



CITY COUNCIL AGENDA ITEM BRIEFING SHEET

Council Date: December 12, 2023	Department: Public Works	Presented By: Gretchen Vazquez
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AGENDA ITEM: PROJECT UPDATE

2022 Street Improvements Project

Engineer: Jacob & Martin, LLC

Contractor: XIT Paving & Construction, Inc.

Original Contract Amount: \$6,419,677

Project Description: The project consists of removing and replacing approximately 36,500 square yards of existing asphalt pavement with concrete paving and replacing approximately 18,600 square yards of asphalt pavement with 2" hot-mix asphaltic concrete (HMAC) pavement. The project also includes roadside ditch grading and new bike lanes.

Latest project update:

- **Crown Road** – The road work has been completed. The pavement markings have been installed. All disturbed areas have been hydromulched. The contractor continues to water and maintain new planting. AT&T is working on relocating their lines in front of 69 Crown Road. Once these lines are relocated, the contractor can finish up grading a small area of roadside ditch.
- **Ranch House Road** – The road work has been completed. The pavement markings have been installed. All disturbed areas have been hydromulched. Contractor continues to water and maintain new planting.
- **King's Gate Road** – The road work has been completed. The pavement markings have been installed. All disturbed areas have been hydromulched. Contractor continues to water and maintain new planting.
- **Trinity Drive, Trinity Court, and Sam Bass Court** (Asphalt Roads - Group 1) – The road work has been completed. The contractor is working on repairing the mailboxes and irrigation systems damaged during construction.
- **Crested Butte Court, Ridge Haven Court, Pleasant Court, and Old Ford Road** (Asphalt Roads - Group 2) – The road work has been completed. The contractor continues to work on the roadside ditches. Concrete headwalls at culvert crossings will be installed in the coming weeks.
- **Sam Bass Road** – The reconstruction of Sam Bass Road, Phase I from Ranch House to Sam Bass Court has started. The road work on the eastbound lane has been completed, including the removal and replacement of the drive approaches. Contractor has switched traffic and started construction on the westbound lane. Sam Bass Road (Phase I) is expected to be completed by mid-January, weather permitting.

In the next 30 days:

- **Sam Bass Road** – The contractor will continue to work on the subgrade prep and setting up the concrete paving forms to pour concrete.
- **Trinity Drive, Trinity Court, and Sam Bass Court** (Asphalt Roads - Group 1) – Install hydromulch seeding.
- **Crested Butte Court, Ridge Haven Court, Pleasant Court, and Old Ford Road** (Asphalt Roads - Group 2) – Finish up grading the roadside ditches and install hydromulch seeding.

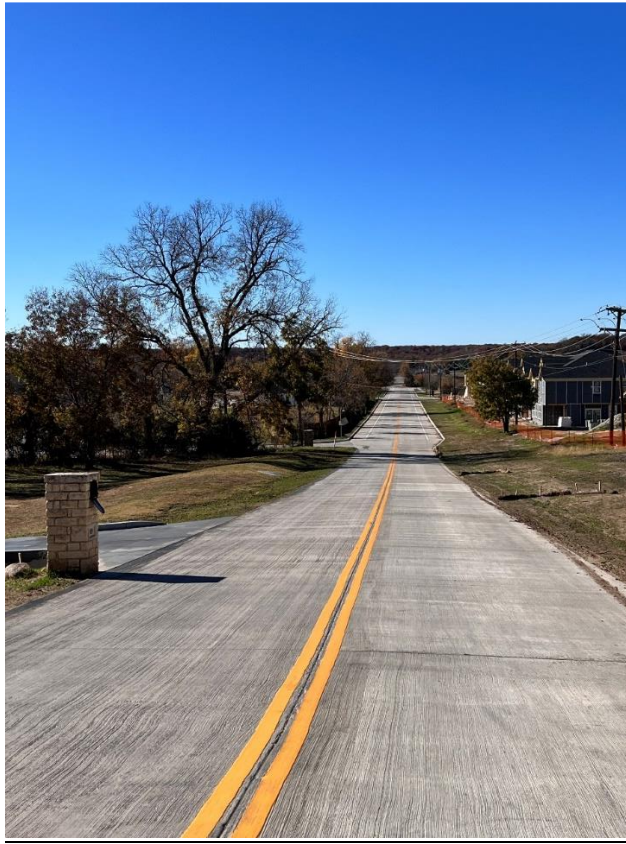
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Crown Road looking south



Ranch House Road looking west



King's Gate Road looking south



Sam Bass Road looking west

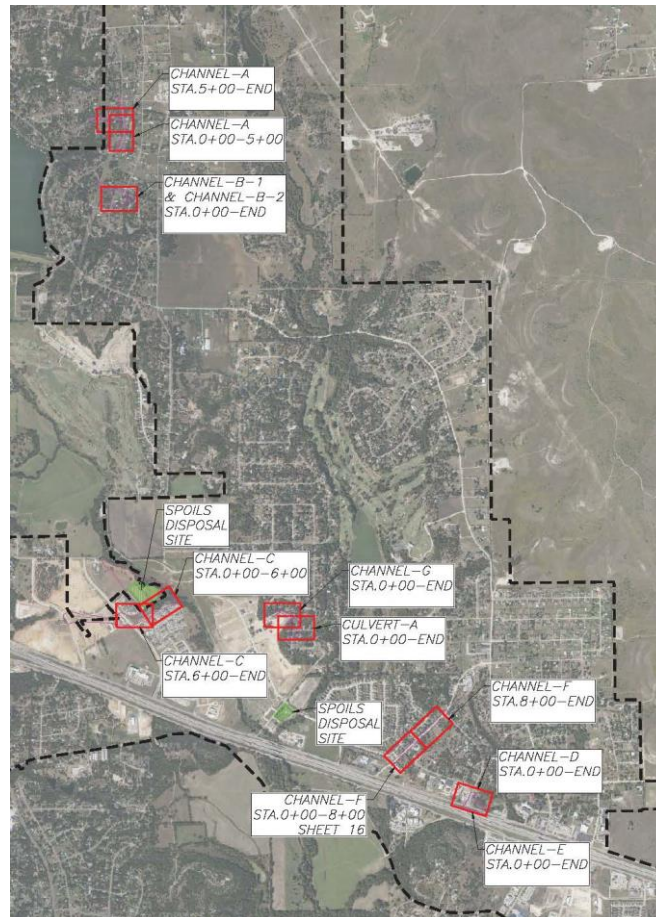
2022 Drainage Improvements, Phase II

Engineer: Jacob and Martin, LLC

Contractor: JRM Construction Services, LLC

Original Contract Amount: \$1,018,595

Project Description: The project consists of installing new culverts, grading approximately 23,520 square yards of drainage ditch, installing erosion protection measures to disturbed areas and any associated work. The additive alternate consists of furnishing and installing a third 48" reinforced concrete pipe at El Chico Trail and replacing the existing Surrey Lane culvert with a new 2-barrel, 4' x 8' box culvert.



Project Location Map

Latest project update:

- **Channel A** – Ditch grading and culvert improvements along Vista Drive and Coronado Court have been completed.
- **Channel B-1 and Channel B-2** – Ditch grading and culvert improvements along Live Oak Road and Cook Court are substantially complete. There is an existing water line that conflicts with the proposed work. City forces will be lowering the water line (where it crosses the bar ditch) in the coming weeks.
- **Channel C** – Channel improvements between Crown Pointe Boulevard and the Clear Fork of the Trinity have been completed. Disturbed areas have been hydromulched. Erosion protection measures (rock riprap) at the outfall of existing storm sewer headwalls have been installed.
- **Channel D** – Roadside ditch improvements on Chuckwagon Trail and IH20 WB Frontage have been completed.
- **Channel E** – Channel improvements along the creek next to the East Parker County Chamber of Commerce and north of IH20 have been completed. Disturbed areas have been hydromulched.

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- **Channel G** – The contractor continues to work on the channel improvements behind the residential lots on E. Furlong. A grade “check” must be completed before installing sod.
- **Culvert A** – Ditch grading and culvert improvements on Castlemount Street have started.

In the next 30 days:

- **Channel A** – Install hydromulch seeding.
- **Channel B-1 and Channel B-2** –Lower the existing water line and finish up grading roadside ditch. Install hydromulch seeding.
- **Channel G** –Install sod along the channel.
- **Culvert upsizing** at El Chico Trail and Surrey Lane. The contractor will install one additional 48" reinforced concrete pipe at El Chico and replace the existing Surrey Lane culvert with a new 2-barrel, 4' x 8' box culvert.



Channel A looking southwest



Channel B-1 looking south



Channel B-2 looking southeast



Channel C looking east



Channel C looking southwest

Wastewater Treatment Plant Effluent Line

Engineer: Jacob and Martin, LLC

Contractor: B&L Construction Company

Original Contract Amount: \$1,383,285

Project Description: The project consists of furnishing and installing approximately 5,200 linear feet of 10-inch HDPE effluent force main, 1,980 linear feet of 12-inch HDPE effluent force main, and effluent lift station and associated appurtenances.

Latest Project Updates:

- The 10” wastewater effluent line has been installed.
- The contractor is finishing up the lift station.

In the next 30 days:

- The date of completion of all work is January 14, 2024.

Wastewater Treatment Plant Improvements

Engineer: Jacob and Martin, LLC

Contractor: Gracon Construction, Inc

Original Contract Amount: \$14,547,435.00

Project Description: The project consists of construction of a new 0.75 MGD wastewater treatment plant and all associated appurtenances.

Latest Project Updates:

- Bid Opening was held on October 30, 2023. Four (4) bids were received with the lowest bid being from Gracon Construction, Inc.
- The City Council awarded a construction contract to Gracon Construction, Inc. for the new wastewater treatment plant at the November 14, 2023 City Council meeting.

In the next 30 days:

- Waiting for the Texas Water Development Board to issue the Notice to Proceed.
- Schedule a pre-construction meeting.

King’s Gate Road Bridge Replacement

Engineer: Bartlett & West (Texas Department of Transportation’s Consultant)

Contractor: To be determined

Total Project Direct Cost: \$1,844,122

Project Description: The proposed work is a partnership between the City of Willow Park and the Texas Department of Transportation (TxDOT) to remove and replace the King’s Gate Road bridge over Clear Fork Trinity River. Bridge length and width is approximately 109’ long and 44’ wide, (2 - 12’ lanes, with 2 - 8’ shoulders, and 1’ width for each bridge rail). The project also includes the approach roadways approximately 200’ south of the bridge to the IH 20 frontage road and 100’ north of the bridge. The approaches are to be constructed in concrete.

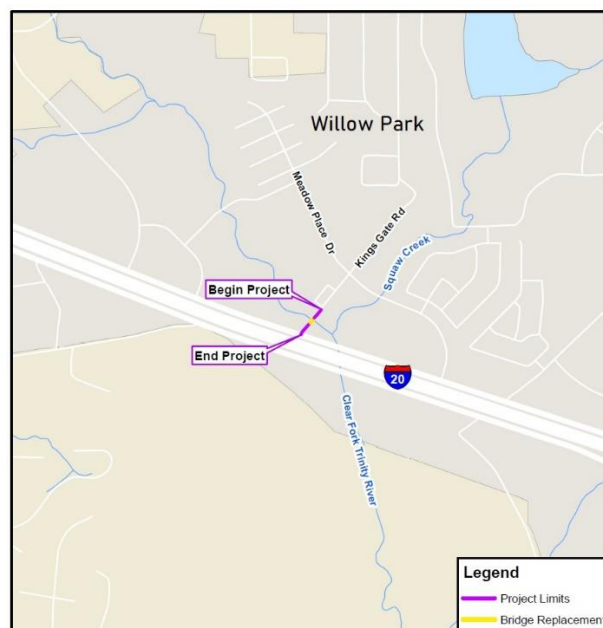
Latest Project Updates:

- The city adopted a Resolution to amend the Advance Funding Agreement (AFA). The AFA was amended to reflect the additional width of the new structure to match the City of Willow Park roadway (King’s Gate Road).
- The let date for the Kings Gate Road Bridge Replacement was pushed back to **August 2025**.

- Project is in 60% design. The 60% plans will not be completed until January 2024. TxDOT's consultant is working diligently to try and complete these sooner.
- The environmental documentation has started. TxDOT is managing the environmental process for the project. Environmental clearance is required prior to letting.
- *Right-of-way Acquisition* – The city received the signed and sealed right-of-way parcel documents for the three (3) parcels needed on the King's Gate Bridge replacement project. Right-of-way acquisition is on hold until all parties involved with this project have a better understanding of where the existing utilities are located and on whether we will need additional right-of-way to accommodate these utilities.
- *Utility Relocations* – TxDOT has prepared a utility conflict matrix for the project to determine the utilities that need to be relocated. These utilities will need to be relocated prior to letting. Per the utility conflict matrix, the following utilities appear to be in conflict and will need to be relocated:
 - Texas Gas - attached to the bridge. TxDOT does not allow any utility that is under pressure to be attached to the bridge.
 - Texas Gas – Cathodic Cable – attached to the bridge – to be relocated.
 - Overhead Utility Pole that is too close to the bridge is being investigated to determine if this needs to be relocated to meet the required 10-foot limit between the bridge and pole. TxDOT's consultant Bartlett & West is verifying that the proposed right-of-way parcel on the west side closest to the I-20 frontage road is sufficient to relocate the pole or if the parcel needs to be revised to acquire additional right-of-way.
 - The City of Weatherford Raw Water Line 36" – TxDOT's sub Pape-Dawson is to pothole this line to verify the depth and location and determine if line is not in conflict with this project. This may or may not need to be relocated.
 - City of Willow Park – City staff to locate and pothole the existing 12" waterline to determine if in conflict with the required drill shafts for each abutment.

In the coming months:

- Right-of-way acquisition with utility relocations to begin soon afterwards.
- Coordinate with the franchise utility companies regarding the utility relocation work.



Project Location Map

Willow Park City Hall Parking Lot

Engineer: Westwood Professional Services, Inc.

Contractor: To be determined

Professional Services Agreement Amount: \$72,600.00

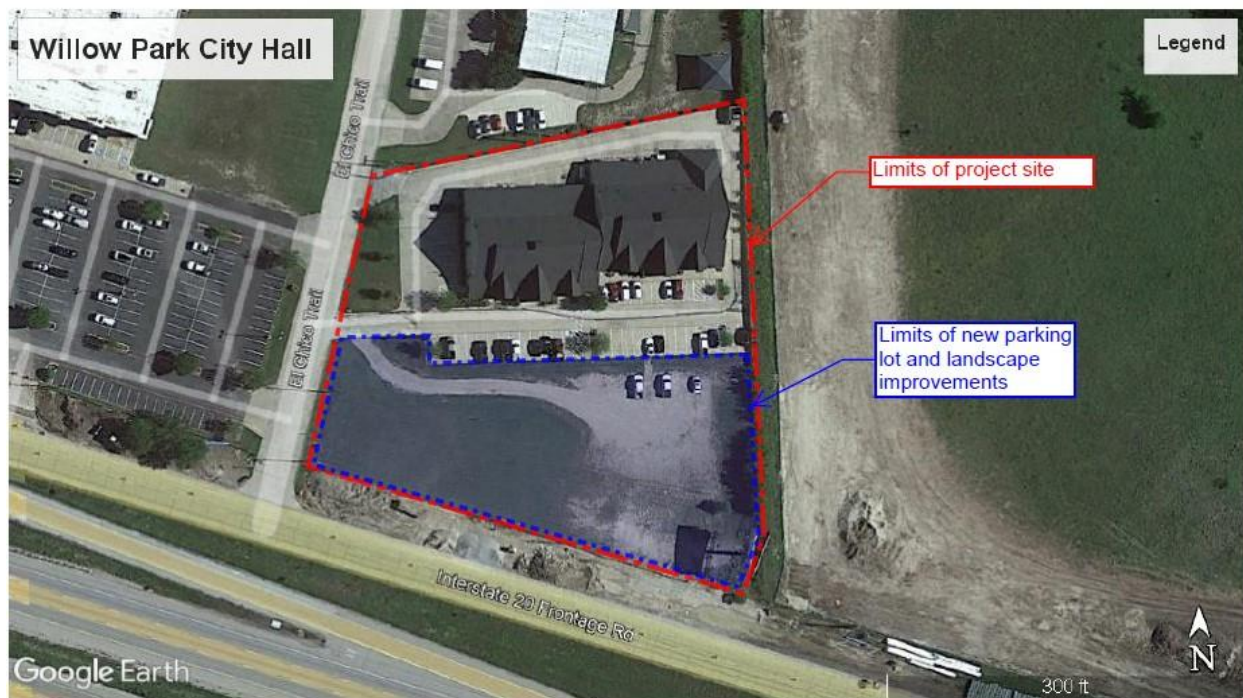
Project Description: The project consists of a parking lot addition, for approximately 45 new spaces, and landscape enhancement areas, which may include a small plaza, green space and enhanced plantings for Willow Park's recently purchased City Hall building. The site is approximately 2.8 acres, including the existing building and looped drive, located at 120 El Chico Trail.

Latest Project Updates:

- Westwood Professional Services, Inc. has submitted a proposal to provide engineering and landscape architecture services relating to the referenced project. Westwood has also included 'if requested' fees for utilities, electrical & structural engineering, if the city selects an option that includes lighting improvements or a water feature.

In the next 30 days:

- Approve a Professional Services Agreement with Westwood for the Willow Park City Hall Parking Lot project.
- Schedule a pre-design project kickoff meeting with city staff to confirm and clarify scope, understand city's objectives, and ensure economical and functional designs that meet city requirements.



Project Location Map

Sam Bass Drainage

As part of the City's on-going efforts to reduce flooding and present a safer environment for residents, drainage improvements to the earthen channel between Sam Bass Road and Stagecoach Trail were completed this summer. This work consisted of expanding the channel and increasing its capacity to convey stormwater. In addition to the channel improvements, the city installed 2-24" culverts under Sam Bass Road. By upsizing the existing 18" pipes to 24" pipes, there will be a greater capacity for storm water to flow through the culverts and be discharged into the newly graded and improved channel. The as-built channel alignment provides a feasible and cost-effective approach to improving the drainage issues in the Trinity Estates subdivision.

At City Council direction, staff contacted the gas company to inquire about the scope and cost to accommodate the drainage work over the Magellan pipeline. The items listed below will impact the timing and cost of any drainage accommodation project:

1. **Public Safety Building** – To lower in place, remove and replace the rectifier and repair the ground bed would be roughly \$250,000 - \$350,000, this is without repairing the road. The parking lot conflict prevents this option. The Public Safety Building parking lot constrains the workspace options on the south side of Stagecoach Trail.
2. **Cathodic Protection Deep Well Ground Bed** – The pipeline cathodic protection system on the north side of Stagecoach Trail will likely require modification associated with any accommodation.
3. **Stagecoach Trail** – In order to lower the pipeline under the drainage area north of Stagecoach Trail the paving of the road will likely need to be excavated to accommodate pipeline lowering.
 - a. Traffic control along Stagecoach Trail next to the Public Safety Building may create ingress / egress traffic conflicts with the pipeline construction.
4. **Trench Length** – the elasticity of the pipeline will control the required trench length to achieve the needed depth of cover for the pipeline. This requires accommodation from both the city on the south side and the church on the north side of Stagecoach Trail.
5. **Project Duration** – A line lowering project of this magnitude will likely take a minimum of two weeks and a maximum of eight weeks depending on the scope of the work performed.
6. **Project Costs** – Generally speaking, the gas company estimates the cost of accommodation to be a minimum of \$500,000 plus roadwork costs. The reasons are that Magellan would be required to put in sags and new pipe. This still includes cutting open the road, moving the poles, all of the cathodic issues, and shut down the pipeline and drain it.

