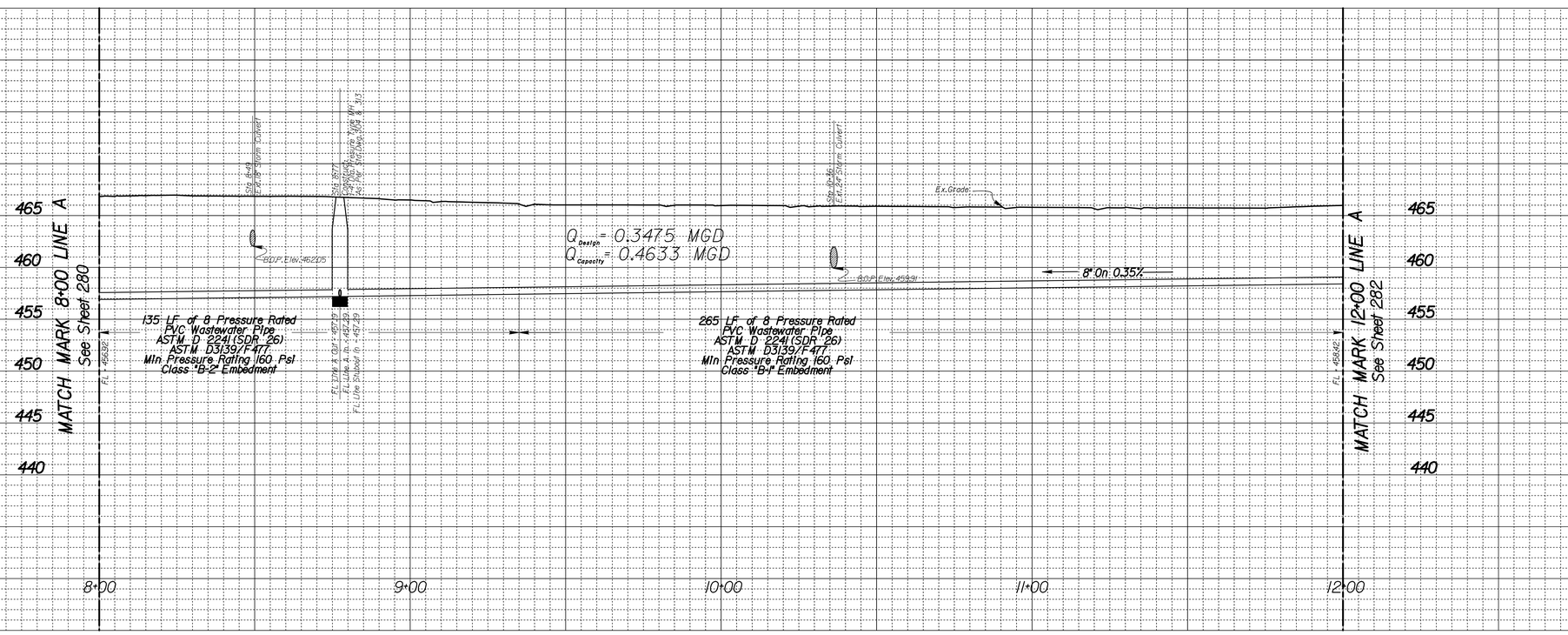


| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
WATER
N/A
WASTEWATER
N/A

STATE OF TEXAS
RICHARD JAMES LUCAS
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LICENSED
PROFESSIONAL ENGINEER

Dallas Water Utilities

CONTRACT NO. 20-473/474 | PID: 6663-6667

# 8" WASTEWATER & 8" WATER

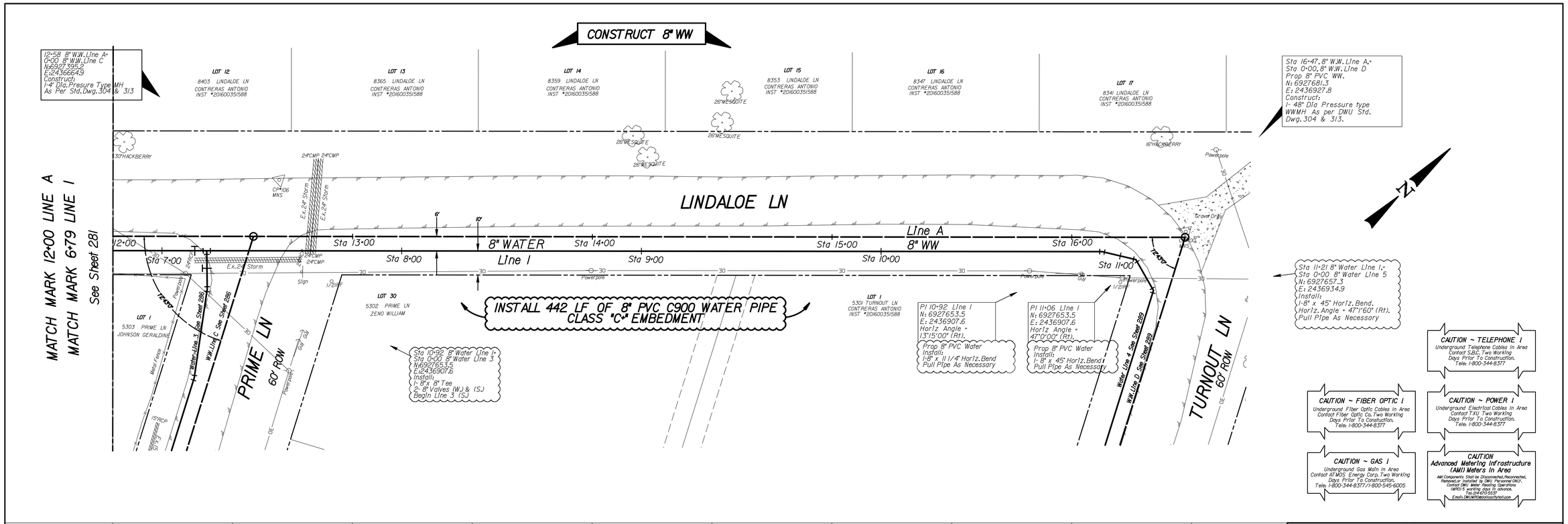
LINDALOE LN.

FROM TRA EASEMENT TO TURNOUT LN.

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| Ricardo R. | Ricardo R. | April 2021 | 411Q | 1906 | 281 |




| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
WATER
N/A
WASTEWATER
N/A

STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

Dallas Water Utilities

CONTRACT NO. 20-473/474 | PID: 6663-6667

# 8" WASTEWATER & 8" WATER

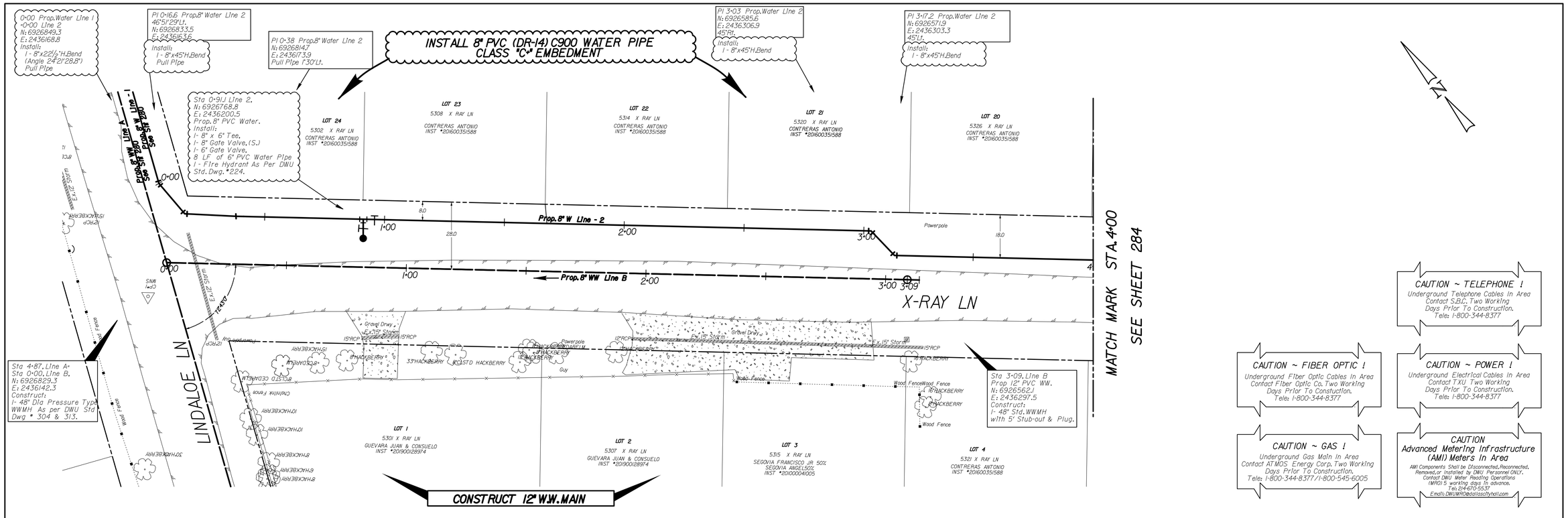
LINDALOE LN.

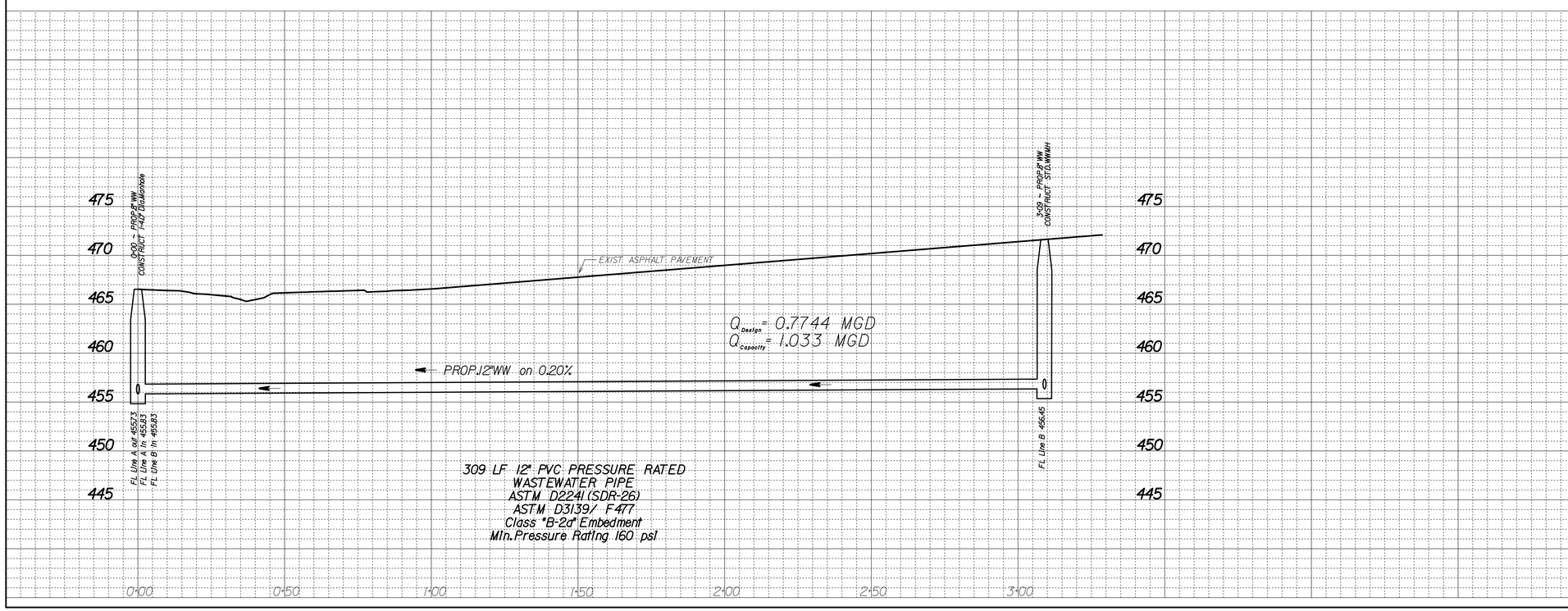
FROM TRA EASEMENT TO TURNOUT LN.

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| Ricardo R. | Ricardo R. | April 2021 | 411Q | 1906 | 282 |




| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
WATER
N/A
WASTEWATER
N/A

STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

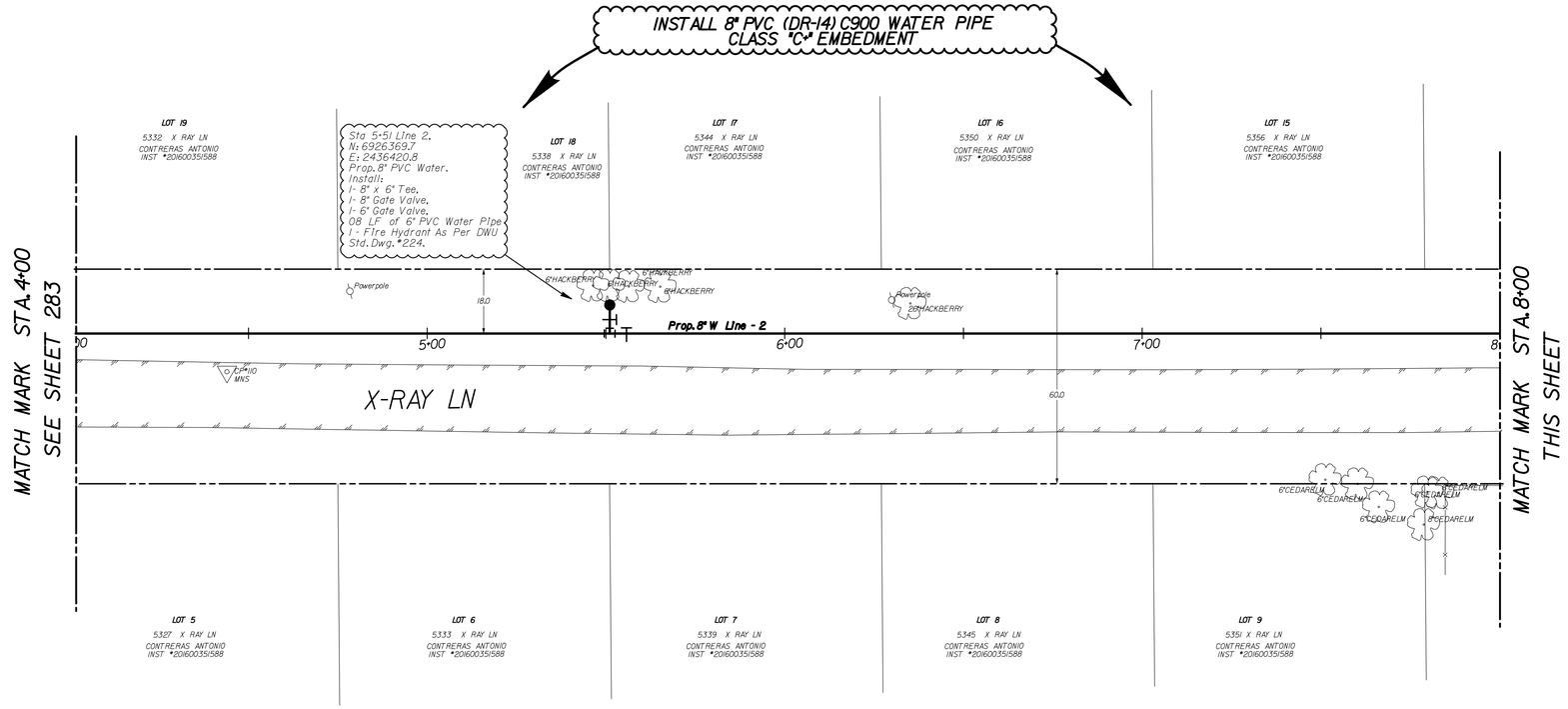
Dallas Water Utilities

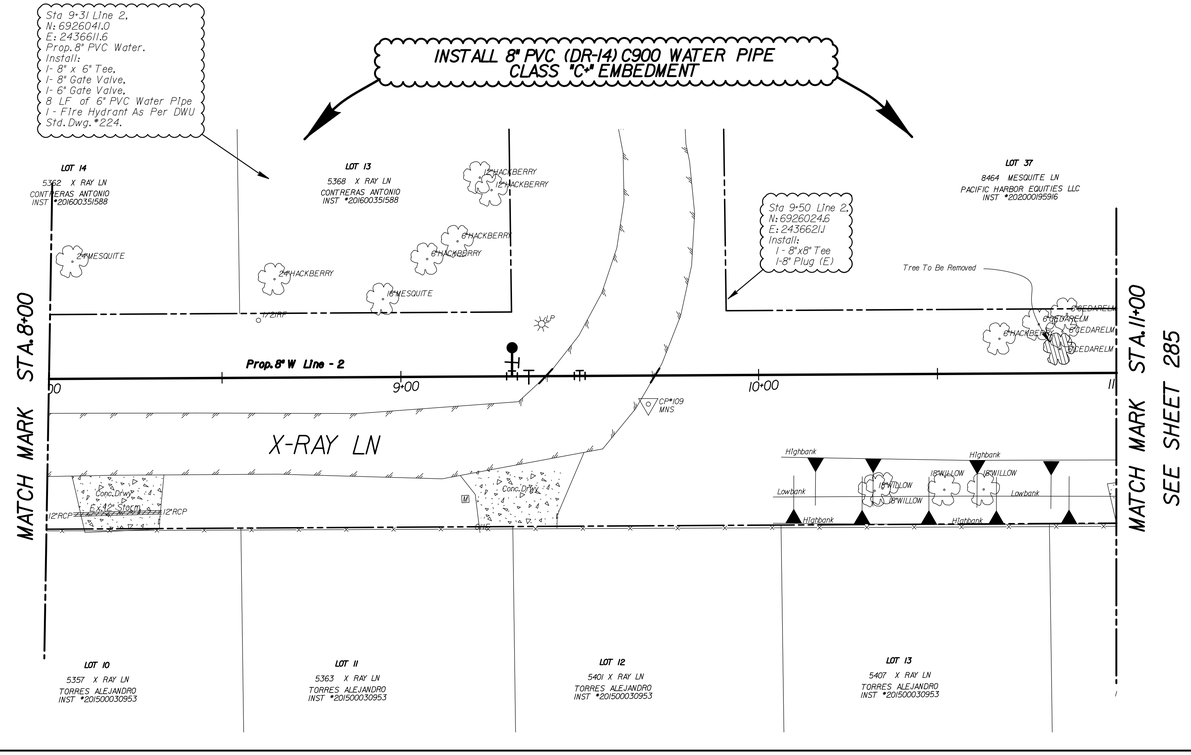
CONTRACT NO. 20-473/474 | PID: 6664

# PROPOSED 8" WATER & 12" WASTEWATER

X-ray Lane
W.CAMP WISDOM TO LINDALOE LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| AE | AE | APRIL 2021 | 411Q | 1906 | 283 |




**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.
Tele: 214-670-5537
Email: DWUMRO@dallascityhall.com

| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
WATER
N/A
WASTEWATER
N/A

STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

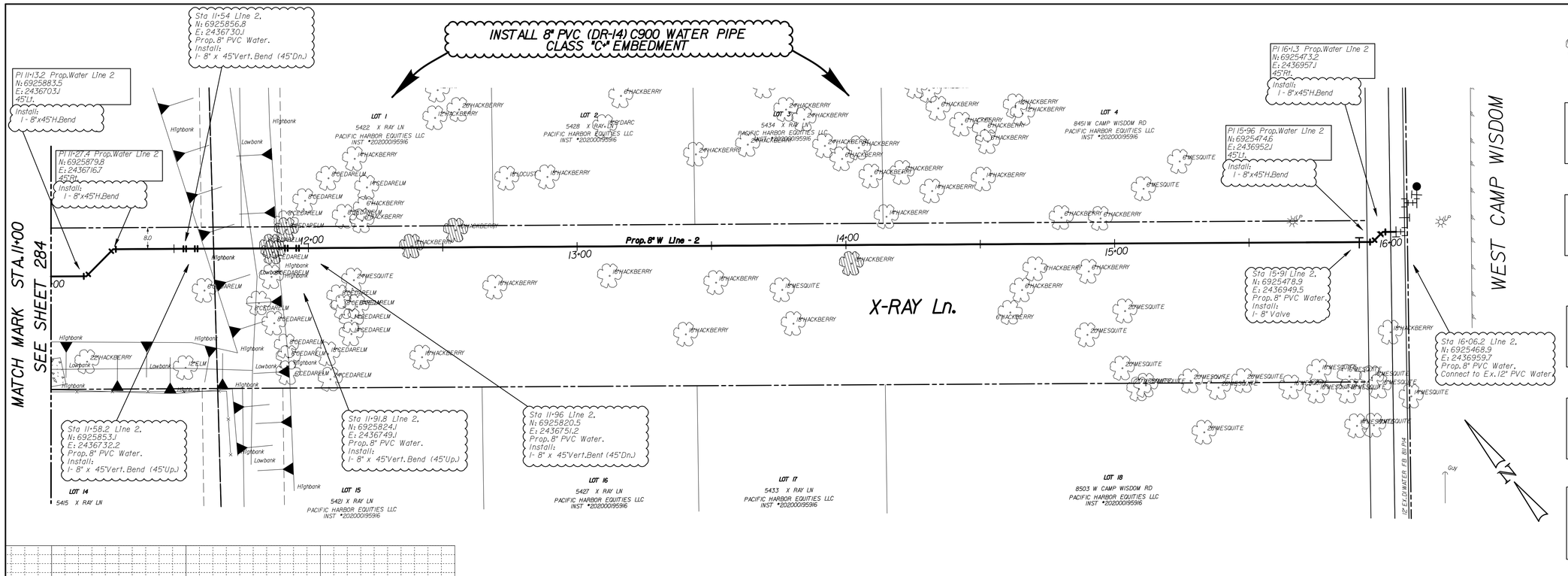
Dallas Water Utilities

CONTRACT NO. 20-473/474 | PID: 6664

# PROPOSED 8" WATER & 12" WASTEWATER

X-ray Lane
W. CAMP WISDOM TO LINDALOE LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| AE | AE | APRIL 2021 | 411Q | 1906 | 284 |




REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
WATER
411Q-1906 Sh.58
WASTEWATER
N/A

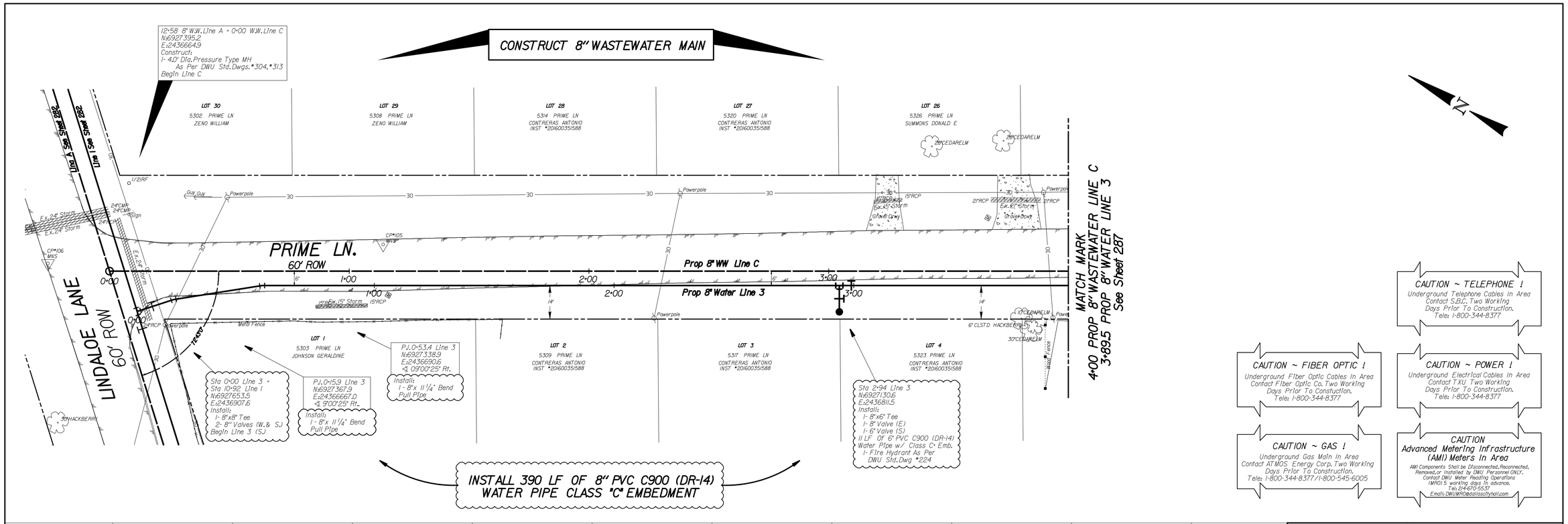
STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

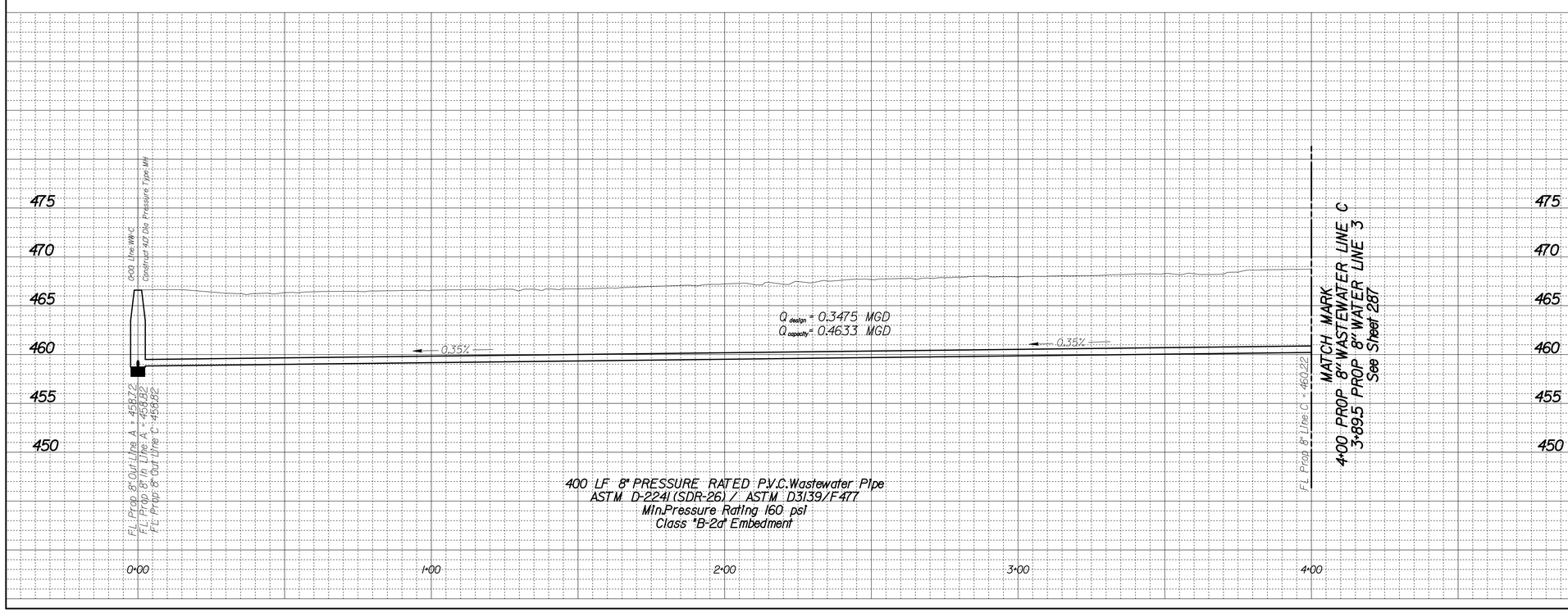
Dallas Water Utilities

CONTRACT NO. 20-473/474 | PID: 6664

PROPOSED 8" WATER & 12" WASTEWATER
X-ray Lane
W.CAMP WISDOM TO LINDALOE LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| AE | AE | APRIL 2021 | 411Q | 1906 | 285 |




REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
WATER
N/A
WASTEWATER
N/A

STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

Dallas Water Utilities

CONTRACT NO. 20-473/474 | PID: 6665

# 8" Water and 8" Wastewater

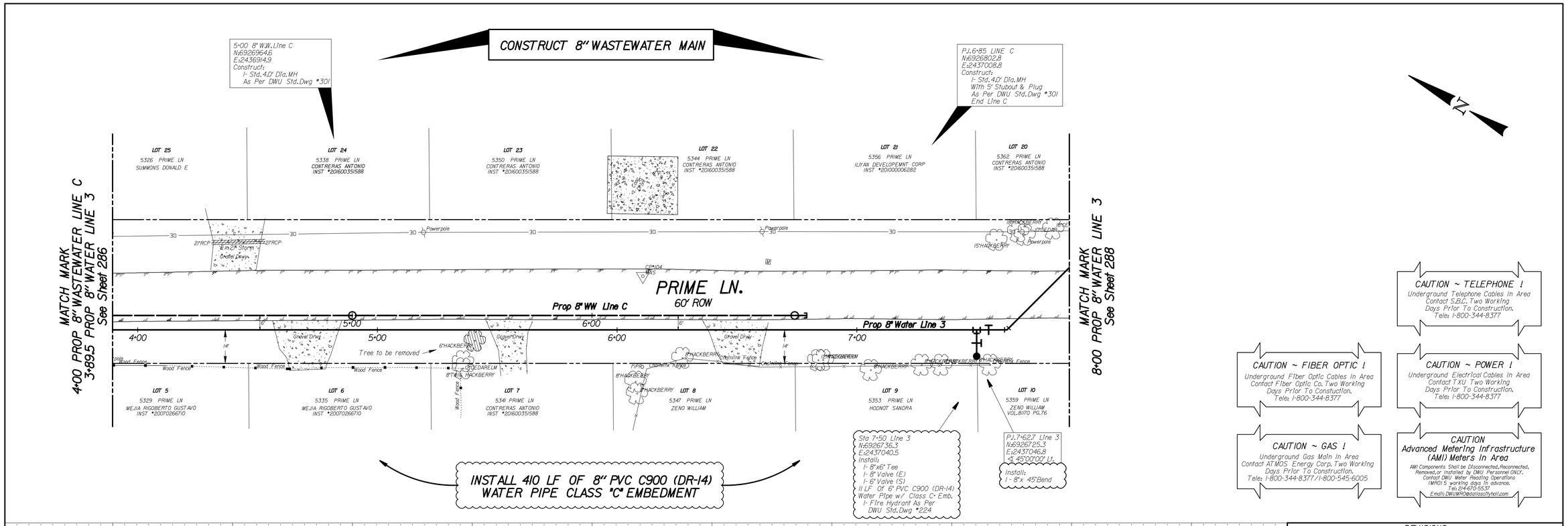
PRIME LN.

LINDALOE LN. TO TURNOUT LN.

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| KC | KC | MAY 2021 | 411Q | 1906 | 286 |




| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
WATER
N/A
WASTEWATER
N/A

STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

Dallas Water Utilities

CONTRACT NO. 20-473/474 | PID: 6665

# 8" Water and 8" Wastewater

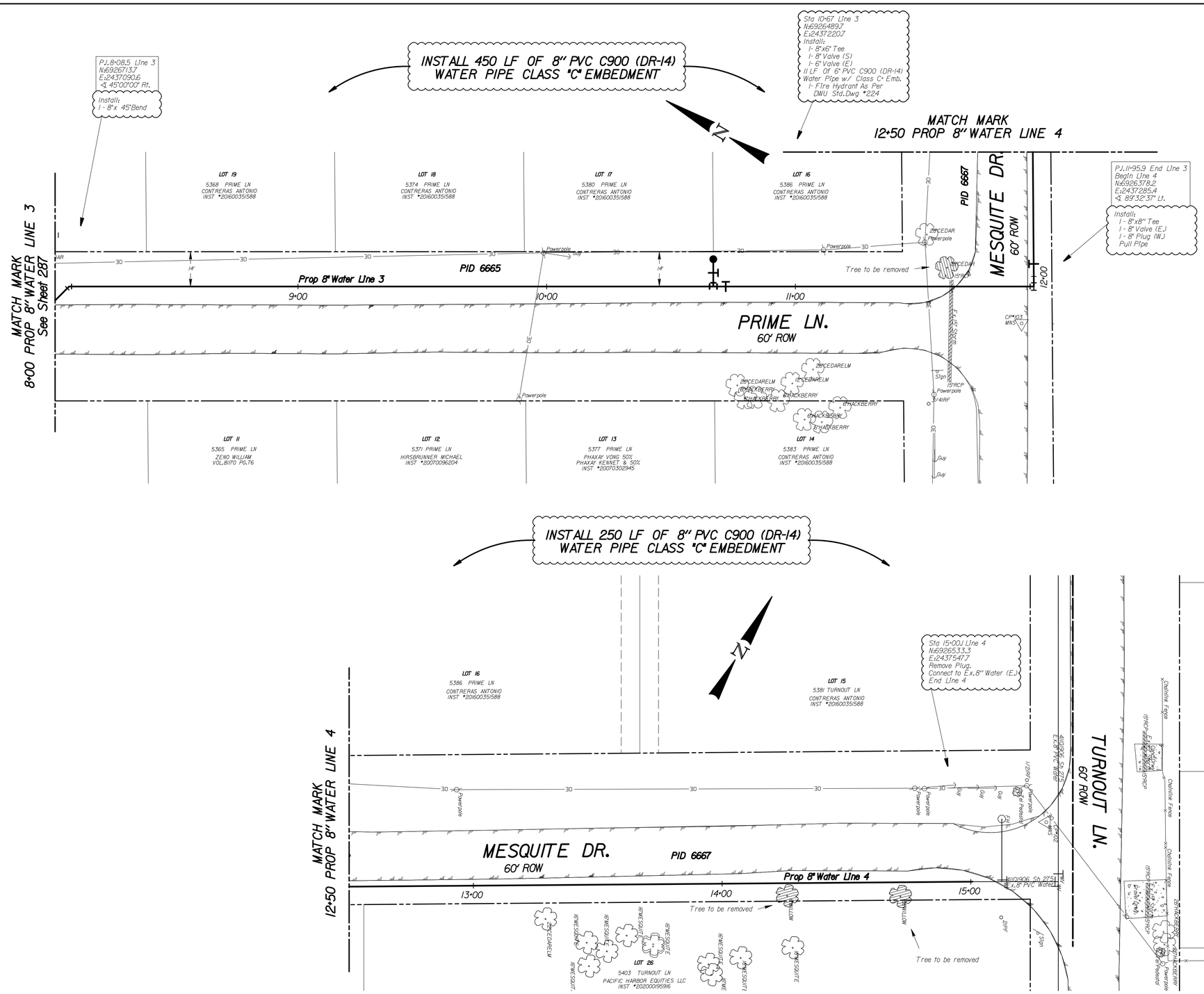
PRIME LN.

LINDALOE LN. TO TURNOUT LN.

DALLAS WATER UTILITIES

CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| KC | KC | MAY 2021 | 411Q | 1906 | 287 |




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.
Tele: 214-670-5537
Email: DWUMRO@dallascityhall.com

| REVISIONS | | | |
|---|---|---|---|
| REV NO. | DATE | DESCRIPTION | BY |
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

See Sheet 277 For Control Points And Benchmarks

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

REFERENCES
WATER
N/A
WASTEWATER
N/A

STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

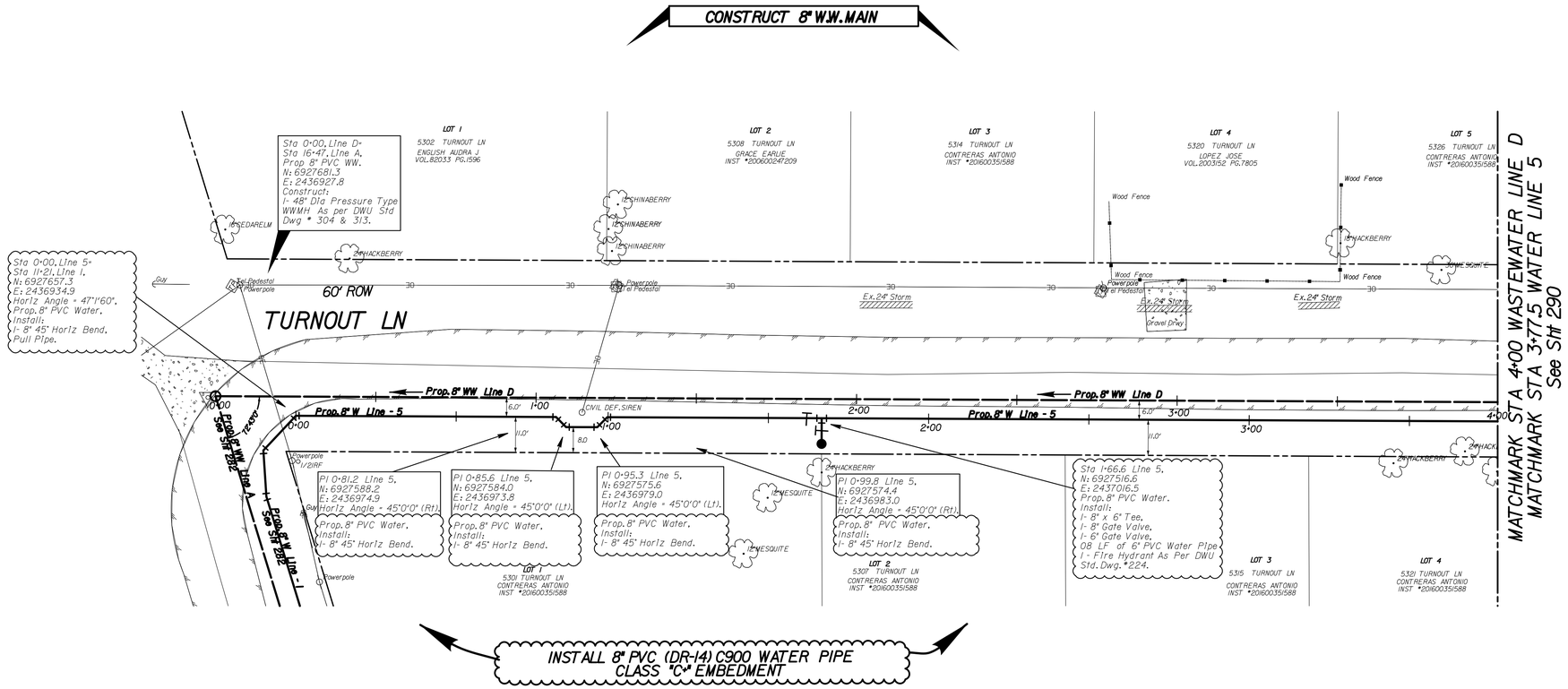
Dallas Water Utilities

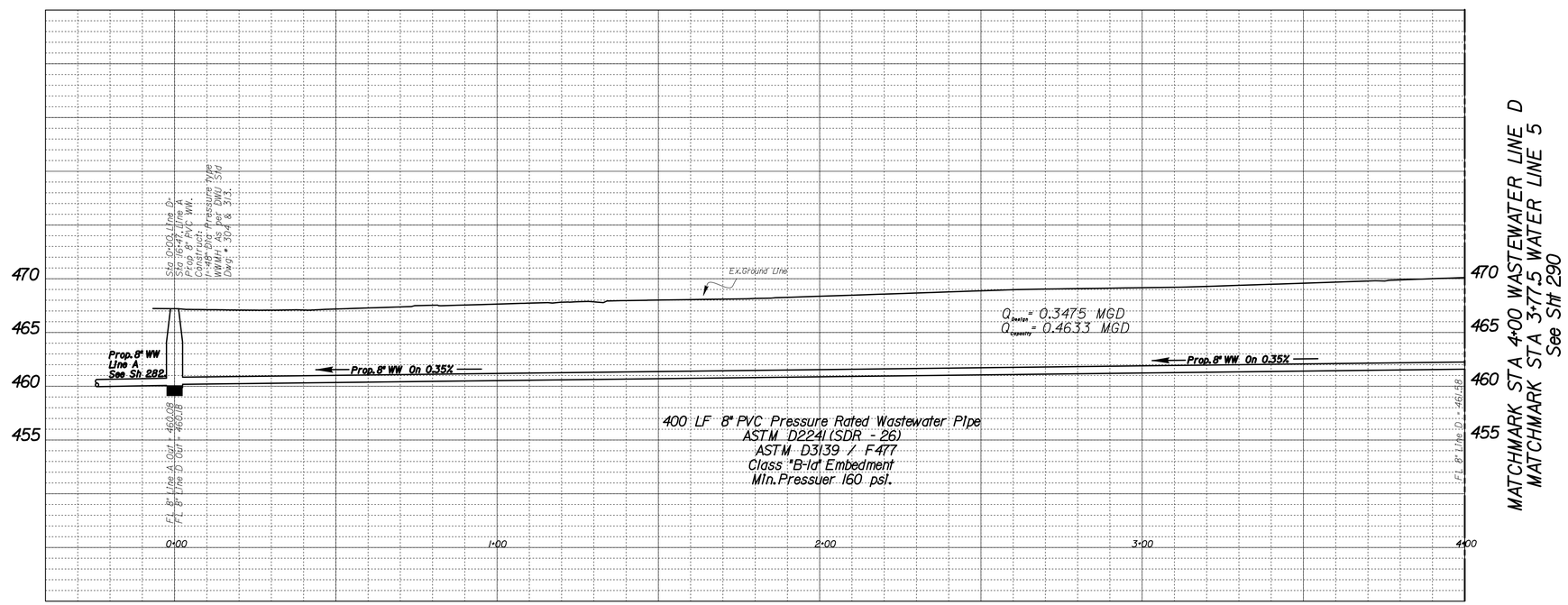
CONTRACT NO. 20-473/474 | PID: 6665 & 6667

# 8" Water and 8" Wastewater

PRIME LN.
LINDALOE LN. TO TURNOUT LN.
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| KC | KC | MAY 2021 | 411Q | 1906 | 288 |

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CAUTION ~ FIBER OPTIC !
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Days Prior To Constuction.
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CAUTION ~ POWER !
Underground Electrical Cables In Area
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Days Prior To Construction.
Tele: 1-800-344-8377

CAUTION ~ GAS !
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REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |

BENCHMARKS & CONTROL POINTS

**BENCHMARK #1**
BM COD:
SQUARE CUT ON SOUTHWEST CORNER OF CONCRETE BRIDGE ON F.M.1382 OVER MOUNTAIN CREEK AND 0.3 MILE NORTH OF CENTERLINE OF CAMP WISDOM RD.
Elev = 473.30 Ft

**BENCHMARK #2**
BM COD:
STD.WDFM IN CENTER OF SOUTH CONCRETE HEADWALL TO A 30 X 92 CPNCRETE PIPE CULVERT UNDER CAMP WISDOM RD AND 0.4 MILE EAST OF MOUNTAIL CREEK PKWY
Elev = 512.23 Ft

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP 100 | 6927685.023 | 2436925.206 | 467.247 | Mag Nail |
| CP 101 | 6927187.117 | 2437233.378 | 471.677 | Mag Nail |
| CP 102 | 6926568.942 | 2437561.343 | 476.581 | Mag Nail |

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

STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

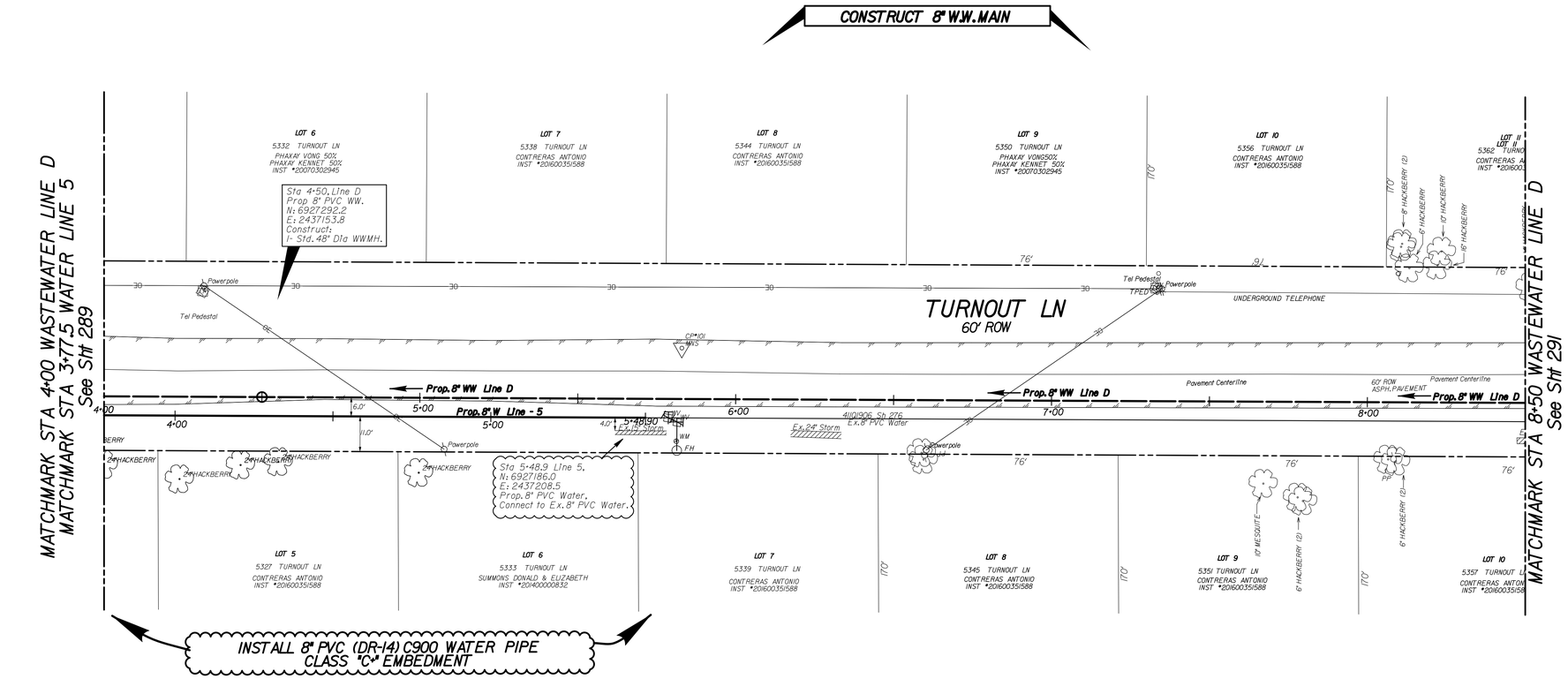
REFERENCES
WATER
N/A
WASTEWATER
N/A

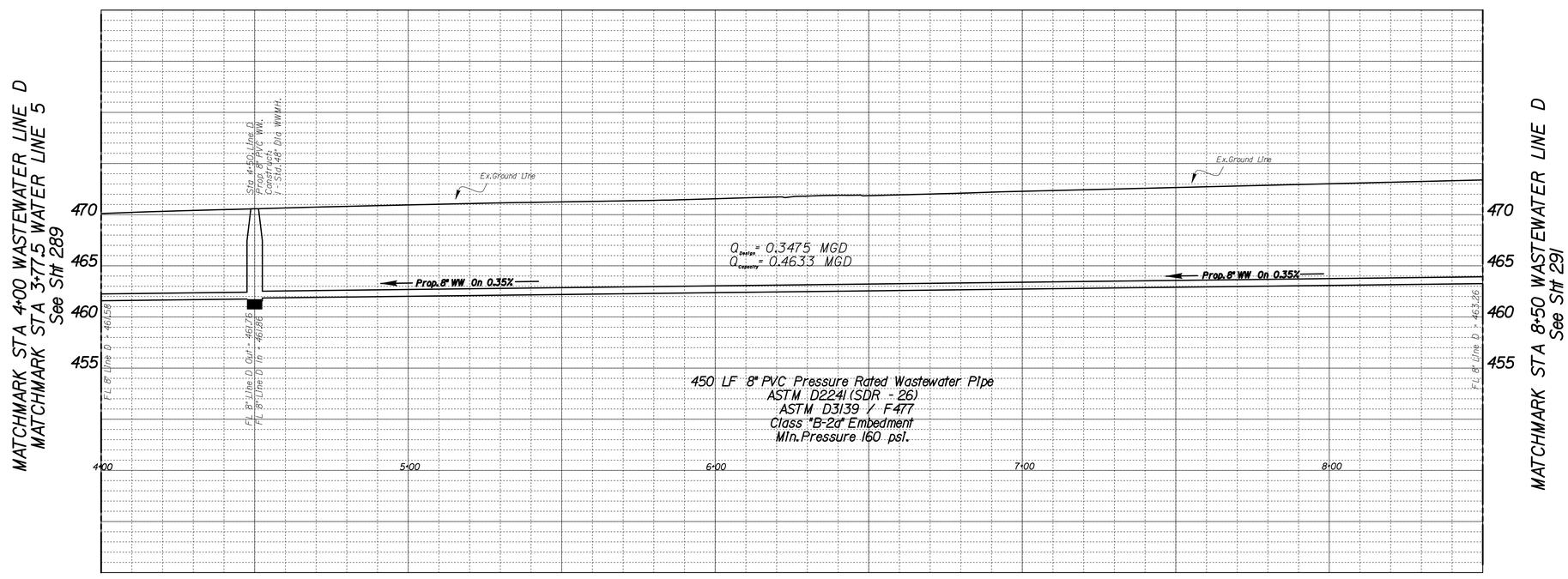
Dallas Water Utilities

CONTRACT NO. 20-473/474 SCHEDULE B | PID: 6666

# PROPOSED 8" WATER & 8" WASTEWATER
## TURNOUT LANE
## MESQUITE HEIGHTS DR TO LINDALOE LN
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| M.Tomy | M.Tomy | May 2021 | 411Q | 1906 | 289 |




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 #1**
BM COD:
SQUARE CUT ON SOUTHWEST CORNER OF CONCRETE BRIDGE ON F.M.1382 OVER MOUNTAIN CREEK AND 0.3 MILE NORTH OF CENTERLINE OF CAMP WISDOM RD.
Elev = 473.30 Ft

**BENCHMARK #2**
BM COD:
STD.WDFM IN CENTER OF SOUTH CONCRETE HEADWALL TO A 30 X 92 CONCRETE PIPE CULVERT UNDER CAMP WISDOM RD AND 0.4 MILE EAST OF MOUNTAIL CREEK PKWY
Elev = 512.23 Ft

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP 100 | 6927685.023 | 2436925.206 | 467.247 | Mag Nail |
| CP 101 | 6927187.117 | 2437233.378 | 471.677 | Mag Nail |
| CP 102 | 6926568.942 | 2437561.343 | 476.581 | Mag Nail |

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

REFERENCES
WATER
411Q1906 Sh 276
WASTEWATER
N/A

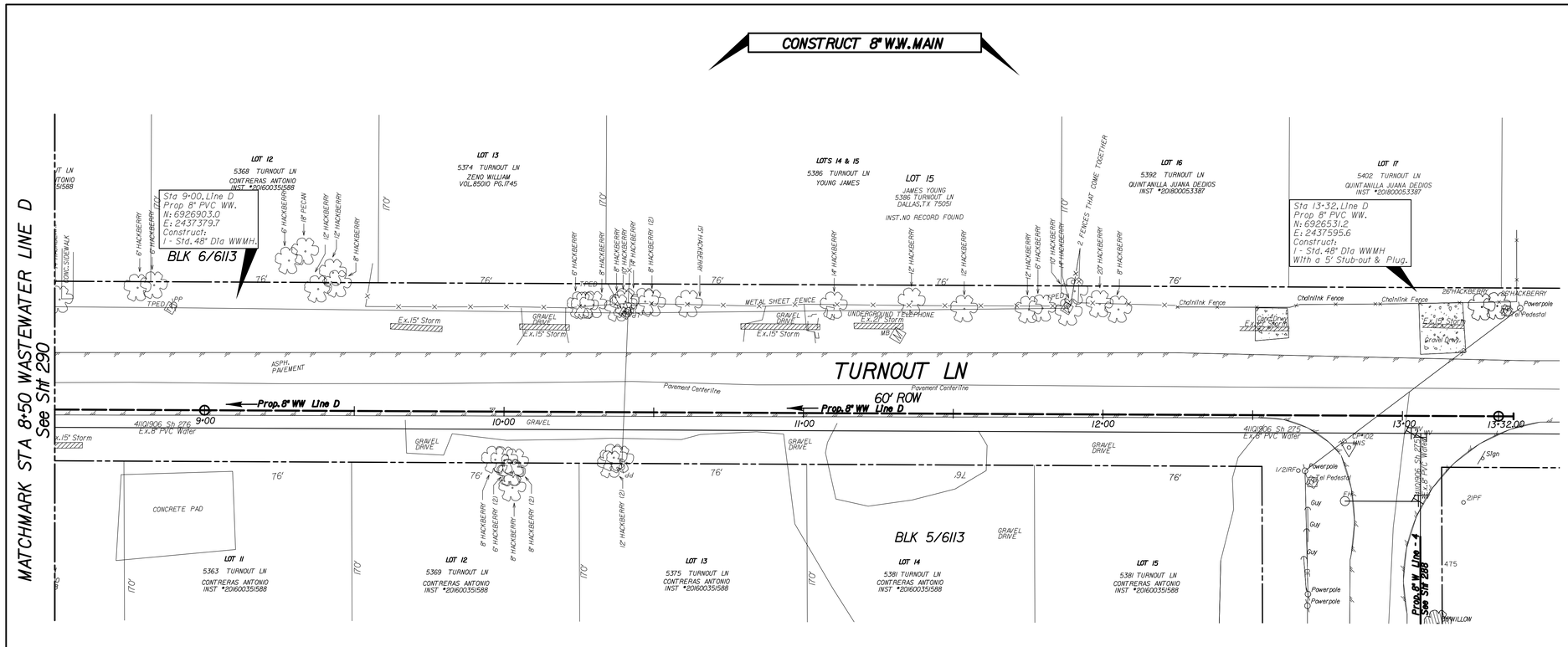
STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

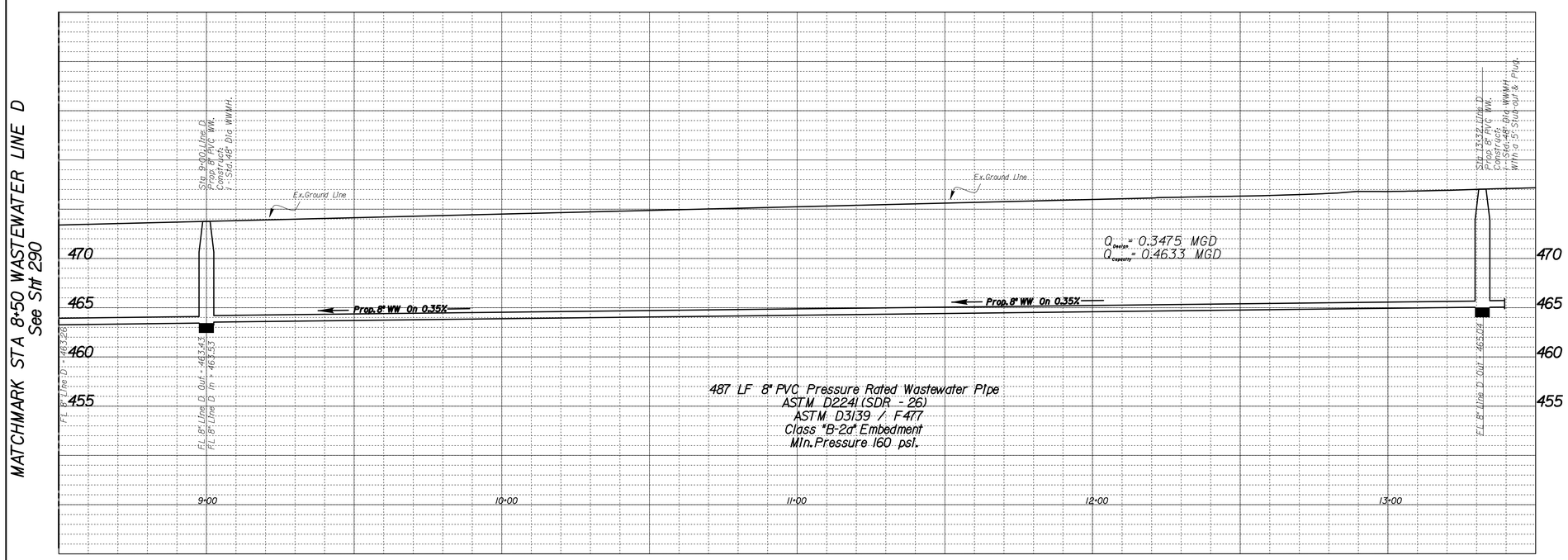
Dallas Water Utilities

CONTRACT NO. 20-473/474 SCHEDULE B | PID: 6666

# PROPOSED 8" WATER & 8" WASTEWATER
## TURNOUT LANE
## MESQUITE HEIGHTS DR TO LINDALOE LN
## DALLAS WATER UTILITIES
## CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| M.Tomy | M.Tomy | May 2021 | 411Q | 1906 | 290 |




CAUTION ~ TELEPHONE !
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CAUTION ~ FIBER OPTIC !
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CAUTION ~ POWER !
Underground Electrical Cables In Area
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Tele: 1-800-344-8377

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

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Tel: 214-670-5537
Email: DWUMRO@dallascityhall.com

REVISIONS

| REV NO. | DATE | DESCRIPTION | BY |
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| 2 | | | |

BENCHMARKS & CONTROL POINTS

**BENCHMARK #1**
BM COD:
SQUARE CUT ON SOUTHWEST CORNER OF CONCRETE BRIDGE ON F.M.1382 OVER MOUNTAIN CREEK AND 0.3 MILE NORTH OF CENTERLINE OF CAMP WISDOM RD.
Elev = 473.30 Ft

**BENCHMARK #2**
BM COD:
STD.MDFM IN CENTER OF SOUTH CONCRETE HEADWALL TO A 30 X 92 CPNCRETE PIPE CULVERT UNDER CAMP WISDOM RD AND 0.4 MILE EAST OF MOUNTAIL CREEK PKWY
Elev = 512.23 Ft

| Point | Northing | Easting | Elev. | Description |
|---|---|---|---|---|
| CP 100 | 6927685.023 | 2436925.206 | 467.247 | Mag Nail |
| CP 101 | 6927187.177 | 2437233.378 | 471.677 | Mag Nail |
| CP 102 | 6926568.942 | 2437561.343 | 476.581 | Mag Nail |

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

STATE OF TEXAS
RICHARD JAMES LUCAS
99978
LICENSED
PROFESSIONAL ENGINEER

REFERENCES
WATER
4110906 Sh 275
WASTEWATER
N/A

Dallas Water Utilities

CONTRACT NO. 20-473/474 SCHEDULE B | PID: 6666

# PROPOSED 8" WATER & 8" WASTEWATER
## TURNOUT LANE
MESQUITE HEIGHTS DR TO LINDALOE LN
DALLAS WATER UTILITIES
CITY OF DALLAS, TEXAS

| DESIGN | DRAWN | DATE | FILE | NUMBER | SHEET |
|---|---|---|---|---|---|
| M.Torny | M.Torny | May 2021 | 4110 | 1906 | 291 |