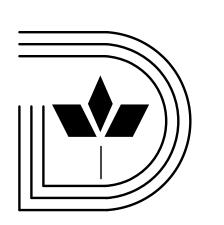
WATER AND WASTEWATER MAIN REPLACEMENTS AT VARIOUS LOCATIONS

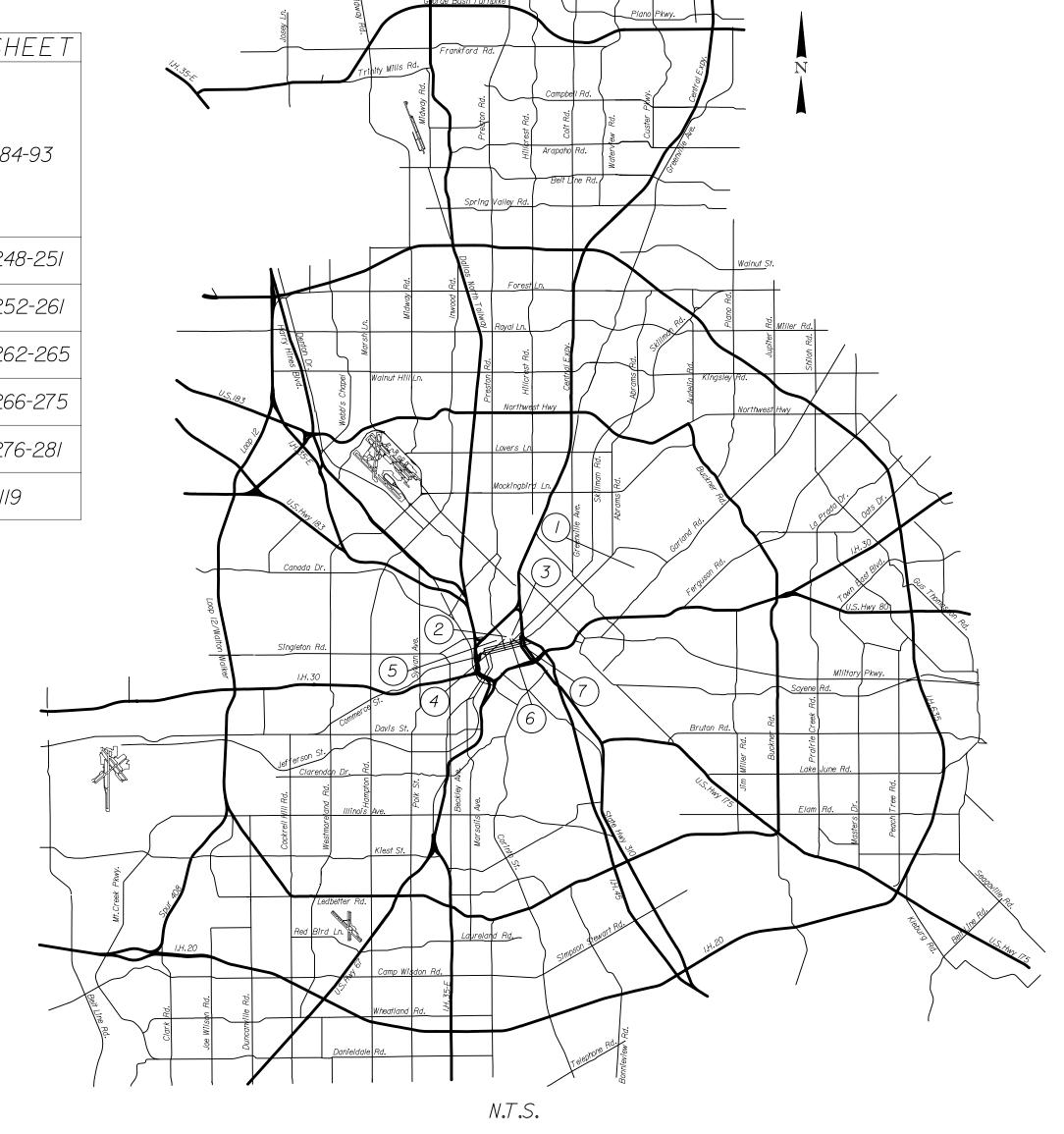


Dallas Water Utilities City Of Dallas, Texas

Contract No.: 21-233/234 AUGUST, 2021

WATER & WASTEWATER SHEET INDEX

mile in the second of the seco								
NO.	PID	LOCATION	DESIGN SHEET					
/.	6460/6461/ 6462/6457	Garland Road From San Francis Avenue to SW Saint Frances Avenue From Garland Road to San Fernando Way San Fernando Way From Saint Frances Avenue to San Rafael Drive San Rafael Drive From San Fernando Way to Garland Road	411Q - 1560 Sht. 84-93					
2.	5322	Akard Street From Ross Avenue to Pacific Avenue	411Q - 1599 Sht.248-251					
3.	5318	Ervay Street From Woodall Rogers Freeway to Pacific Avenue	411Q - 1599 Sht.252-261					
4.	3136	Federal Street From Saint Paul Street to Akard Street	411Q - 1599 Sht.262-265					
5.	5326	Live Oak Steet From Hawkins Street to Saint Paul Street	411Q - 1599 Sht.266-275					
6.	5335	Patterson Street From Griffin Street to Ervay Street	411Q - 1599 Sht.276-281					
7.	53/9	Saint Paul Street From Federal Street to Live Oak Street	411Q - 5050 Sht.119					



GENERAL LEGENDS

GENERAL NOTES

GENERAL STORM DRAINS Exist.Storm Drain Exist.Tee Benchmark (s) Control Point Exist.Storm Manhole Exist.Tapping Sleeve Iron Pin Found Exist.Storm Inlet Exist.Cross Iron Pin Set Prop.Storm Drain Exist.Plug ______ (s)=Exist.Blind Flange Exist.ROW Prop.Storm Manhole --// Prop. Storm Inlet Cut & Plug ______ Prop. ROW Prop. II.25° Fitting ROW Centerline UTILITIES Alley ROW Prop. 22.5° Fitting Exist.Easement Exist.Gas Line Prop. 45° Fitting GProp.Easement Exist.Gas Manhole Prop.90° Fitting Corporation Line Marker Prop. Reducer Exist. Underground Electric Line Exist.Structure/Building _____OF ____ Exist.Overhead Electric Line Prop.Tee ET Exist.Electric Pad Mounted Transformer Prop.Tapping Sleeve Prop. Structure/Building Ø Exist. Electric Power Pole Prop. Plug Exist. Electric Pole Anchor Bank/Slope Line Prop.Blind Flange (E)Exist. Electric Utility Manhole Exist.Gate Valve Flow Line/Stream Line EV Exist.Electric Vault Exist.High/Low Valve Bore Hole TOPOGRAPHIC FEATURES \rightarrow Exist.Telephone Line Exist.Check Valve _____ *T* _____ Exist. Telephone Utility Manhole Exist. Flush Point Tree \bigotimes_{AV} Exist.Telephone Pedestal Exist.Air Valve Exist.Cathodic Test Station Brush, Shrub, Wood ----F0----Exist. Fiber Optic Line Swamp (F)Exist. Fiber Optic Manhole Prop.Gate Valve -----CATV-----Exist.Cable TV Line Mail Box Prop.High/Low Valve Bollards Exist.Cable TV Manhole Prop.Check Valve Irrigation Control Valve WATER MAINS & APPURTENANCES Prop.Flush Point Chain Link/Other Fence Prop. Air Valve Exist.6" Water Main Prop.Cathodic Test Station Wood Fence Exist.8" to 27" Water Main Wrought Iron Fence WASTEWATER MAINS & APPURTENANCES Exist.30" or Larger Water Main Brick Wall Prop.6" Water Main Exist.6" to 27" Wastewater Main Concrete Wall Exist.30" or Larger Wastewater Main Retaining Wall Prop.8" to 27" Water Main *** * * *** Prop. 30" or Larger Water Main Prop.6" to 27" or Larger Wastewater Main Prop. 30" or Larger Wastewater Main Parking Meter Future Water Main \bigcirc Traffic Sign Exist.Water Meter Exist.Wastewater Manhole Traffic Signal Pole Exist.Water Manhole 0 Exist.Wastewater Access Device \circ_{co} Exist.Water Vault Exist.Wastewater Cleanout Street Lamp \bigcirc_{FH} 0 Railroad,Each Track Exist.Fire Hydrant Prop.Wastewater Manhole \circ PAVEMENT Prop.Water Manhole Prop.Wastewater Access Device Exist.Gravel Prop.Water Vault Prop.Wastewater Cleanout Exist. Asphalt Prop.Fire Hydrant Remove & Replace Exist. Manhole Exist.Brick Н Exist.II.25° Fitting Exist.Concrete Exist. 22.5° Fitting Н Exist.45° Fitting Prop. Pavement Exist.90° Fitting

Exist.Reducer

PROJECT CONTACTS

DWU PROJECT MANAGER:

DWU DISTRIBUTION DIVISION:

DWU WASTEWATER COLLECTION DIVISION:

CITY OF DALLAS PW&T - STREET CUTS:

CITY OF DALLAS PW&T - STORMWATER:

CITY OF DALLAS PW&T - TRAFFIC CONTROL:

GENERAL

- I. All work shall be done in accordance with the North Central Texas Council Of Governments (NCTCOG) Standard Specifications for Public Works Construction (Version XX) and City of Dallas Addendum (Month, Year) to these specifications.
- 2. Reference to standard drawings shall mean those shown in the DWU Standard Drawings for Water & Wastewater Construction XX Edition (Month, Year).
- 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.
- 10. This project is subject to the American Iron and Steel (AIS) 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.
- II. Pipeline crossings of all potential waters of the U.S.will be performed using trenchless technology or if open trench, in compliance with Nationwide Permit I2 Utility Line Activities. If project activities within potential waters of the U.S.would not qualify under a nationwide permit, then the appropriate permit from the U.S. Army Corps of Engineers would be required priot to clearing or construction activities.
- 12. Prior to construction activities within any 100-year floodplain, a floodplain permit, or exemption must be obtained from the local Floodplain Administrator (National Flood Insurance Program).
- 13. The project also must comply with the following conditiona:

NO SEPARATE PAY ITEM.

Standard emergency condition for the discovery of cultural resources.

Standard emergency condition for the discovery of threatened and endangered species.

TRAFFIC CONTROL

- I. 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.

- 6. 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.
- 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 9. access locations. Additional signs may be necessary if there is a detour.NO SEPARATE PAY ITEM.

PAVEMENT REPLACEMENT

- I. 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.

TREES AND LANDSCAPING

I. 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.

ADVANCE METERING INFRASTRUCTURE

- I. Caution! Advanced Metering Infrastructure (AMI) Meters in the area.Contractor shall not remove,damage, or otherwise disturb AMI meter endpoint components unless otherwise directed by the DWU Meter Reading Operation (MRO) Technician.
- 2. Contractor shall contact MRO five (5) working days in advance at 214-670-5537 and Email: DWUMRO@dallascityhall.com. If Any AMI Components shall be disconnected, reconnected, removed, or installed.
- 3. Contractor shall install AMI meter lids for water meters 2" and smaller in all Existing AMI and Proposed AMI Areas. Contractor shall also return the existing AMI lids from existing AMI Area to DWU MRO for meters 2" or smaller. NO SEPARATE PAY ITEM.
- 4. 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.
- 6. All Meters in the Proposed and Existing AMI area shall be AMI-Ready Meter As Furnished By DWU. A non AMI-Ready meter shall be replaced with an AMI-Ready meter by DWU.

WATER MAIN AND APPURTENANCES

- I. All 6",8" and I2" water mains shall be PVC C900 (DR-I4) 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.
- IO. 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.

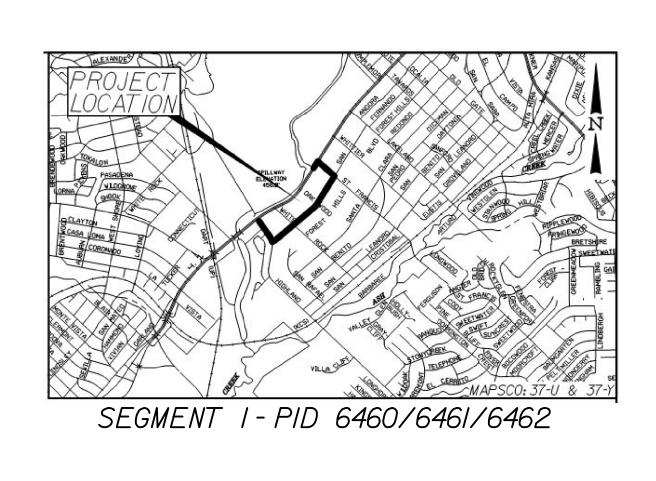
 NO SEPARATE PAY ITEM.
- II. Abandon all water valves on existing mains being killed as per DWU Standard Drawing #219.

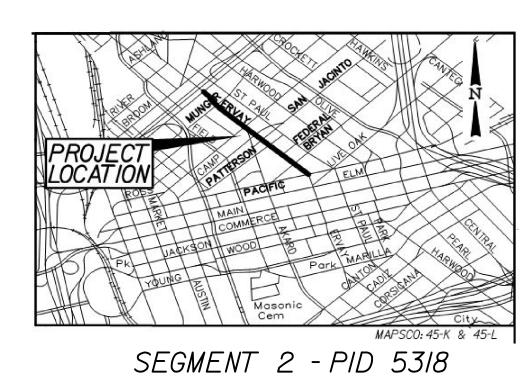
 NO SEPARATE PAY ITEM.
- 12. The Contractor shall coordinate all water main tie-ins with the City of Dallas Inspector.
- 13. The Contractor shall verify the location and number of all existing active water services and construct new services up to the meter prior to killing existing main.
- 14. Water services greater than 30 feet shall be a minimum of one (1) inch in diameter.

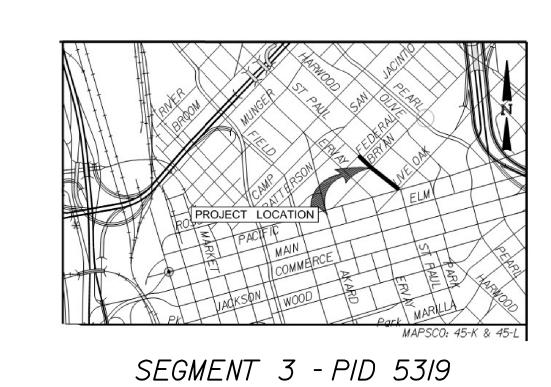
WASTEWATER MAIN AND APPURTENANCES

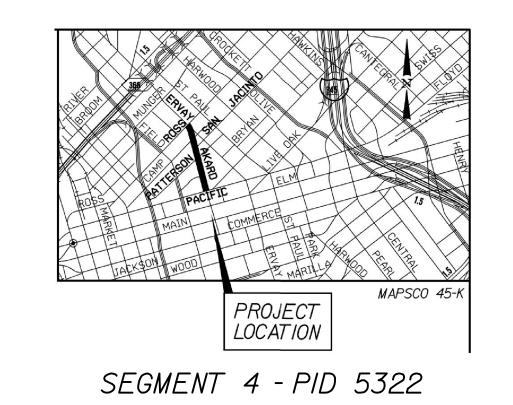
- I. The Contractor shall maintain existing wastewater flow at all times. NO SEPARATE PAY ITEM.
- 2. Abandon all manholes on abandoned wastewater mains.
- 3. The Contractor shall verify the location of all wasterwater laterals and construct new laterals from the wastewater main to the property line with 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.

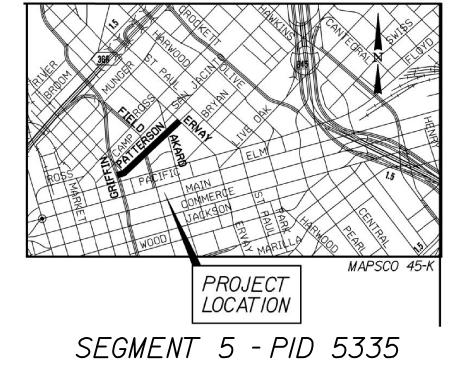
24 Pacheco Koch DALLAS, TX 75231 PH. 972.235.3031 TX REG. ENGINEERING FIRM F-14439 GENERAL NOTES DALLAS WATER UTILITIES CITY OF DALLAS, TEXAS DRAWN DATE SHEET DESIGN FILE *NUMBER* 83 1560 AUG 2021 TAHKCM

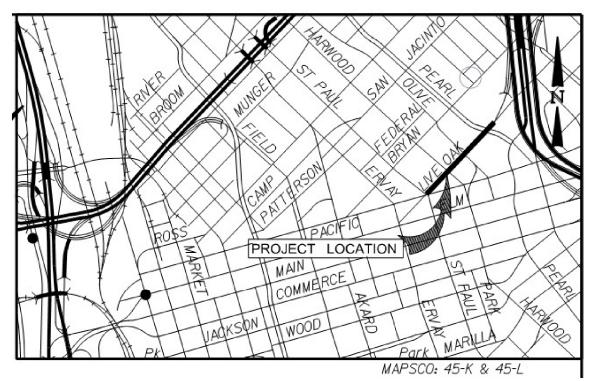


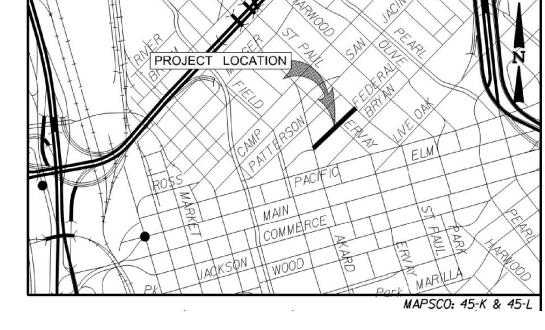












SEGMENT 6 - PID 5326

SEGMENT 7 - PID 3136

	Pacheco Koch 7557 RAMBLER ROAD. SUITE 1400 DALLAS, TX 75231 PH. 972.235.3031 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-101938-05							
LOCATOR MAPS								
CONTRACT NO.21-233/234								
DALLAS WATER UTILITIES								
CITY OF DALLAS, TEXAS								
DESIG	GN DRAWN	DATE	FILE	NUMBER	SHEET			
PK	PK	AUG 2019	411Q	1599	247			

