

ADDENDUM 24-MARCH-2022

APPENDIX J - FARMLAND - Proposed ROW Change

SPUR 399 EXTENSION EIS - US 75 to US 380, Collin County CSJs 0364-04-051, 0047-05-058, and 0047-10-002; Dallas District

PURPOSE OF ADDENDUM:

Changes were made to the proposed right-of-way (ROW) limits for the Spur 399 Extension in the 60% Geometric Schematic Design submittal made on 3-JAN-2022. A copy of that submittal is included in Appendix B of this DEIS. This addendum describes where the changes occurred and summarizes how those changes affected the impacts and findings disclosed in the previously approved technical reports that make up this appendix. The revised impacts based on the proposed ROW changes are disclosed in the DEIS.

UPDATED SPUR 399 EXTENSION PROJECT DESCRIPTION:

With submittal of the 60% Geometric Schematic Design on 3-JAN-2022, the description of the proposed Spur 399 Extension has been updated as follows:

The proposed Spur 399 Extension is comprised of improvements within the existing section of SH 5 between US 75 and Stewart Road, and new location improvements from Stewart Road to US 380 east of McKinney. Within the section of SH 5 between US 75 and Stewart Road, one new travel lane in each direction would be striped and ramping improvements would be constructed within the existing ROW and roadway pavement section to be established by the recently cleared SH 5 project (CSJs 0135-03-046 and 0135-04-033).

From Stewart Road to US 380, the Spur 399 Extension would be constructed on new location as an 8-lane, access-controlled freeway with 2-lane, one-way frontage roads on each side, starting east of Couch Drive, within an anticipated average ROW width of 400 feet, but with areas of ROW ranging from 165 feet to 696 feet wide depending on location. Frontage roads may be eliminated, and the primary travel lanes may be elevated on structure to minimize impacts on sensitive resources. The freeway facility would also include ramps, frontage roads, and arterial roadways to support connectivity to the existing roadway network along with safety lighting/signage/ITS. Grade-separated interchanges would be constructed at major crossroads.

DESCRIPTION OF THE PROPOSED ROW CHANGE

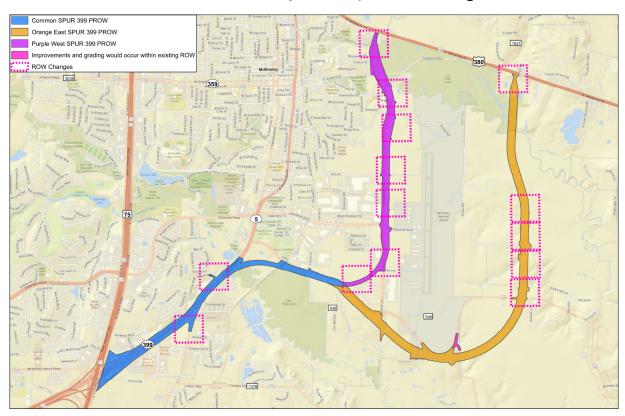
To streamline and accelerate the NEPA process for this project, technical studies were initiated at an early stage in schematic development. Initial technical report submittals were based on the proposed ROW established in JUL-2021. Consideration of a 'Purple 2 Option' was also dismissed. In OCT-2021, to strengthen the independent utility of the Spur 399 Extension, excess proposed ROW adjacent to US 380 was removed along with other modifications along both alignments, further reducing the total amount of ROW required. The JAN-2022 Geometric Schematic Design submittal reflects the continued refinement of the alternatives and consideration of input received during the 21-OCT-2021, public meeting and ongoing coordination with stakeholders including the City of McKinney, Collin County, and the North Texas Municipal Water District.

The JAN-2022 submittal made minor adjustment to the proposed ROW limits throughout the length of the new location sections of both build alternatives to account for drainage, access, and geometric improvements. The following table summarizes the proposed ROW changes.

Proposed ROW Change - July 2021 to January 2022

Build Alternative	July 2021 Proposed ROW	October 2021 Proposed ROW	January 2022 Proposed ROW
PURPLE ALTERNATIVE	303.9 acres 340 acres (Purple Option 2)	259.7 acres	263.4 acres
ORANGE ALTERNATIVE	396.0 acres	366.4 acres	366.1 acres

Illustration of the January 2022 Proposed ROW Changes



EFFECTS OF THE JANUARY ROW CHANGE ON FARMLAND IMPACTS AND FINDINGS

The proposed ROW change decreased the total amount of ROW used to calculate the impacts on the CPA-106 Form submitted to coordinate with the NRCS in August 2021. The acreage of total farmland and prime farmland increased slightly for the Purple Alternative due to where the changes occurred along Airport Drive adjacent to areas currently under cultivation. The percentage of farmland within urbanized areas did not change as the alignments stayed the same. Overall, the minor proposed ROW changes resulted in no substantial change in farmland impacts and would not warrant additional coordination with the NRCS.

Comparison of Farmland Impacts of the Purple and Orange Alternatives

Prime and Statewide Important	Purple	Alternative	Orange Alternative		
Farmland	Acres (JAN-2022)	Acres (OCT-2021)	Acres (JAN-2022)	Acres (0CT-2021)	
Total Area within the Proposed ROW	263.4	303.9	366.1	389.7	
Total Area of Mapped Prime and Statewide Important Farmland W/in Proposed ROW	166.9	155.6	165.7	169.0	
Area of Mapped Prime Farmland	142.4	131.3	148.9	152.5	
Area of Mapped Farmland of Statewide Importance	24.5	24.3	16.8	16.5	
Total Acreage of Proposed ROW in Urbanized Areas (UA)	158.0	182.1	173.4	184.0	
McKinney UA	147.5	170.9	162.3	172.9	
Dallas-Fort Worth-Arlington UA	10.5	11.2	11.1	11.2	

(Rev. 1-91)

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I (To be completed by Federal Agency)			3. Date of Land Evaluation Request 6/8/21 4. Sheet 1 of					
1. Name of Project Spur 399 Extension			5. Federal Agency Involved Texas Department of Transportation					
2. Type of Project Transportation Improvement			6. County and State Collin County, Texas					
PART II (To be completed by NRCS)		1. Date	Request Receive	d by NRCS	2. Person	Completing Form		
3. Does the corridor contain prime, unique statewide or local in	•		YES NO	П	4. Acres Iri	rigated Average I	arm Size	
(If no, the FPPA does not apply - Do not complete additional		۱).			7 Amount	of Farmland As De	ofined in EDDA	
5. Major Crop(s)	6. Farmable Lan	a in Gover		on		oi Faiiiiand AS De		
Name Of Land Evaluation System Used	Acres: 9. Name of Loca	I Site Asse	ssment System		Acres:	and Evaluation Re	turned by NRCS	
o. Hame of Land Evaluation dystem discu	5. Name of Loca	1 0110 7 1330	Someth Oystem		To. Date Le	and Evaluation No	turned by 1411.00	
DART III (To be completed by Federal Amenay)			Altern	ative Corri	dor For Se	gment		
PART III (To be completed by Federal Agency)			Purple	Oran	ge	Corridor C	Corridor D	
A. Total Acres To Be Converted Directly			155.64	169.02				
B. Total Acres To Be Converted Indirectly, Or To Receive	Services		0	0				
C. Total Acres In Corridor			303.89	389.	77			
PART IV (To be completed by NRCS) Land Evaluation	ion Information							
A. Total Acres Prime And Unique Farmland								
B. Total Acres Statewide And Local Important Farmland								
C. Percentage Of Farmland in County Or Local Govt. Uni								
D. Percentage Of Farmland in Govt. Jurisdiction With Same								
PART V (To be completed by NRCS) Land Evaluation Info		Relative						
value of Farmland to Be Serviced or Converted (Scale of	Ť	\ 4						
PART VI (To be completed by Federal Agency) Corrido Assessment Criteria (These criteria are explained in 7		Maximum Points						
1. Area in Nonurban Use	- "	15	0	10				
2. Perimeter in Nonurban Use		10	0	8				
3. Percent Of Corridor Being Farmed		20	15	0				
4. Protection Provided By State And Local Government	t	20	0	0				
5. Size of Present Farm Unit Compared To Average		10	10	10				
6. Creation Of Nonfarmable Farmland		25	10	20				
7. Availablility Of Farm Support Services		5	5	5				
8. On-Farm Investments		20	15	15				
9. Effects Of Conversion On Farm Support Services		25	10	5 10				
10. Compatibility With Existing Agricultural Use		10	75	83				
TOTAL CORRIDOR ASSESSMENT POINTS		160	75	03		0	0	
PART VII (To be completed by Federal Agency)								
Relative Value Of Farmland (From Part V)		100	0	0		0	0	
Total Corridor Assessment (From Part VI above or a loca assessment)	al site	160	75	83		0	0	
TOTAL POINTS (Total of above 2 lines)		260	75	83	C	0	0	
Corridor Selected: Corridor Selected: Corridor Selected: Corridor Selected:	1.	B. Date Of	Selection:	4. Was	A Local Site	Assessment Used	d?	
Converted by Proj	ect:							
					YES	NO 🗌		
5. Reason For Selection:					7/16/	/2021		
Signature of Person Completing this Part:					DATE			
NOTE: Complete a form for each segment with	more than one	Alternat	te Corridor					

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

How much land is in nonurban use within a radius of 1.0 mile from where the project is intended? More than 90 percent - 15 points 90 to 20 percent - 14 to 1 point(s) Less than 20 percent - 0 points

How much of the perimeter of the site borders on land in nonurban use? More than 90 percent - 10 points 90 to 20 percent - 9 to 1 point(s) Less than 20 percent - 0 points

How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years? More than 90 percent - 20 points 90 to 20 percent - 19 to 1 point(s)

Less than 20 percent - 0 points

Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland? Site is protected - 20 points

Site is not protected - 0 points

Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County? (Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.) As large or larger - 10 points

Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points

Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)

Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points

Some required services are available - 4 to 1 point(s)

No required services are available - 0 points

Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures? High amount of on-farm investment - 20 points

Moderate amount of on-farm investment - 19 to 1 point(s)

No on-farm investment - 0 points

- Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area? Substantial reduction in demand for support services if the site is converted - 25 points Some reduction in demand for support services if the site is converted - 1 to 24 point(s) No significant reduction in demand for support services if the site is converted - 0 points
- Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use? Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s) Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

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0304-04-051 etc. 3pu	1 399 Extension - Familiand Conversion (30% Schematic ROW)		ALT	ALT
Soil Map Unit Symbol	Soil Map Unit Name	Farmland Class	Acres	Acres
AID2	Altoga silty clay, 5 to 8 percent slopes, eroded	Not prime farmland	31.43	41.16
AuB	Austin silty clay, 1 to 3 percent slopes	Farmland of statewide importance	24.32	16.52
AuC2	Austin silty clay, 2 to 5 percent slopes, eroded	Not prime farmland	28.11	37.40
AuD2	Austin silty clay, 5 to 8 percent slopes, moderately eroded	Not prime farmland	10.49	19.58
BcA	Burleson clay, 0 to 1 percent slopes	All areas are prime farmland	0.00	22.92
BcB	Burleson clay, 1 to 3 percent slopes	All areas are prime farmland	0.00	18.93
EdD2	Eddy gravelly clay loam, 3 to 8 percent slopes, eroded	Not prime farmland	1.55	10.65
HoA	Houston Black clay, 0 to 1 percent slopes	All areas are prime farmland	43.22	7.81
HoB	Houston Black clay, 1 to 3 percent slopes	All areas are prime farmland	87.17	86.74
HoB2	Houston Black clay, 2 to 4 percent slopes, eroded	Not prime farmland	1.18	13.35
LeB	Lewisville silty clay, 1 to 3 percent slopes	All areas are prime farmland	0.93	16.10
LeC2	Lewisville silty clay, 3 to 5 percent slopes, eroded	Not prime farmland	9.21	32.64
Tf	Tinn clay, 0 to 1 percent slopes, frequently flooded	Not prime farmland	60.20	38.21
То	Trinity clay, 0 to 1 percent slopes, occasionally flooded	Not prime farmland	6.07	27.75
		Total Acres in Corridor	303.89	389.77
		Total Acres within DAL-FW-ARL Urbanized Area	11.15	11.15
		Total Acres within McKinney Urbanized Area	170.94	172.89
		Total Acres of Prime farmland	131.32	
		Total Acres of Statewide Important Farmland	24.32	16.52

