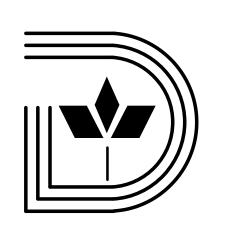
WATER AND WASTEWATER MAIN REPLACEMENTS AT VARIOUS LOCATIONS

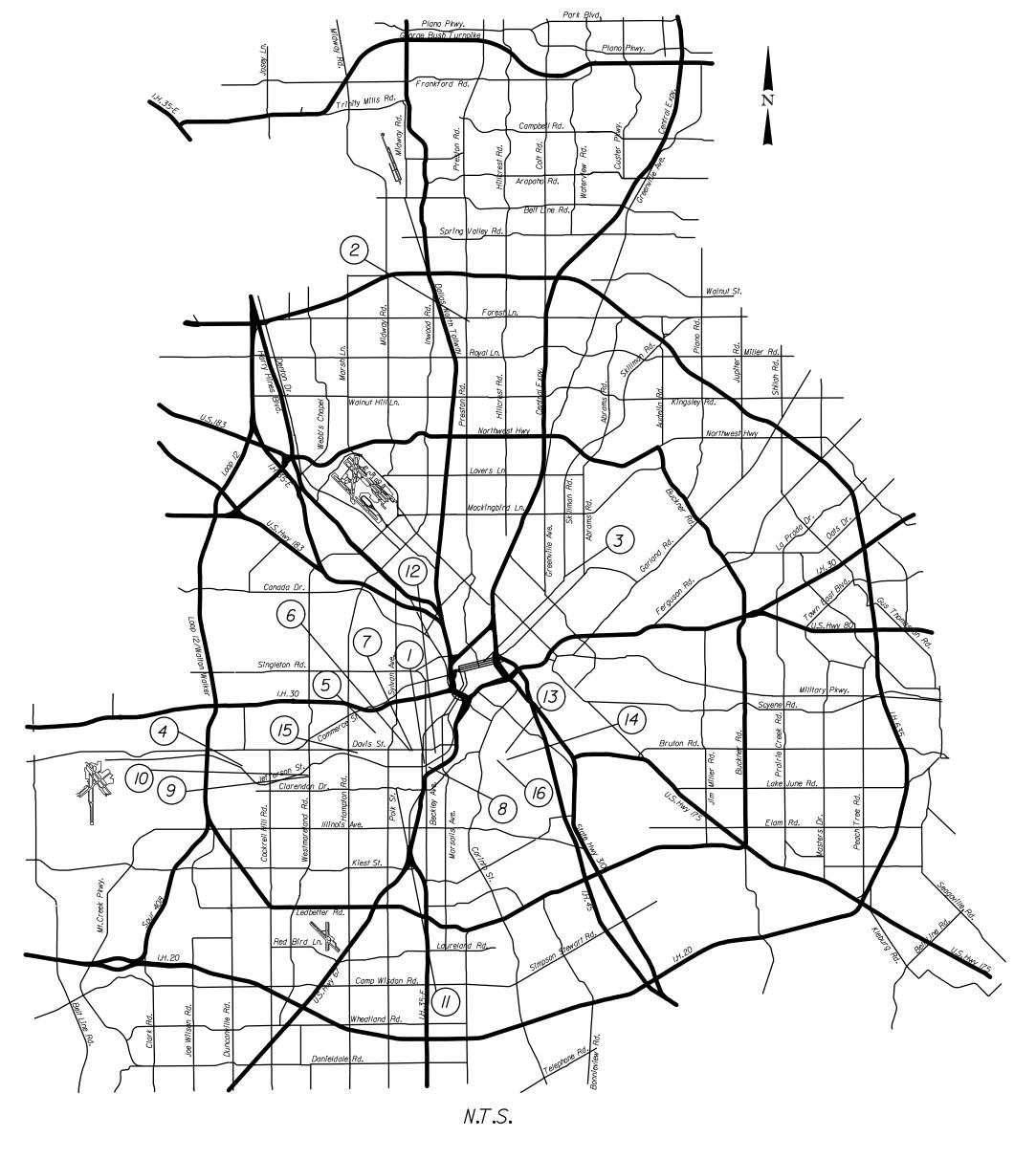


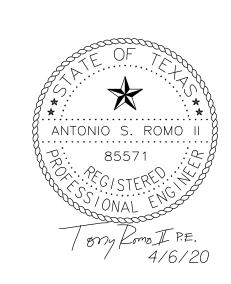
Dallas Water Utilities City Of Dallas, Texas

Contract No.: 20 - 109/110 **April, 2020**

NO. PID DESIGN SHEET LOCATION Beckley Ave from Sunset Ave to 8th St 411Q - 1717 Sh. 125-126 Northaven Rd from Preston Rd to Ricks Cir 411Q - 1325 Sh. 166-172 La Vista Ave from Skillman St to Swiss Ave 411Q - 0381 Sh. 041-042 Alley between Edgefield Ave and Windomere Ave from North and South from Taft St 411Q - 2001 Sh. 479 Easement between Jefferson Blvd and Counts 411Q - 3046 Sh. 079 Blvd from Counts Blvd Southeast 411Q - 1717 Sh. 127-128 7th St from North Van Buren to Bishop Ave Adams St from 7th to Davis St 411Q - 1717 Sh. 129 Alley between 9th St and 10th St from Zana 411Q - 1717 Sh. 130-132 Blvd to Storey St | 3254 & | Westmoreland Rd from Irwindell Blvd 411Q - 0318 Sh. 021-026 to Ivandel Ave Alley between Brooklyndell Ave and Irwindell 4133 411Q - 0318 Sh. 027-028 Blvd from Coombs Creek to Westmoreland Rd Easement between Tyler St and Nolte Dr from Nolte Dr to Claredon Dr 411Q - 3052 Sh. 116 Alley between 9th St and 10th St from Patton 411Q - 1557 Sh. 033 5/55 Ave to Denver St IIth St from Avenue H to Avenue J 411Q - 0508 Sh. 012-016 5739 Avenue I from 11th St to Child St 411Q - 0508 Sh. 017-019 West Davis St from Malborough Ave to 5863 411Q - 0832 Sh. 031-033 Mary Cliff Rd Avenue E from 11th St to Sanderson Ave 411Q - 0508 Sh. 020-022

WATER & WASTEWATER SHEET INDEX GROUP 1





GENERAL LEGENDS

GENERAL NOTES

STORM DRAINS

Exist.Storm Drain

Exist.Storm Manhole

Exist.Storm Inlet

Exist, 45' Fitting

Exist, 90' Fitting

Exist Reducer

Exist.Tee

Exist.Cross

Exist.Plua

Cut & Plug

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Exist.Tapping Sleeve

Exist.Blind Flanae

Prop. II.25° Fittina

Prop. 22.5° Fitting

Prop. 45° Fitting

Prop 90° Fitting

Prop. Tappina Sleeve

Prop.Blind Flange

Fxist.Gate Valve

Exist.Check Valve

Exist.Flush Point

Exist Air Valve

Prop.Gate Valve

Prop.Flush Point

Prop. Air Valve

WASTEWATER MAINS & APPURTENANCES

Prop.Cathodic Test Station

Exist.6" to 27" Wastewater Main

Exist.30" or Larger Wastewater Main

Prop. 30" or Larger Wastewater Main

Exist.Wastewater Manhole

Exist.Wastewater Cleanout

Exist.Wastewater Access Device

Prop.Wastewater Access Device

Prop.Wastewater Cleanout

Prop.6" to 27" or Larger Wastewater Main

Prop.High/Low Valve

Exist.High/Low Valve

Exist.Cathodic Test Station

Prop.Tee

Prop.Plug

HHHH

(5)

Iron Pin Set Prop.Storm Drain (s) Prop. Storm Manhole _/Ľ Prop. ROW Prop.Storm Inlet ROW Centerline UTILITIES Exist.Gas Line Exist.Easement **6** Prop Fasement Exist Gas Manhole Corporation Line Market Exist.Underground Electric Line Exist, Structure/Buildina Exist. Overhead Electric Line ET Prop.Structure/Building Exist. Electric Pad Mounted Transformer Exist.Electric Power Pole Exist. Electric Pole Anchor Bank/Slope Line (E) Flow Line/Stream Line Exist. Flectric Utility Manhole EV Exist. Electric Vault TOPOGRAPHIC FEATURES Exist.Telephone Line (τ) Exist, Telephone Utility Manhole Tree TP Exist.Telephone Pedesta \bigcirc Exist.Fiber Optic Line Brush, Shrub, Wood ŁŁ F Swamp Exist. Fiber Optic Manhole Mail Box — CATV— Exist Cable TV Line (c) (ICV) Irrigation Control Valve WATER MAINS & APPURTENANCES Chain Link/Other Fence Exist.6" Water Main Exist.8" to 27" Water Main Wrought Iron Fence Brick Wall 8////// Fxist.30" or Larger Water Main Prop.6" Water Main Prop.8" to 27" Water Main Retaining Wall Prop. 30" or Larger Water Main Parkina Meter Future Water Main Exist.Water Meter Traffic Sign Ö 0 Traffic Stanat Pole Exist.Water Manhole * \bowtie Street Lamo Exist.Water Vault OFF Exist.Fire Hydrant 0 PAVEMENT Prop.Water Manhole \boxtimes Exist.Gravel Prop.Water Vault Prop.Fire Hydran Exist.II.25° Fitting Exist.Brick 4 4 4 Exist.Concrete Exist. 22.5° Fitting

GENERAL

Iron Pîn Found

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GENERAL

- All work shall be done in accordance with the North Central Texas Council Of Governments (NCTCOG) Standard Specifications for Public Works Construction (Fourth Edition, 2004) and City of Dallas Addendum (October, 2011) to these specifications.
- Reference to standard drawings shall mean those shown in the DWU Standard Drawings for Water & Wastewater Construction Latest Edition (October, 2017).
- 3. All items of work required to complete the work as shown or implied by the plans and as specified in the control
- 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 beginning construction (including ordering pre-cast manholes and concrete pipe if applicable, NO SEPARATE PAY ITEM
- The Contractor shall contact Texas Excavation Safety System (800-DIG-TESS: 800-344-8377) and relevant utility companies 48 hours prior to locating existing utilities and/or construction activities.
- The Contractor shall preserve and protect all existing utilities at all times during construction. Any damage to utilities resulting from the Contractor's operation shall be restored at his expense to its original or better condition.
- 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.
- 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.
- 10. Some drawings may contain survey that are -/- two (2) years of age and may have undergone modifications. Contractor shall be aware that some features within the project area may differ from the contract documents including but not limited to the new utilities, sidewicks, properly name or ownership and landscaping, Contractor shall coordinate with Dig TESS and other utility companies at no additional cost to owner and notify DWU of any conflicts during construction.
- II. This project is subject to the American Iron and Steel AISI requirements of Section 608 of the Federal Water Pollution control Act, including federal appropriation acts, All iron and steel products for construction, alteration, maintenance, or repairs incorporated in these plans must be produced in the United States.
- 12. Pipeline crossings of all potential waters of the U.S.will be performed using trenchless technology or by open trench. All open trenching work shall be done in compliance with Nationwide Permit 12 - Utility Line Activities. If project activitie within potential waters of the U.S., does not qualify under a nationwide permit, then the appropriate permit from the U.S. Army Corps of Engineers would be required prior to clearing or any other construction activities.
- 13. Prior to comencement of construction activities within any 100-year floodplain, a floodplain permit or exemption must be obtained from the local Floodplain Administrator of the National Flood Insurance Programs.
- 14. The project also must comply with the following conditions:
- Standard emergency condition for the discovery of cultural resources.

TRAFFIC CONTROL

- I. The Contractor shall provide for the diversion of pedestrians and vehicles during the contruction in a manner satifactory to the on-site Ctly of Dallas Inspector and in accordance with the ctly of Dallas Traffic Barricade Manual, indest edition. NO SEPARATE PAY ITEM
- 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.
- 3. The Contractor shall maintain access to private driveways at all times during construction.NO SEPARATE PAY ITEM.
- 4. The Contractor shall replace any pavement markings and signs that are removed or damaged during construction. NO SEPARATE PAY ITEM.
- The Contractor shall coordinate all traffic variances with Traffic Safety Coordinators at 214-670-5896 or mobile 214-683-5189,City Of Dallas Public Works & Transportation.
- Two way traffic shall be maintained at all times and flagmen should be used to maintain two-way traffic as necessary.
- 7. All barricades,warning signs and traffic control devices shall conform to the City Of Dallas standards. NO SEPARATE PAY ITEM.
- When closing side streets, two working days notification is required for Fire, Police, Streets and Sanitation Departments. Please contact Gary Maxwell at 670-5896 or mobile 683-5189 to notify traffic restrictions.
- 9. Vehicular ingress and egress (entrance and exit) to a business property shall be maintained at all times. In instances where this is not possible, 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.
- 10. Construction ditches in the traffic lanes are to be barricaded, backfilled or plated at the end of each work day.

TREES AND LANDSCAPING

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

ADVANCED METERING INFRASTRUCTURE

- Caution! Advanced Metering Infrastructure (AMI) Meters might be present in the area. Contractor shall not remove, damage, or otherwise disturb AMI meter endpoint components unless otherwise directed by the DWU Meter Reading Operation (MRO) Technician.
- 2. If any AMI Components need to be disconnected, reconnected, removed, or installed, the Contractor shall contact MRO five (5) working days prior to commencing work at 2/4-670-5537 and Email: DWUMRO@dallascityhall.com.
- Contractor shall install AMI meter lids for water meters 2" and smaller in all Existing AMI and Proposed AMI's Contractor shall also return the existing AMI lids from existing AMI's to DWU MRO for meters 2" or smaller. NO SEPARATE PAY ITEM.
- For meters 3" or larger, the contractor shall either connect to the existing meter vault or construct a new meter vault as specified on the plans.
- 5. Contractor shall be liable for the replacement cost of any lost or damaged AMI Components.
- All Meters in the Proposed and Existing AMI area shall be AMI-Ready as furnished by DWU. A non AMI-Ready meter shall be replaced with an AMI-Ready meter by DWU.

WATER MAIN AND APPURTENANCES

- I. All 4".6".8" and I2" water mains shall be PVC C900 (DR-I4) water pipe, with Class "C-" embedment, except as noted.
- All R.C.C.P. water mains shall be installed with bonded joints. All DI pipe and fittings shall be polywrapped. All flanged connections shall be insulated as per DWU Standard Drawing 223.
- 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.
- 4. Compact fittings are not authorized for this project. All ductile iron pipe, fittings and fire hydrant bases shall be poly-wrapped.
- All bends, tees fire hydrants and plugs are to be restrained type fittings and to be blocked with Class "B" Concrete
 as per DWU Standard Drawings "229-234, in addition to restrained joints.
- 6. The existing water line is to be used as a service line until the proposed main has been tested, approved and
- 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 SEPARTE PAY ITEM.
- If no temporary mains are required by the City of Dallas inspector, then the existing water mains are
 to be in service with the fire hydrants until the new water main has been tested, approved and accepted by DWU.
 NO SEPARATE PAY ITEM.
- 9. The Contractor will ensure that fire hydrants are accessible to fire trucks at all times. NO SEPARATE PAY ITEM.
- 10. The Contractor shall sequence his construction such that no more than one fire hydrant is out of service at any
- II. 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 4l2O Scottsdale Street Dallas, Texas if required by the City of Dallas Project Inspector, otherwise they become the property of the Contractor.
- 12. Fire hydrant leads and barrels shall be set to grade established for the proposed paving. If the hydrant is not accesssible because pf existing ground conditions, the hydrant shall be raised with extension(s) as directed by the owner.
- 13. Backfill used on point repairs to existing water mains may have been made with crushed rock. This could present a cave-in danger to a new ditch precautions should therefore, be taken by the Contractor. NO SEPARATE PAY ITEM.
- Abandon all water valves on existing mains being taken out of service as per DWU Standard Drawing *2/9.
 NO SEPARATE PAY ITEM.
- 15. The Contractor shall coordinate all water main tie-ins, pressure tests and disinfection with the City of Dallas Inspector.
- 16. The Contractor shall verify the location and number of all existing active water services and construct new services up to the meter prior to taking the existing main out of service.
- 17. All water services are to be replaced from the proposed water main to the meter. This Includes crossing all existing and proposed utilities and powement. Relocate and reset all the water meter(s) as required and reconnected to existing services. Install water deatheads on unimproved lots.
- 18. Water services greater than 30 feet shall be a minimum of one (I) inch in diameter

WASTEWATER MAIN AND APPURTENANCES

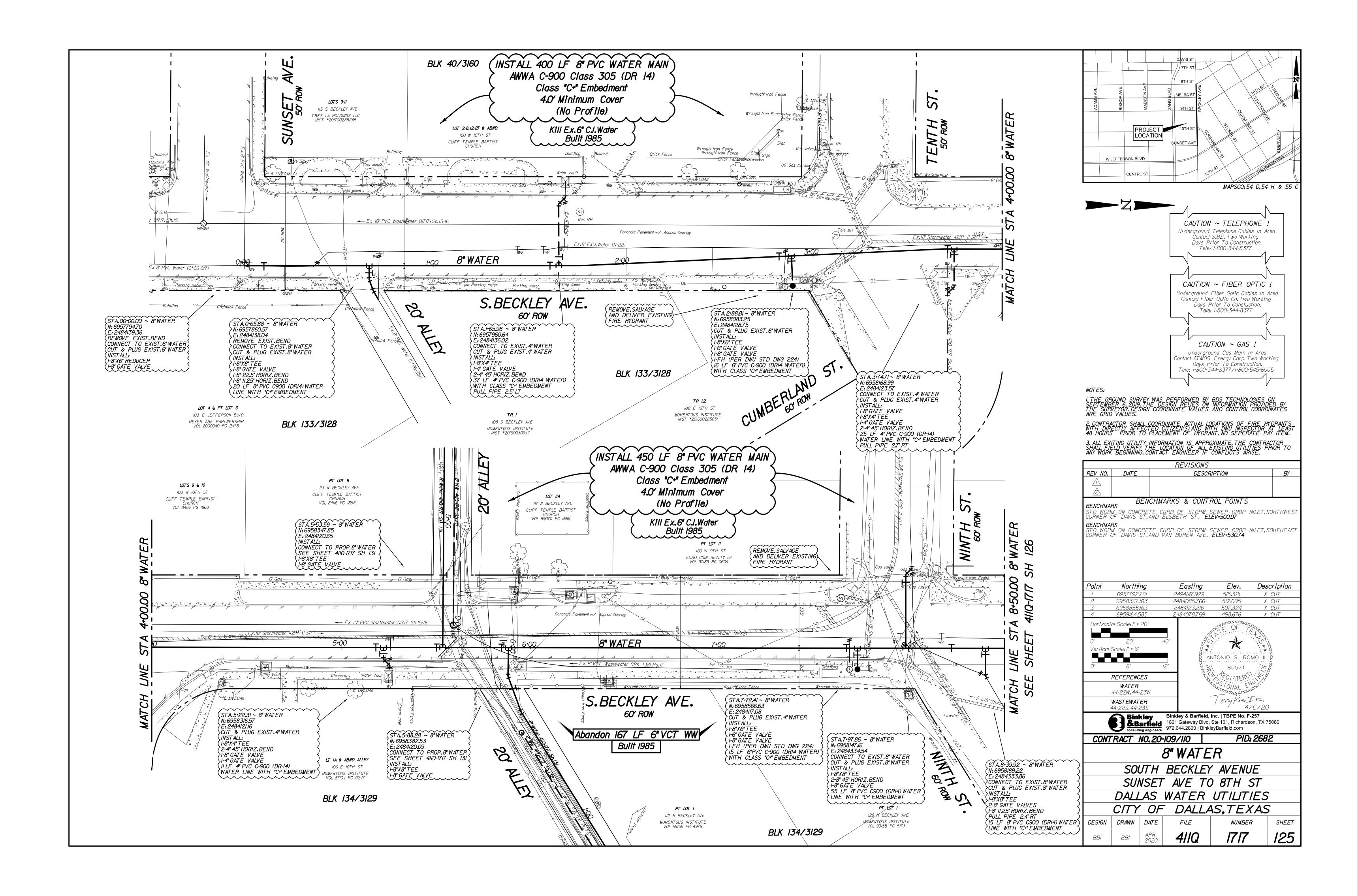
- I. The Contractor shall maintain existing wastewater flow at all times. NO SEPARATE PAY ITEM.
- 2. Abandon all manholes on abandoned wastewater mains as per specifications.
- 3. The Contractor shall verify the location of all wasterwater laterals and construct new laterals from the wastewater main to the property line with cleanouts and reconnect to the existing laterals. Dye testing maybe required at no additional cost to the owner.
- The backfill around manholes located in existing or new povement shall be flowable backfill as per NCTCOG Specification Item 6.2.IO/G), NO SEPARATE PAY ITEM.
- 5. Prior to reconnection of wastewater laterals, the Contractor shall verify wheter the existing lateral is active or inactive. The contractor is required, as minumum, to include TV survey & perform due testing All laterals determined to be inactive shall not be reconnected. The DMU Construction Superintendent shall approve all laterals targeted for reconnection.NO SEPARATE PAY ITEM.
- Excavation located in existing or new payement shall be backfilled using flowable backfill as per City of Dallas Addendum (Oct.20II Specification Item 502.6.COD.) NO SEPARATE PAY ITEM.
- 7. Removal of existing MH's, Wastewater Access Devices & Cleanouts is considered incidental unless noted atherwise
- 8. Construct wastewater lateral cleanouts at property line.

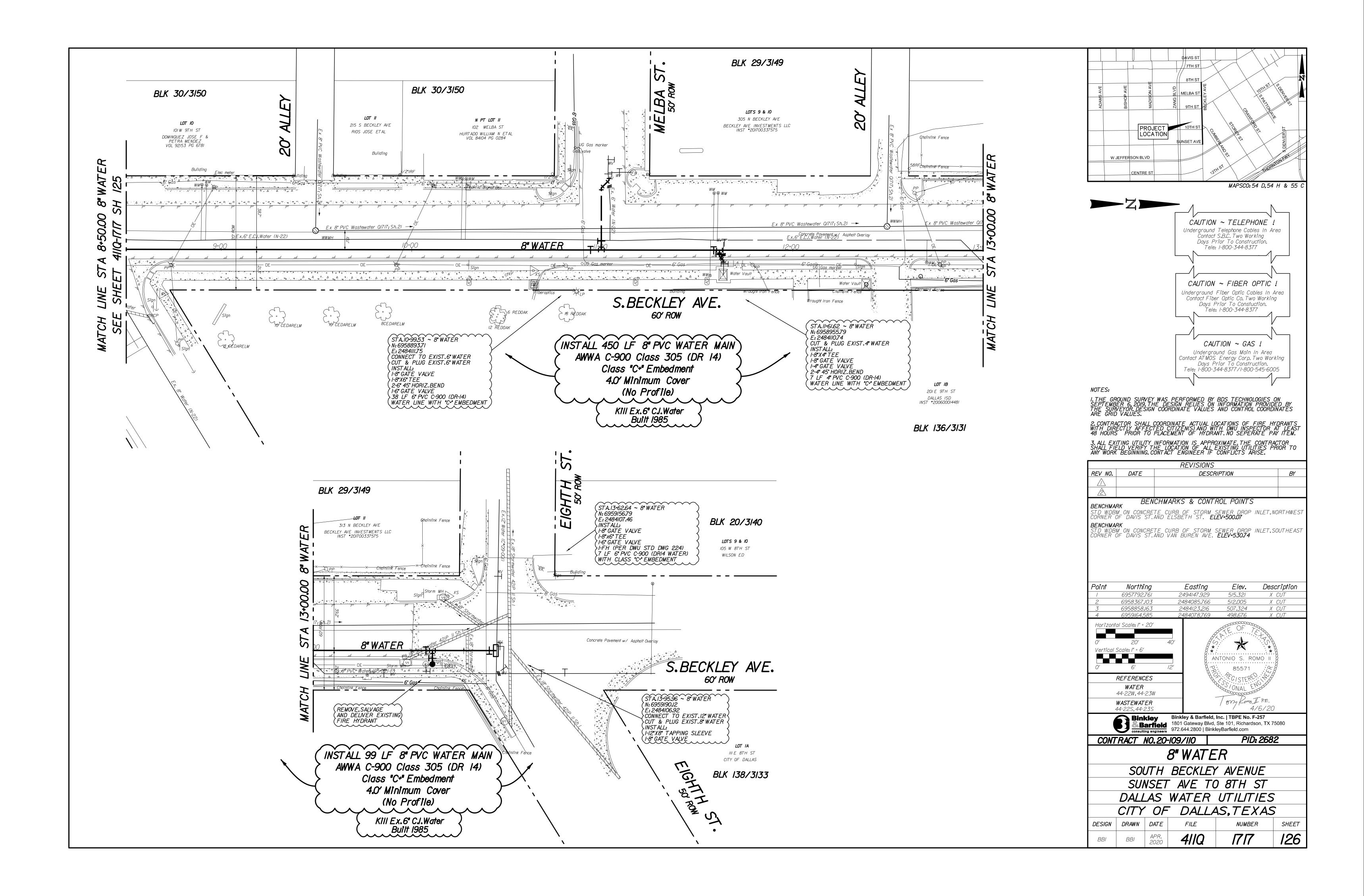
PAVEMENT REPLACEMENT

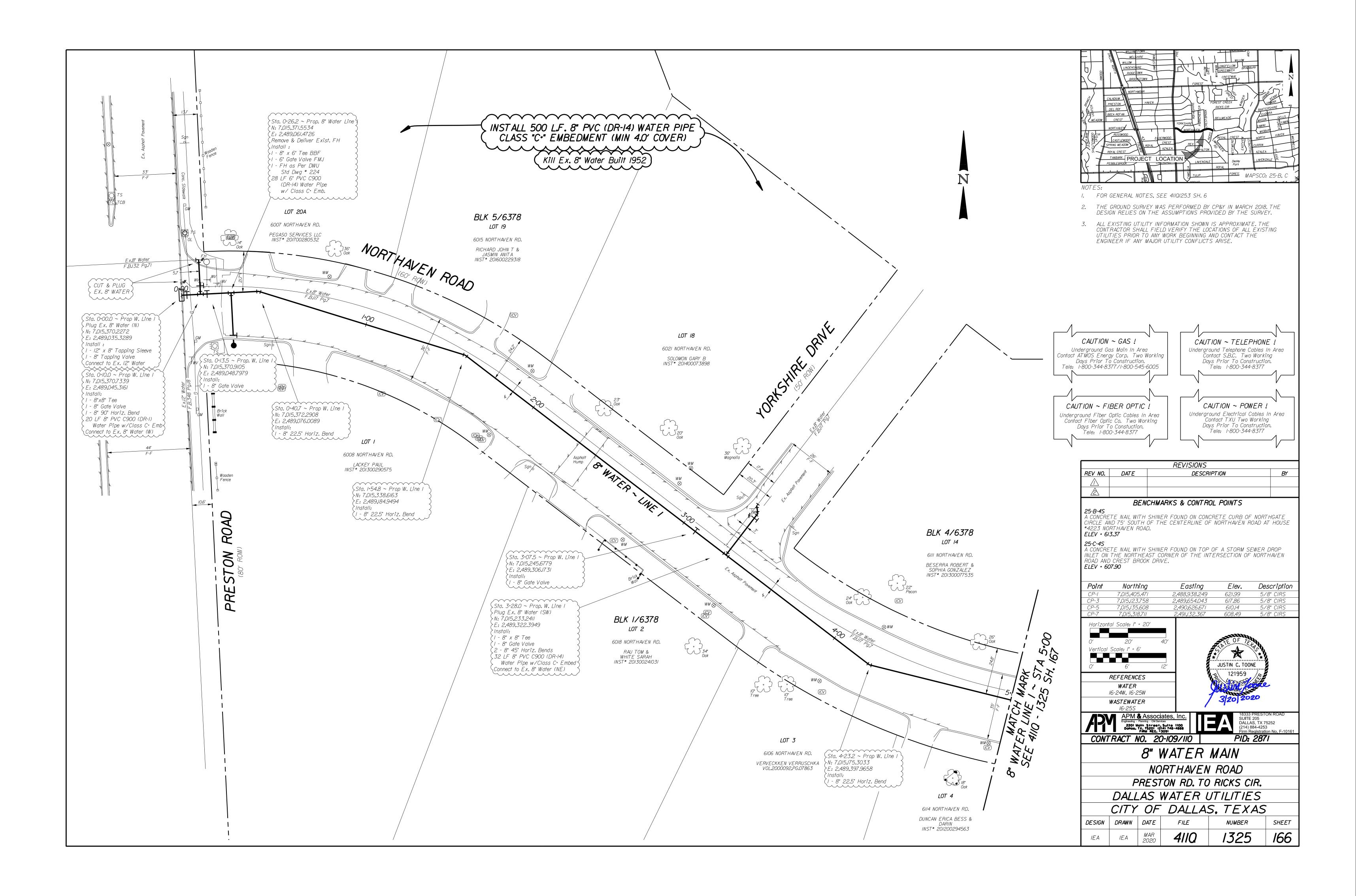
- All work pertaining to sawcut, replacement and removal of pavement, sidewalks, curbs and gutters shall conform
 to City Of Dallas Public Works & Transportation, Pavement Cuts & Repair Standards Manual, Latest Edition.
- 2. All disturbed povement markings including but not limited to striping traffic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

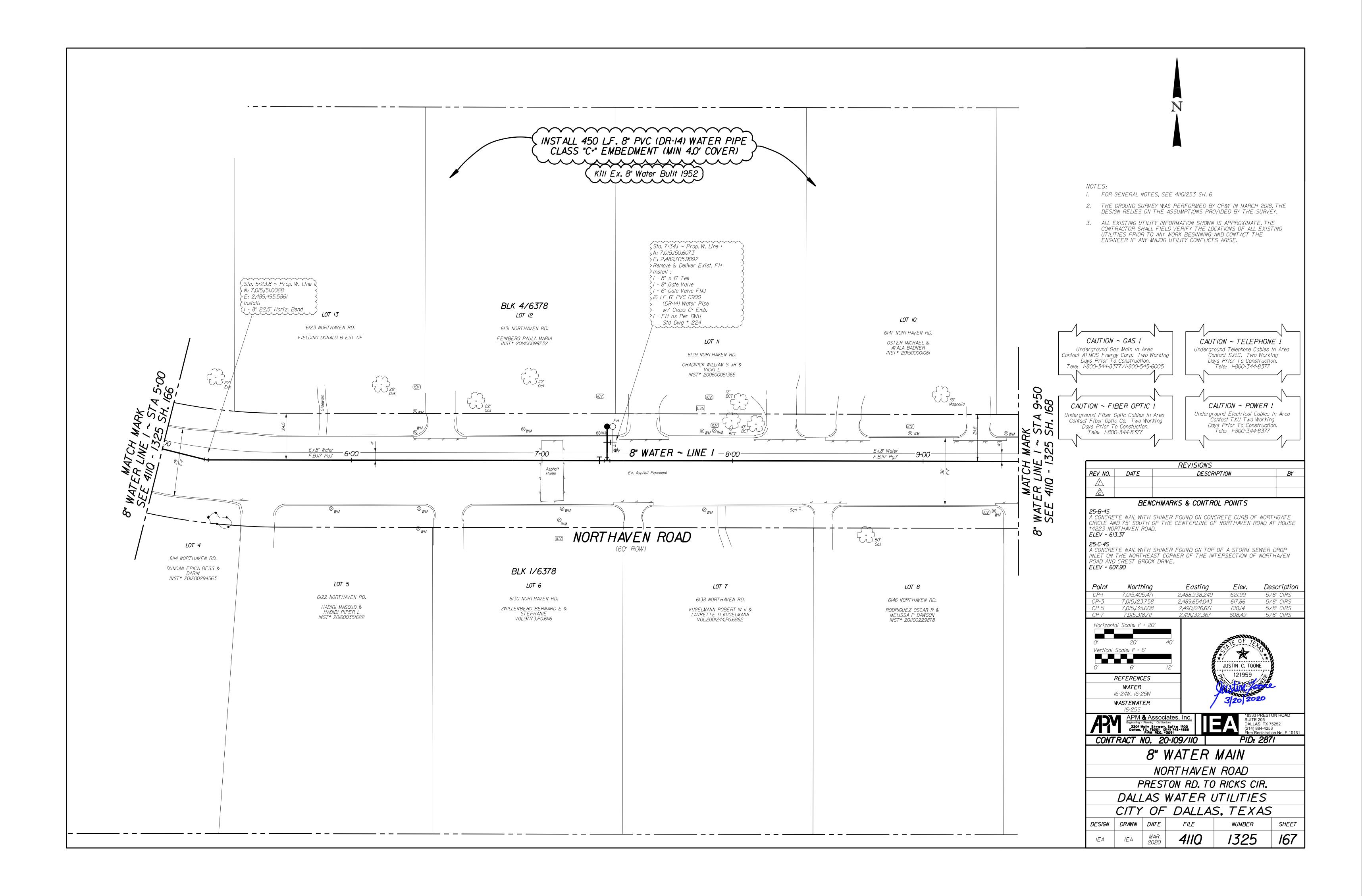


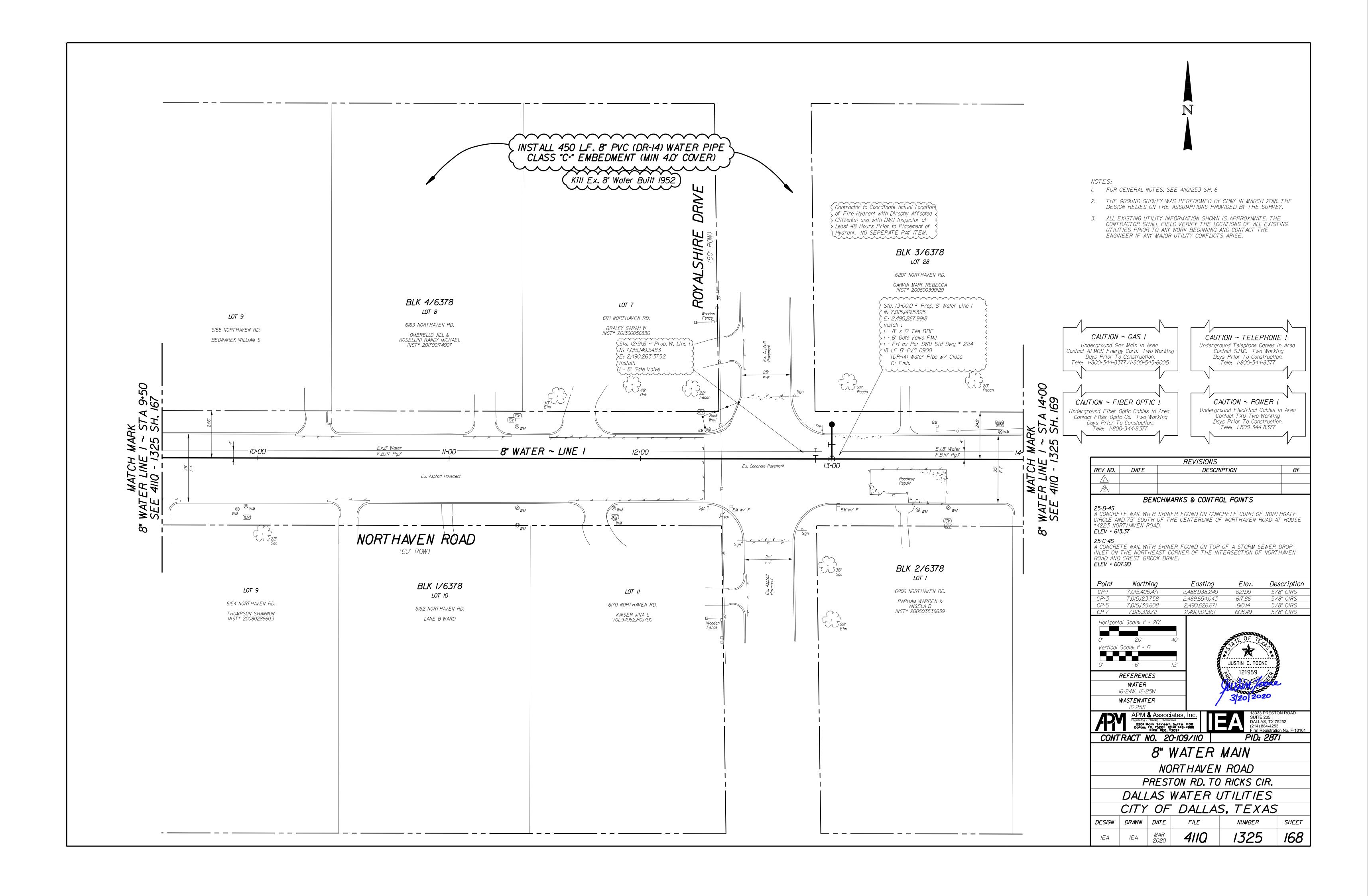
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CONT	RACT I	VO.20	-109/110		
GENERAL NOTES					
DALLAS WATER UTILITIES					
CITY OF DALLAS,TEXAS					
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
BBI	BBI	MAY 2020	4IIQ	1557	032

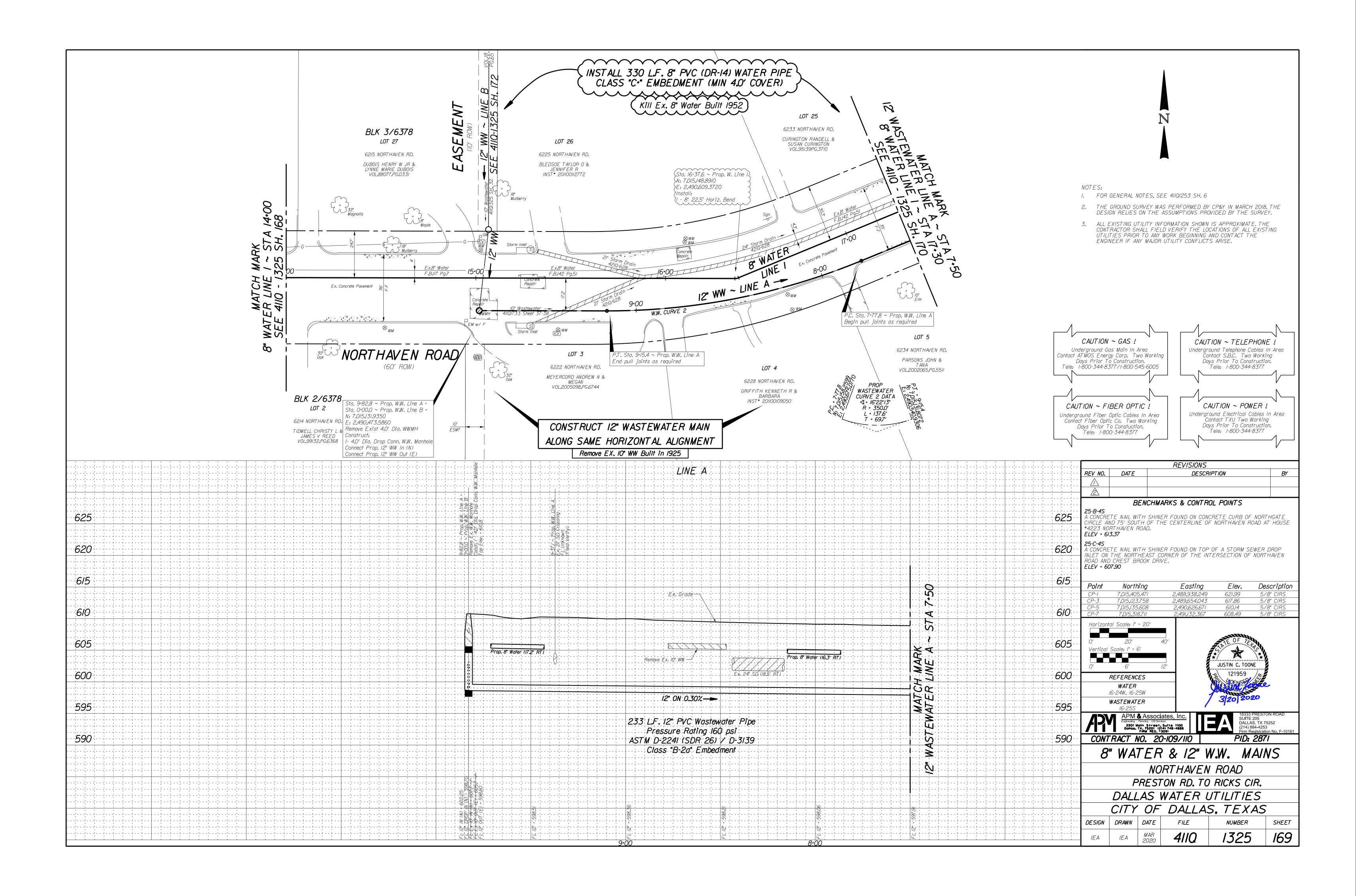


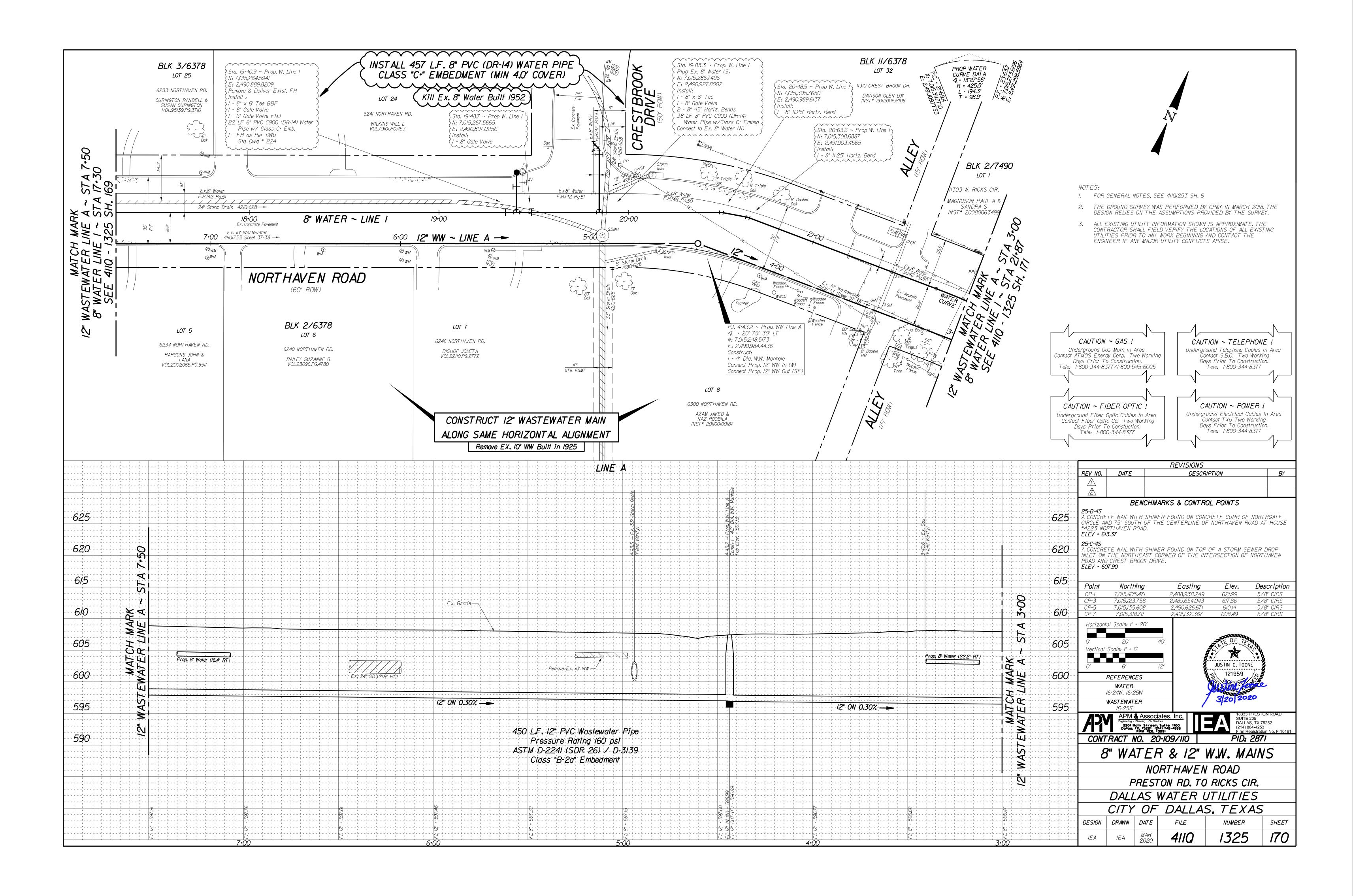


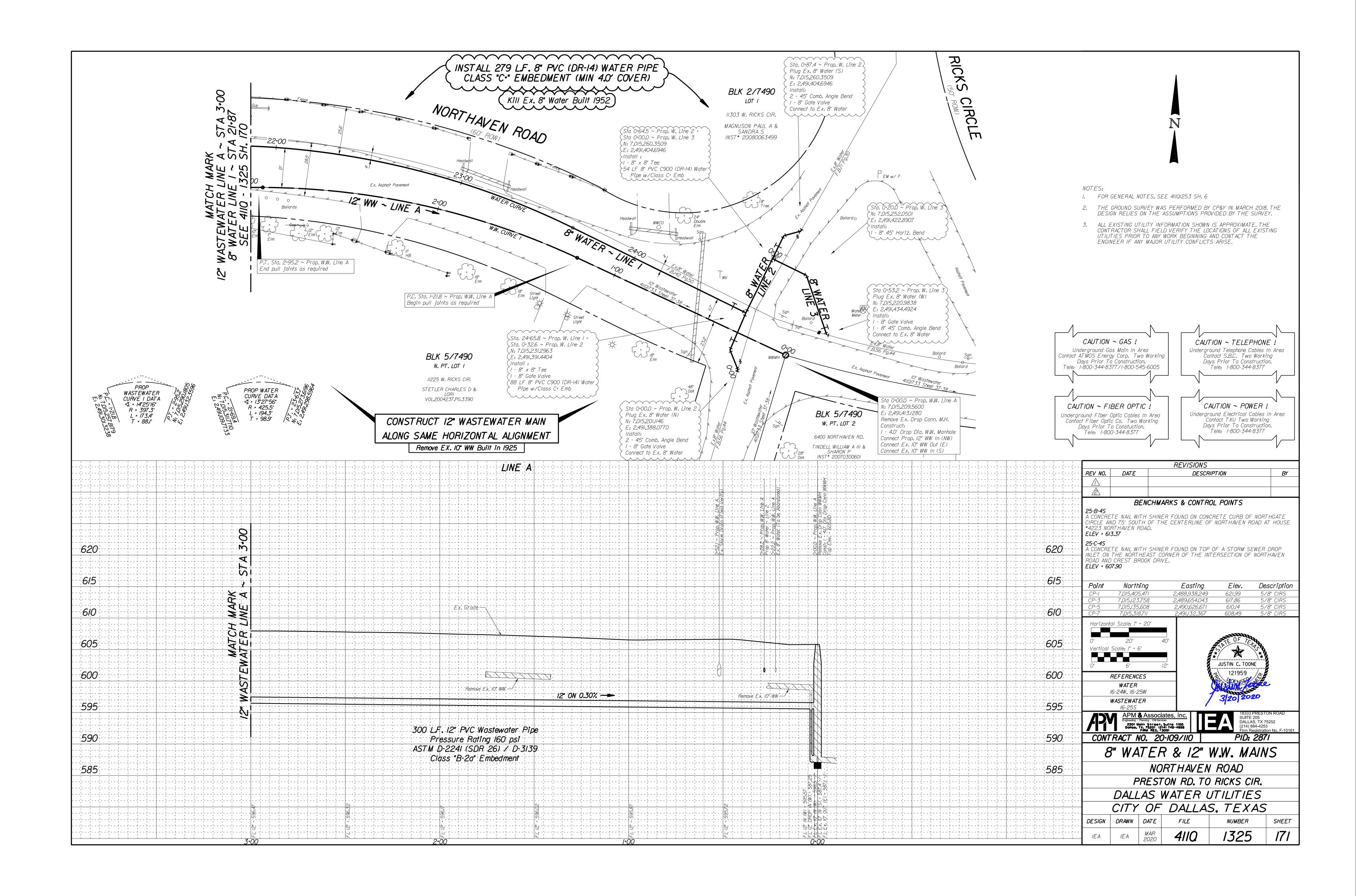


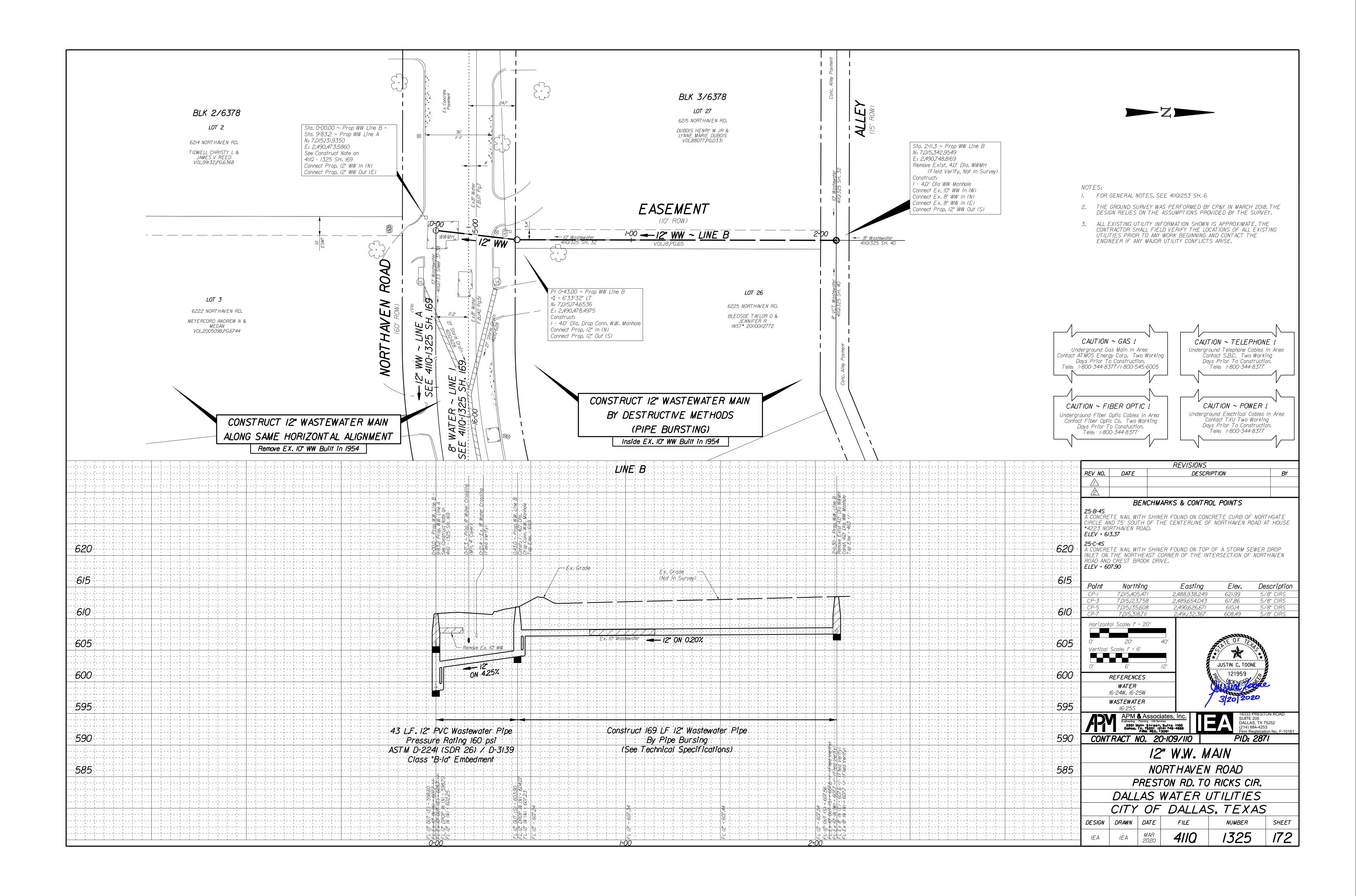


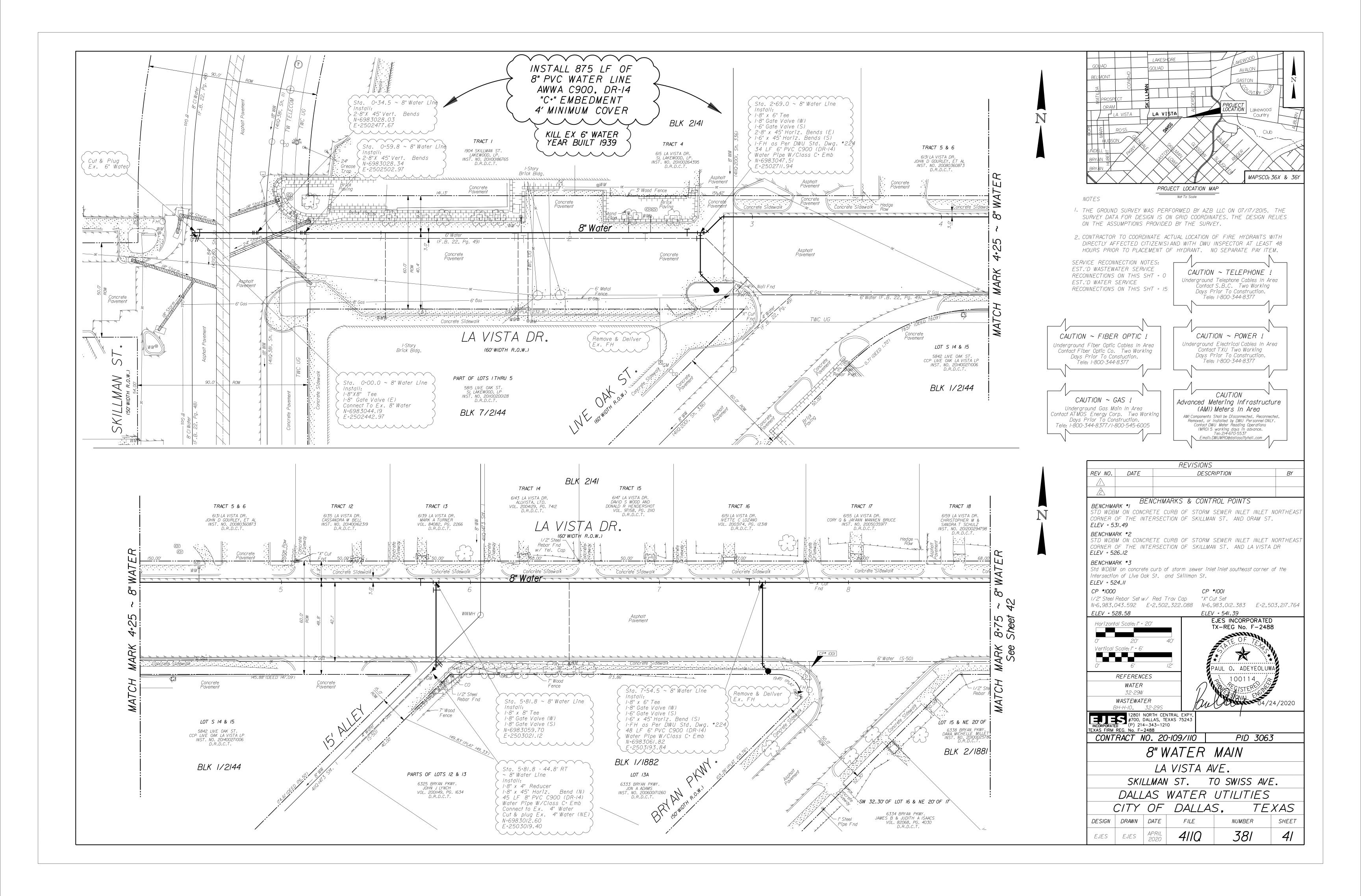


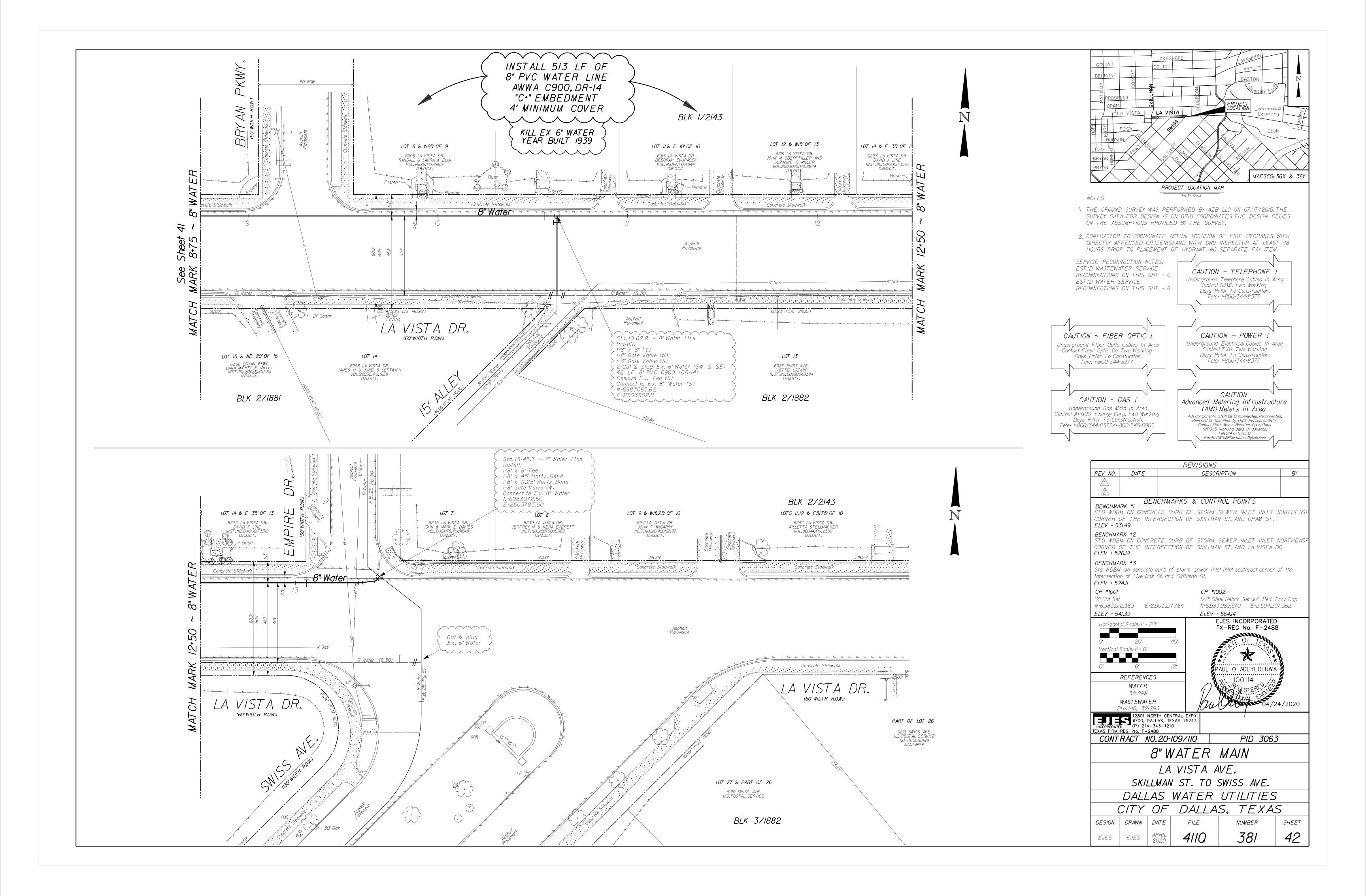


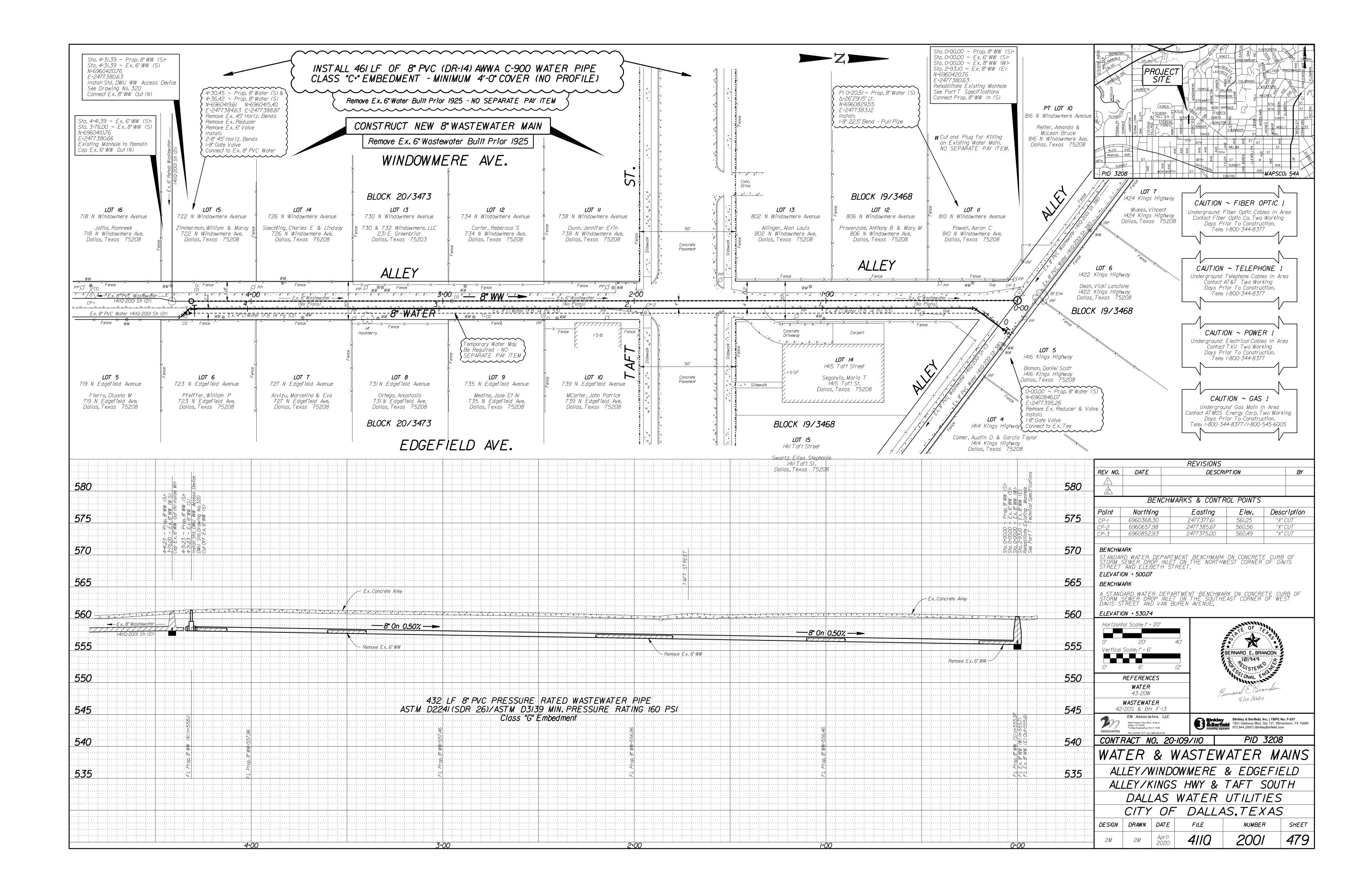


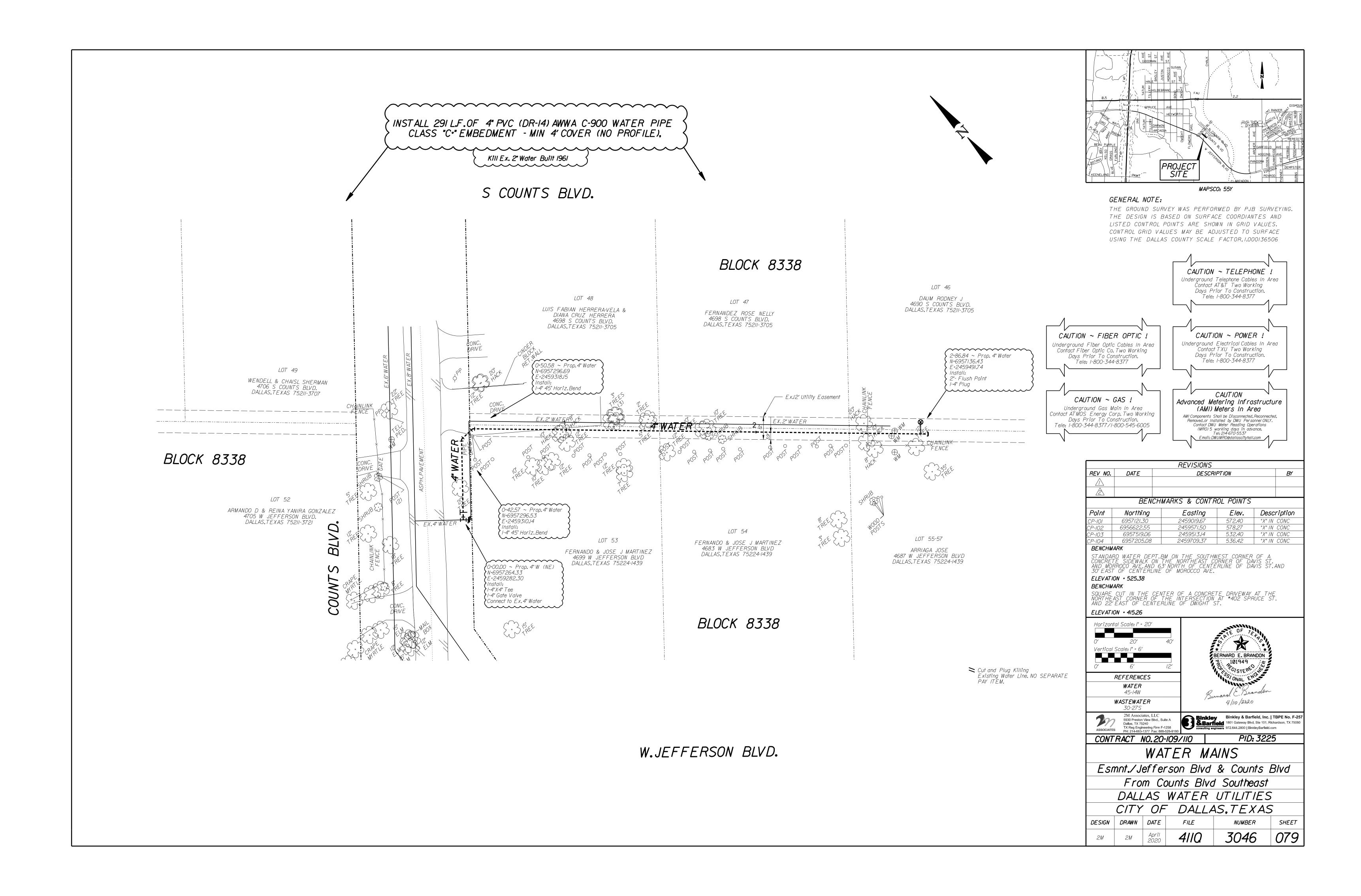


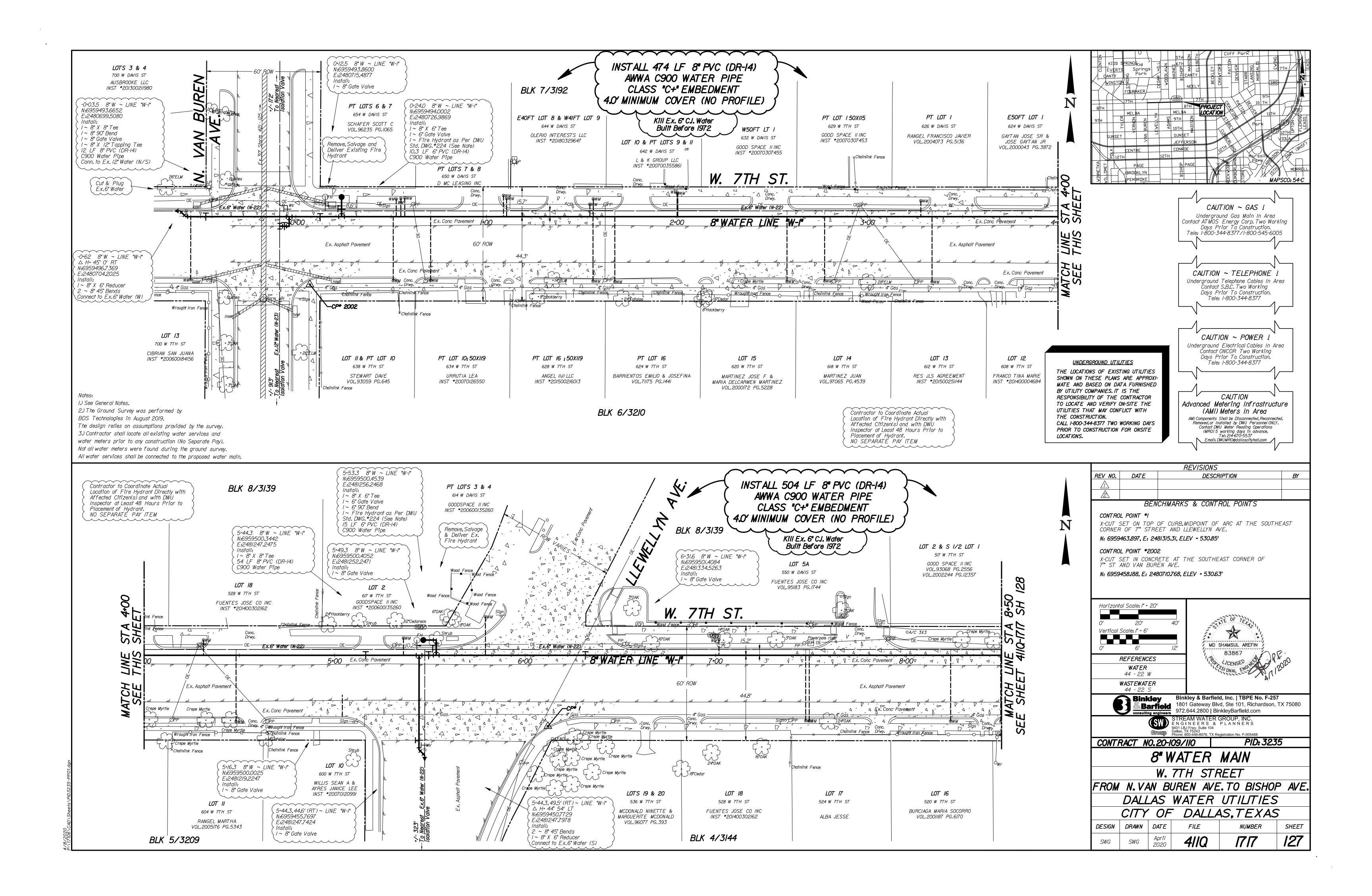


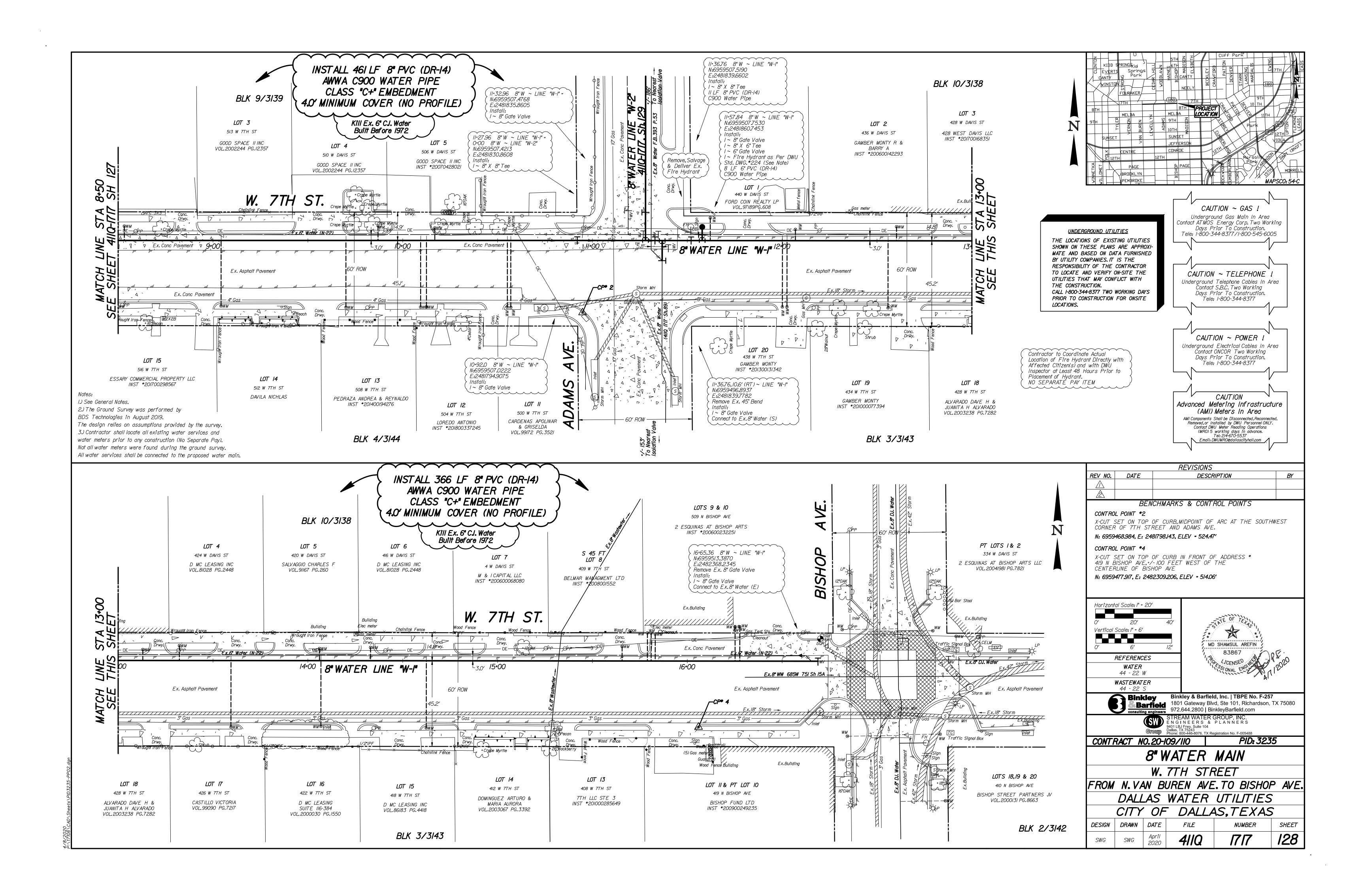


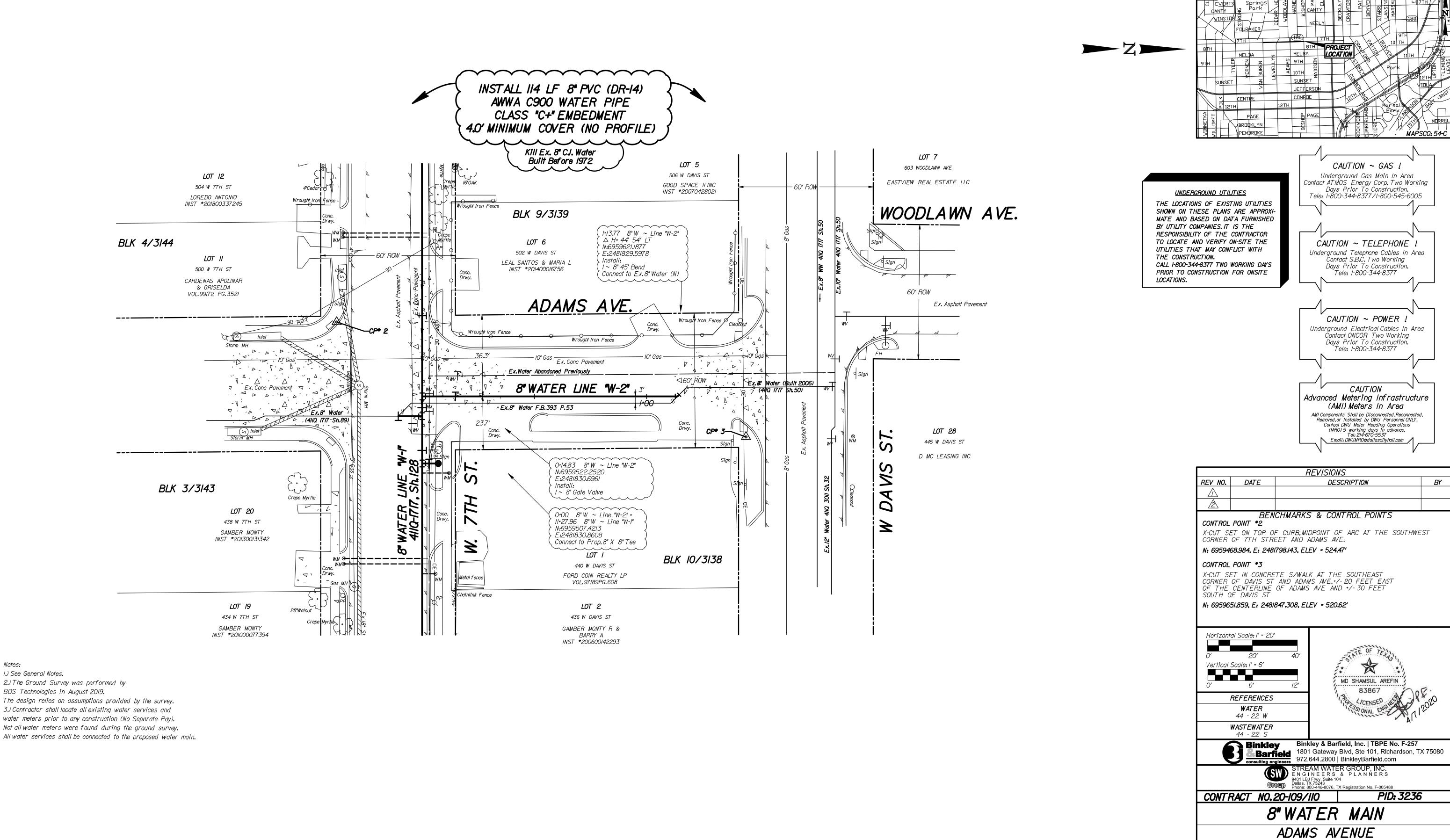












Notes:

I.) See General Notes.

FROM W.7TH ST.TO W. DAVIS ST.

DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS

DESIGN | DRAWN | DATE NUMBER April 2020 SWG

