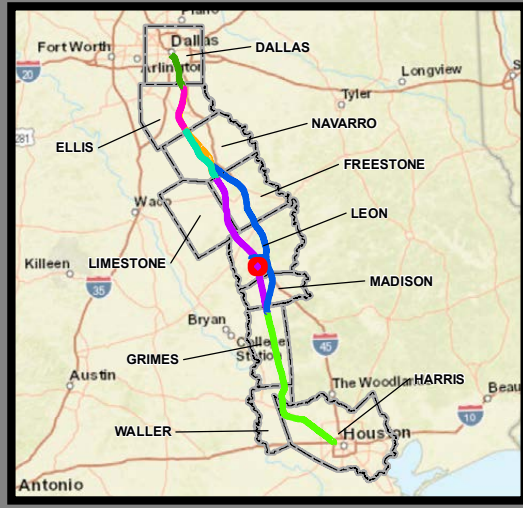
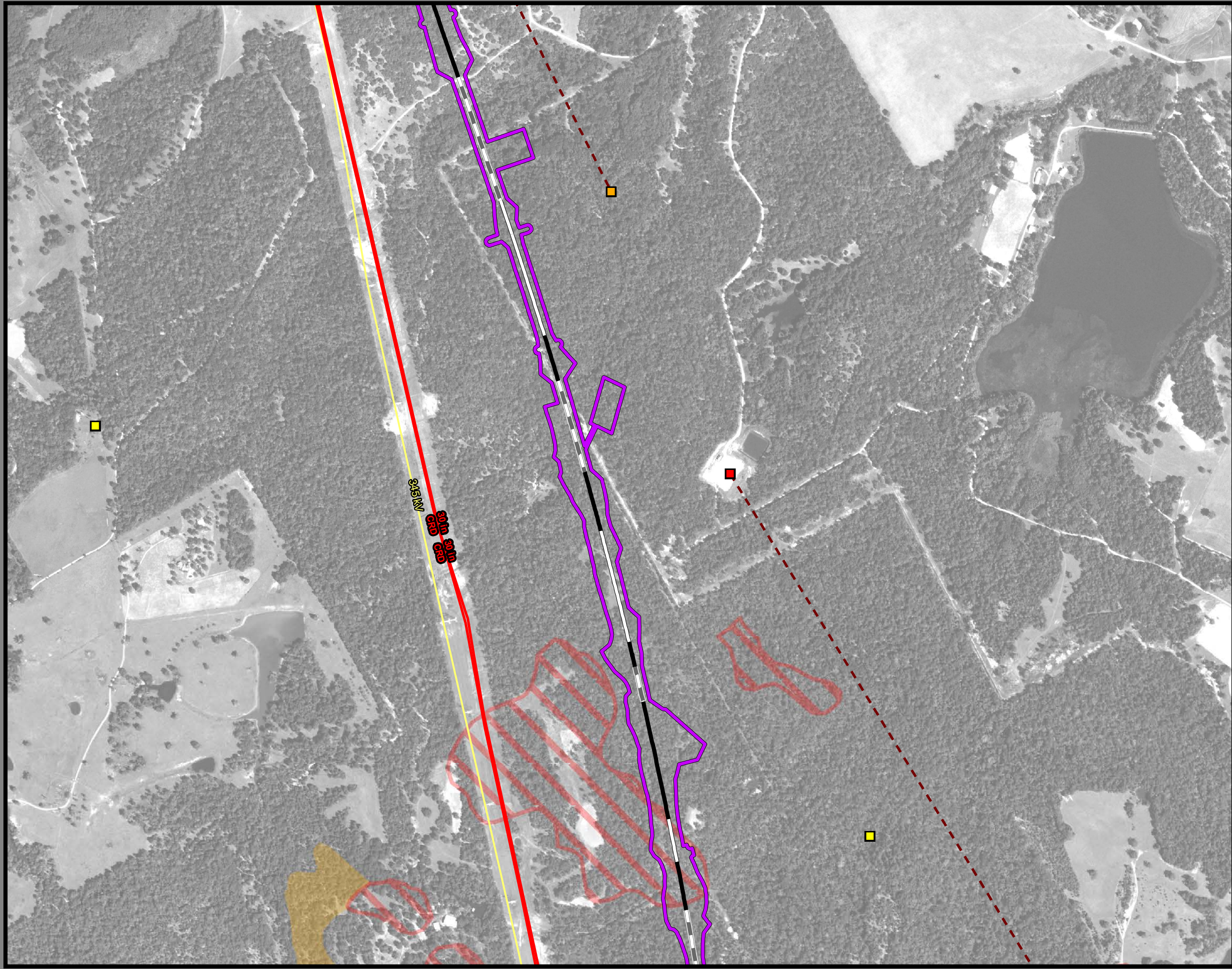


**Dallas to Houston High-Speed Rail
Final Environmental Impact Statement**

**Appendix D:
Mineral Resources
Mapbook Set 3 of 3**



**Federal Railroad
Administration**

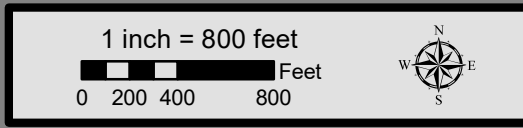


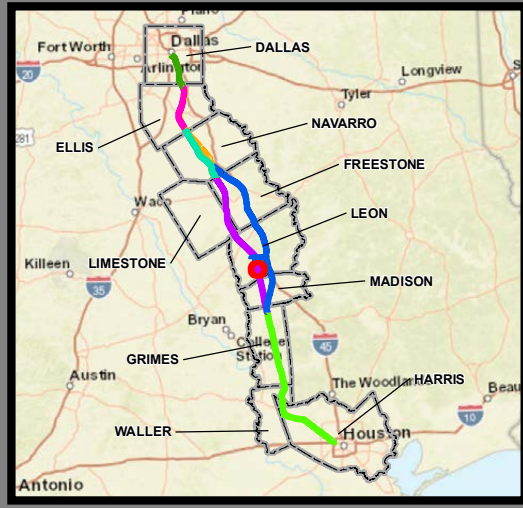
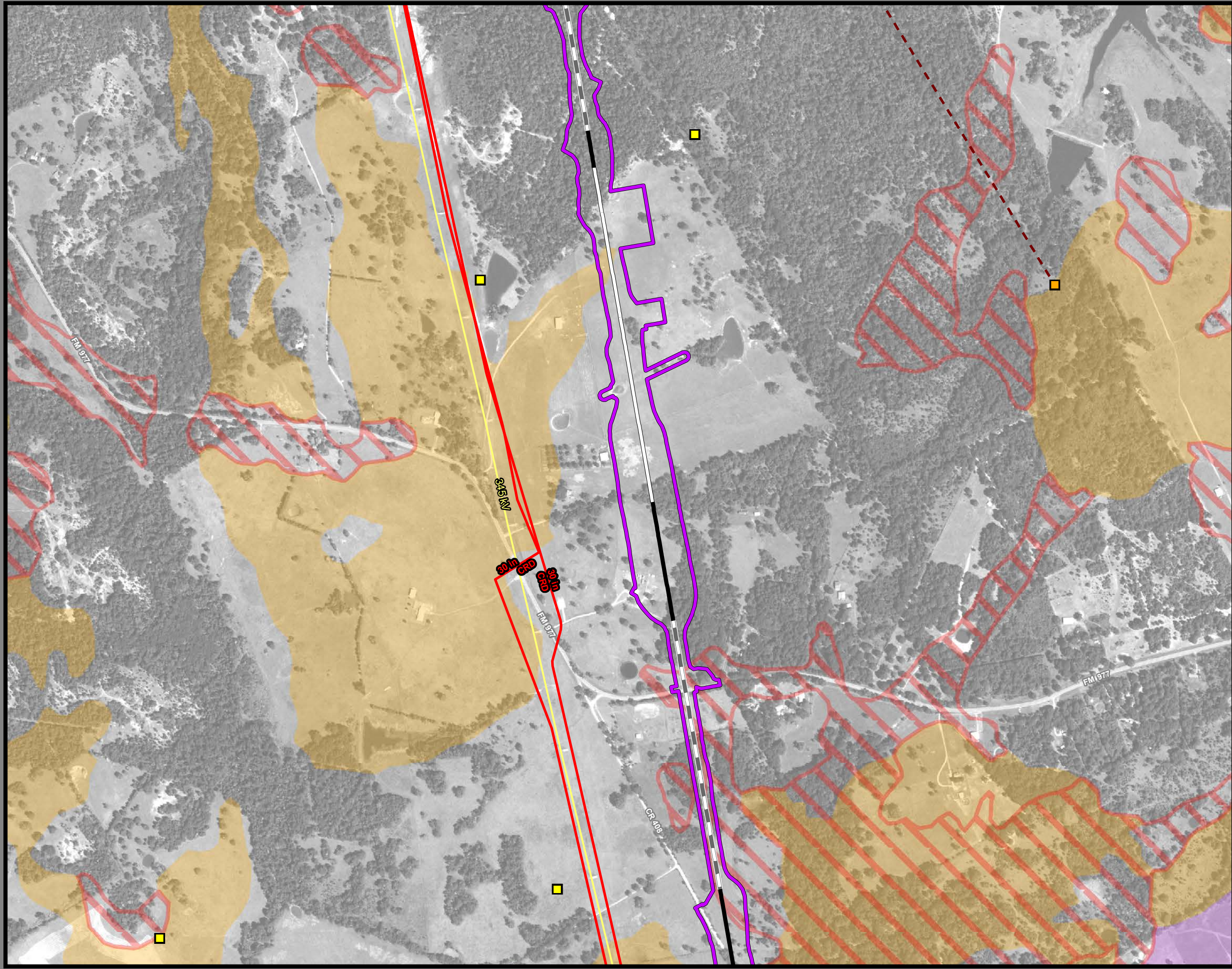
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 185 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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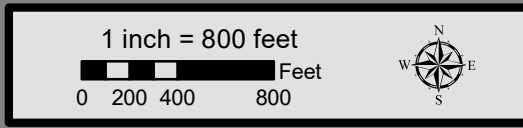


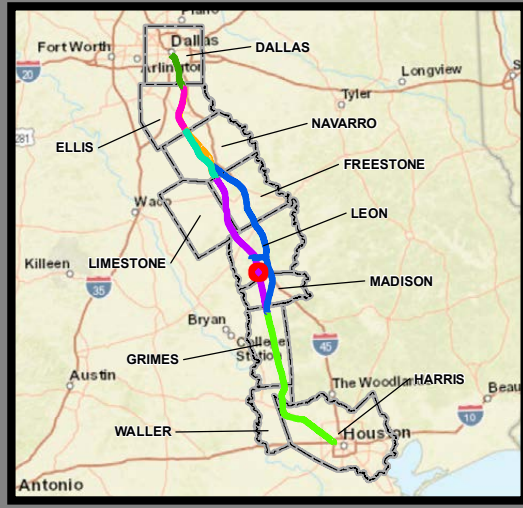
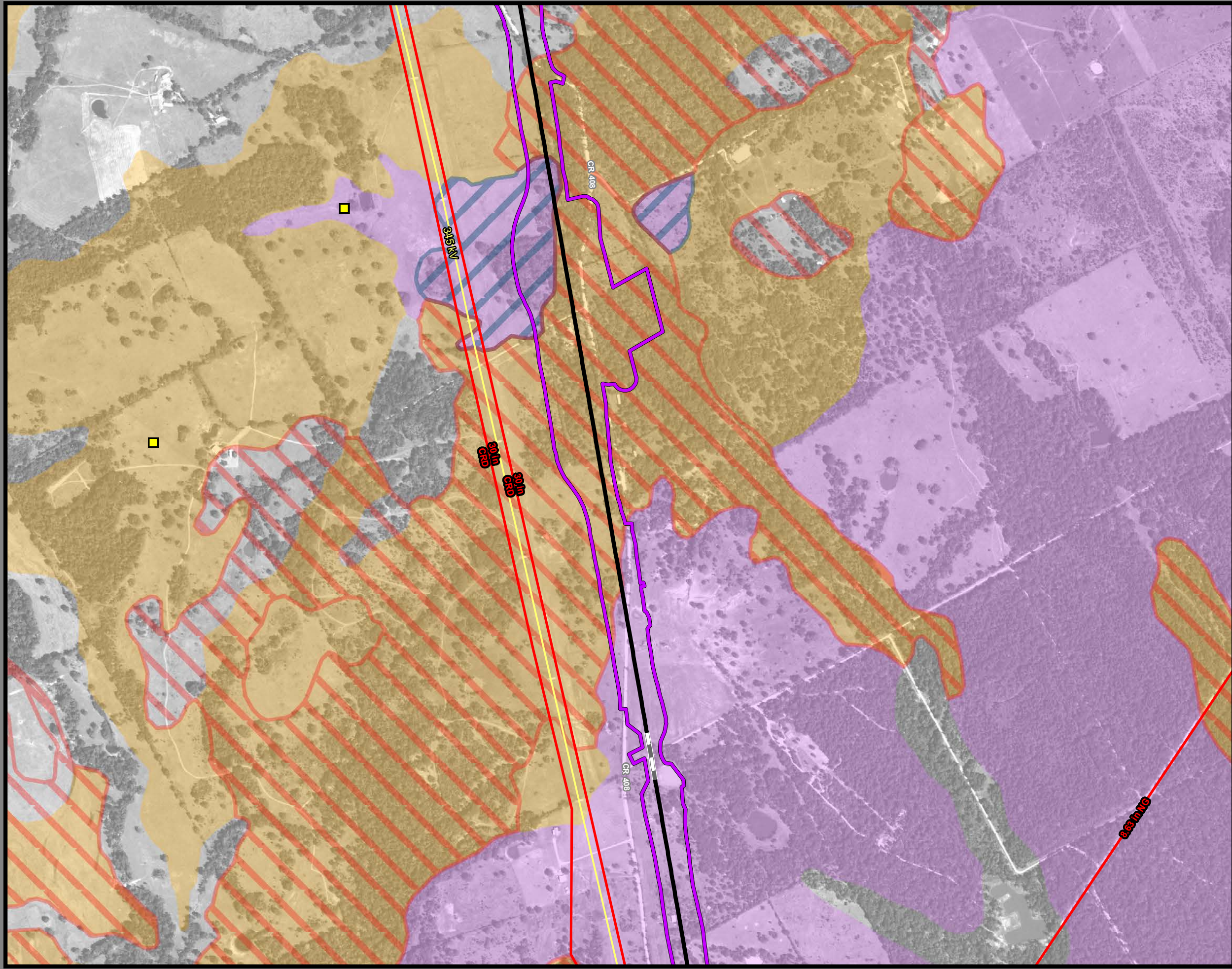
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 186 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
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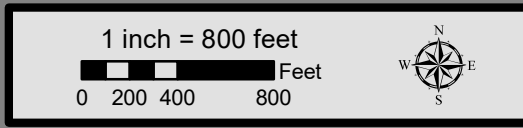


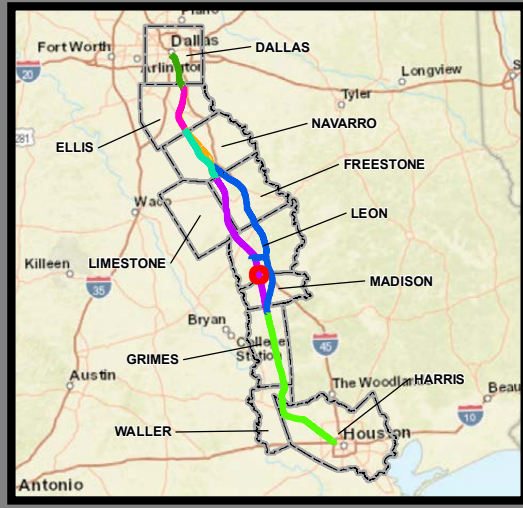
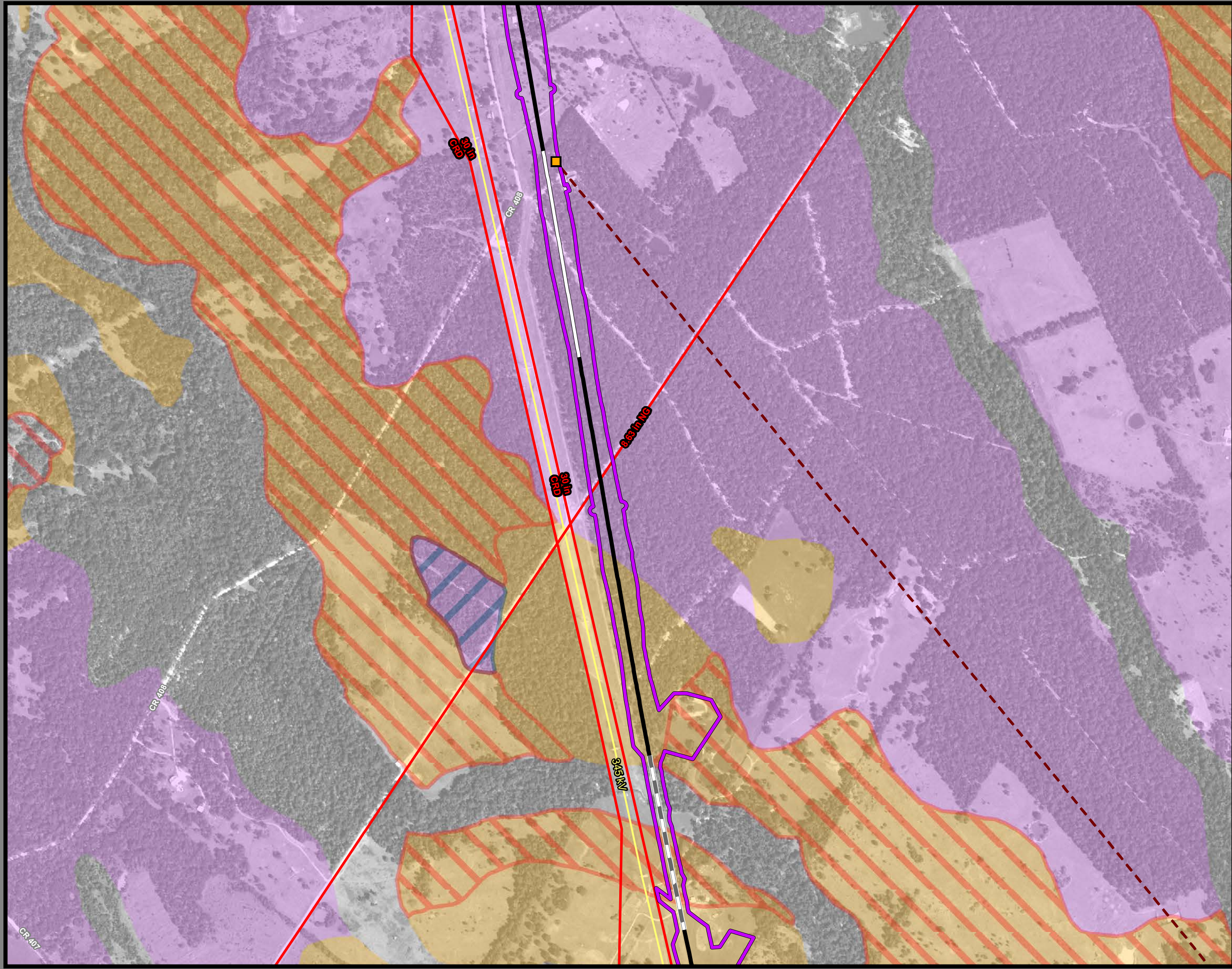
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 187 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
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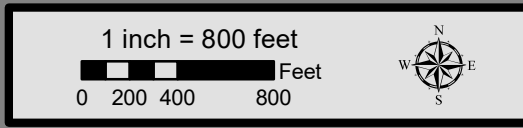


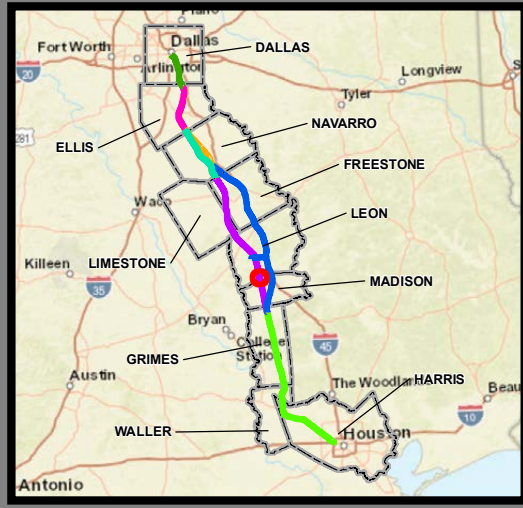
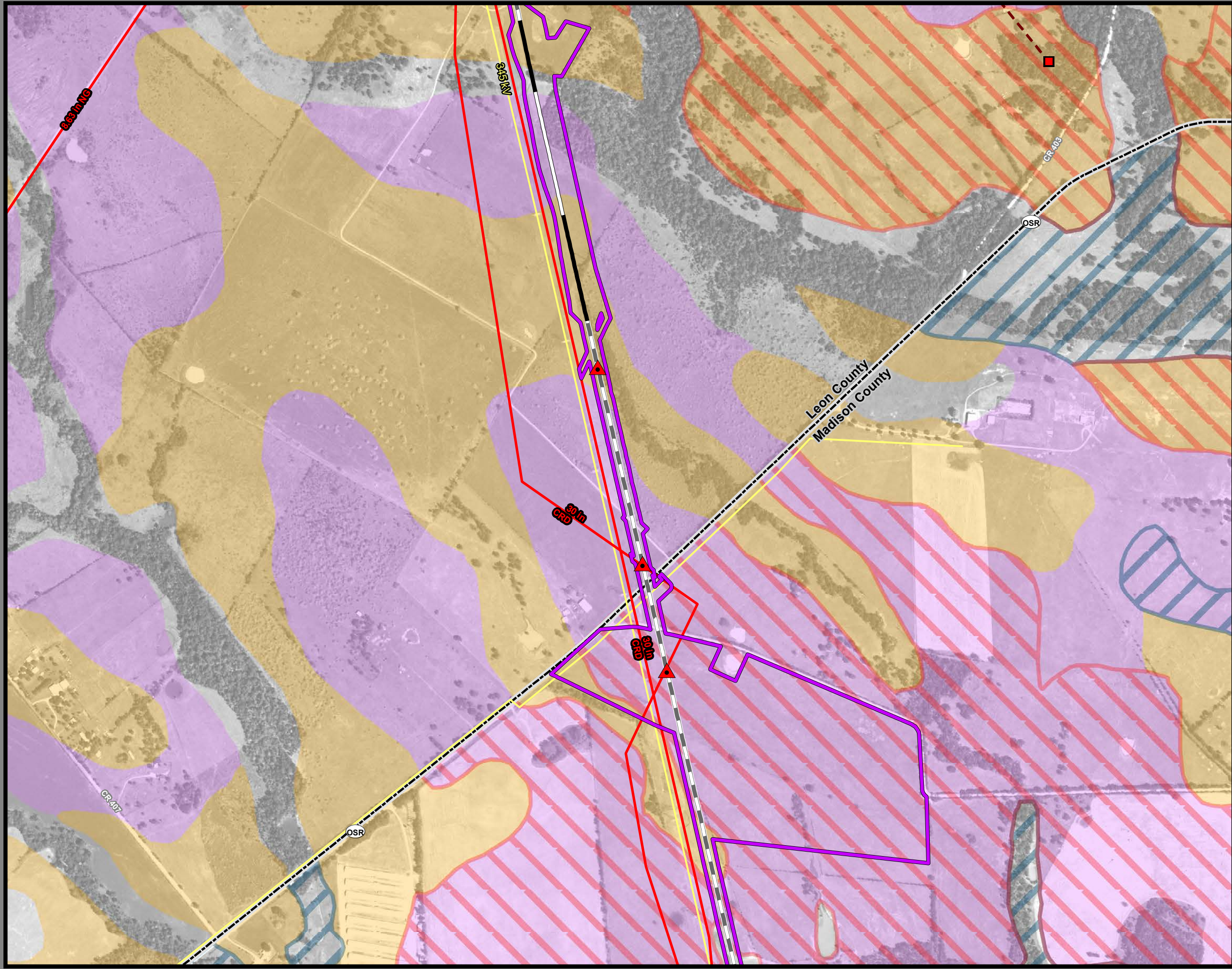
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 188 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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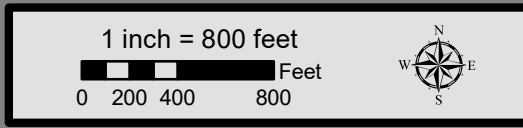


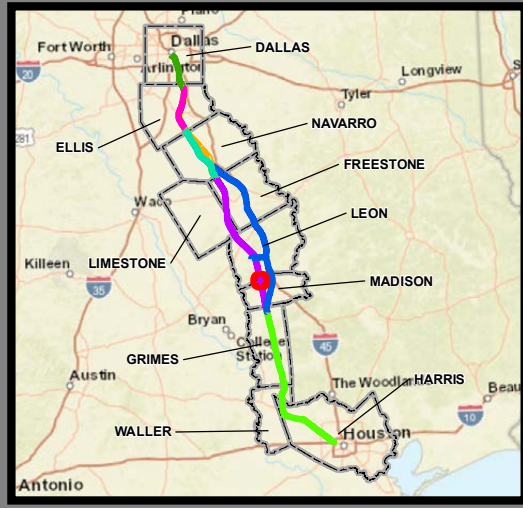
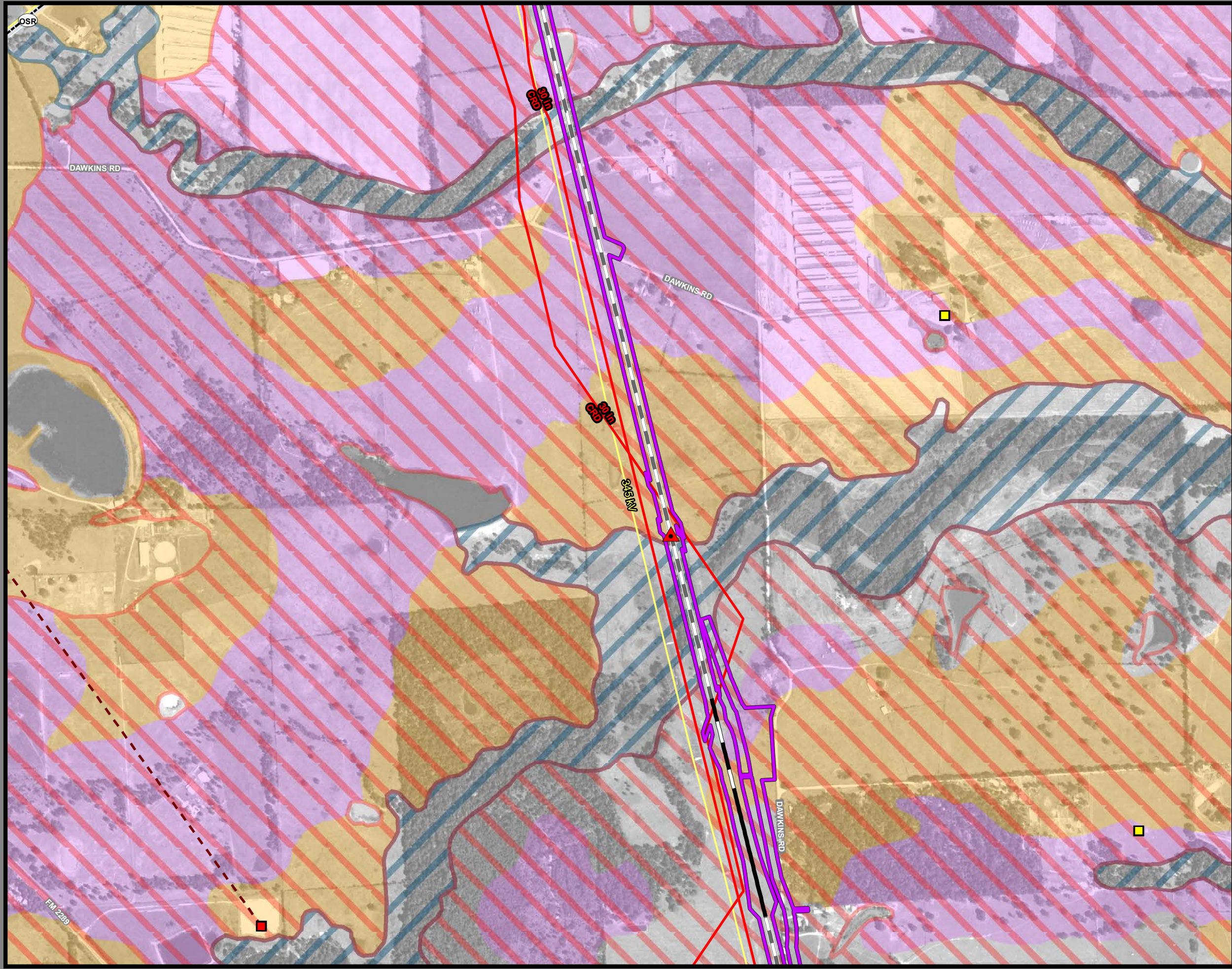
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 189 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
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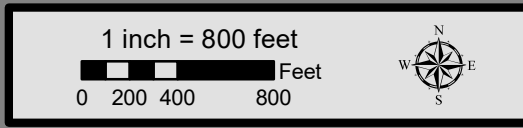


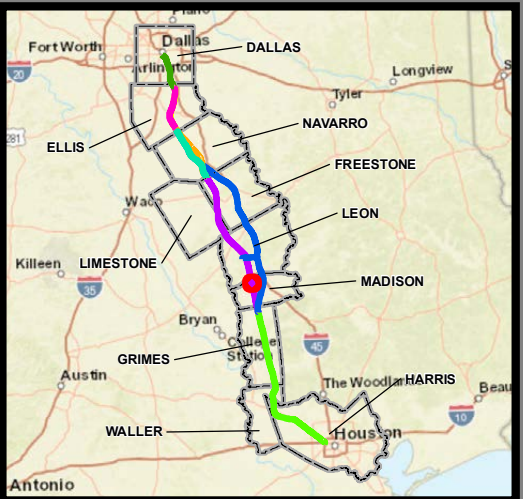
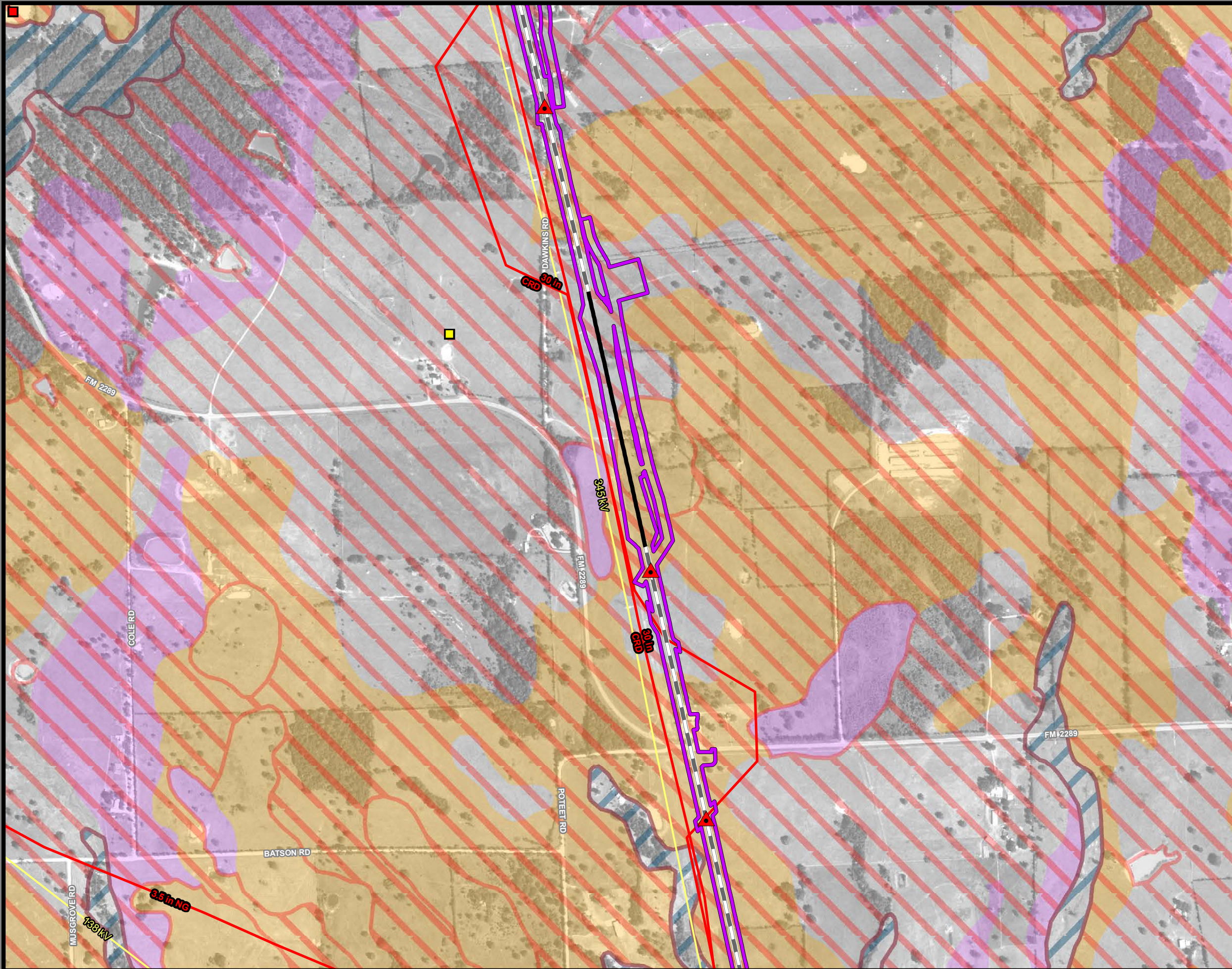
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 190 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
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	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
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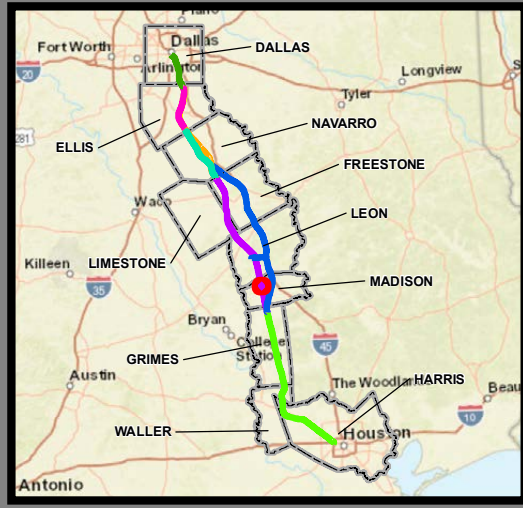
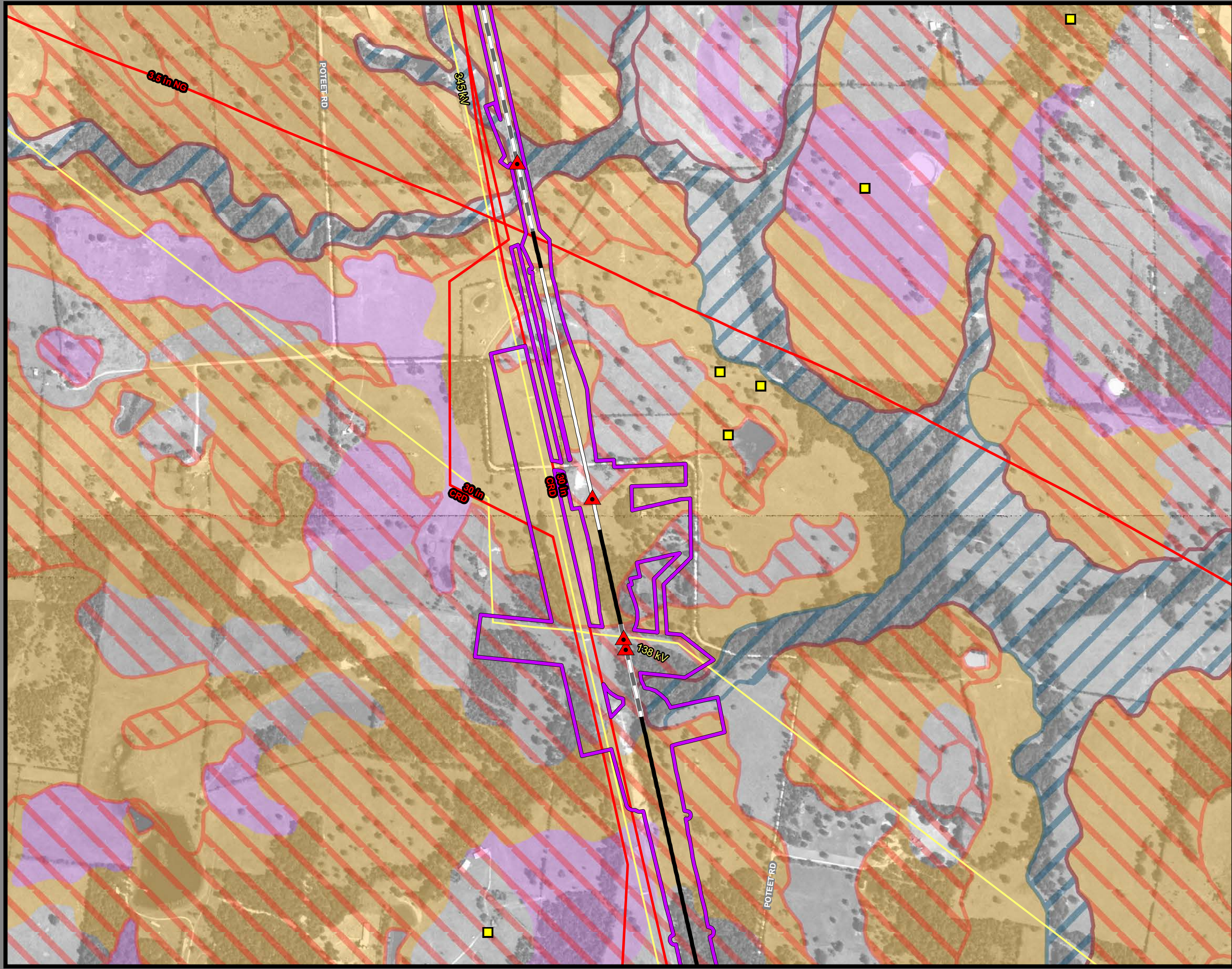
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 191 of 257**

Legend

Limits of Disturbance	Utilities
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Segment 3A	
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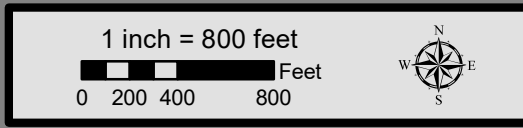


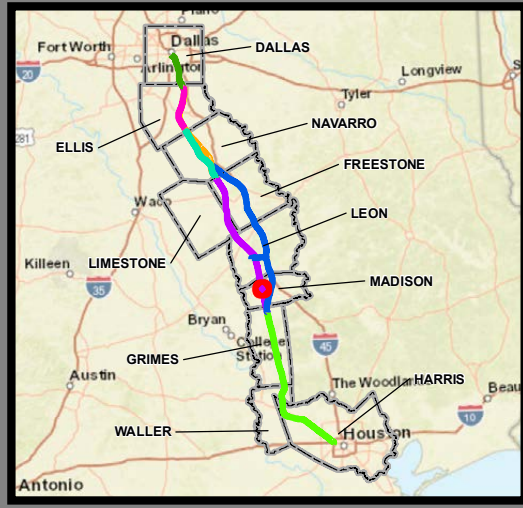
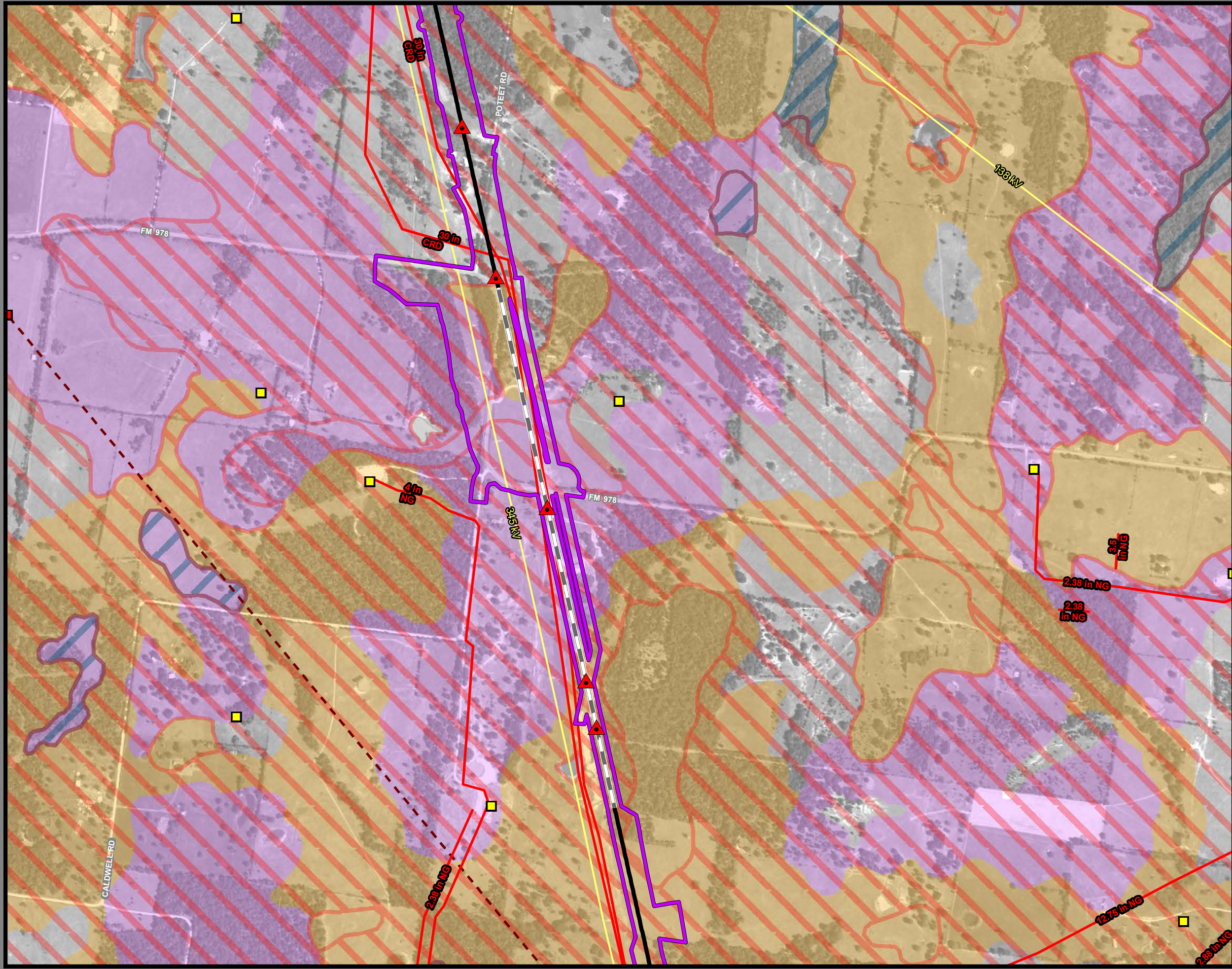
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 192 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
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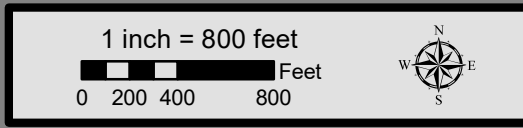


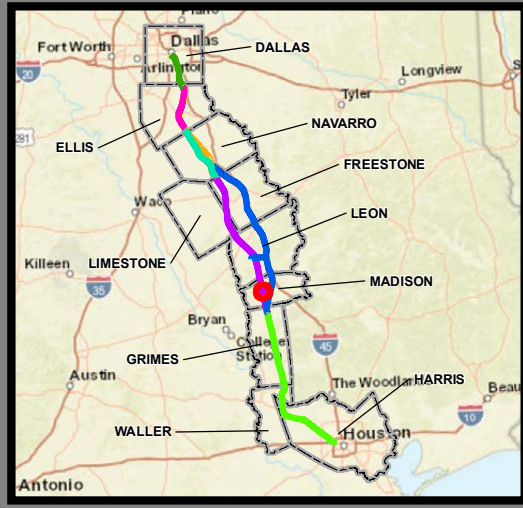
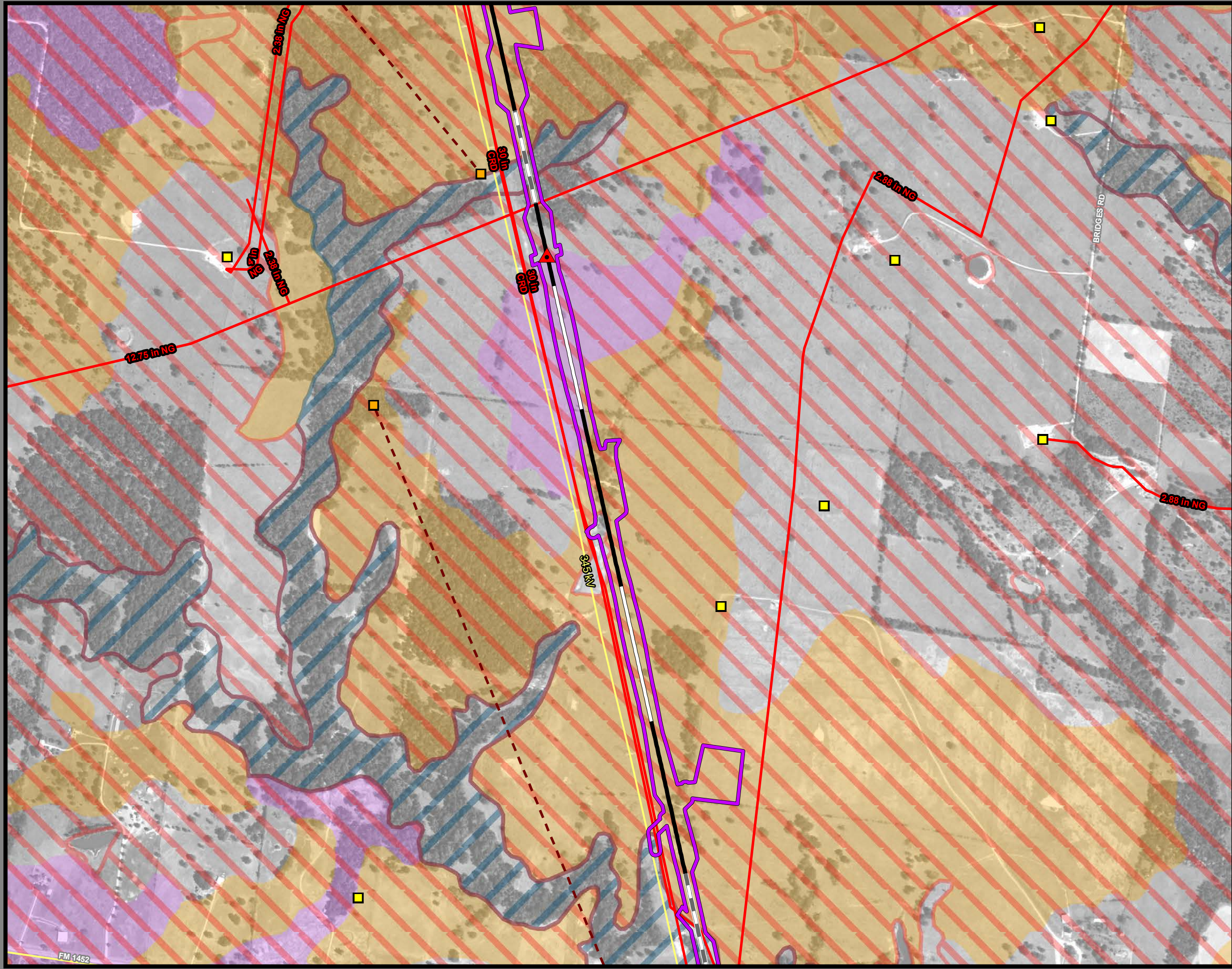
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 193 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
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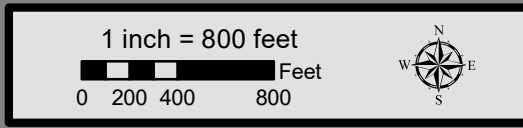


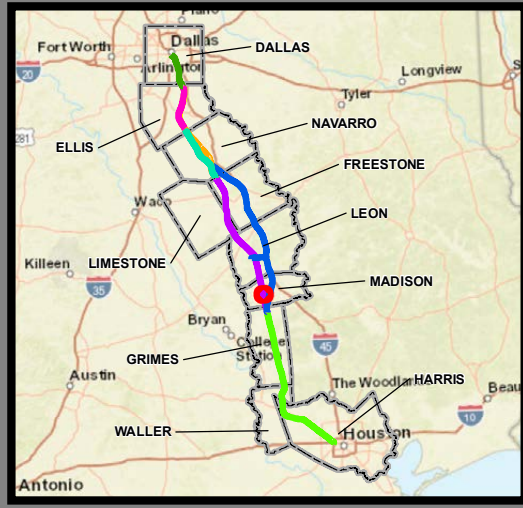
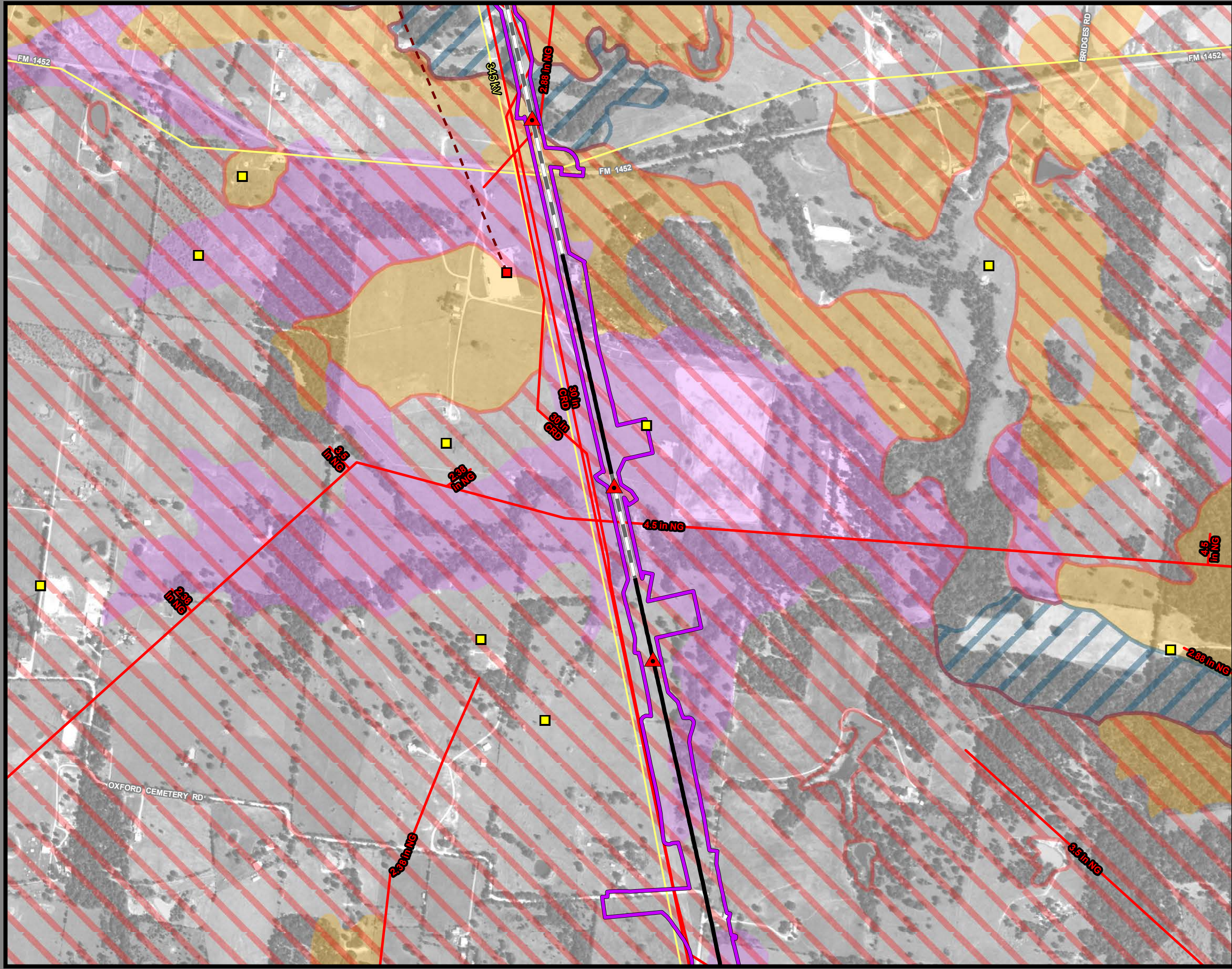
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 194 of 257**

Legend

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Segment 1	Mine
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Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
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Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
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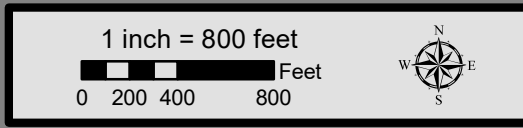


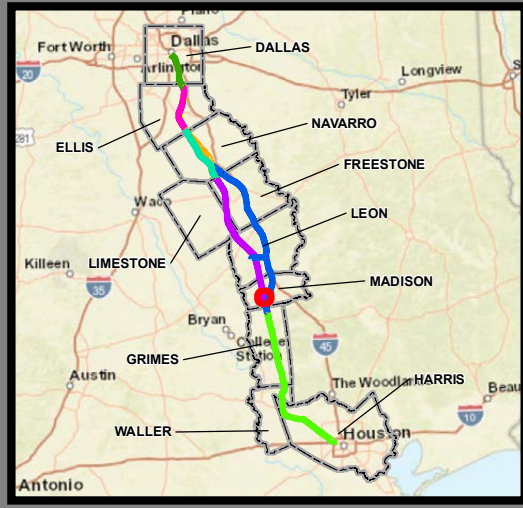
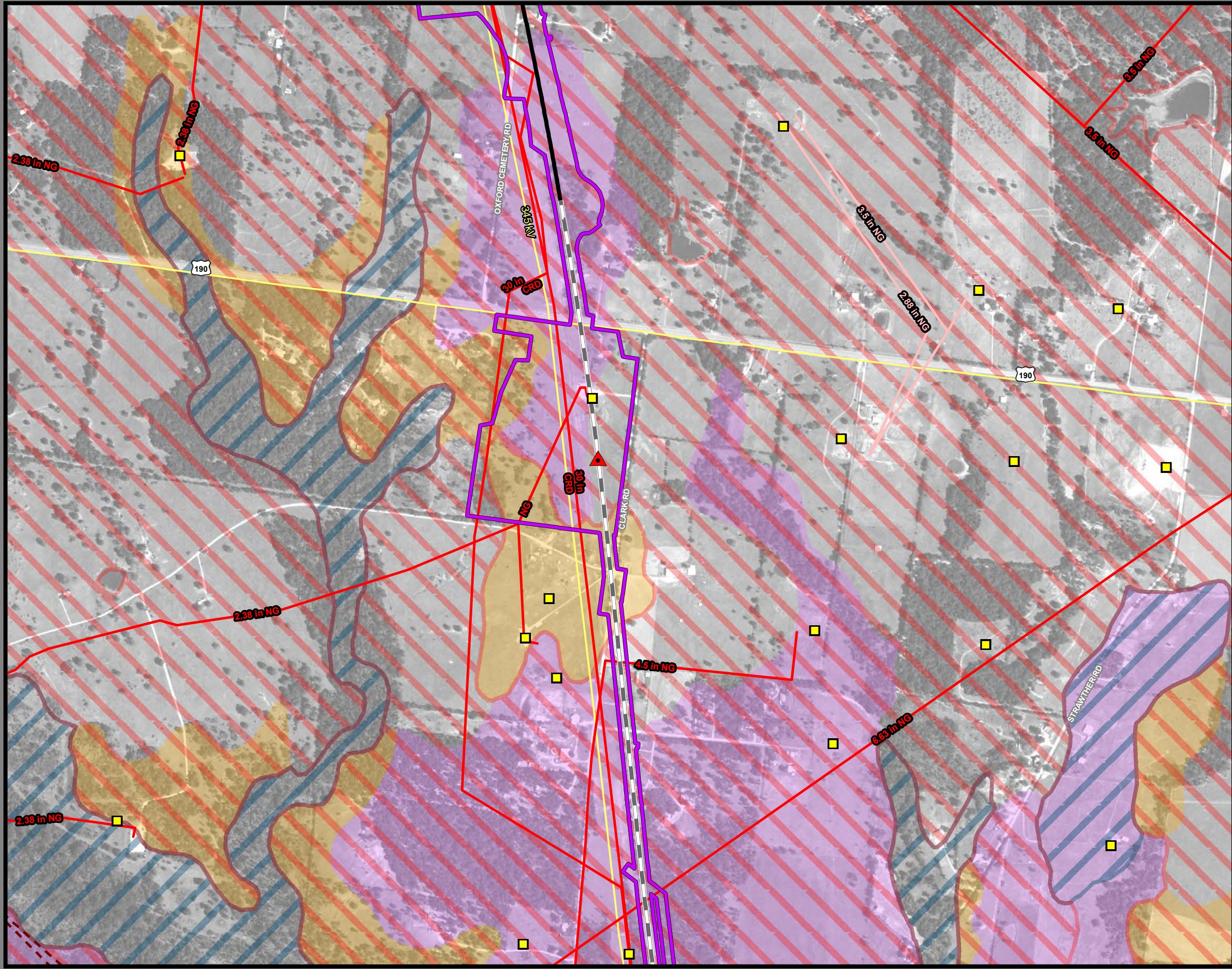
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 195 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
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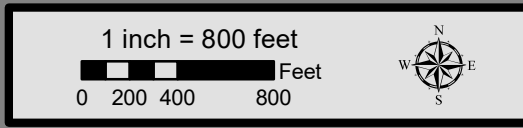


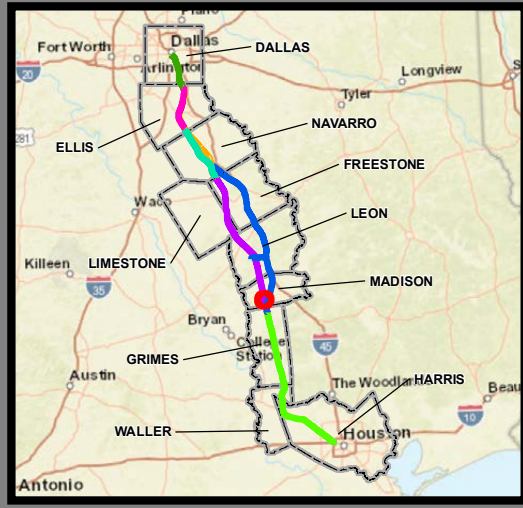
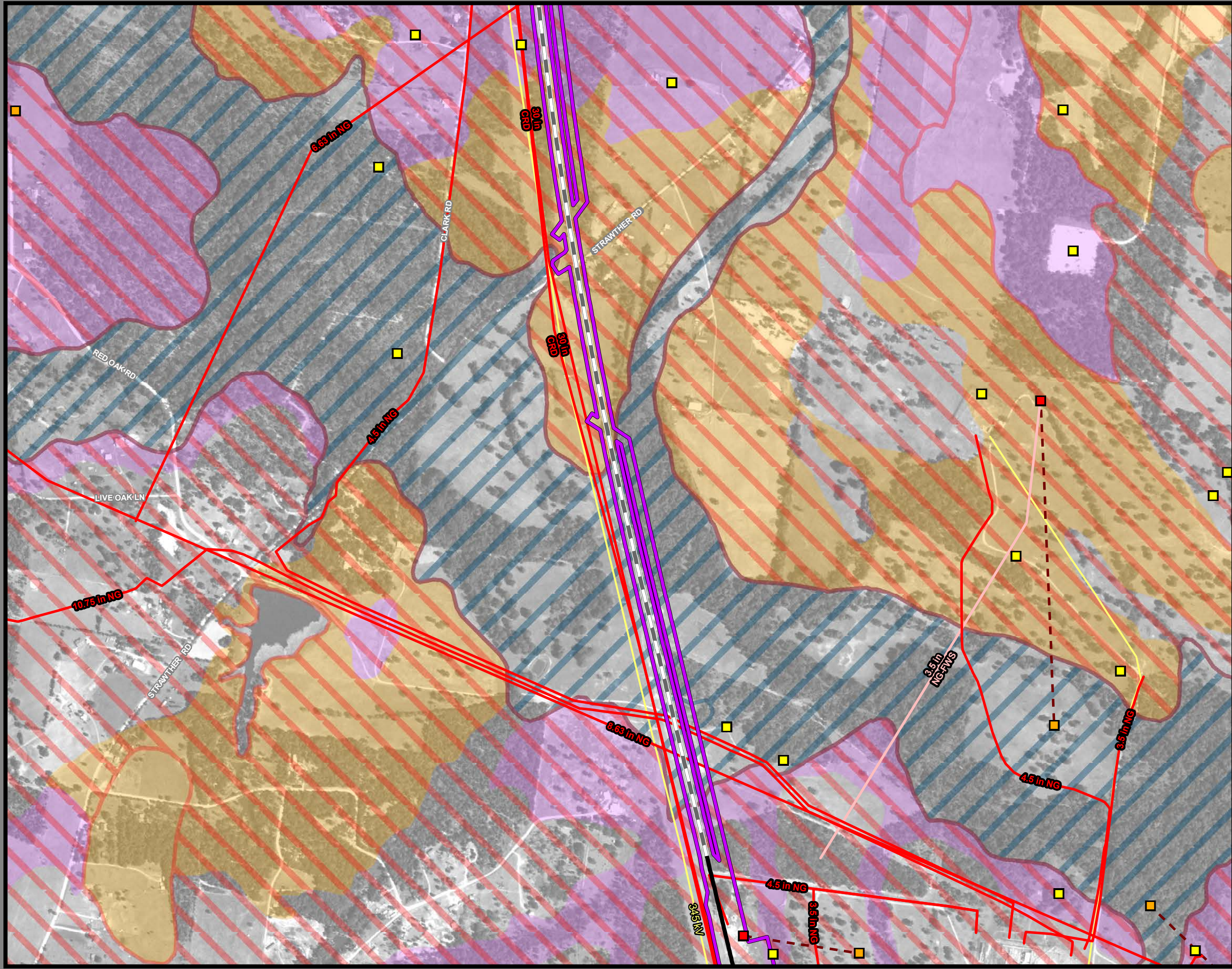
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 196 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
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Segment 3C	Vertical
Segment 4	Directional: Surface
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	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
 *Utility and pipeline locations depicted on this map include those identified in publicly available information (TxRRC 2018). The Utility crossings shown here are those that have been identified by TCRR and their contractors (ARUP, 2019) during engineering design and coordination with utility providers. It is anticipated that, prior to construction, additional utilities may be identified through continued coordination with utilities providers and field investigations by TCRR.
Aerial Imagery: USDA NAIP 2016



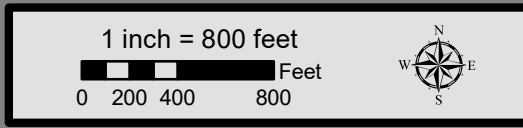


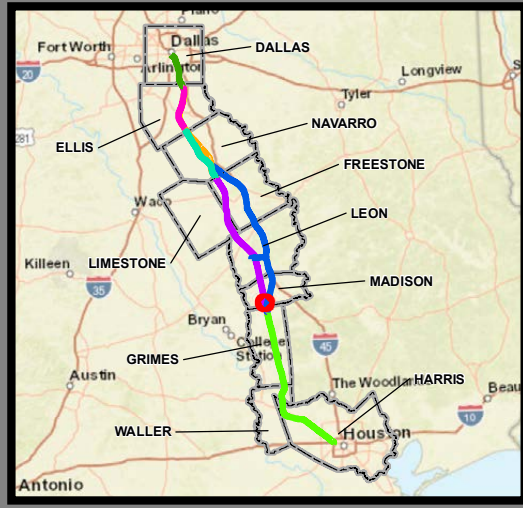
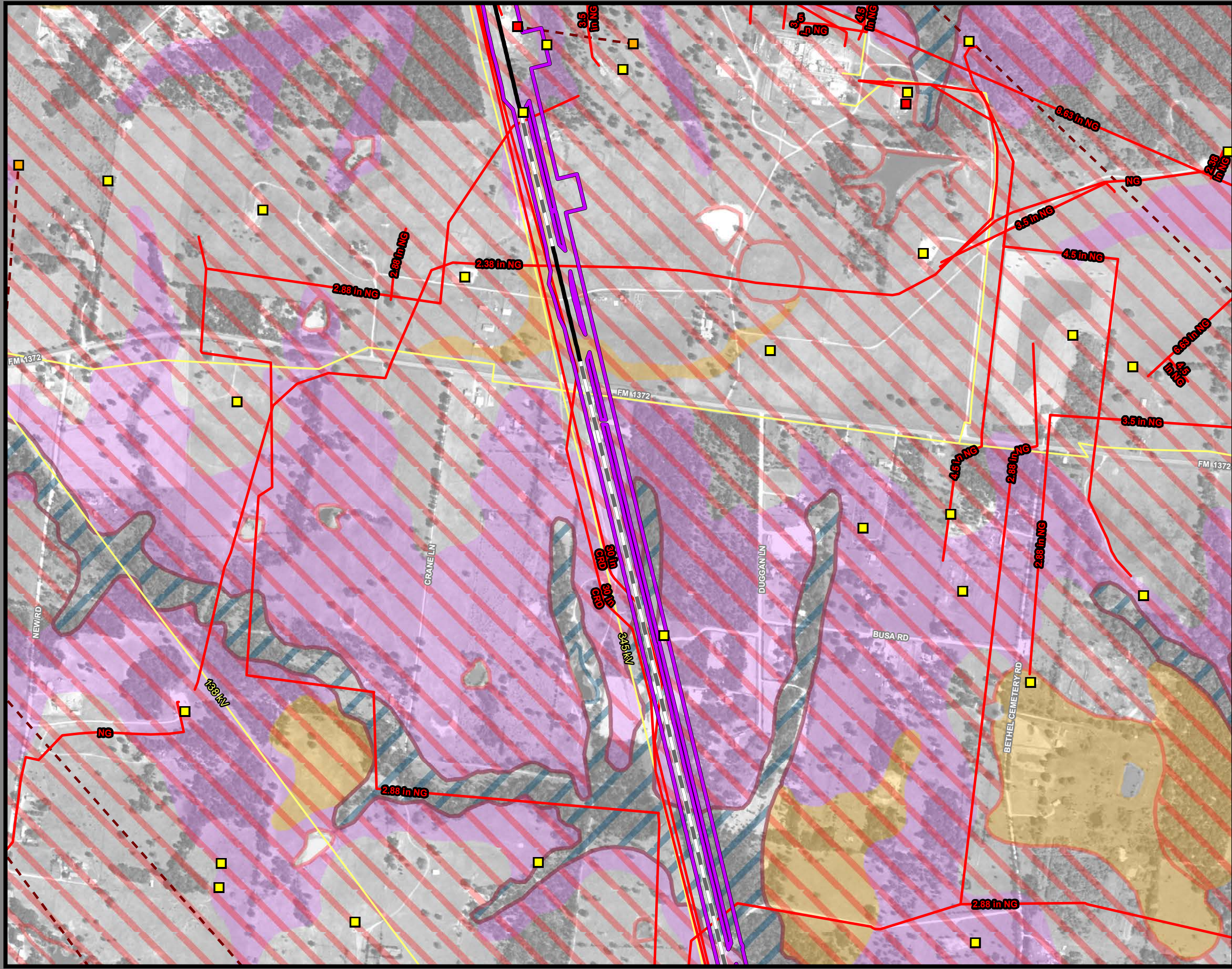
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 197 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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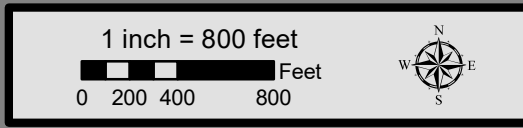


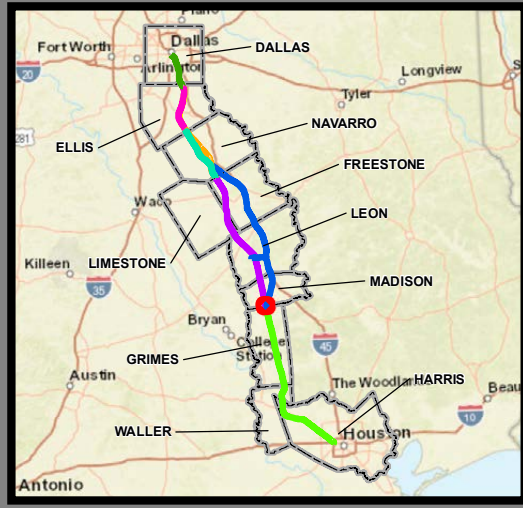
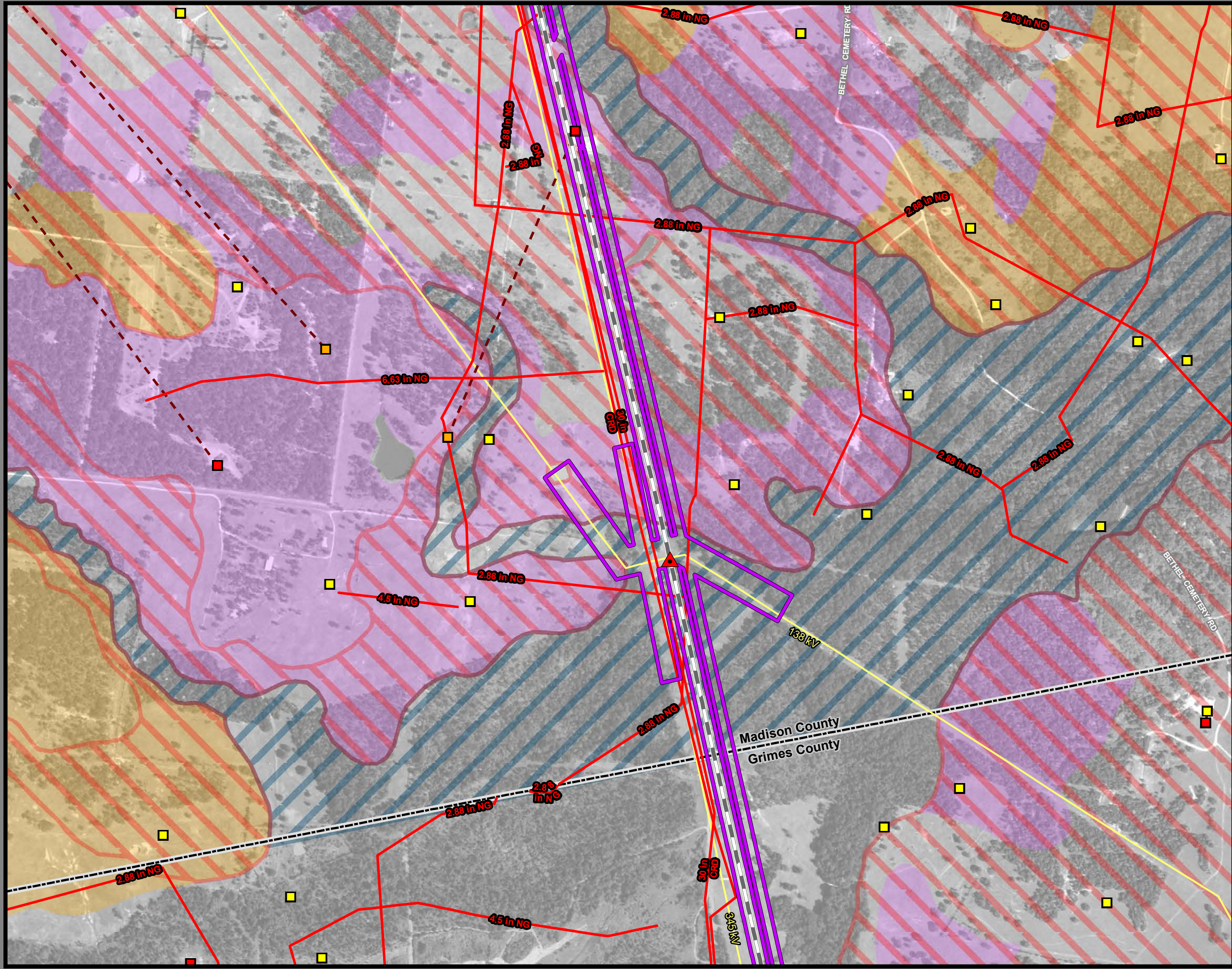
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 198 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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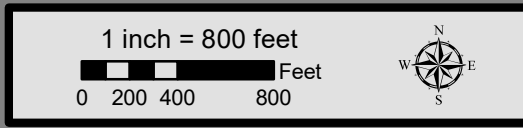
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 199 of 257**

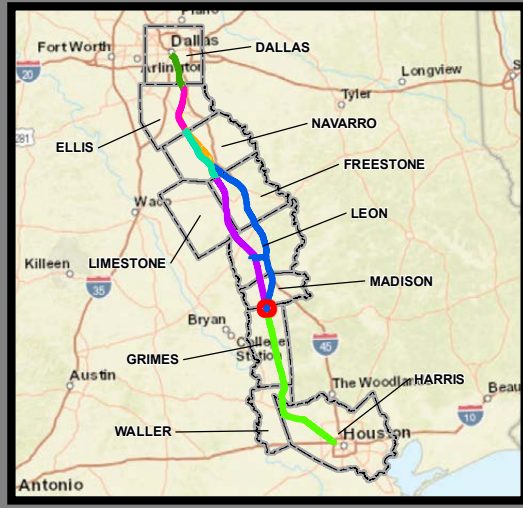
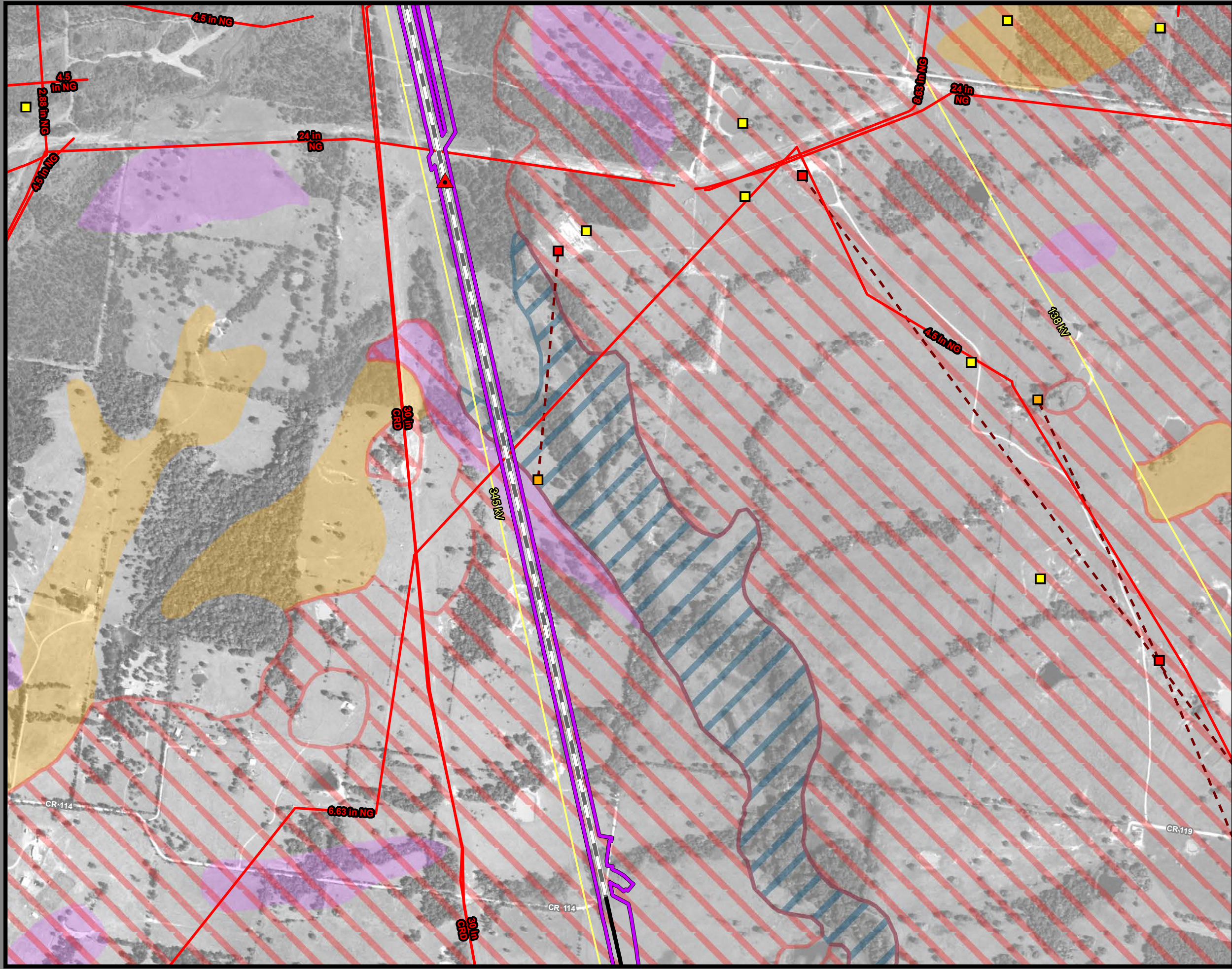
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

This Sheet only depicts Segment 4; Segment 3C is also located in this same area and can be referenced on Sheet 150.

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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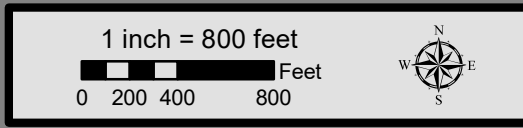
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 200 of 257**

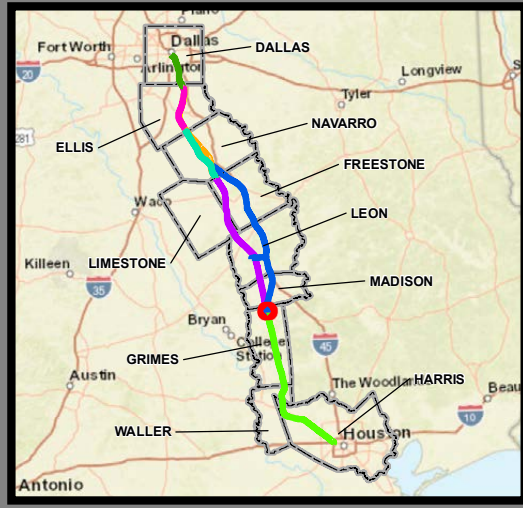
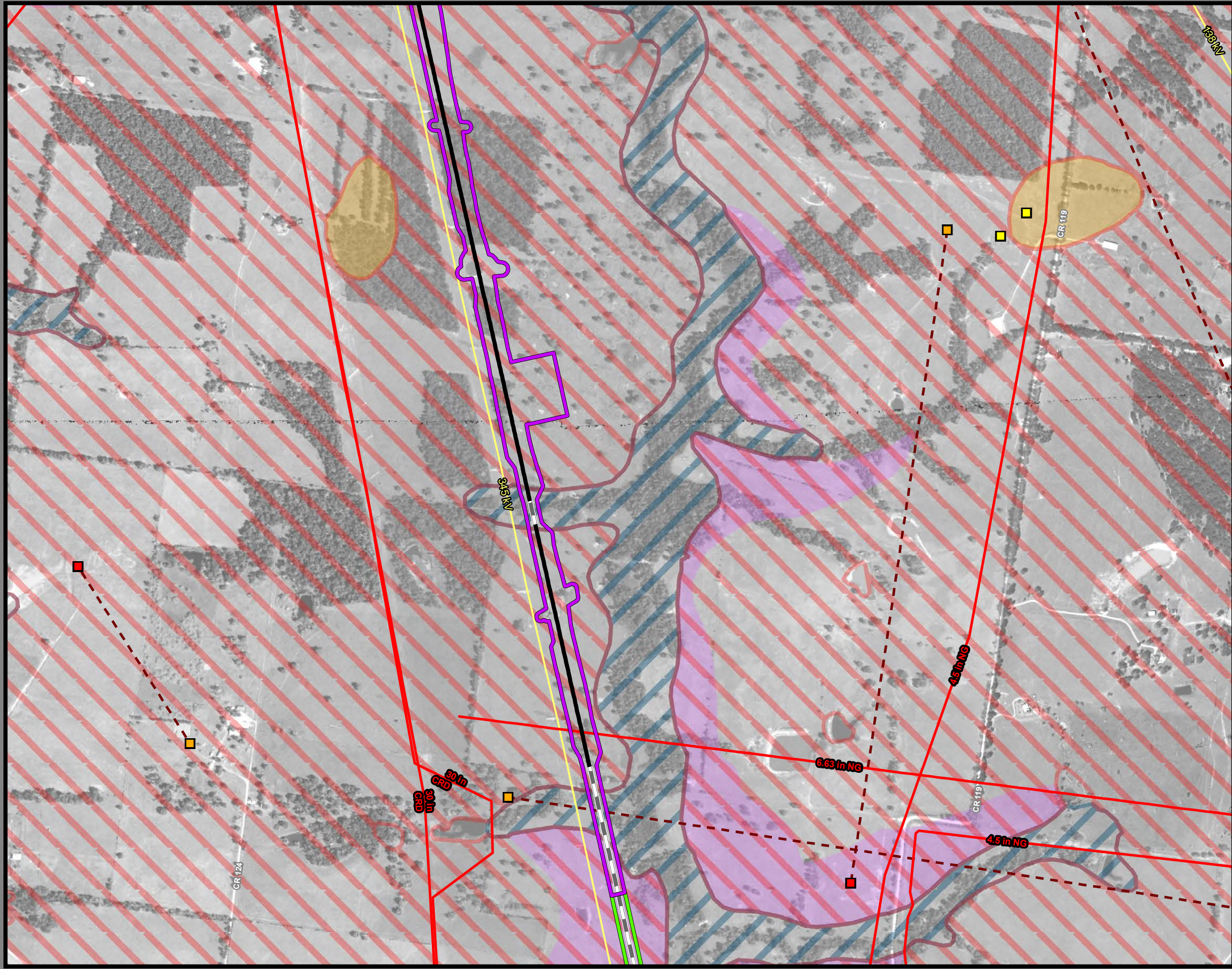
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

This Sheet only depicts Segment 4; Segment 3C is also located in this same area and can be referenced on Sheet 151.

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016





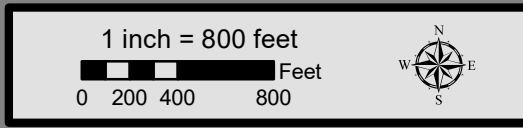
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4, 5
Sheet 201 of 257**

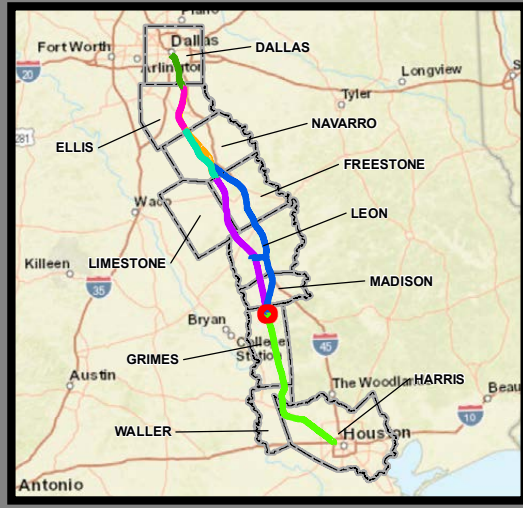
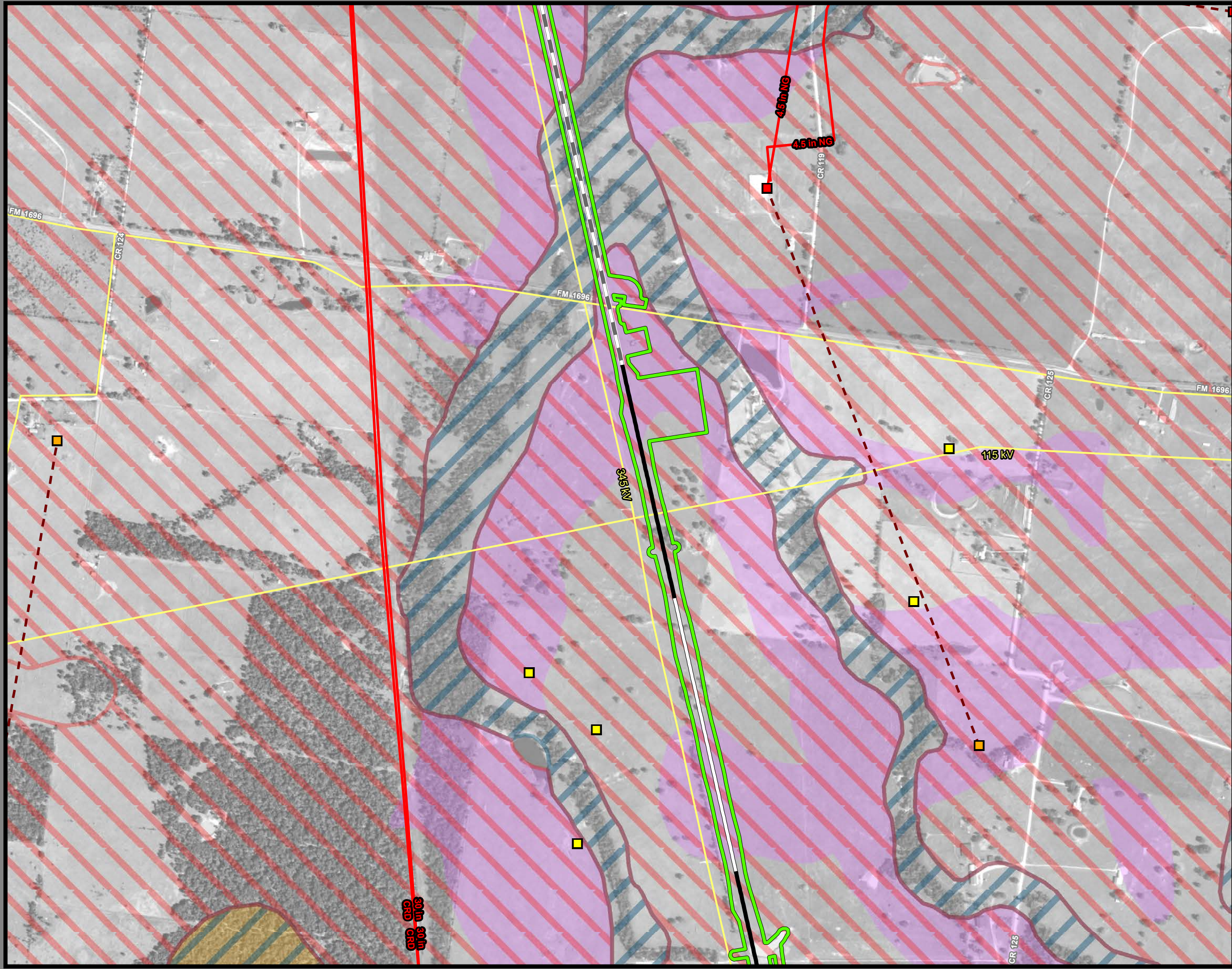
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

This Sheet only depicts Segments 4 & 5; Segment 3C is also located in this same area and can be referenced on Sheet 152.

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



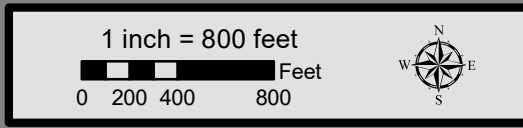


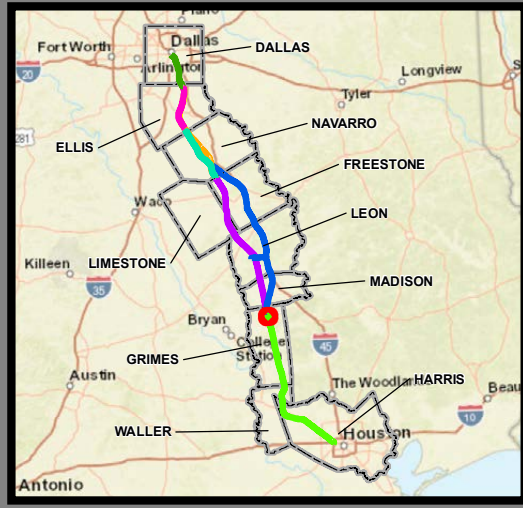
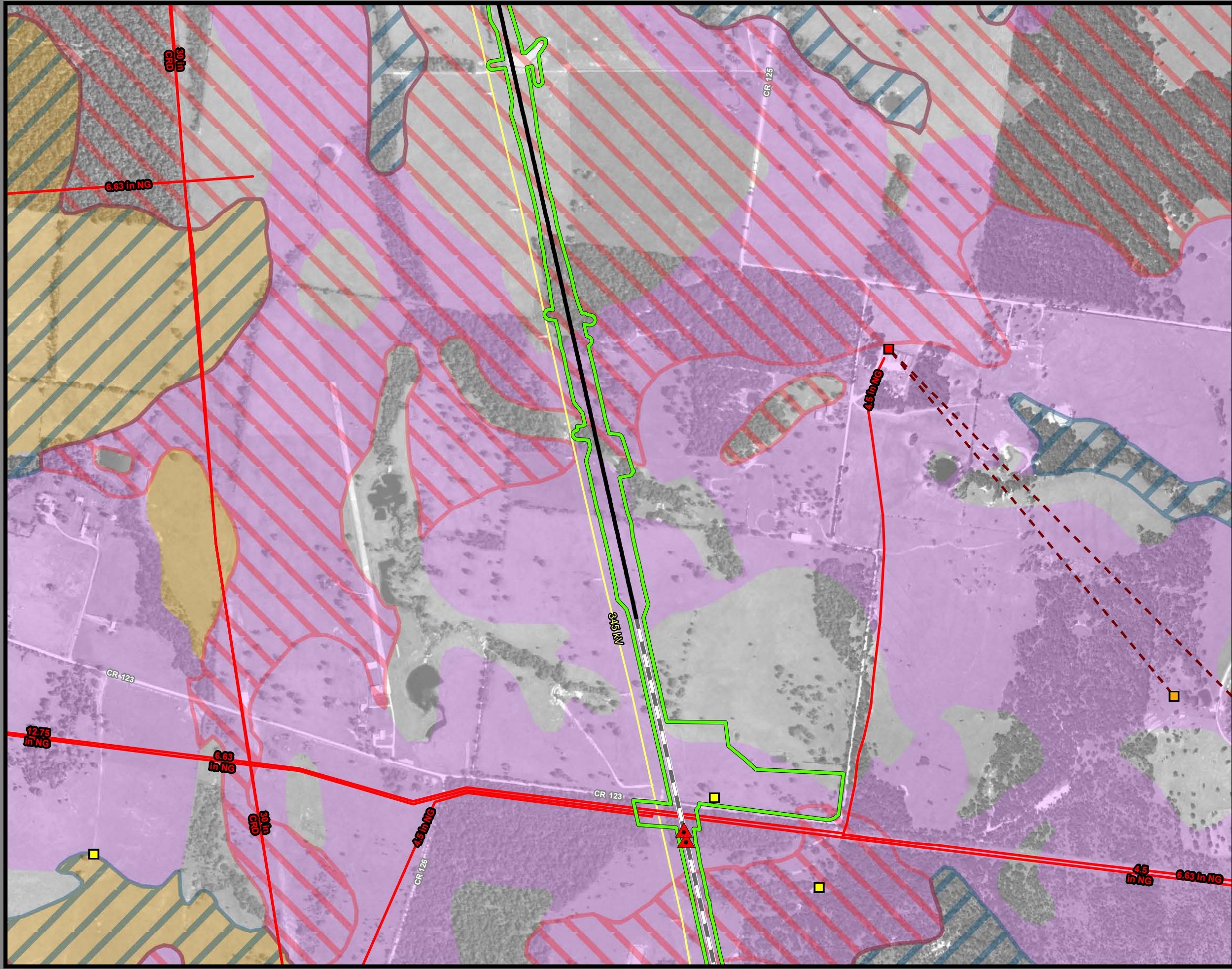
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 202 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



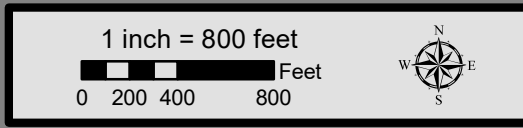


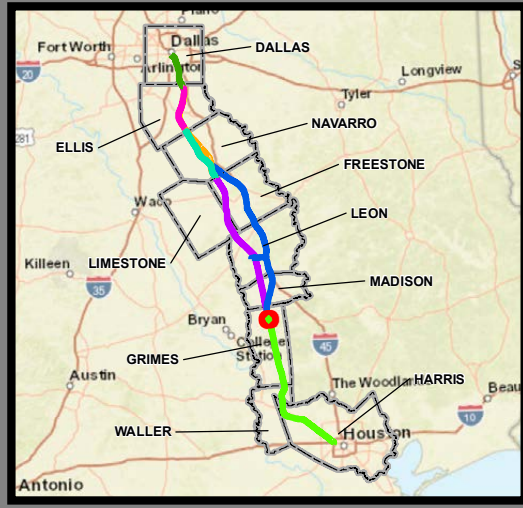
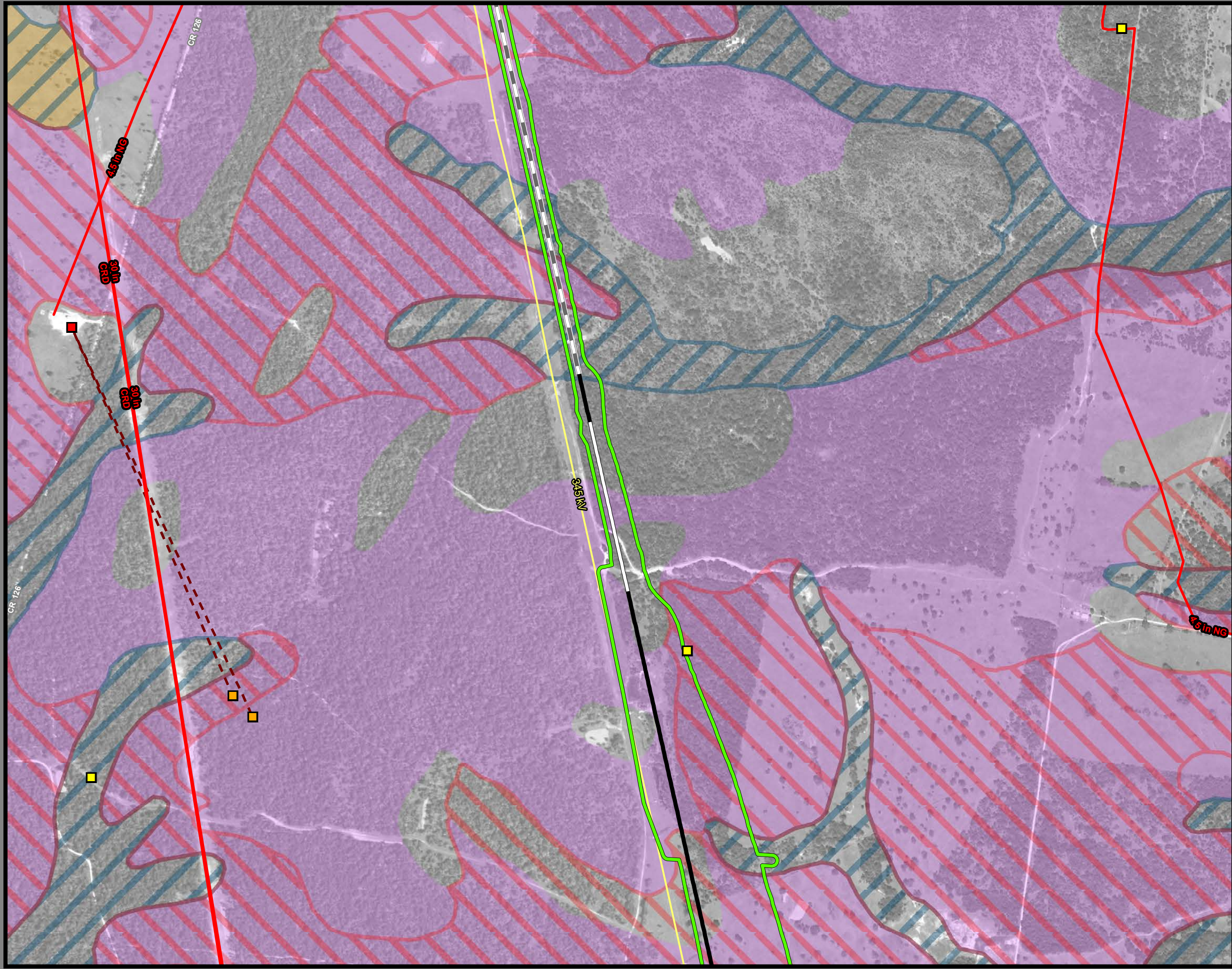
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 203 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



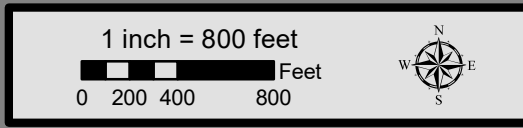


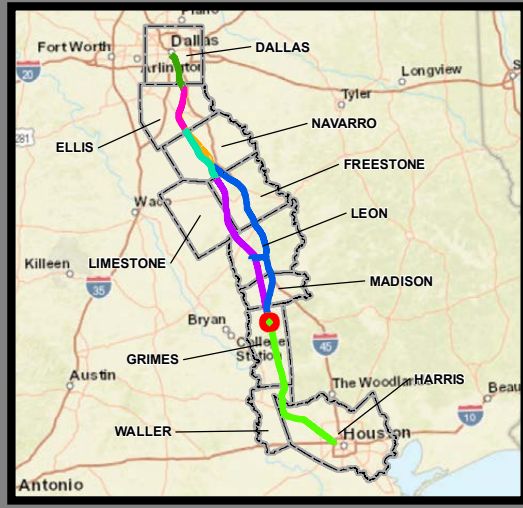
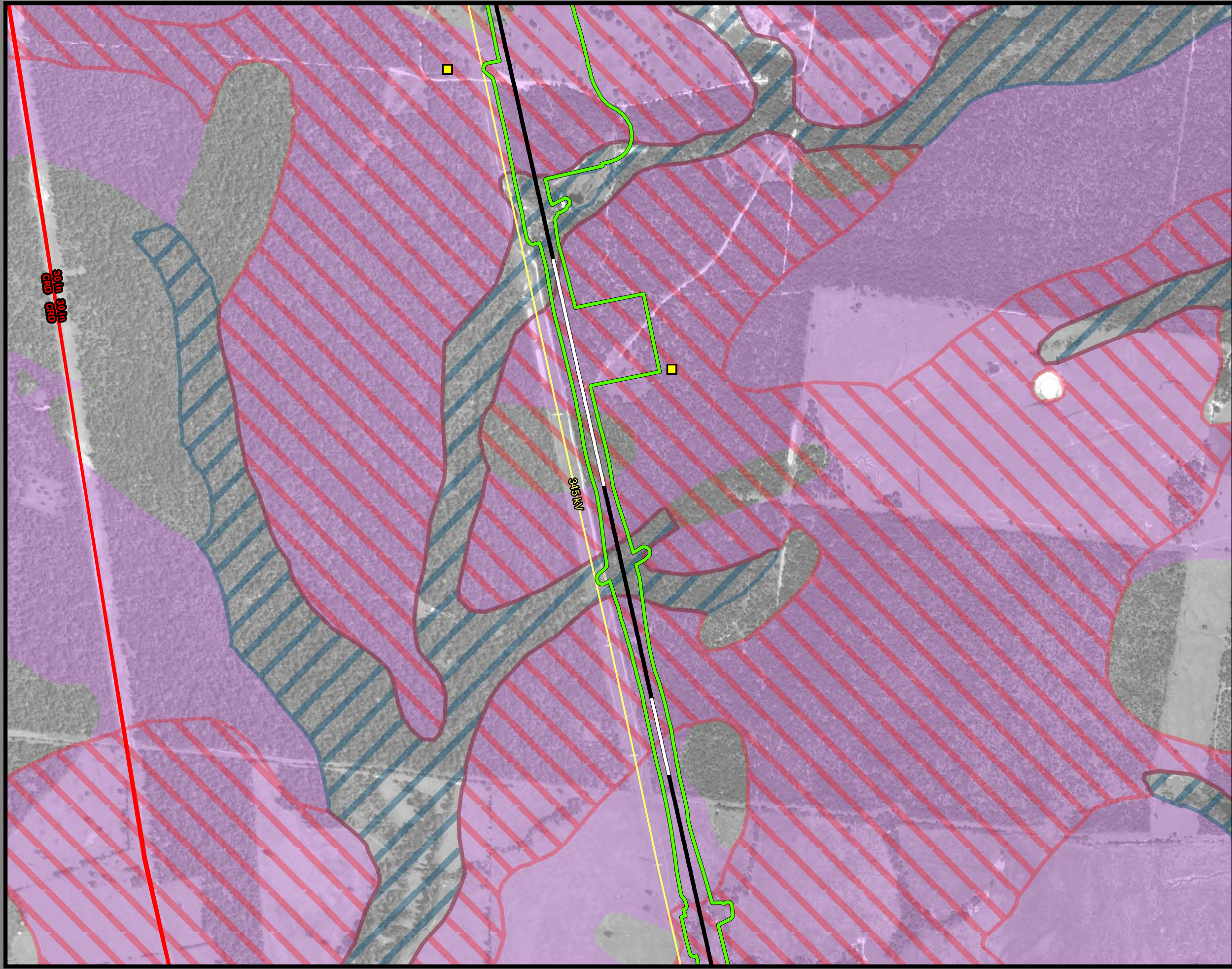
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 204 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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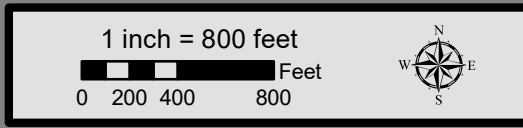


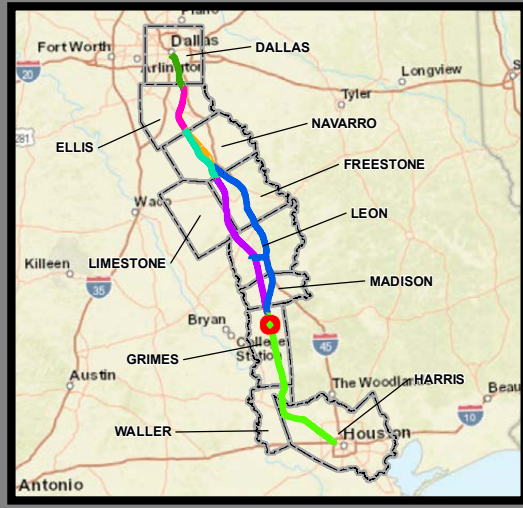
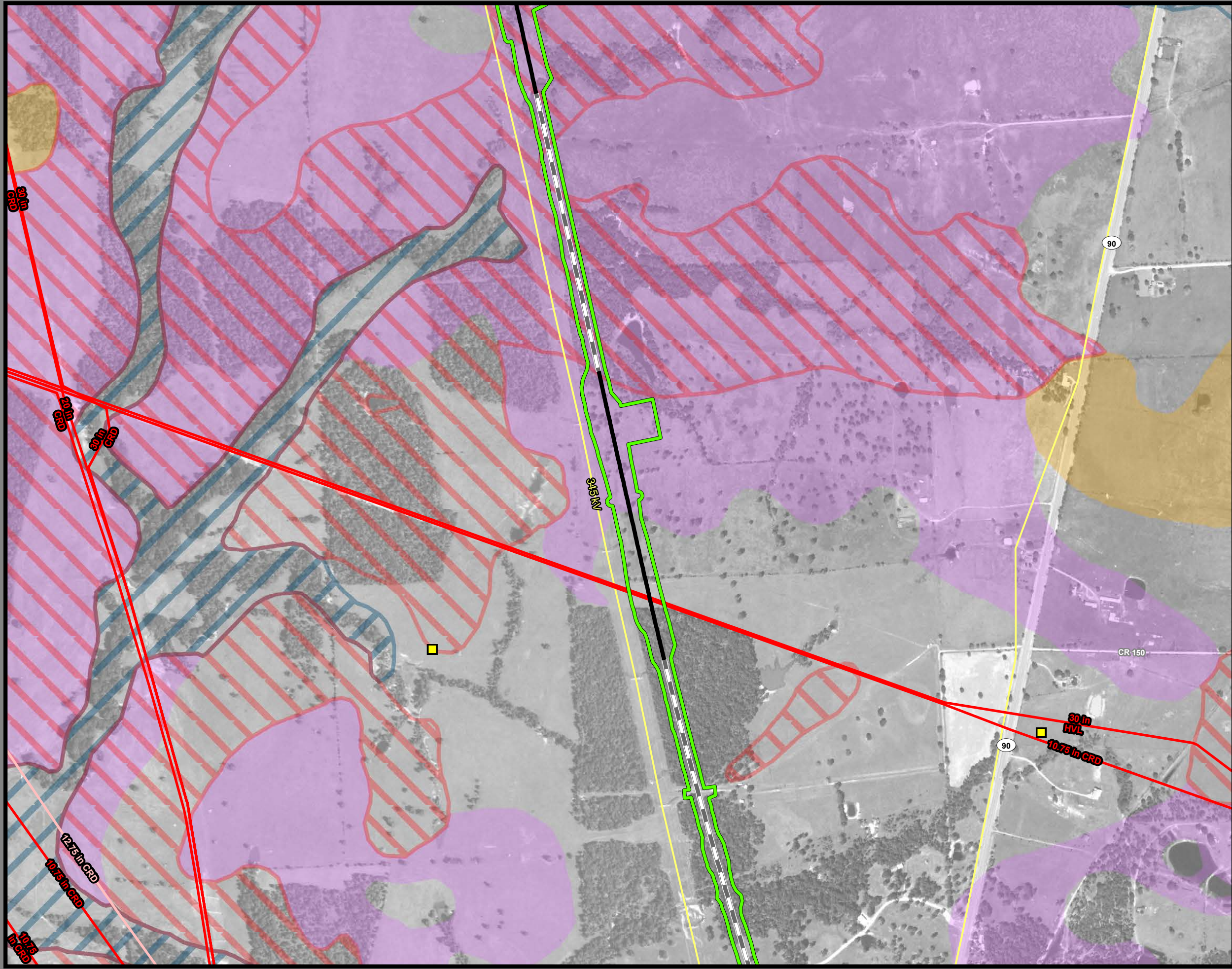
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 205 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



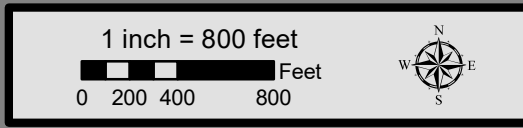


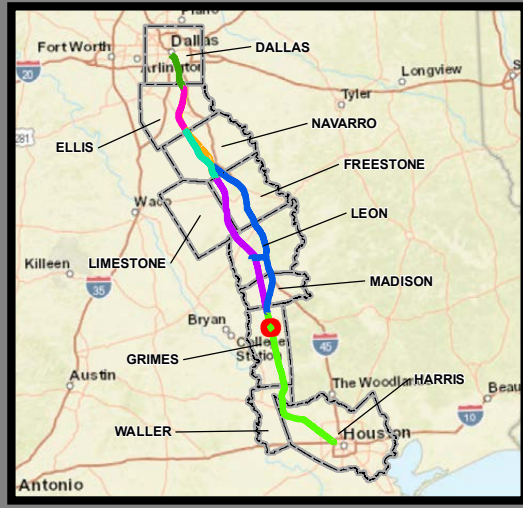
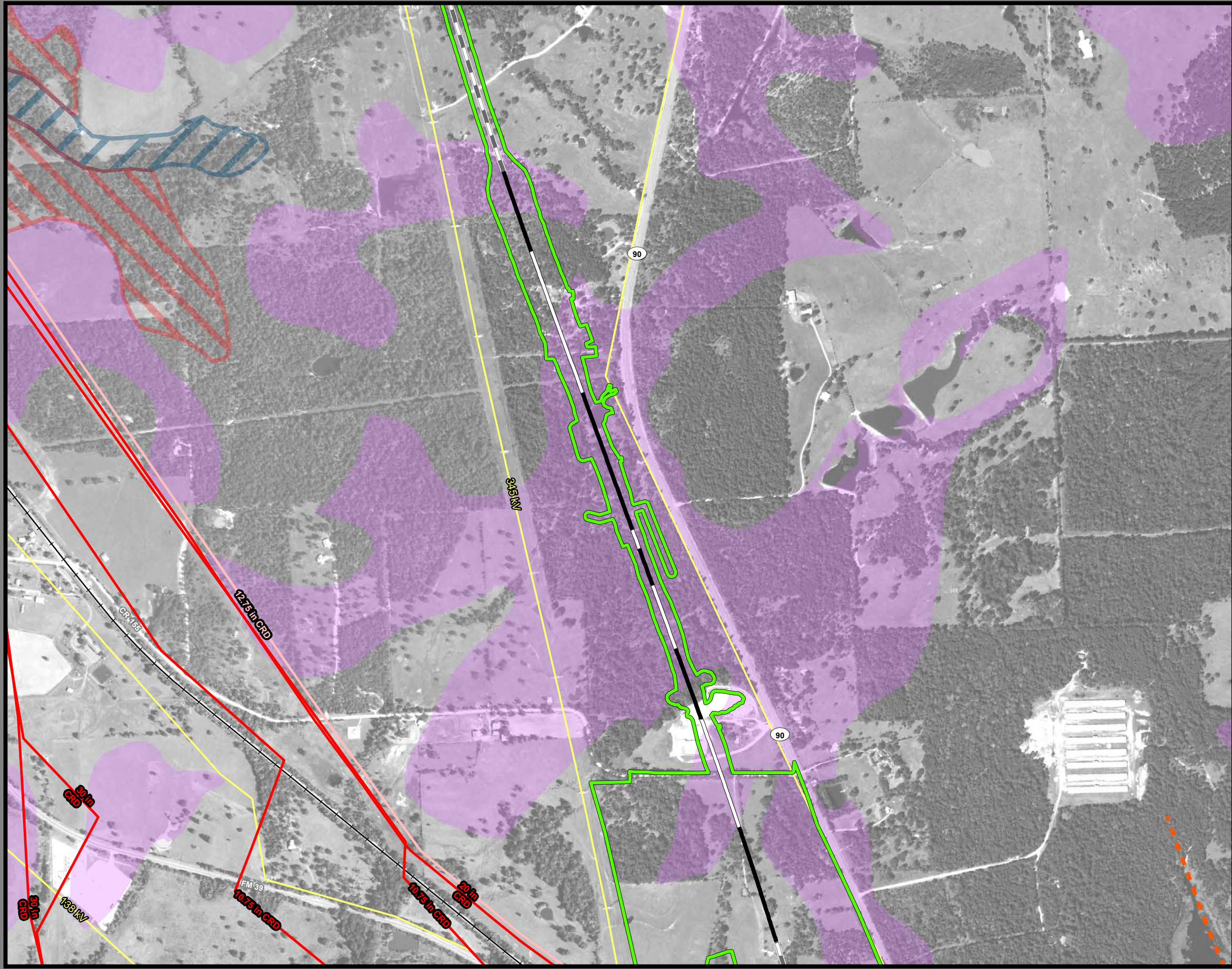
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 206 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data -
 USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric
 Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines -
 TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility
 Crossings - ARUP 2019; ESRI Street Map
 *Utility and pipeline locations depicted on this map include those
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Aerial Imagery: USDA NAIP 2016



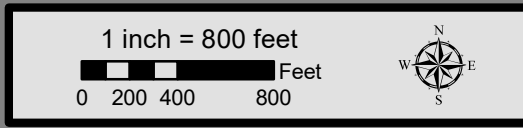


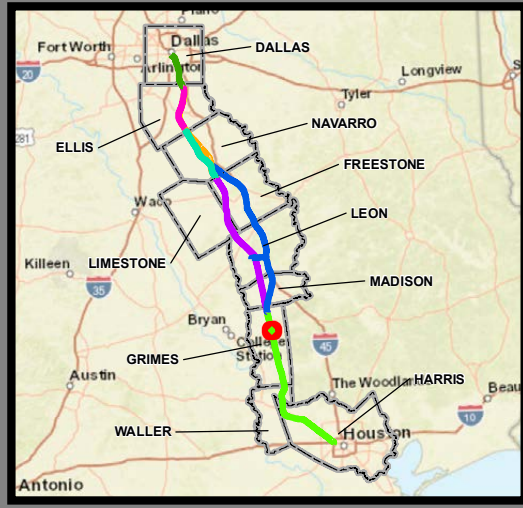
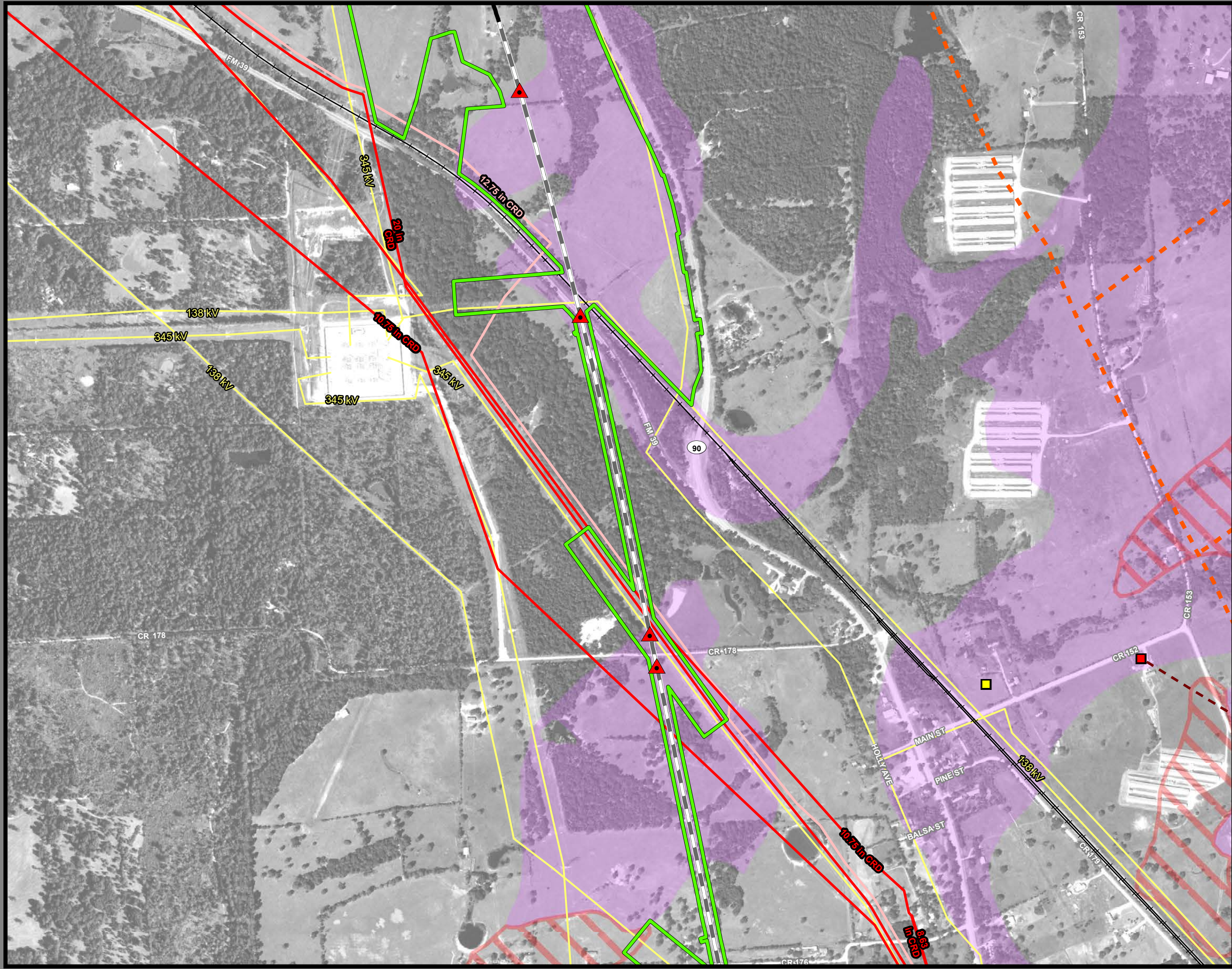
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 207 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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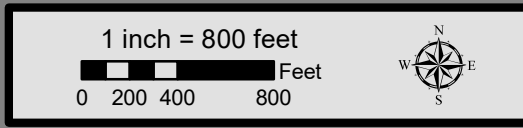


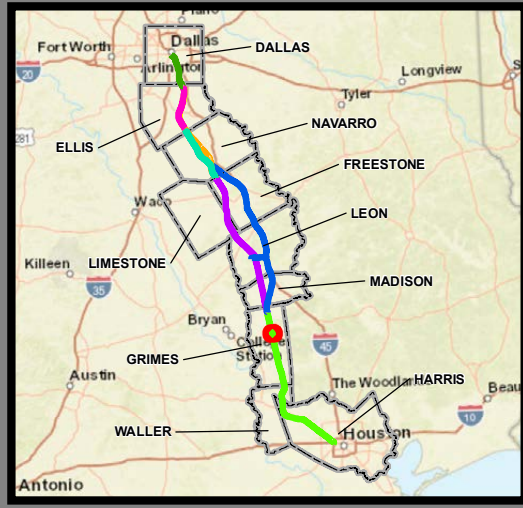
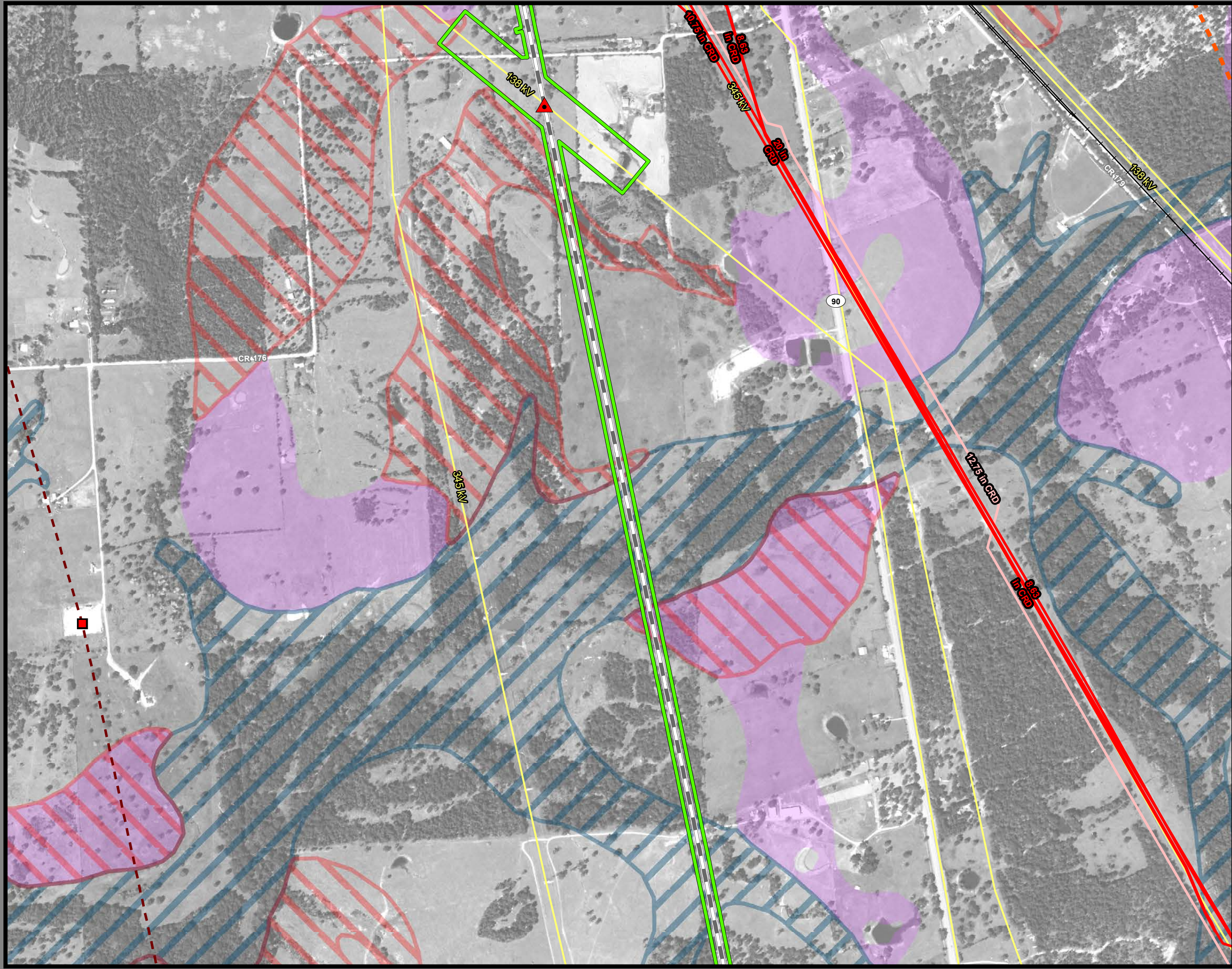
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 208 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1 (Green outline)	Mine (Blue circle)
Segment 2A (Pink outline)	Utility Crossing (Red triangle)
Segment 2B (Yellow outline)	Electric Transmission Line (Yellow line)
Segment 3A (Cyan outline)	Oil/Gas Wells
Segment 3B (Orange outline)	Vertical (Yellow square)
Segment 3C (Blue outline)	Directional: Surface (Red square)
Segment 4 (Purple outline)	Directional: Bottom (Orange square)
Segment 5 (Green outline)	Directional Well Line (Red dashed line)
Track Configuration	Oil/Gas Pipelines
Viaduct (Black dashed line)	Active (Red line)
Embankment (Black solid line)	Abandoned (Orange line)
Cut (White line)	Soils
County Boundary (Black dashed line)	Highly Erosive (Pink area)
Railroad (Black line with cross-ticks)	Hydric (Blue area)
Faults (Dashed orange line)	Prime Farmland (Yellow area)
	Farmland of Statewide Importance (Purple area)
	Prime Farmland if Drained (Cyan area)

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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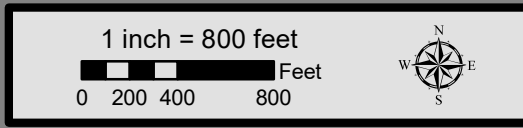


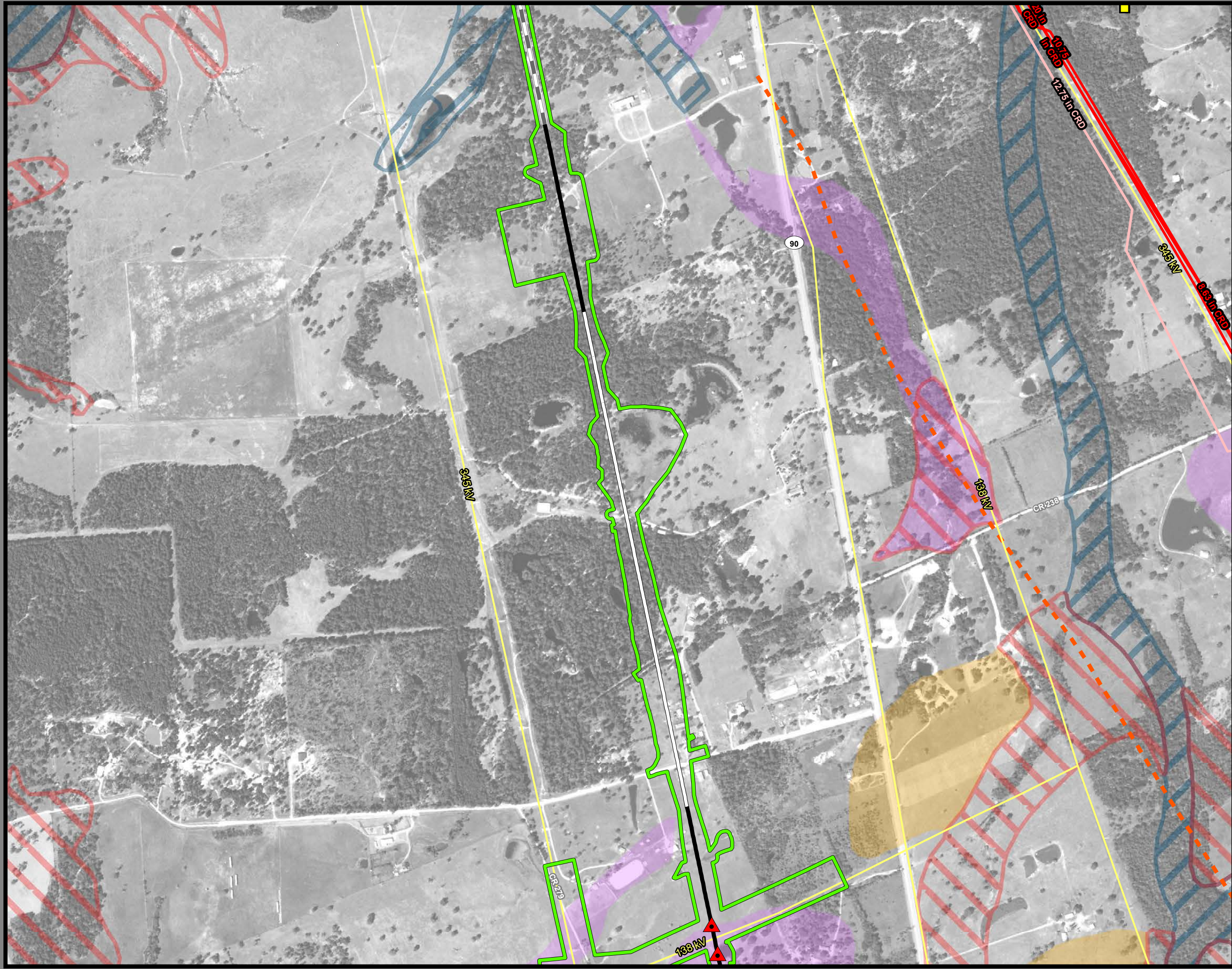
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 209 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
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Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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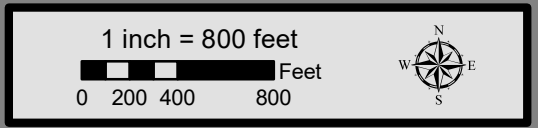


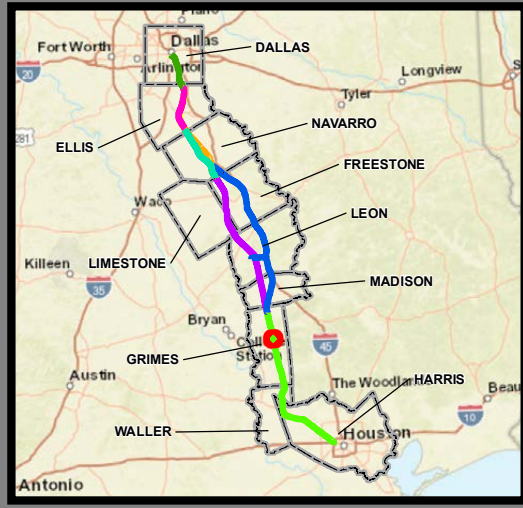
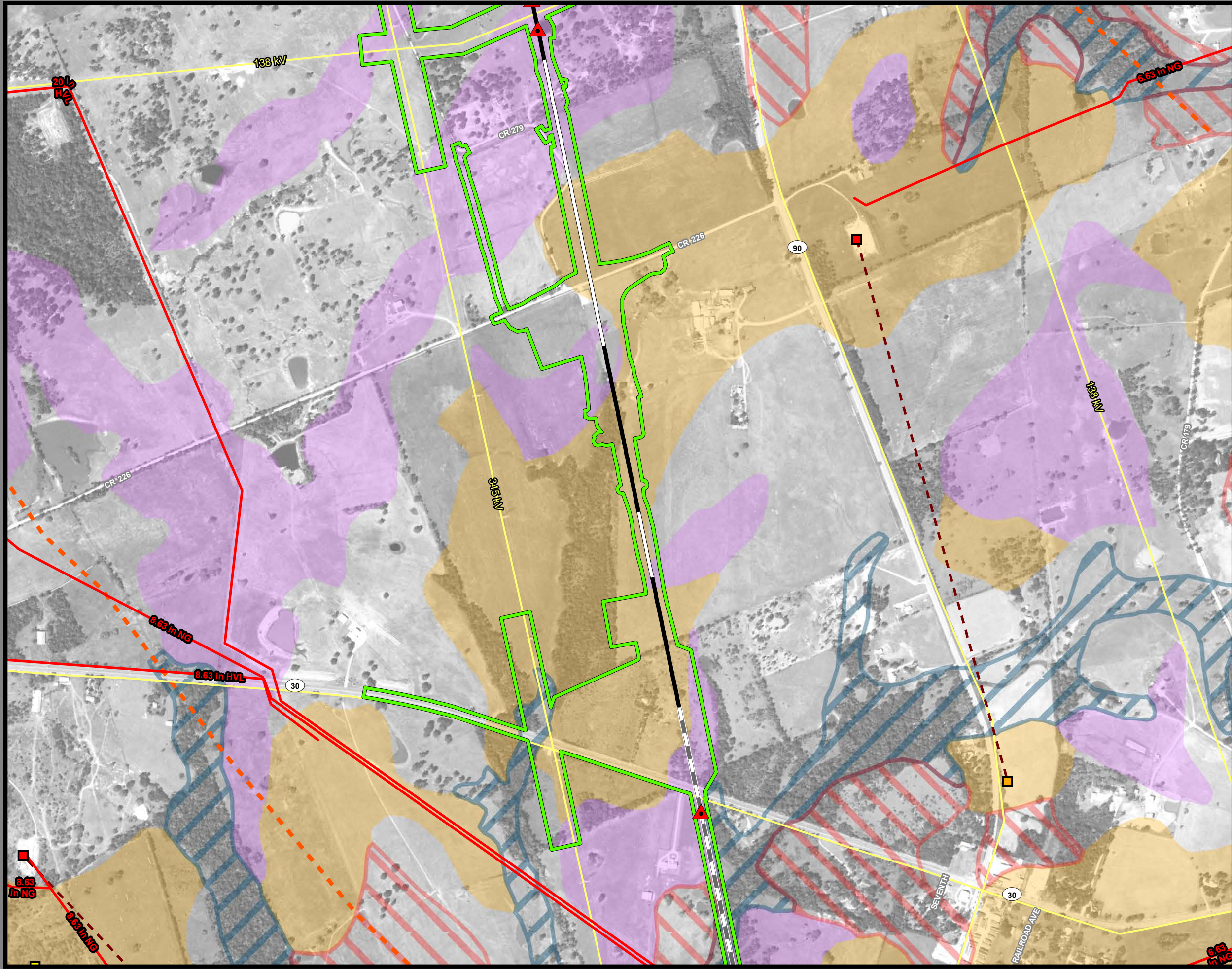
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 210 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data -
 USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric
 Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines -
 TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility
 Crossings - ARUP 2019; ESRI Street Map
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 coordination with utilities providers and field investigations by TCRR.
Aerial Imagery: USDA NAIP 2016



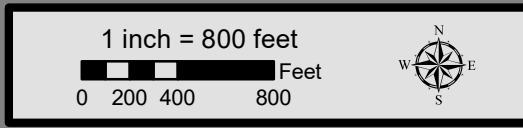


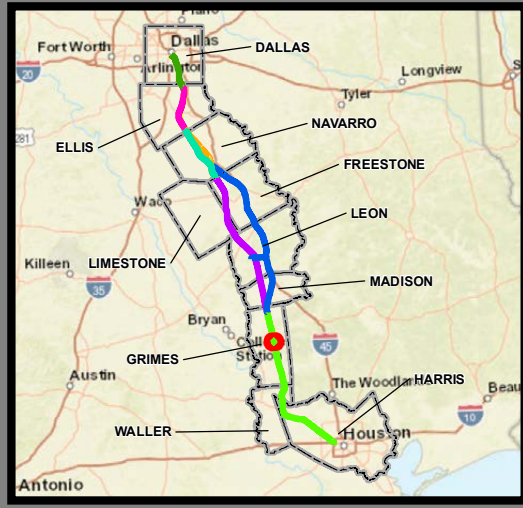
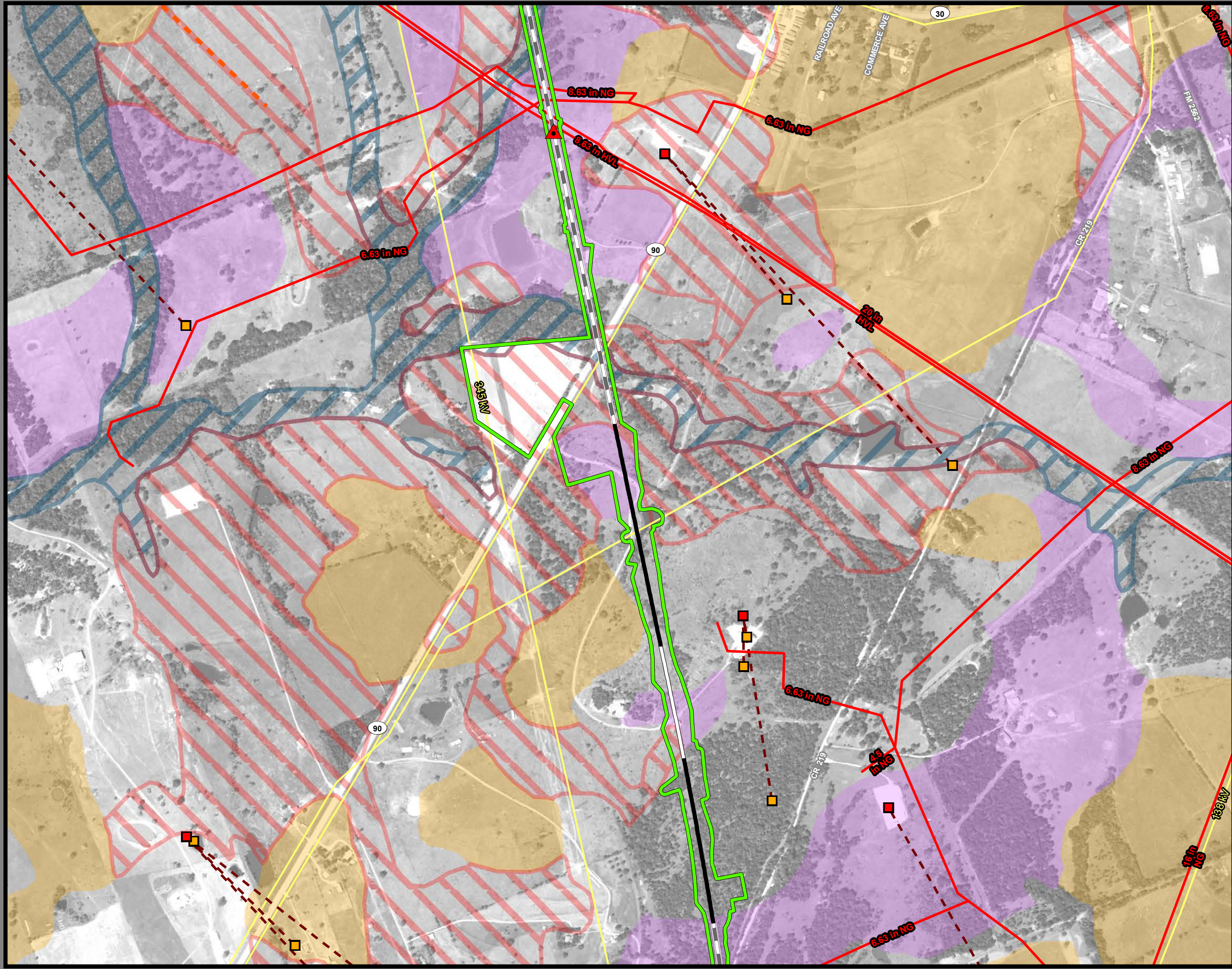
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5, Brazos Valley Intermediate Station
Sheet 211 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
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Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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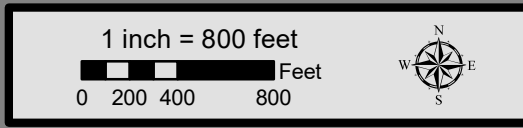


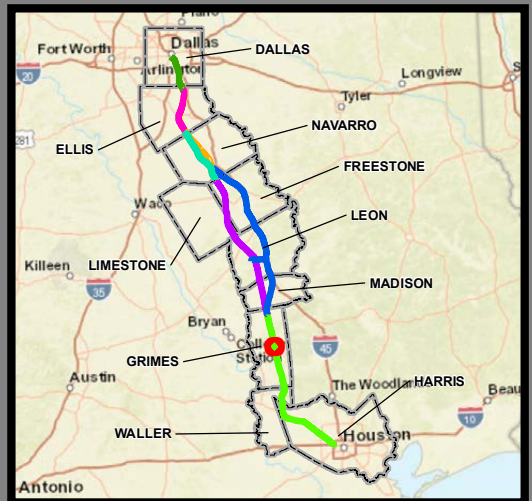
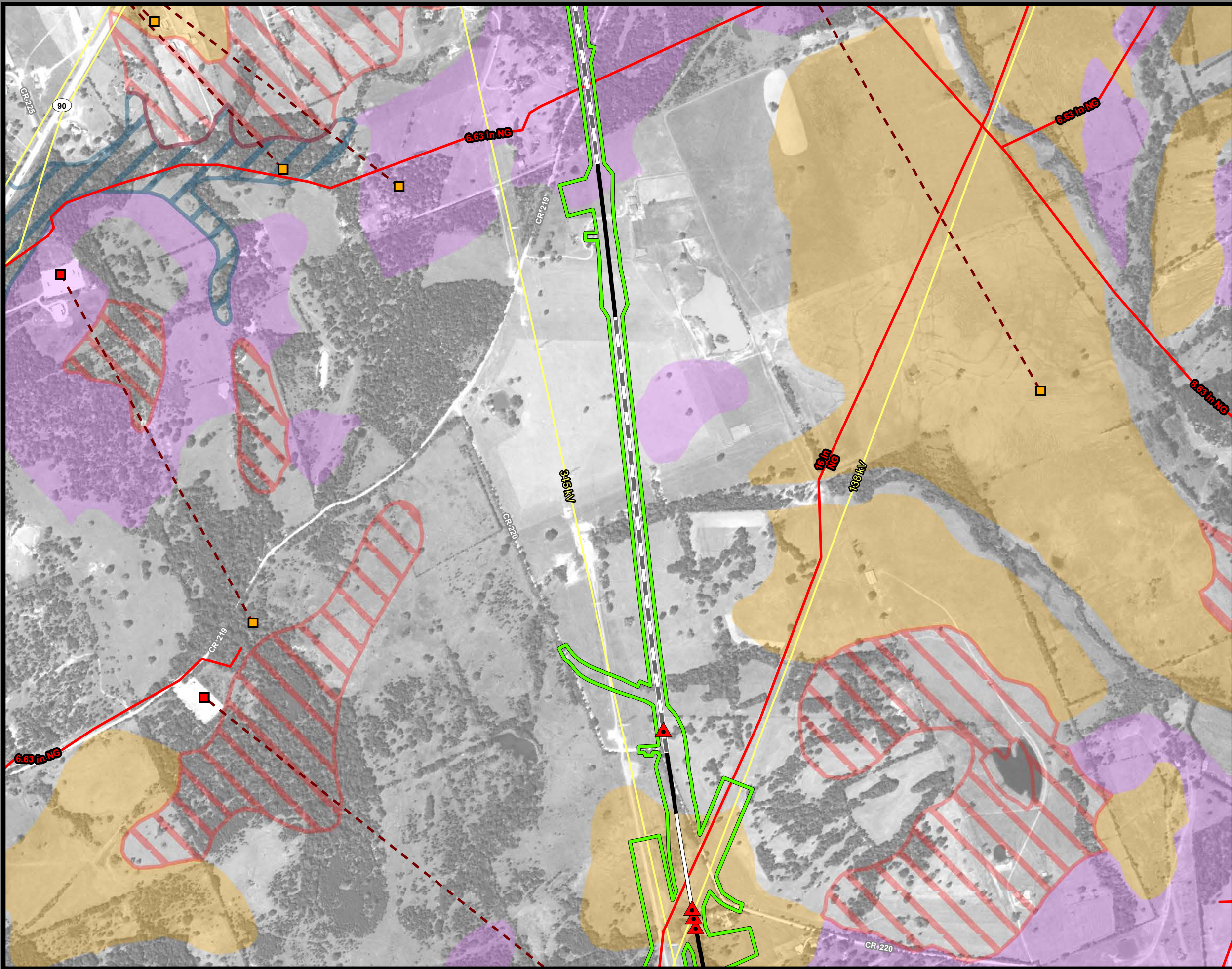
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 212 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
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Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



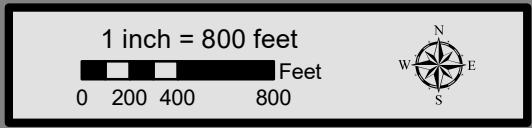


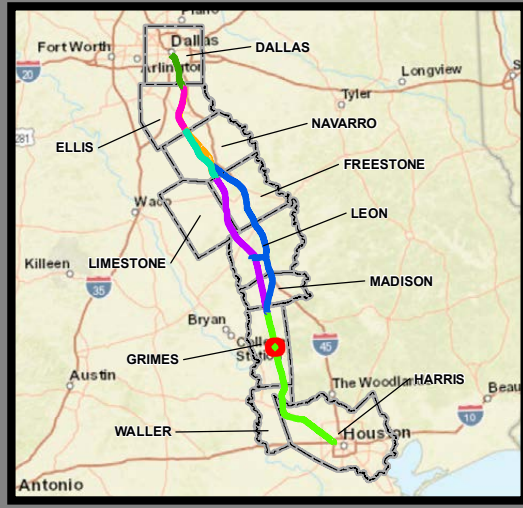
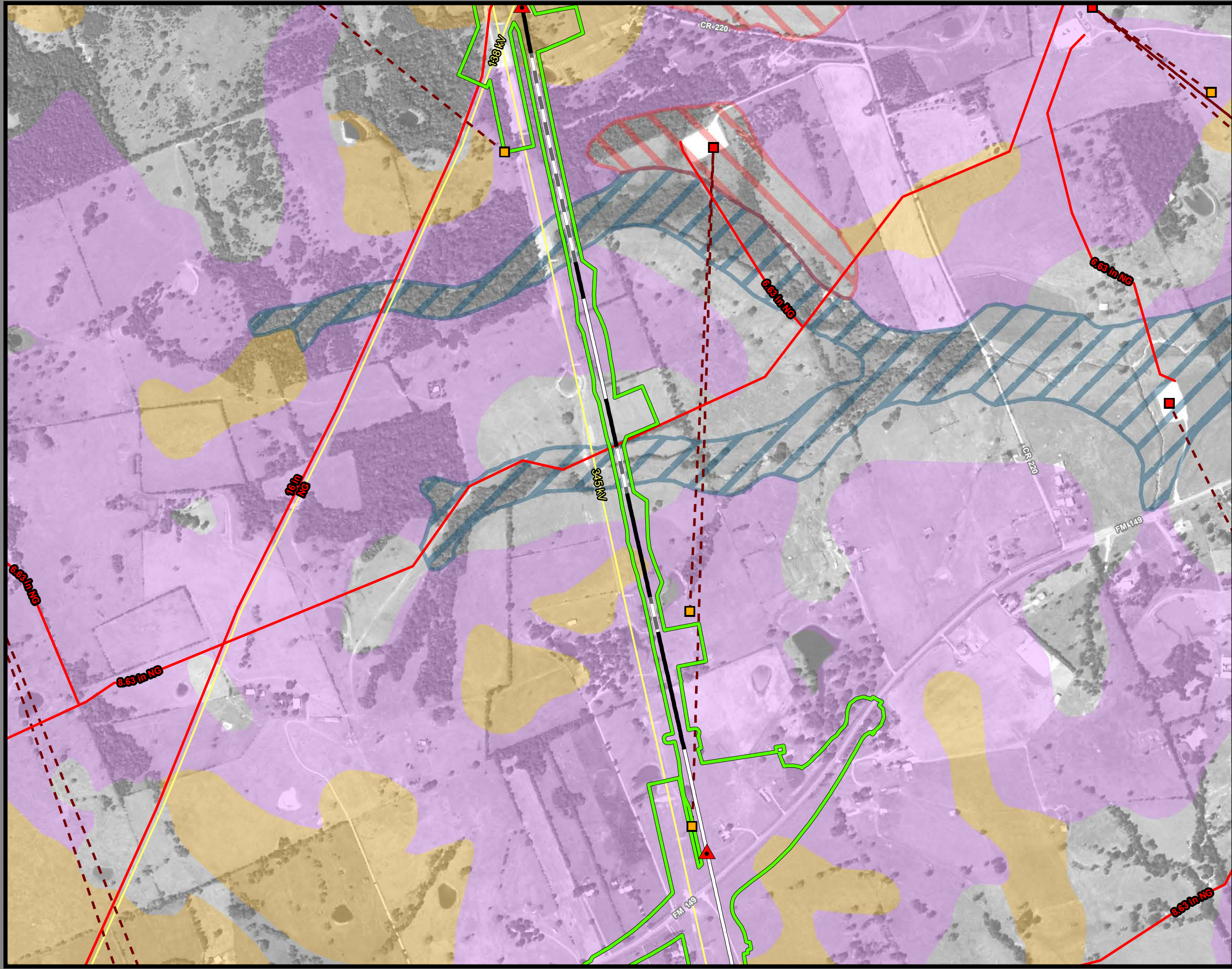
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2016



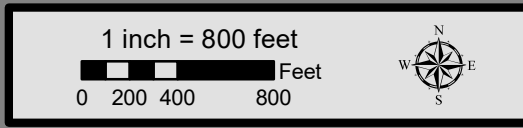


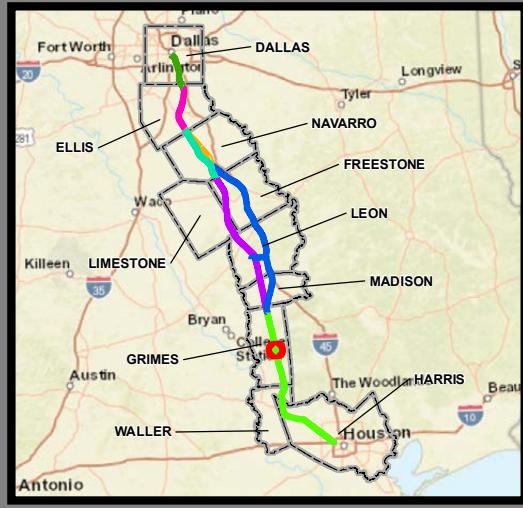
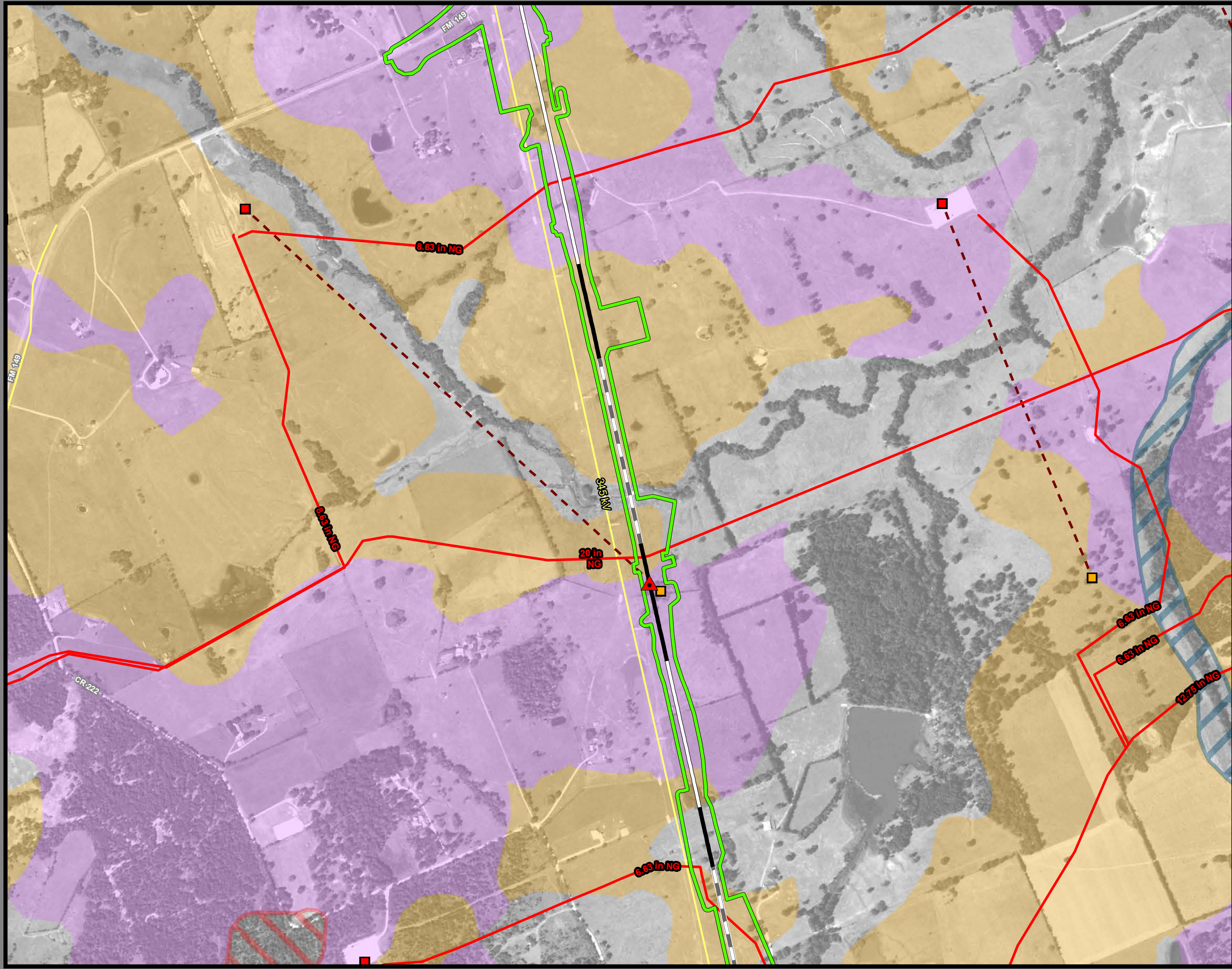
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 214 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2016



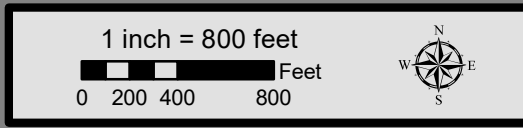


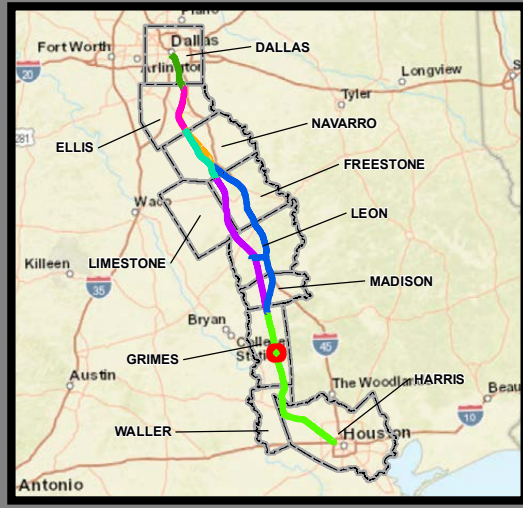
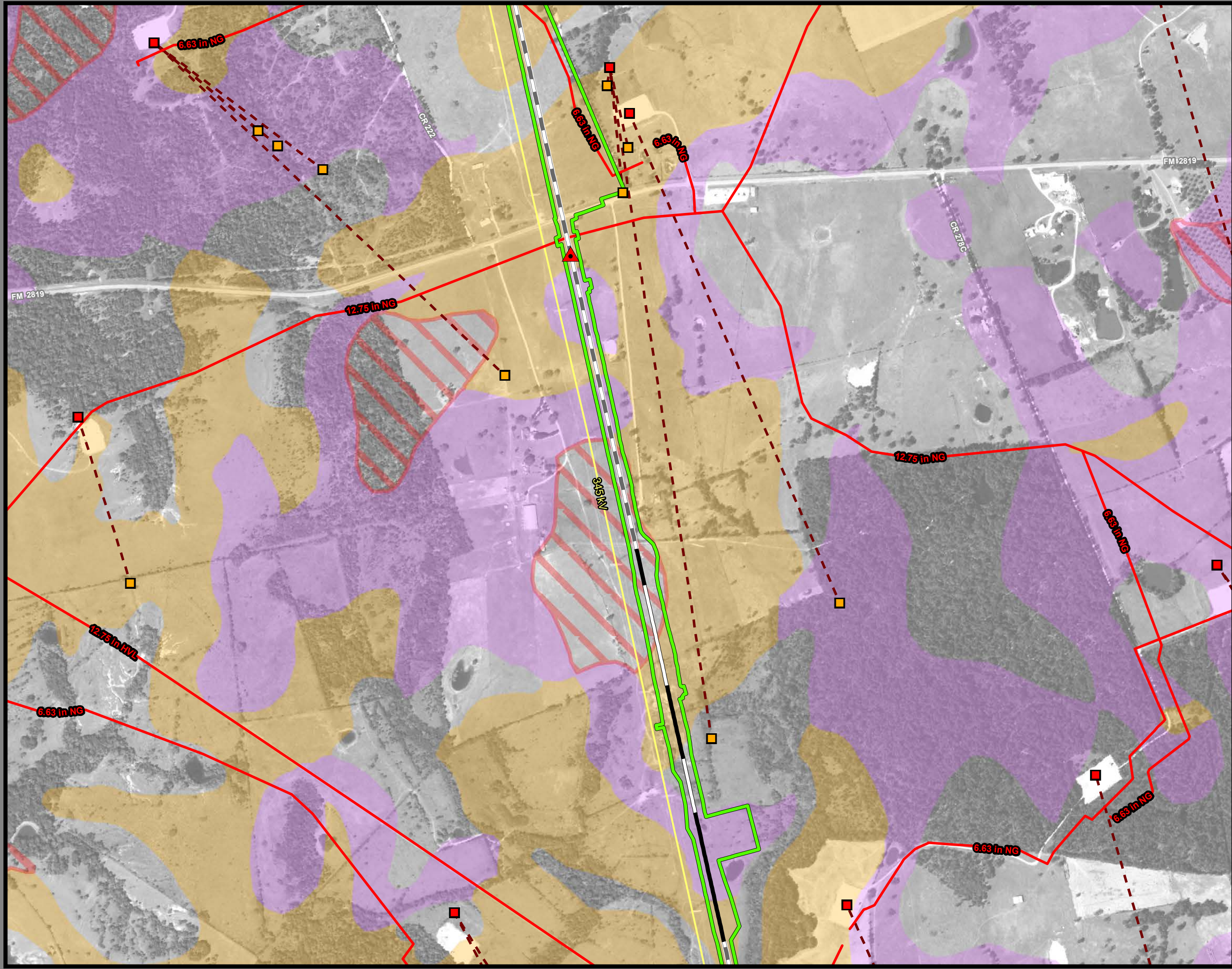
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 215 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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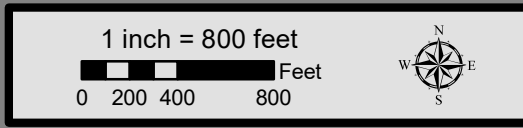


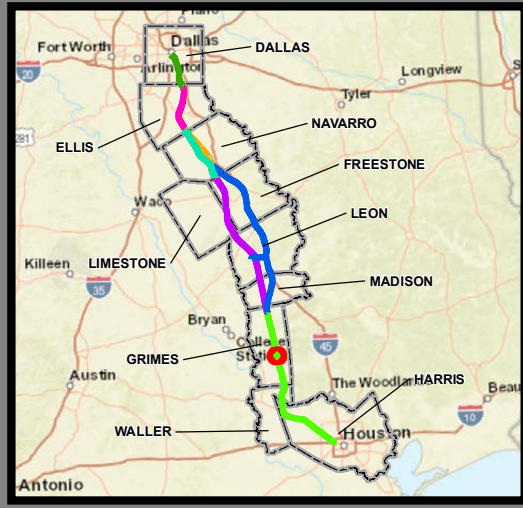
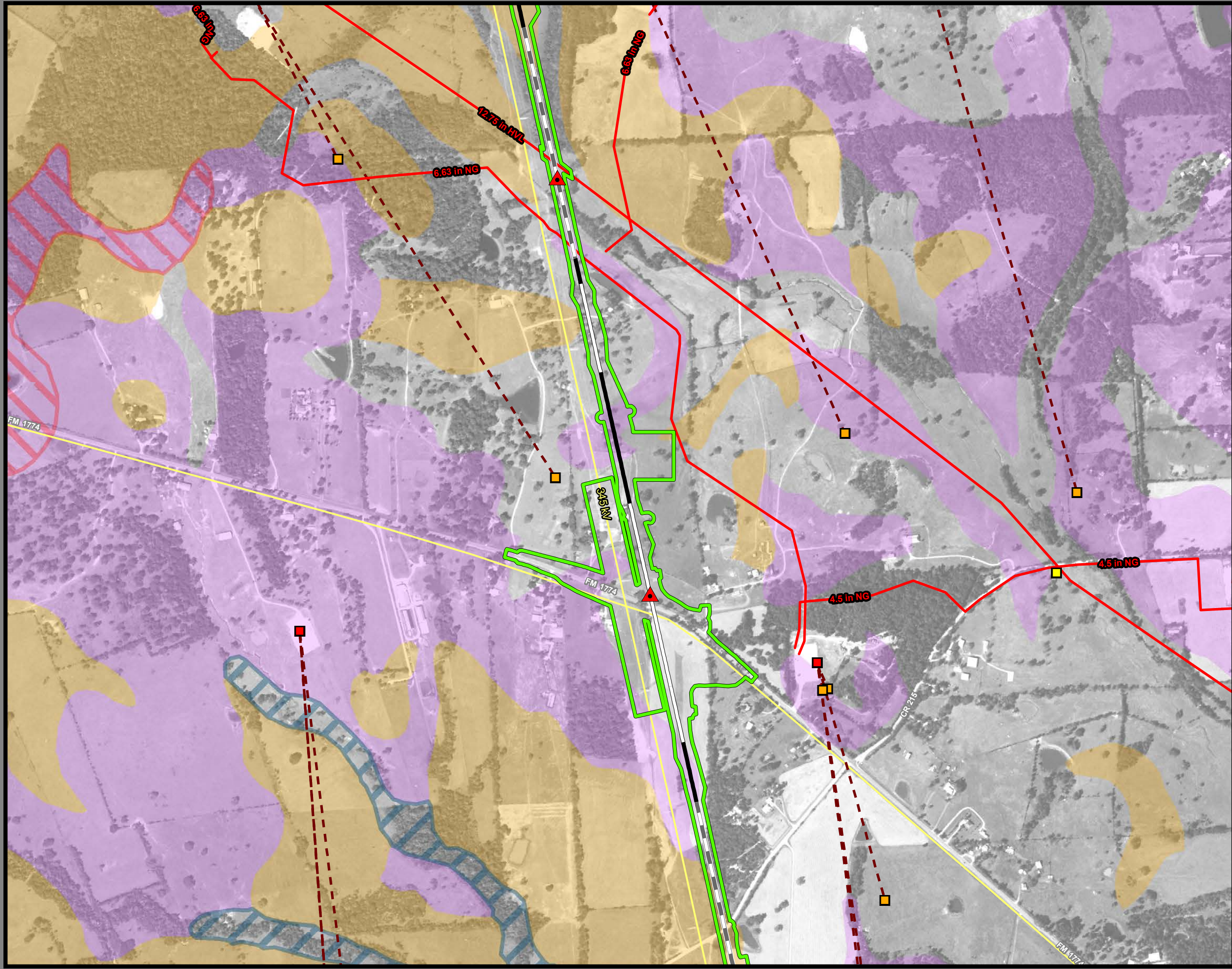
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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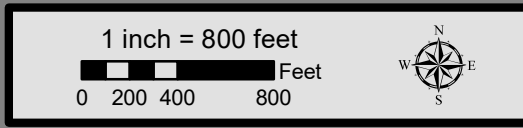


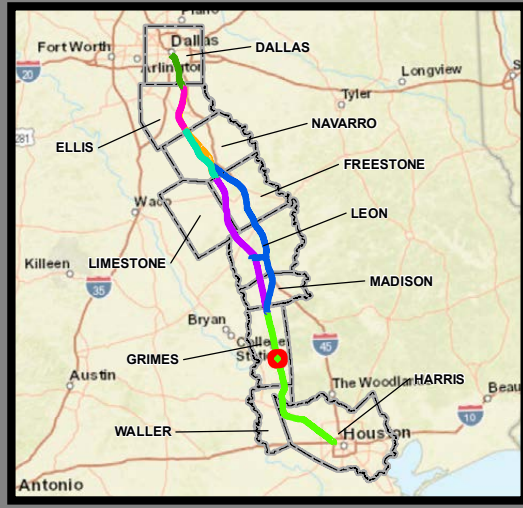
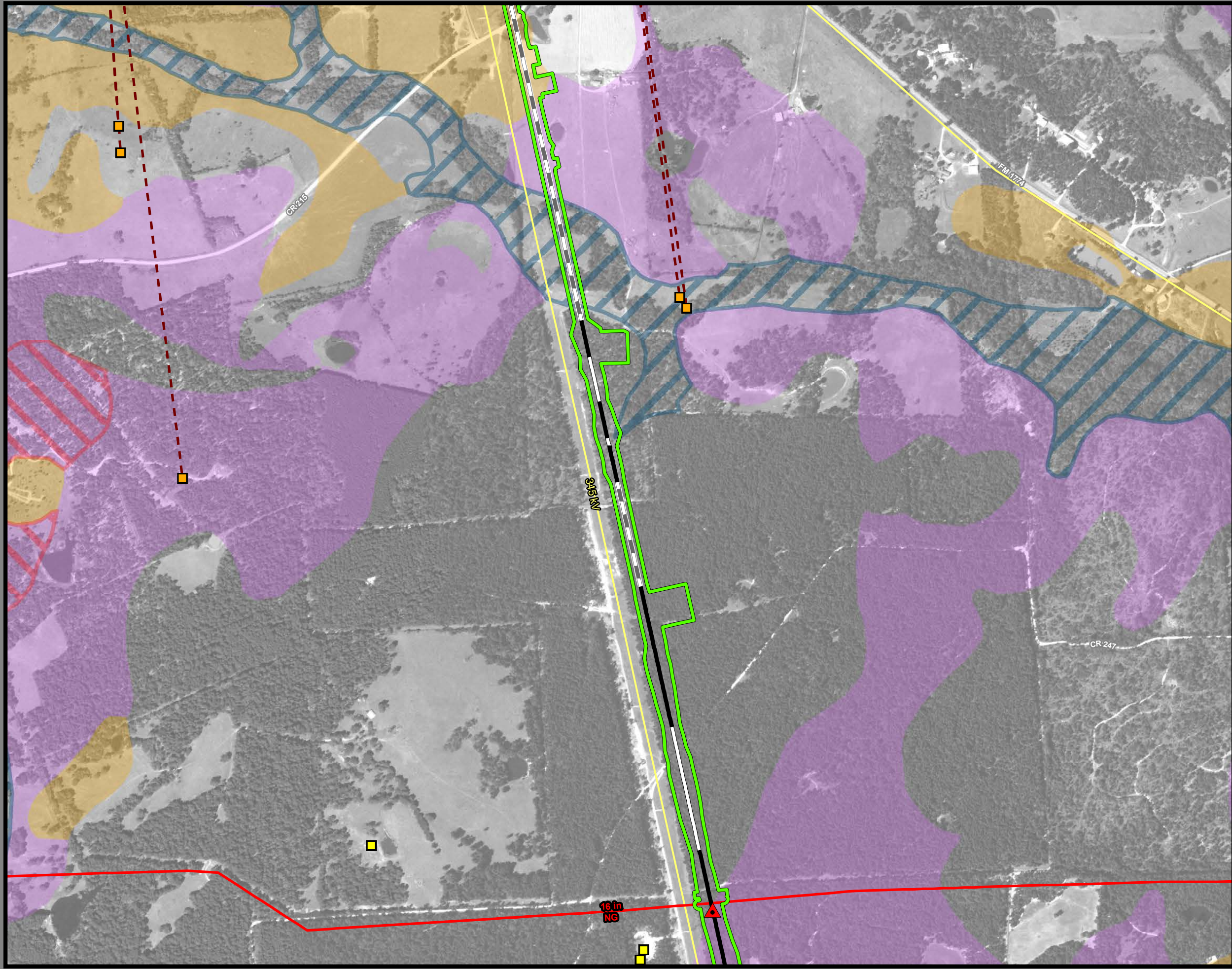
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



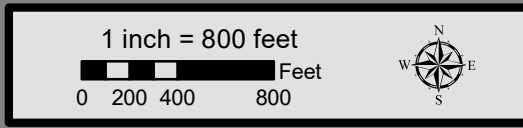


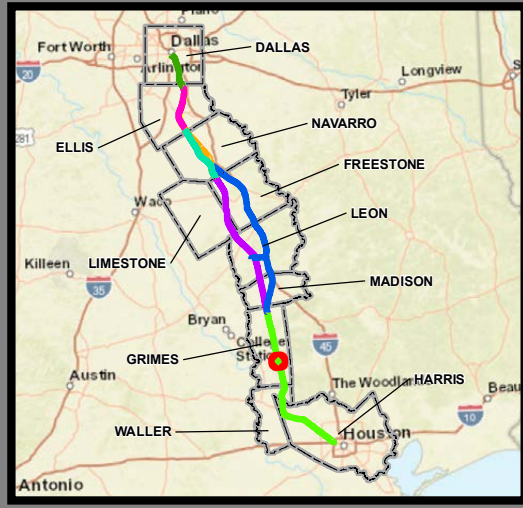
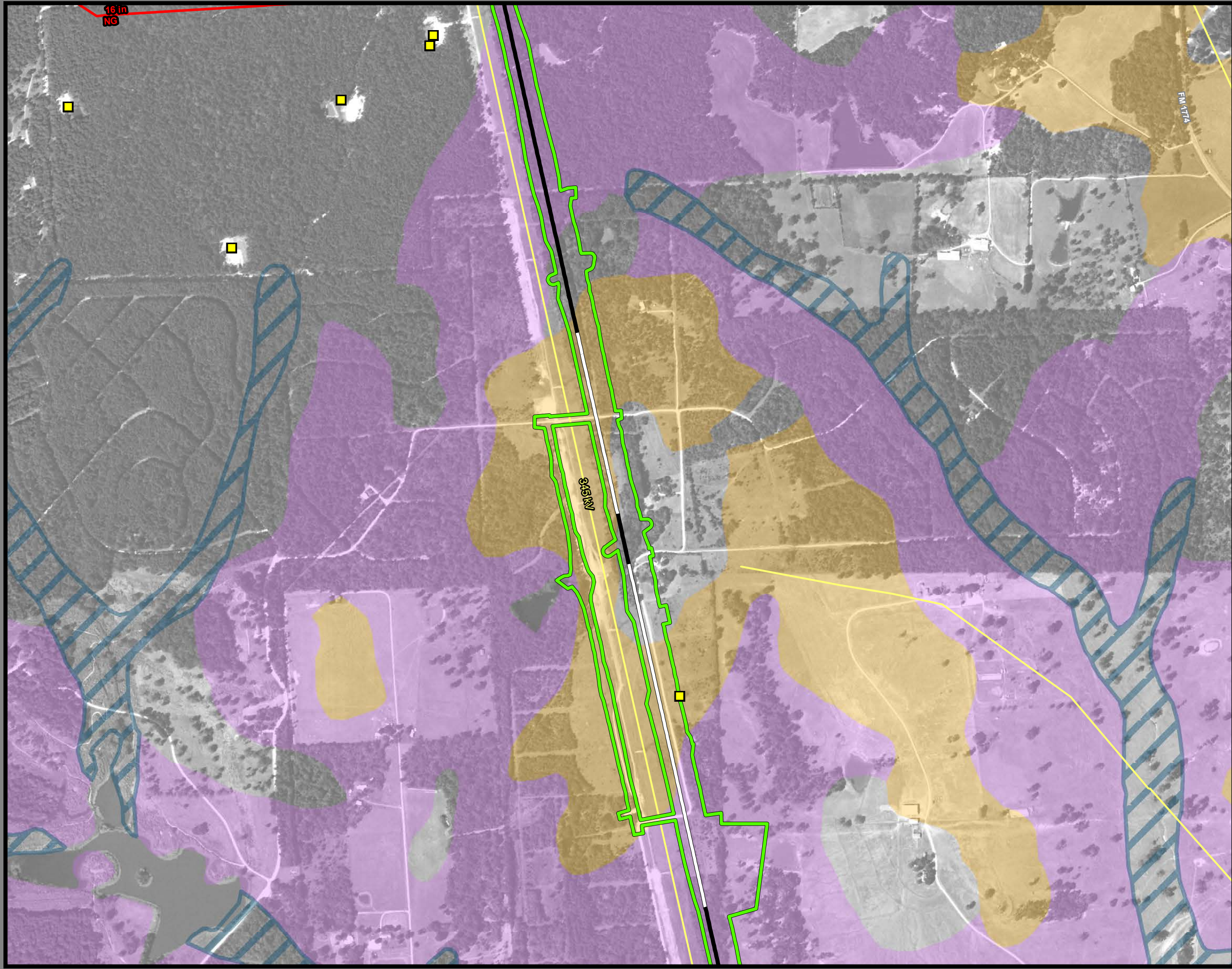
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2016



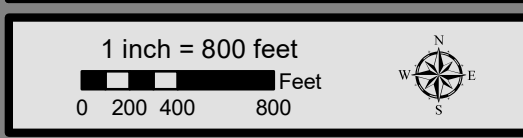


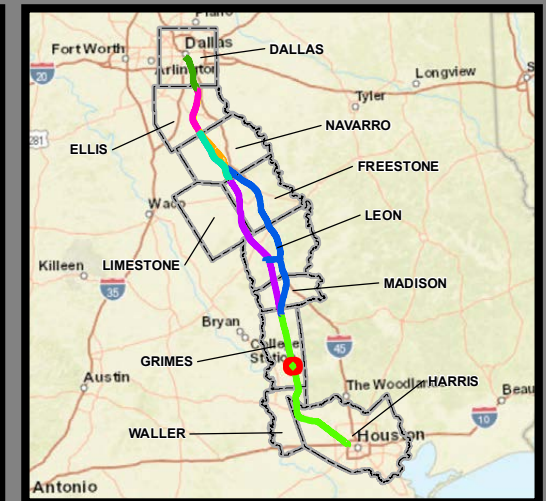
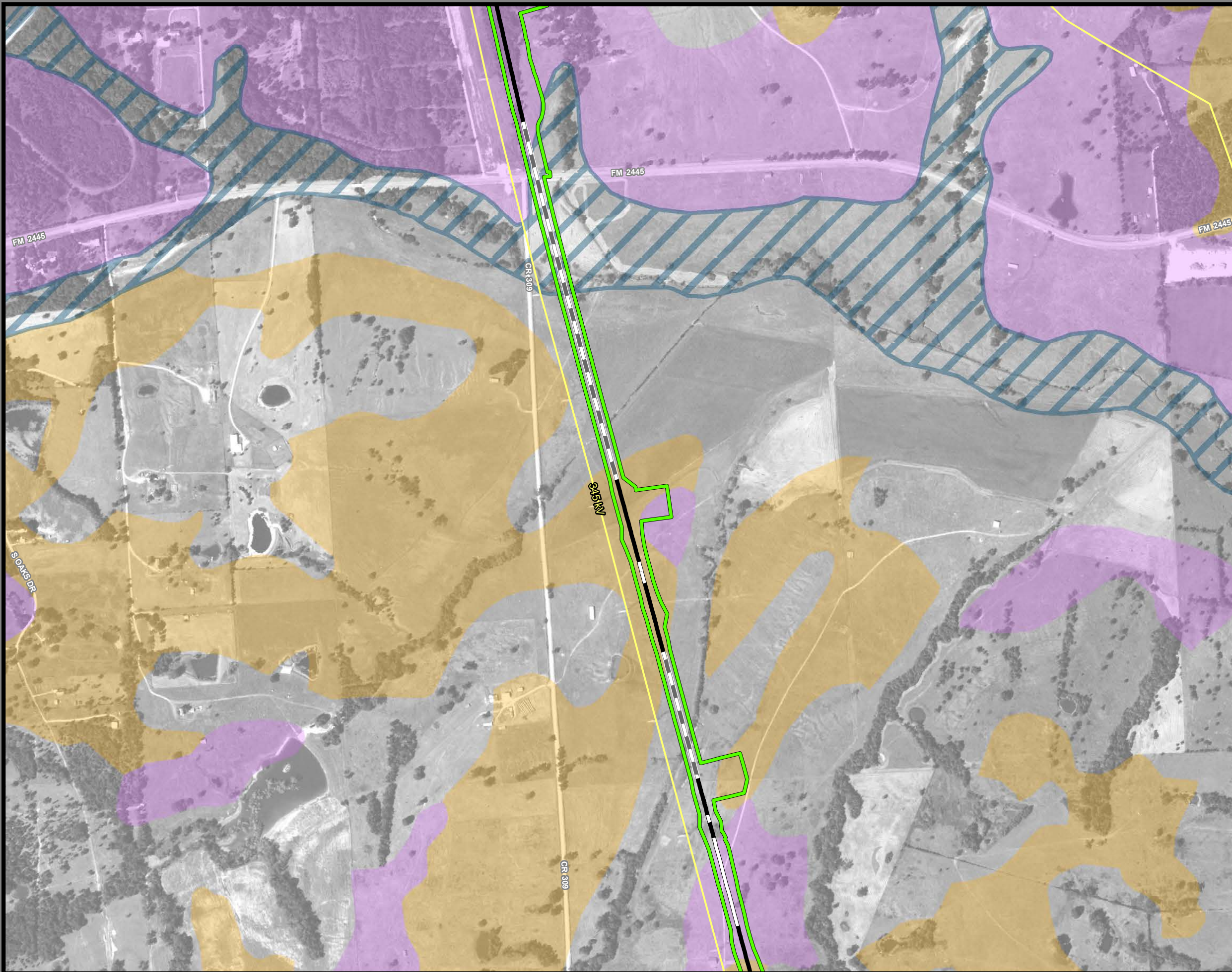
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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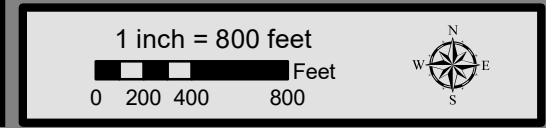


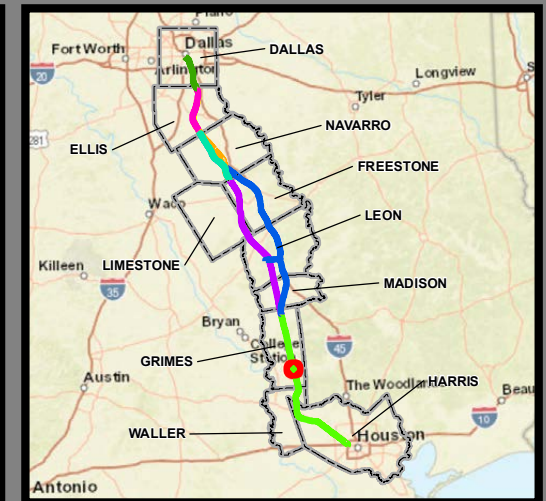
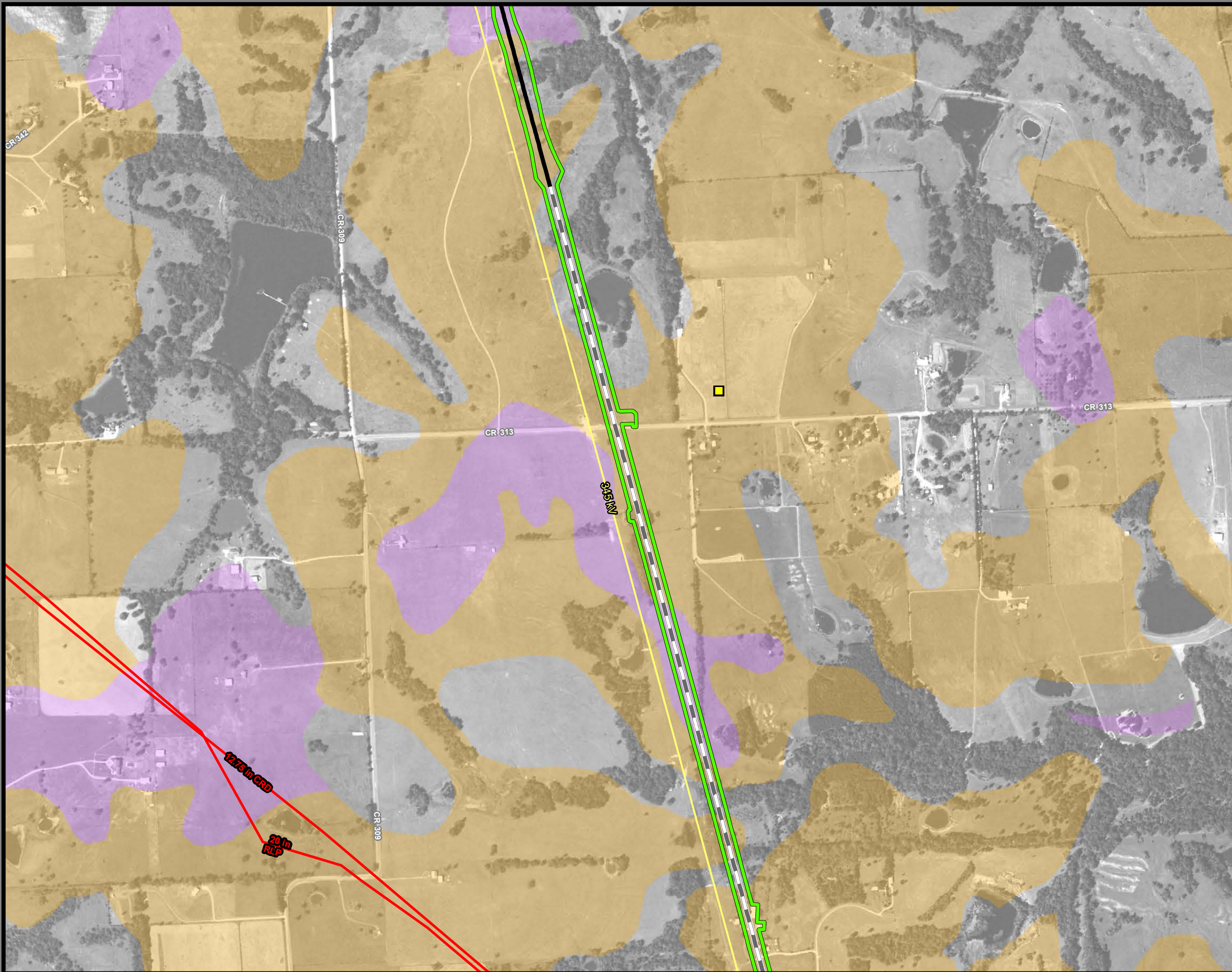
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 220 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
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Aerial Imagery: USDA NAIP 2016



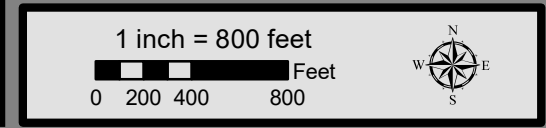


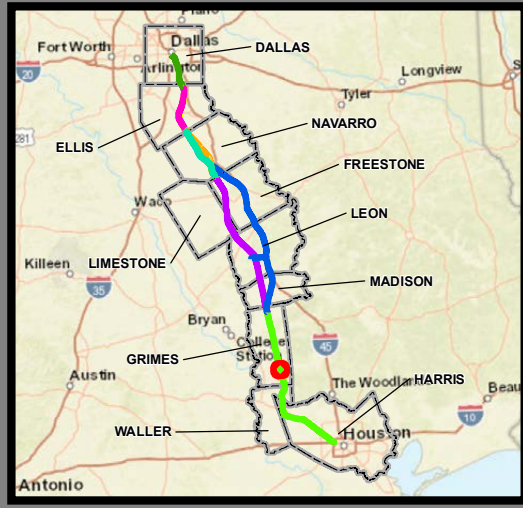
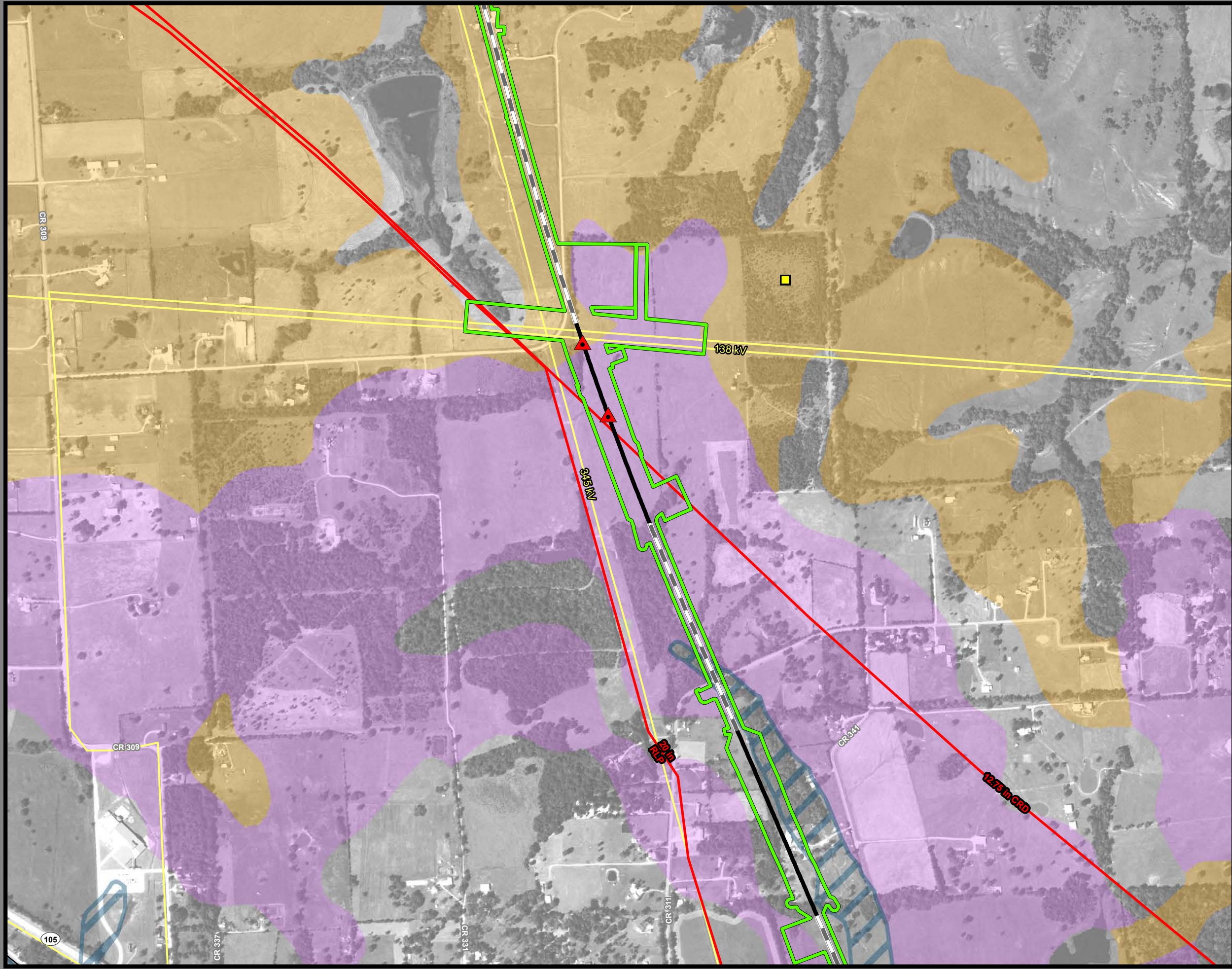
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 221 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
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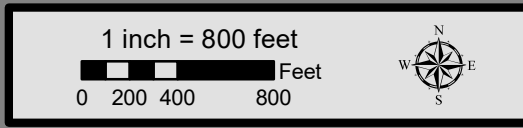


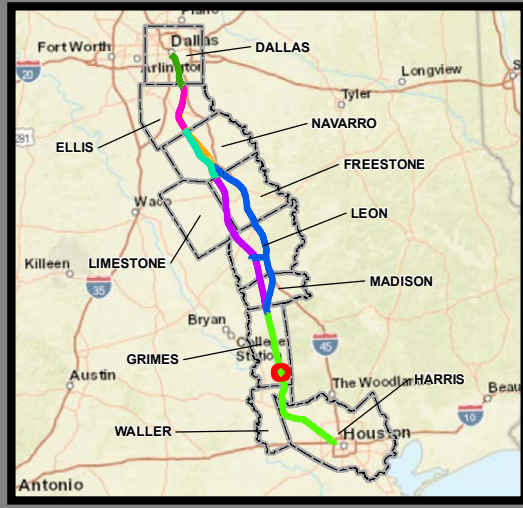
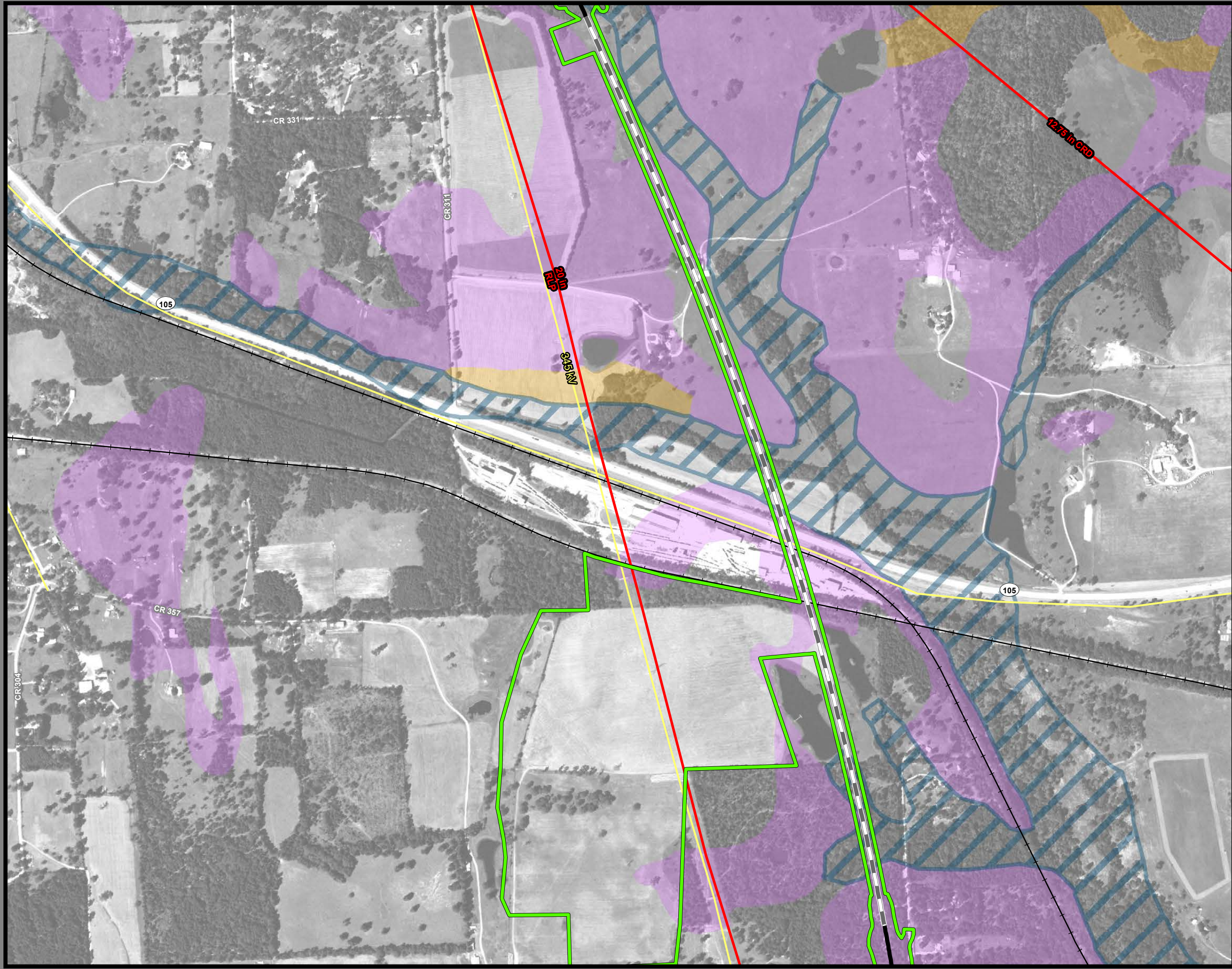
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 222 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1 (Green outline)	Mine (Blue circle)
Segment 2A (Pink outline)	Utility Crossing (Red triangle)
Segment 2B (Yellow outline)	Electric Transmission Line (Yellow line)
Segment 3A (Cyan outline)	Oil/Gas Wells
Segment 3B (Orange outline)	Vertical (Yellow square)
Segment 3C (Blue outline)	Directional: Surface (Red square)
Segment 4 (Purple outline)	Directional: Bottom (Orange square)
Segment 5 (Light Green outline)	Directional Well Line (Red dashed line)
Track Configuration	Oil/Gas Pipelines
Viaduct (Grey dashed line)	Active (Red line)
Embankment (Black solid line)	Abandoned (Pink line)
Cut (White solid line)	Soils
County Boundary (Black dashed line)	Highly Erosive (Pink hatched)
Railroad (Black line with cross-ticks)	Hydric (Blue hatched)
Faults (Orange line)	Prime Farmland (Yellow)
	Farmland of Statewide Importance (Light Purple)
	Prime Farmland if Drained (Cyan)

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
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Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



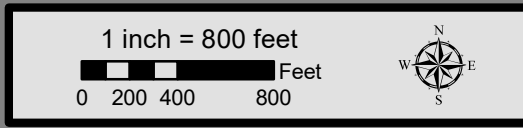


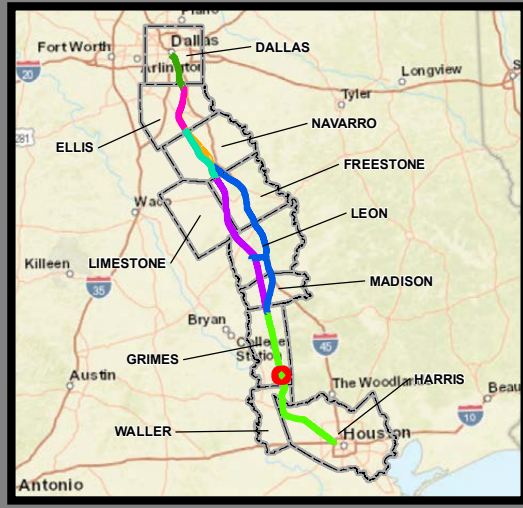
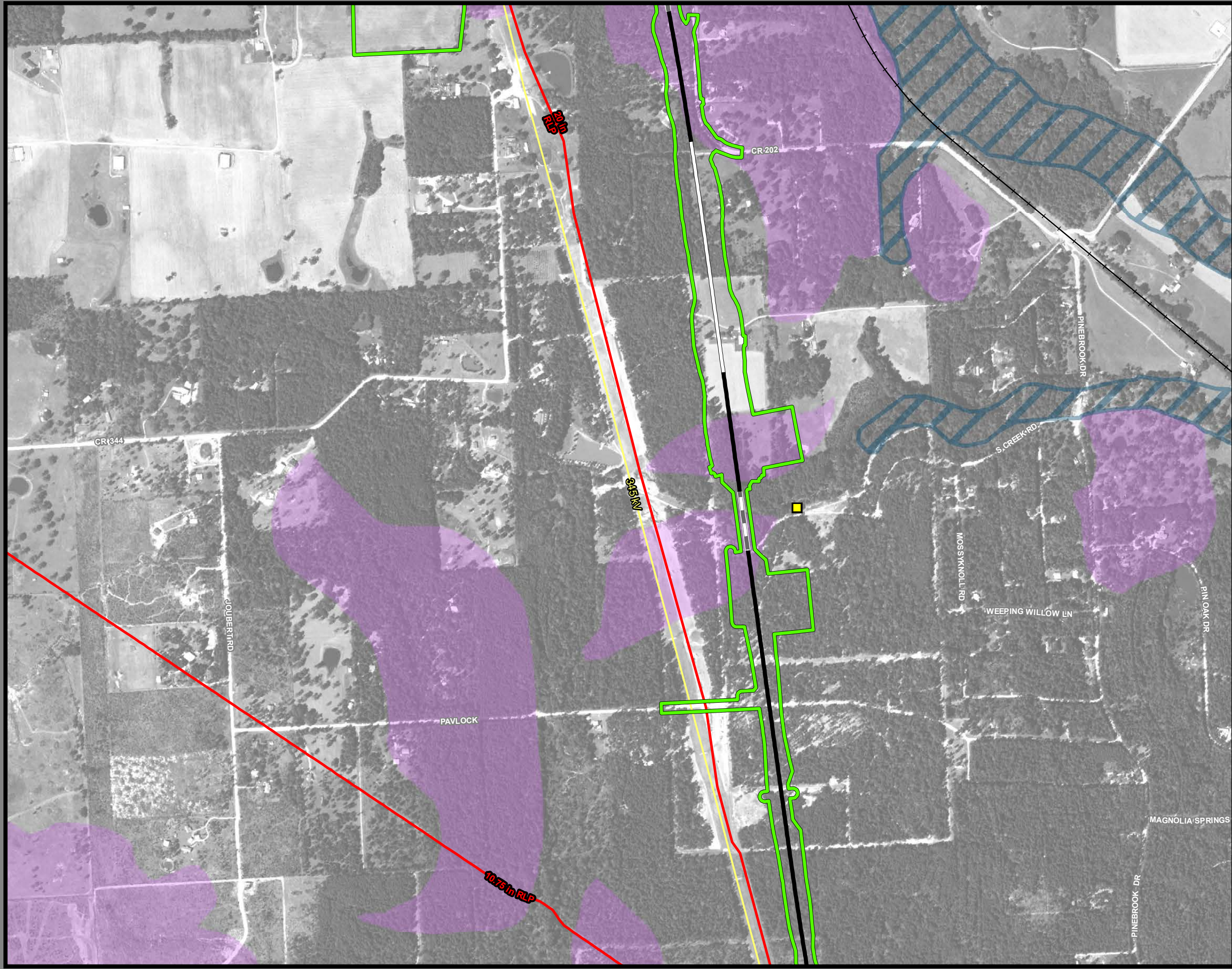
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 223 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
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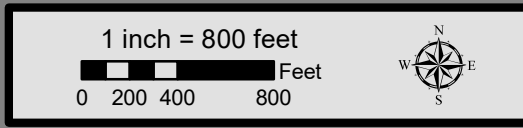


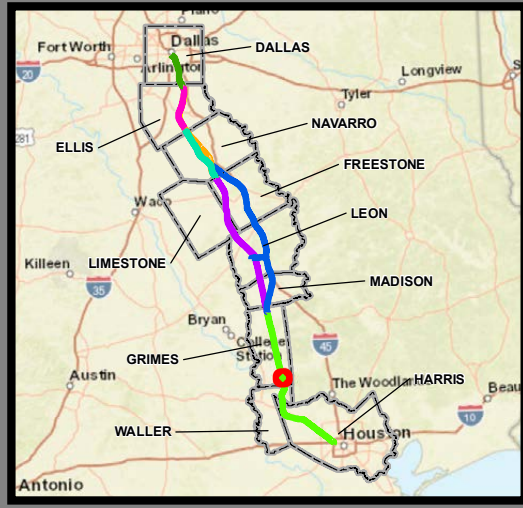
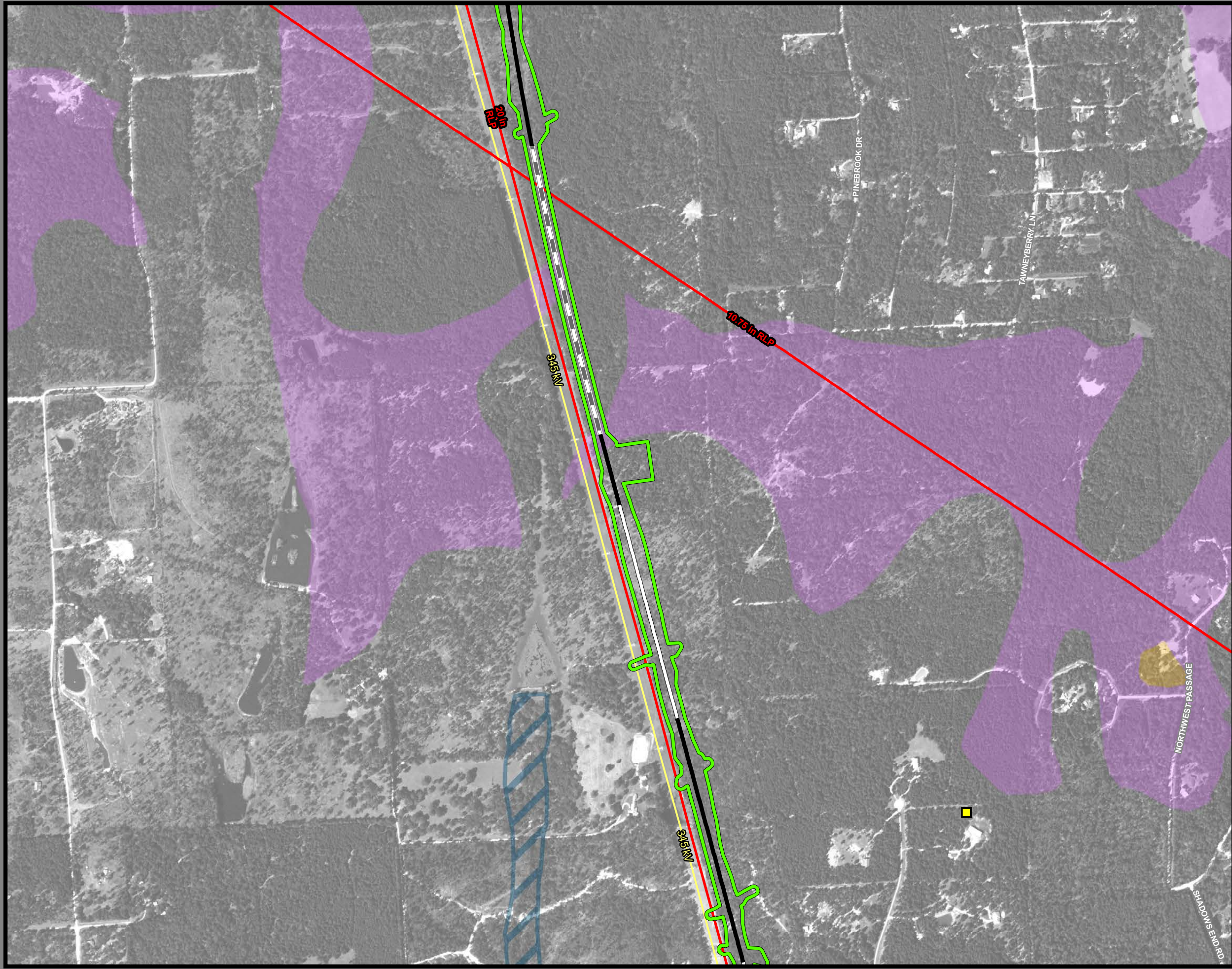
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 224 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data -
 USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric
 Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines -
 TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility
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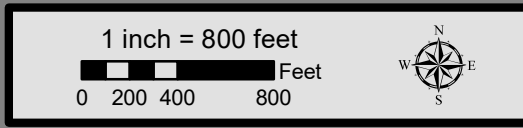


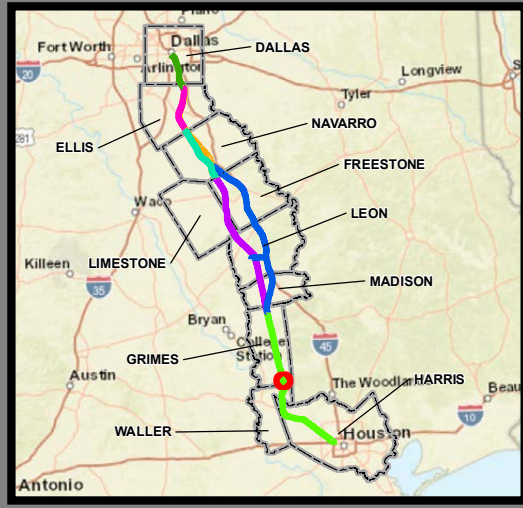
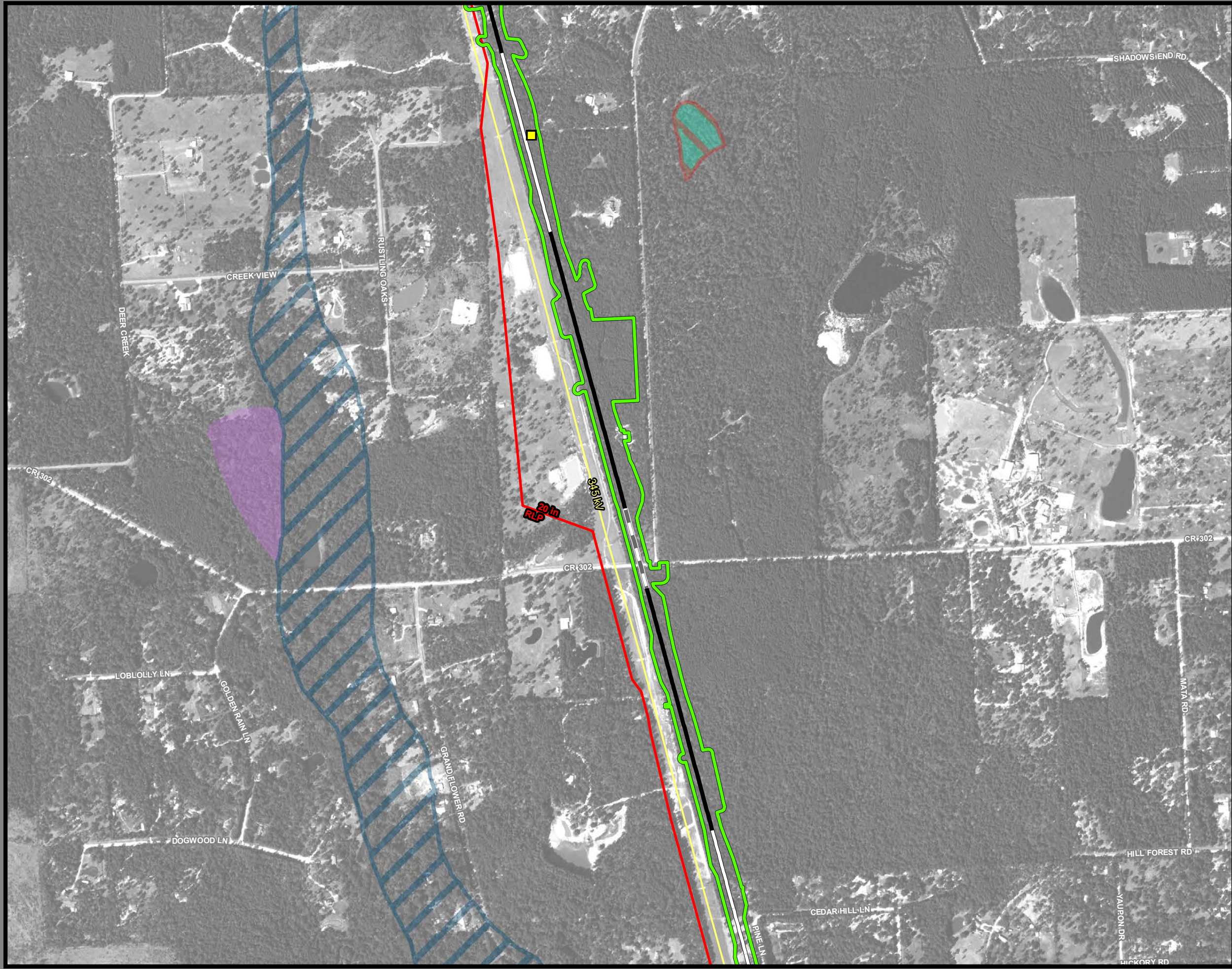
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 225 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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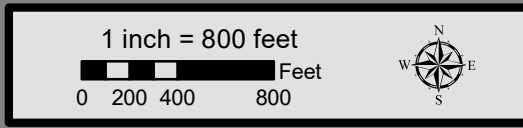


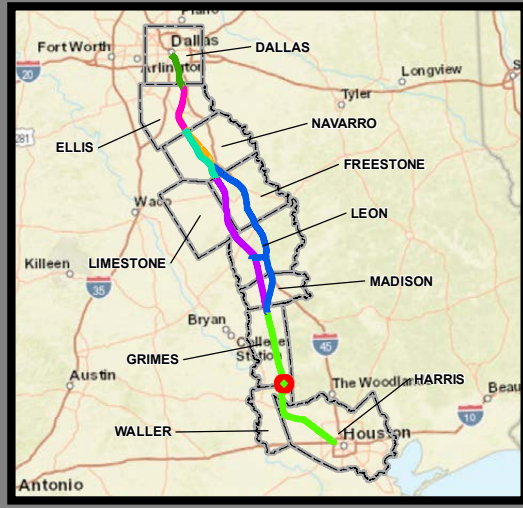
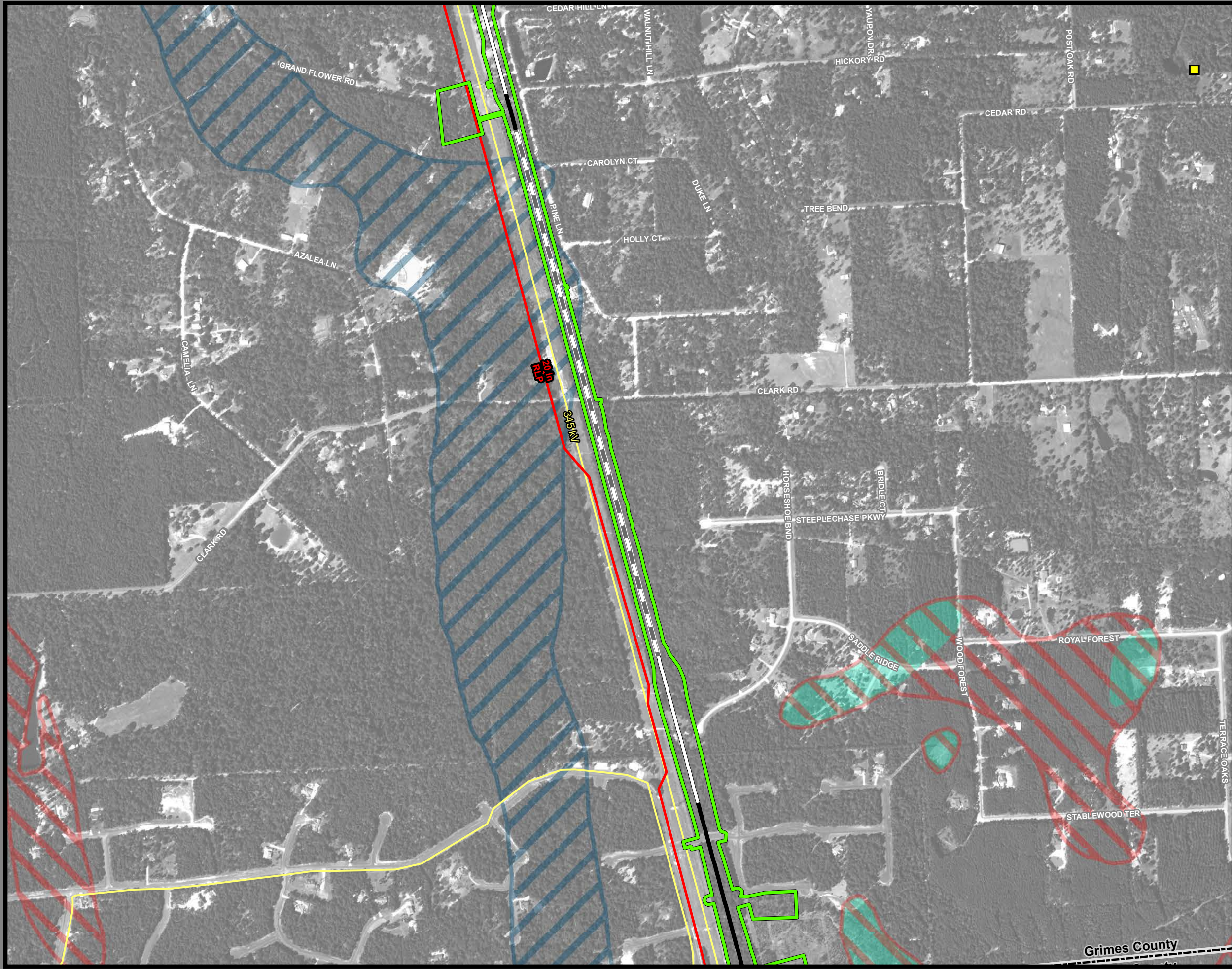
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 226 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
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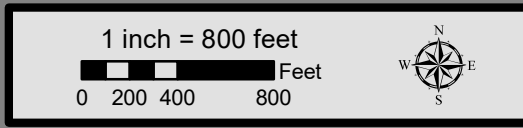


**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
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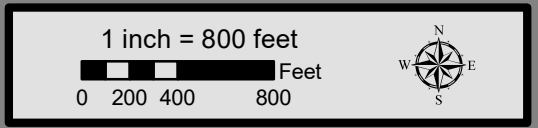


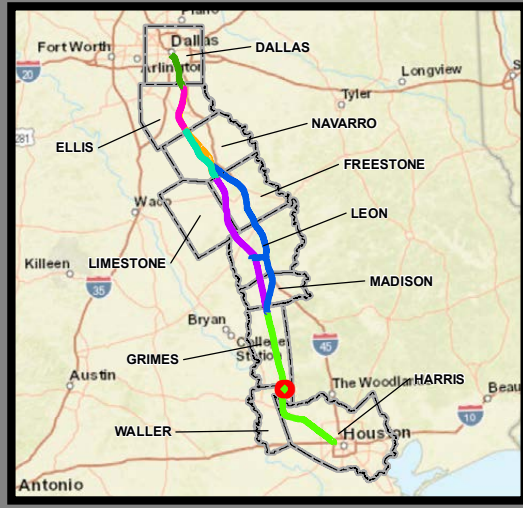
Dallas to Houston
High-Speed Rail Project
 Mineral and Utility Resources
 Segment 5
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional: Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
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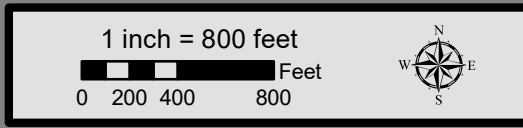


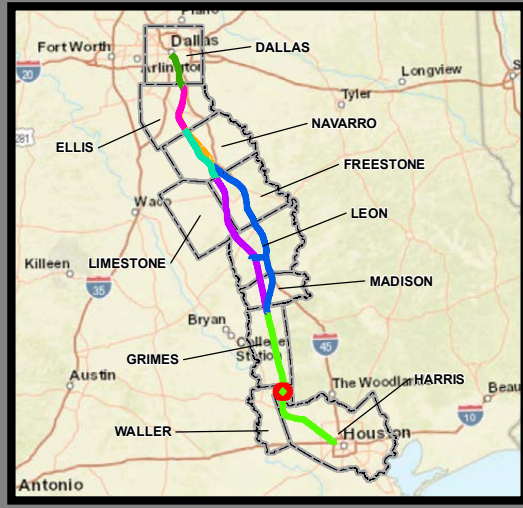
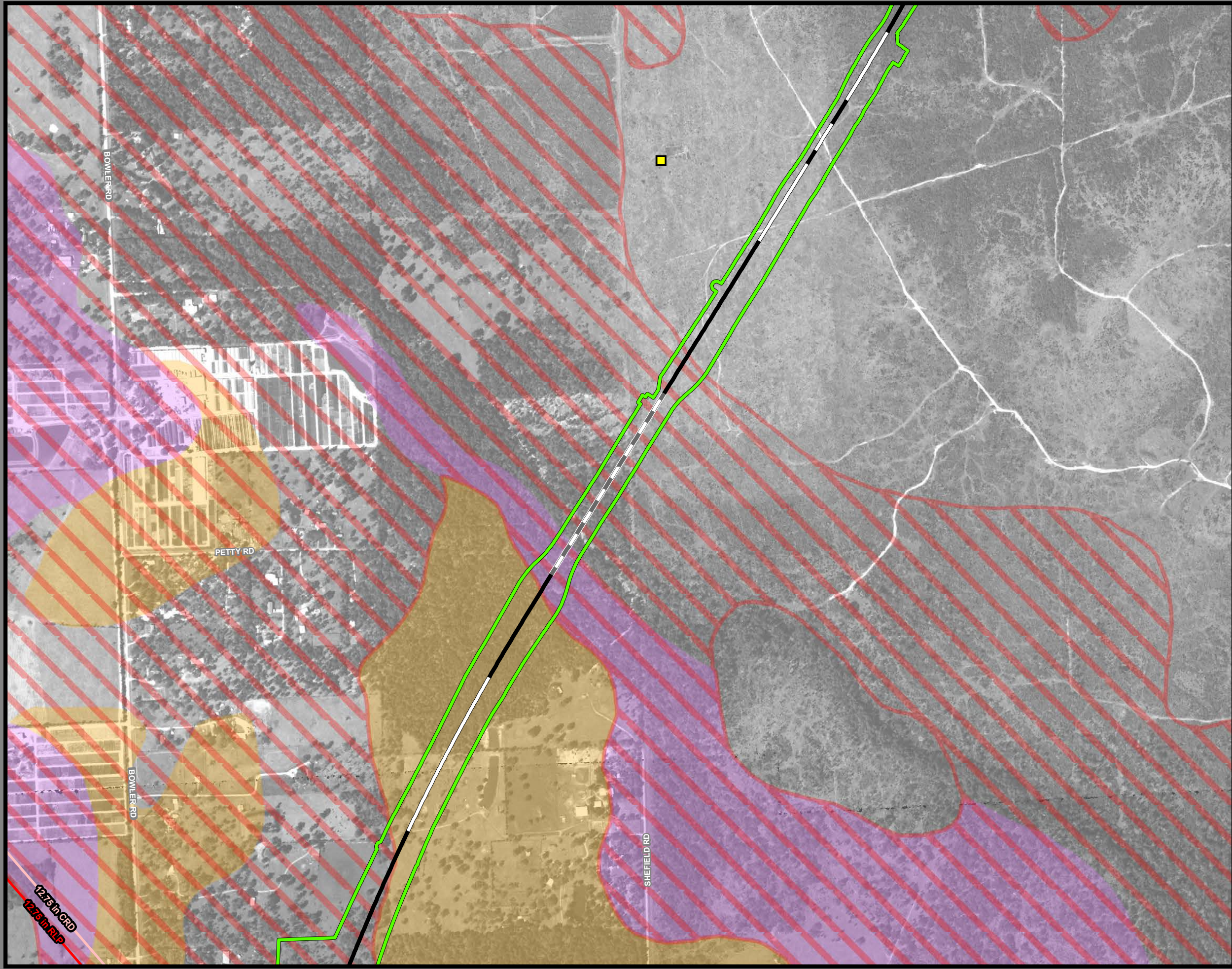
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 229 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
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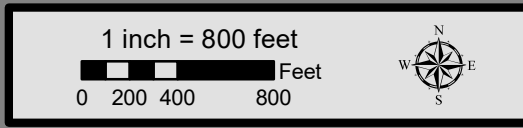


**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
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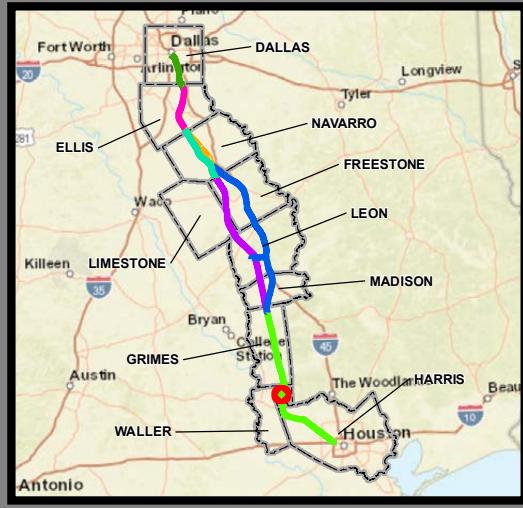
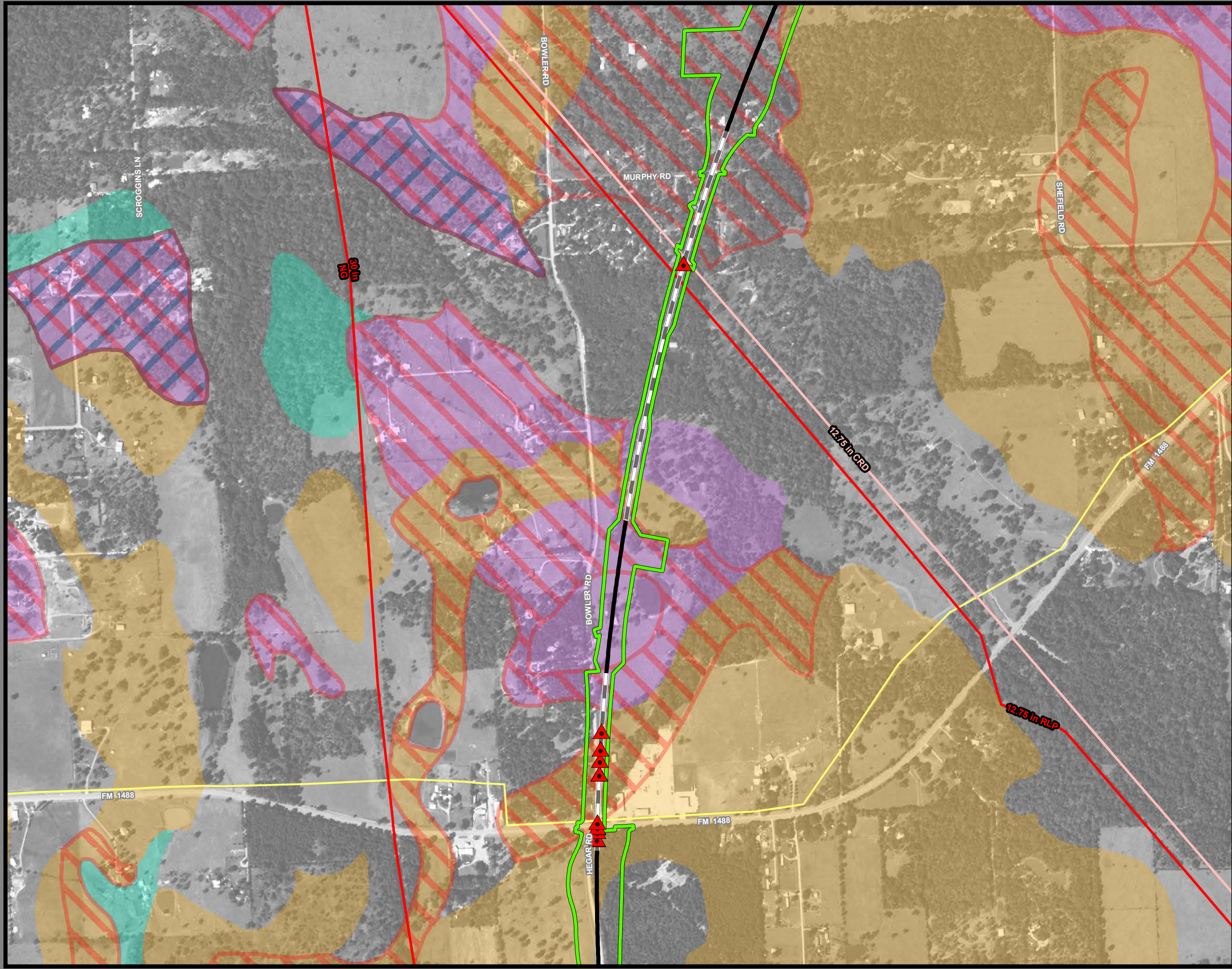
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
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	Prime Farmland if Drained

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12.75 in CRD
12.75 in RLP

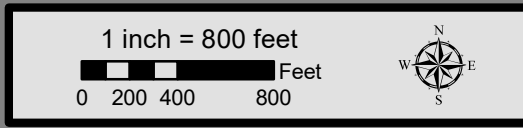


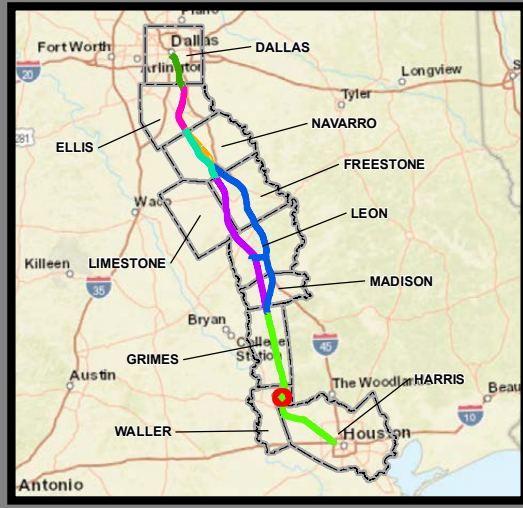
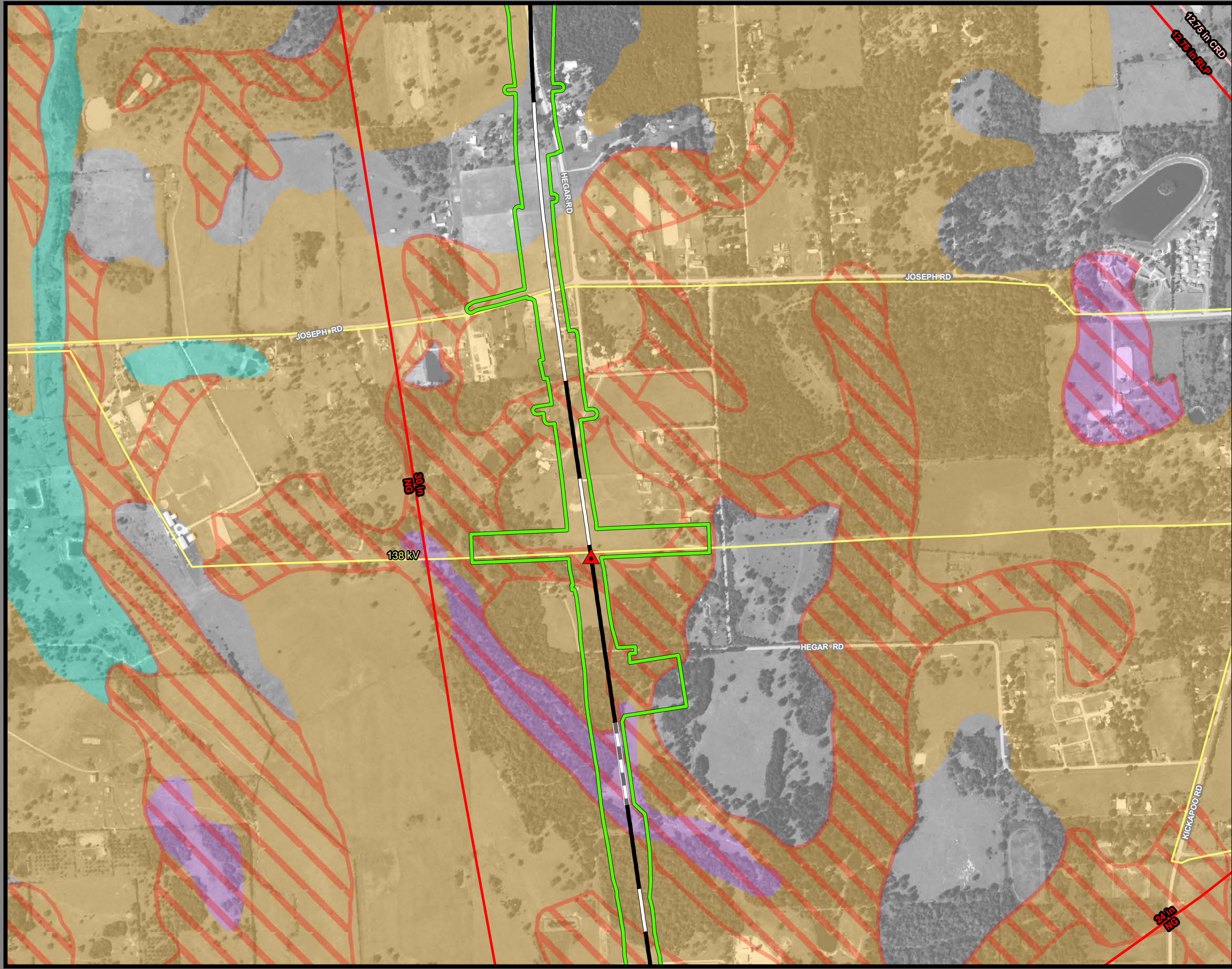
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 231 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



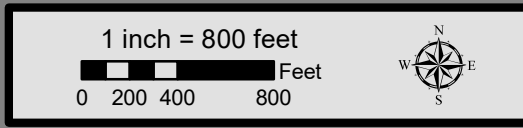


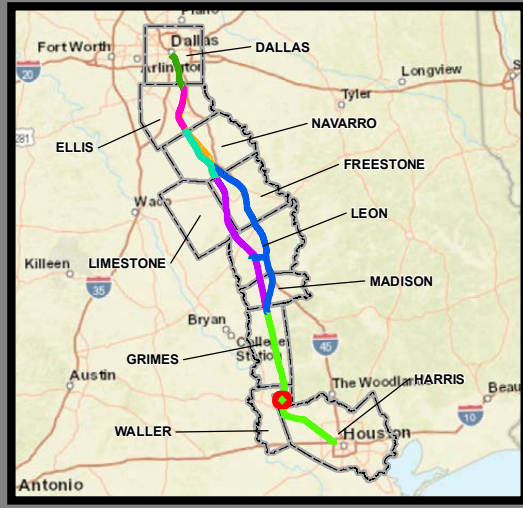
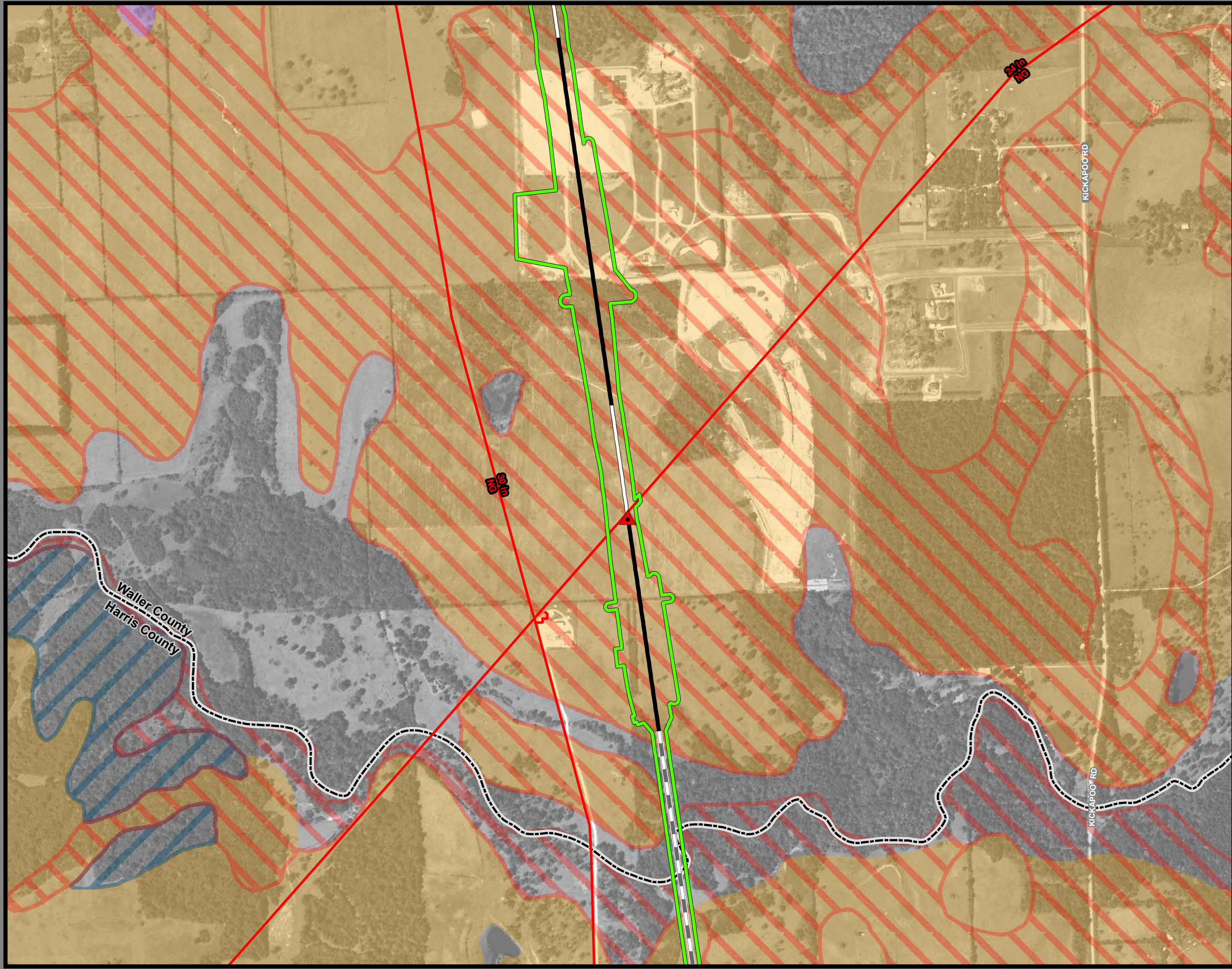
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 232 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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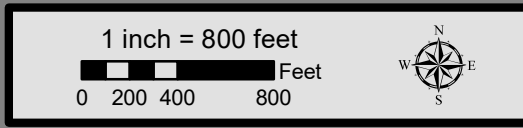


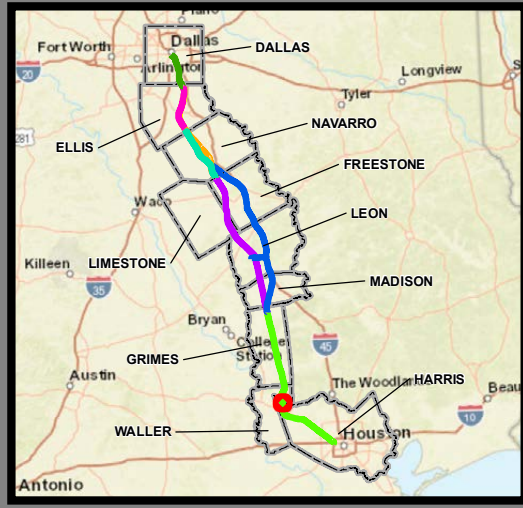
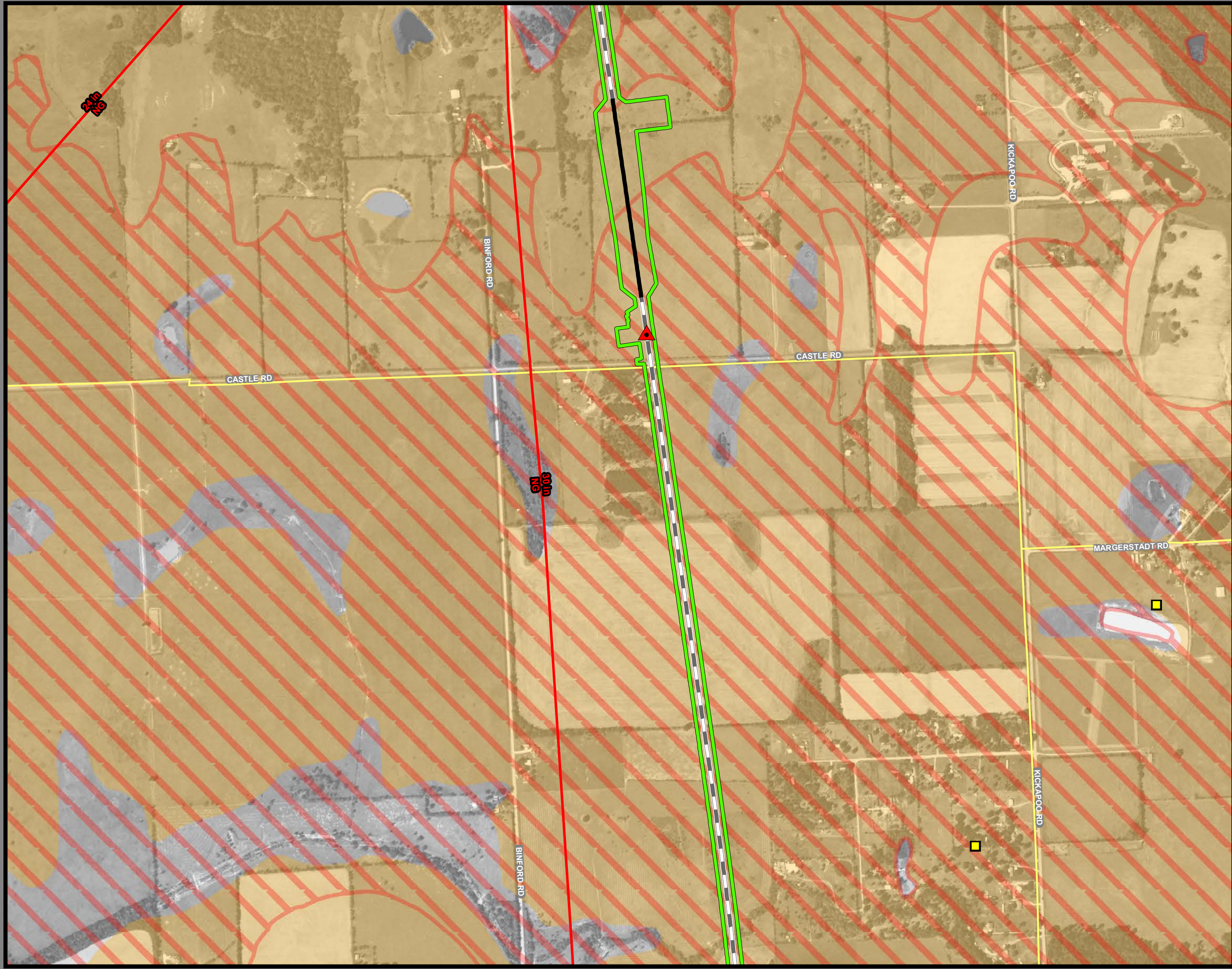
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 233 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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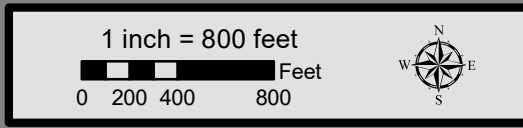


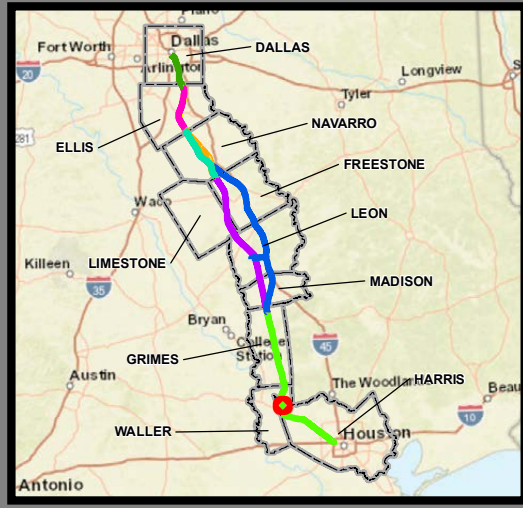
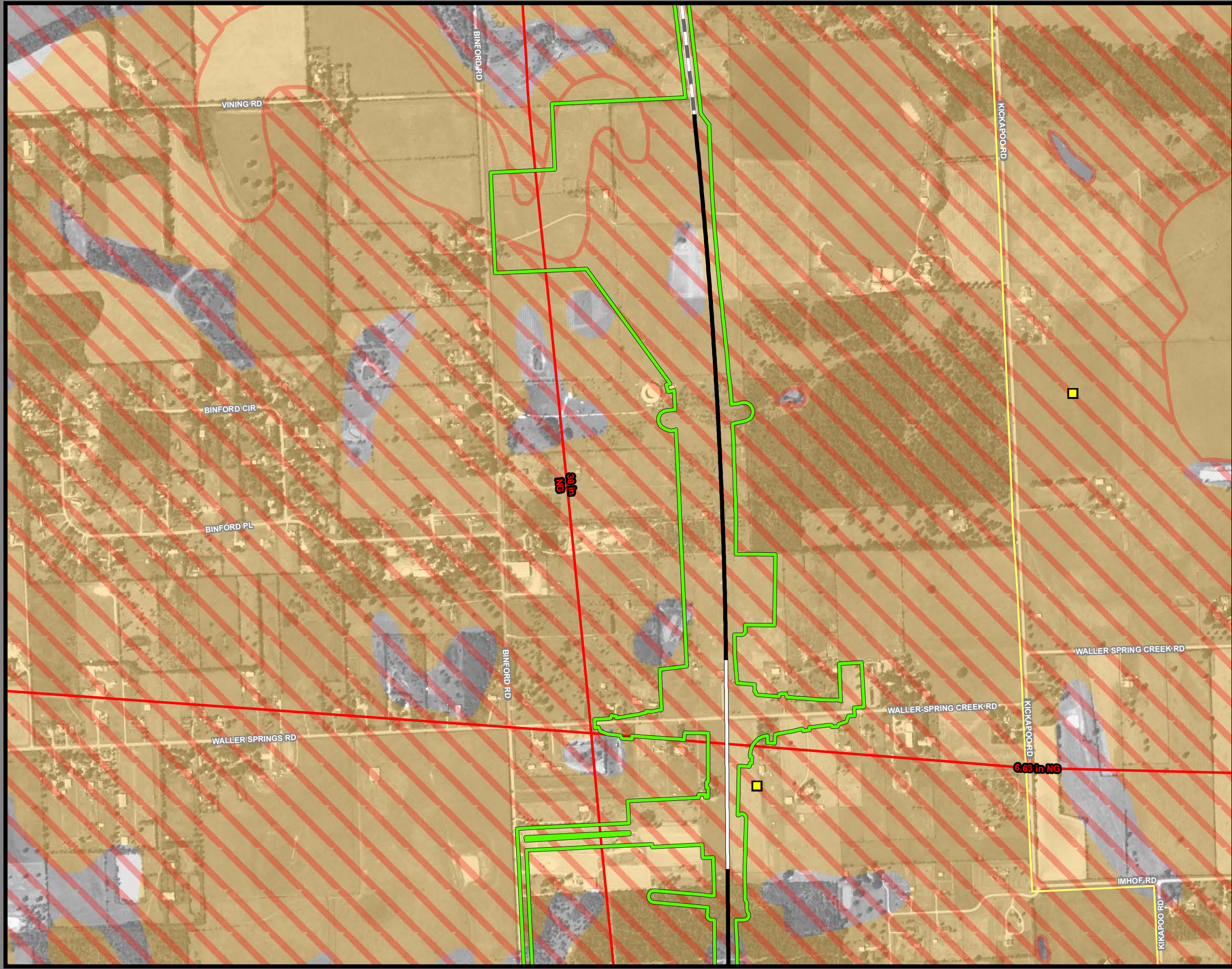
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 234 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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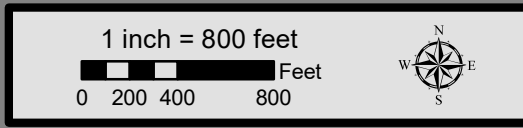


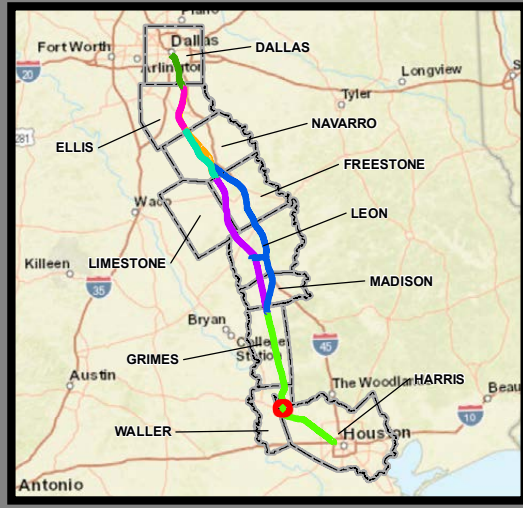
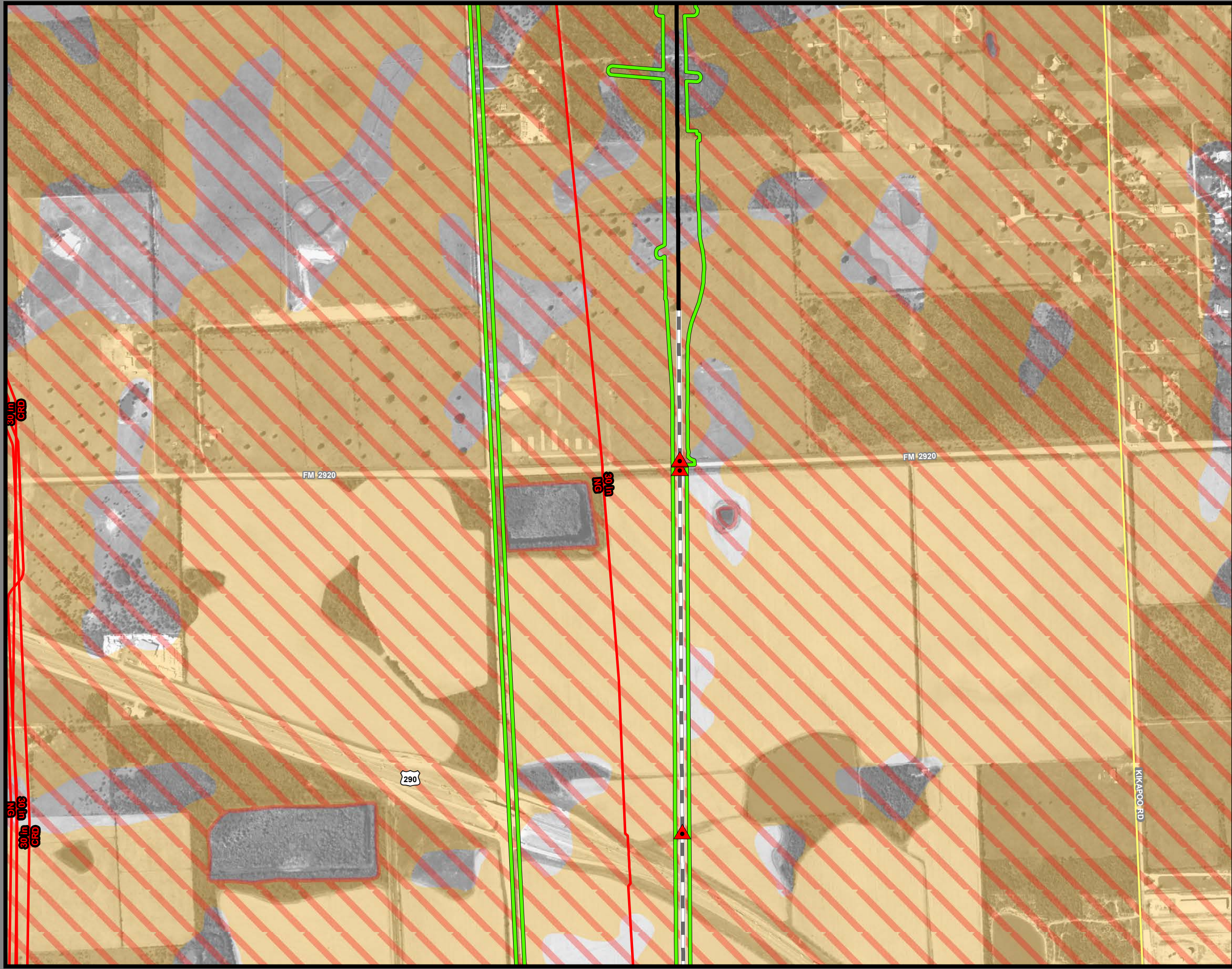
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 235 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
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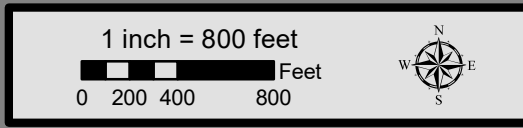


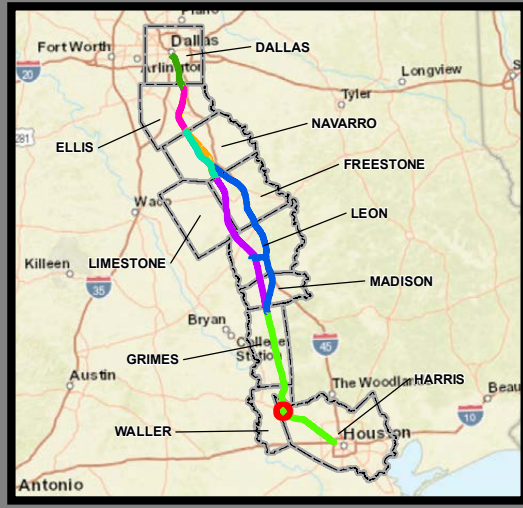
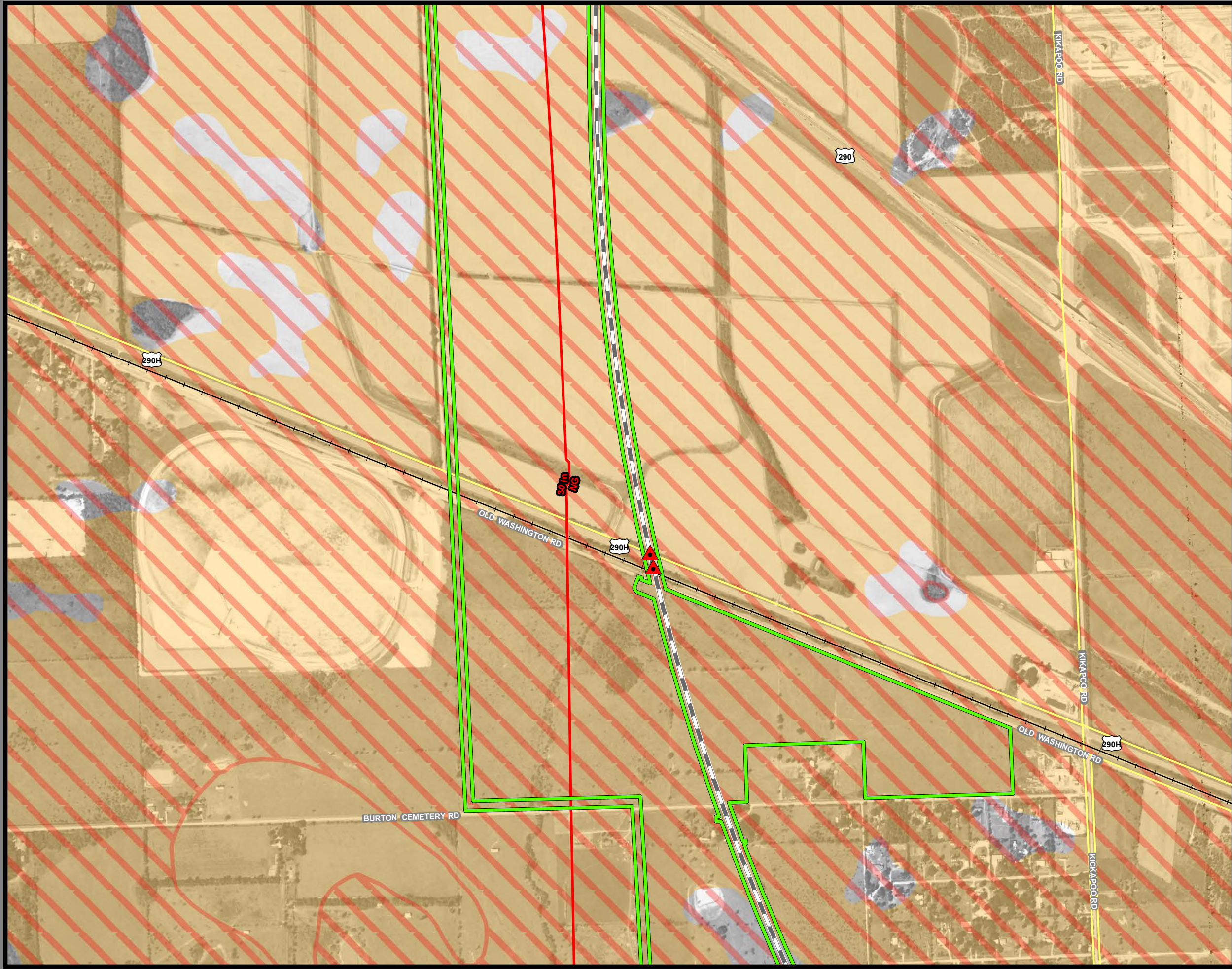
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 236 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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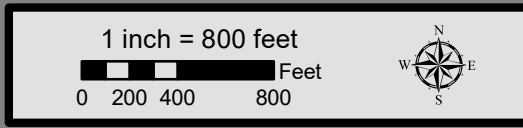


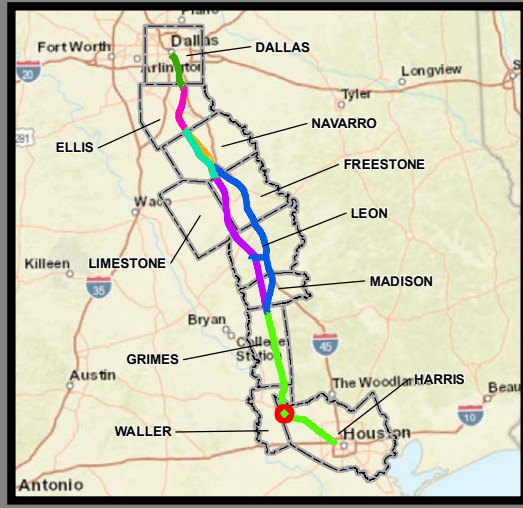
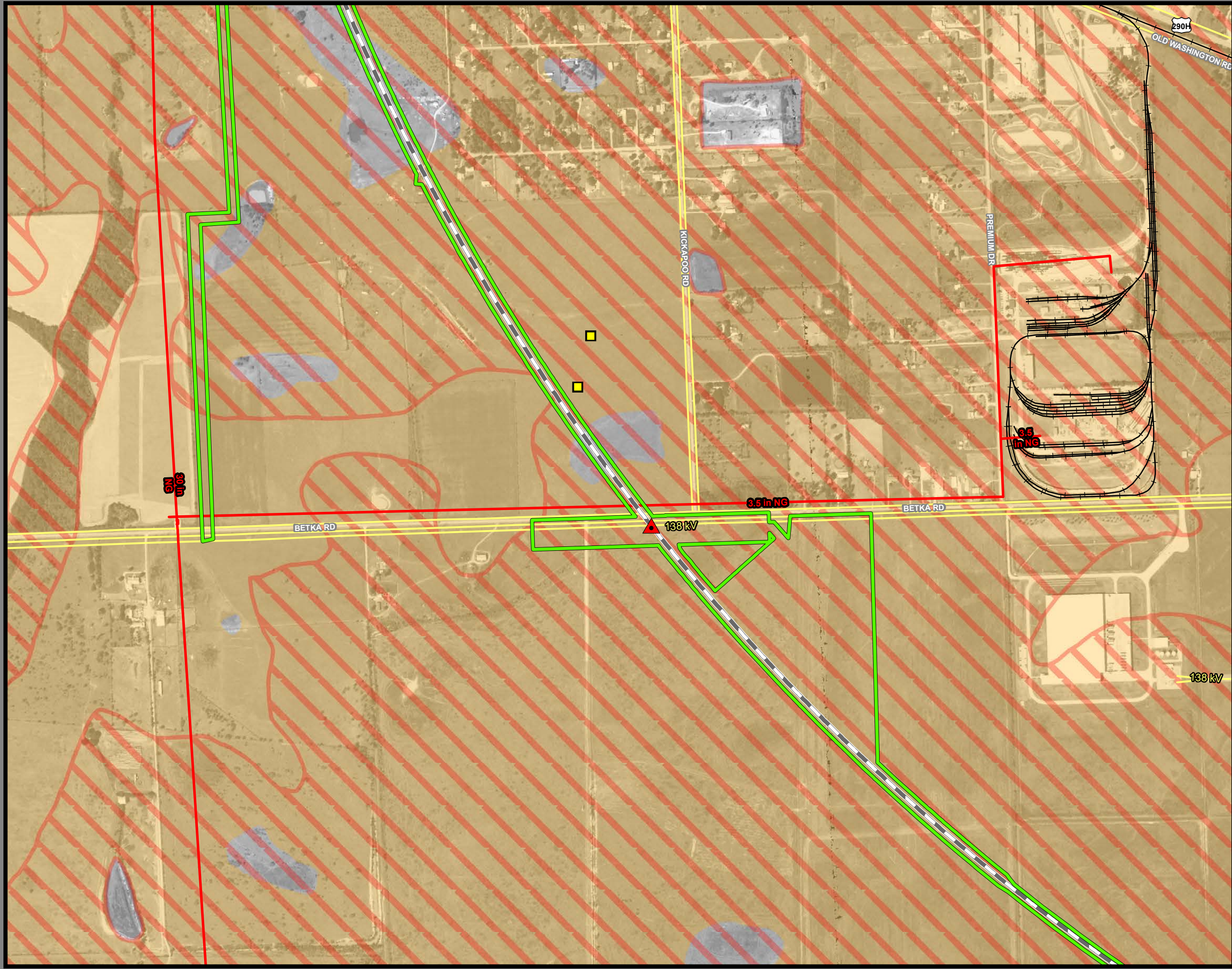
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 237 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
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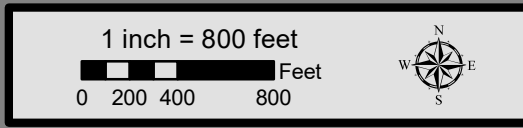


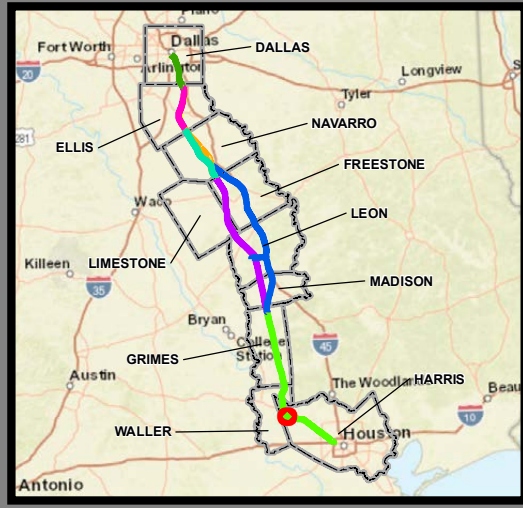
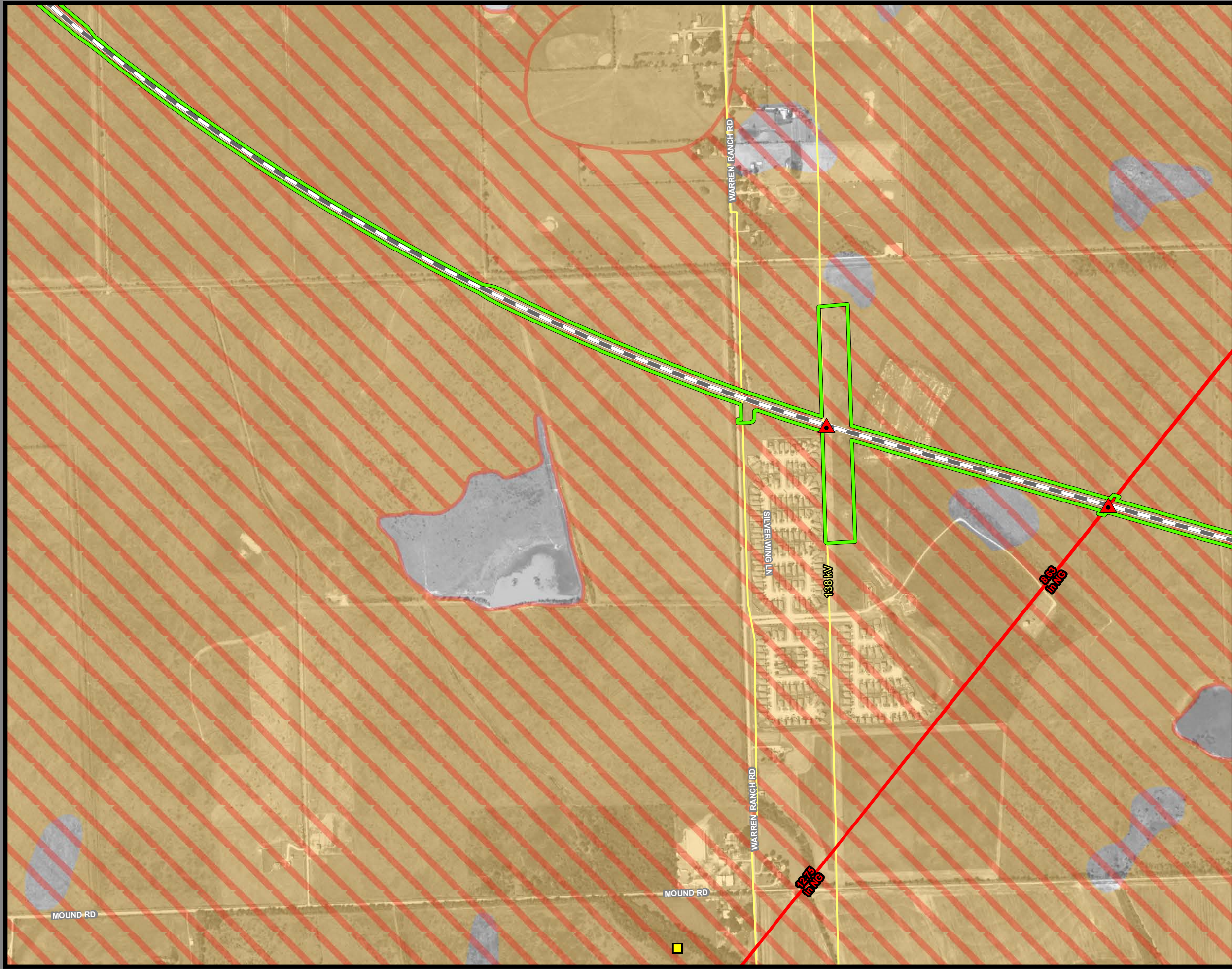
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 238 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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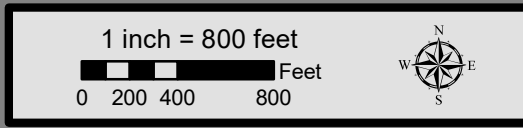


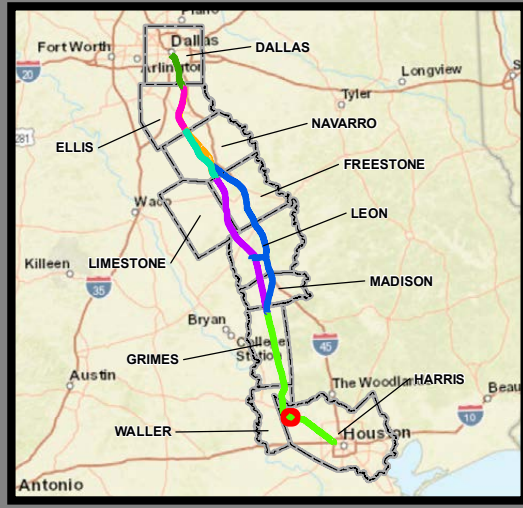
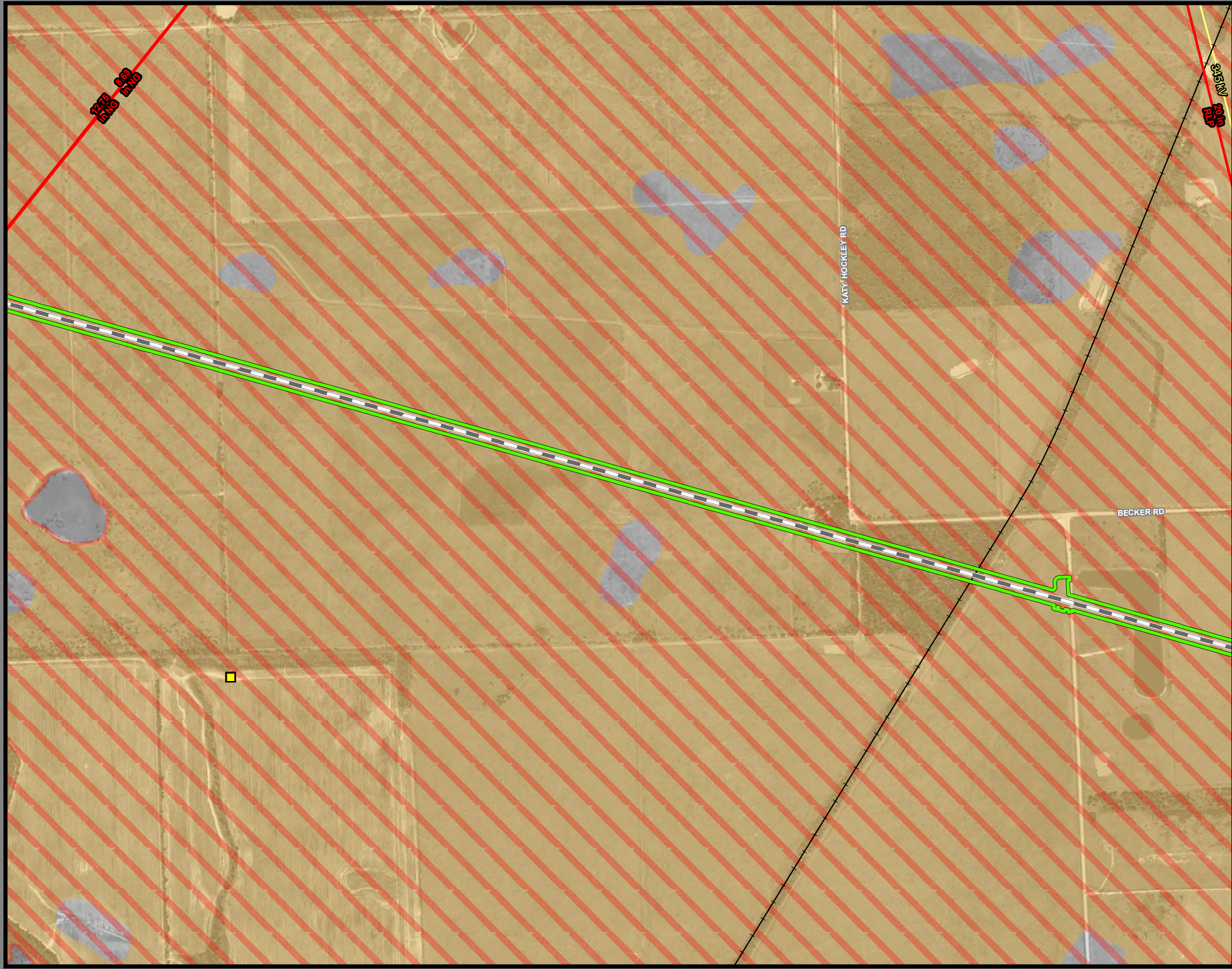
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 239 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
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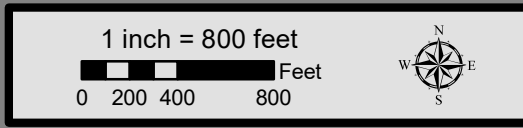


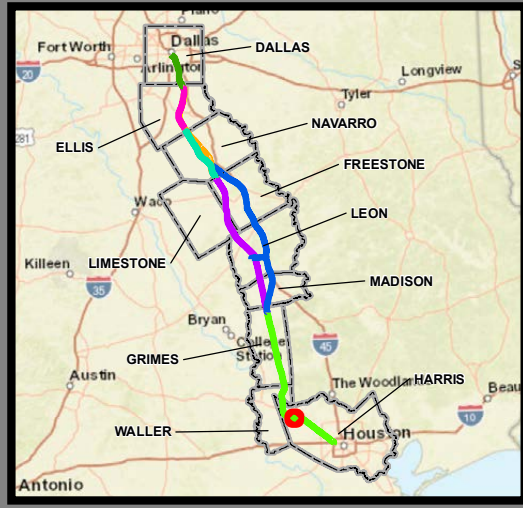
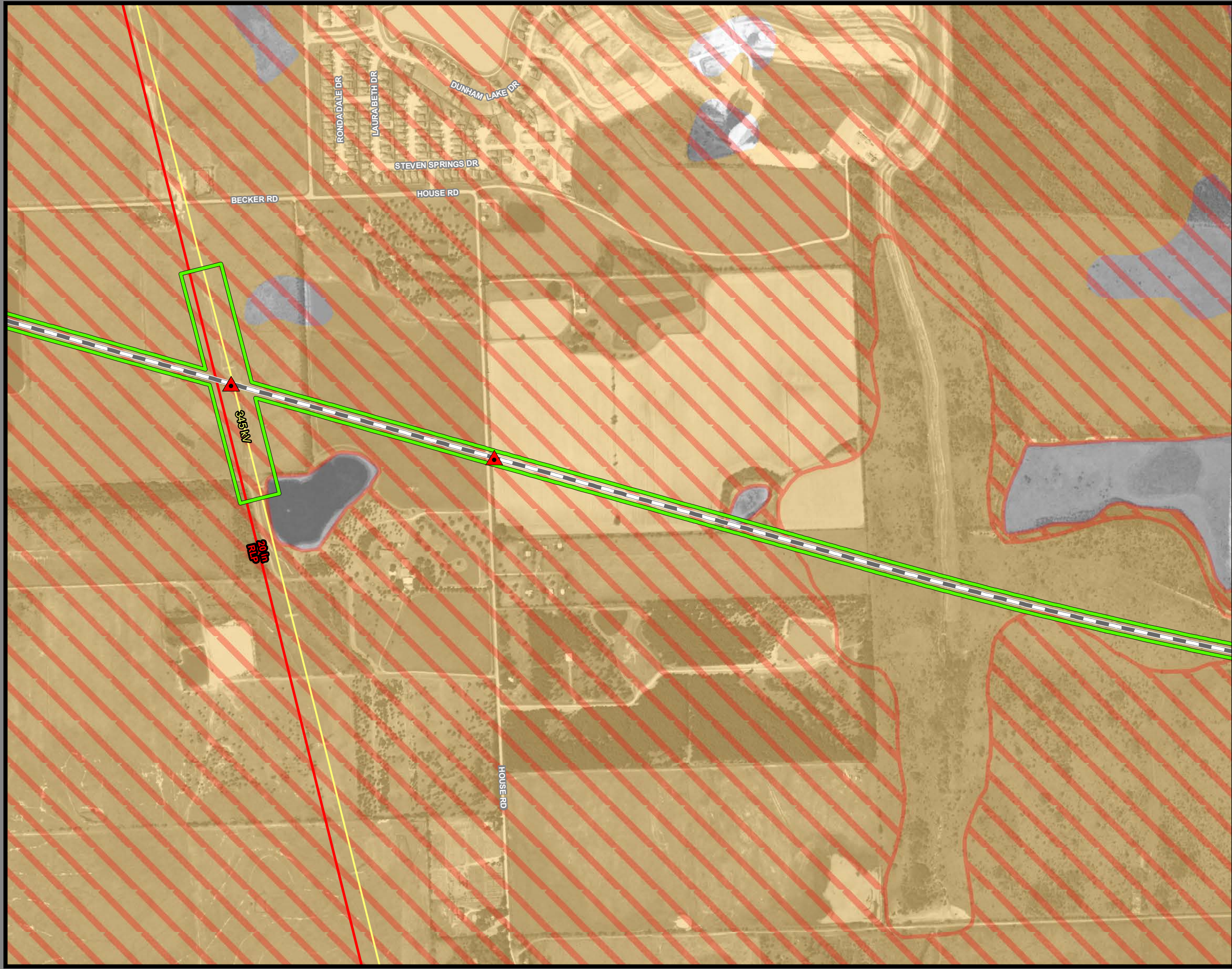
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 240 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
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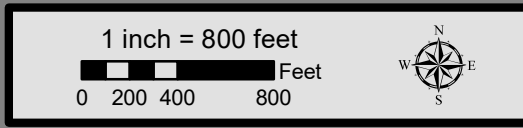


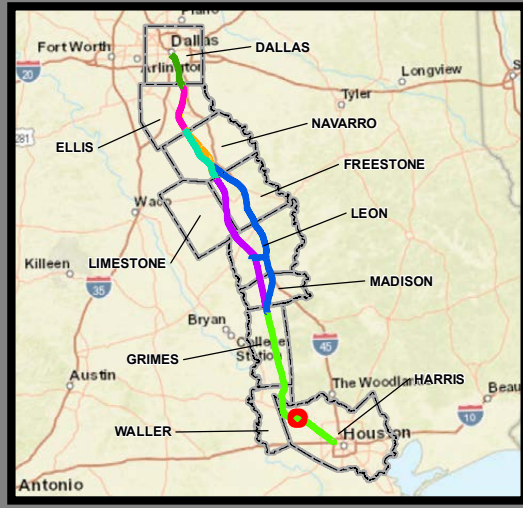
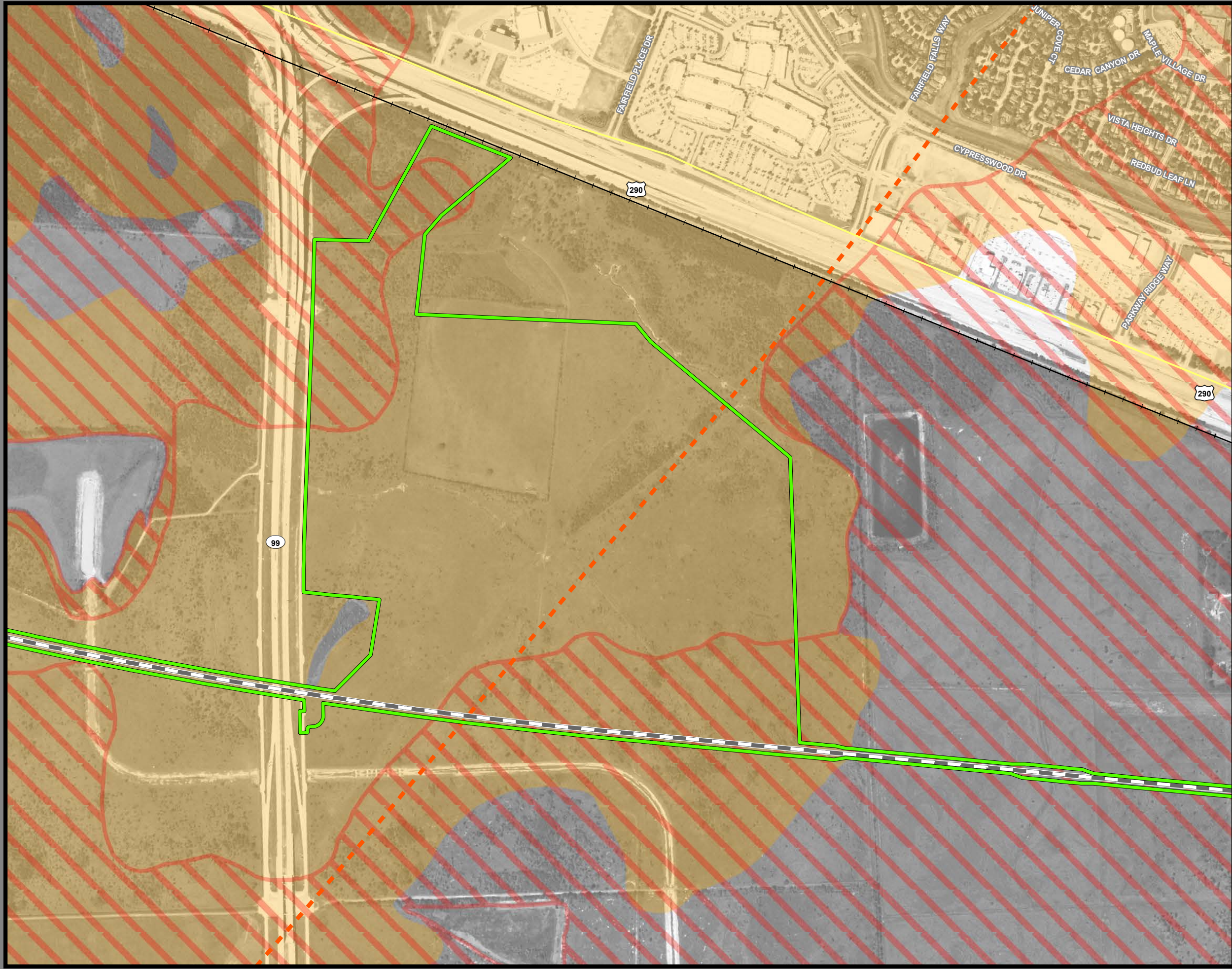
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 241 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
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County Boundary	Highly Erosive
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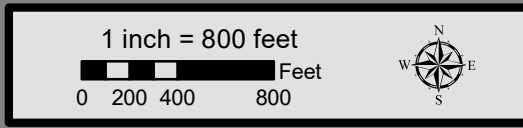


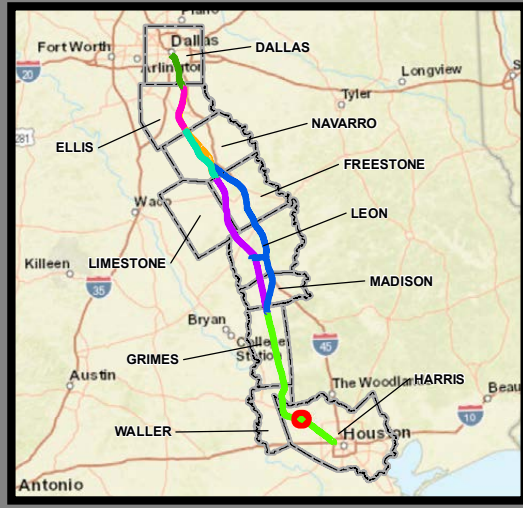
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 242 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
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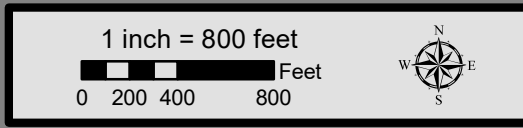


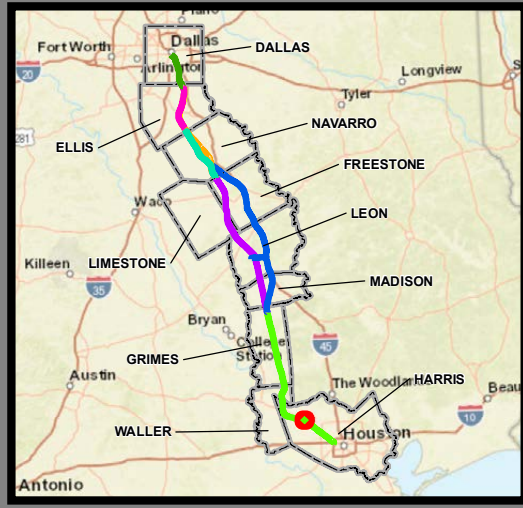
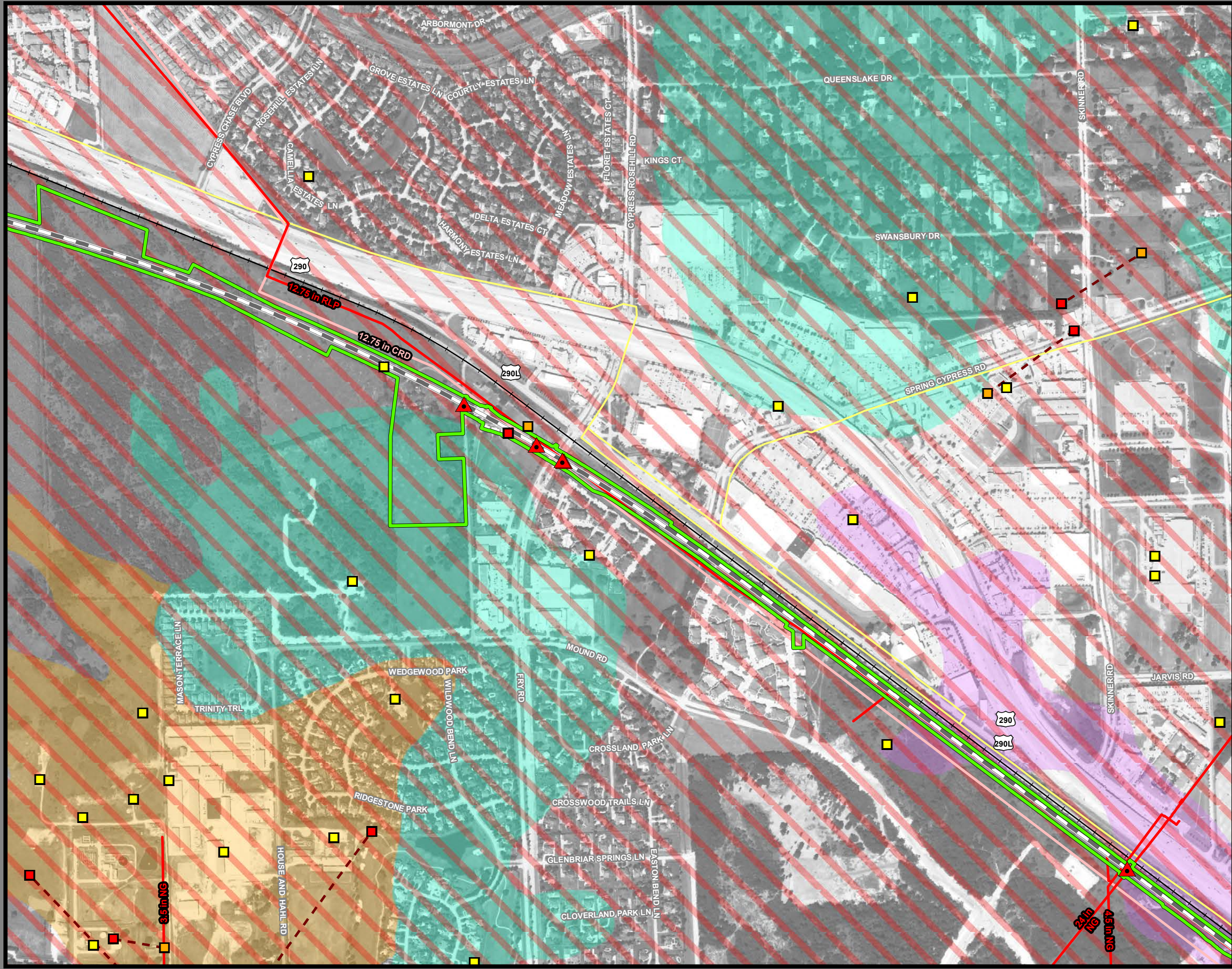
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 243 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



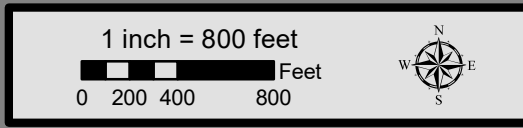


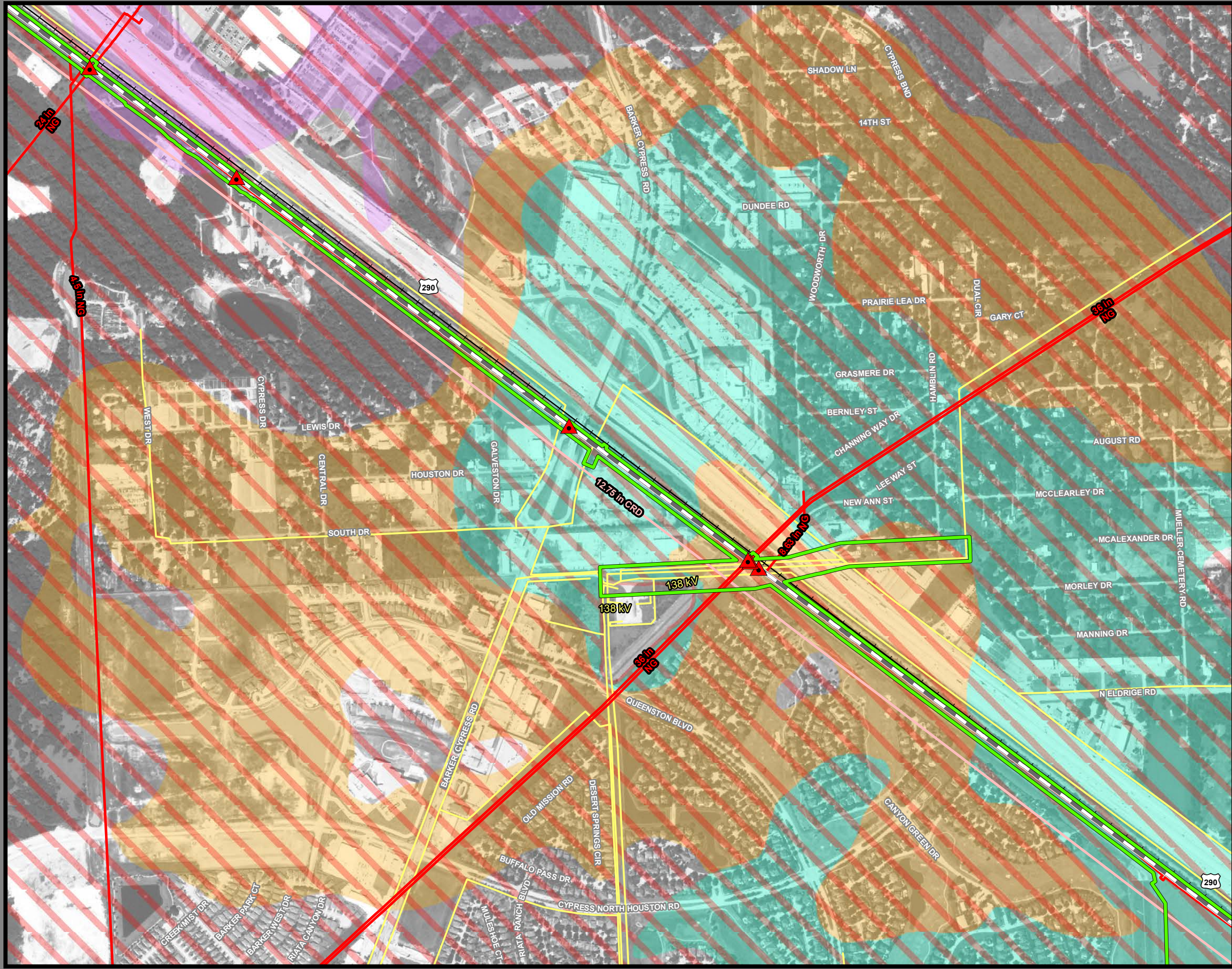
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 244 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
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Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



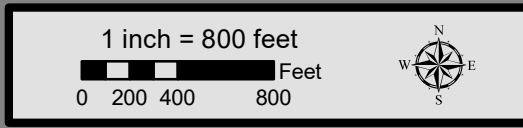


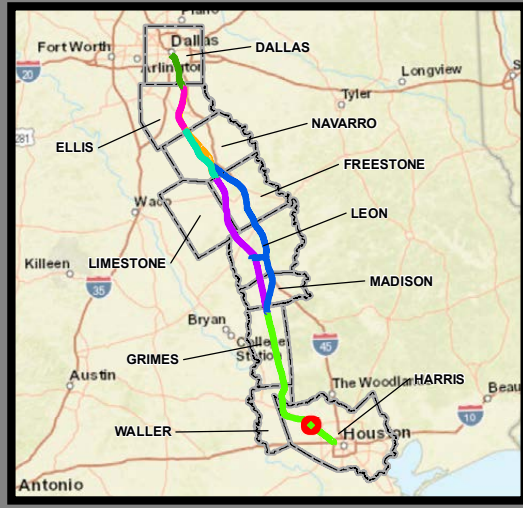
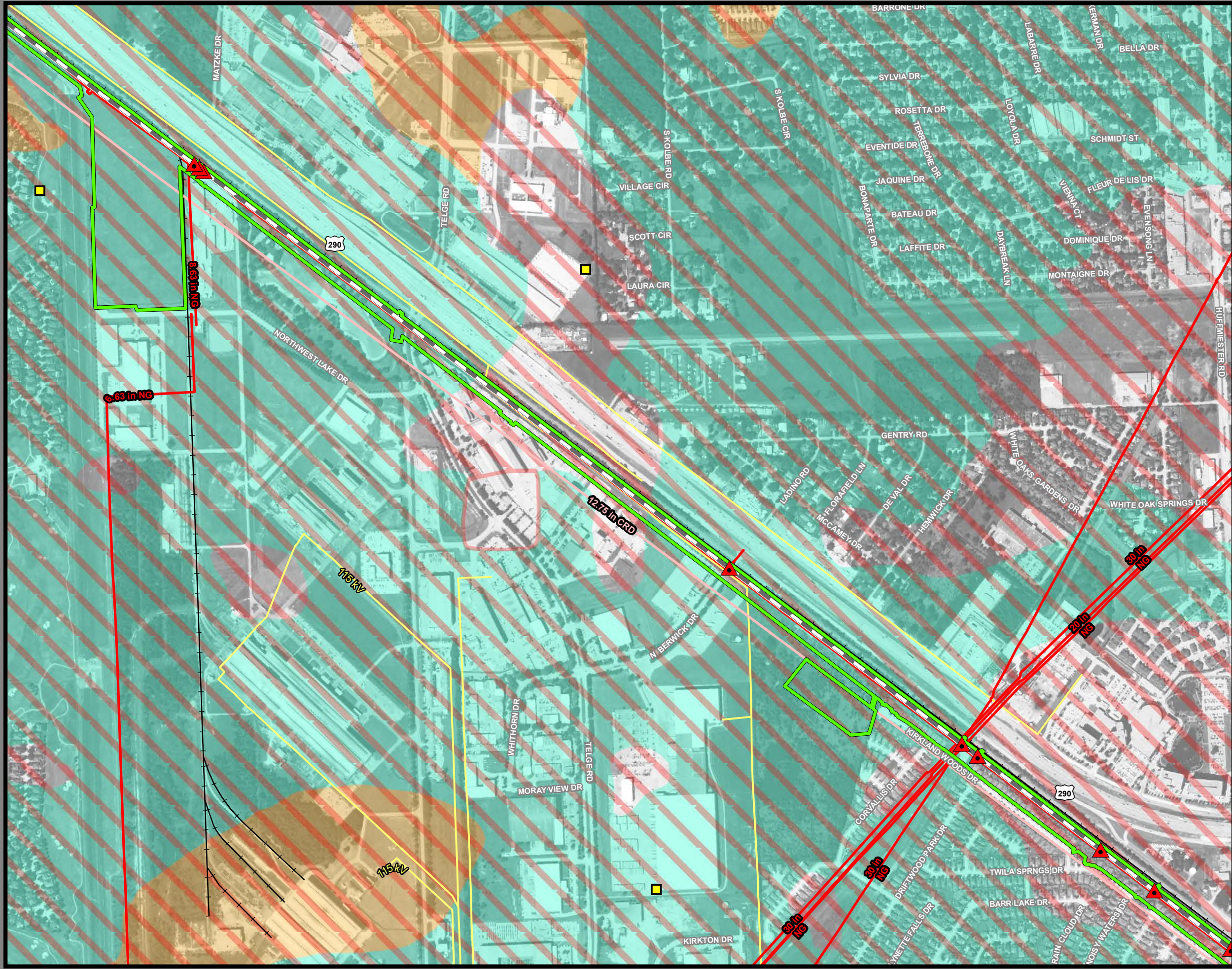
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 245 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1 (Green outline)	Mine (Blue circle)
Segment 2A (Pink outline)	Utility Crossing (Red triangle)
Segment 2B (Yellow outline)	Electric Transmission Line (Yellow line)
Segment 3A (Cyan outline)	
Segment 3B (Orange outline)	Oil/Gas Wells
Segment 3C (Blue outline)	Vertical (Yellow square)
Segment 4 (Purple outline)	Directional: Surface (Red square)
Segment 5 (Light Green outline)	Directional: Bottom (Orange square)
	Directional Well Line (Red line)
Track Configuration	Oil/Gas Pipelines
Viaduct (Grey line)	Active (Red line)
Embankment (Black line)	Abandoned (Pink line)
Cut (White line)	
County Boundary (Dashed line)	Soils
Railroad (Black line with cross-ticks)	Highly Erosive (Red hatched)
Faults (Orange line)	Hydric (Blue hatched)
	Prime Farmland (Yellow)
	Farmland of Statewide Importance (Pink)
	Prime Farmland if Drained (Cyan)

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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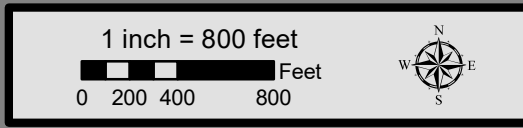


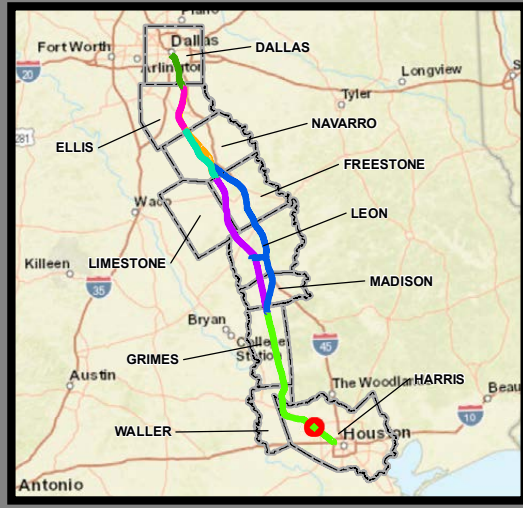
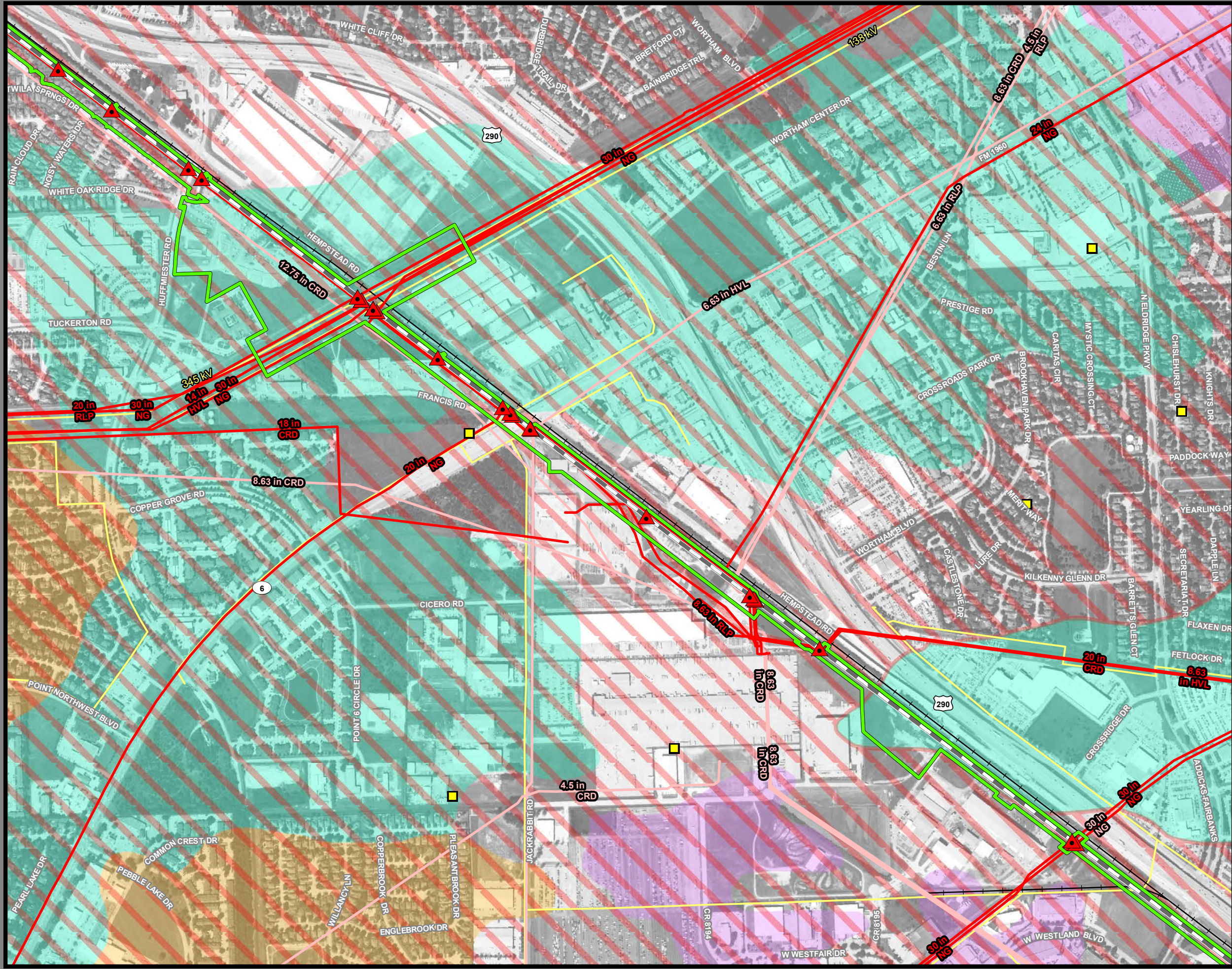
Dallas to Houston
High-Speed Rail Project
 Mineral and Utility Resources
 Segment 5
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Legend

<p>Limits of Disturbance</p> <ul style="list-style-type: none"> Segment 1 Segment 2A Segment 2B Segment 3A Segment 3B Segment 3C Segment 4 Segment 5 <p>Track Configuration</p> <ul style="list-style-type: none"> Viaduct Embankment Cut <p>County Boundary</p> <ul style="list-style-type: none"> County Boundary <p>Faults</p> <ul style="list-style-type: none"> Faults 	<p>Utilities</p> <ul style="list-style-type: none"> ● Mine ▲ Utility Crossing Electric Transmission Line <p>Oil/Gas Wells</p> <ul style="list-style-type: none"> Vertical Directional: Surface Directional: Bottom Directional Well Line <p>Oil/Gas Pipelines</p> <ul style="list-style-type: none"> Active Abandoned <p>Soils</p> <ul style="list-style-type: none"> Highly Erosive Hydric Prime Farmland Farmland of Statewide Importance Prime Farmland if Drained
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Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



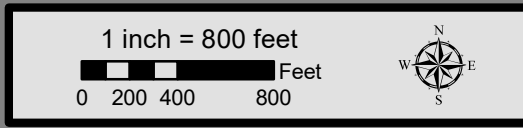


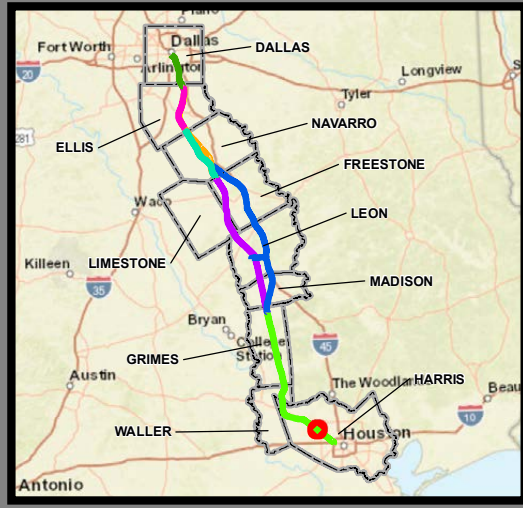
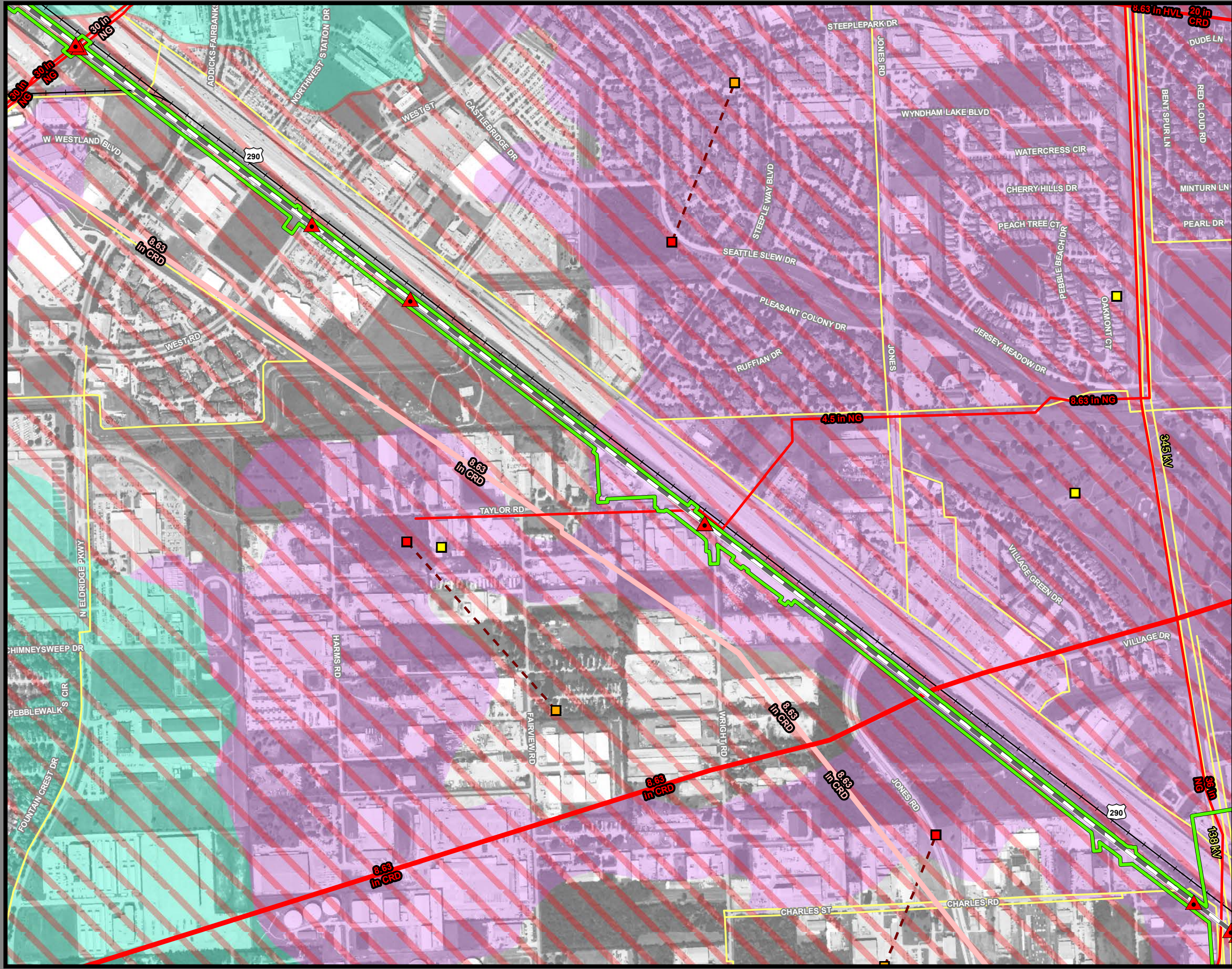
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 247 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



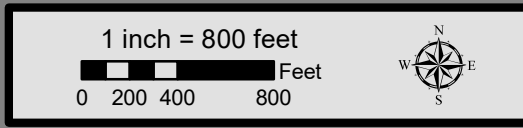


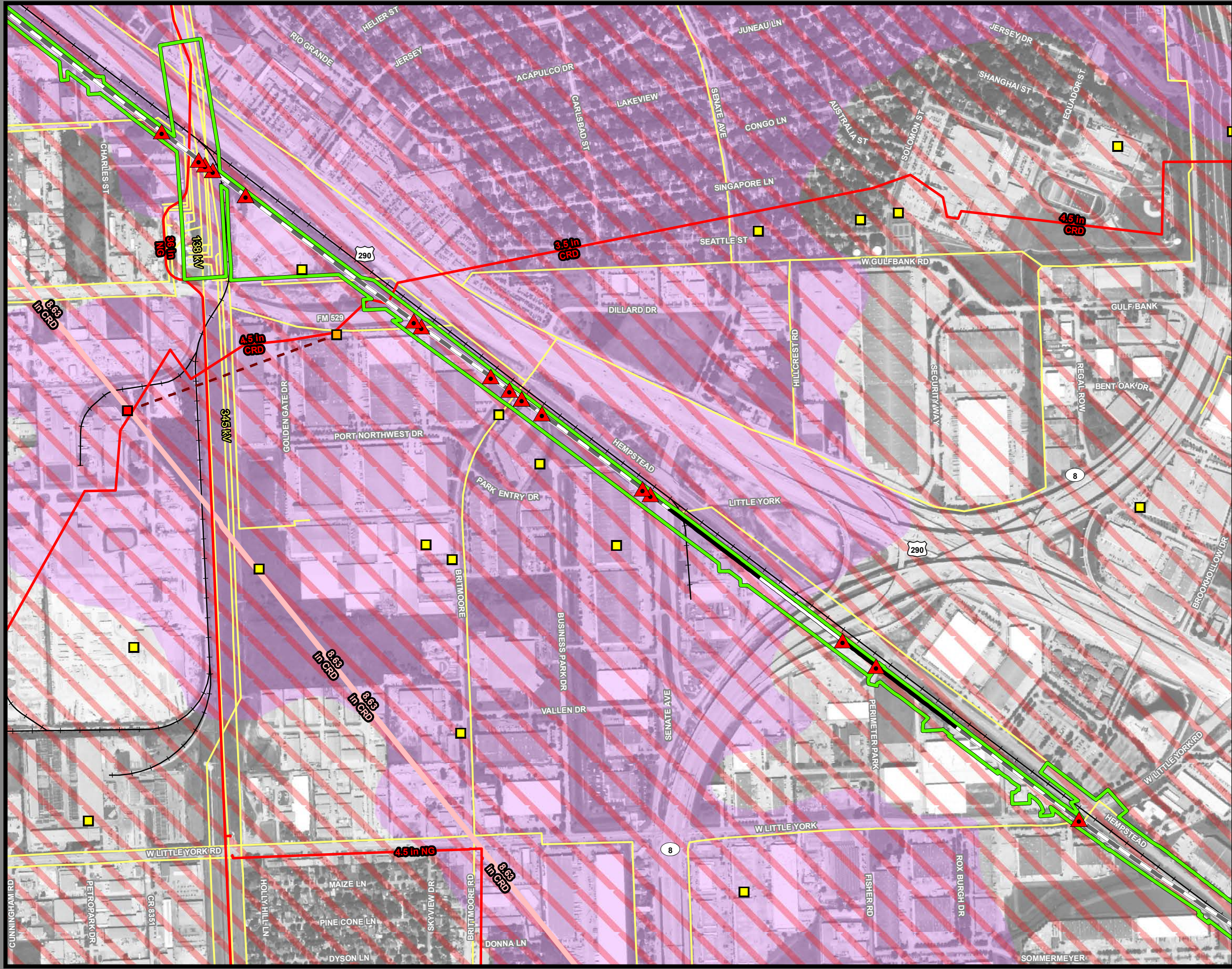
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 248 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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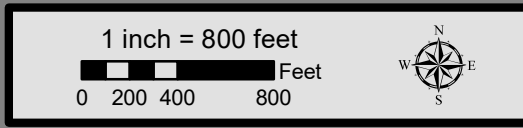


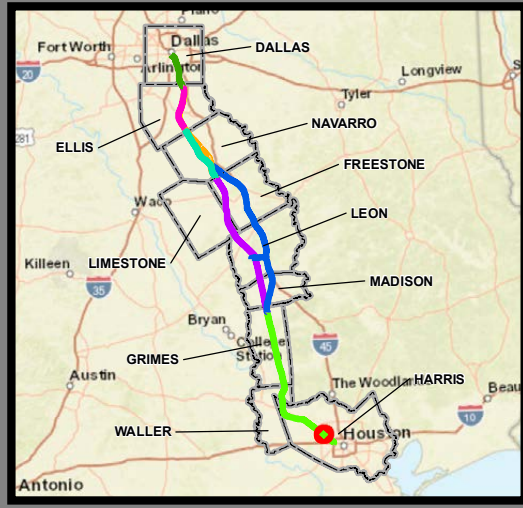
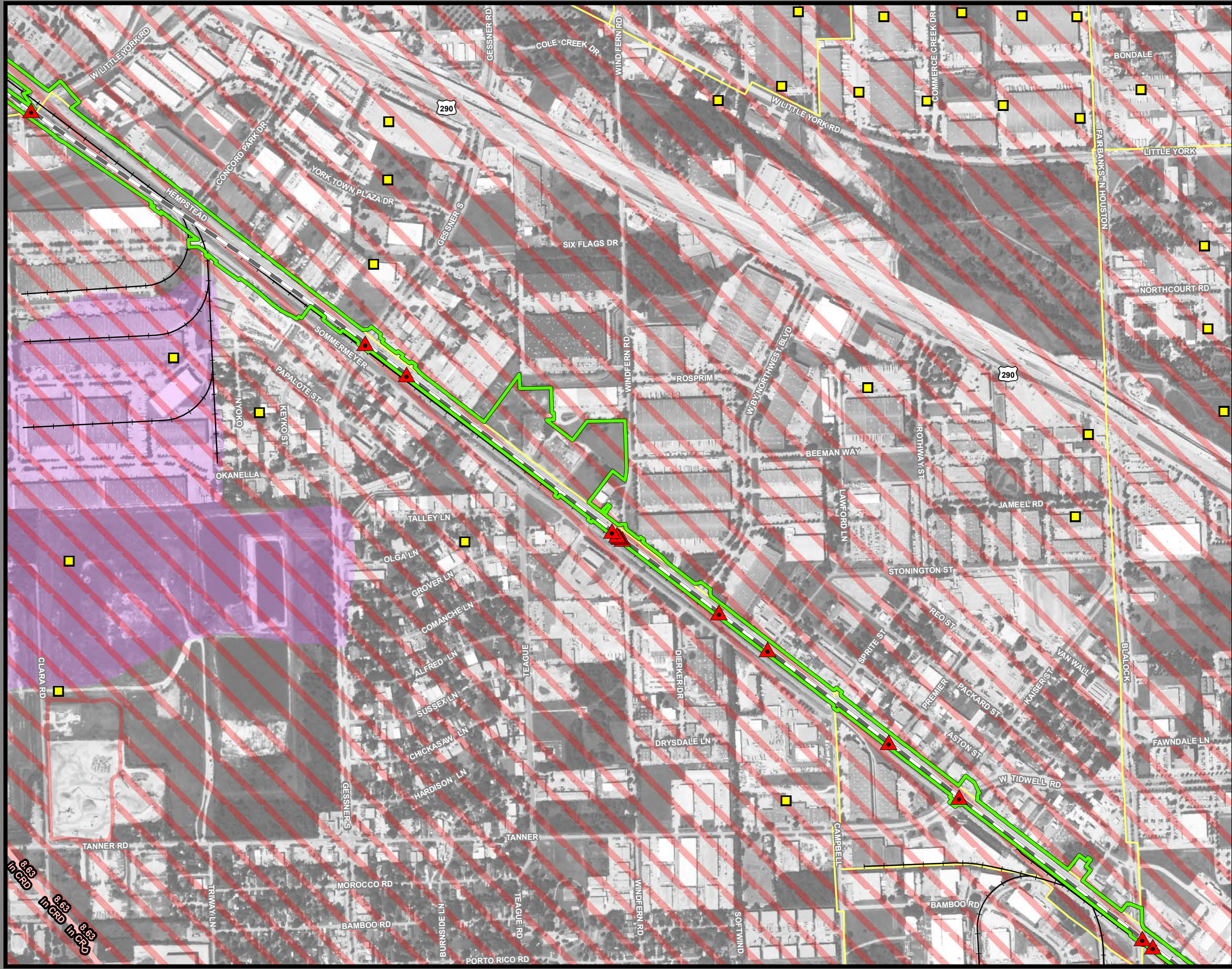
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
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Legend

Limits of Disturbance	Utilities
Segment 1 (Green)	Mine (Blue circle)
Segment 2A (Pink)	Utility Crossing (Red triangle)
Segment 2B (Yellow)	Electric Transmission Line (Yellow line)
Segment 3A (Cyan)	Oil/Gas Wells
Segment 3B (Orange)	Vertical (Yellow square)
Segment 3C (Blue)	Directional: Surface (Red square)
Segment 4 (Purple)	Directional: Bottom (Orange square)
Segment 5 (Green)	Directional Well Line (Red dashed line)
Track Configuration	Oil/Gas Pipelines
Viaduct (Grey line)	Active (Red line)
Embankment (Black line)	Abandoned (Orange line)
Cut (White line)	Soils
County Boundary (Dashed black line)	Highly Erosive (Red hatched)
Railroad (Black line with cross-ticks)	Hydric (Blue hatched)
Faults (Orange line)	Prime Farmland (Yellow)
	Farmland of Statewide Importance (Purple)
	Prime Farmland if Drained (Cyan)

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



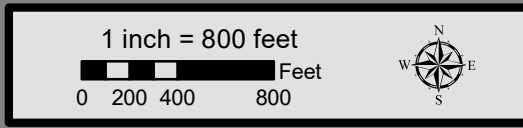


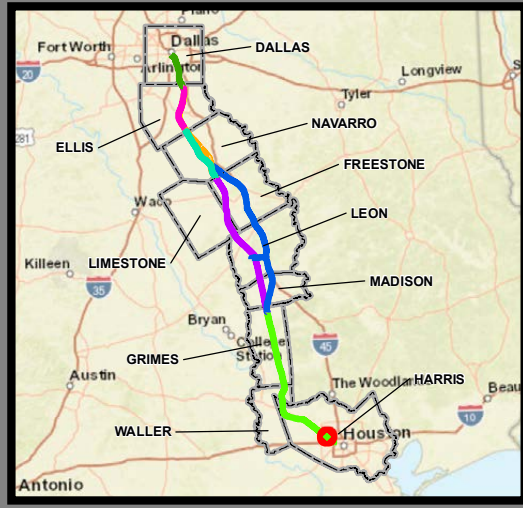
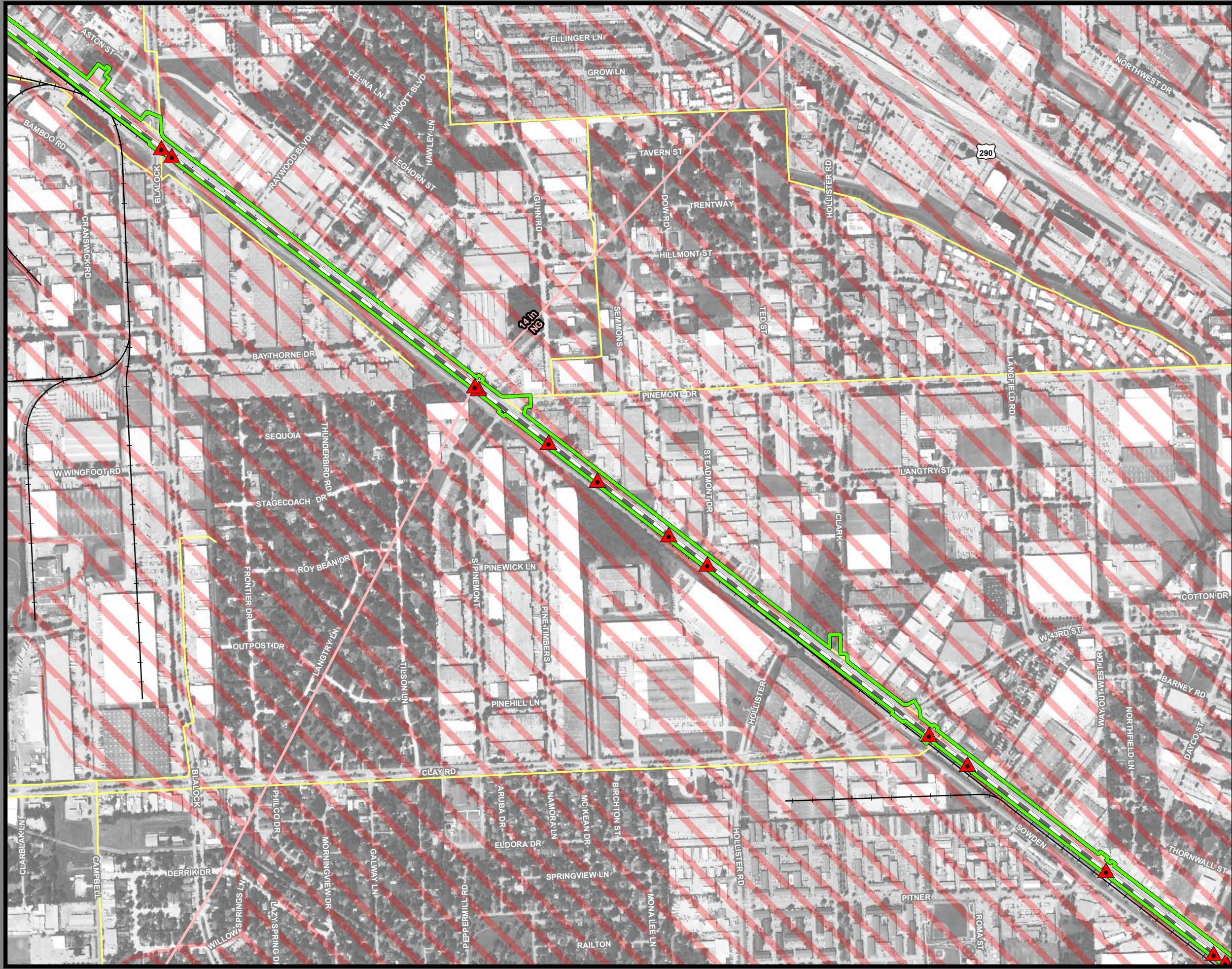
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
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Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



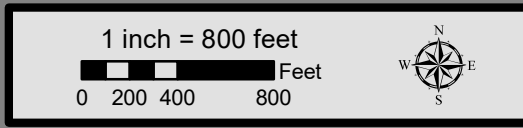


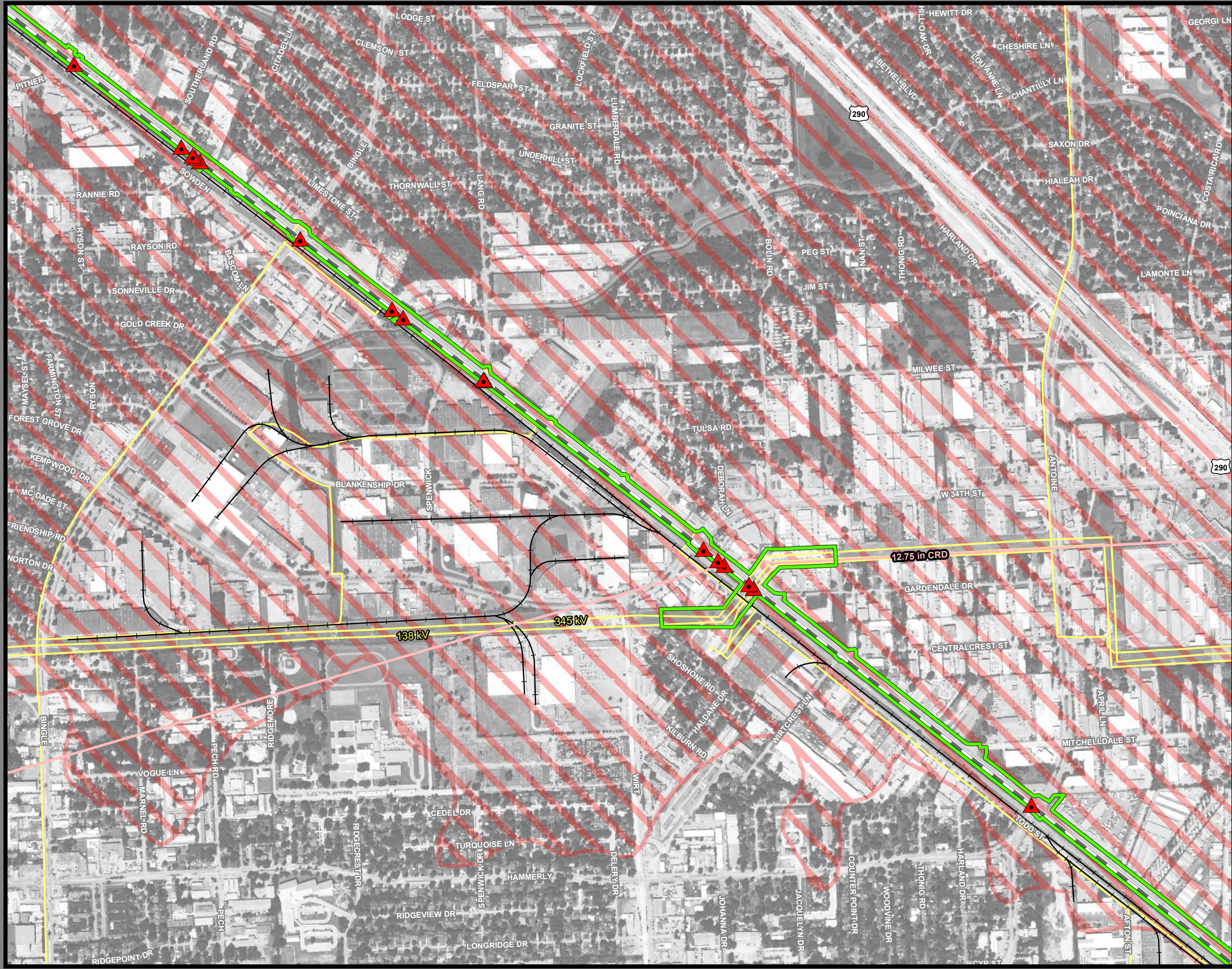
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 251 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
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Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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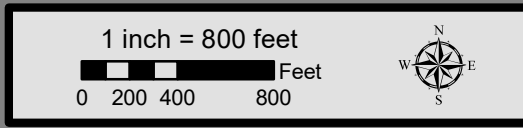


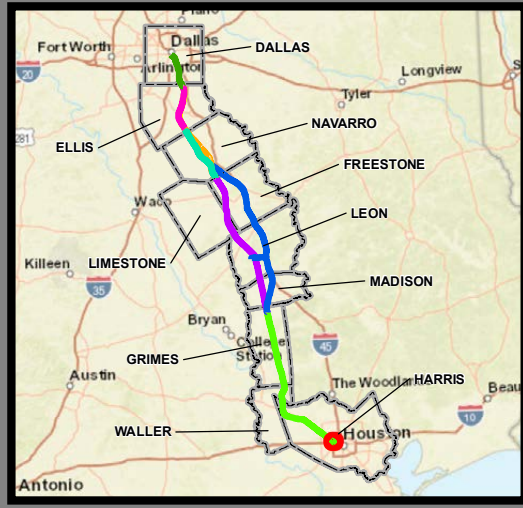
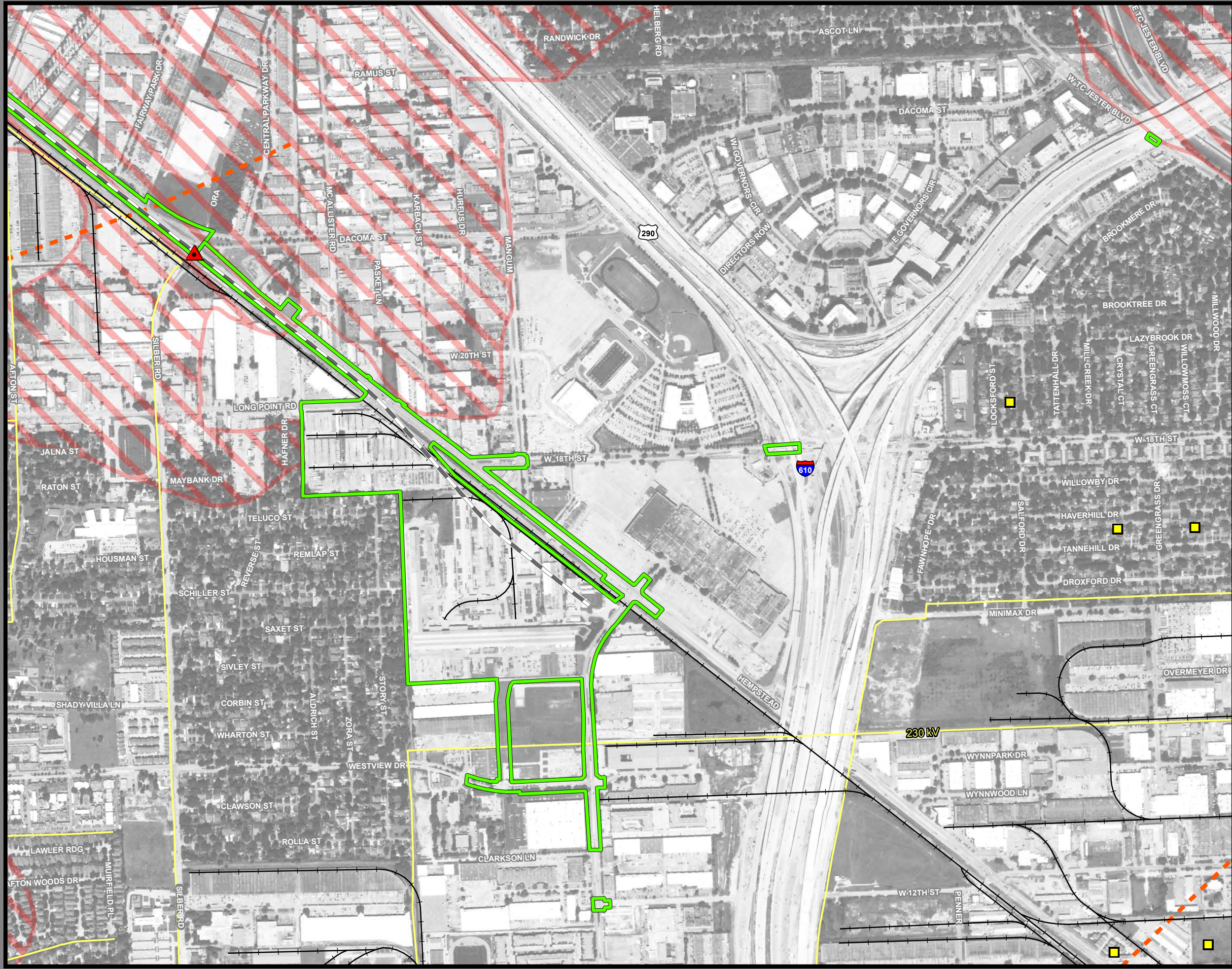
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5
Sheet 252 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
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 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
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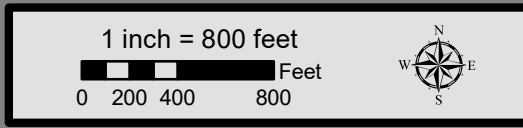


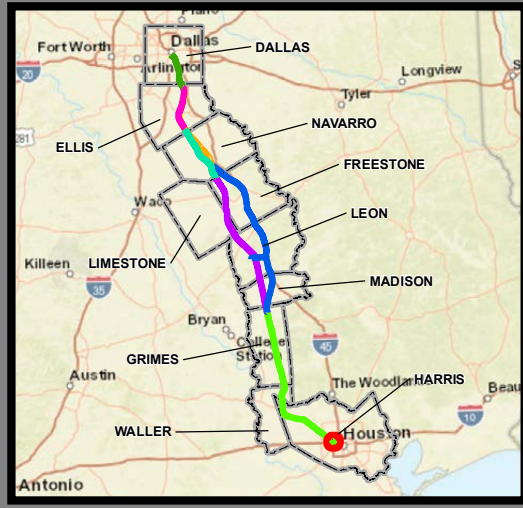
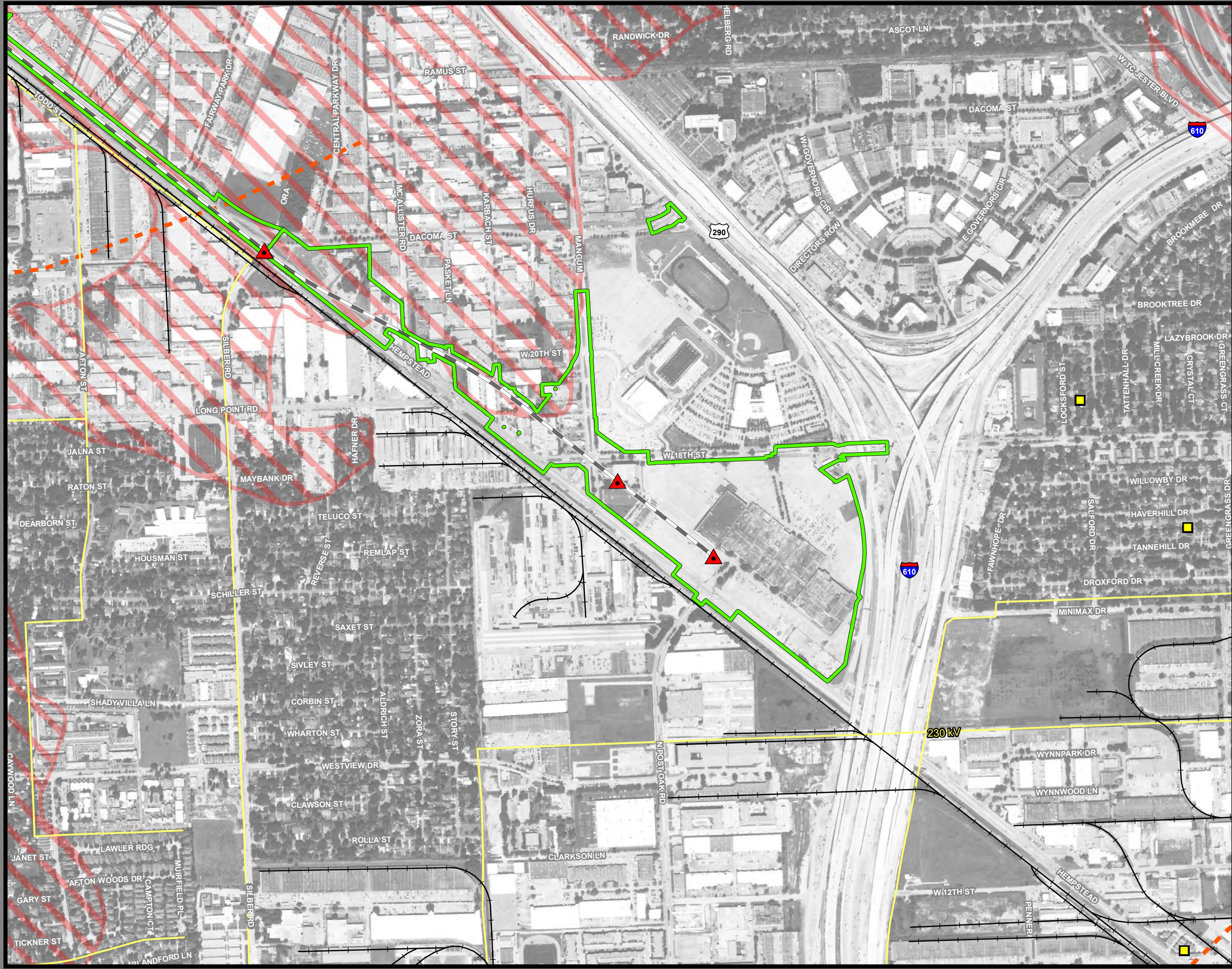
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5, Industrial Site Terminal Option
Sheet 253 of 257**

Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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Aerial Imagery: USDA NAIP 2016



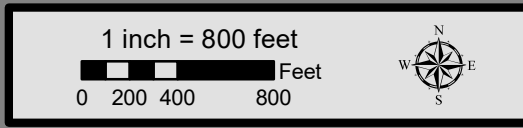


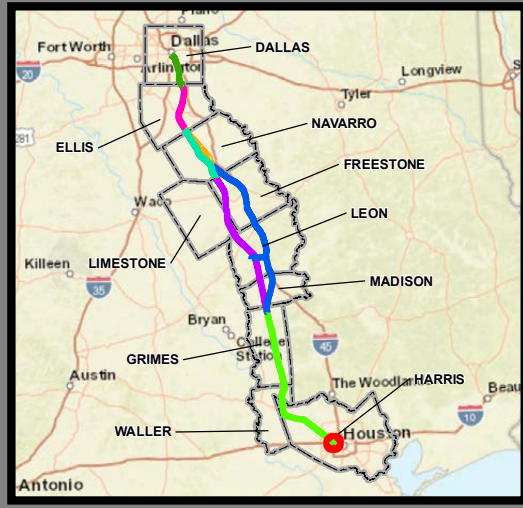
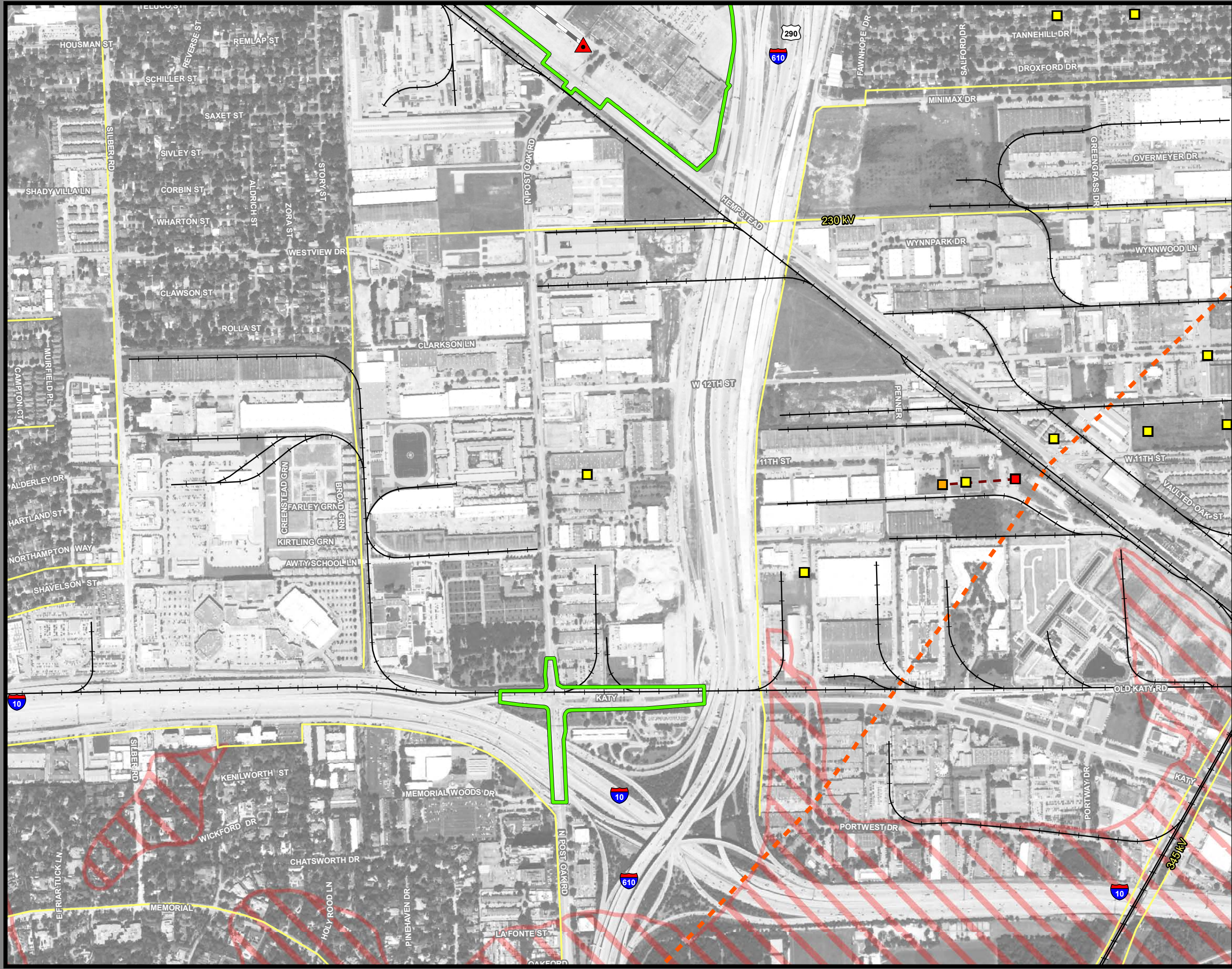
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5, Northwest Mall Terminal Option
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Legend

Limits of Disturbance	Utilities
Segment 1 (Green)	Mine (Blue circle)
Segment 2A (Pink)	Utility Crossing (Red triangle)
Segment 2B (Yellow)	Electric Transmission Line (Yellow line)
Segment 3A (Cyan)	Oil/Gas Wells
Segment 3B (Orange)	Vertical (Yellow square)
Segment 3C (Blue)	Directional: Surface (Red square)
Segment 4 (Purple)	Directional: Bottom (Orange square)
Segment 5 (Green)	Directional Well Line (Red dashed line)
Track Configuration	Oil/Gas Pipelines
Viaduct (Grey line)	Active (Red line)
Embankment (Black line)	Abandoned (Pink line)
Cut (White line)	Soils
County Boundary (Dashed line)	Highly Erosive (Red hatched)
Railroad (Black line with cross-ticks)	Hydric (Blue hatched)
Faults (Orange dashed line)	Prime Farmland (Yellow)
	Farmland of Statewide Importance (Pink)
	Prime Farmland if Drained (Cyan)

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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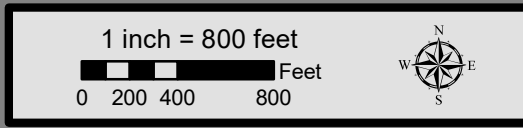


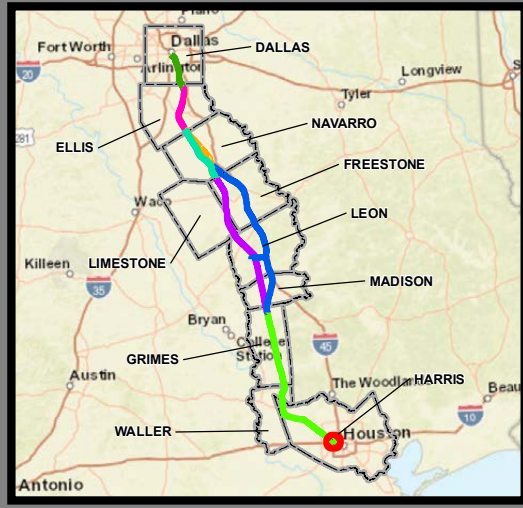
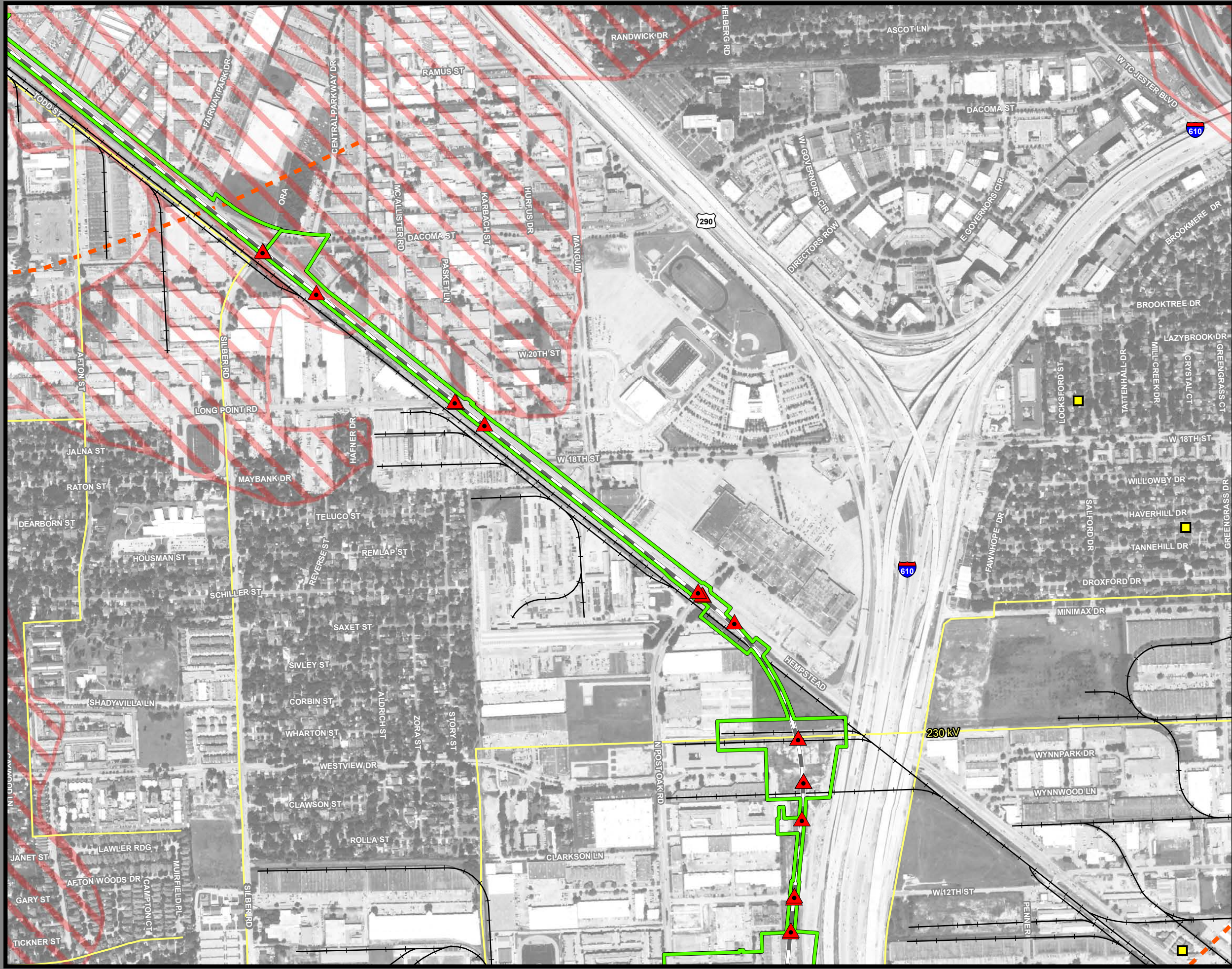
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5, Northwest Mall Terminal Option
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018, Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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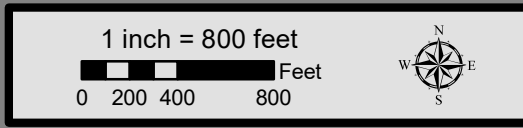


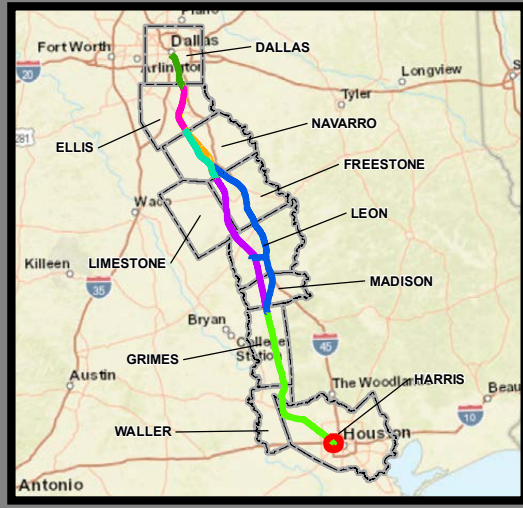
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 5, Northwest Transit Center Terminal Option
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erosive
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; NG - Natural Gas; NG-FWS - Natural Gas FWS;
 HVL - Highly Volatile Liquid; RLP - Refined Liquid Product
Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2018; Mines - USGS 2003; Electric Transmission Lines - Rextag 2018; Oil/Gas Wells, Pipelines - TxRRC 2018; Roads - TxDOT 2018; Railroads - TxDOT 2015; Utility Crossings - ARUP 2019; ESRI Street Map
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**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources**
Segment 5, Northwest Transit Center Terminal Option
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Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Line
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erosive
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
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Abbreviated Pipeline Labels:
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Aerial Imagery: USDA NAIP 2016

