



SH 5 Utility Relocations CIP Project CO1633

City Council Regular Meeting

December 3, 2019

Development Services

Nick Ataie, PE – Engineering CIP Manager

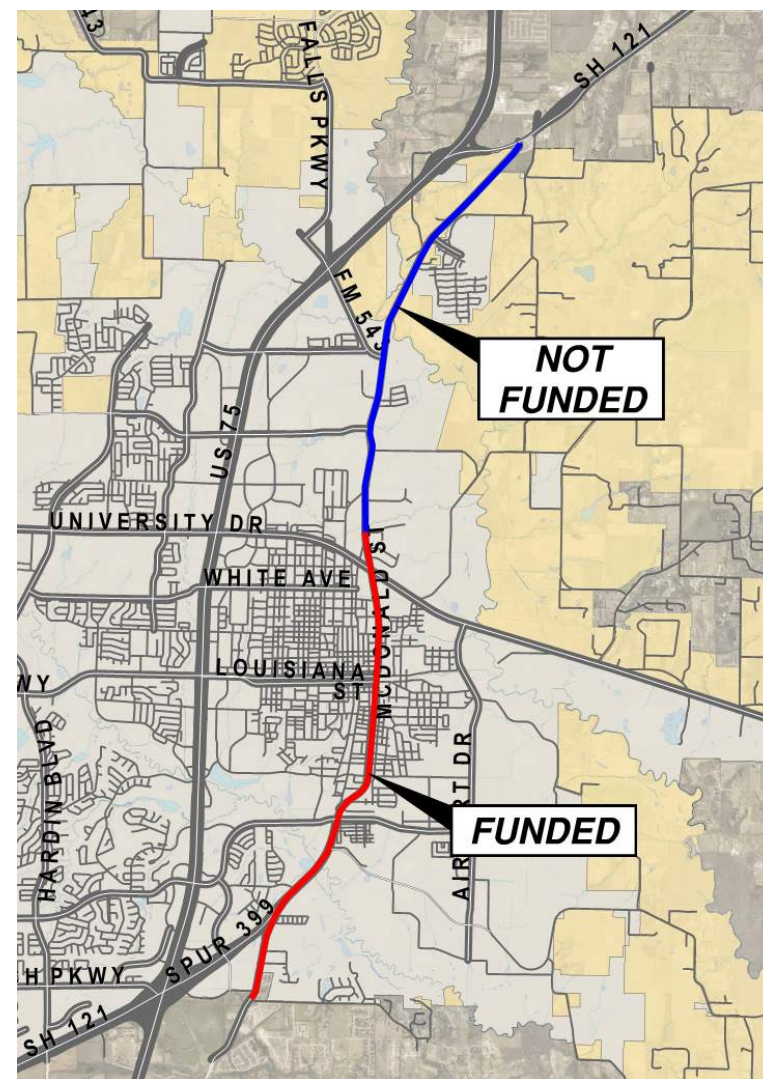
Project Need & Purpose

- Associated with Texas Department of Transportation (TxDOT) planned reconstruction of SH 5 / McDonald St between Country Club Rd and Power House St.
- City of McKinney utilities (Water & Wastewater) within the proposed SH 5 right-of-way must be relocated or cleared in advance of roadway construction by TxDOT.
- As typical for these projects, TxDOT and the City of McKinney will enter into a utility agreement prior to relocations which will identify eligible reimbursements by TxDOT associated with the utility relocations.



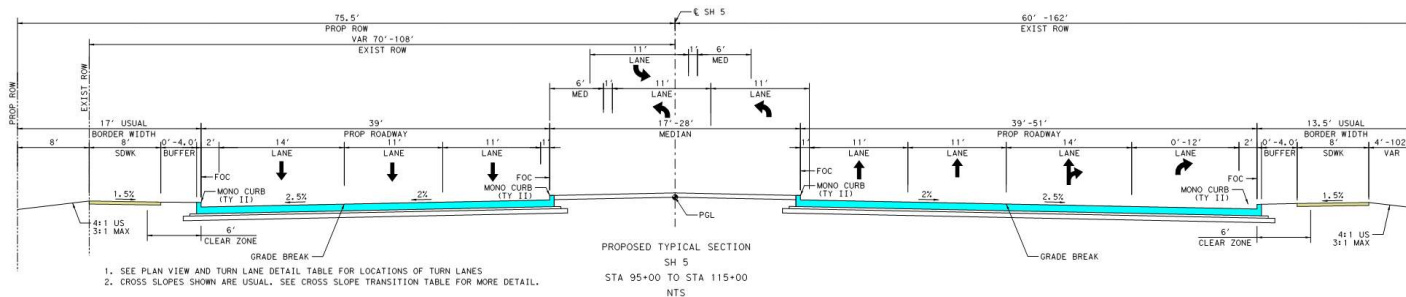
SH 5 Reconstruction Overview

- Planning for the reconstruction of SH 5 by TxDOT has been underway throughout the City of McKinney
- Although planning includes the entirety of SH 5 through McKinney, TxDOT has only allocated initial construction funding for the southern limits (Country Club – Power House)
- The planned improvements to SH 5 generally includes:
 - Complete reconstruction as 4 to 6 lane divided urban arterial
 - Construction of grade-separated intersections at SP 399 & Stewart Rd
 - Enhanced pedestrian improvements north of Tennessee St
- The Engineering Department has been working closely with TxDOT throughout the planning process to ensure alignment of project goals.



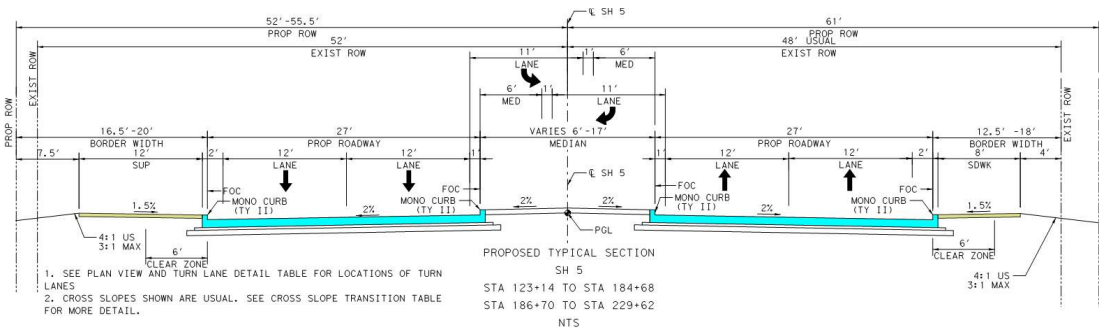
SH 5 Reconstruction Overview

Country Club to Eldorado (6-Lane Ultimate)



- 4-Lane Construction (Country Club to SP 399)
- 6-Lane Construction (SP 399 to Eldorado)

Eldorado to US 380 (4-Lane Ultimate)

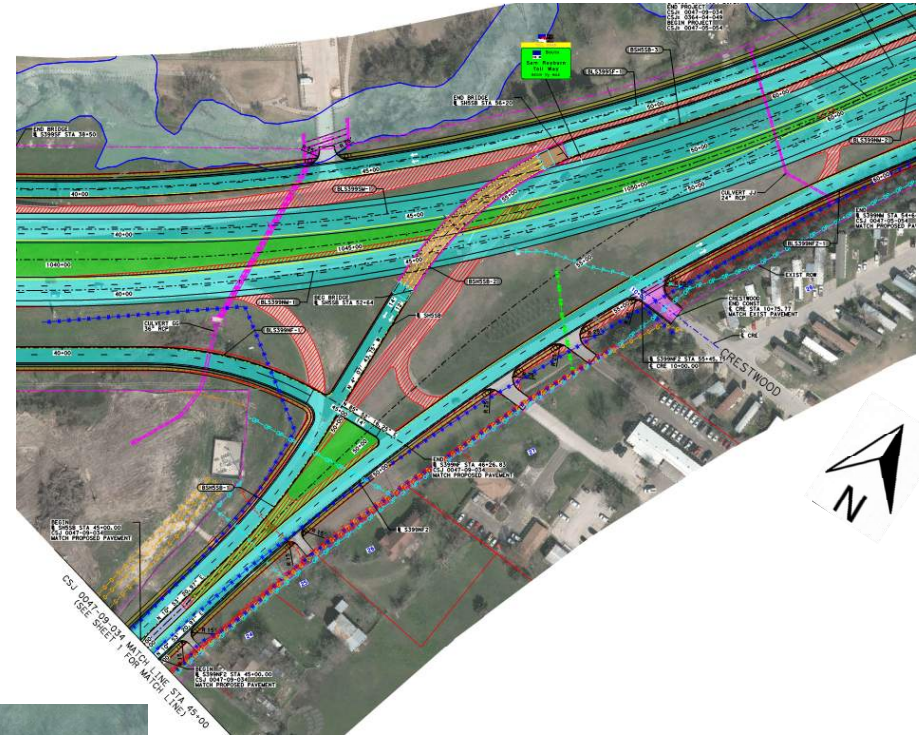


Corridor Context

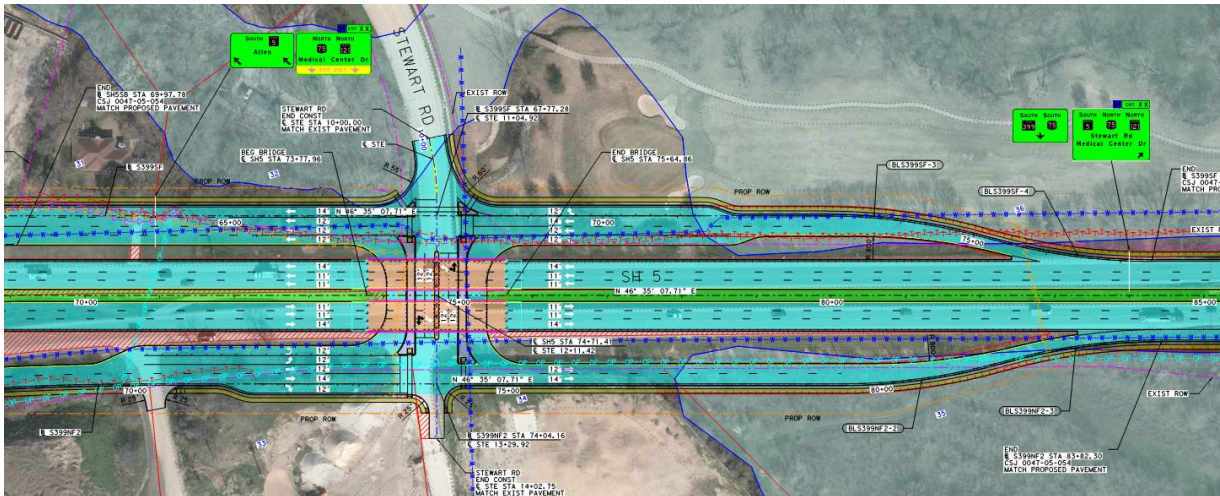
SH 5 Reconstruction Overview

- Grade separations and ramps are planned to provide safe and efficient access between SH 5 and Spur 399 / Stewart Road.
- TxDOT is ensuring that improvements are compatible with a possible extension of Spur 399 at a later date.

Planned Grade Separation (Spur 399)



Planned Grade Separation (Stewart Road)



SH 5 Utility Relocation Overview

Potential Conflicts (Water)

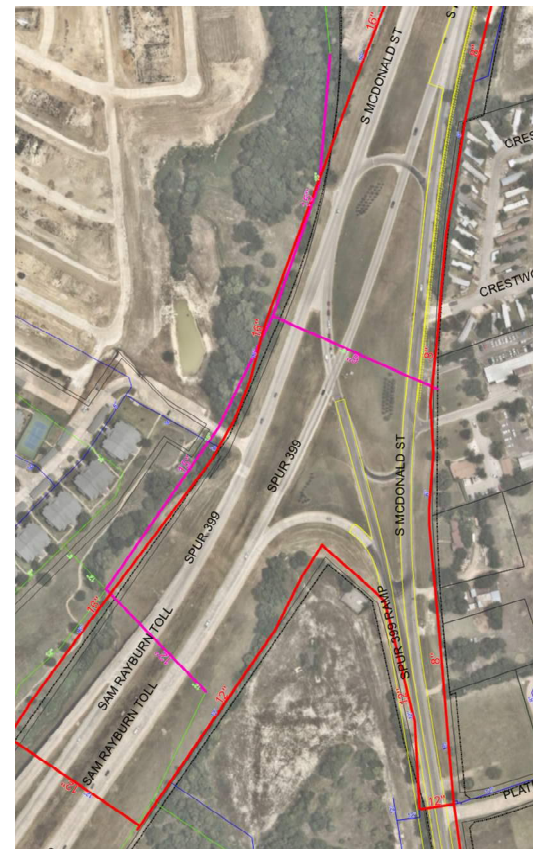
- ±28,000 Linear Feet
- 8" to 24" Mains

Project Goals

- *Clear* utilities in conflict with roadway construction by TxDOT "Ready to Let" date (Late 2021).
- Incorporate betterments to existing utilities for operations and in accordance with water/wastewater master plans.
- Minimize temporary and permanent impacts of utility relocations/improvements on existing development.
- Ensure maximum reimbursement by TxDOT for required relocations (Est. 25%)

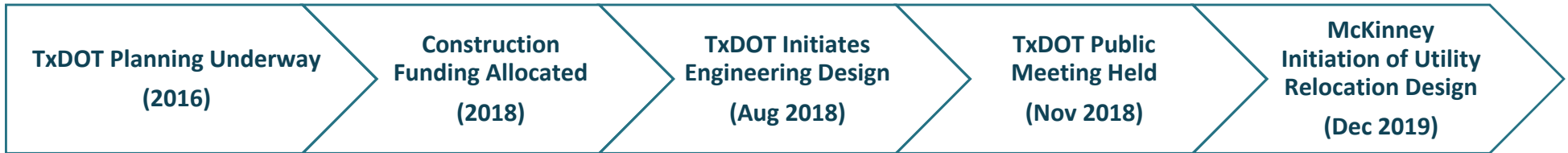
Potential Conflicts (Wastewater)

- ±11,000 Linear Feet
- 8" to 48" Mains



Project Timeline & Anticipated Schedule

Historical Timeline



Planned TxDOT Timeline (Roadway Improvements)



*SH 5 Roadway Construction Timeframe TBD

Planned McKinney Timeline (Utility Relocations)



Project Cost Obligations

SH 5 ROADWAY IMPROVEMENTS PROJECT COST OBLIGATIONS*		
COST COMPONENT	TxDOT	McKINNEY
Planning & Design	100%	0%
Land Acquisition (Est. \$8.5M)	90%	10%
Construction (Est. \$80M)	100%	0%

±\$90M project cost
(±1.1% Local Contribution)

*Based on assumed project cost sharing (to be finalized in a funding agreement at a later date)

SH 5 UTILIY RELOCATIONS TxDOT REIMBURSEMENT	
EXISTING UTILITY LOCATION	REIMBURSEMENT BY TxDOT
Within Existing TxDOT ROW	Generally Not Eligible
Within Proposed TxDOT ROW (Outside Existing TxDOT ROW)	Eligible **

±\$17M project cost
(Est. 25% Reimbursement)

**Betterments of eligible existing utilities (e.g. increasing the size of a utility) are partially reimbursable based on a ratio of betterment.



SH 5 Corridor Opportunities

- **Overhead Power & Utilities Buried (Standifer to Watt)**
- **Cottonwood Park Improvements (Future Expansion / Gateway)**
- **City of McKinney Request to Remove a Portion of SH 5 from the TxDOT System**
- **SH 5 Median Lighting Improvements (To be Funded in FY20)**
- **Improve Pedestrian Connectivity (East – West of SH 5)**
- **Improve Vehicle Access Management (Consolidation of Driveways)**

Council Action Recommendation

Authorize the City Manager to execute a contract in the amount of \$1,592,000, as well as all required supplemental agreements thereto, with Kimley-Horn and Associates, Inc. to provide professional engineering services for the SH 5 Utility Relocations project, for a total aggregate contract amount, inclusive of any supplemental agreements, not to exceed \$1,830,000

