

September 3, 2020 Virtual Information Meeting









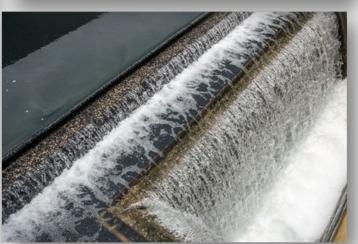
OVERVIEW

- NTMWD Services and Communities Served
- Purpose of Meeting
- Project Benefits to McKinney
- Project Information and Route Alignment
- Questions











HISTORY OF NTMWD

10 Original Member Cities

Farmersville, Forney, Garland, McKinney, Mesquite, Plano, Princeton, Rockwall, Royse City, and Wylie

"We decided we were all in this together. We couldn't do it separately."

- 1951 Created by Texas Legislature to Provide Water Service
- 1956 Began Providing Treated WATER to Member Cities
- 1970s Expanded to WASTEWATER Service
- 1973 Richardson added as Member City
- 1980s Expanded to SOLID WASTE Service
- 1998 Allen added as Member City
- 2001 Frisco added as Member City



REGIONAL PROVIDER: WATER, WASTEWATER, SOLID WASTE



BY THE NUMBERS

DID YOU KNOW?



Service area of 2,200 square miles in 10 counties

Serving 1.8 million people in one of the fastest-growing regions in the country



MAJOR RAW & TREATED WATER PUMP STATIONS



WATER TREATMENT PLANTS 806+ MGD Capacity (million gallons/day)



WATER TRANSMISSION PIPELINES



LARGE-DIAMETER WASTEWATER PIPELINES



WASTEWATER
TREATMENT PLANTS



WASTEWATER TREATMENT CAPACITY MGD (million gallons/day)

TRANSFER STATIONS

up to 3,295 tons of solid waste/day

1 million+

tons/year accepted at landfill



Rev. Feb. 2020

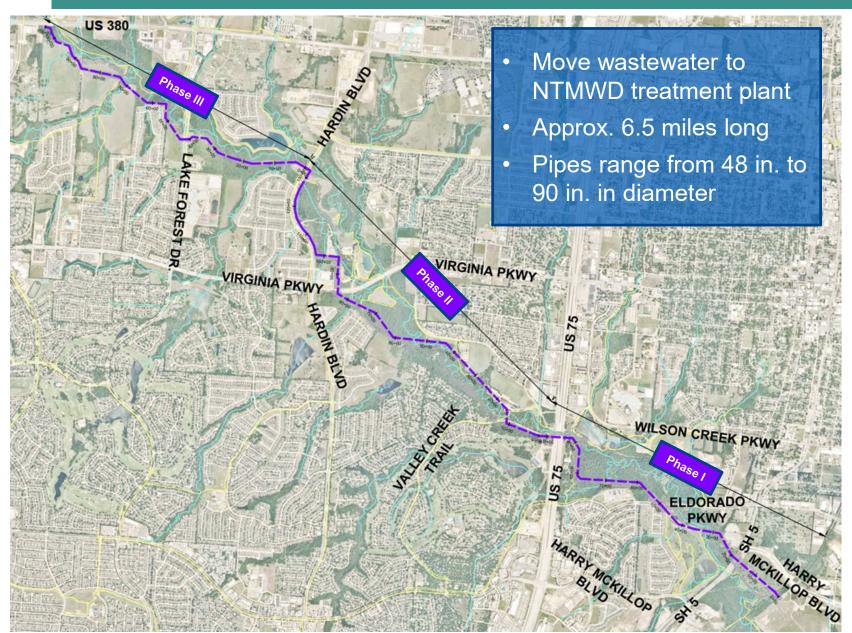


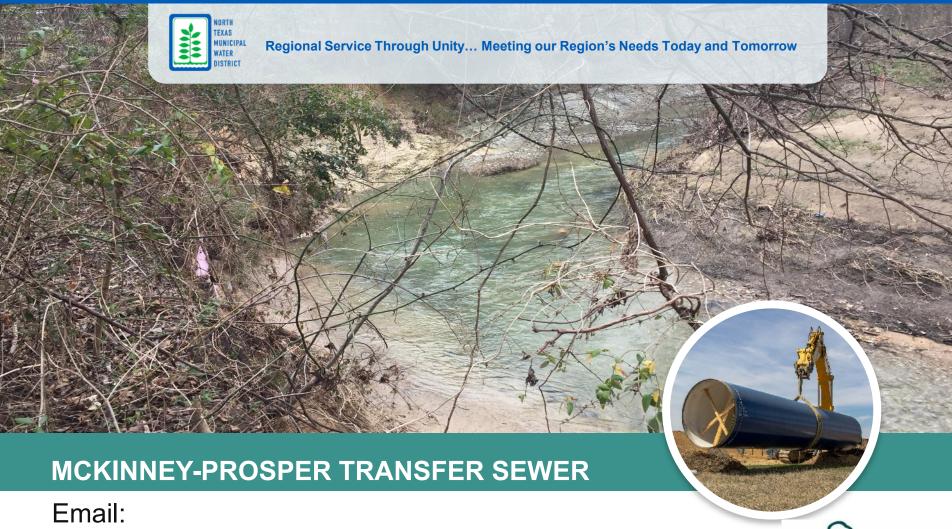






MCKINNEY-PROSPER TRANSFER SEWER OVERALL ALIGNMENT





Projects@ntmwd.com

Website:

www.ntmwd.com/Projects Select McKinney-Prosper Transfer Sewer Pipeline













BACKGROUND

- Flow model projections identified the need for additional capacity in this corridor to transport City of McKinney and Prosper flows to the treatment facility.
- Project expanded to avoid need for future parallel pipe.
- Multiple corridors were examined
- Alignment generally paralleling Wilson Creek was determined to be the only feasible option based on the following criteria:
 - Developed areas
 - Critical utilities
 - Floodplain & U.S. Corps of Engineers (USACE) Jurisdiction
 - Topology
 - Maintainability







PROJECT OVERVIEW

- Install gravity-flow pipeline to provide wastewater capacity for projected build-out growth in McKinney and Prosper
- Approx. 6.5 miles of wastewater pipeline ranging from 48-inches to 90-inches in diameter
- From US-380 to the Wilson Creek Lift Station at the old City of McKinney landfill
- To serve long-term needs of McKinney and avoid future projects in the Wilson Creek corridor







TIMELINE

DESIGN

• Summer 2017 – Summer 2021

PHASE I CONSTRUCTION

• Spring 2021 – Summer 2022

PHASE II CONSTRUCTION

• Fall 2021 – Winter 2022

PHASE III CONSTRUCTION

• Fall 2022 – Fall 2023







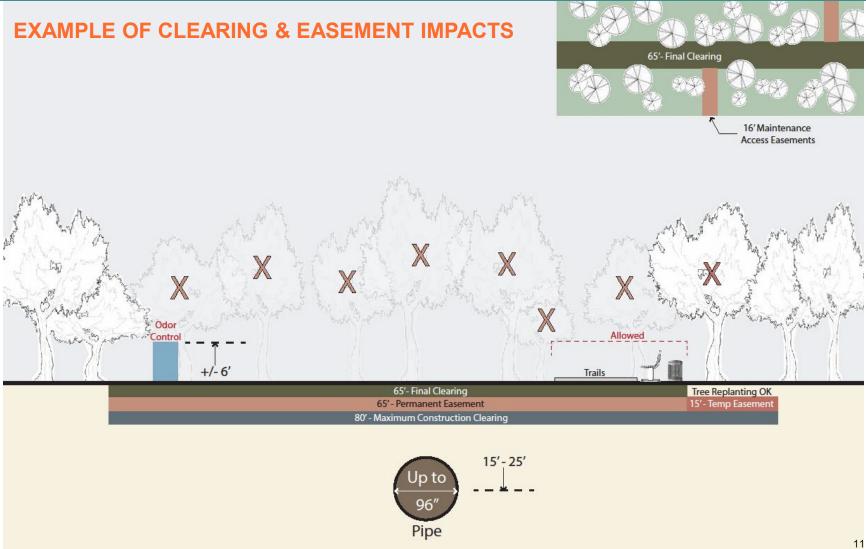
COMMITMENTS:

- Minimize impact on trees
 - Tree survey performed to identify trees based on trunk size and species.
 - Alignment shifted to minimize impact to trees
- Maintain tree buffer between proposed alignment location/existing land uses
 - 150-foot buffer behind Malvern Elementary, McKinney Community Center, and Mountain Creek Drive.
- Avoid sensitive park areas and phase construction with seasonal park usage
 - Route minimizes disruption through Disc Golf Course, avoids Bonnie Wenk Park, and aligns with Gray Branch Park Master Plan.
- Trenchless construction methods underneath all roadways
 - Tunnel 8 road crossings to avoid traffic impacts
- Alignment located on public use land where possible
 - The majority of anticipated easements are City of McKinney properties





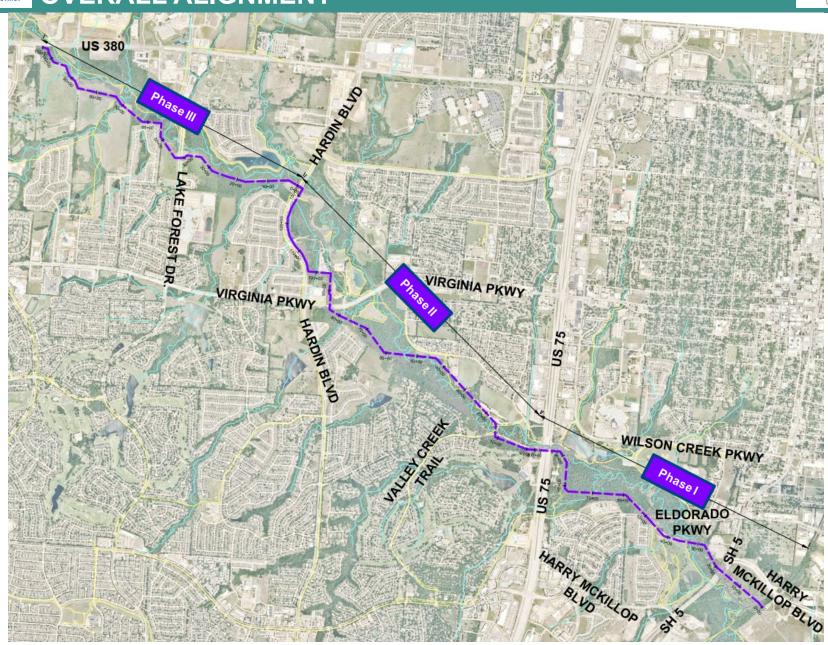






MCKINNEY-PROSPER TRANSFER SEWER OVERALL ALIGNMENT



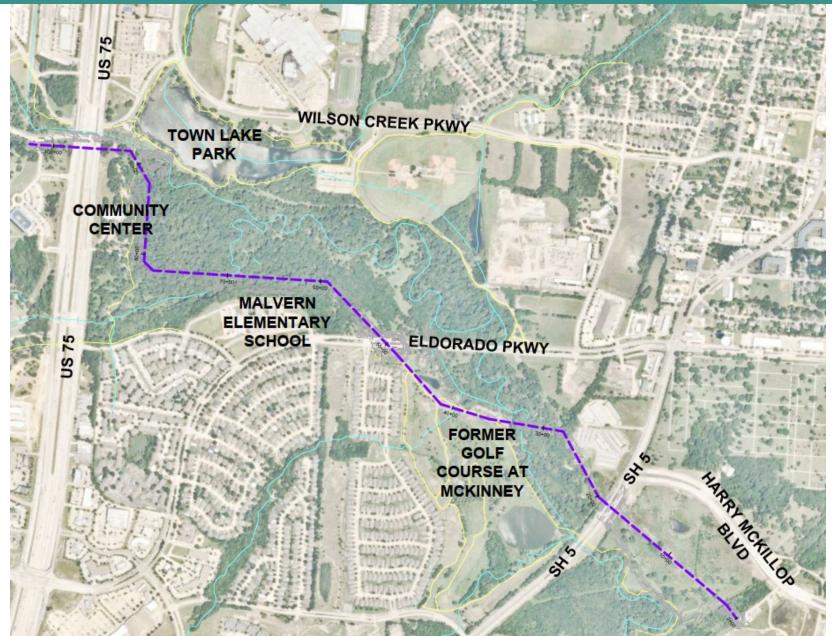






PHASE I ALIGNMENT Estimated Start of Construction: Spring 2021

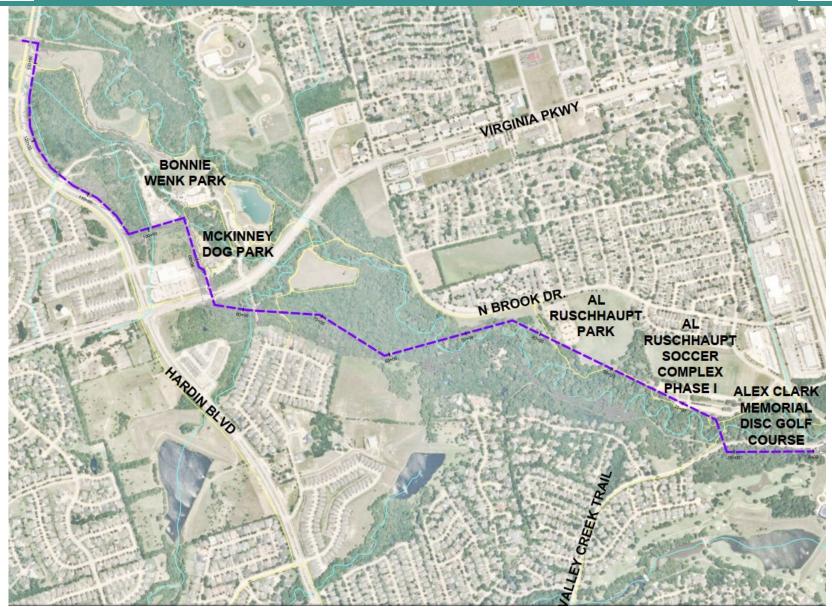






PHASE II ALIGNMENT Estimated Start of Construction: Fall 2021

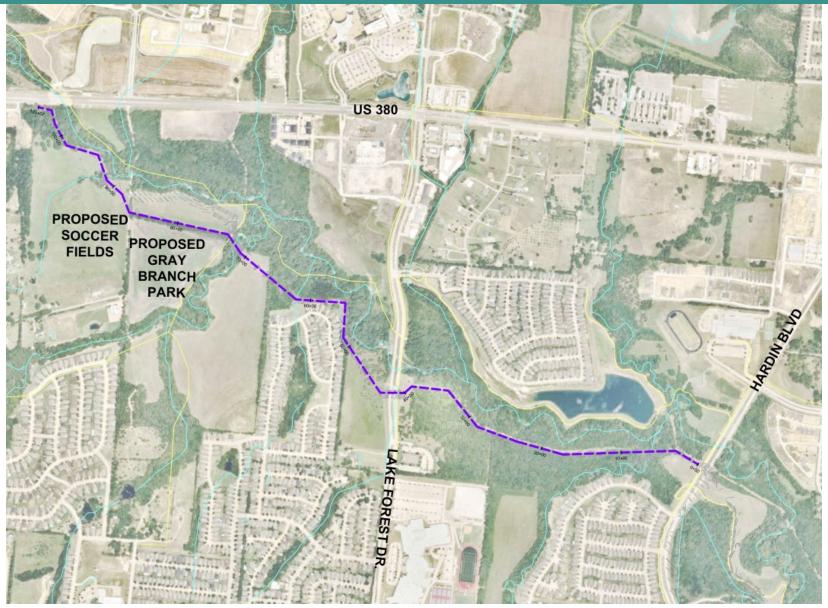






PHASE III ALIGNMENT Estimated Start of Construction: Fall 2022

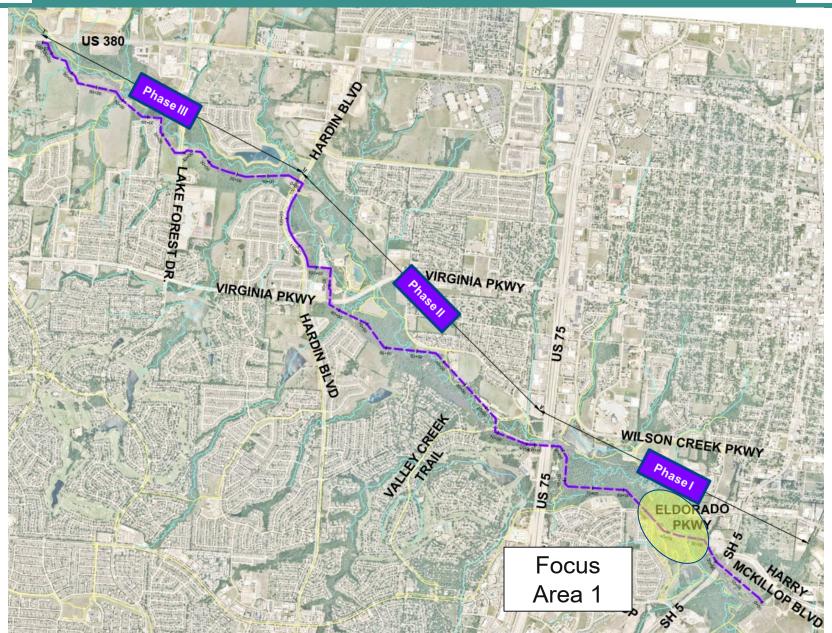






MCKINNEY-PROSPER TRANSFER SEWER Focus Area 1 – Phase I Construction

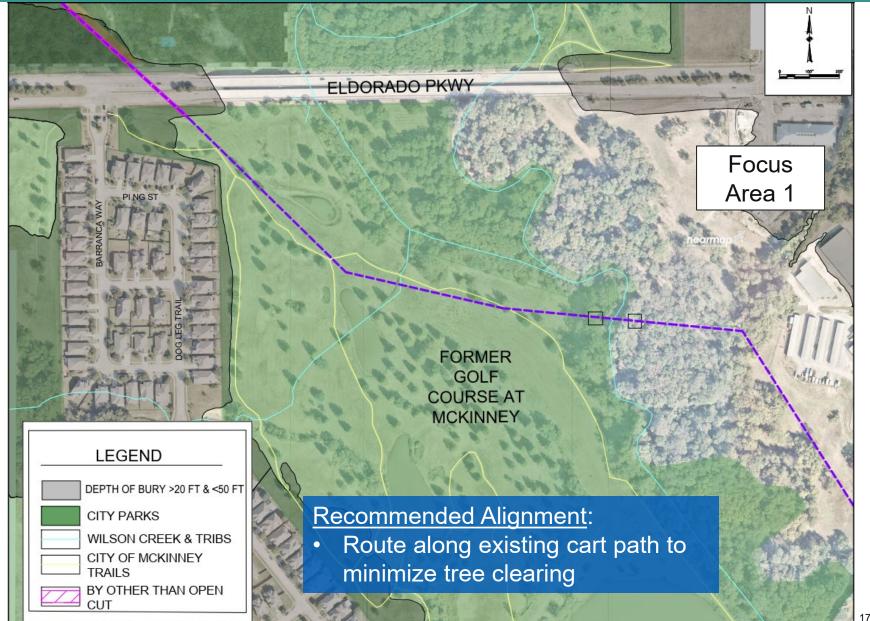






FOCUS AREA 1 – PHASE I CONSTRUCTION Former Golf Course & Residences Of Barranca Way

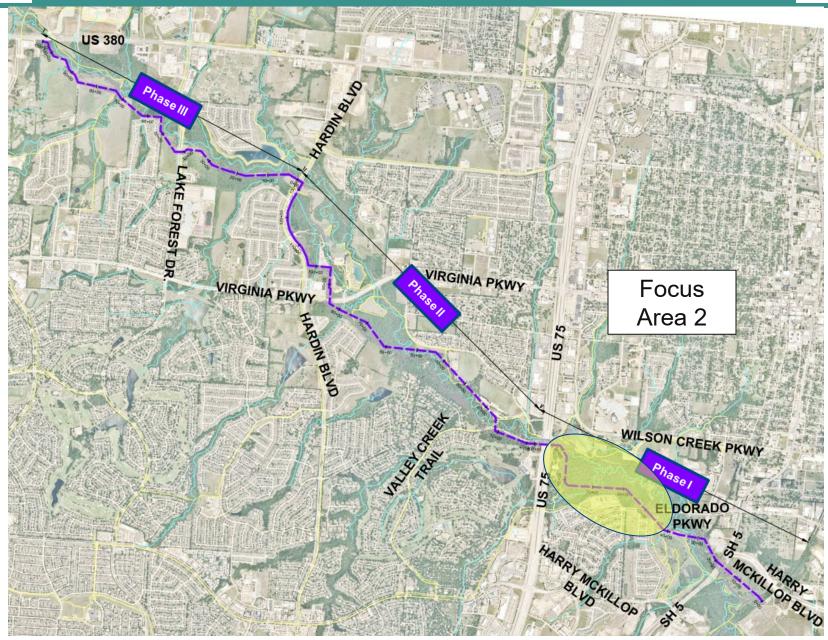






MCKINNEY-PROSPER TRANSFER SEWER Focus Area 2 – Phase I Construction



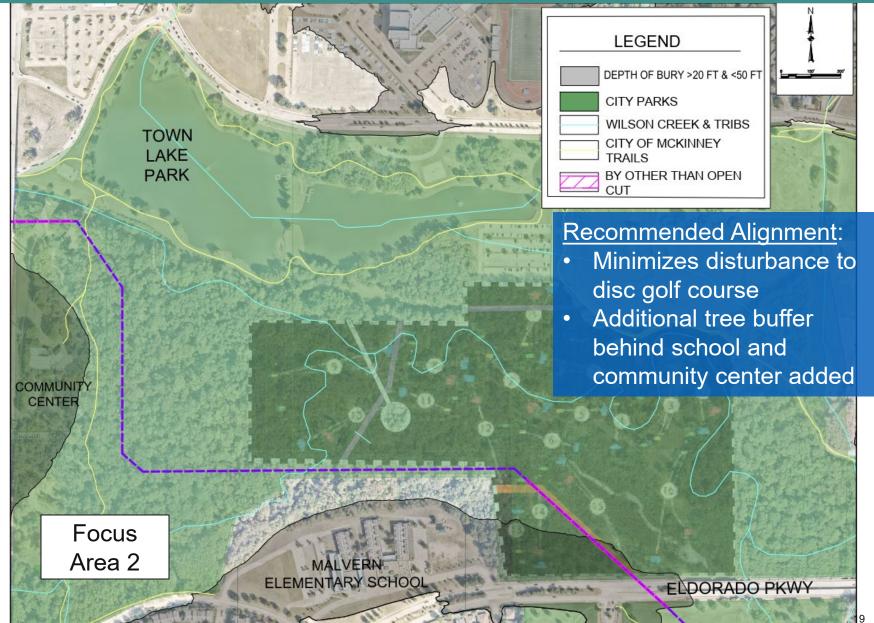




FOCUS AREA 2 – PHASE I CONSTRUCTION



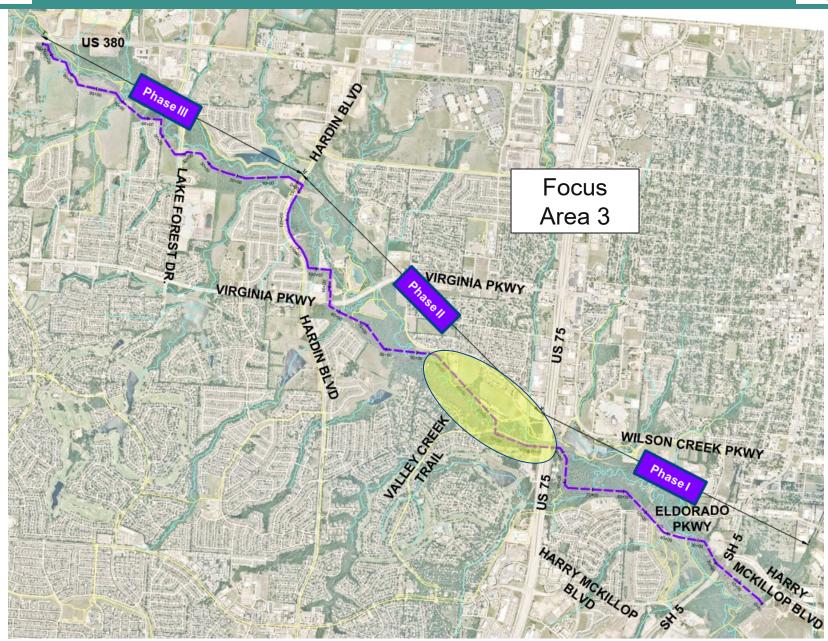






MCKINNEY-PROSPER TRANSFER SEWER Focus Area 3 – Phase II Construction

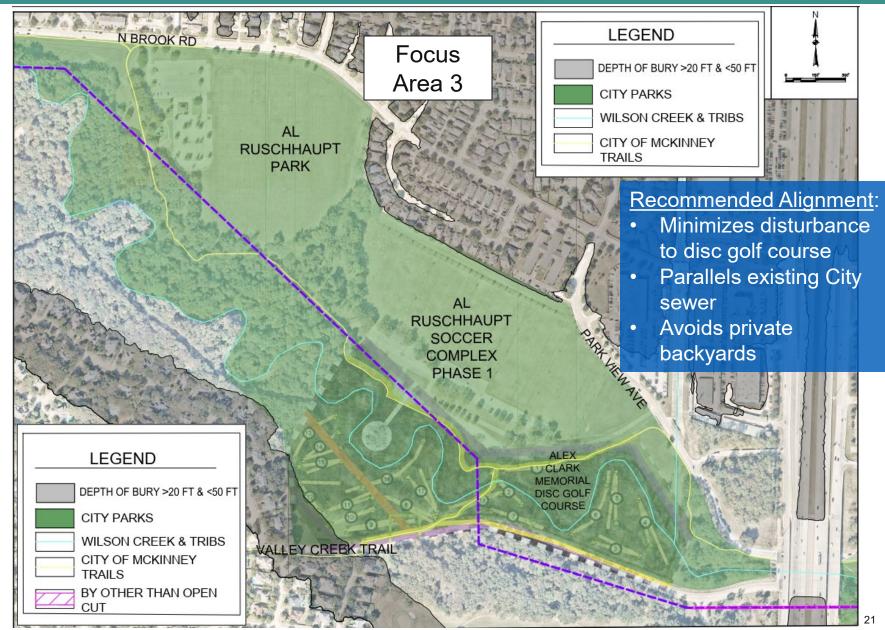






FOCUS AREA 3 – PHASE II CONSTRUCTION Alex Clark Memorial Disc Golf Course & Al Ruschhaupt Park

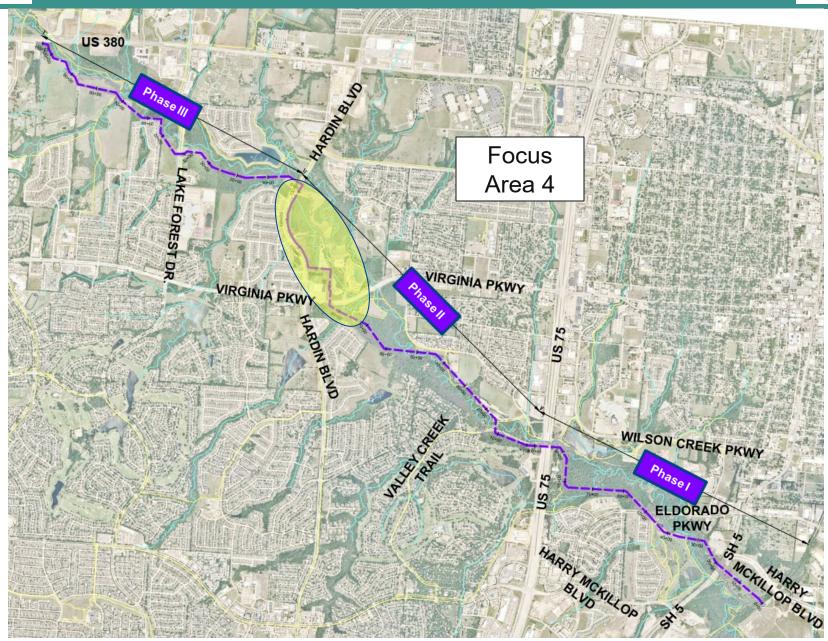






MCKINNEY-PROSPER TRANSFER SEWER Focus Area 4 – Phase II Construction

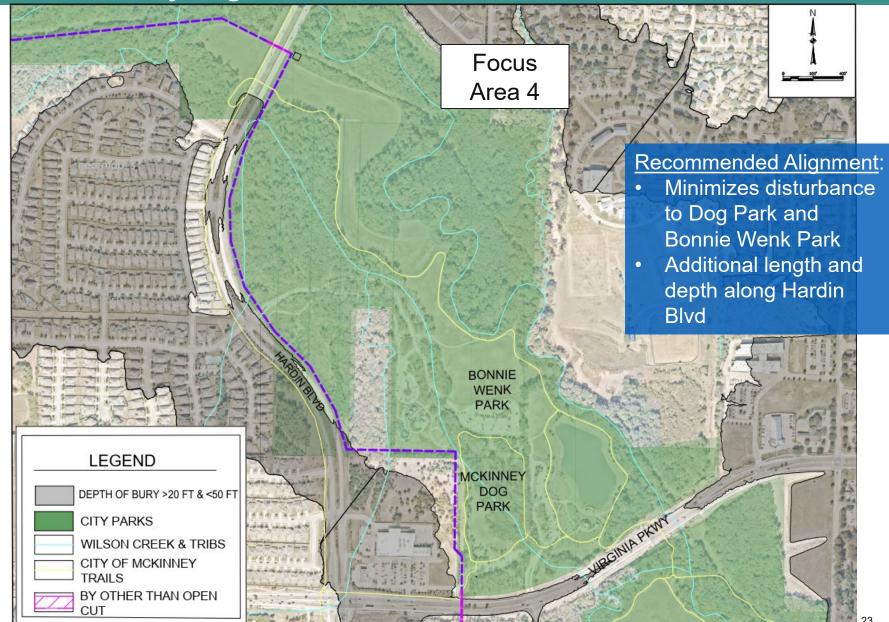






FOCUS AREA 4 – PHASE II CONSTRUCTION McKinney Dog Park & Bonnie Wenk Park

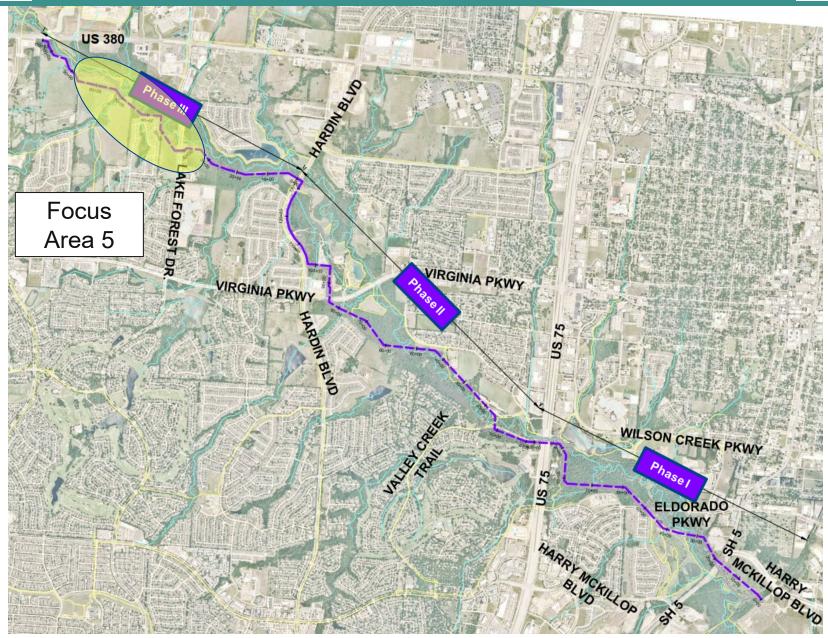






MCKINNEY-PROSPER TRANSFER SEWER Focus Area 5 – Phase III Construction

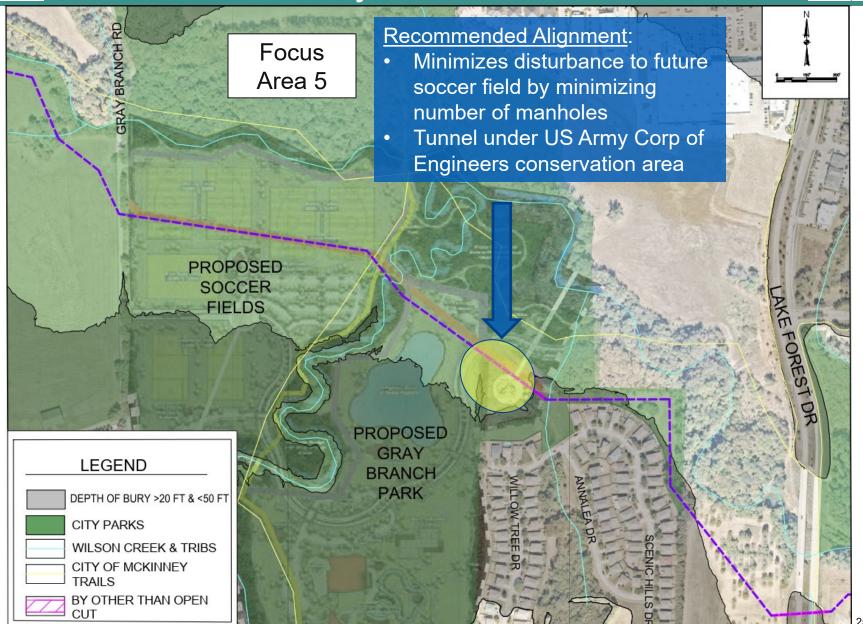






FOCUS AREA 5 – PHASE III CONSTRUCTION Scenic Hills Drive & Gray Branch Park





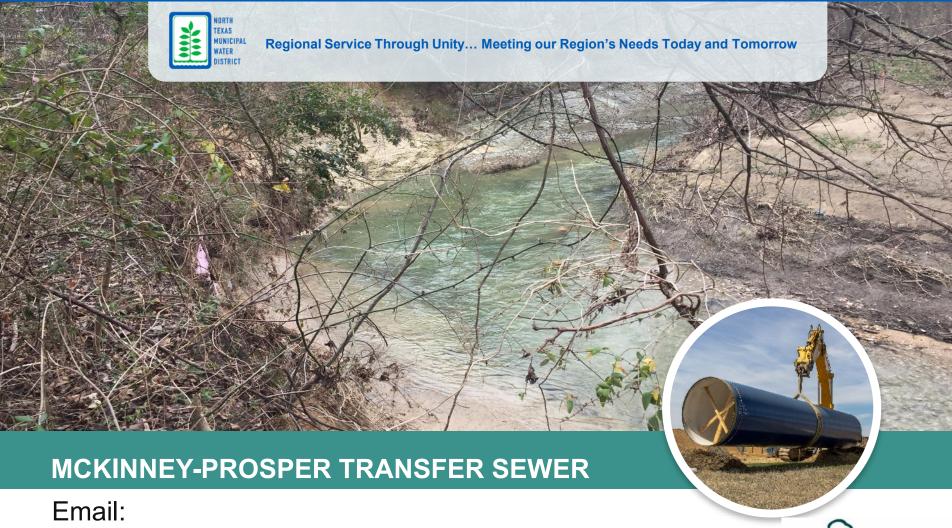






CONCLUSION

- Serves long term needs of McKinney and avoids future projects in the Wilson Creek corridor
- Restores existing City sewer capacity for fast-growing portion of McKinney and helps reduce potential for overflows
- Provides opportunity to remove above-ground creek crossings in City's system



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MCKINNEY-PROSPER TRANSFER SEWER TYPICAL CONSTRUCTION CROSS SECTION



