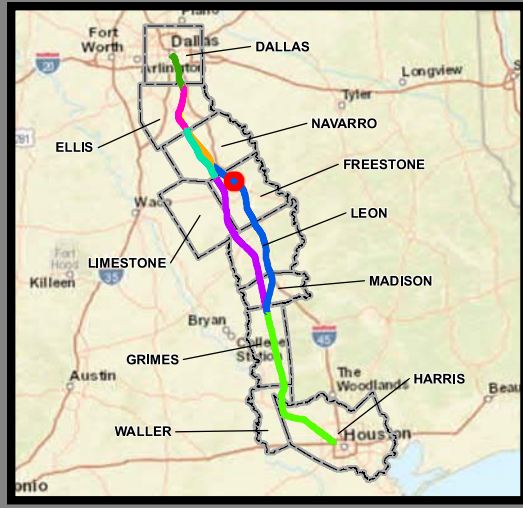
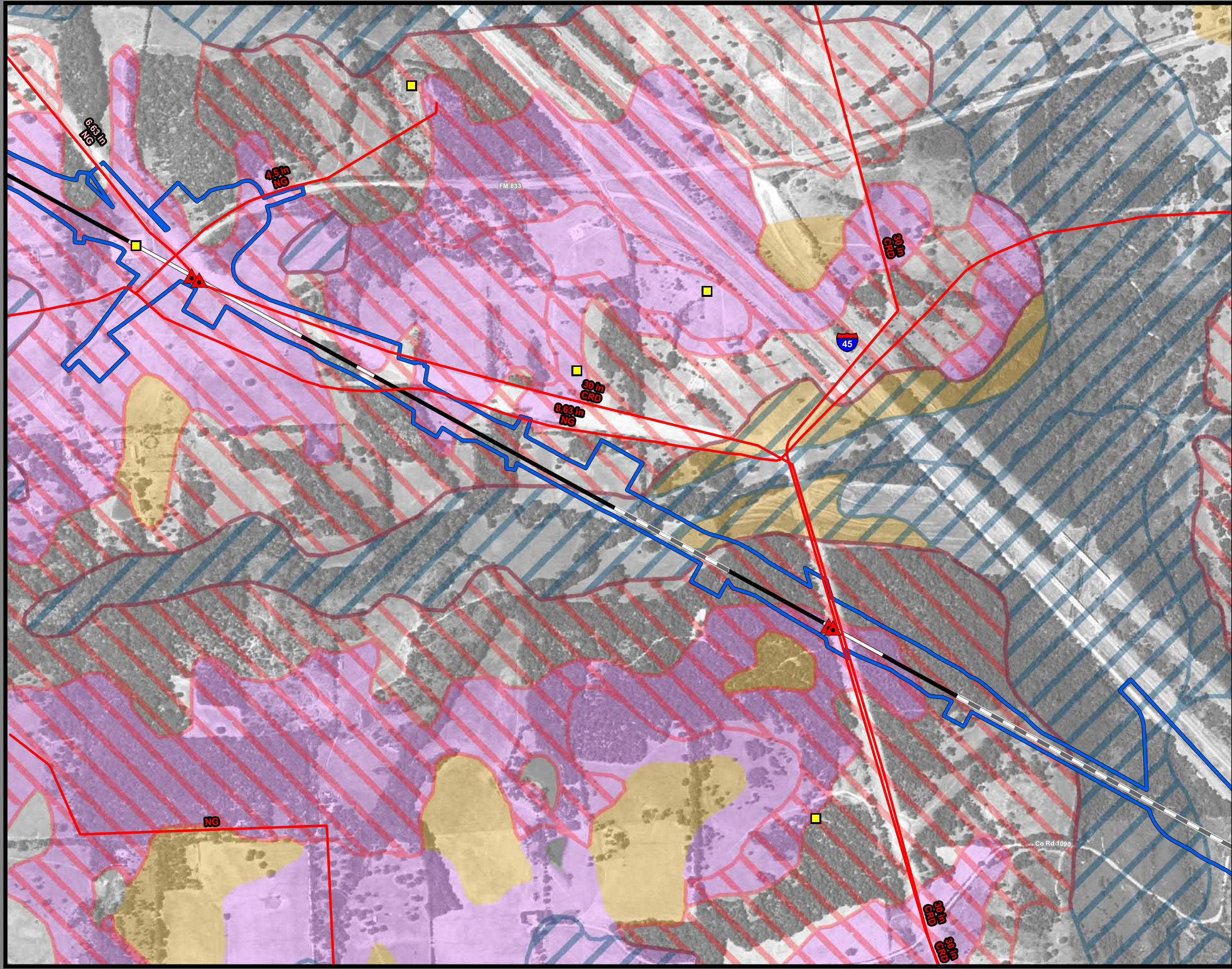


**Dallas to Houston High-Speed Rail
Draft Environmental Impact Statement**

**Appendix D:
Mineral and Utility Resources
Mapbook Set 2 of 3**



**Federal Railroad
Administration**



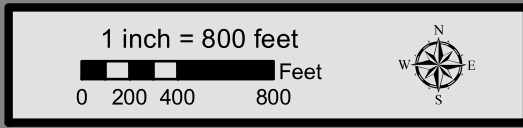
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 101 of 257**

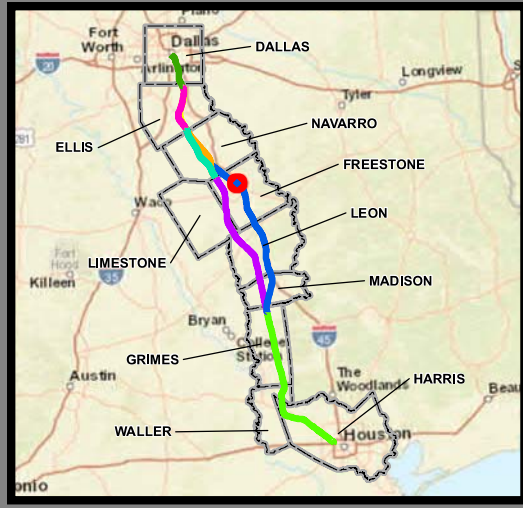
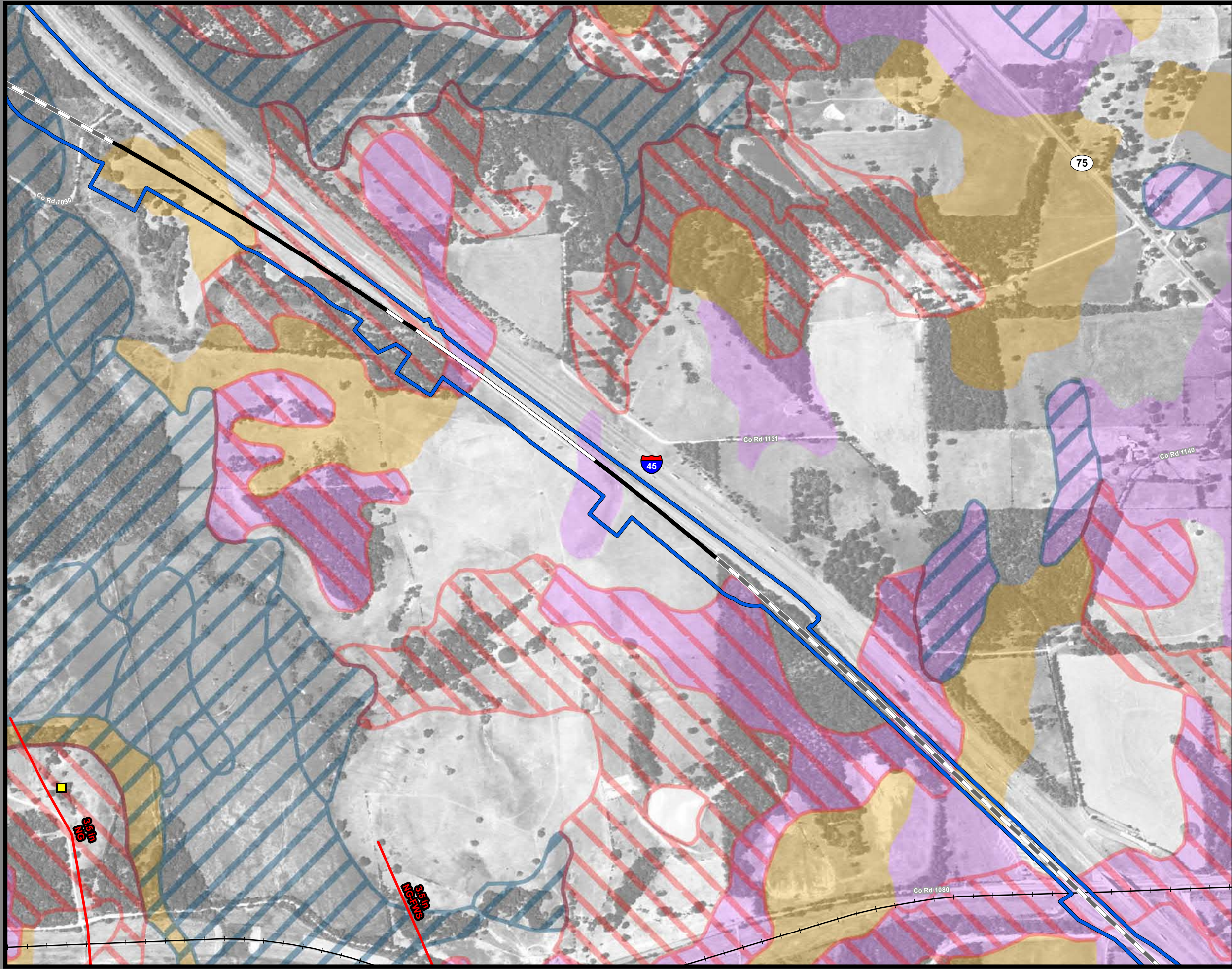
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

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Aerial Imagery: USDA NAIP 2014





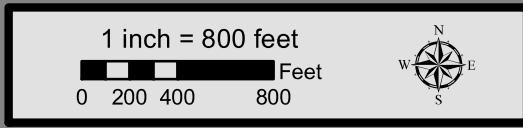
**Dallas to Houston
High-Speed Rail Project
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Segment 3C
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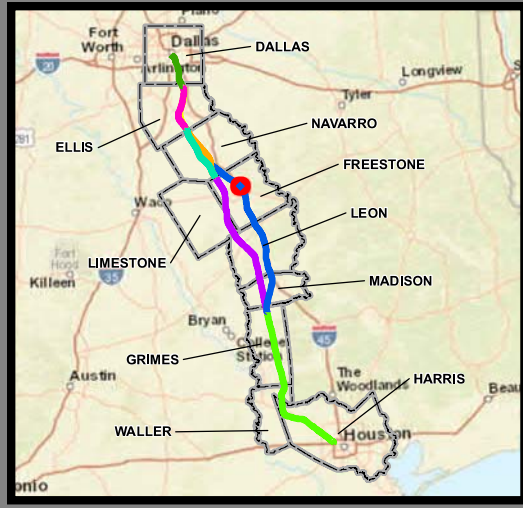
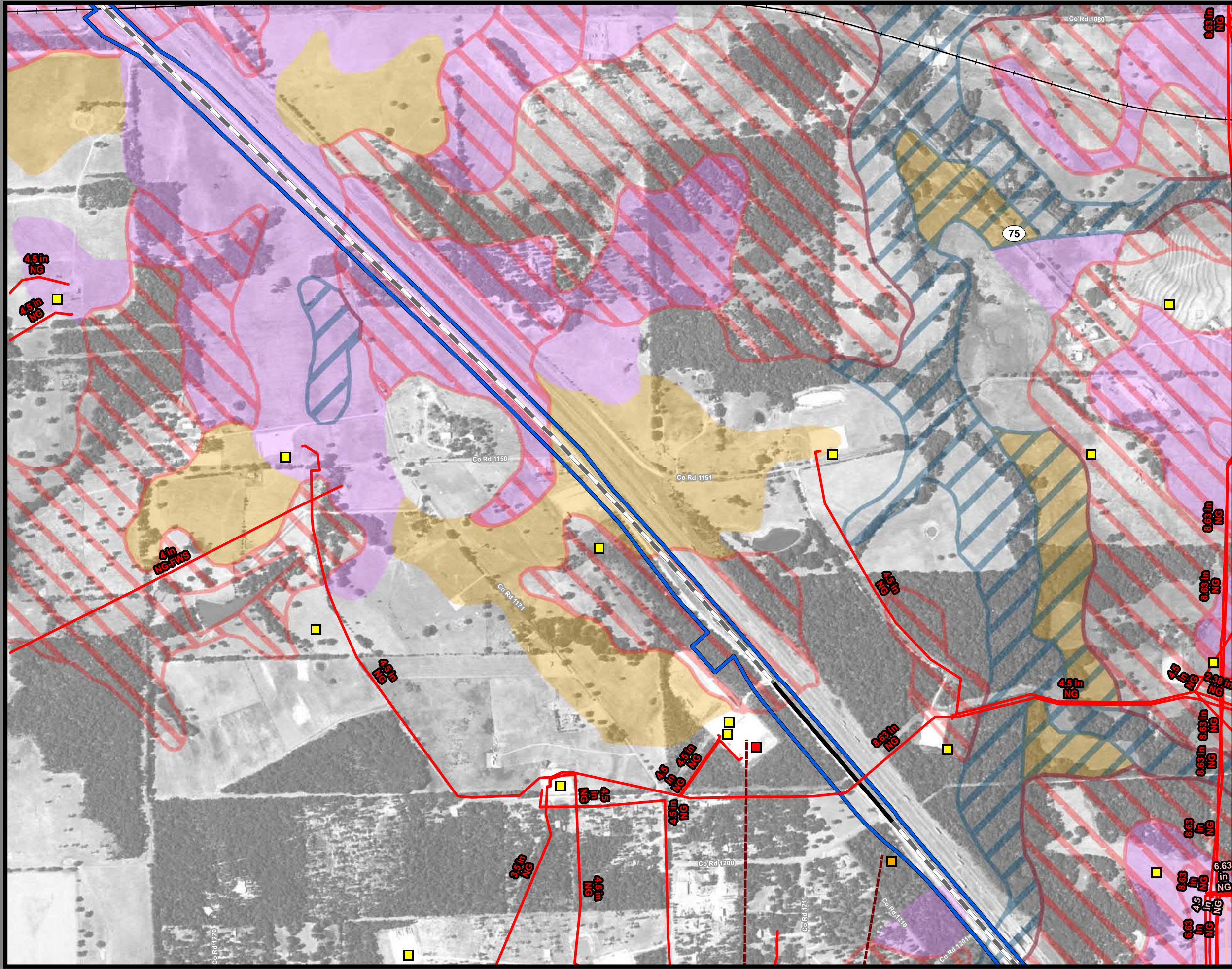
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Segment 5	Directional: Bottom
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Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
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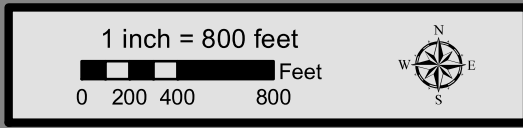
**Dallas to Houston
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Mineral and Utility Resources
Segment 3C
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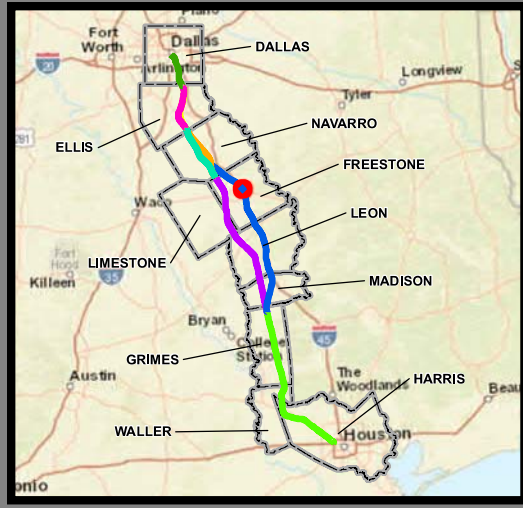
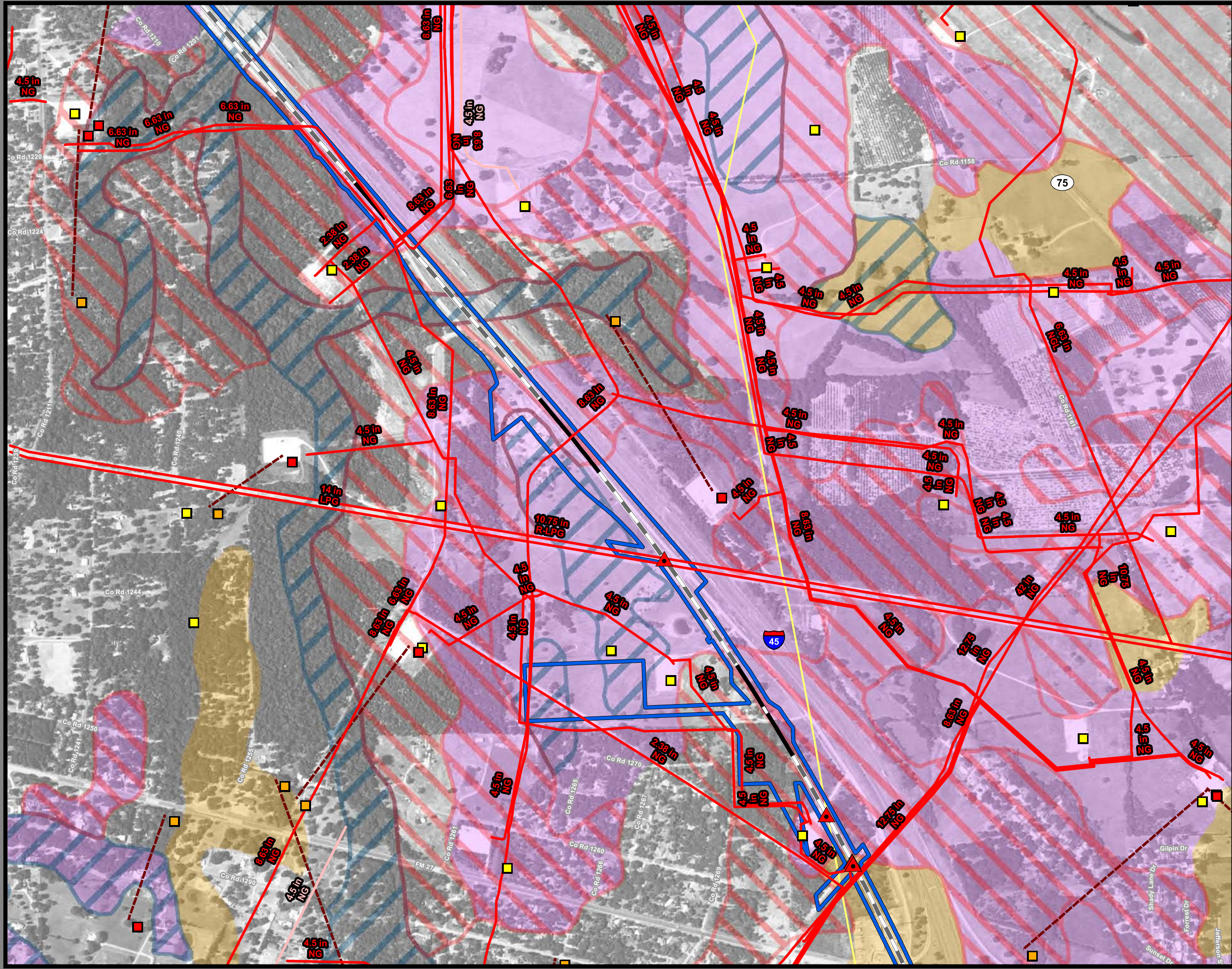
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Embankment	Abandoned
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County Boundary	Soils
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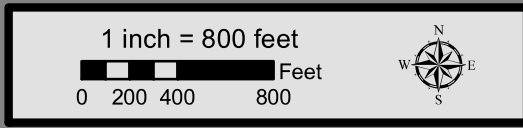
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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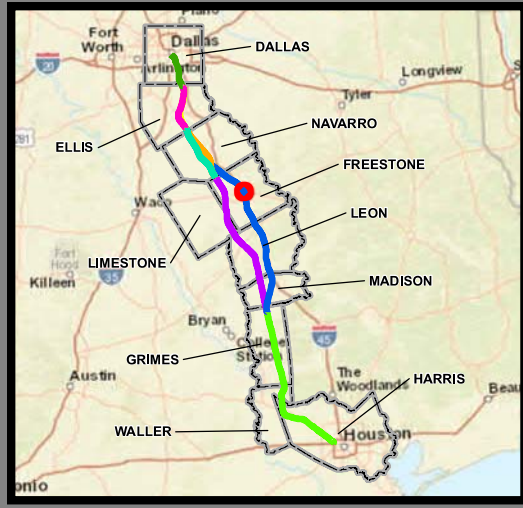
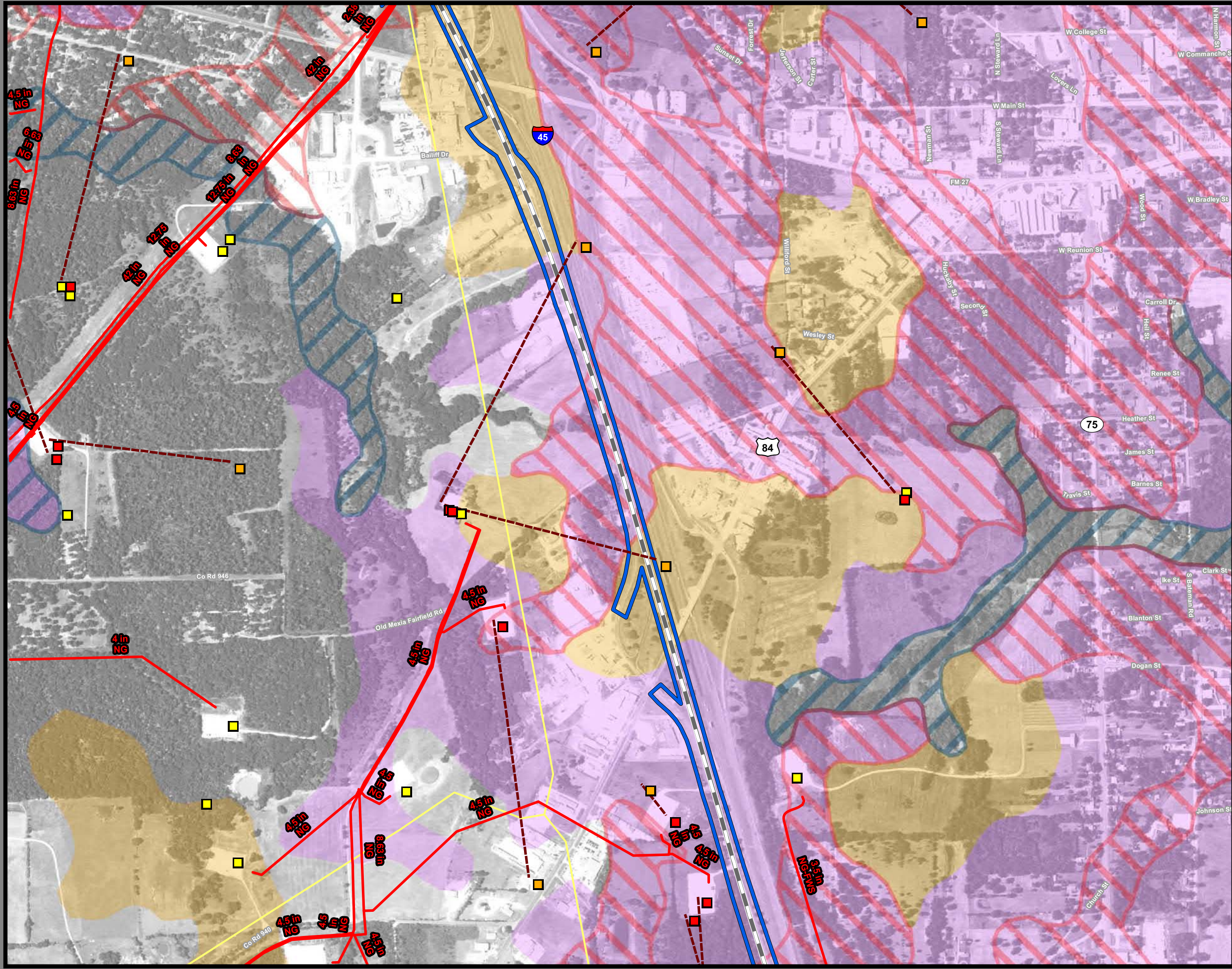
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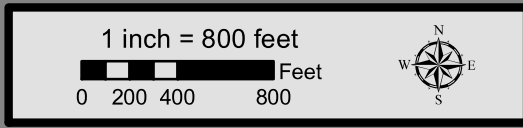
**Dallas to Houston
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Segment 3C
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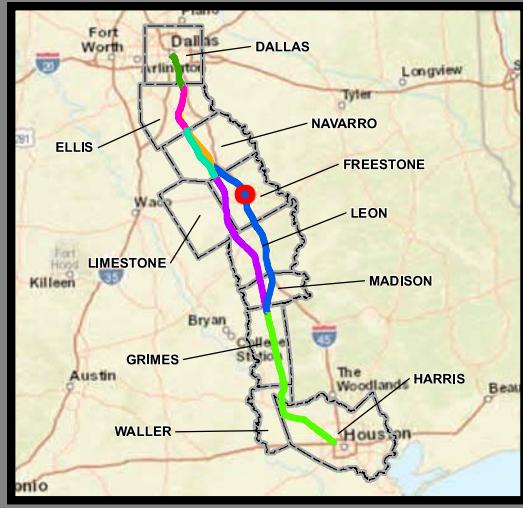
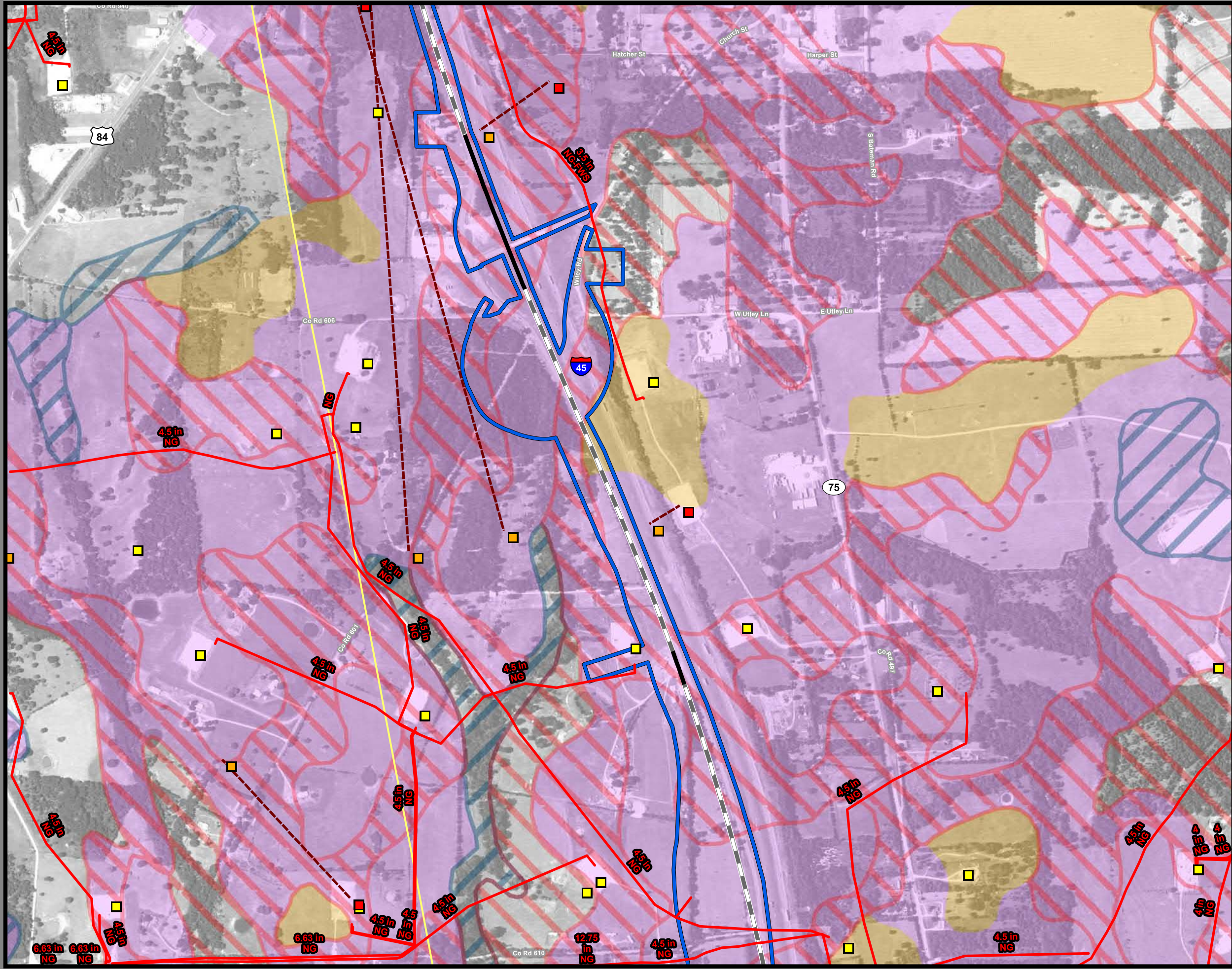
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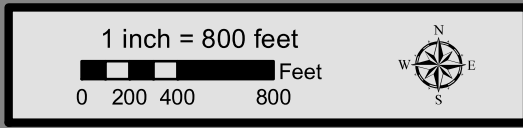
**Dallas to Houston
High-Speed Rail Project
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Segment 3C
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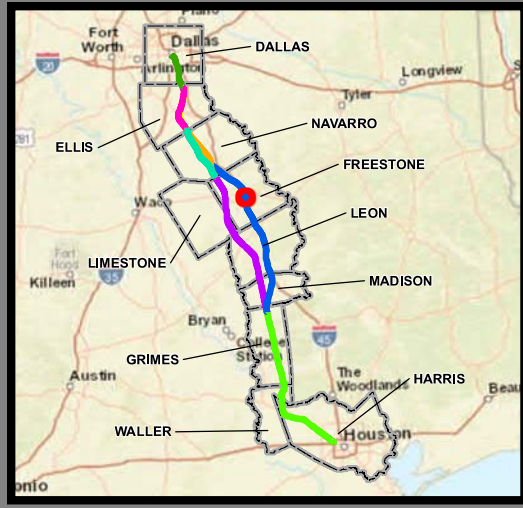
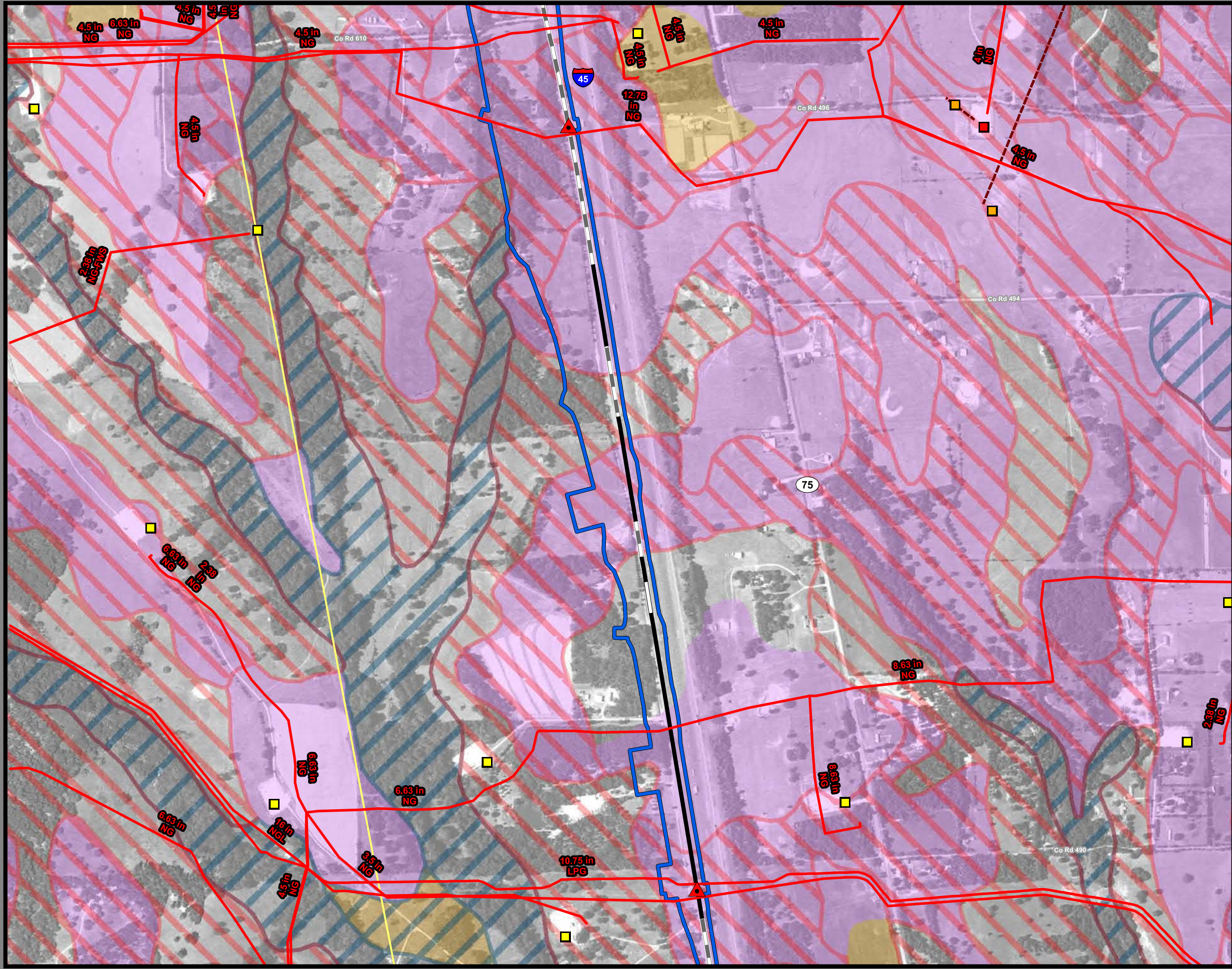
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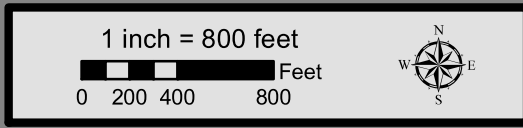
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High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 107 of 257**

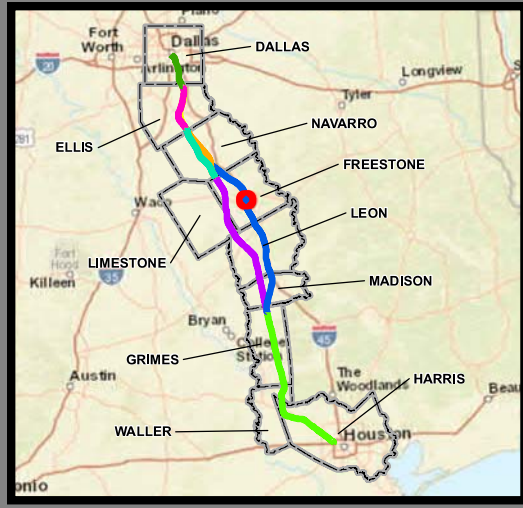
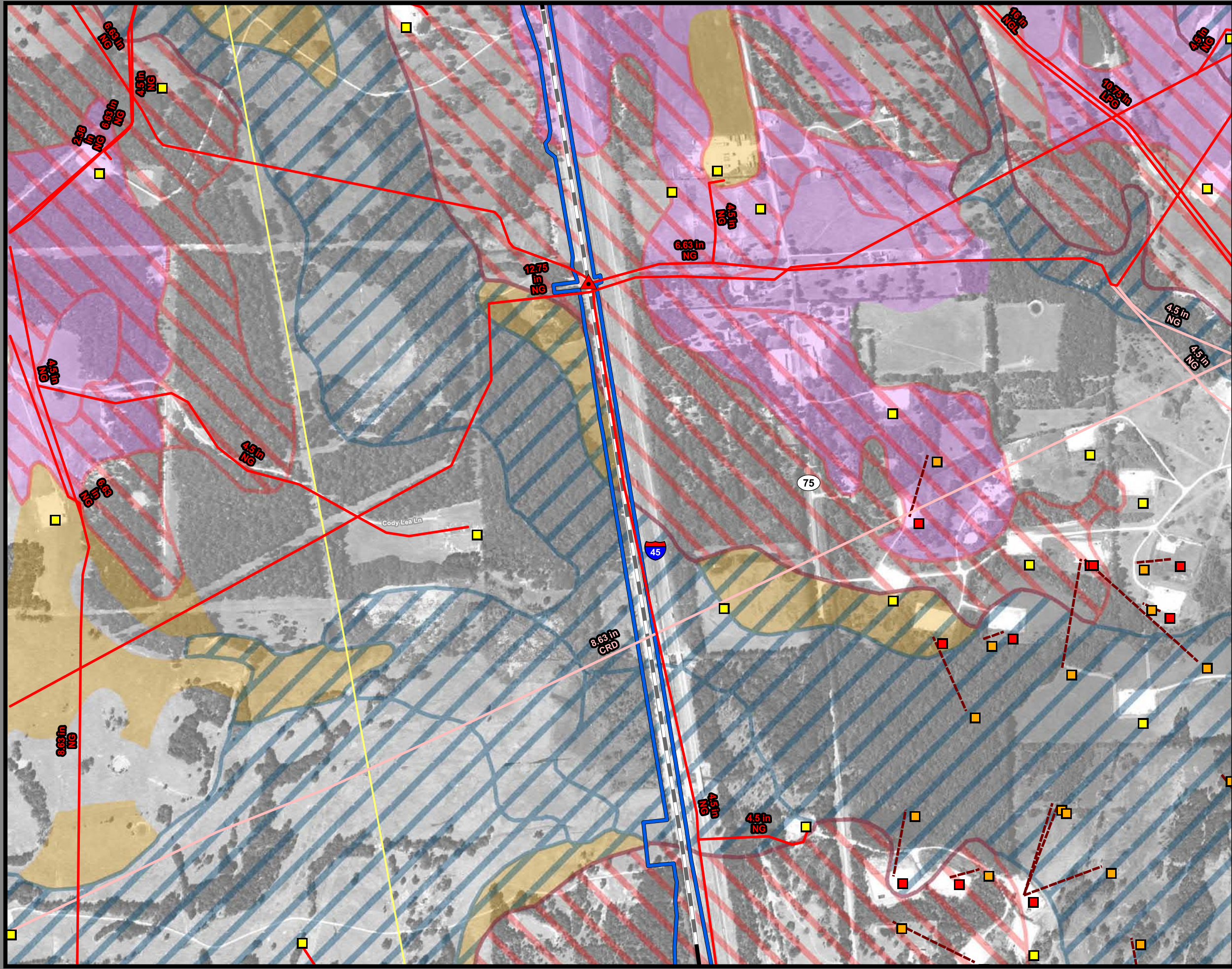
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High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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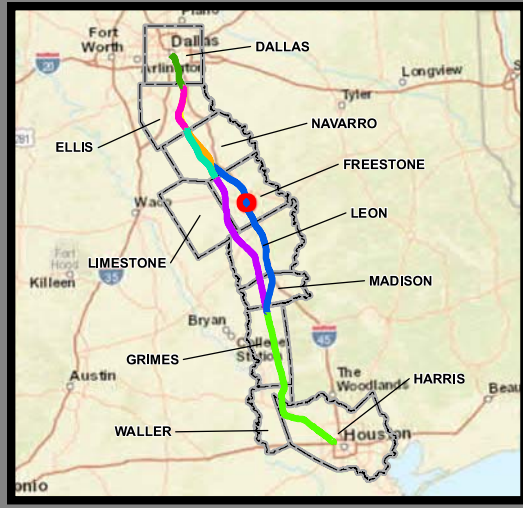
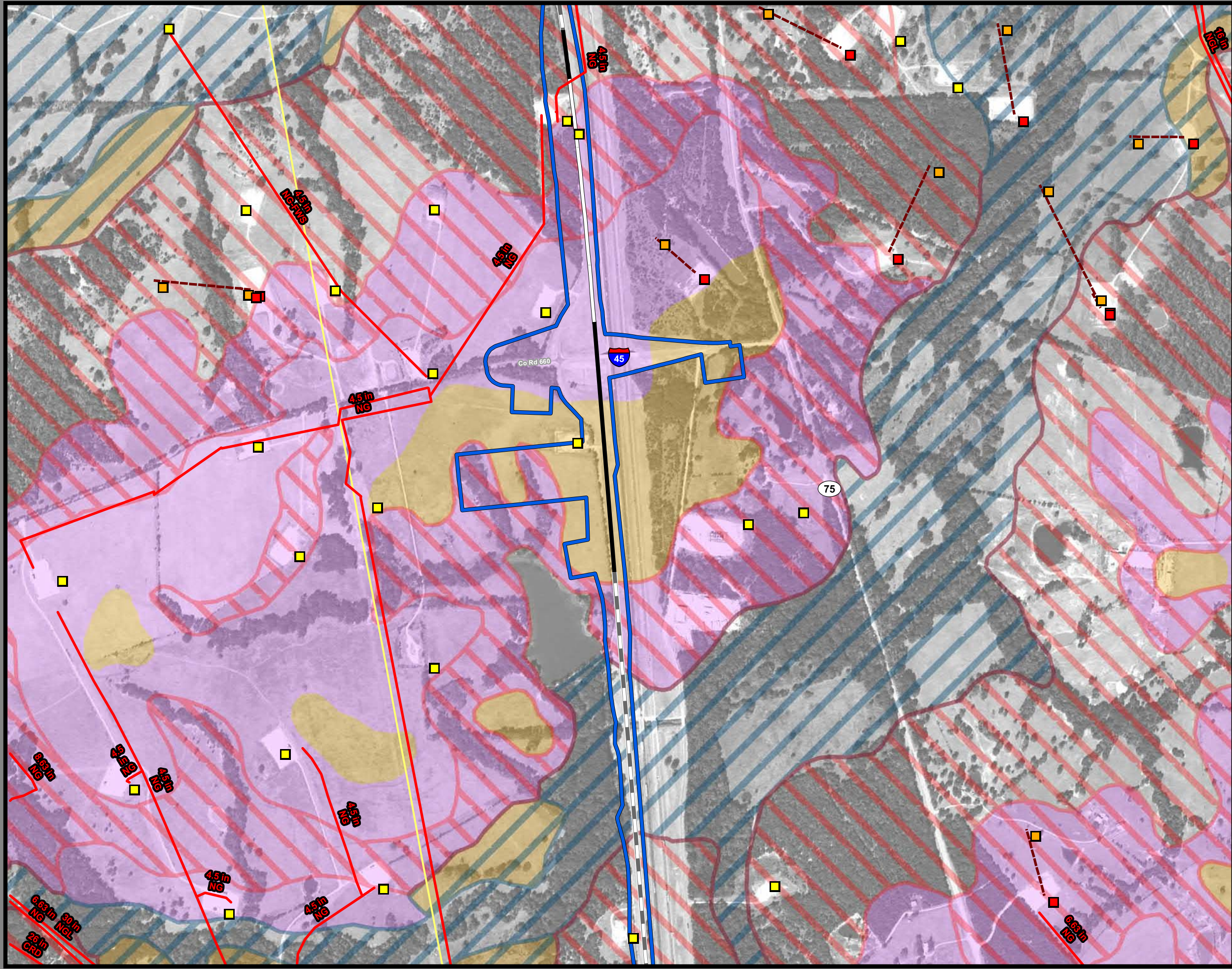
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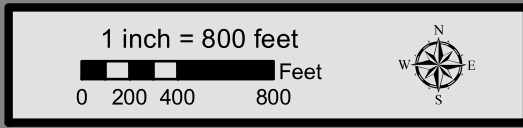
**Dallas to Houston
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Mineral and Utility Resources
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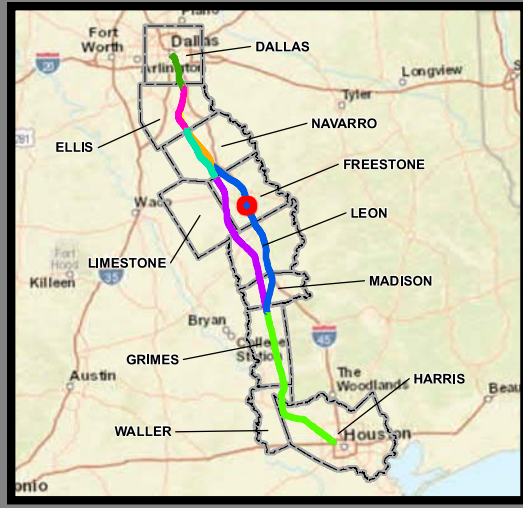
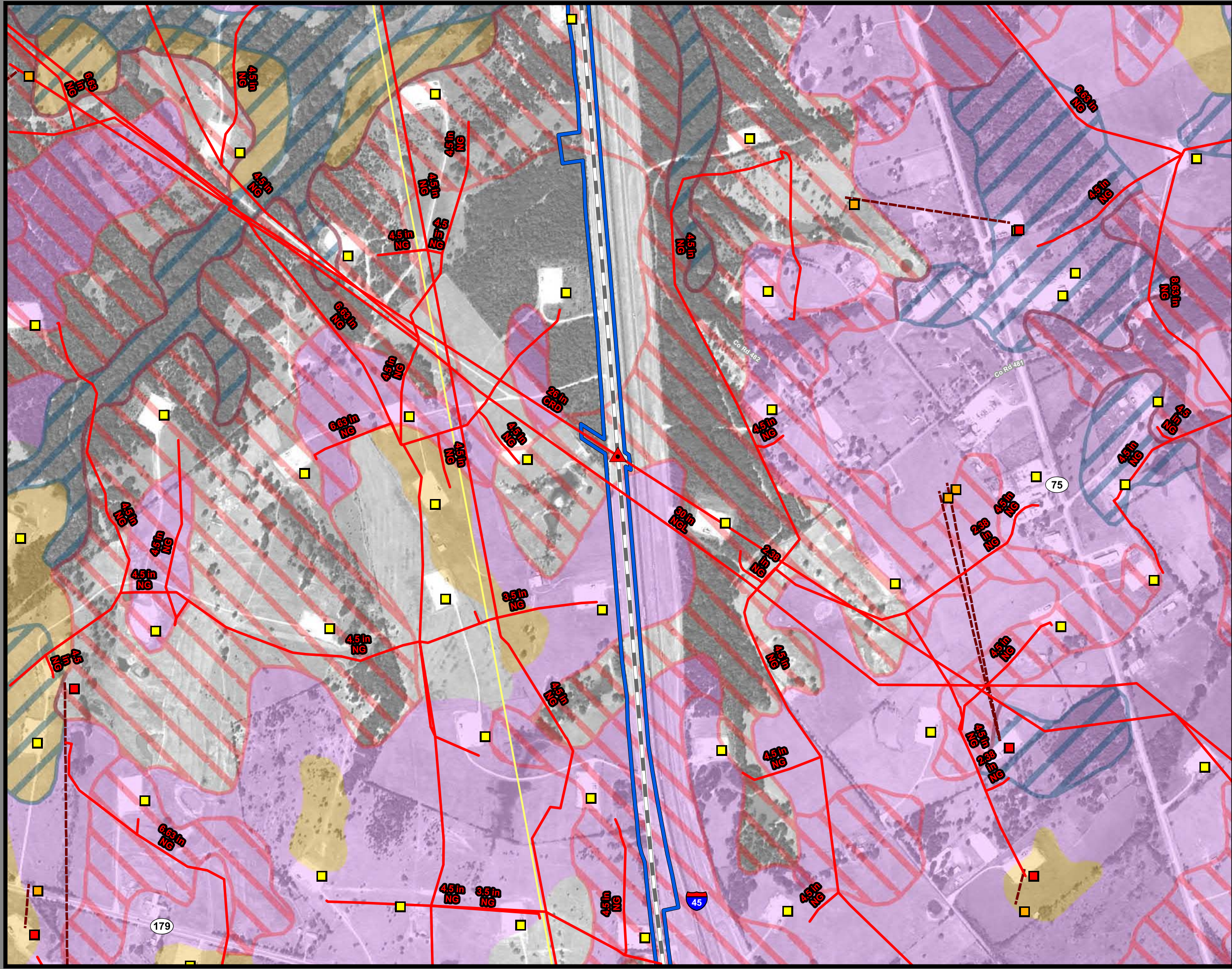
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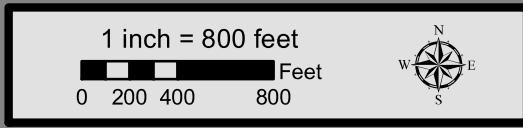
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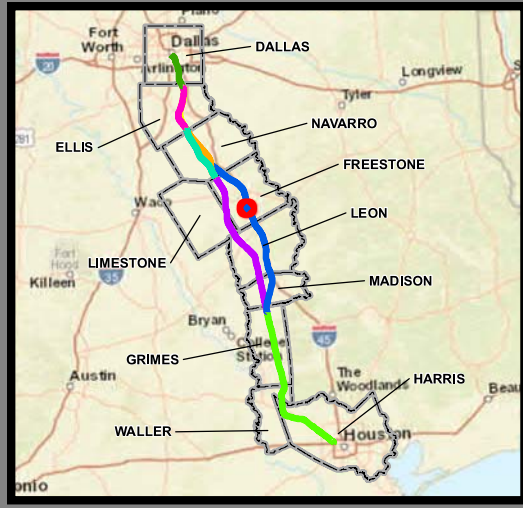
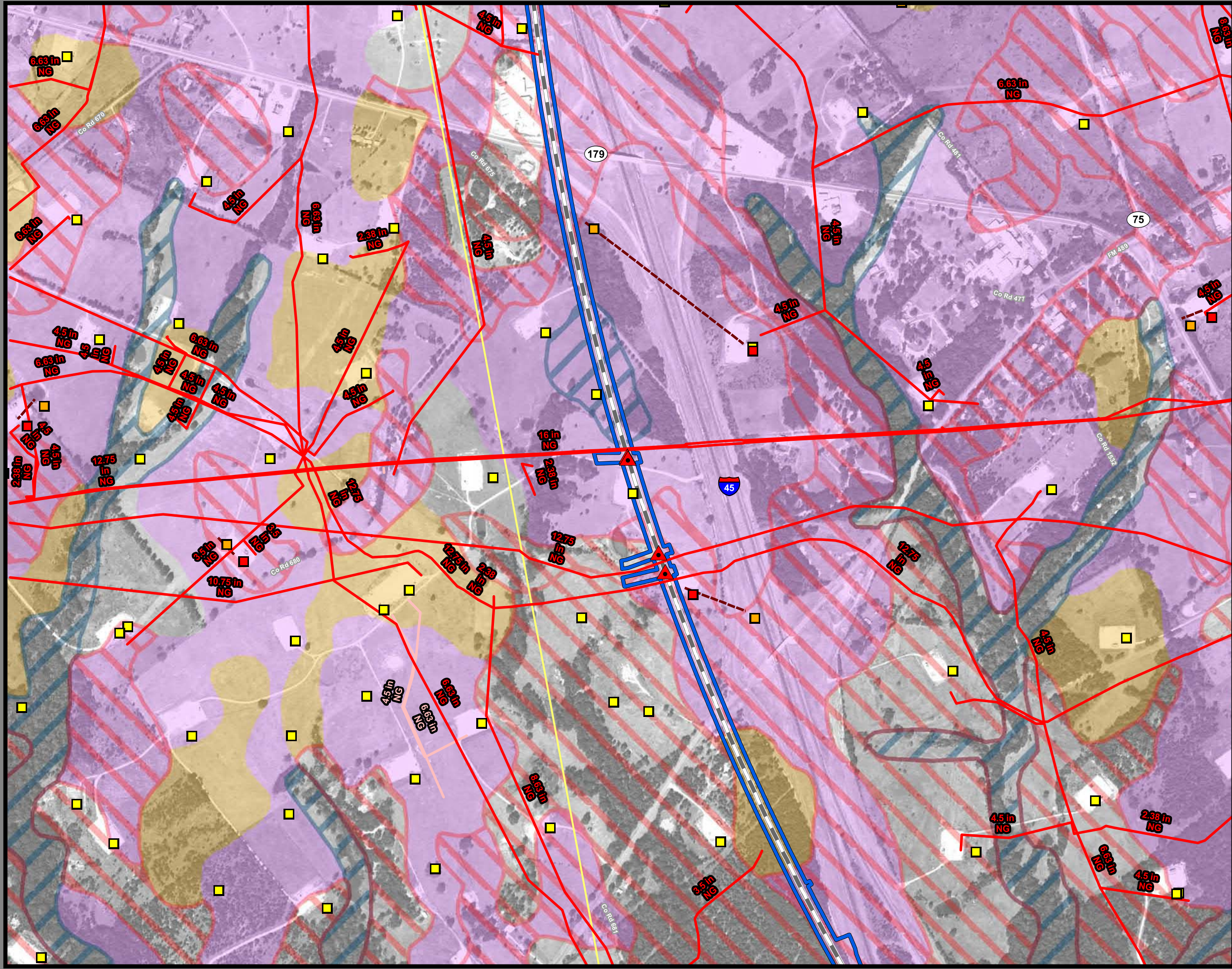
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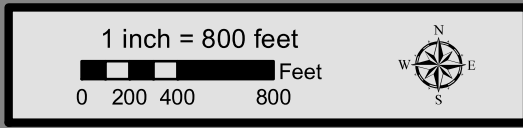
**Dallas to Houston
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Segment 3C
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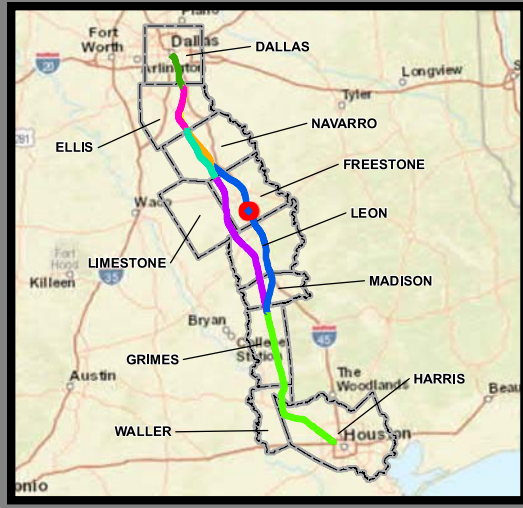
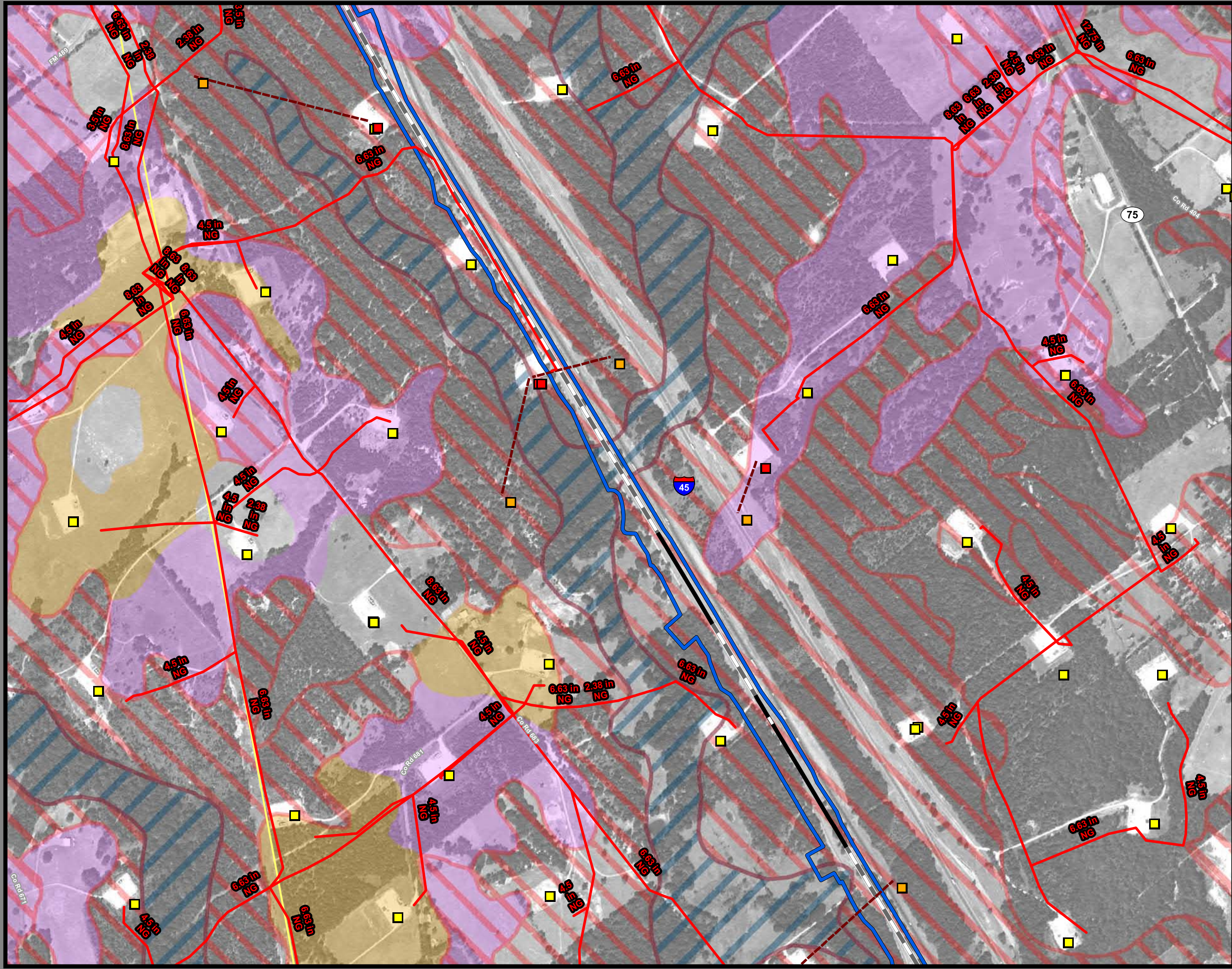
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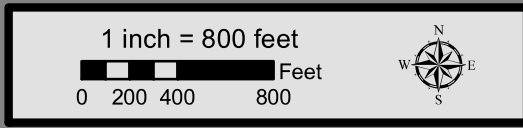
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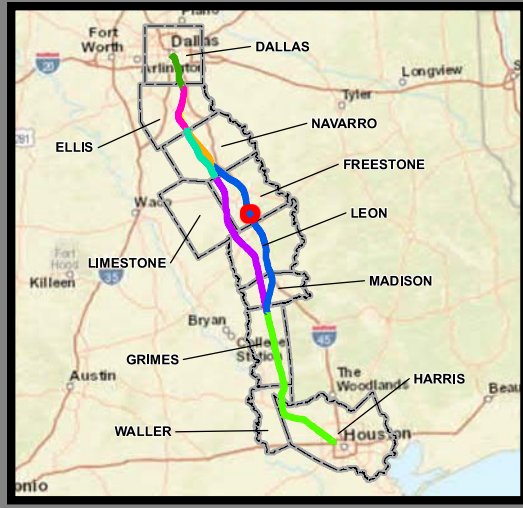
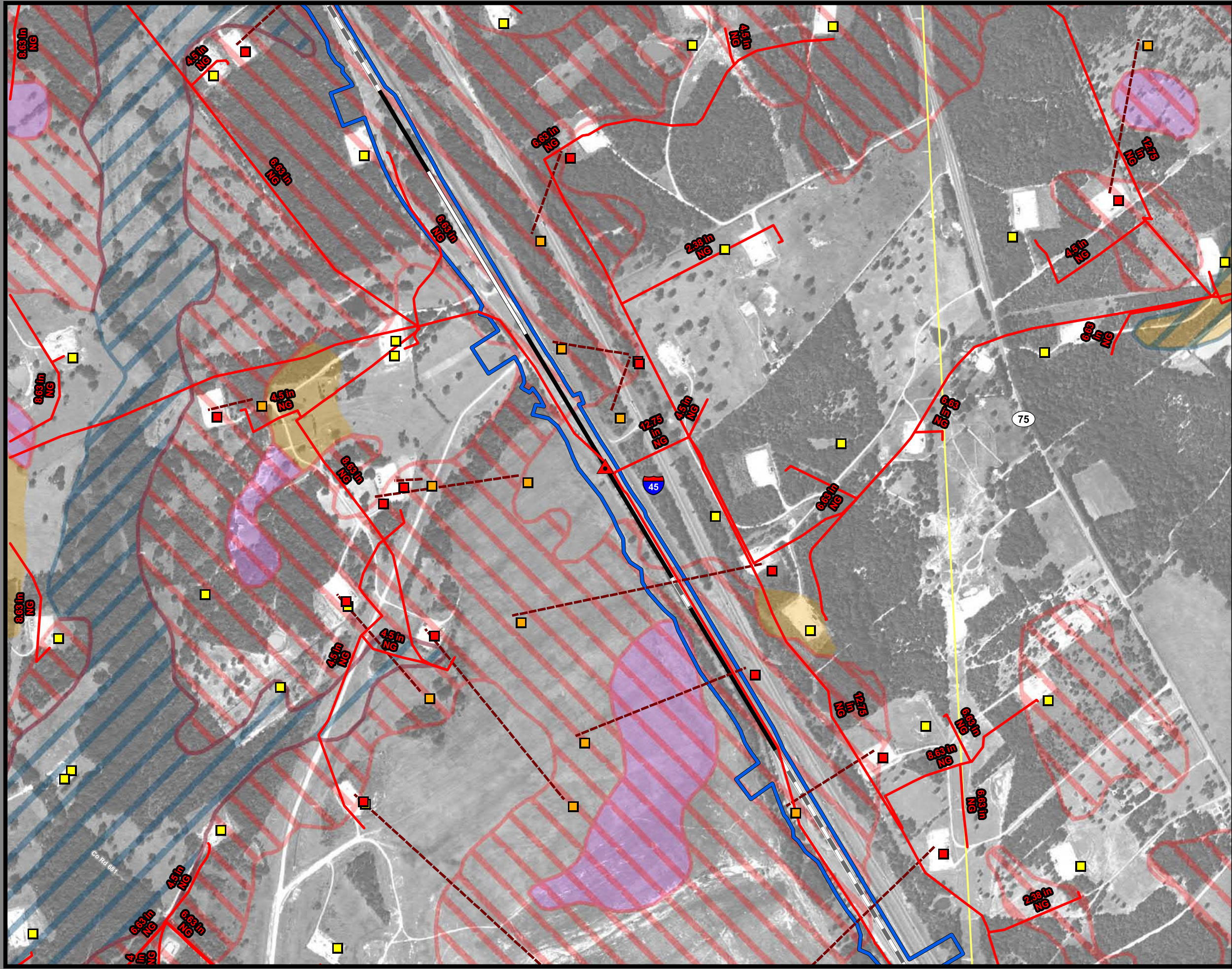
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Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





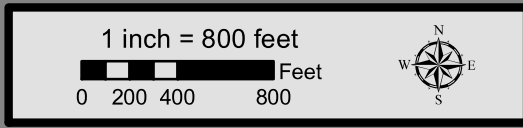
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Mineral and Utility Resources
Segment 3C
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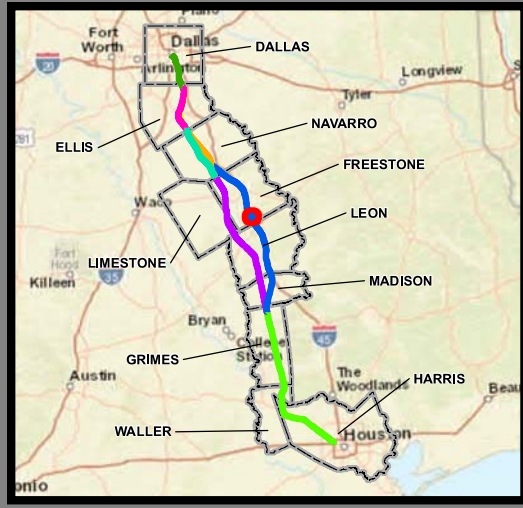
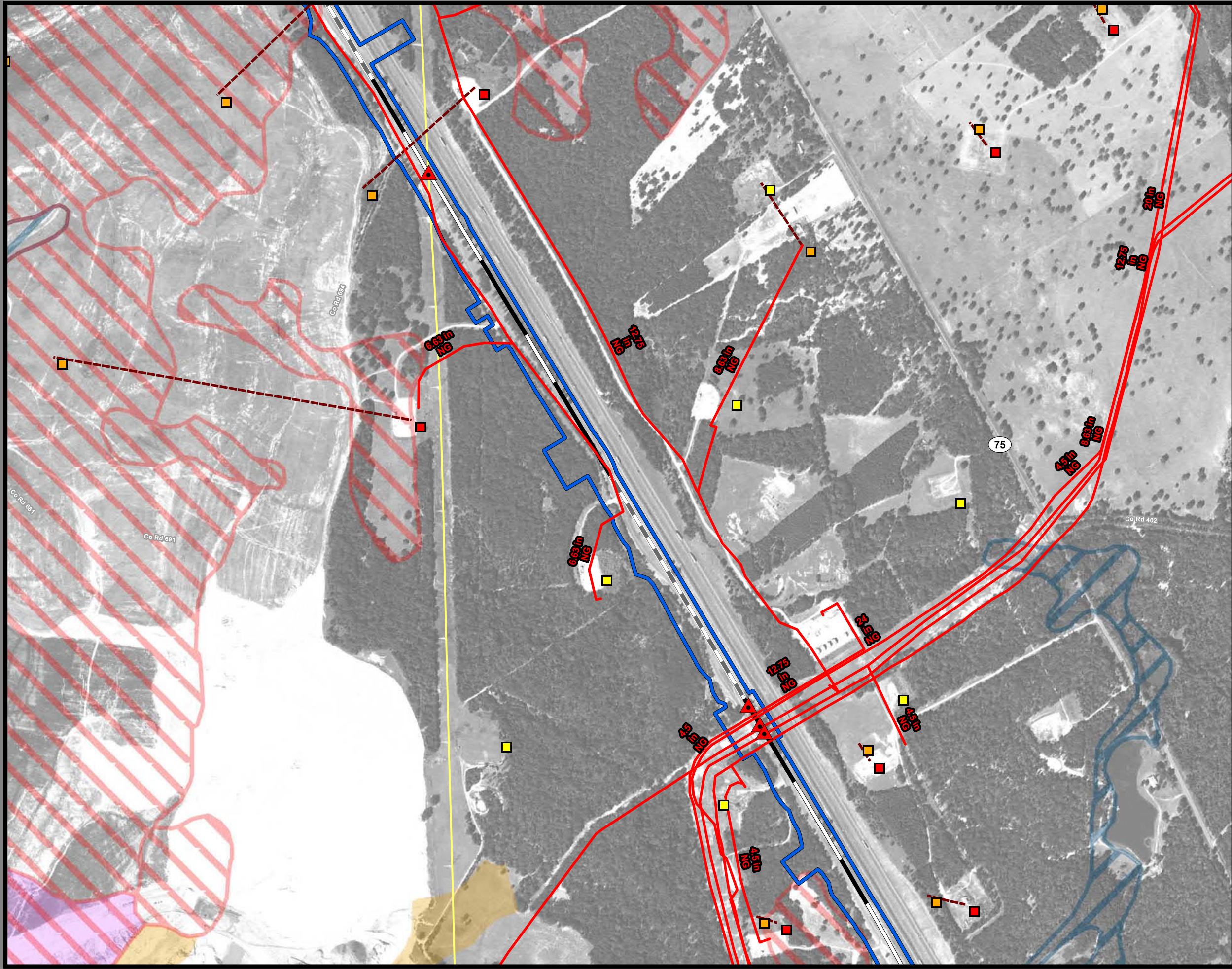
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well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

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 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

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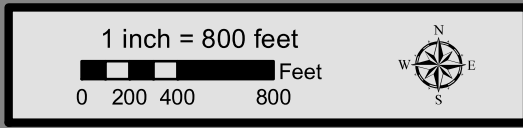
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Mineral and Utility Resources
Segment 3C
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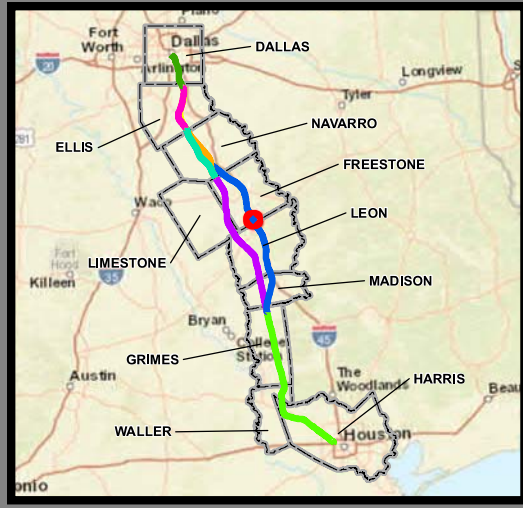
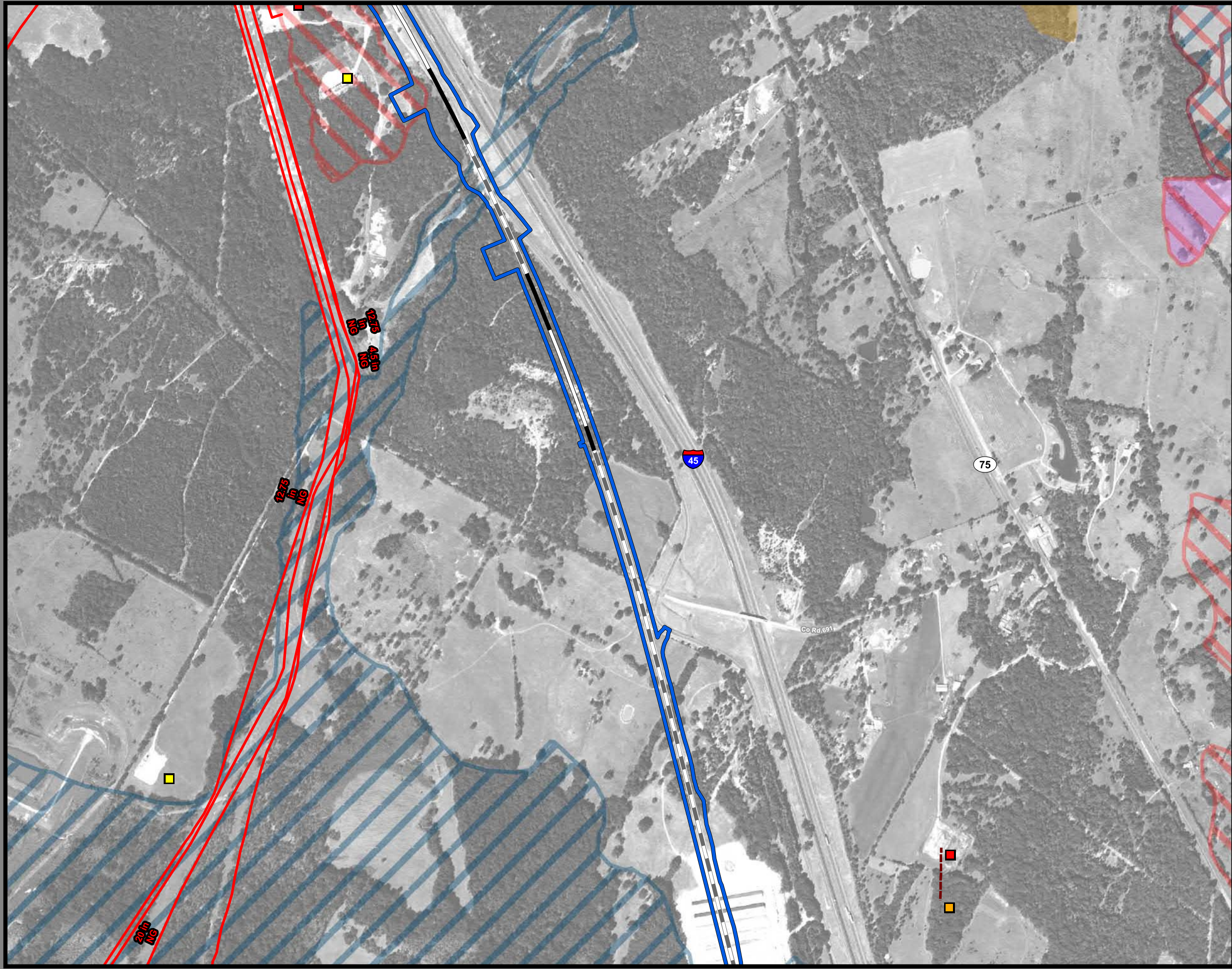
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
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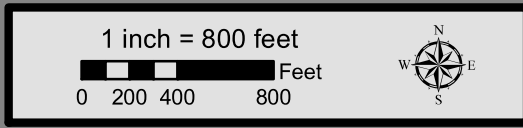
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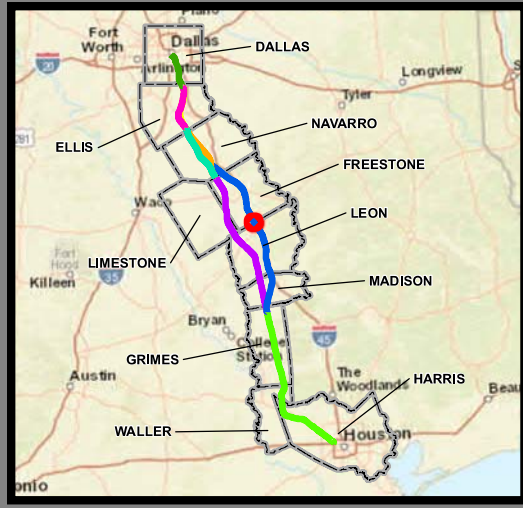
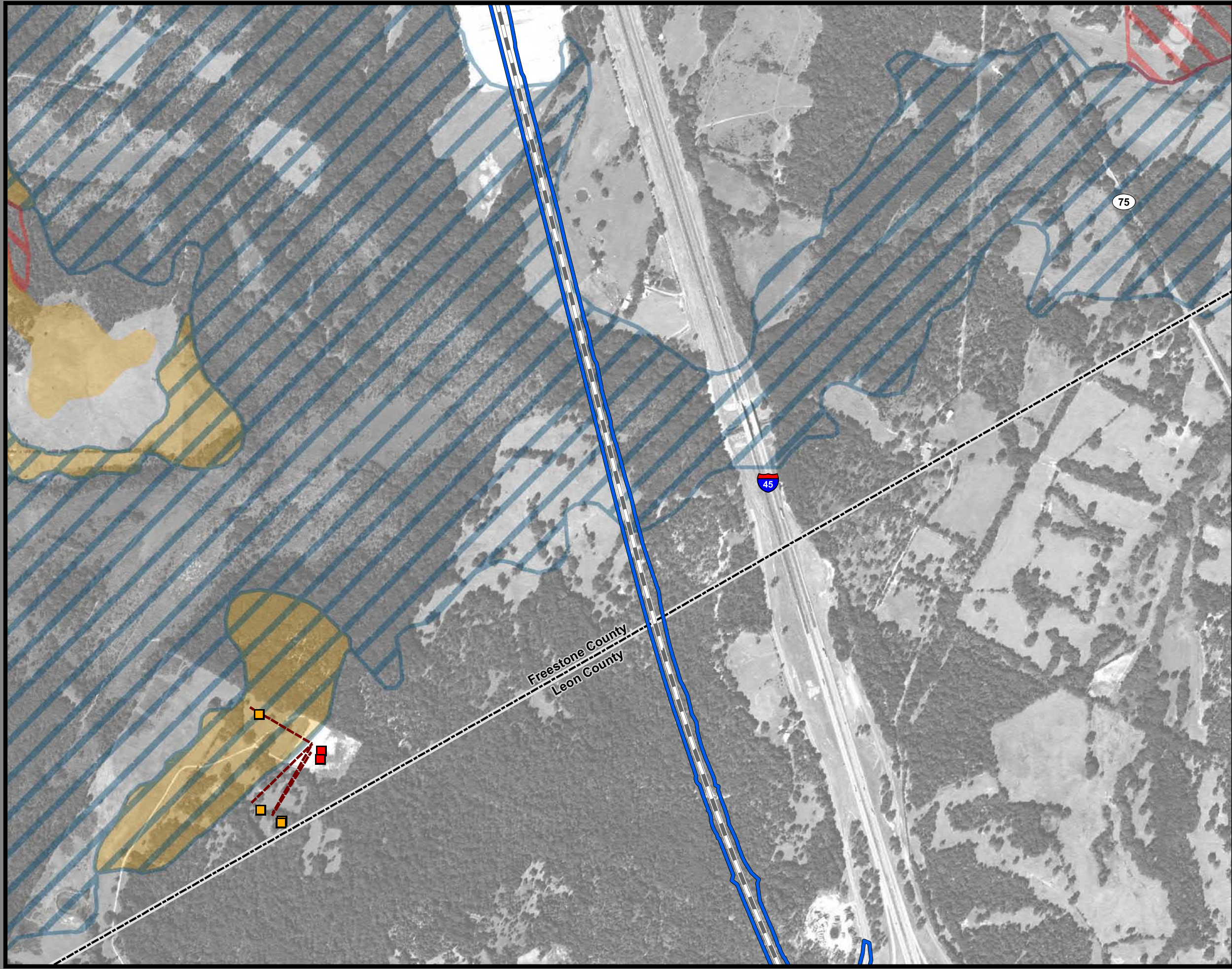
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Limits of Disturbance	Utilities
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Aerial Imagery: USDA NAIP 2014





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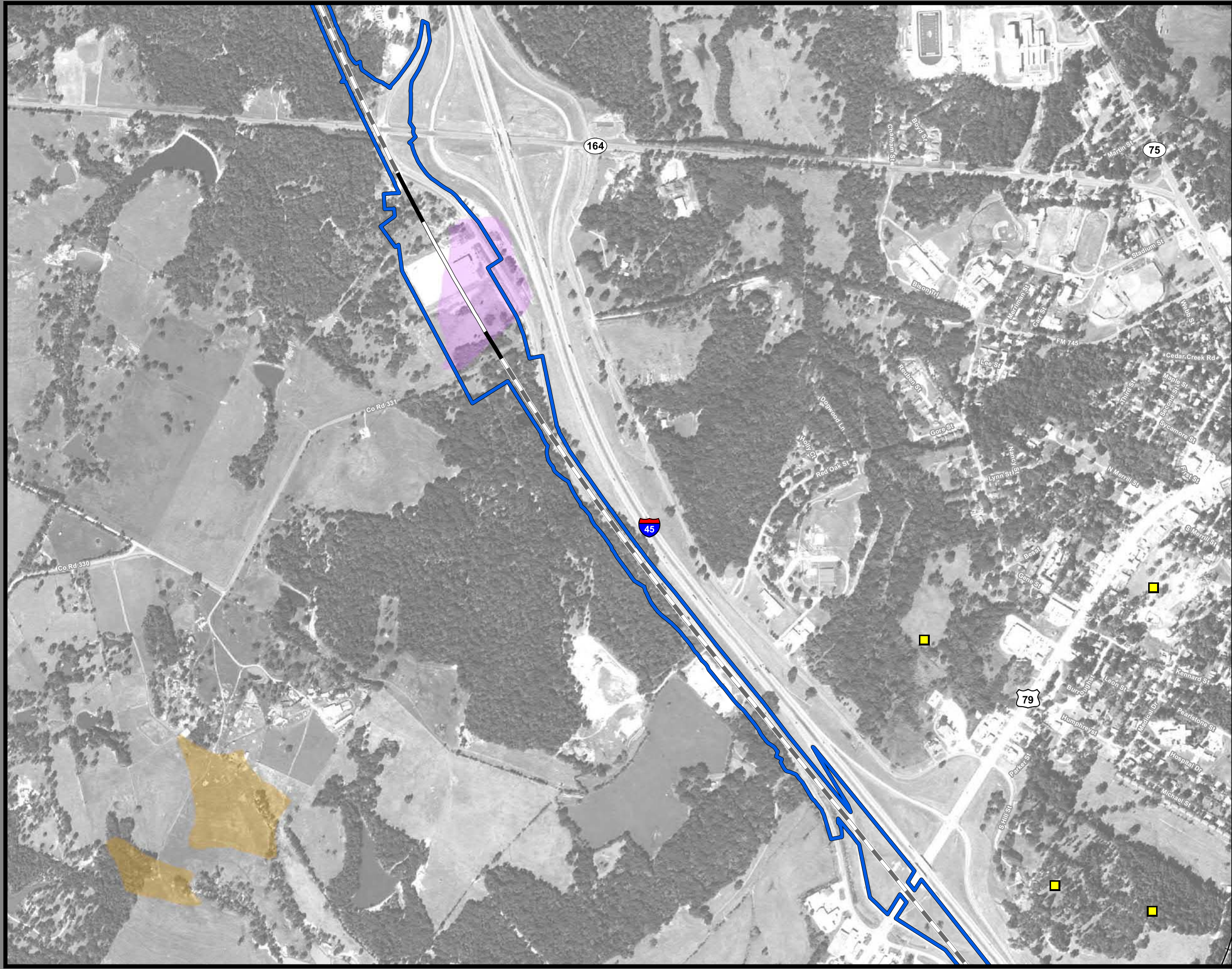
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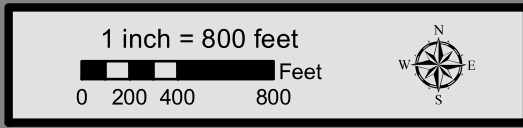
**Dallas to Houston
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Mineral and Utility Resources
Segment 3C
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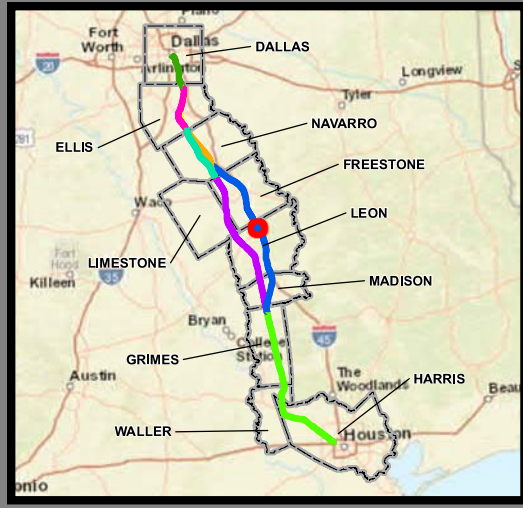
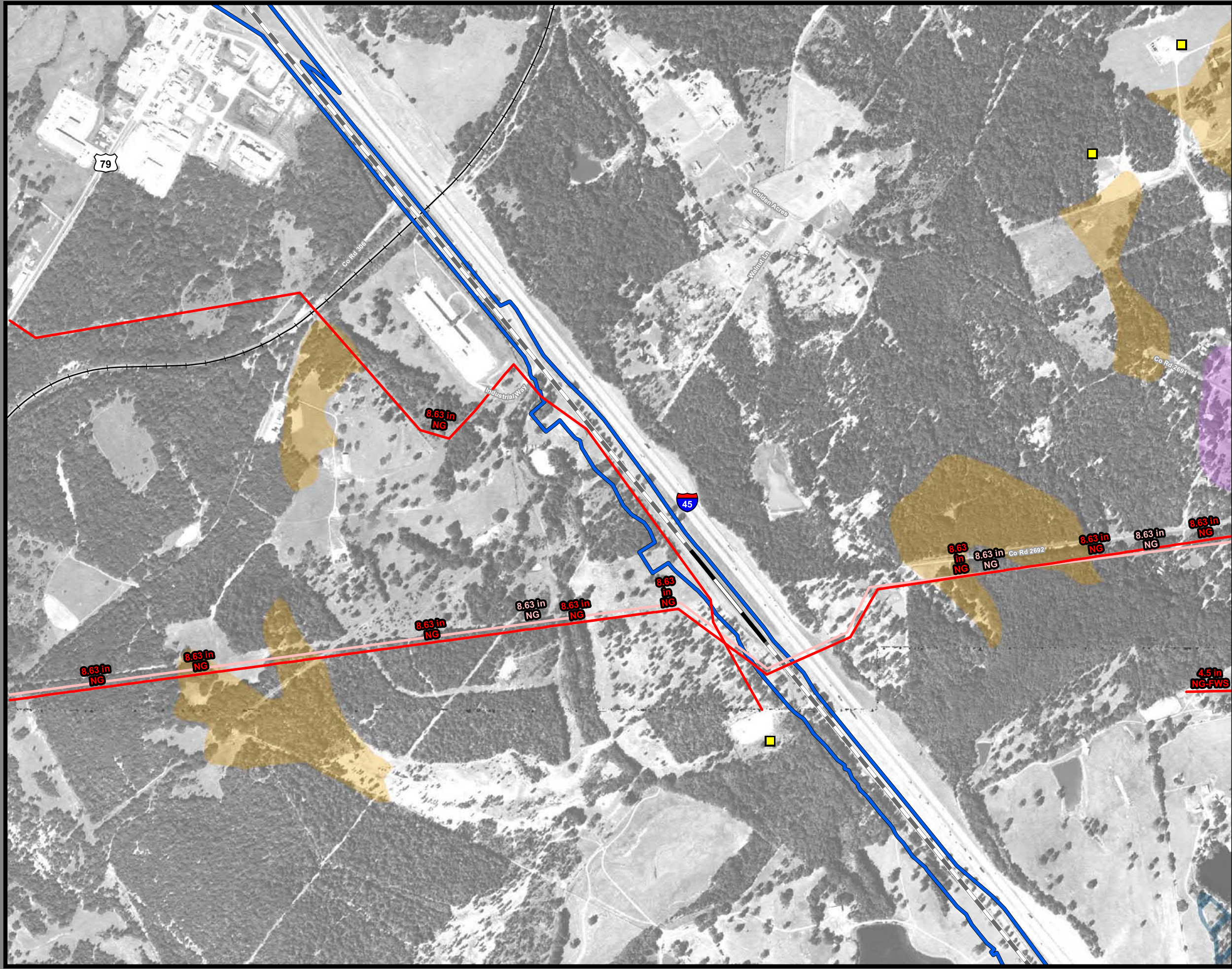
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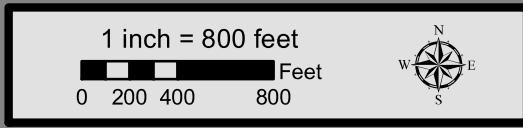
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Segment 3C
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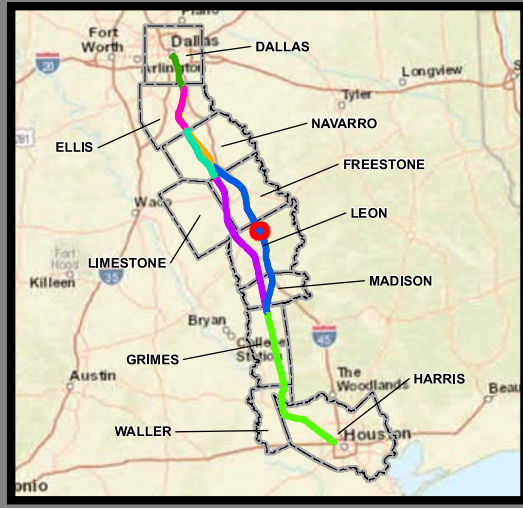
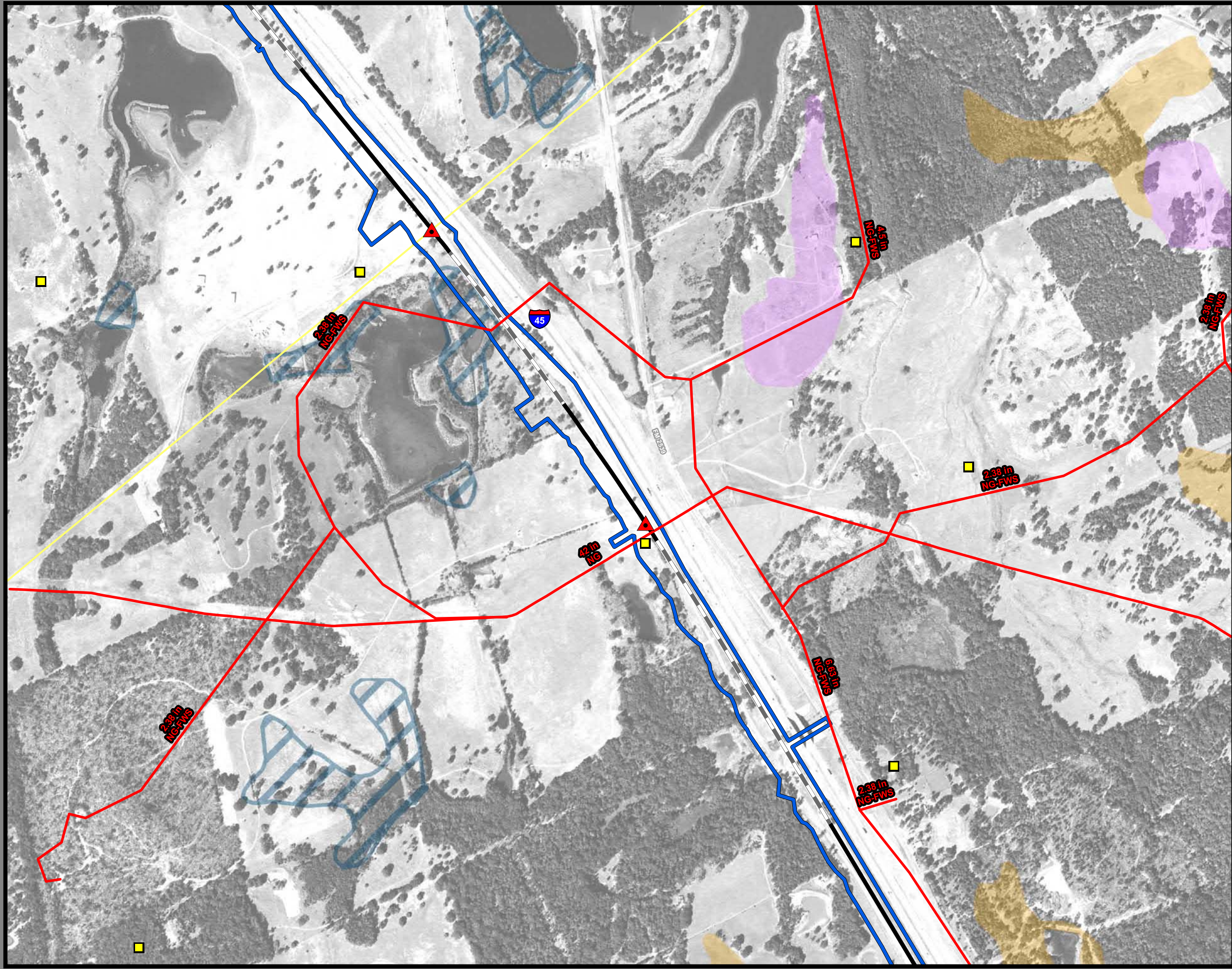
Legend

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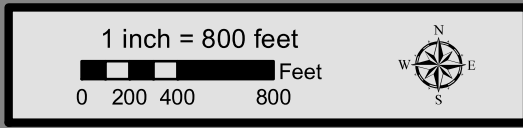
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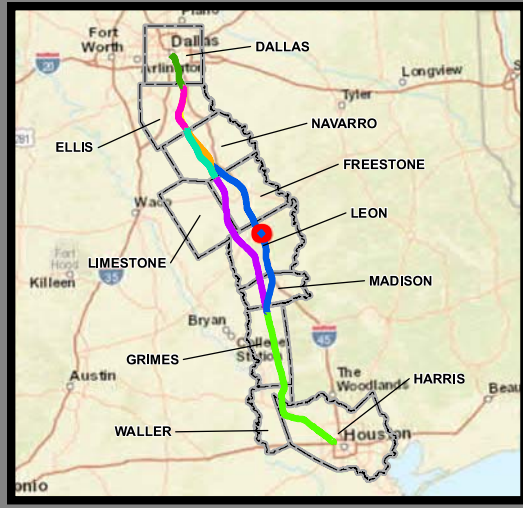
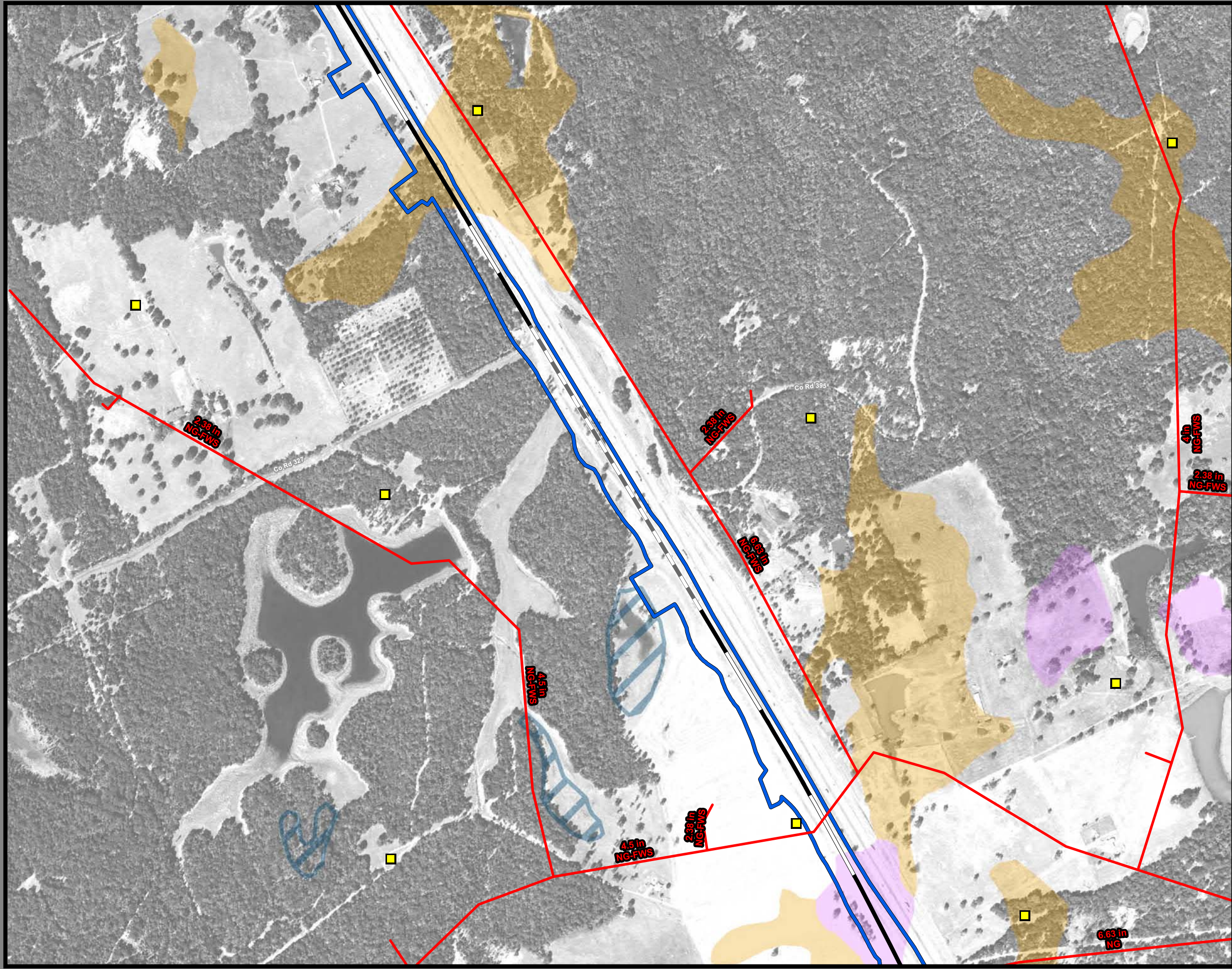
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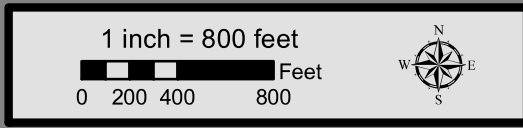
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Segment 3C
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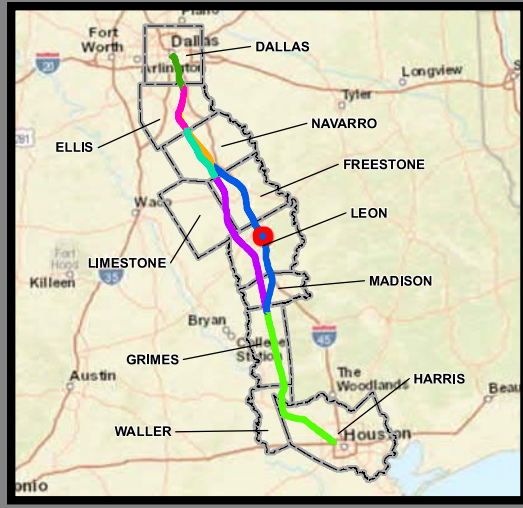
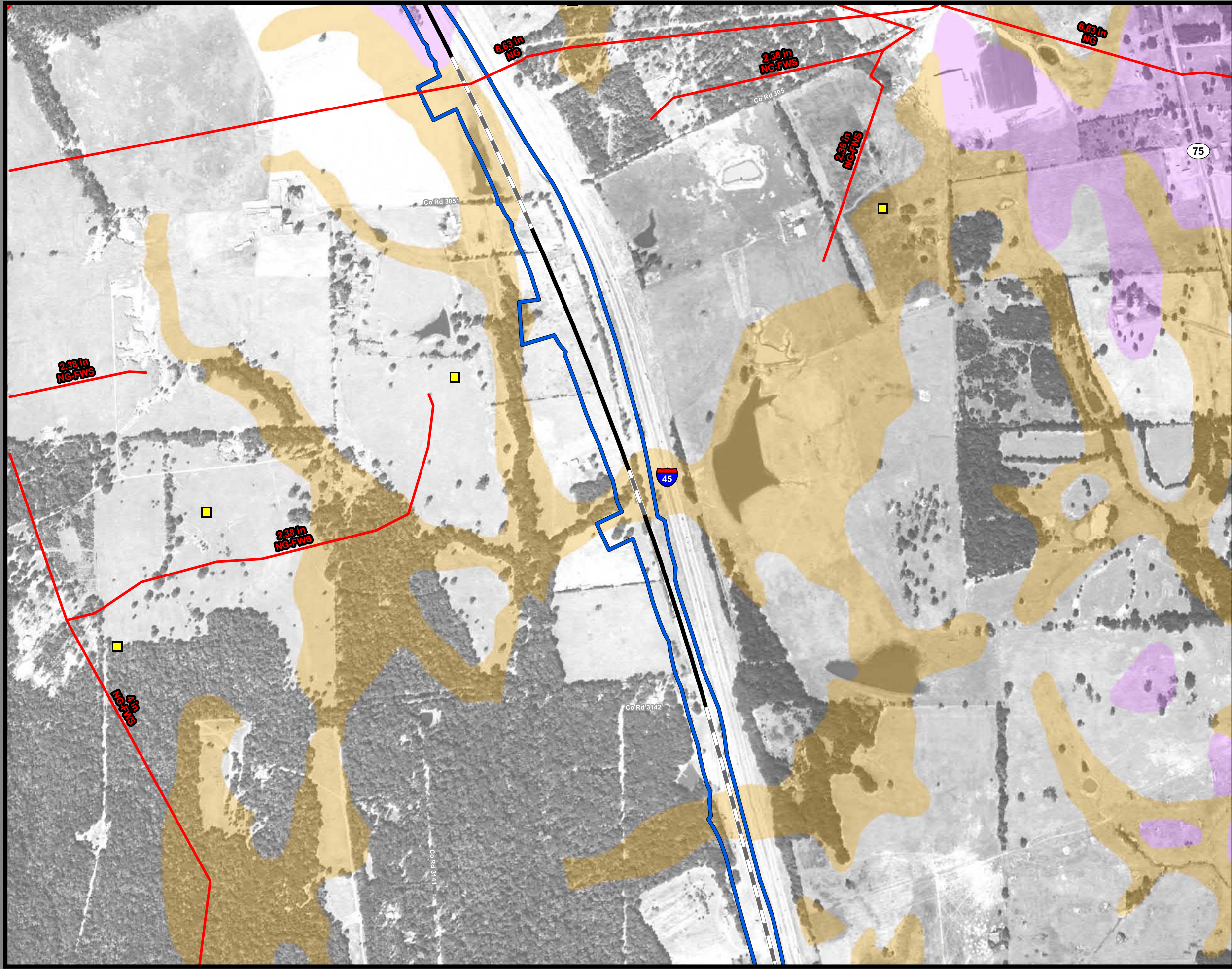
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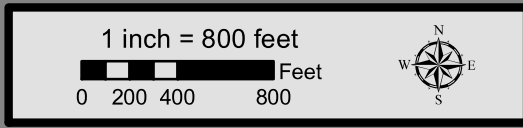
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Segment 3C
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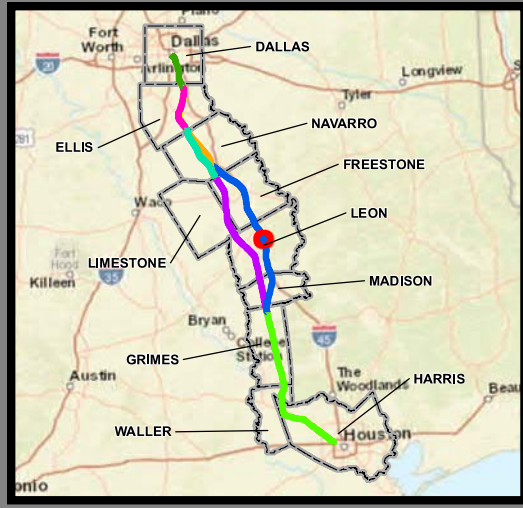
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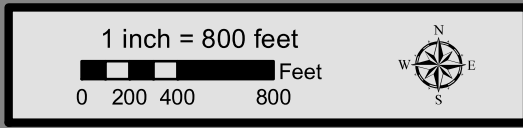
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High-Speed Rail Project
 Mineral and Utility Resources
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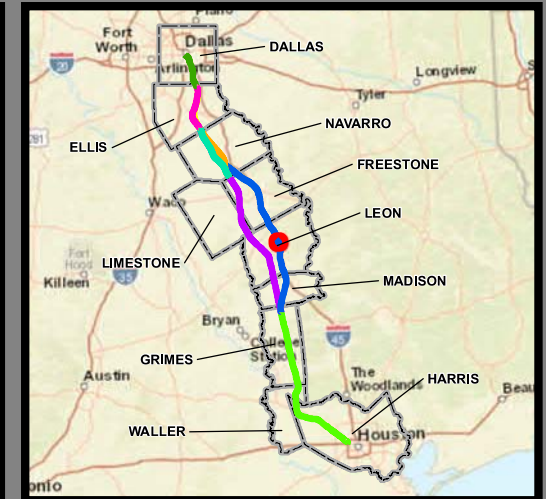
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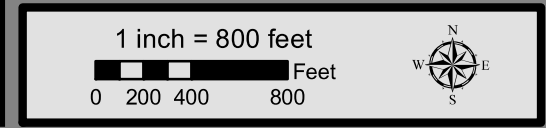
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Mineral and Utility Resources
Segment 3C
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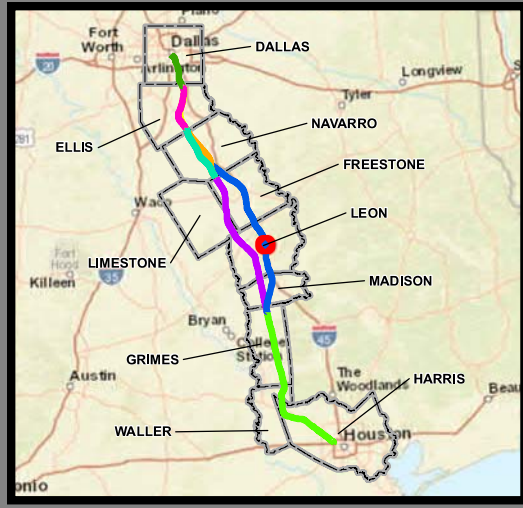
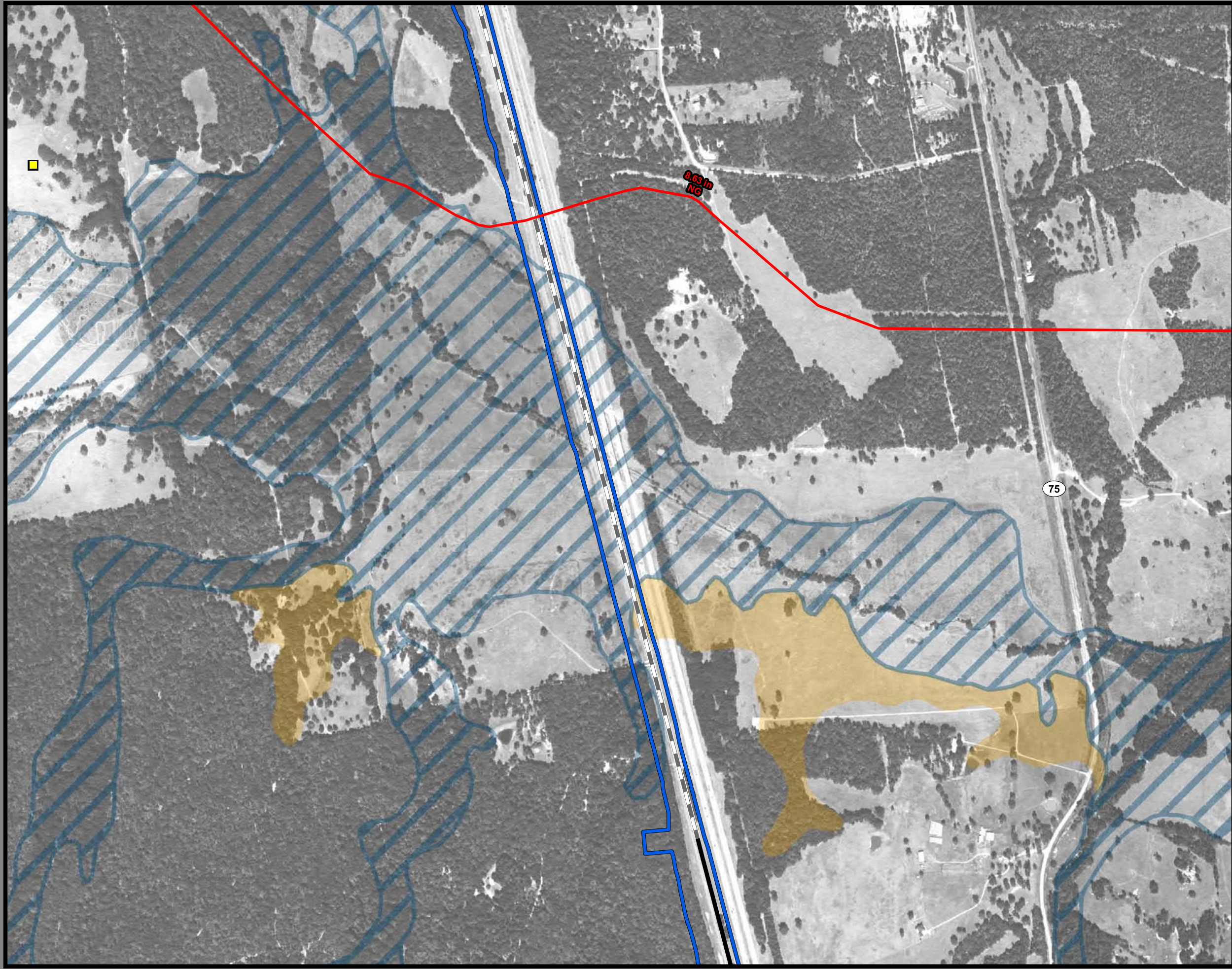
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Mineral and Utility Resources
Segment 3C
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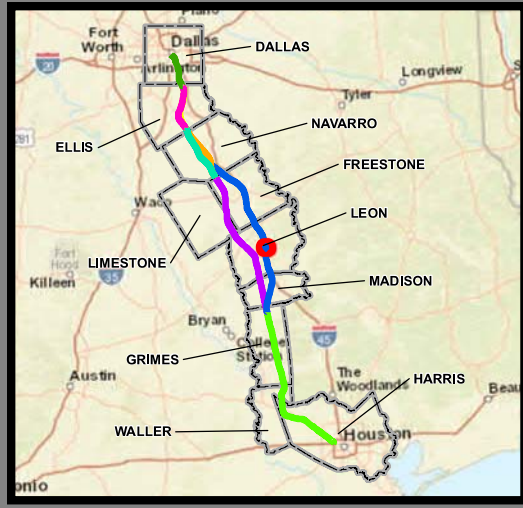
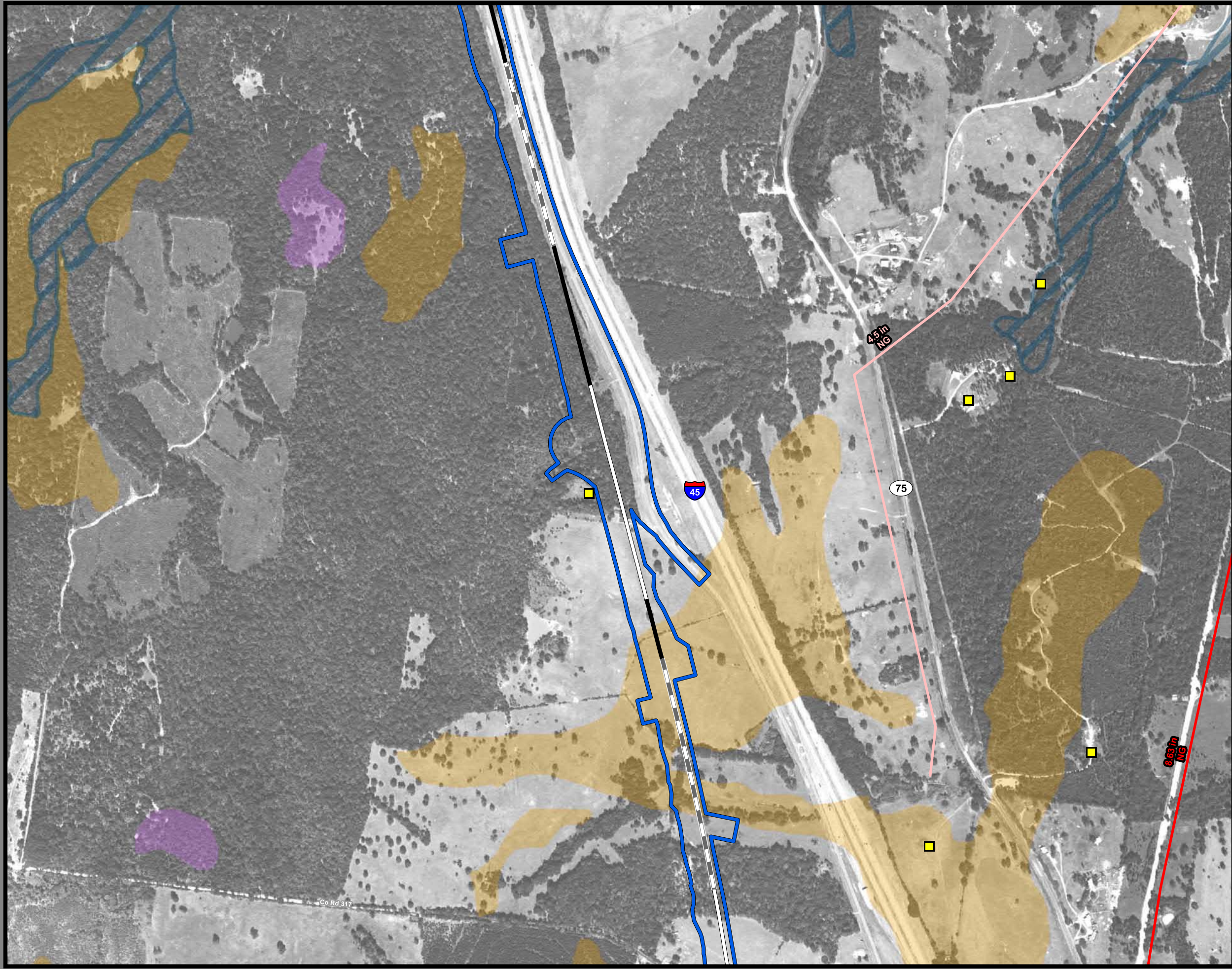
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Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





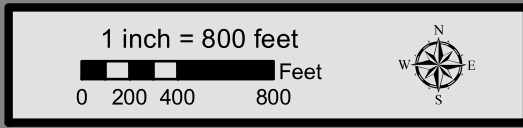
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 125 of 257**

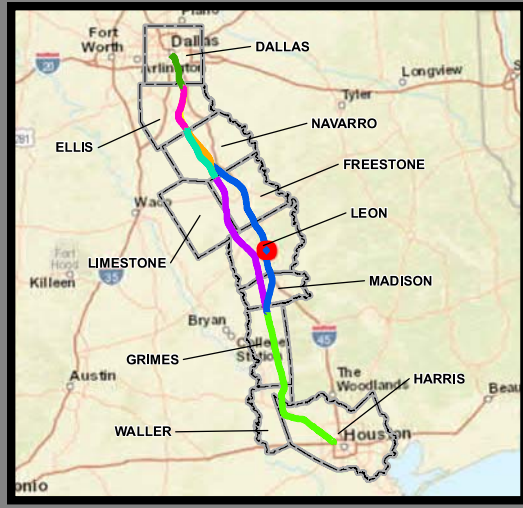
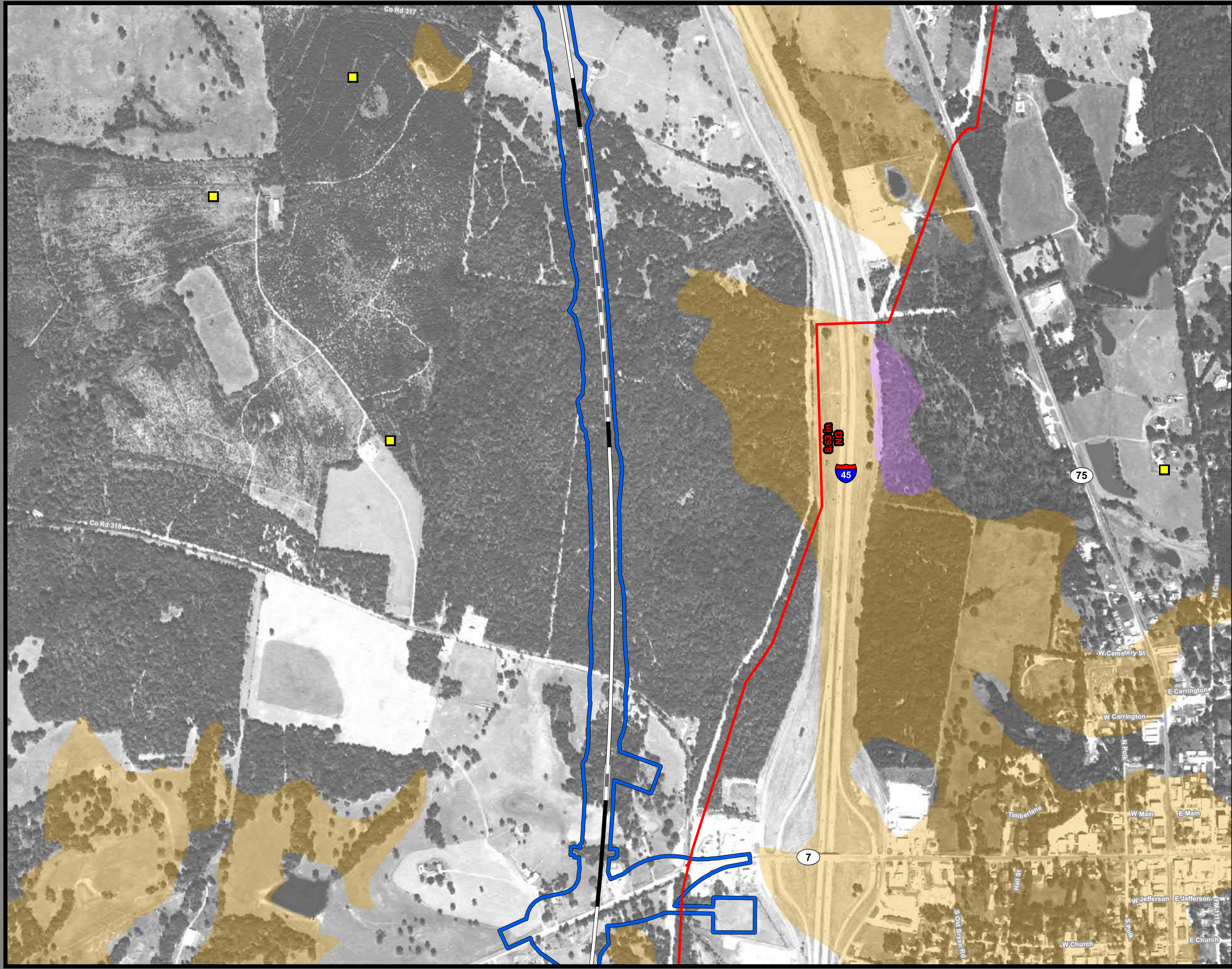
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





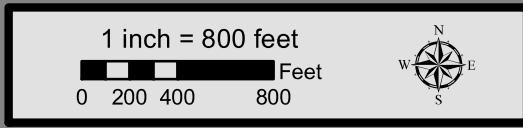
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 126 of 257**

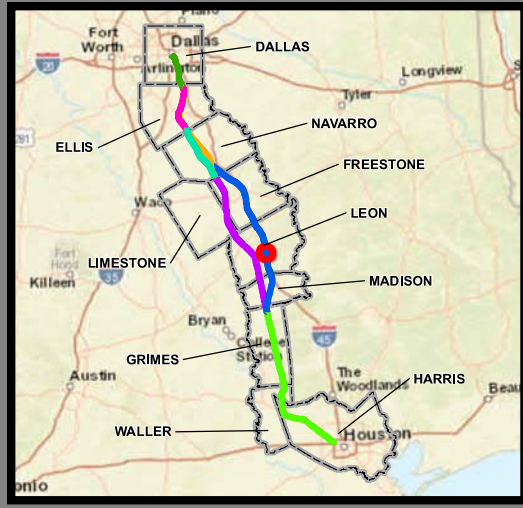
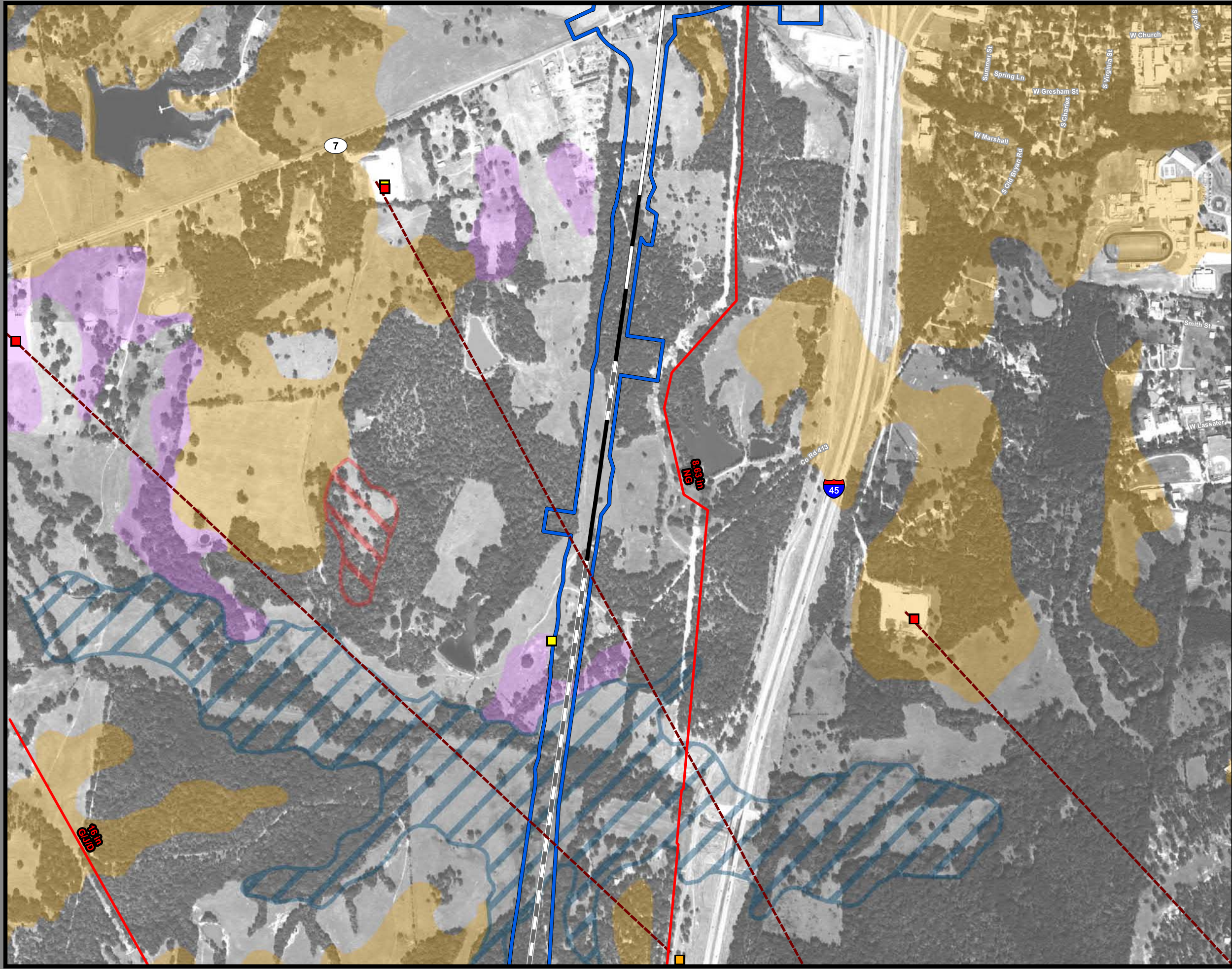
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
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Aerial Imagery: USDA NAIP 2014





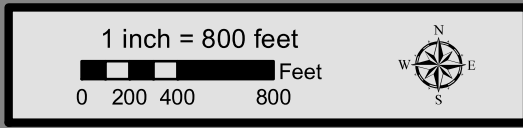
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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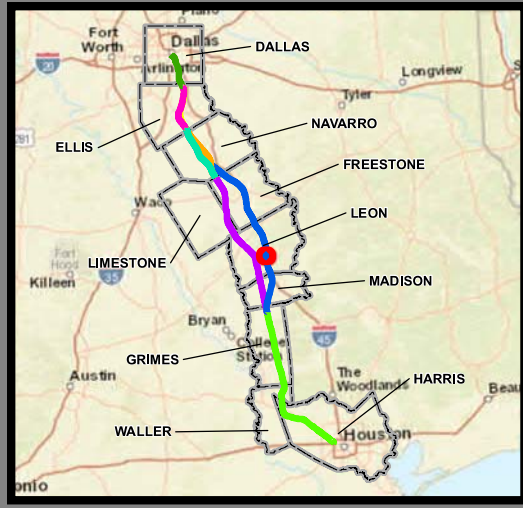
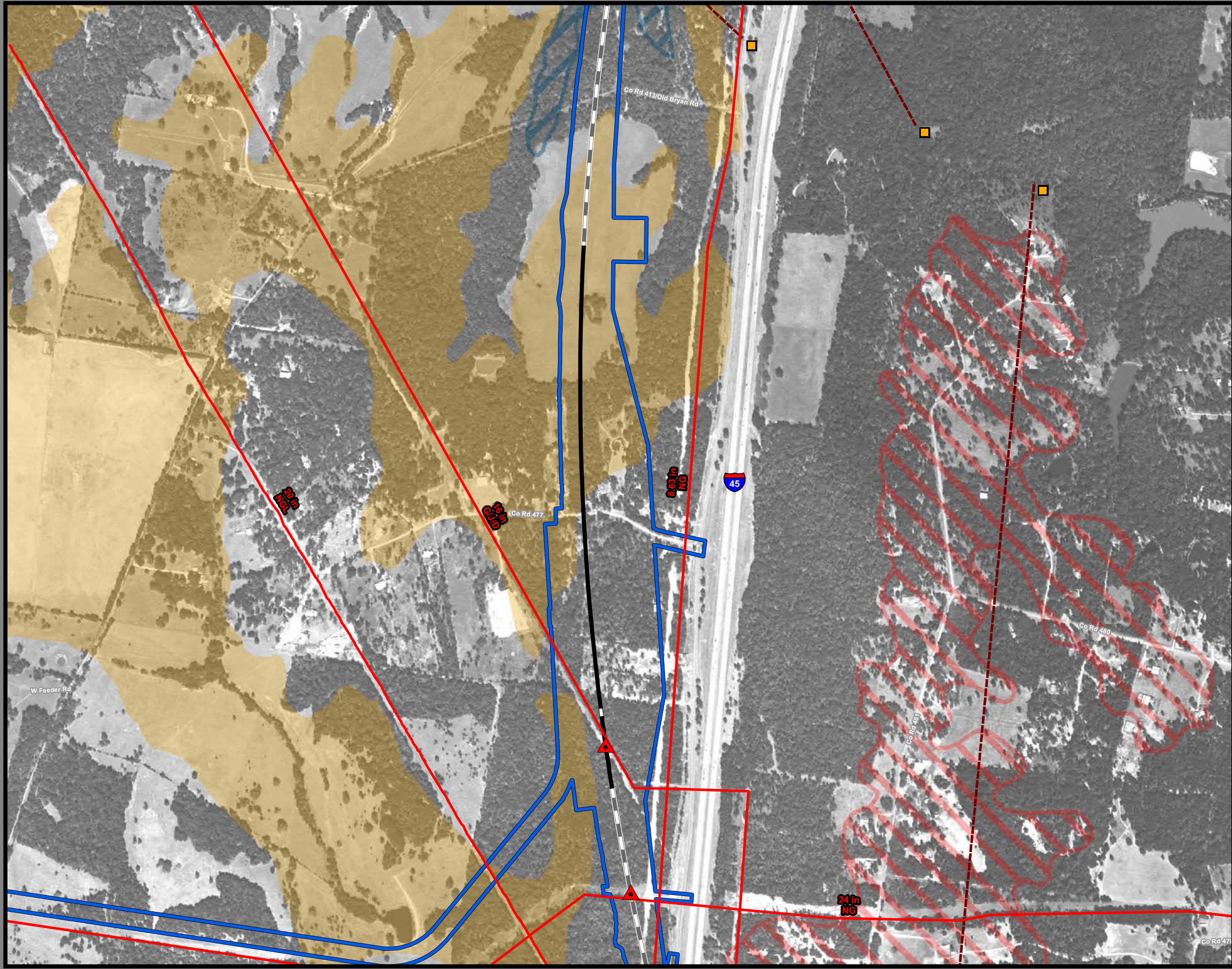
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
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	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2014





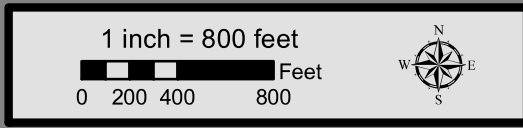
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 128 of 257**

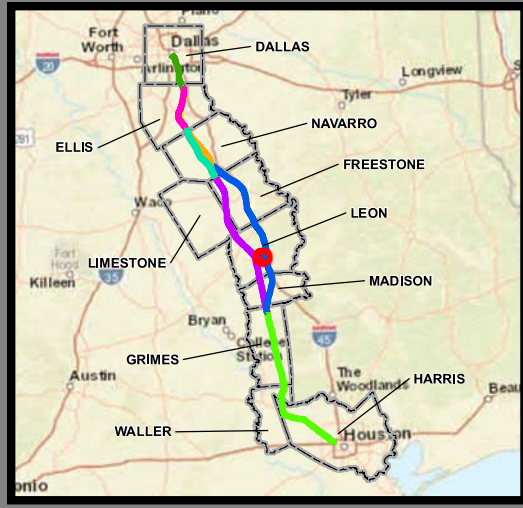
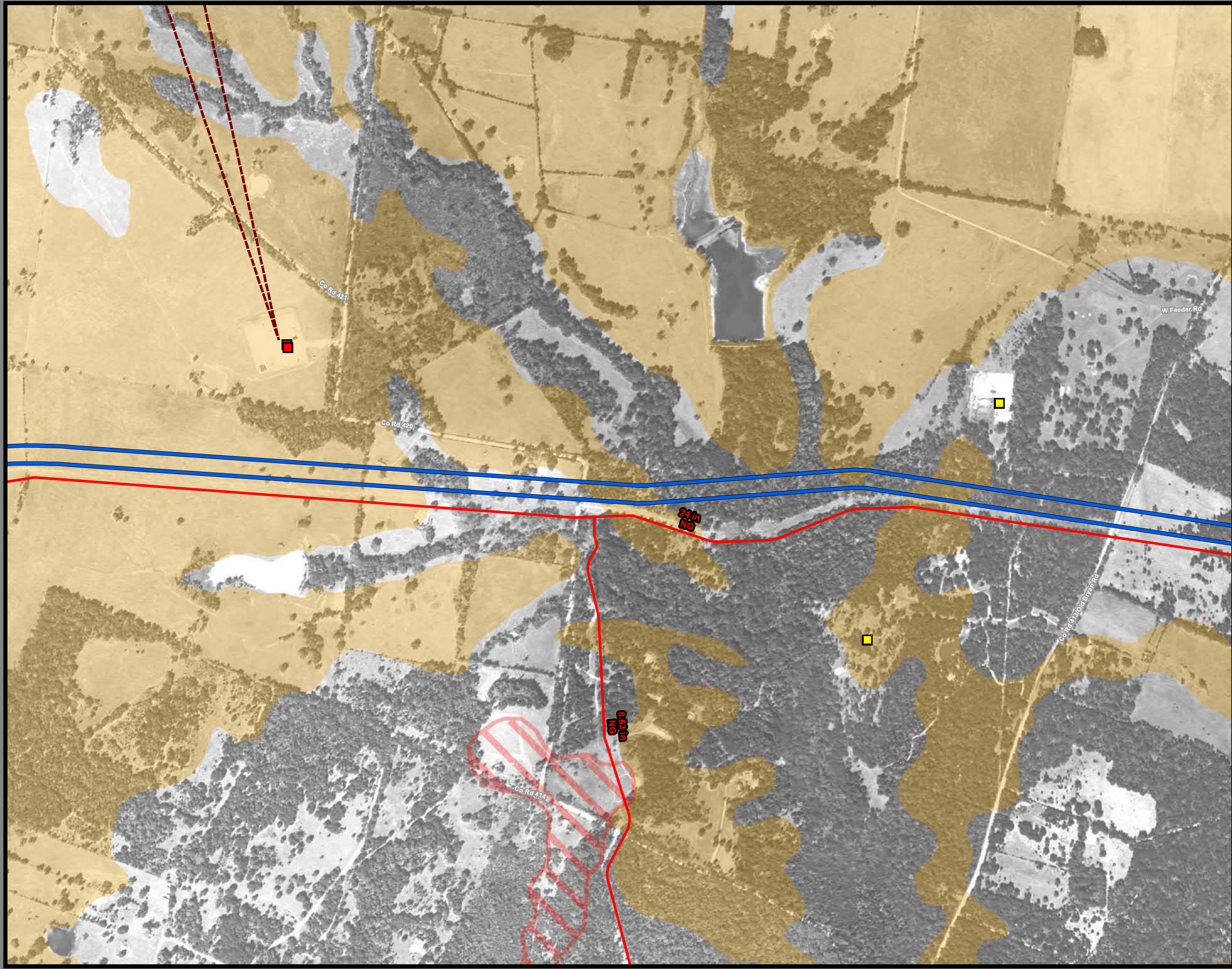
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
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	Farmland of Statewide Importance
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Aerial Imagery: USDA NAIP 2014





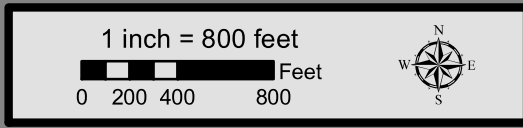
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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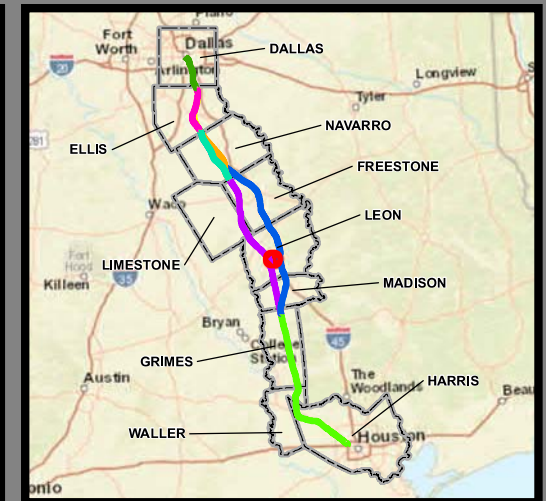
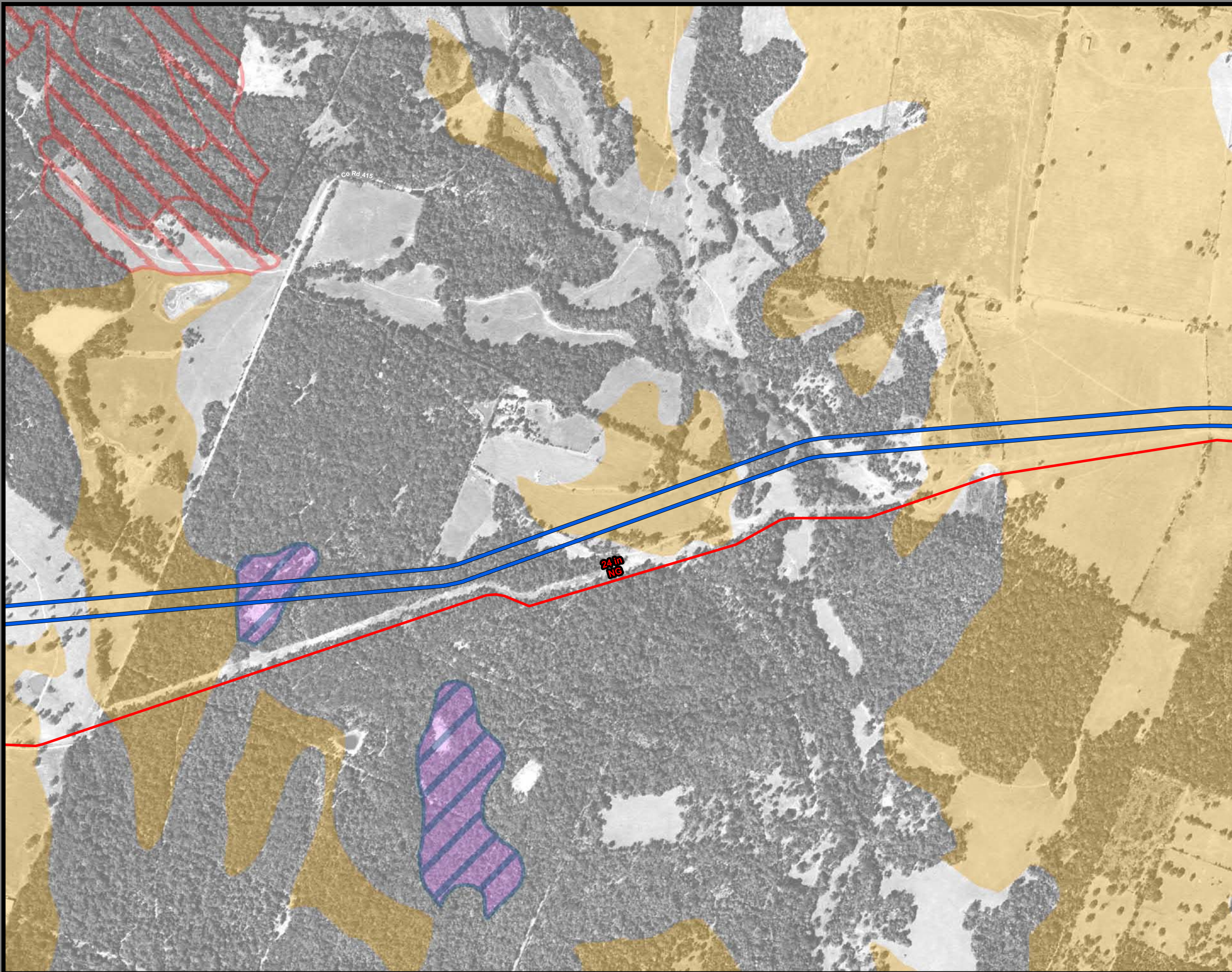
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
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	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2014





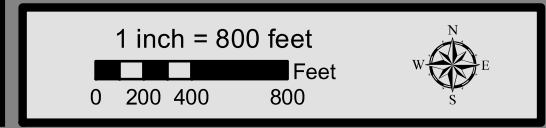
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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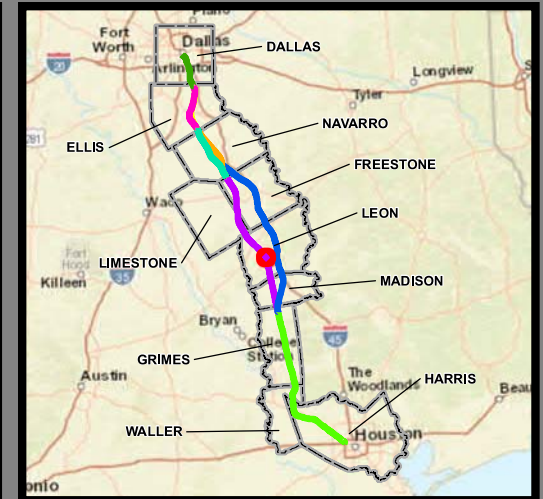
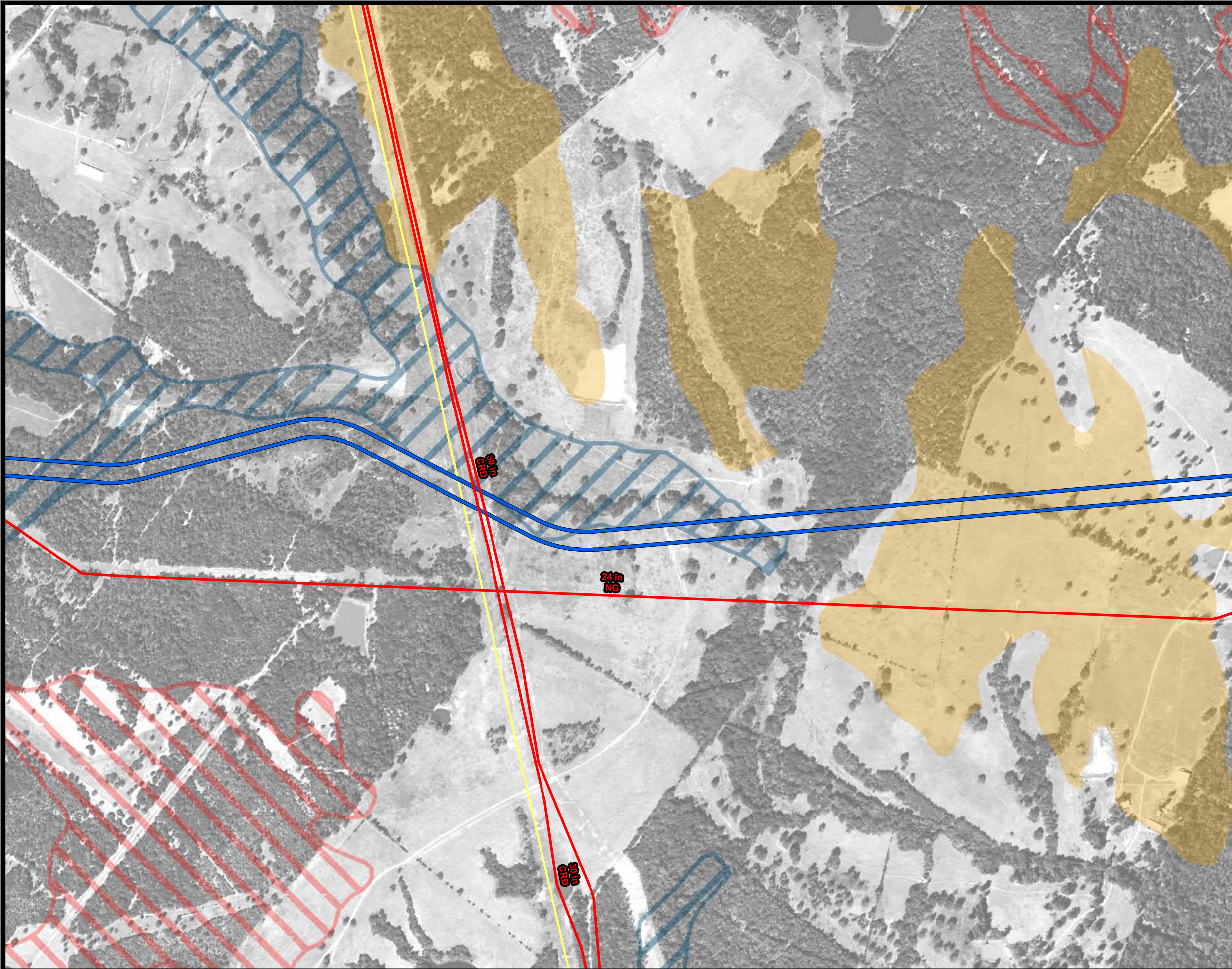
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
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	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2014





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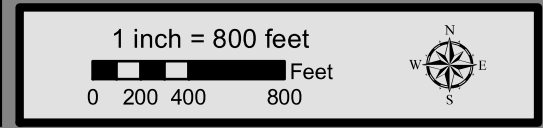
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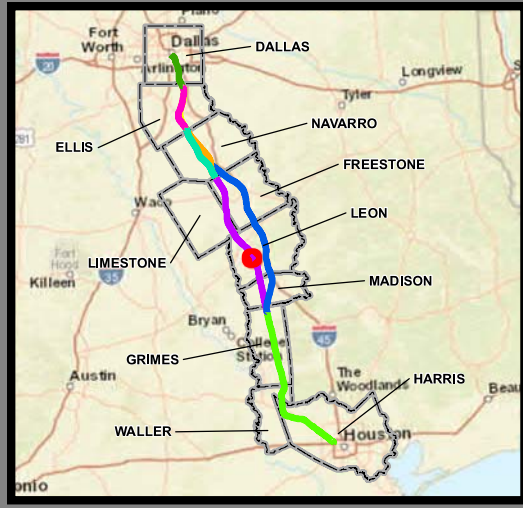
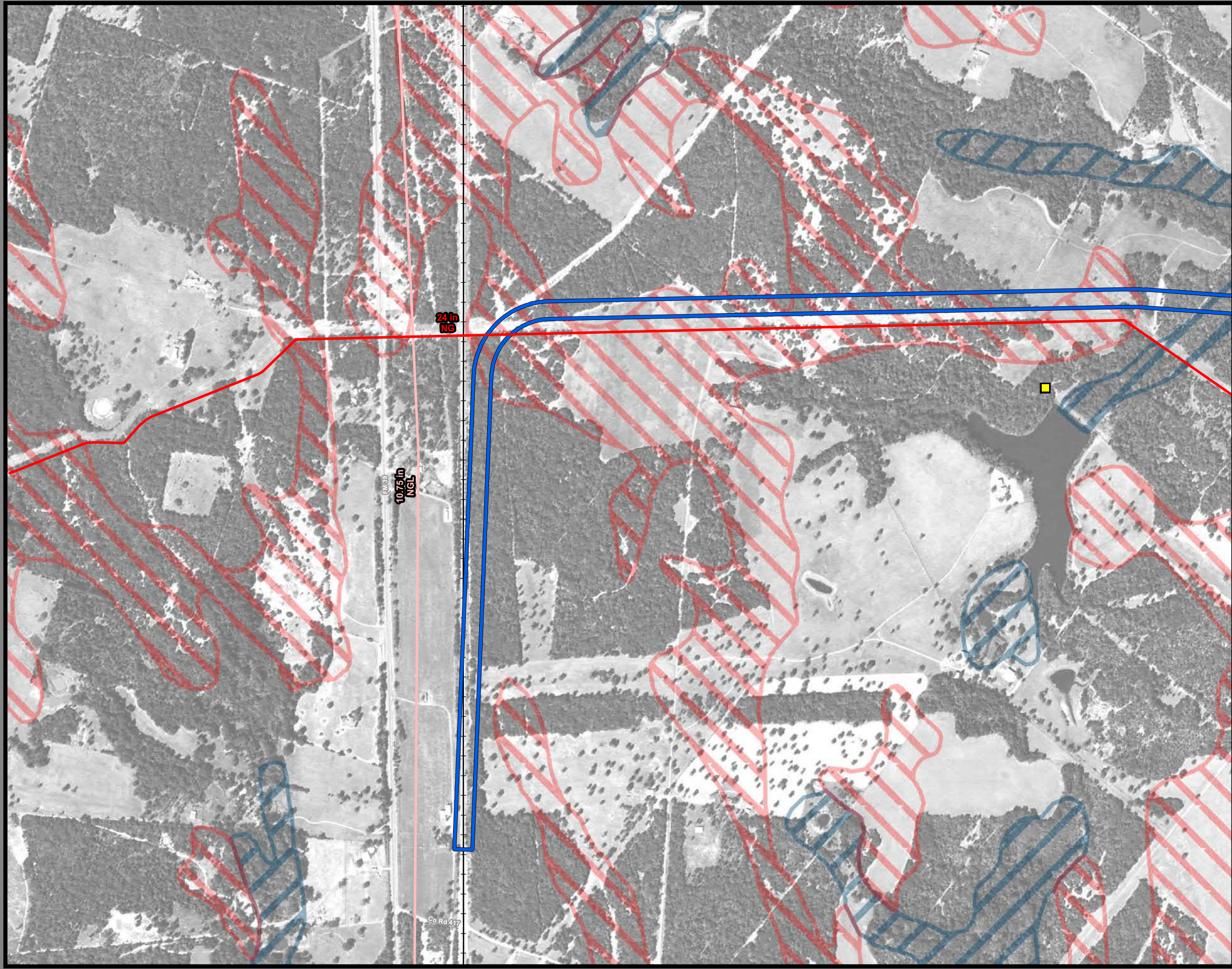
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
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	Directional Well Lines
Track Configuration	Oil/Gas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

This Sheet only depicts Segment 3C; Segment 4 is also located in this same area and can be referenced on Sheet 182.

Abbreviated Pipeline Labels:
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Mineral and Utility Resources
Segment 3C
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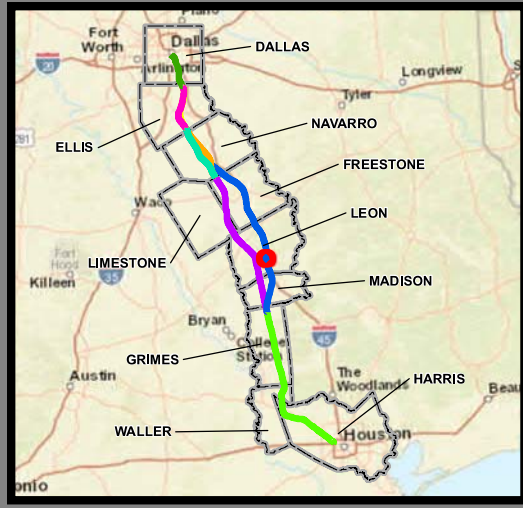
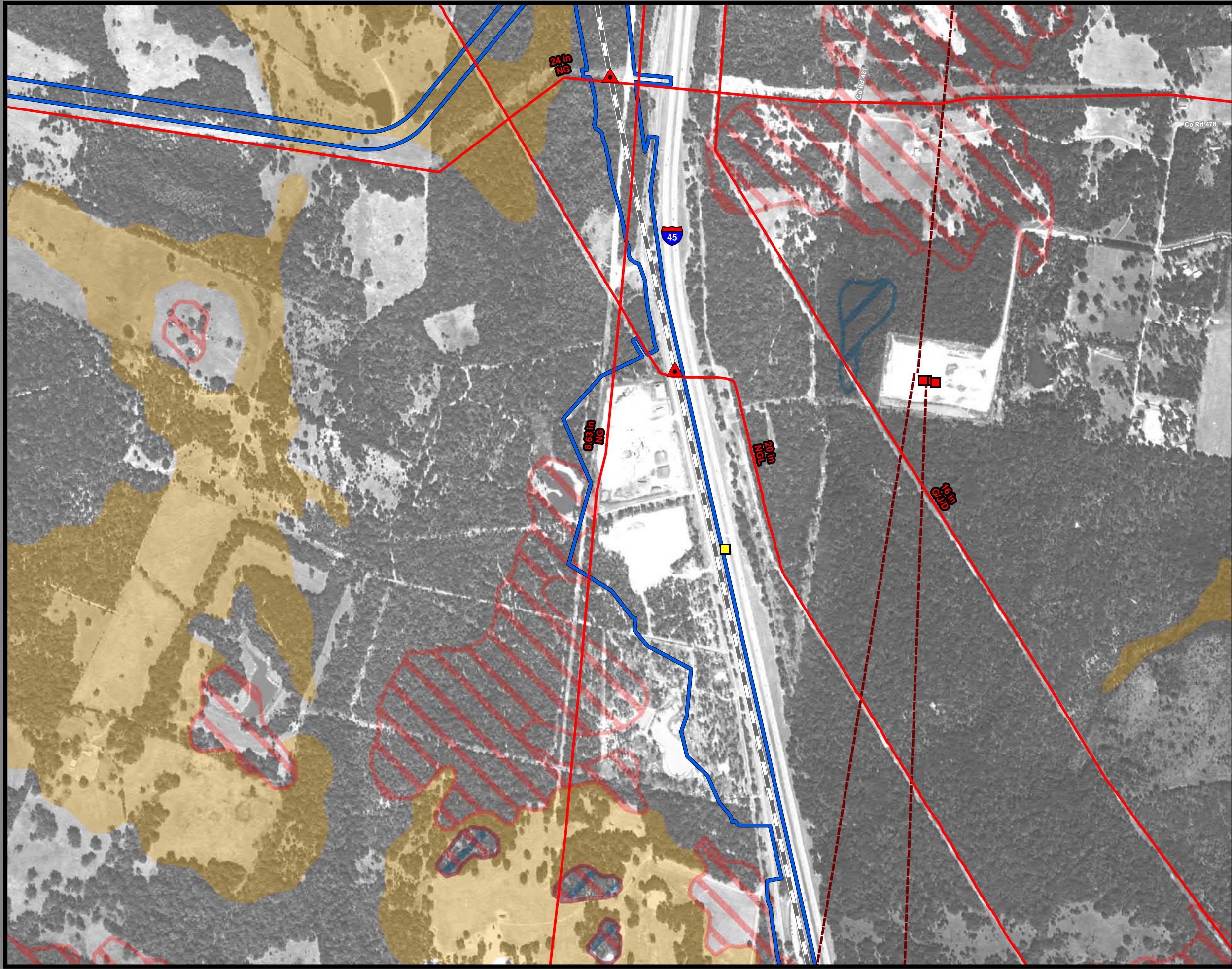
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
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Aerial Imagery: USDA NAIP 2014





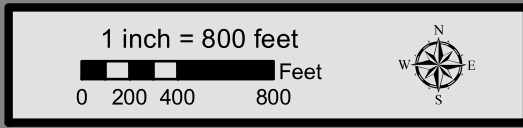
**Dallas to Houston
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Mineral and Utility Resources
Segment 3C
Sheet 133 of 257**

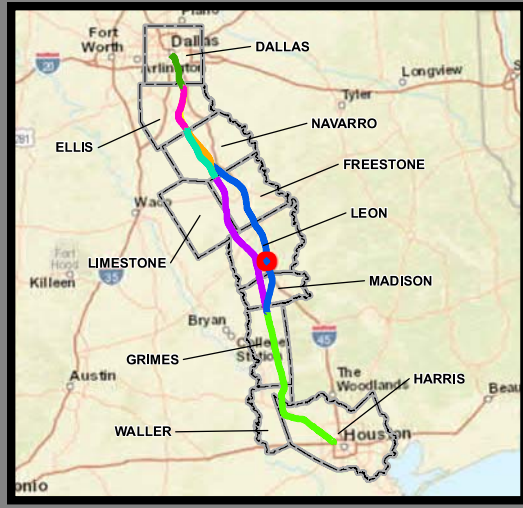
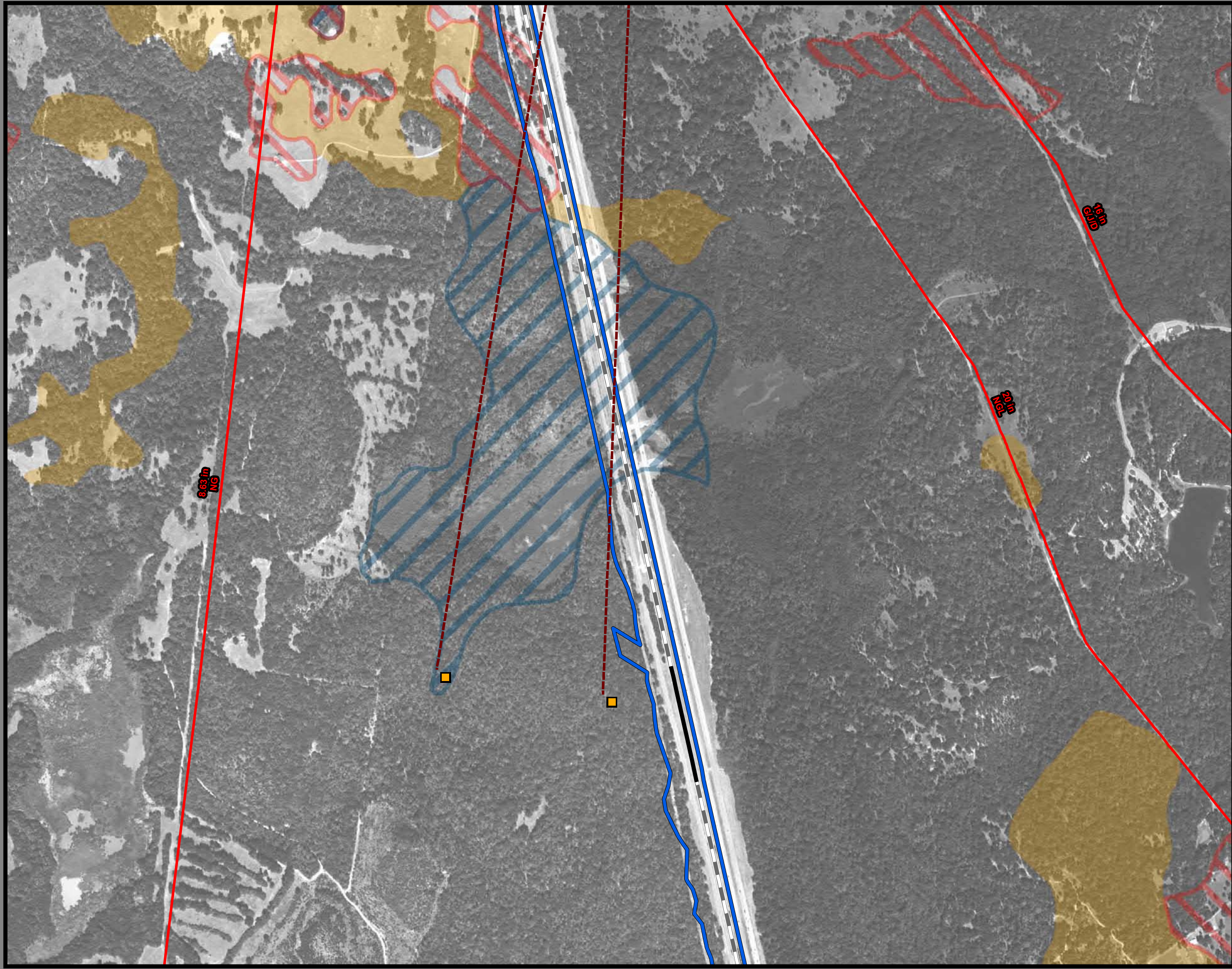
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
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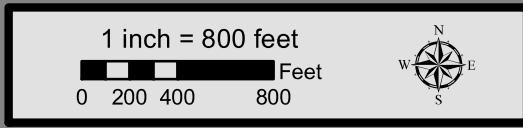
**Dallas to Houston
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Segment 3C
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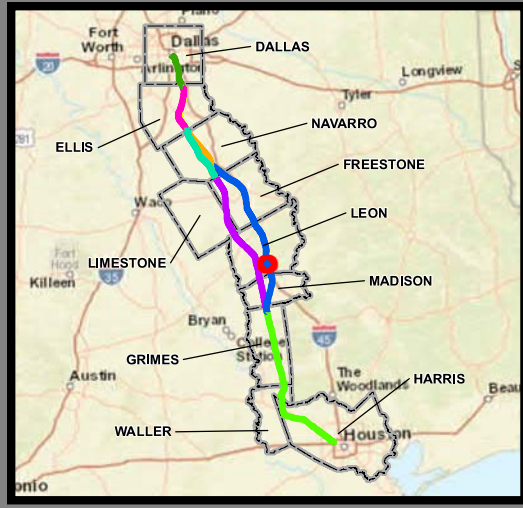
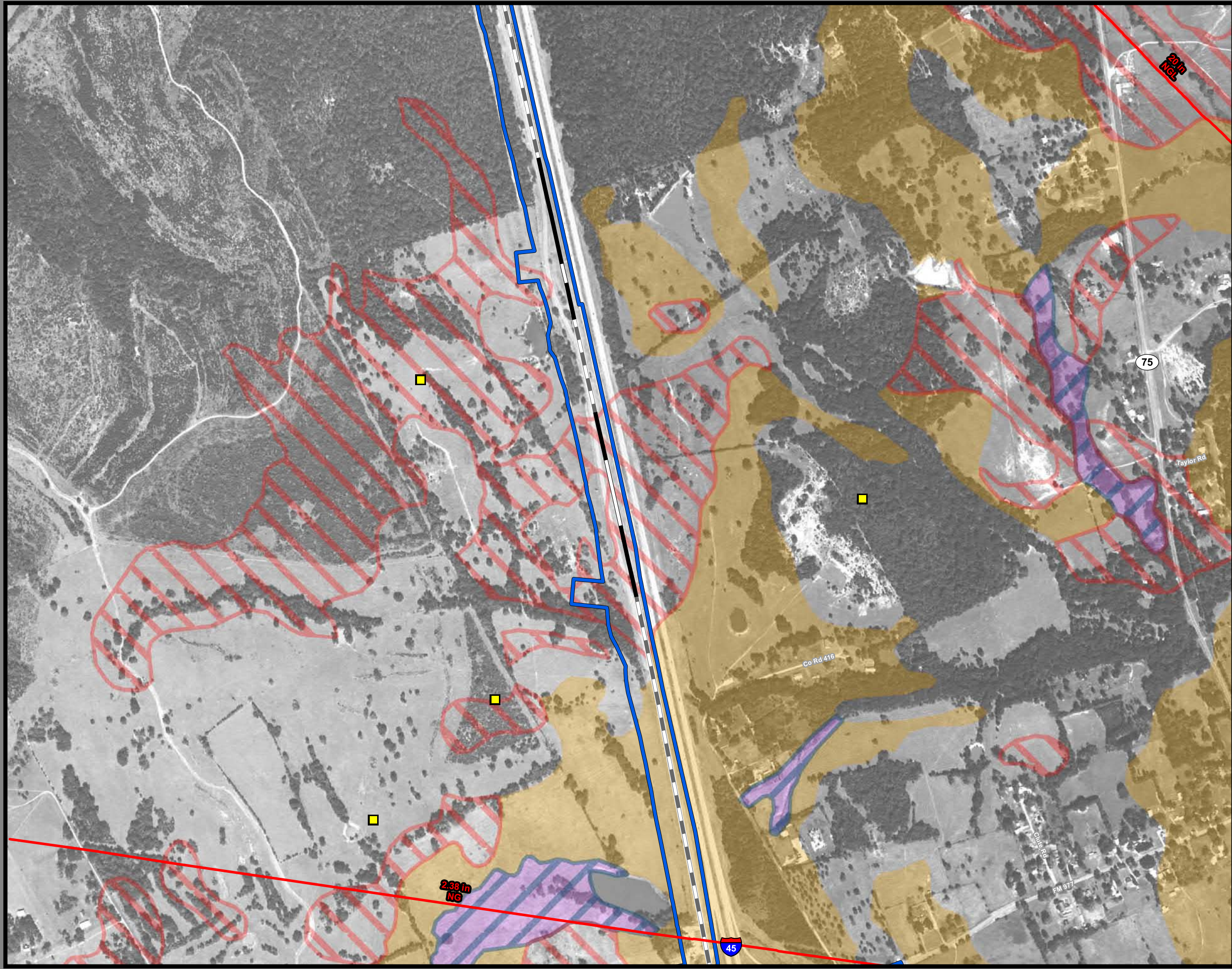
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erodible
Railroad	Hydric
Faults	Prime Farmland
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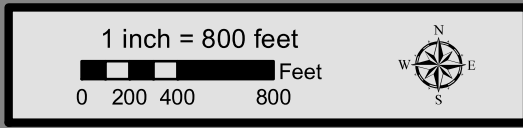
**Dallas to Houston
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Mineral and Utility Resources
Segment 3C
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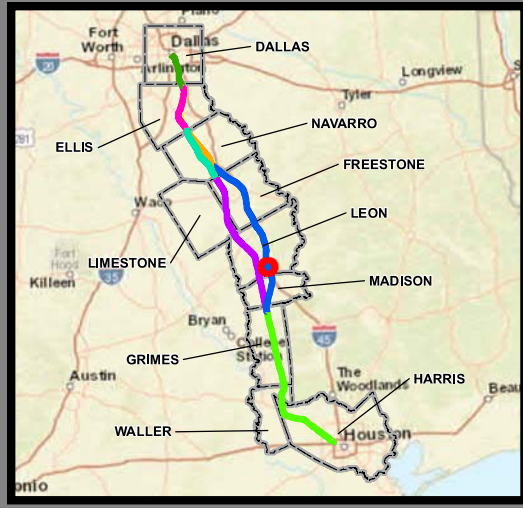
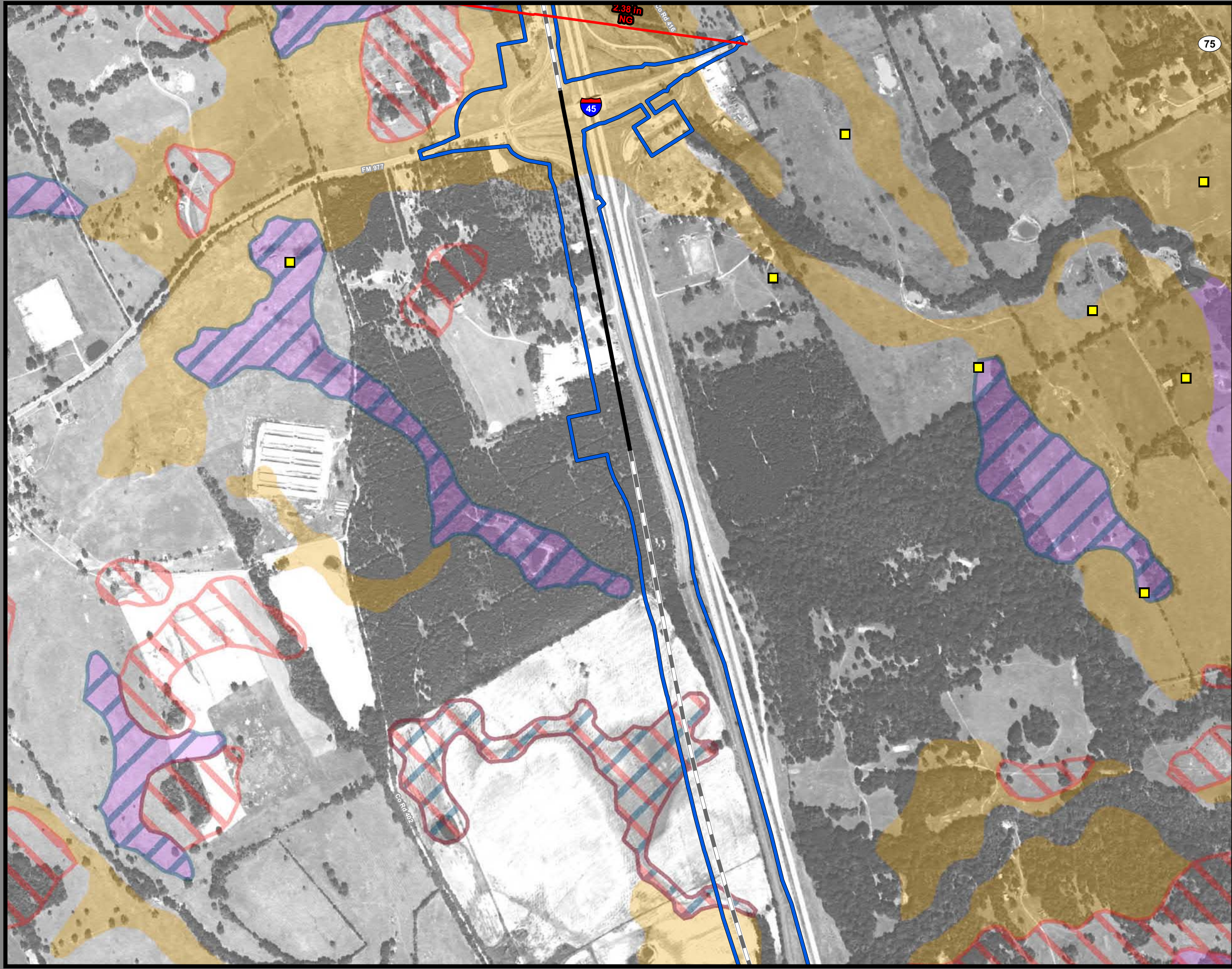
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
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Segment 3A	
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Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
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Aerial Imagery: USDA NAIP 2014





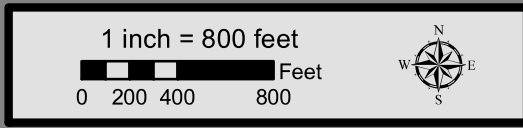
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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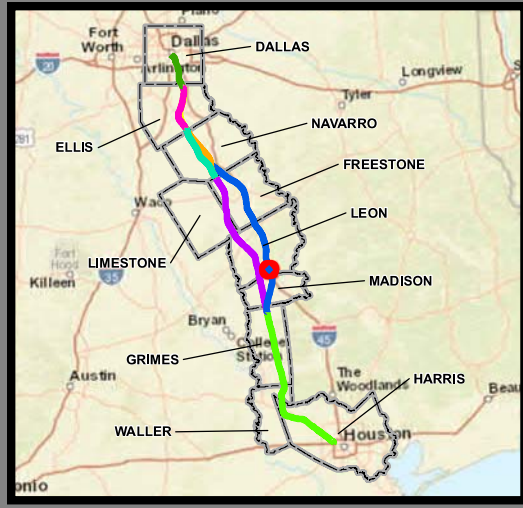
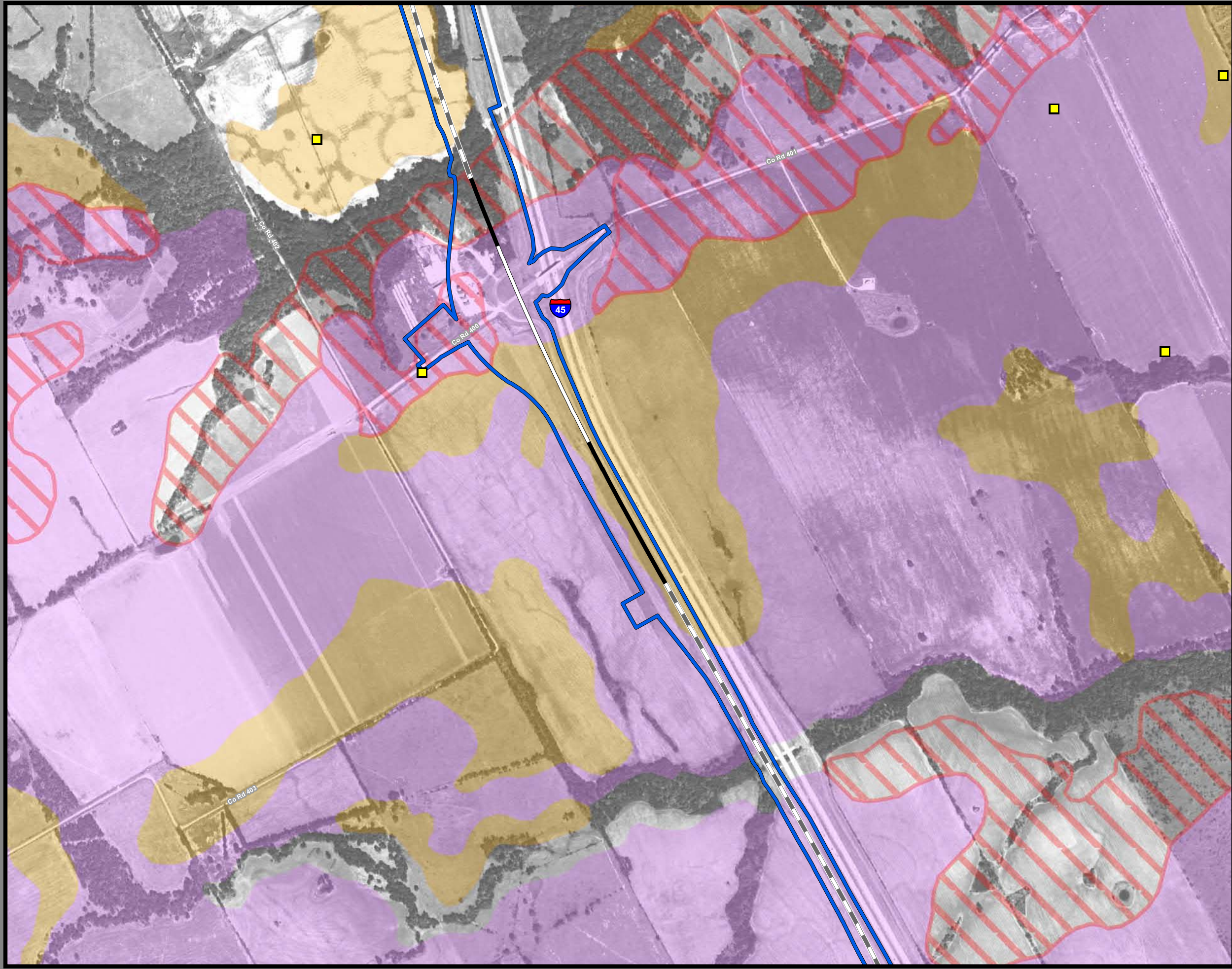
Legend

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

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





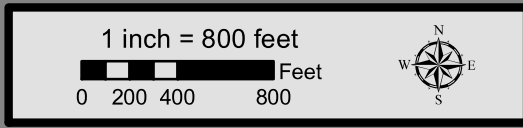
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Segment 3C
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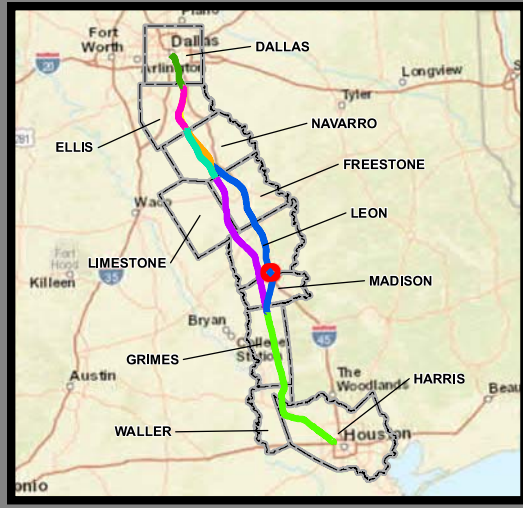
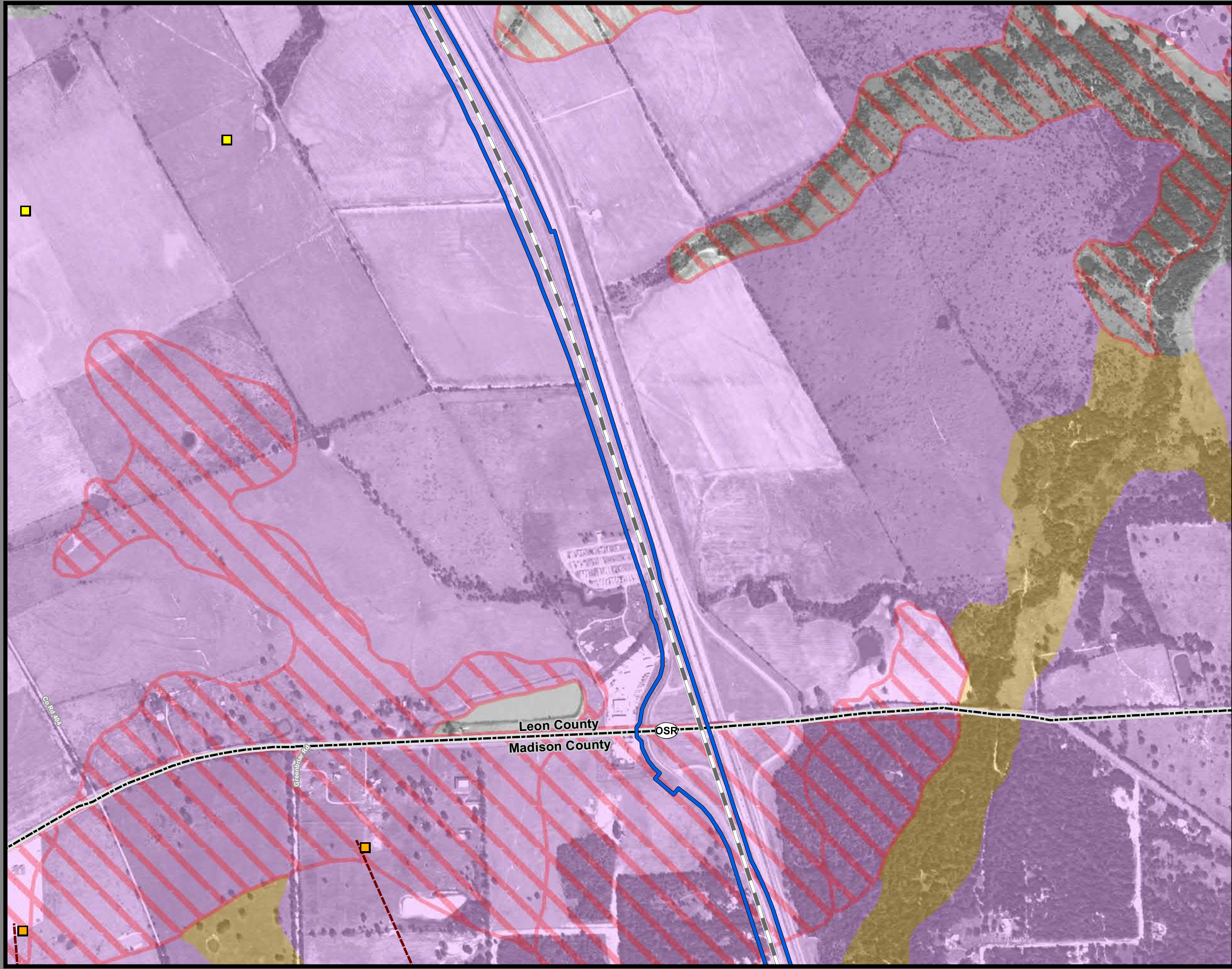
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
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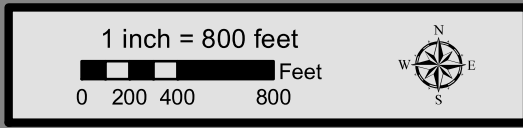
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High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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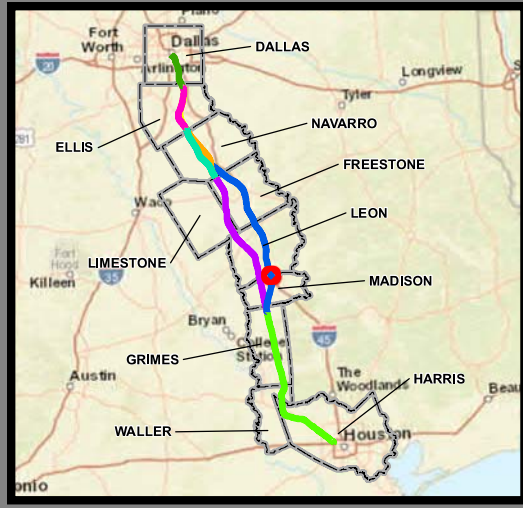
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
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Segment 2B	Electric Transmission Line
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Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
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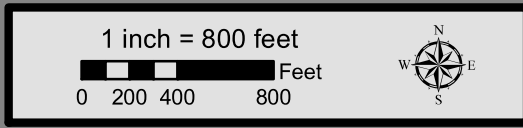
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Segment 3C
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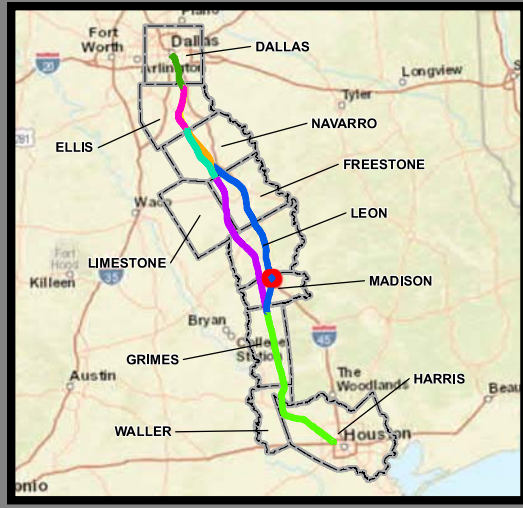
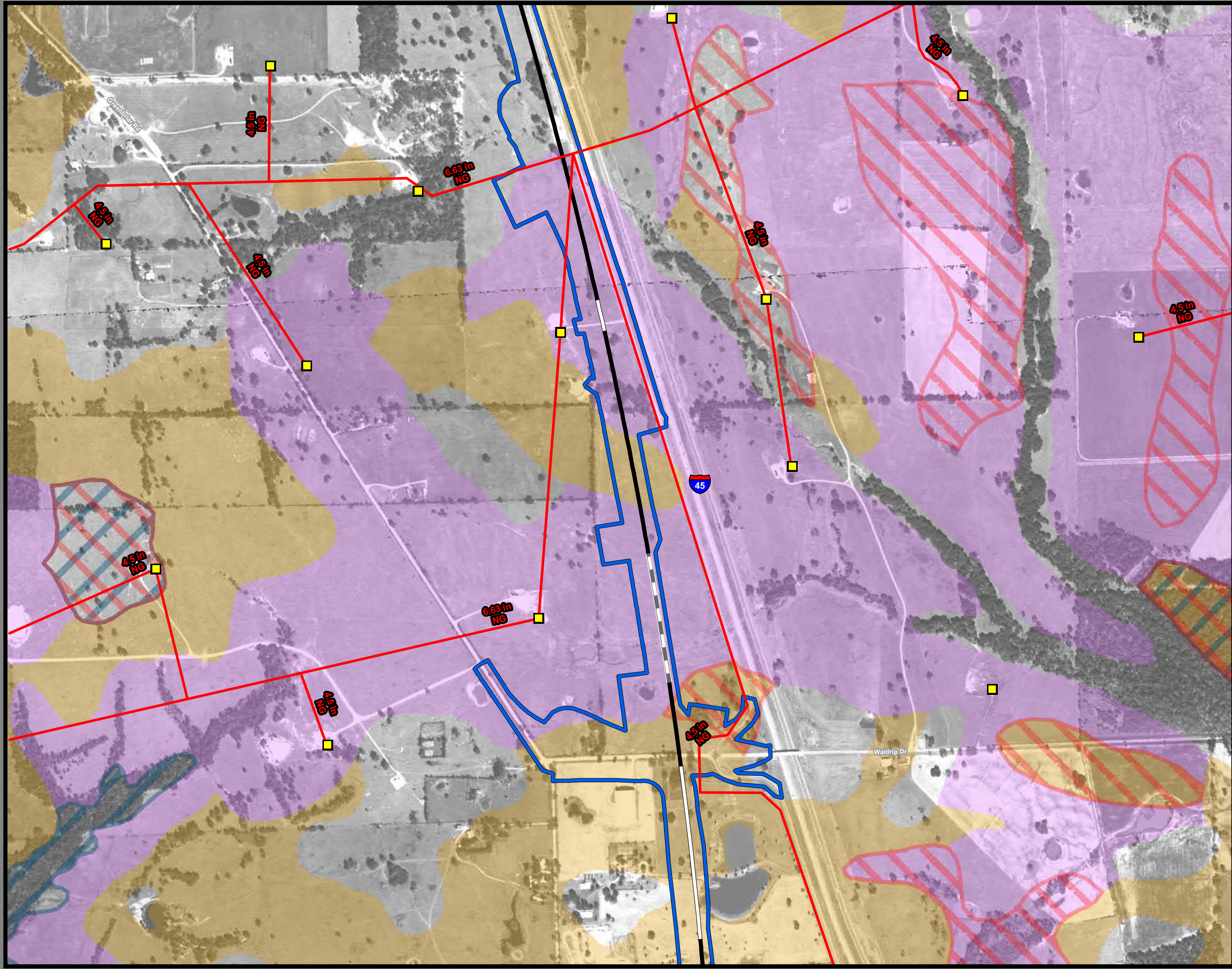
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
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Segment 2B	Electric Transmission Line
Segment 3A	
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Aerial Imagery: USDA NAIP 2014





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Segment 3C
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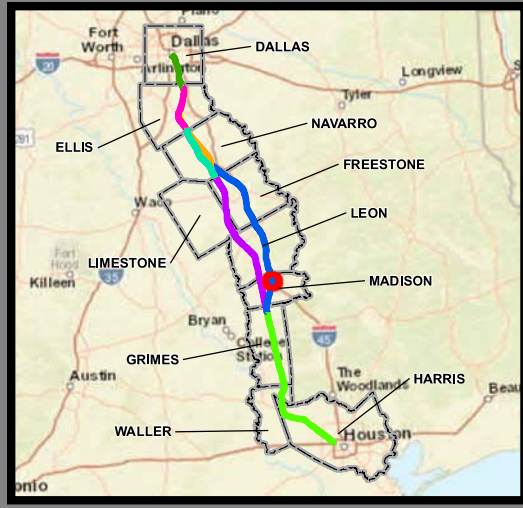
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
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	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
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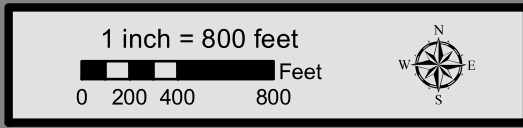
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Segment 3C
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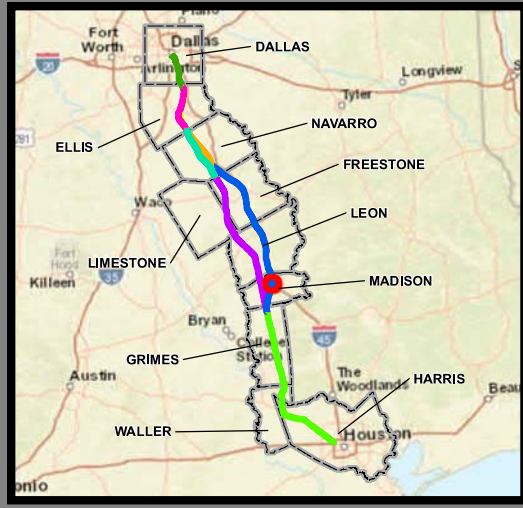
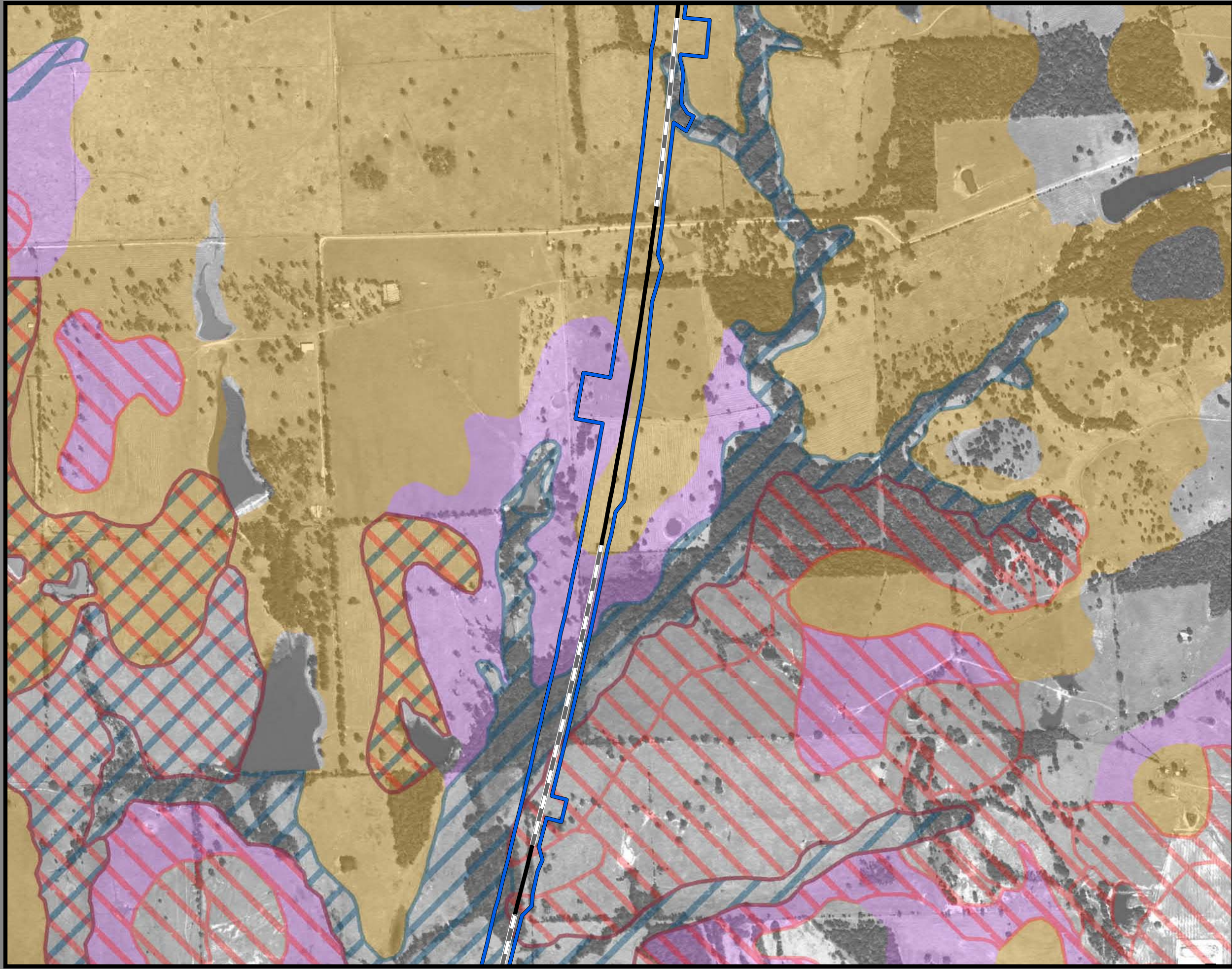
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
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Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
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	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
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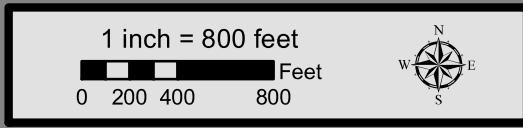
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Segment 3C
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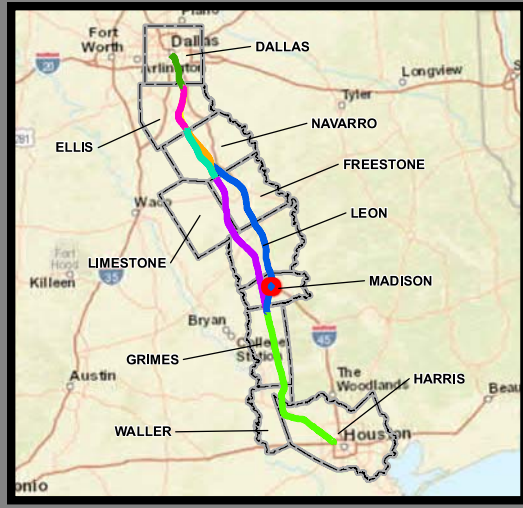
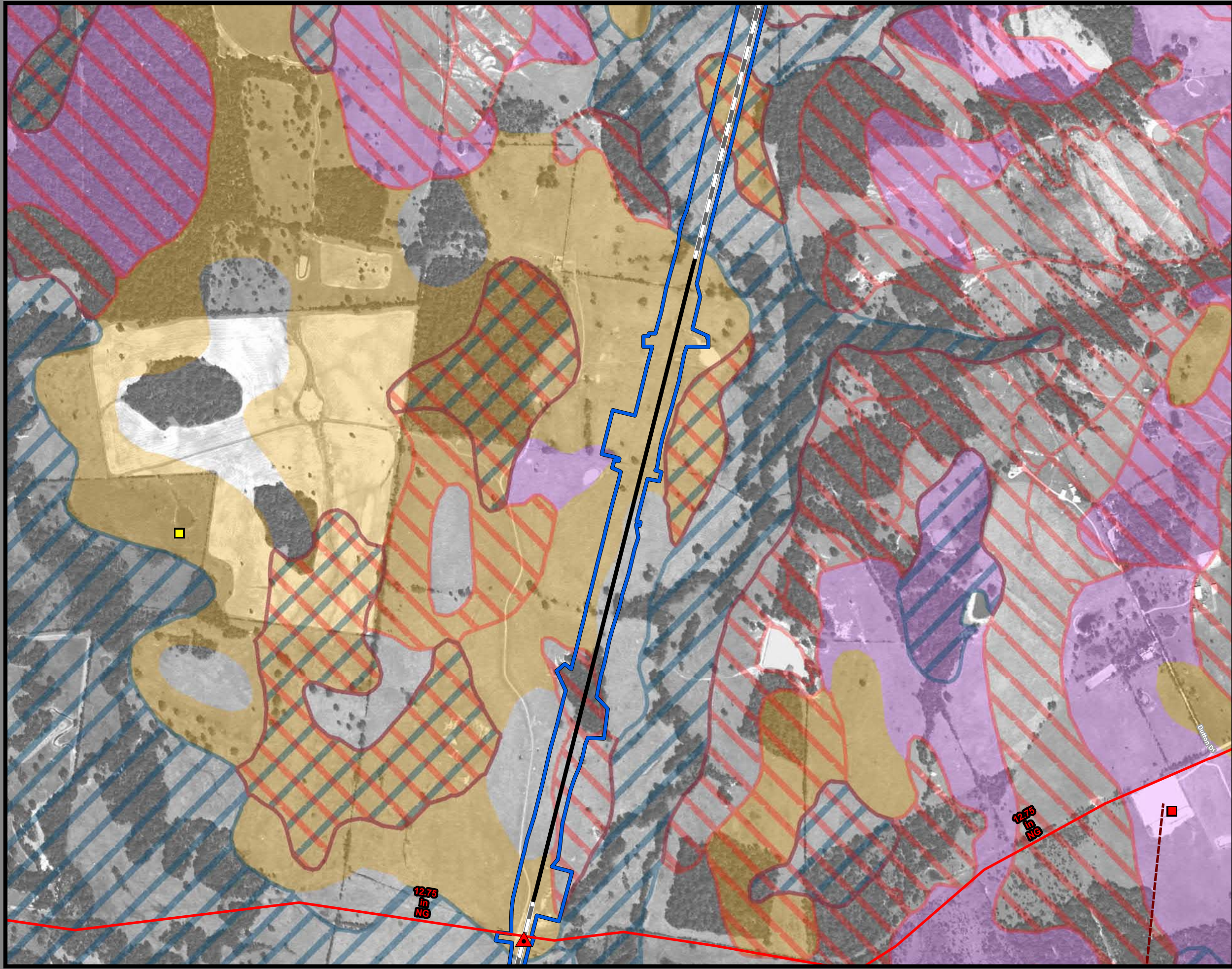
Legend

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
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	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
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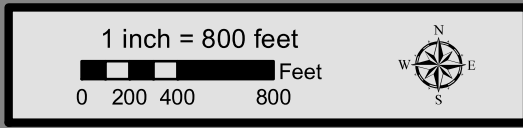
**Dallas to Houston
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Segment 3C
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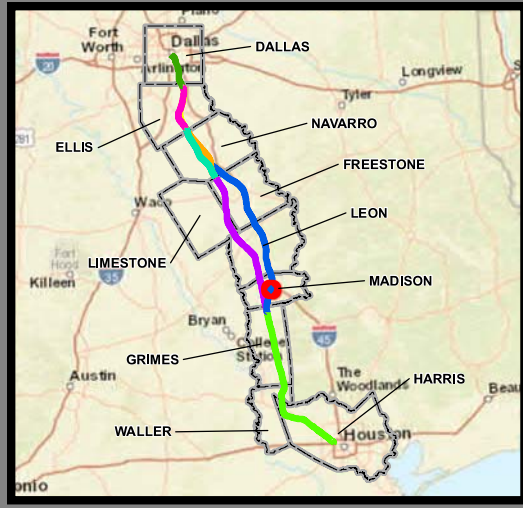
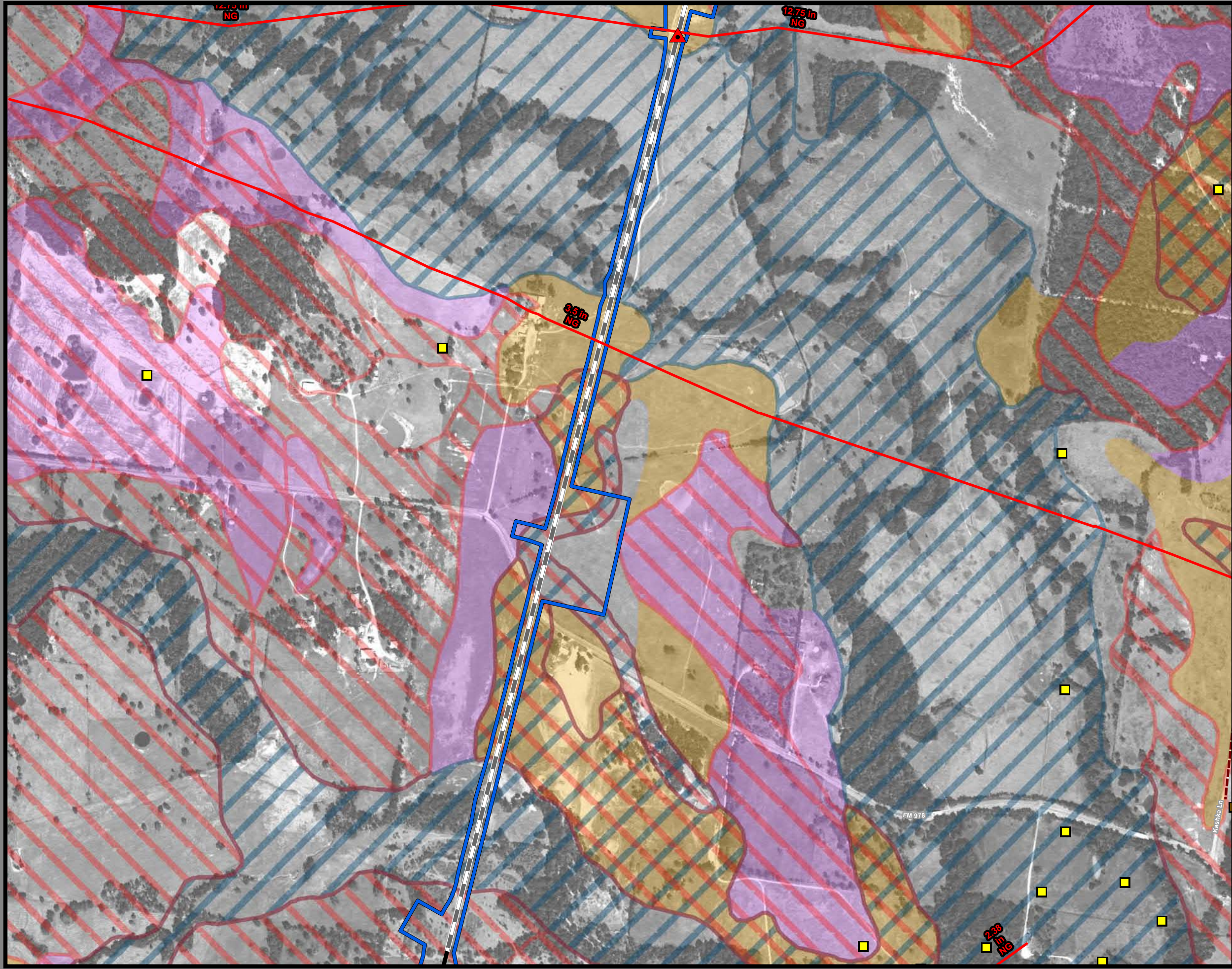
Legend

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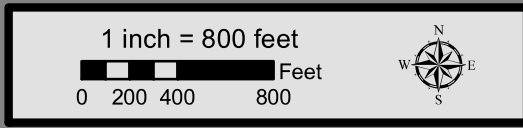
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Segment 3C
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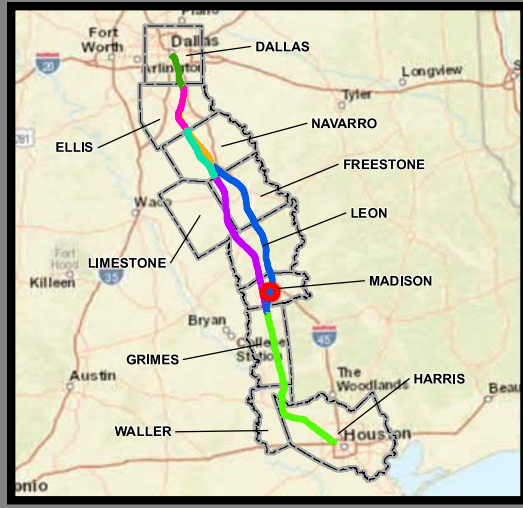
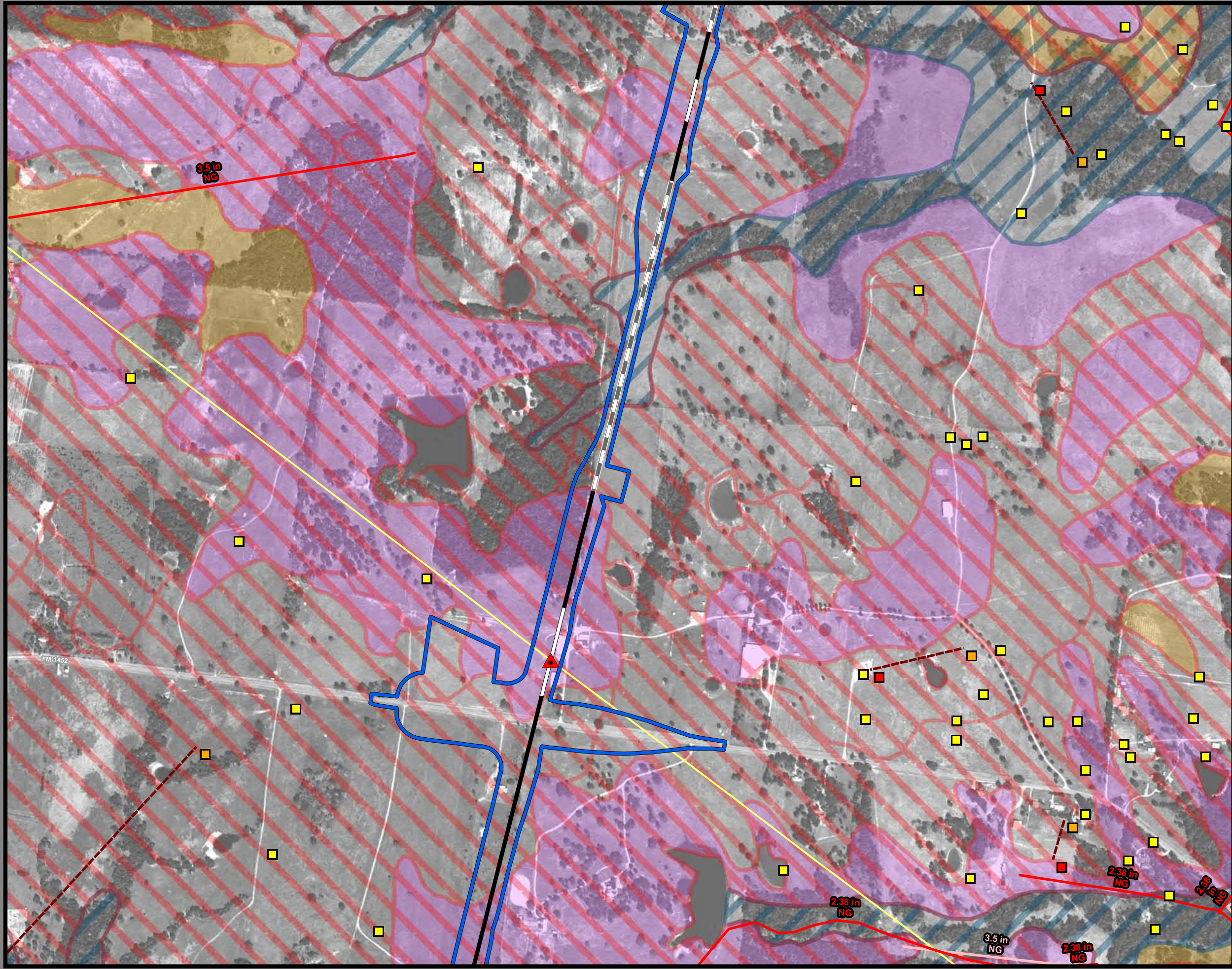
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
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Track Configuration	Oil/Gas Pipelines
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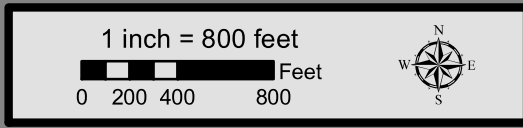
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Mineral and Utility Resources
Segment 3C
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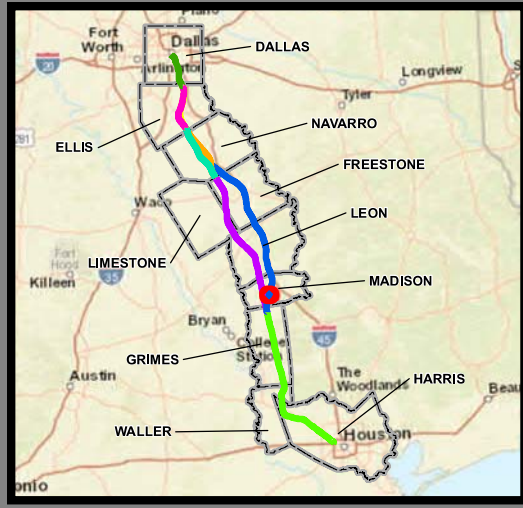
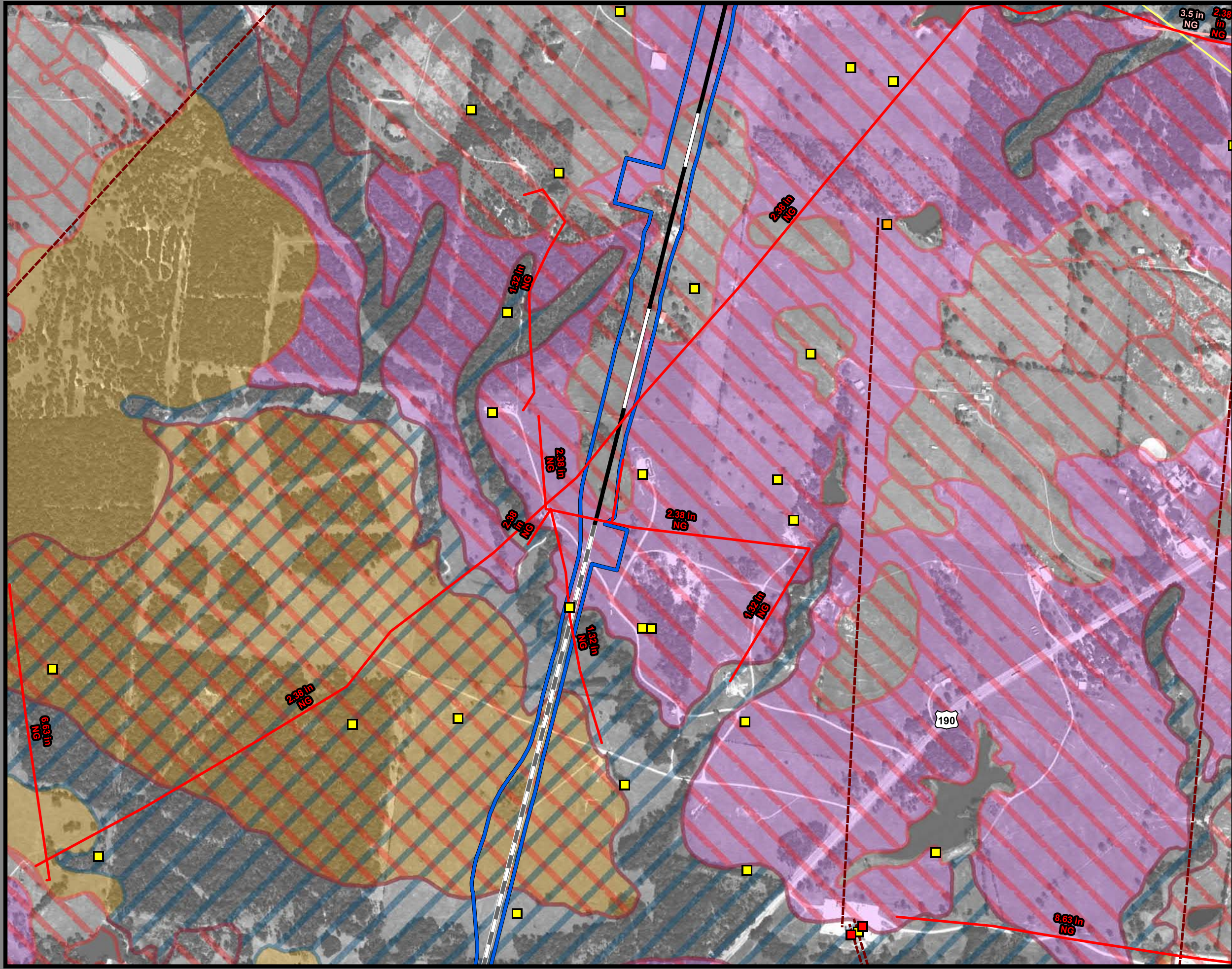
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
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Track Configuration	Oil/Gas Pipelines
Viaduct	Active
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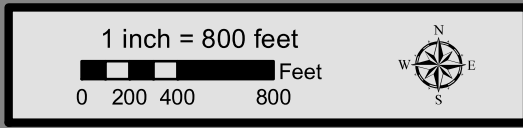
**Dallas to Houston
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Mineral and Utility Resources
Segment 3C
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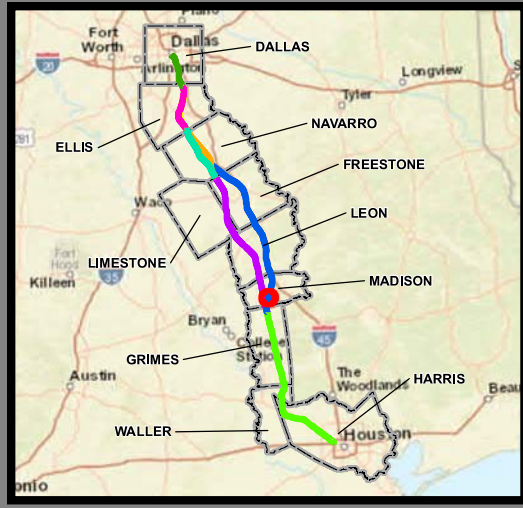
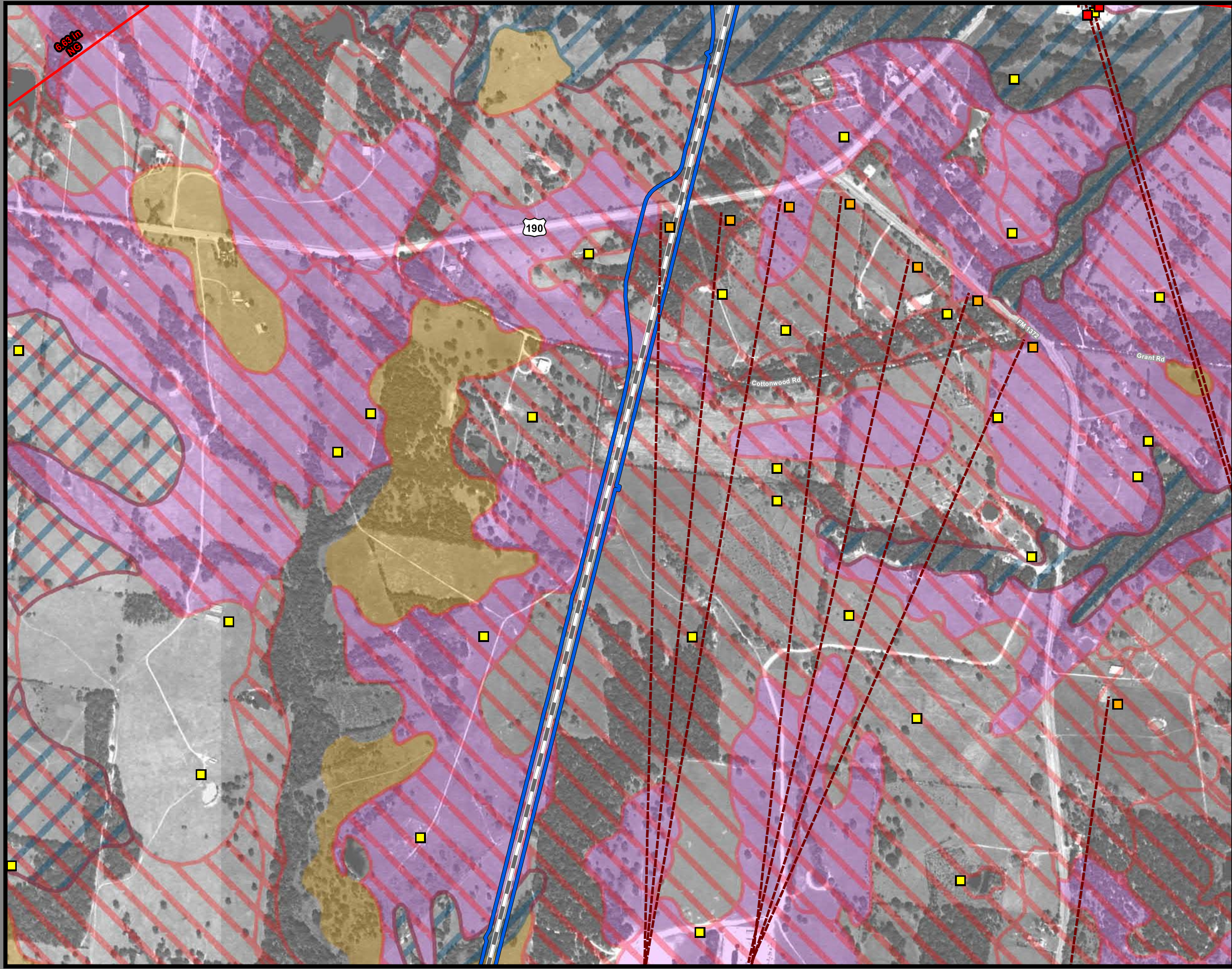
Legend

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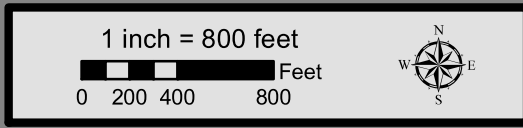
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Mineral and Utility Resources
Segment 3C
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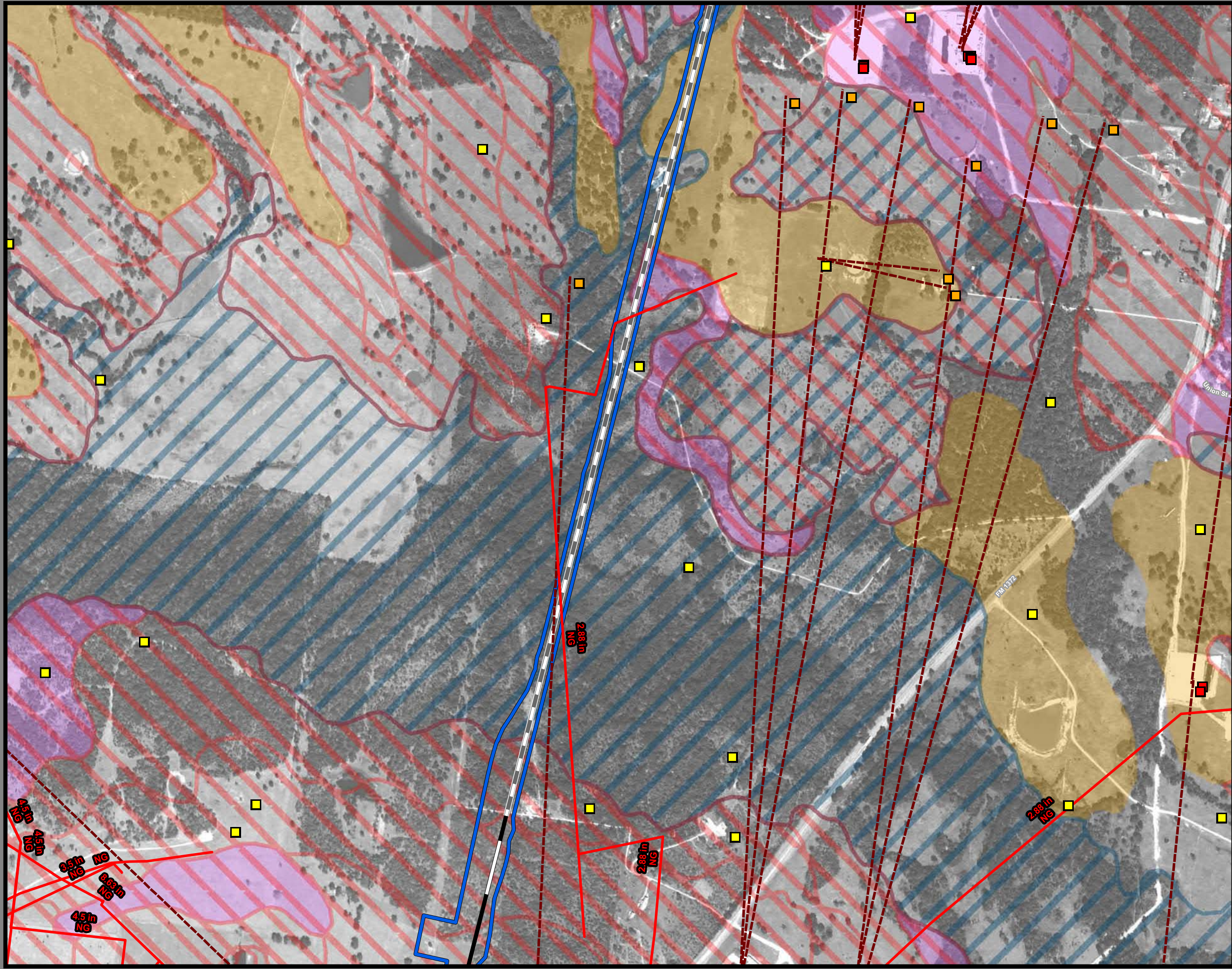
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
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Mineral and Utility Resources
Segment 3C
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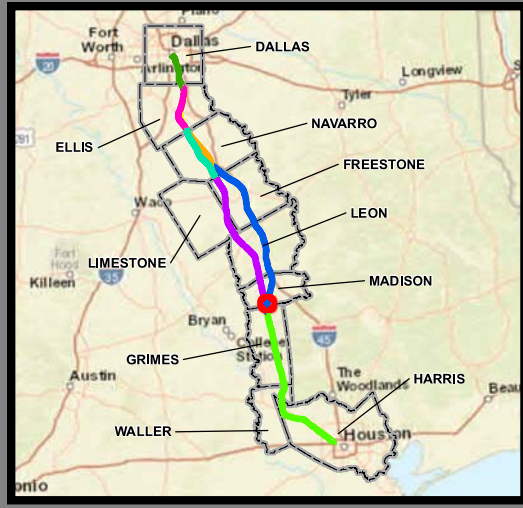
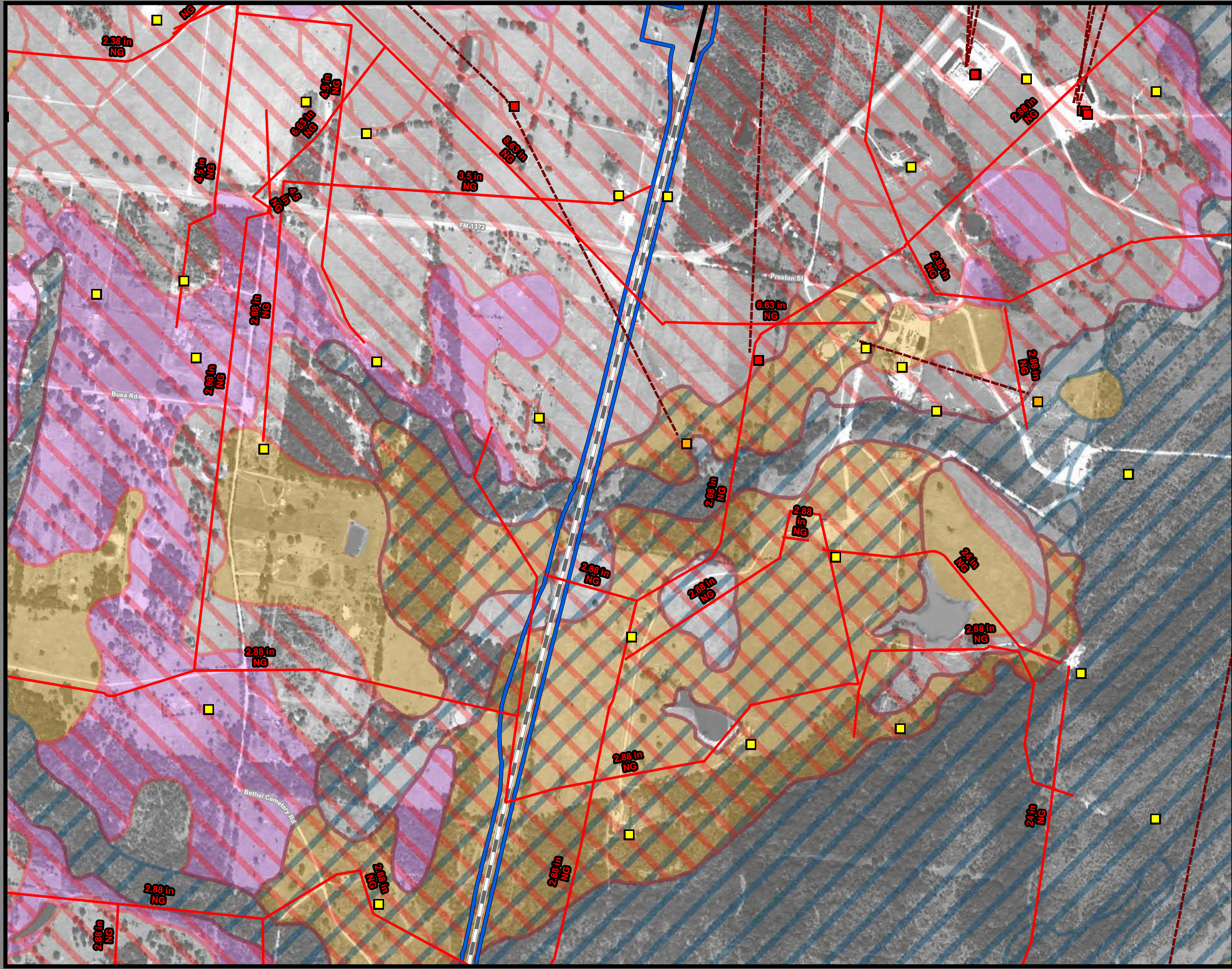
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	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





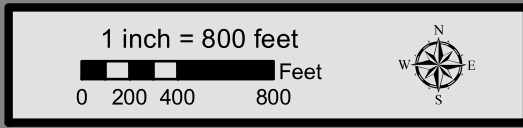
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 149 of 257**

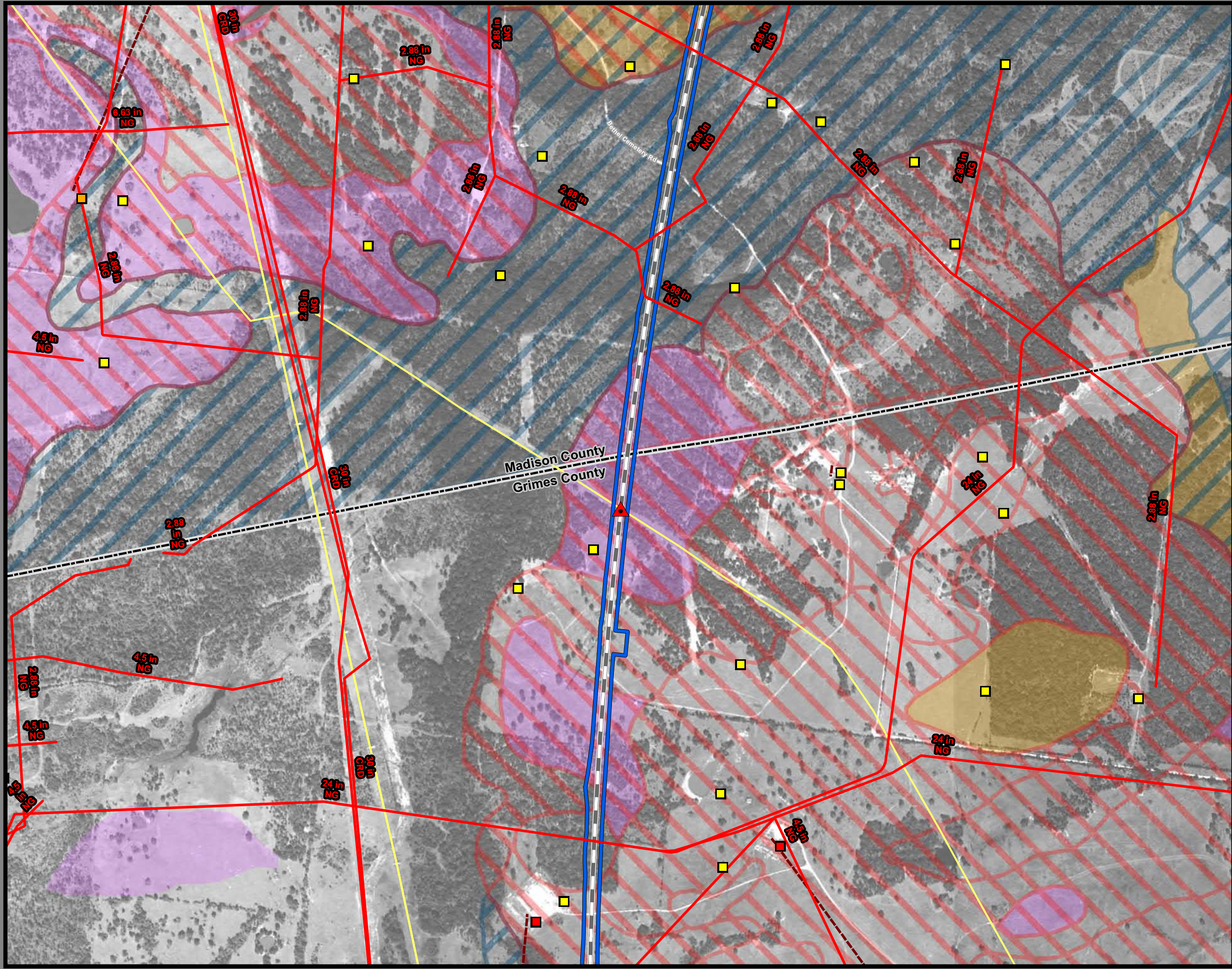
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well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

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
Sheet 150 of 257**

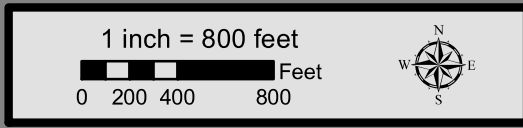
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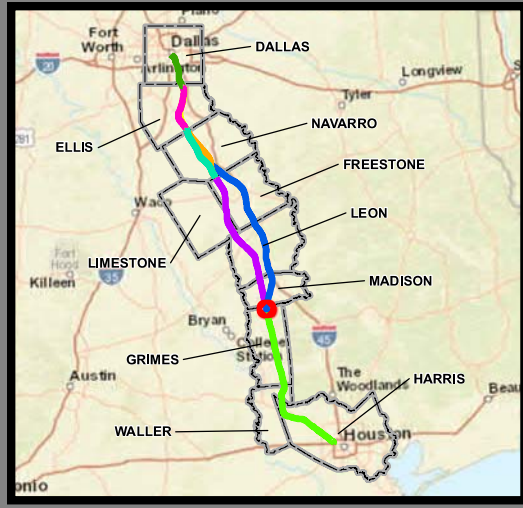
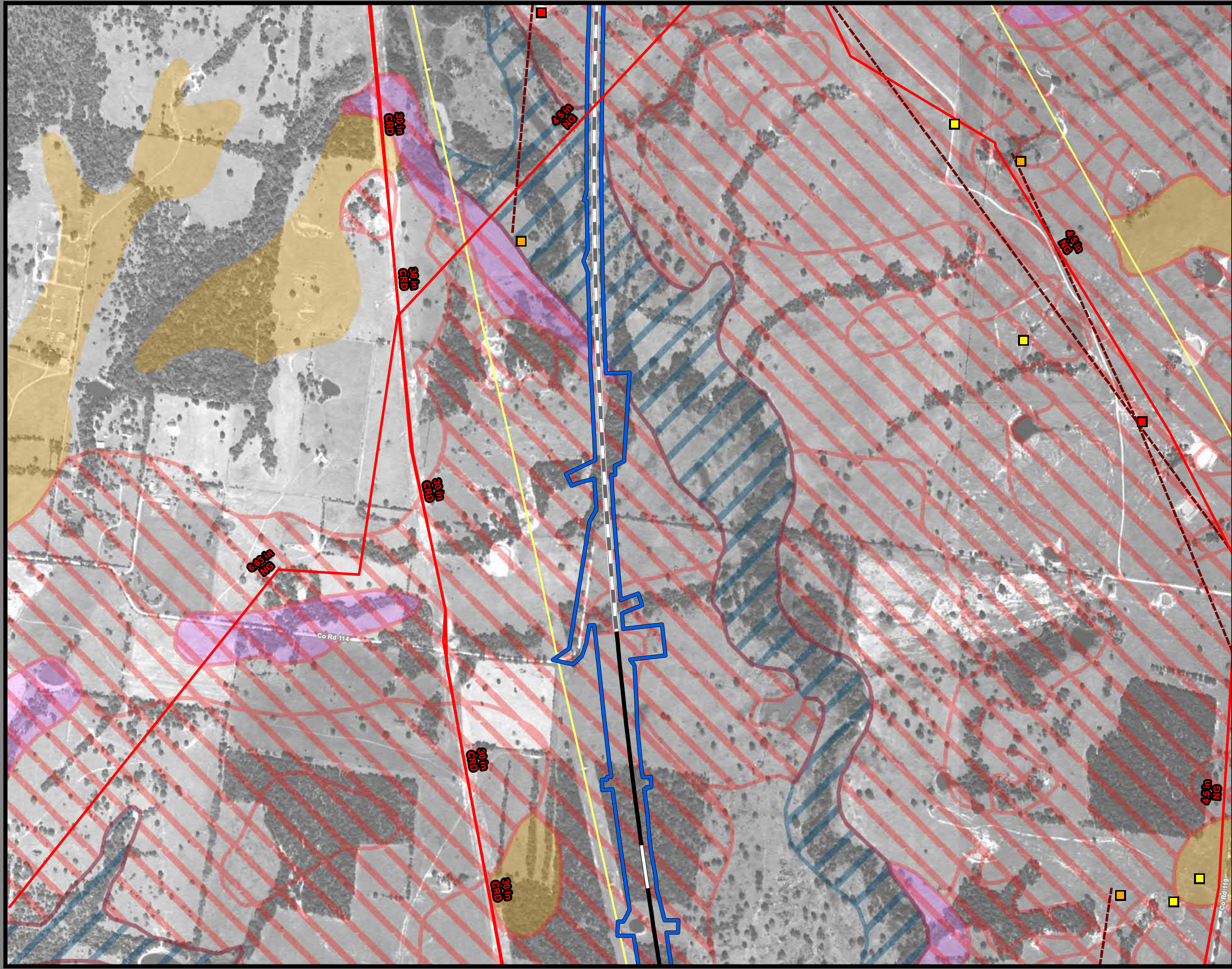
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct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

This Sheet only depicts Segment 3C; Segment 4 is also located in this same area and can be referenced on Sheet 199.

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





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High-Speed Rail Project
Mineral and Utility Resources
Segment 3C
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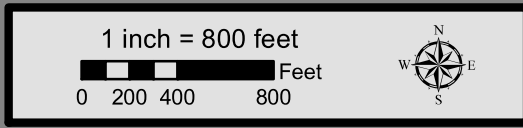
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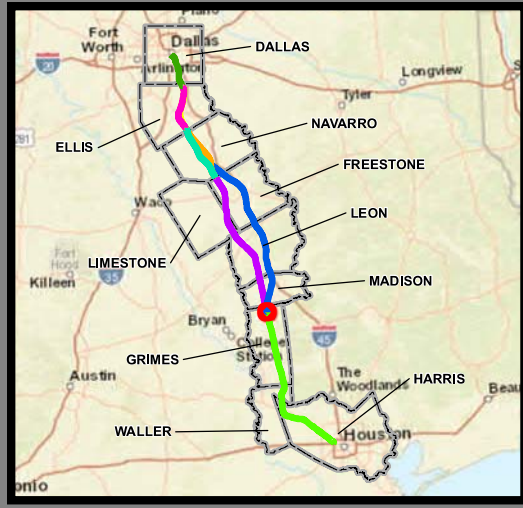
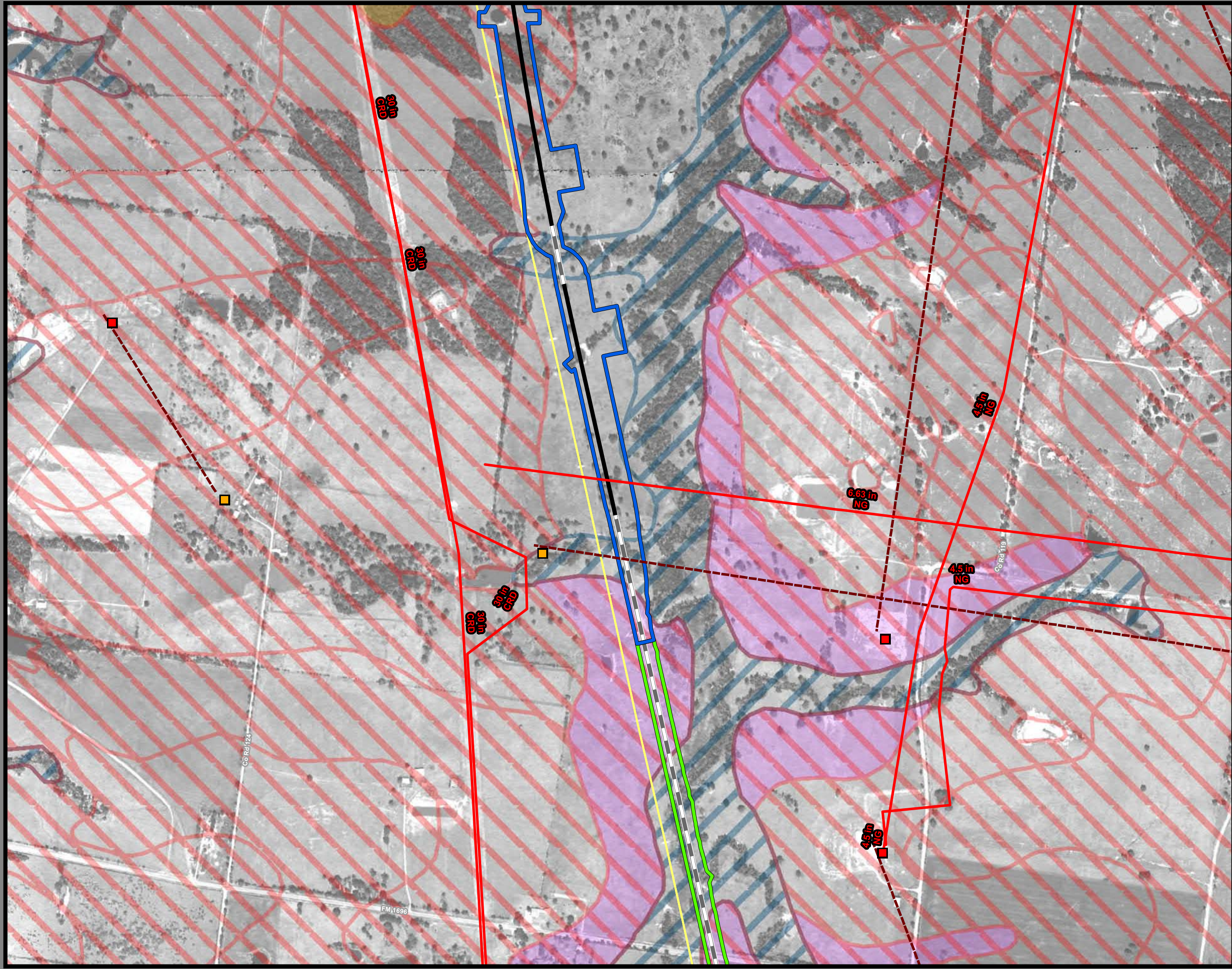
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydic
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

This Sheet only depicts Segment 3C; Segment 4 is also located in this same area and can be referenced on Sheet 200.

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





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High-Speed Rail Project
Mineral and Utility Resources
Segment 3C, 5
Sheet 152 of 257**

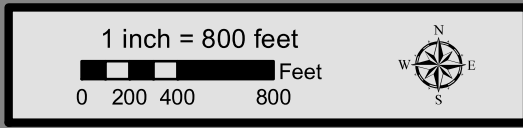
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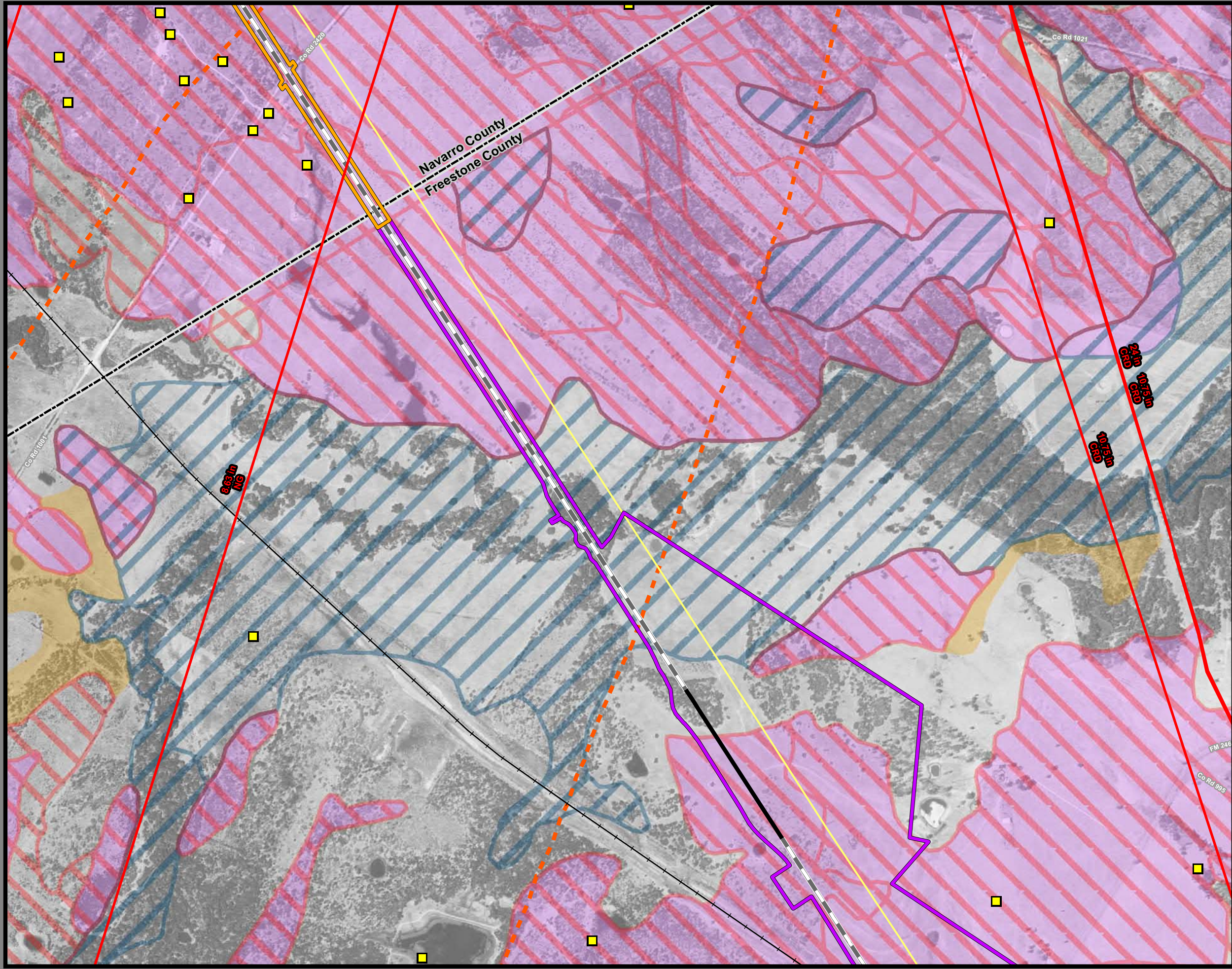
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct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

This Sheet only depicts Segments 3C & 5; Segment 4 is also located in this same area and can be referenced on Sheet 201.

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





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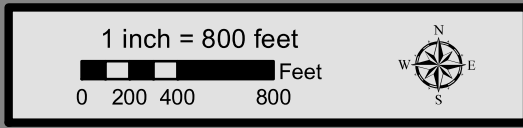
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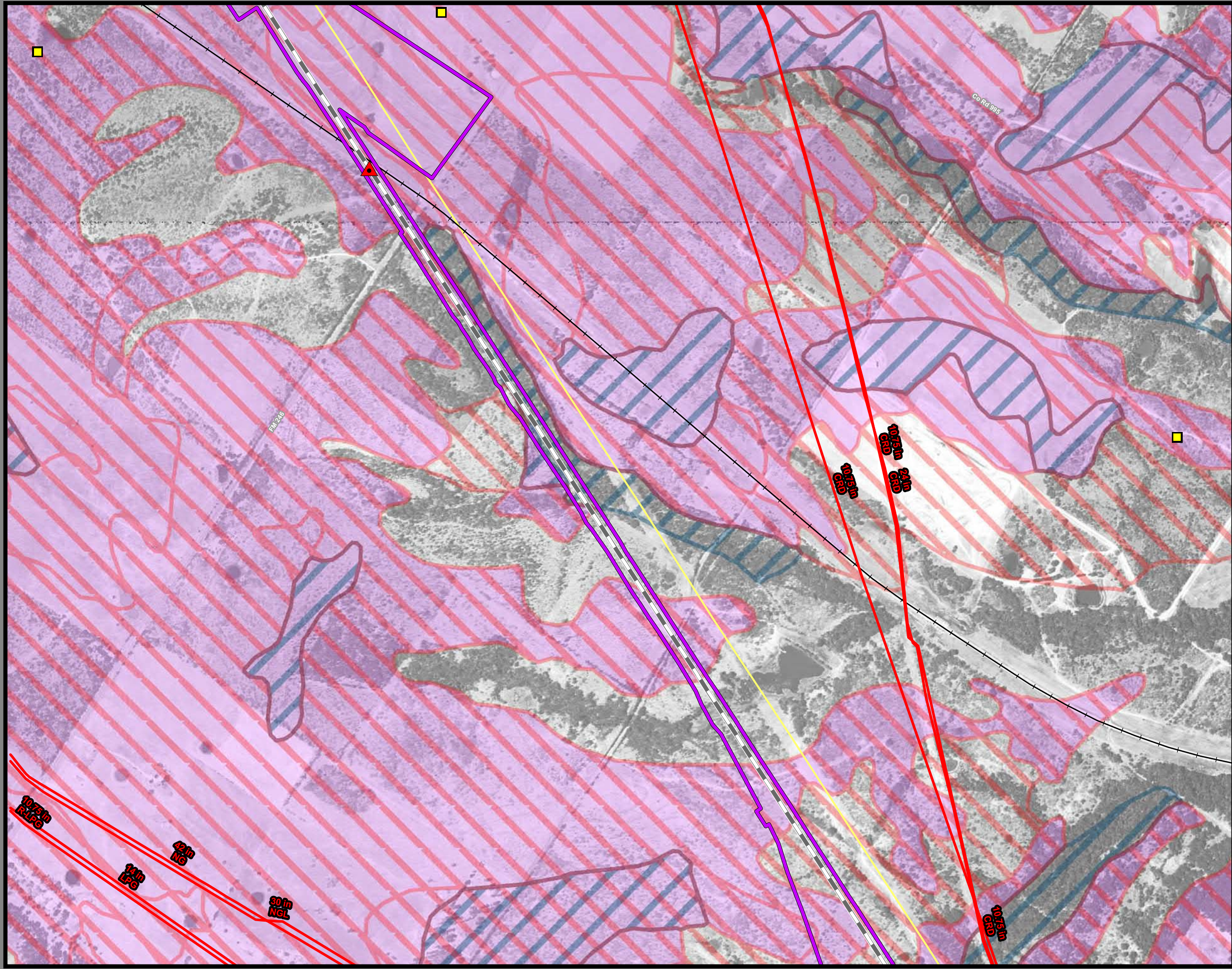
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct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

This Sheet only depicts Segments 3B & 4; Segment 3A is also located in this same area and can be referenced on Sheet 61.

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





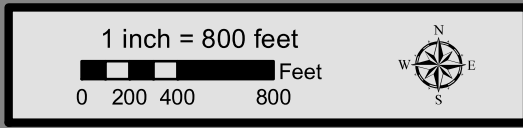
Dallas to Houston
High-Speed Rail Project
 Mineral and Utility Resources
 Segment 4
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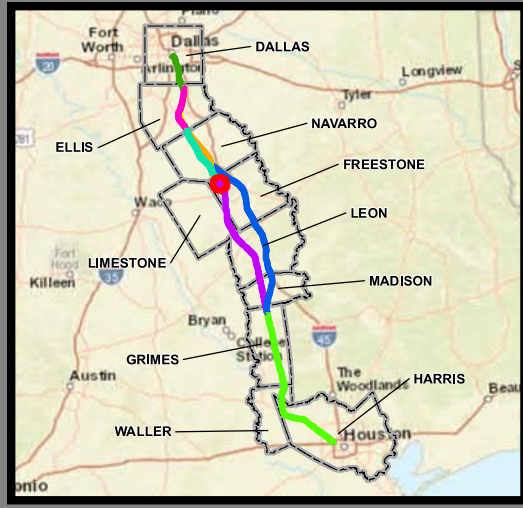
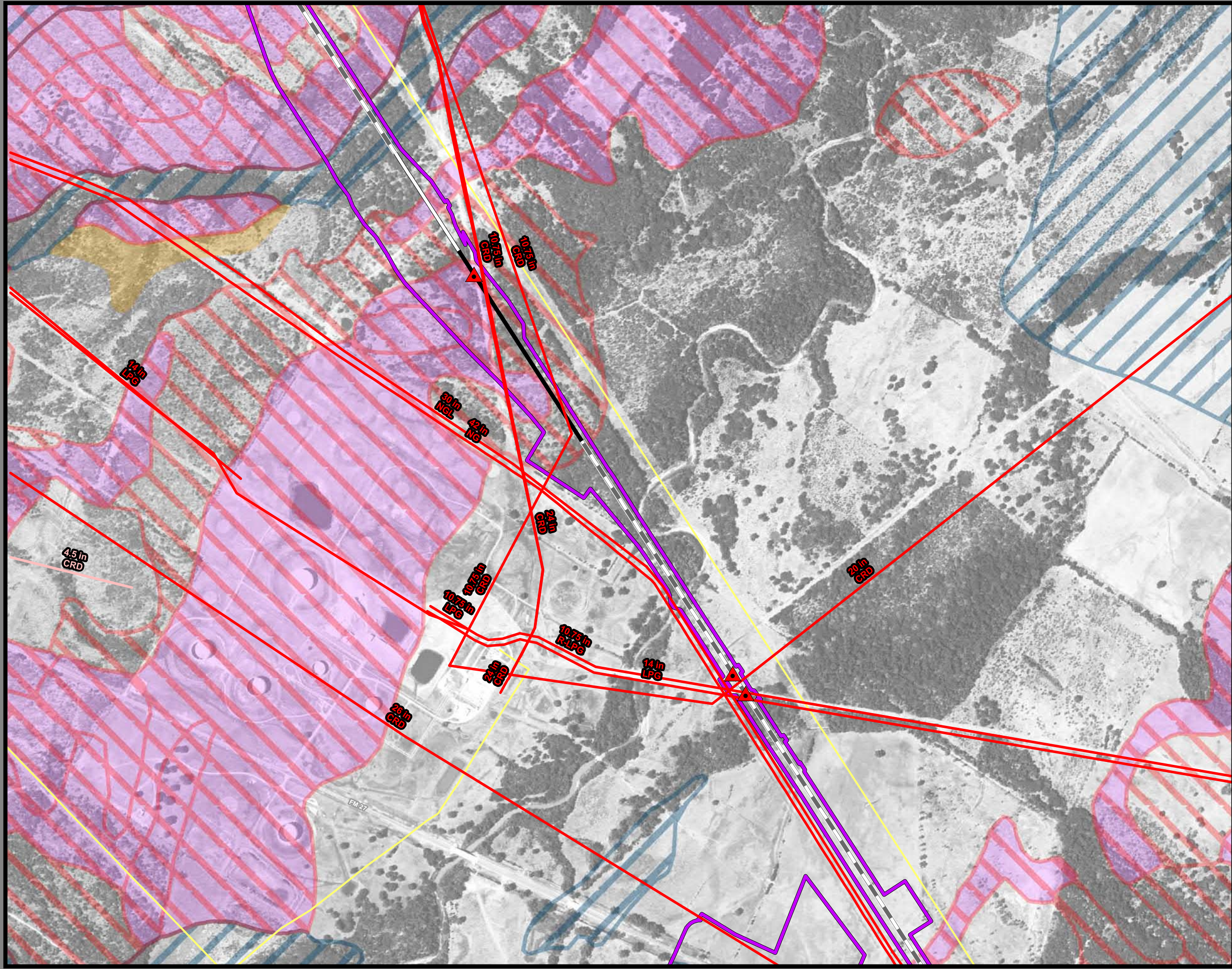
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





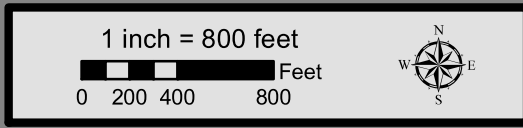
**Dallas to Houston
High-Speed Rail Project
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Segment 4
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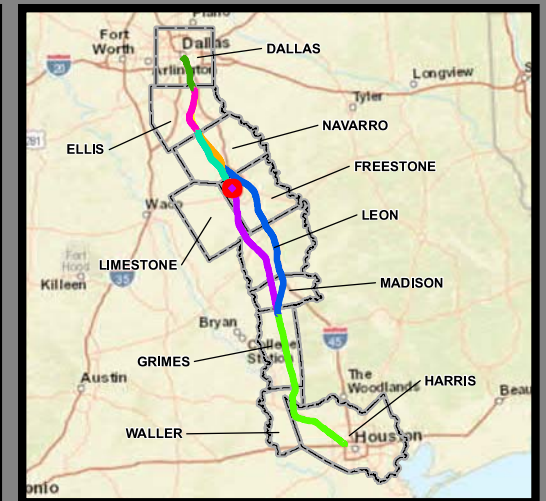
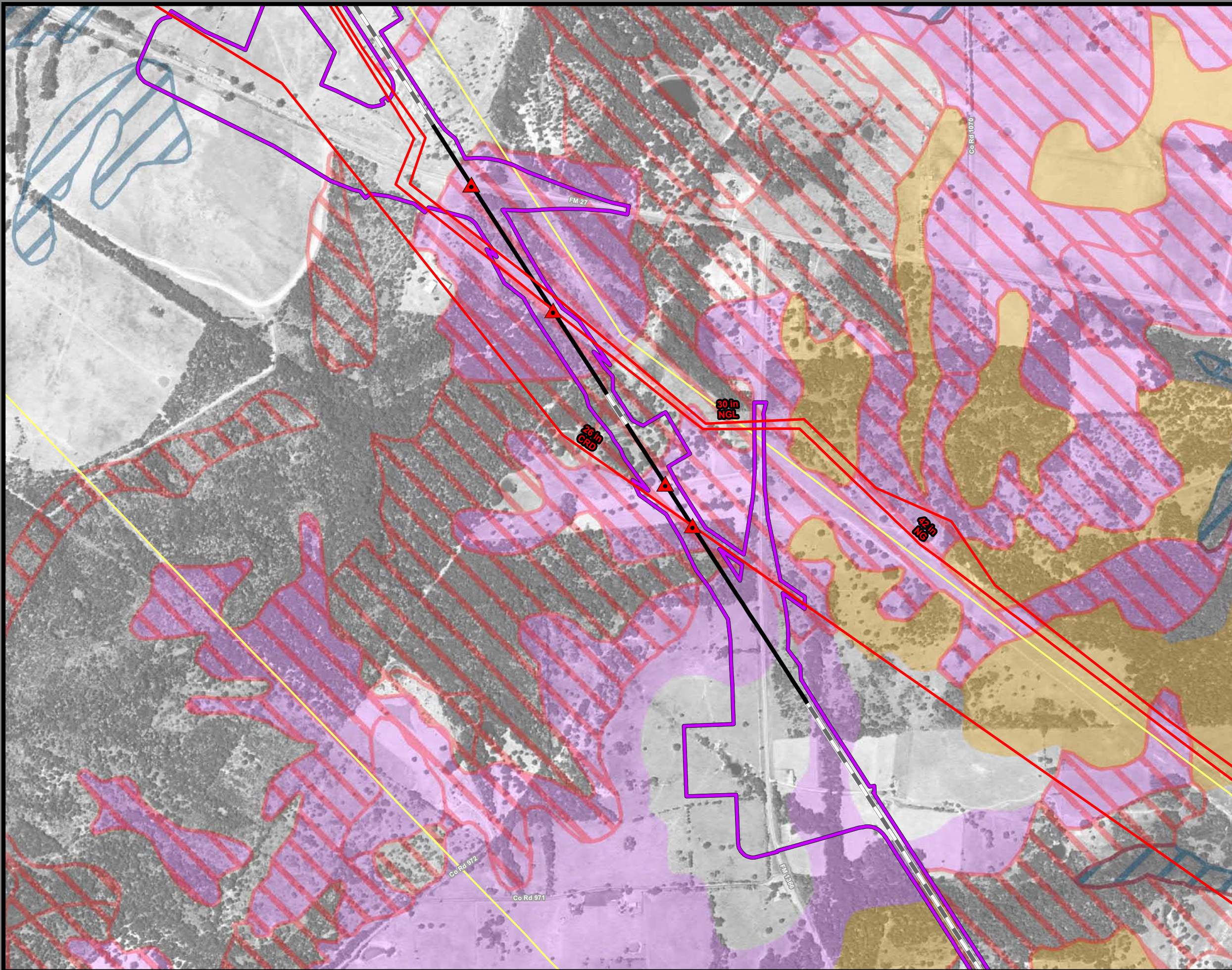
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well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

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





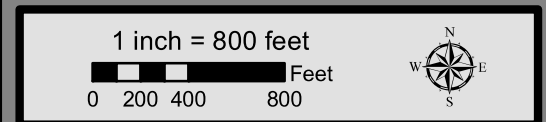
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
Sheet 156 of 257**

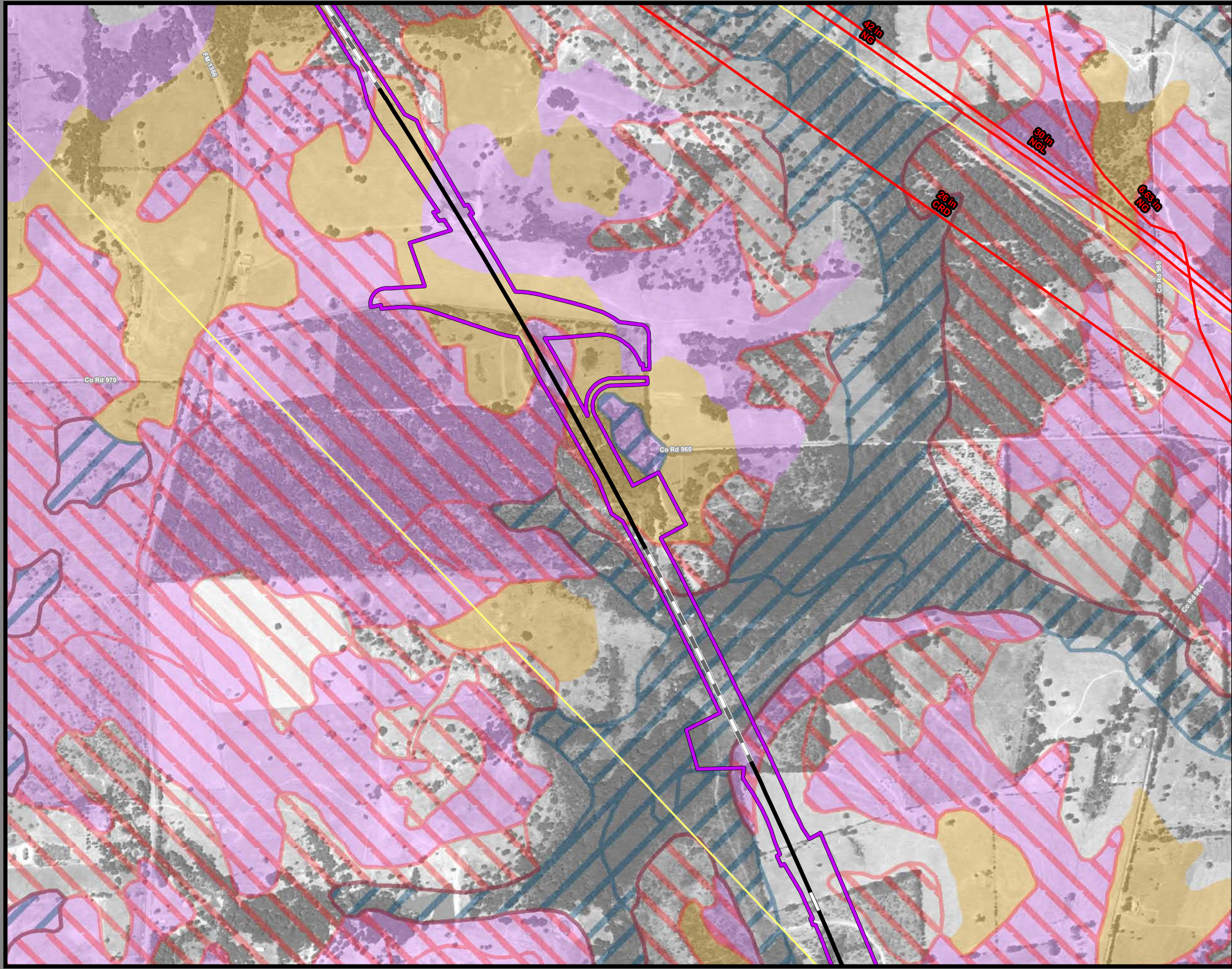
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well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

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 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

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Aerial Imagery: USDA NAIP 2014





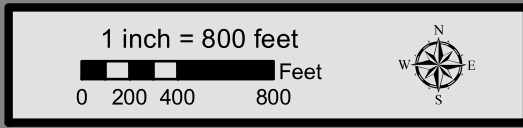
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
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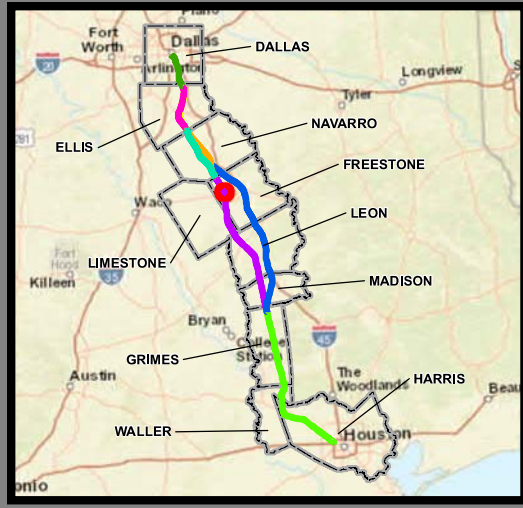
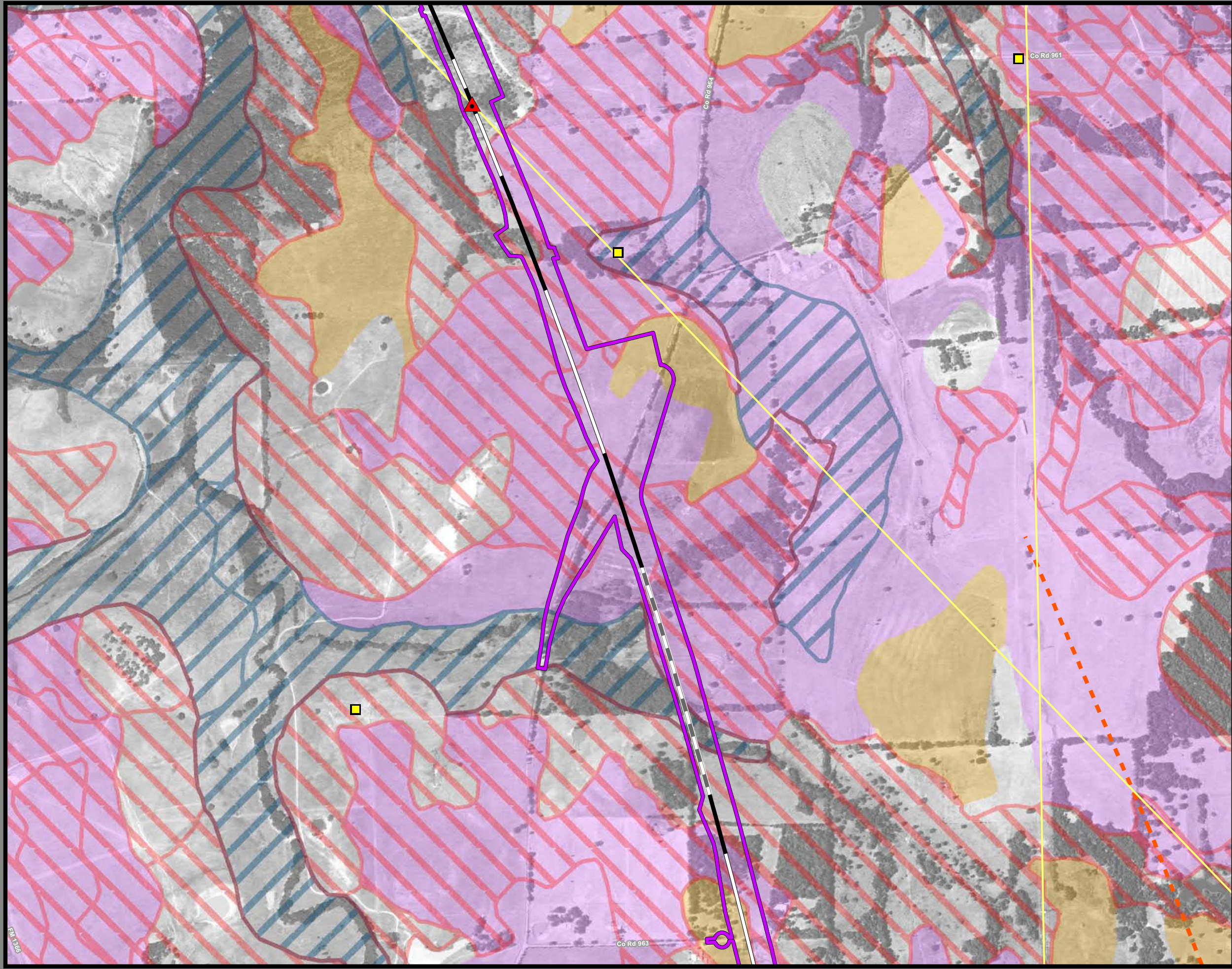
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	Oil/Gas Wells
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erodible
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

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Aerial Imagery: USDA NAIP 2014





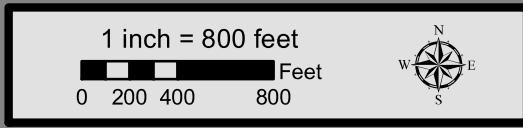
**Dallas to Houston
High-Speed Rail Project
Mineral and Utility Resources
Segment 4
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Legend

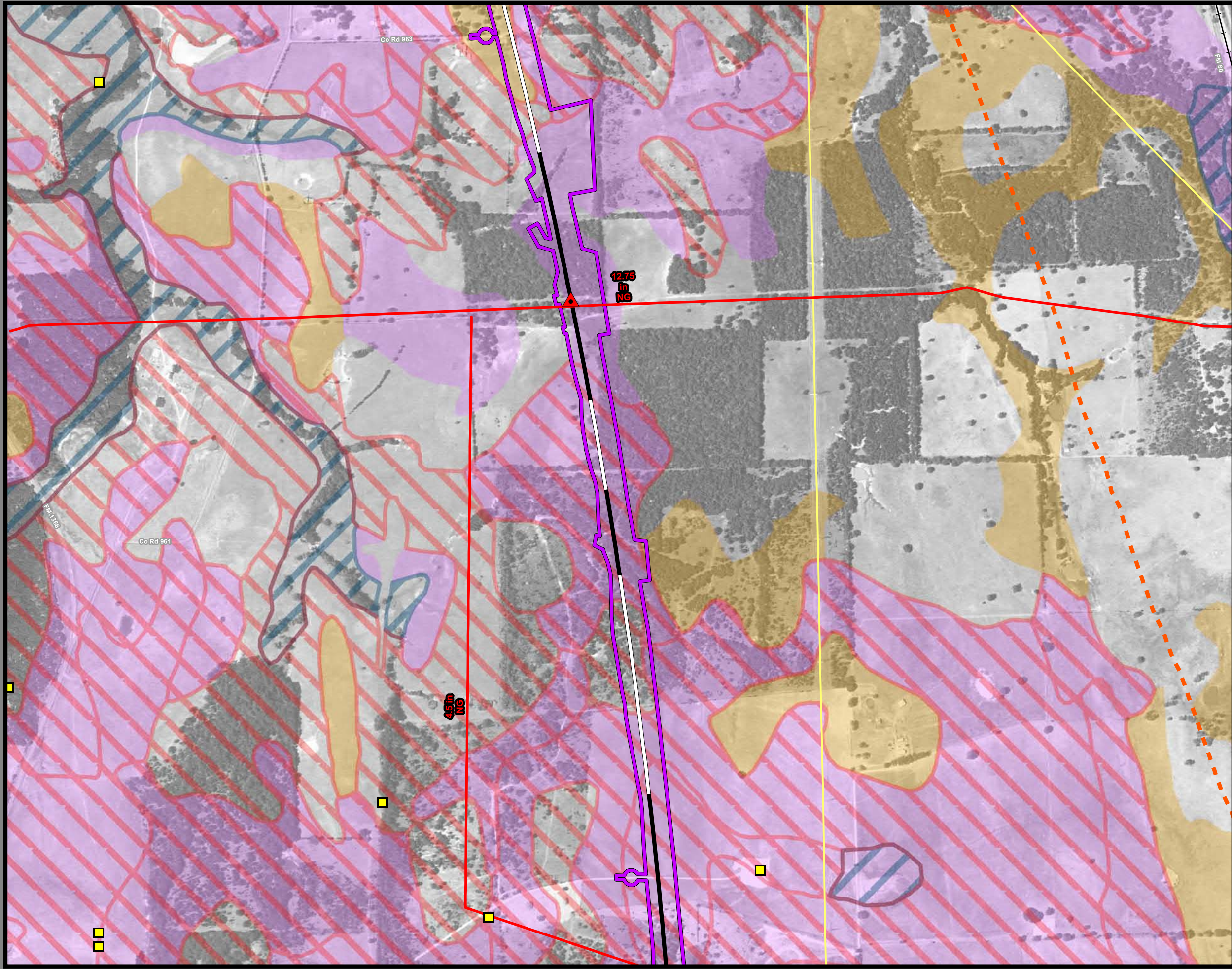
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct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

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Aerial Imagery: USDA NAIP 2014



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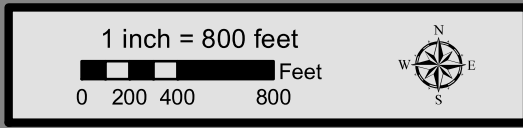
**Dallas to Houston
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Mineral and Utility Resources
Segment 4
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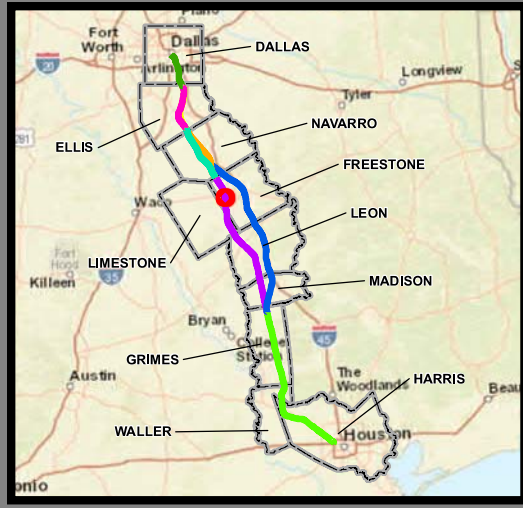
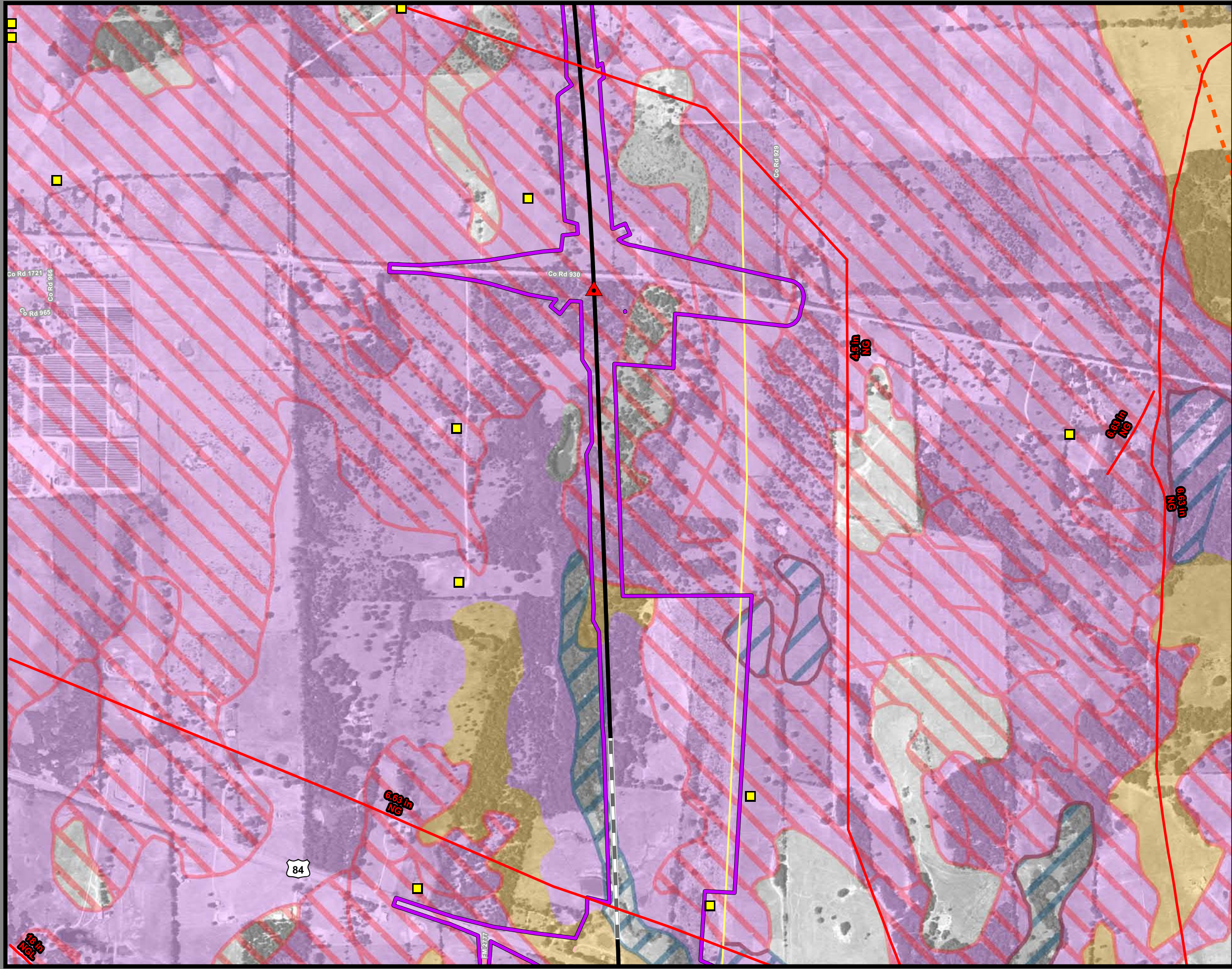
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





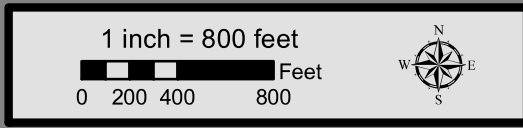
**Dallas to Houston
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Segment 4
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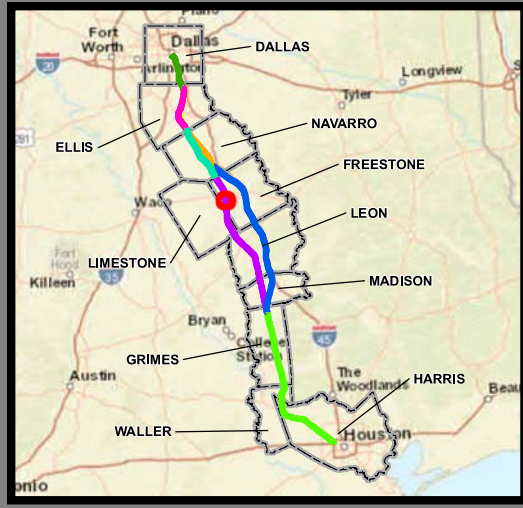
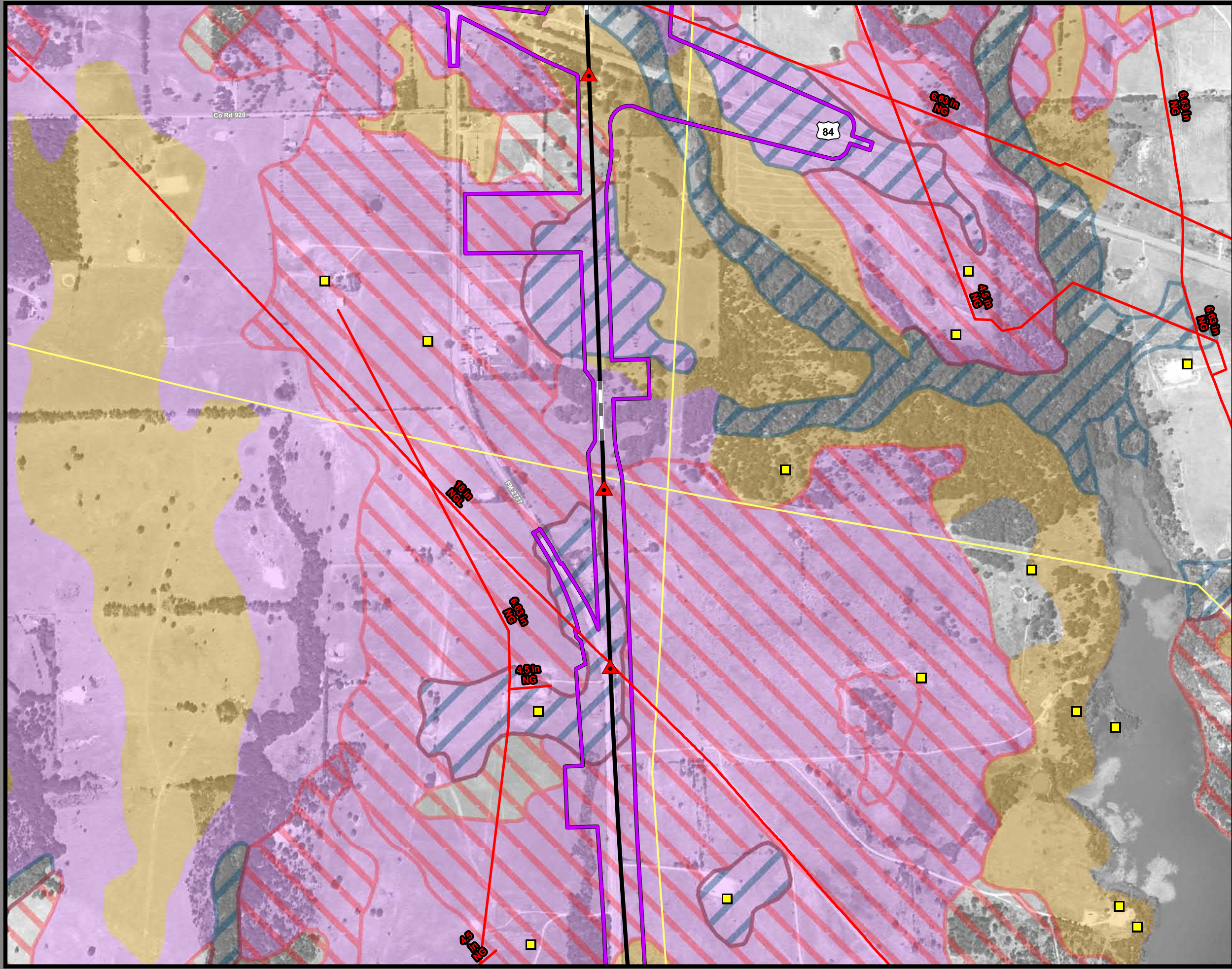
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Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well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

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





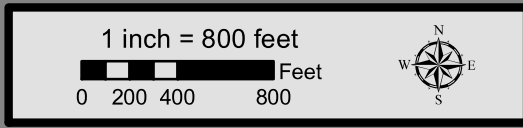
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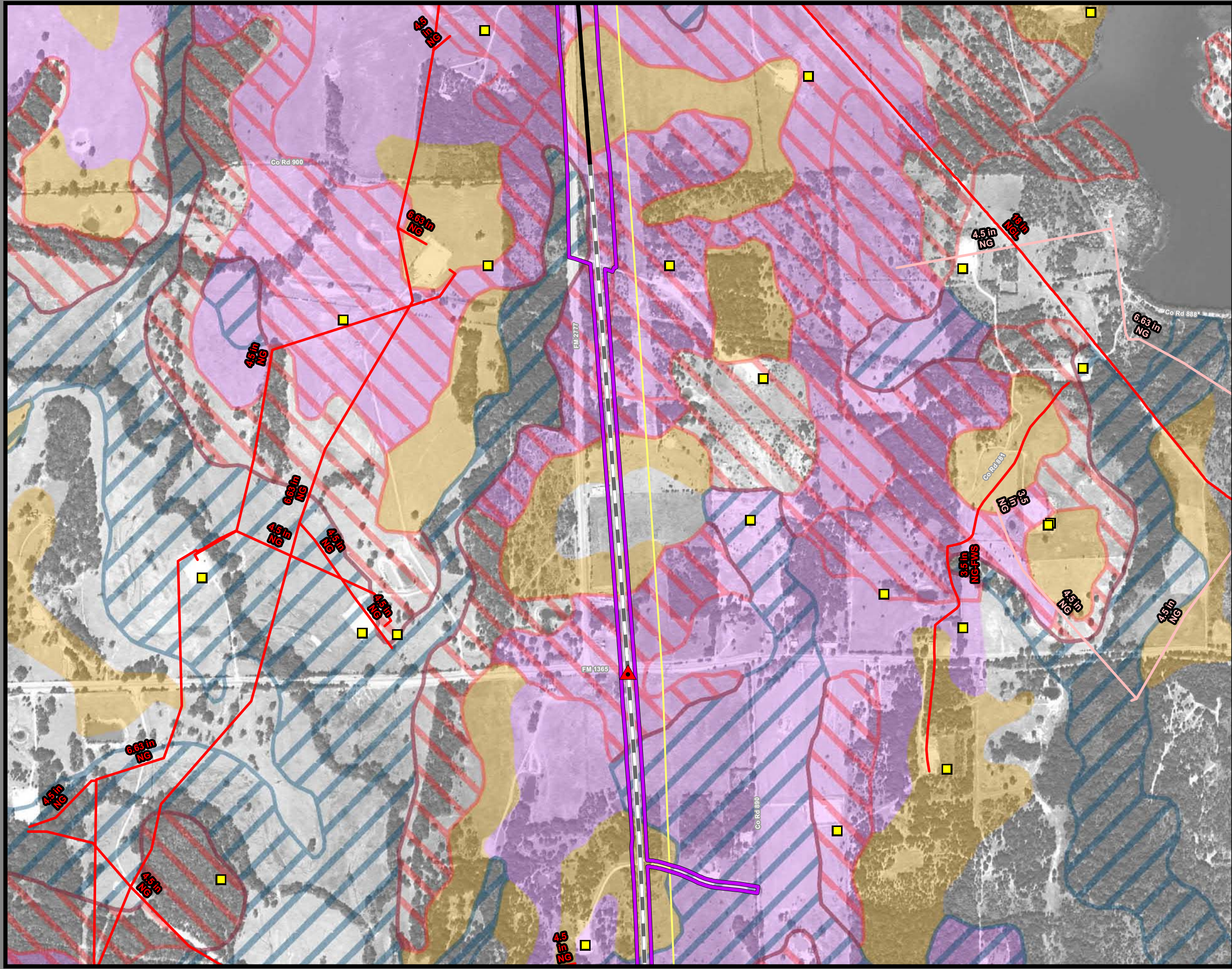
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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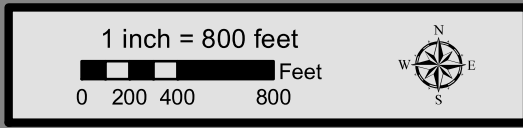
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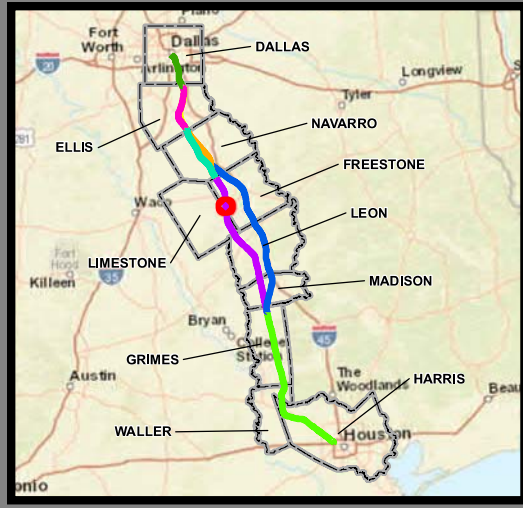
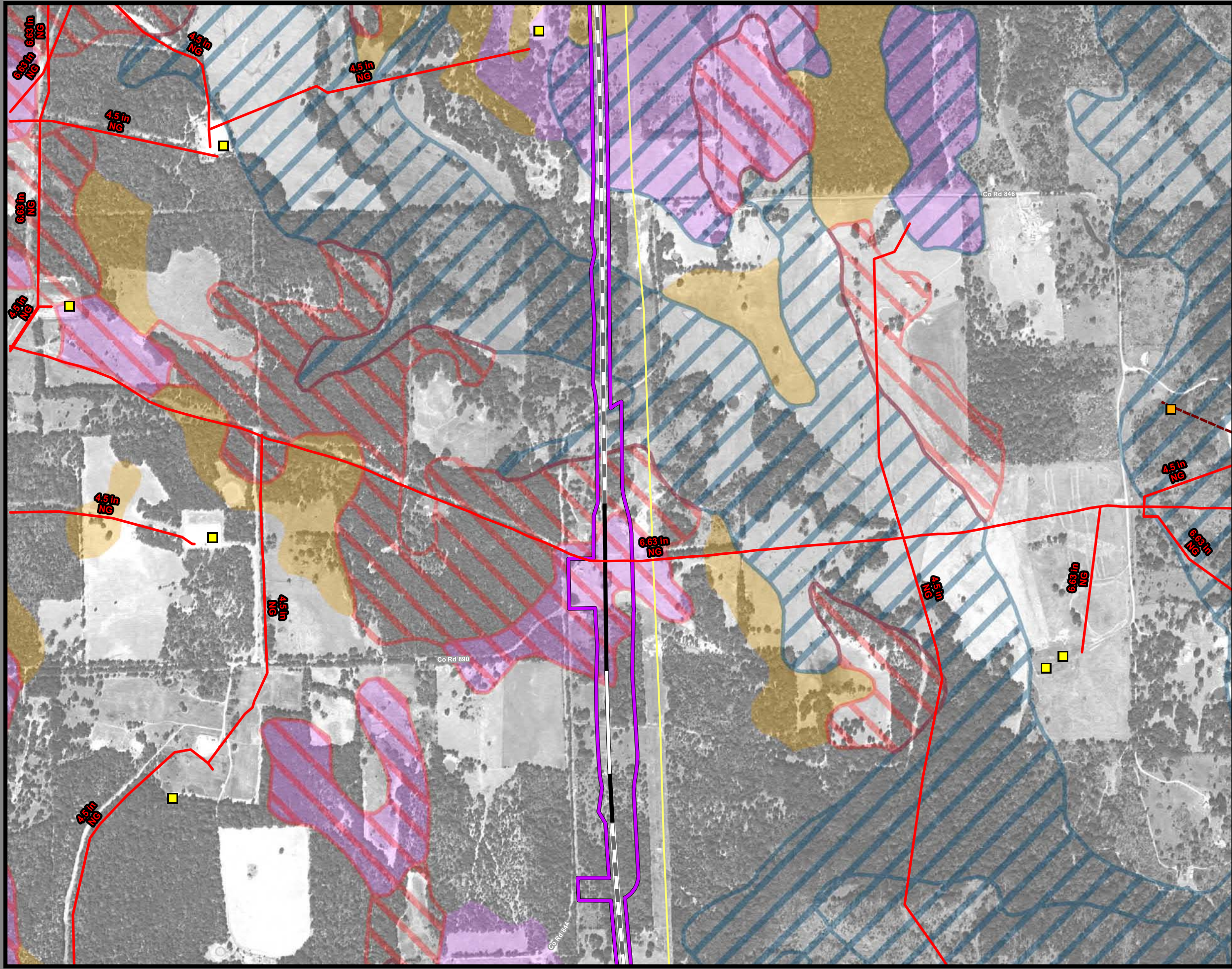
Legend

Limits of Disturbance	Utilities
Segment 1	Mine
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Track Configuration	Oil/Gas Pipelines
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Cut	
County Boundary	Soils
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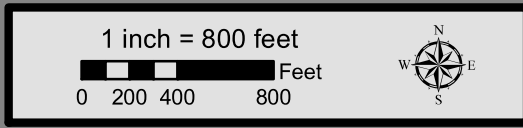
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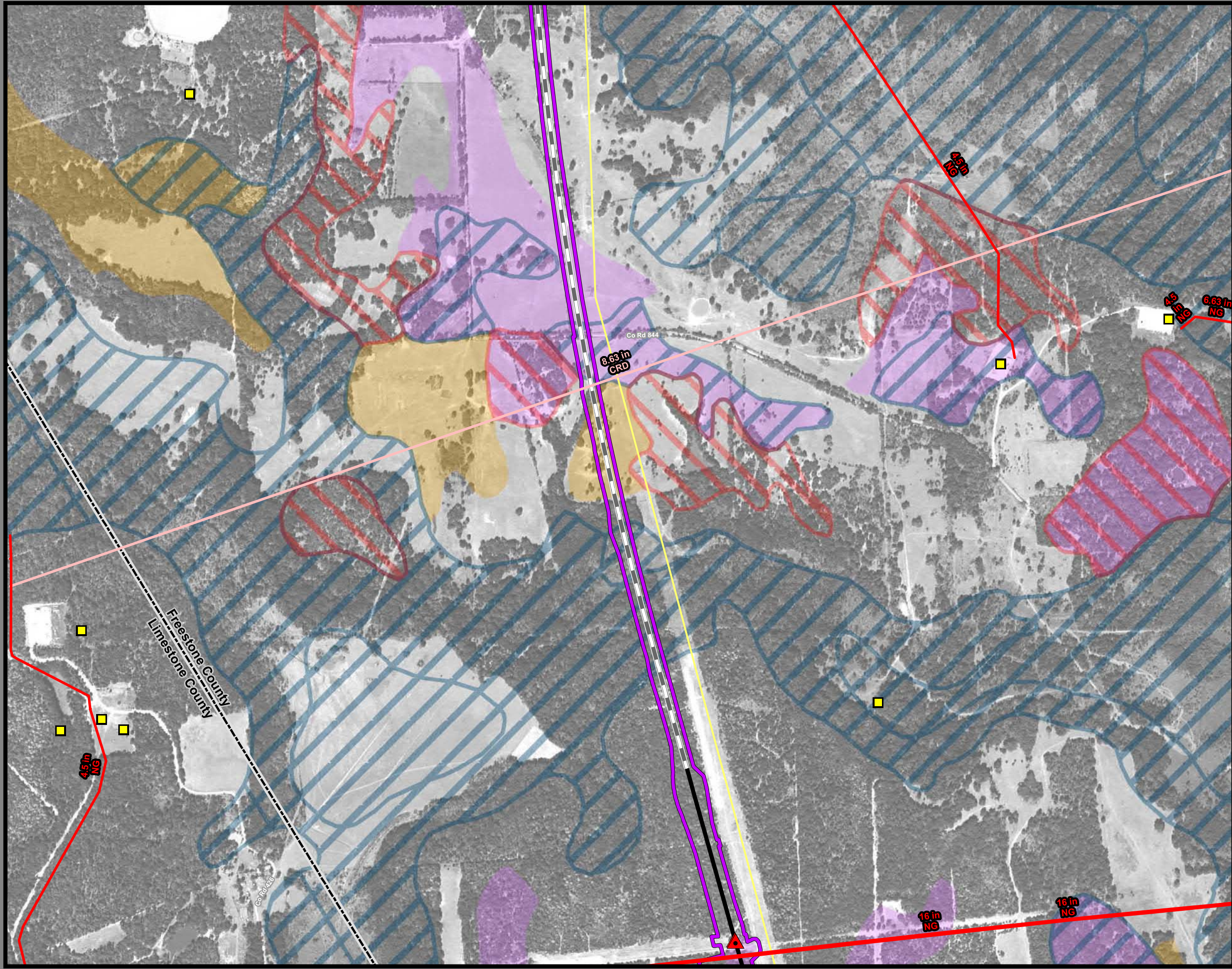
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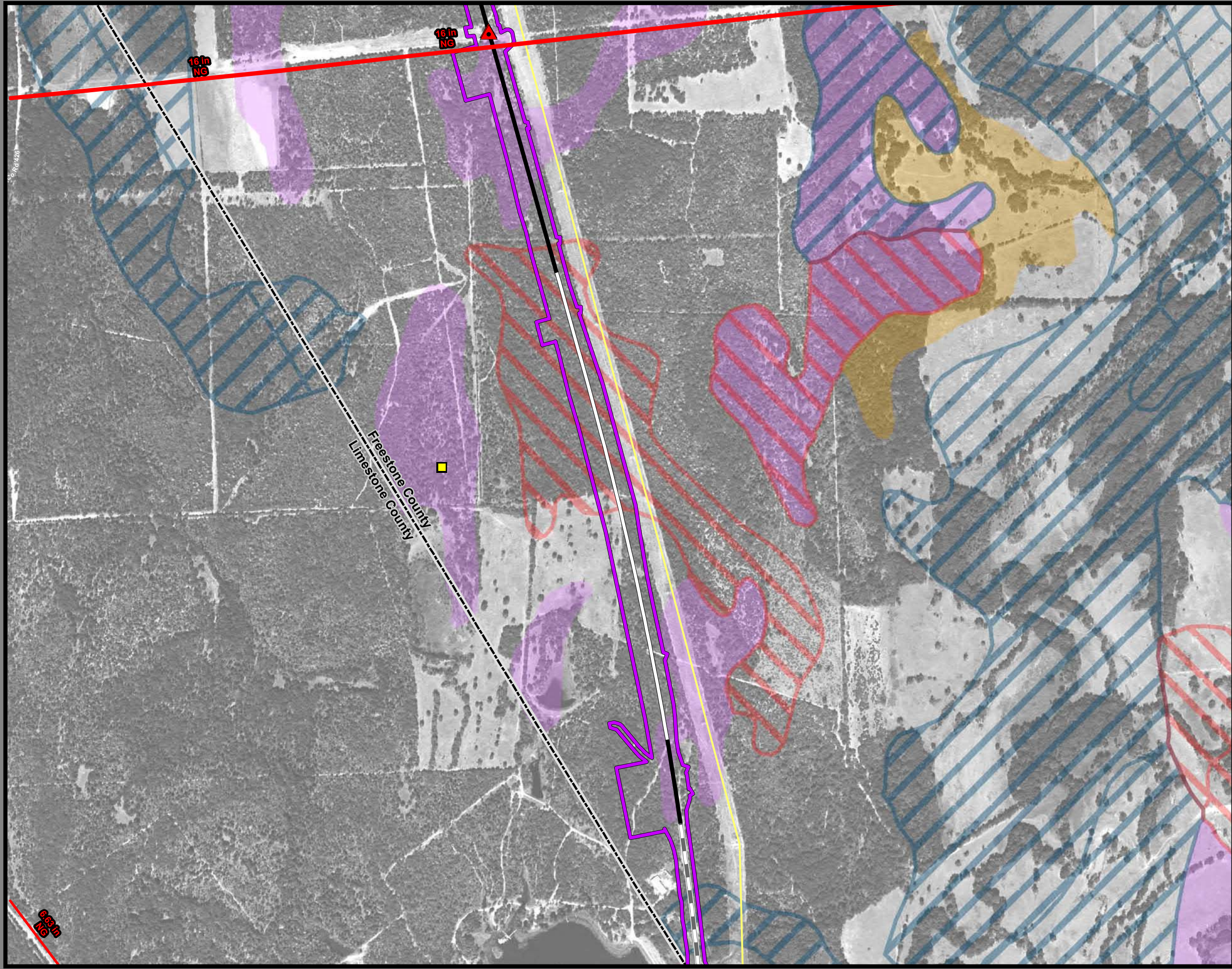
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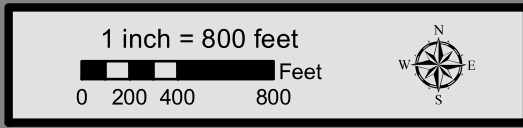
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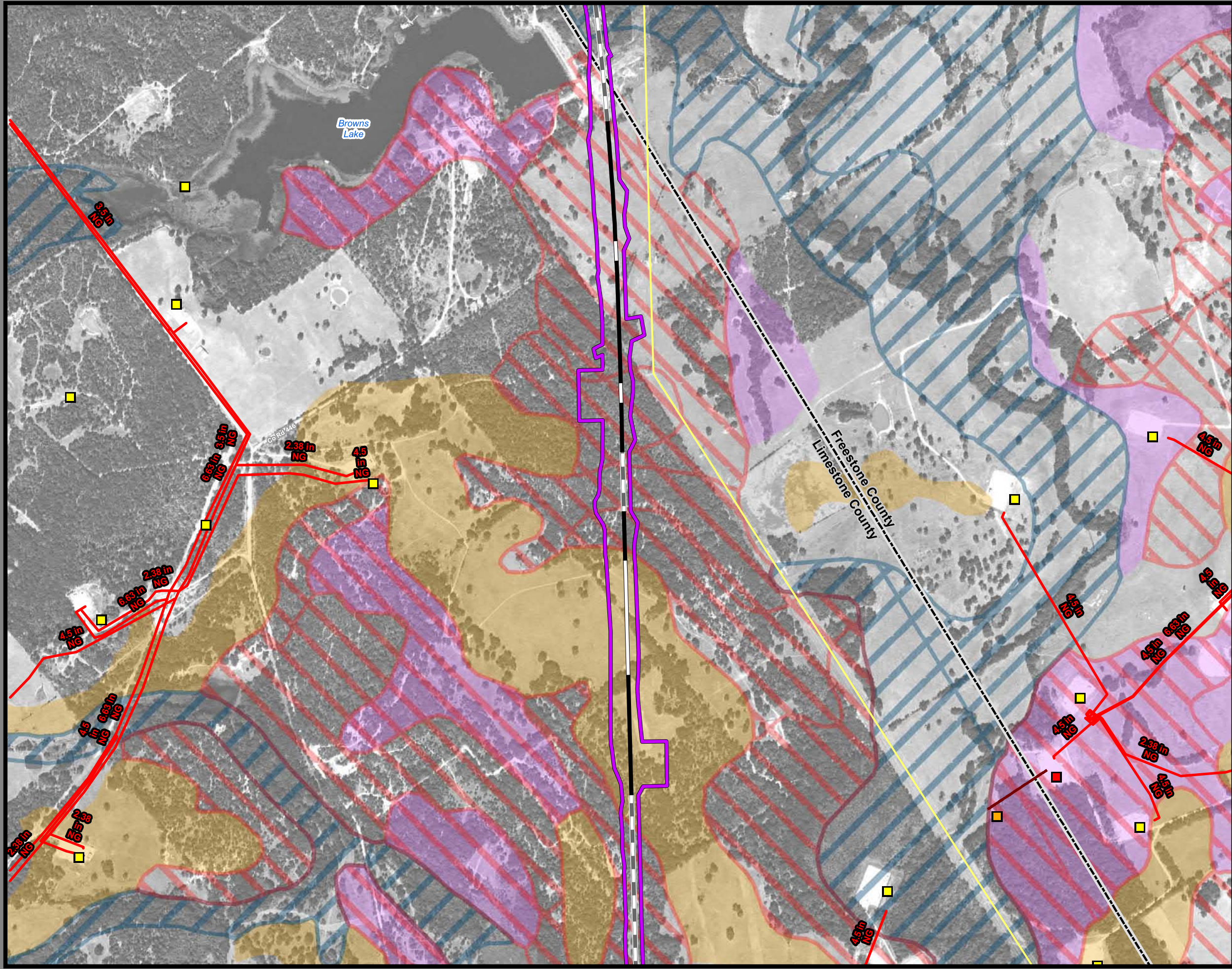
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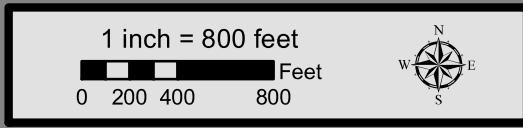
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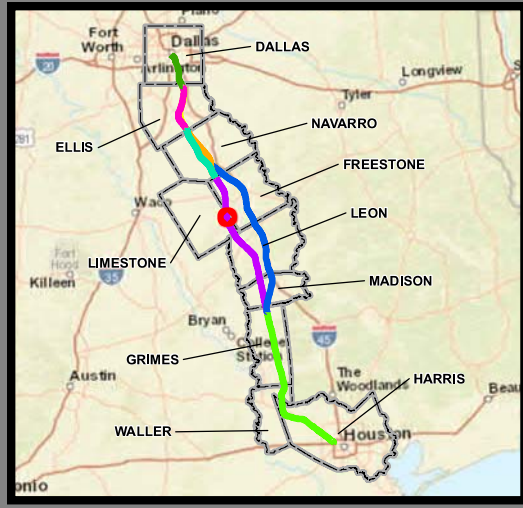
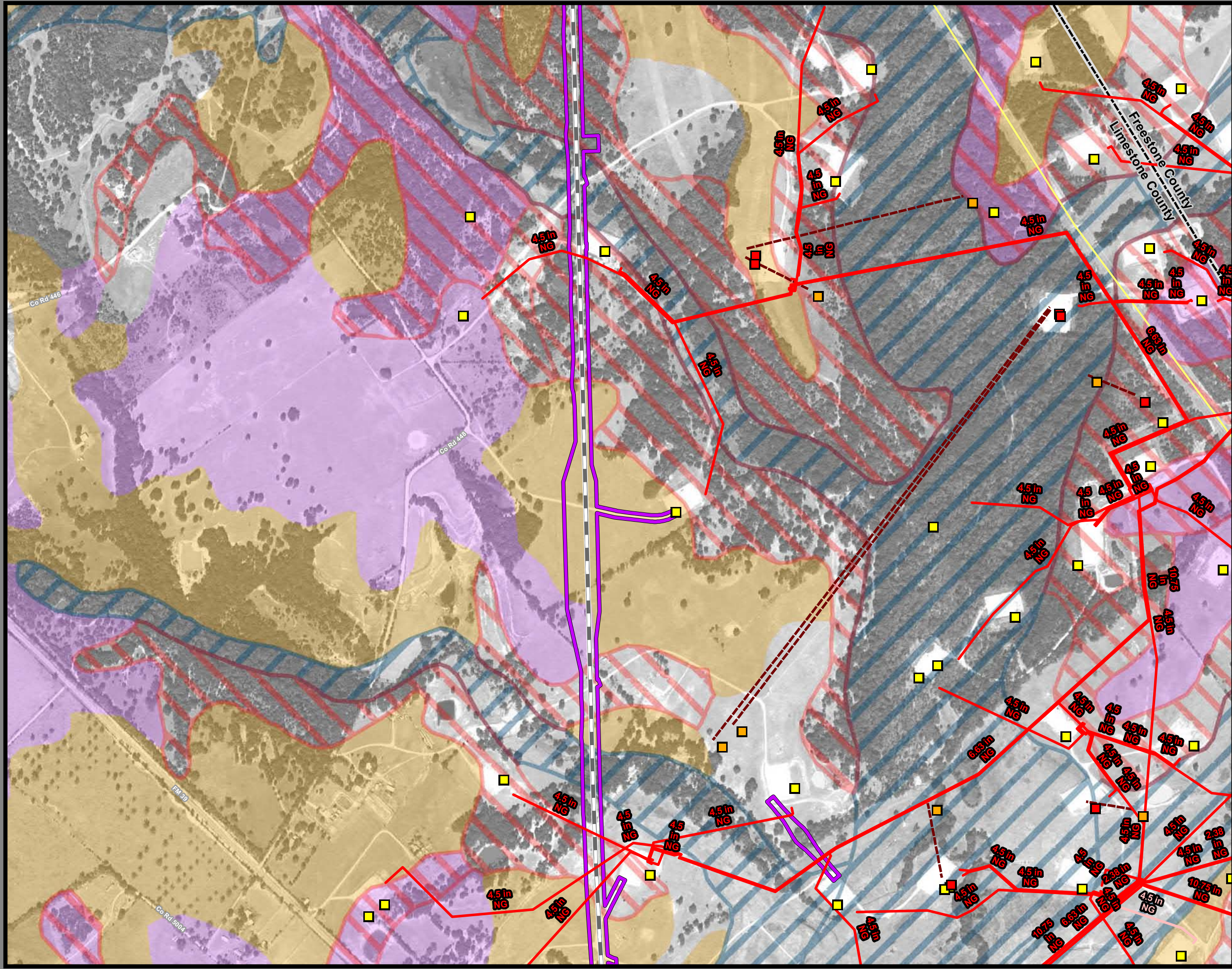
Legend

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Segment 1	Mine
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Segment 5	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
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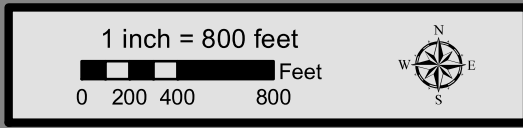
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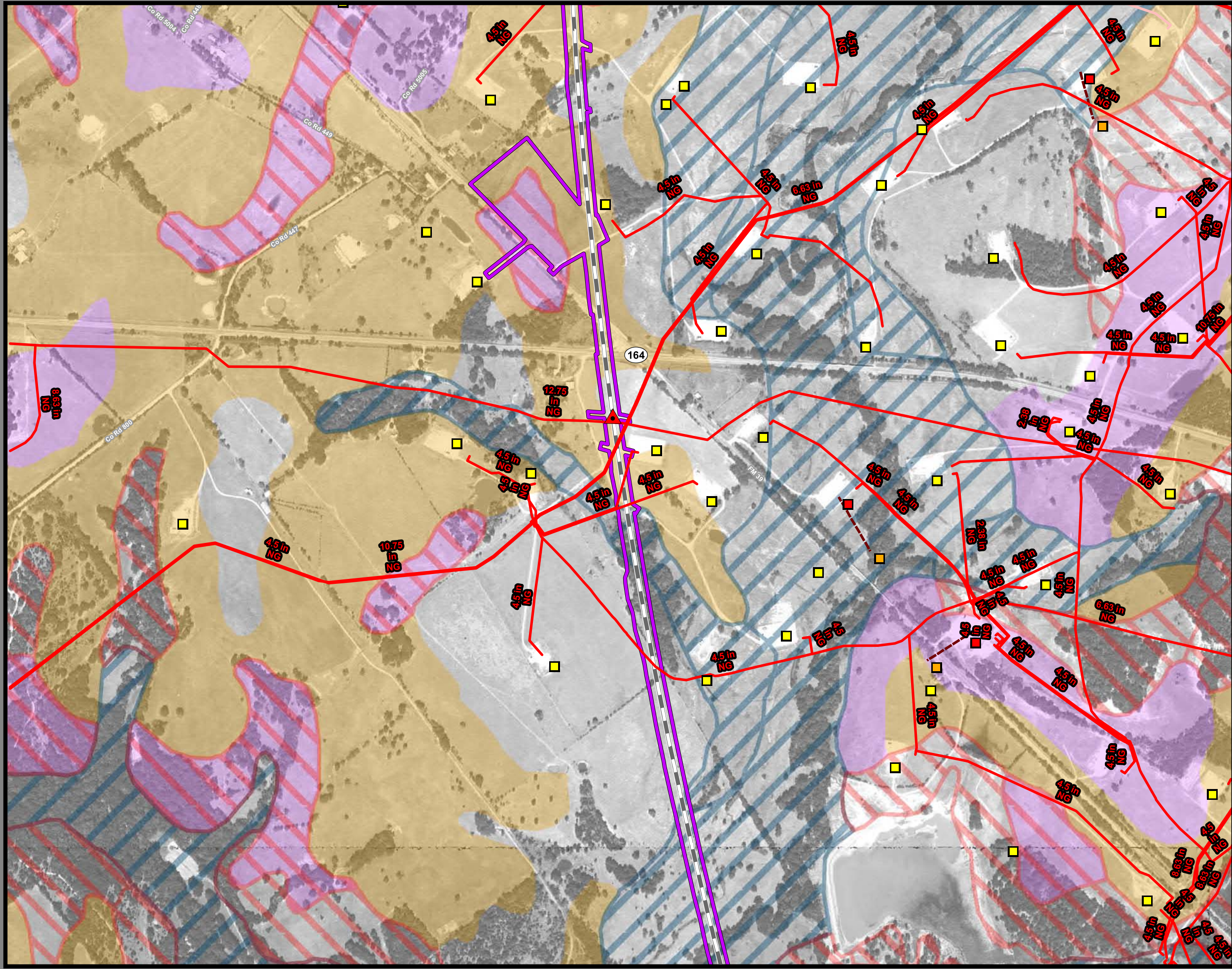
Legend

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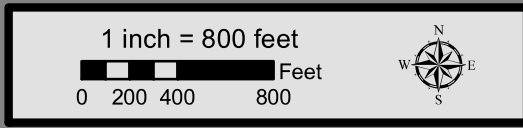
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Segment 4
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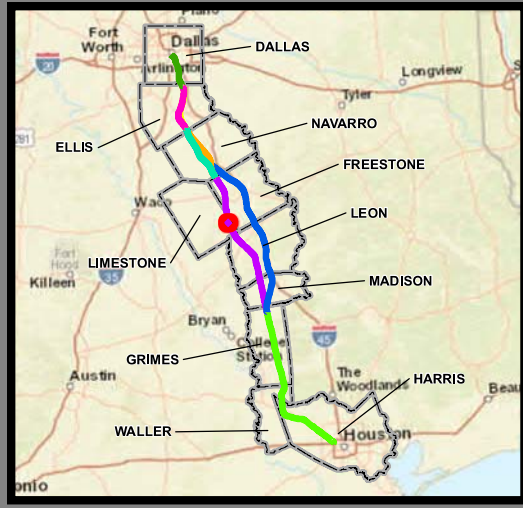
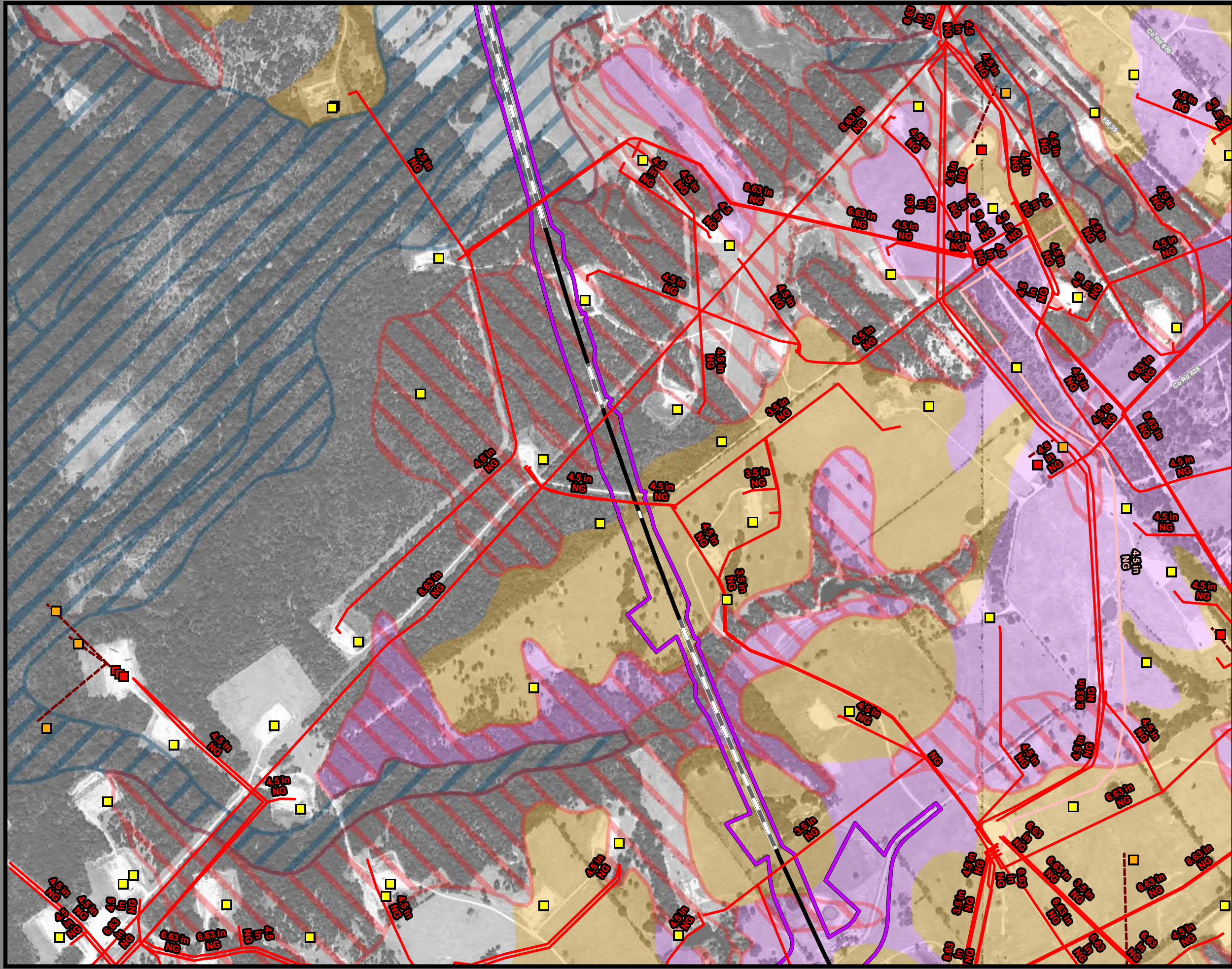
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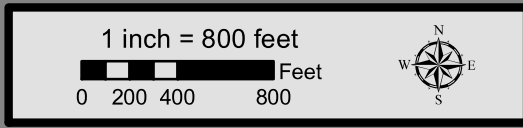
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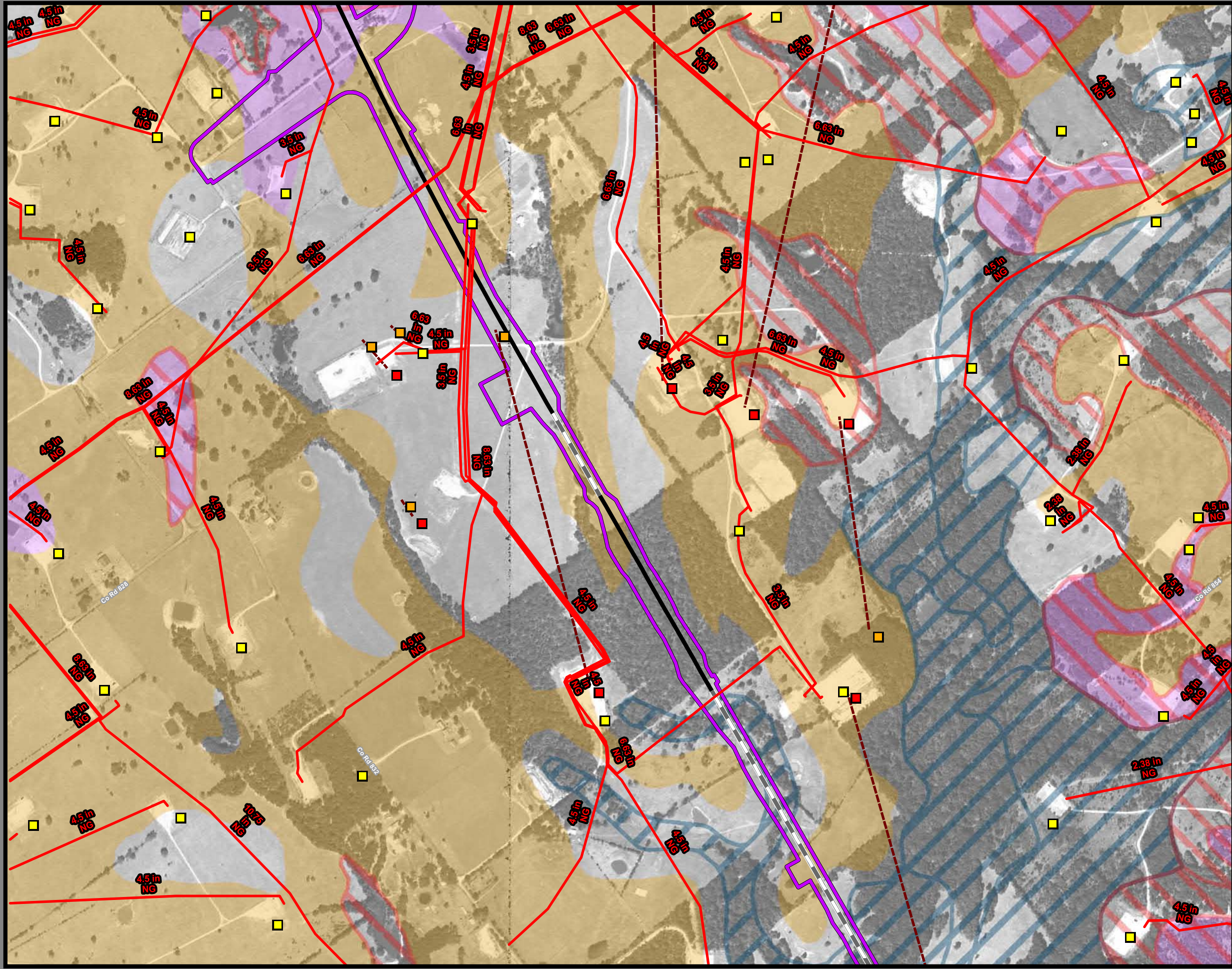
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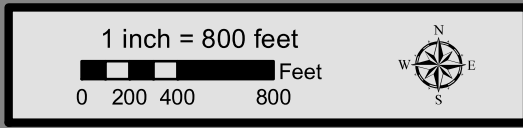
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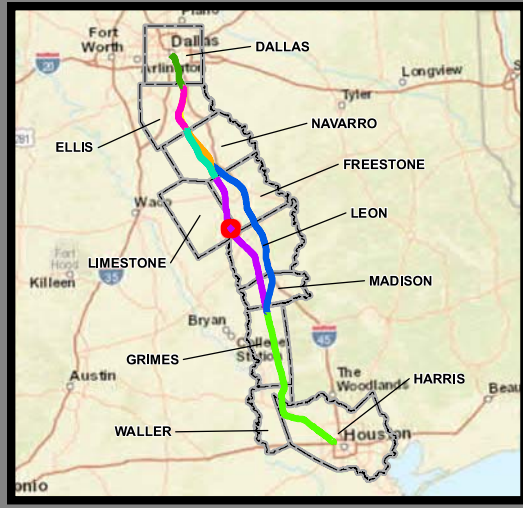
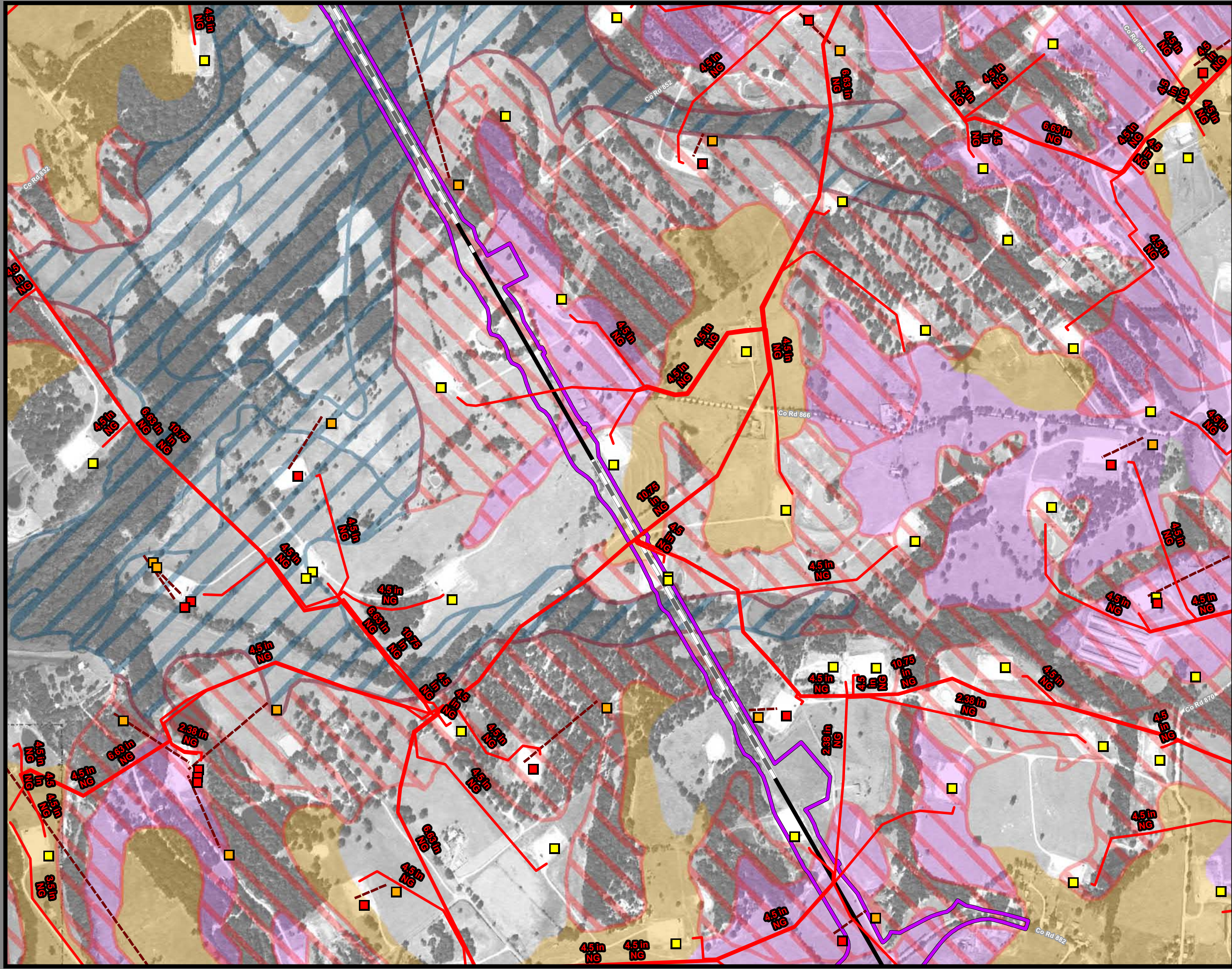
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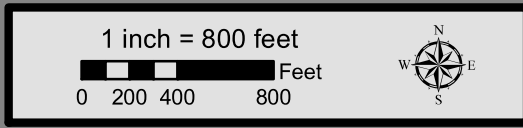
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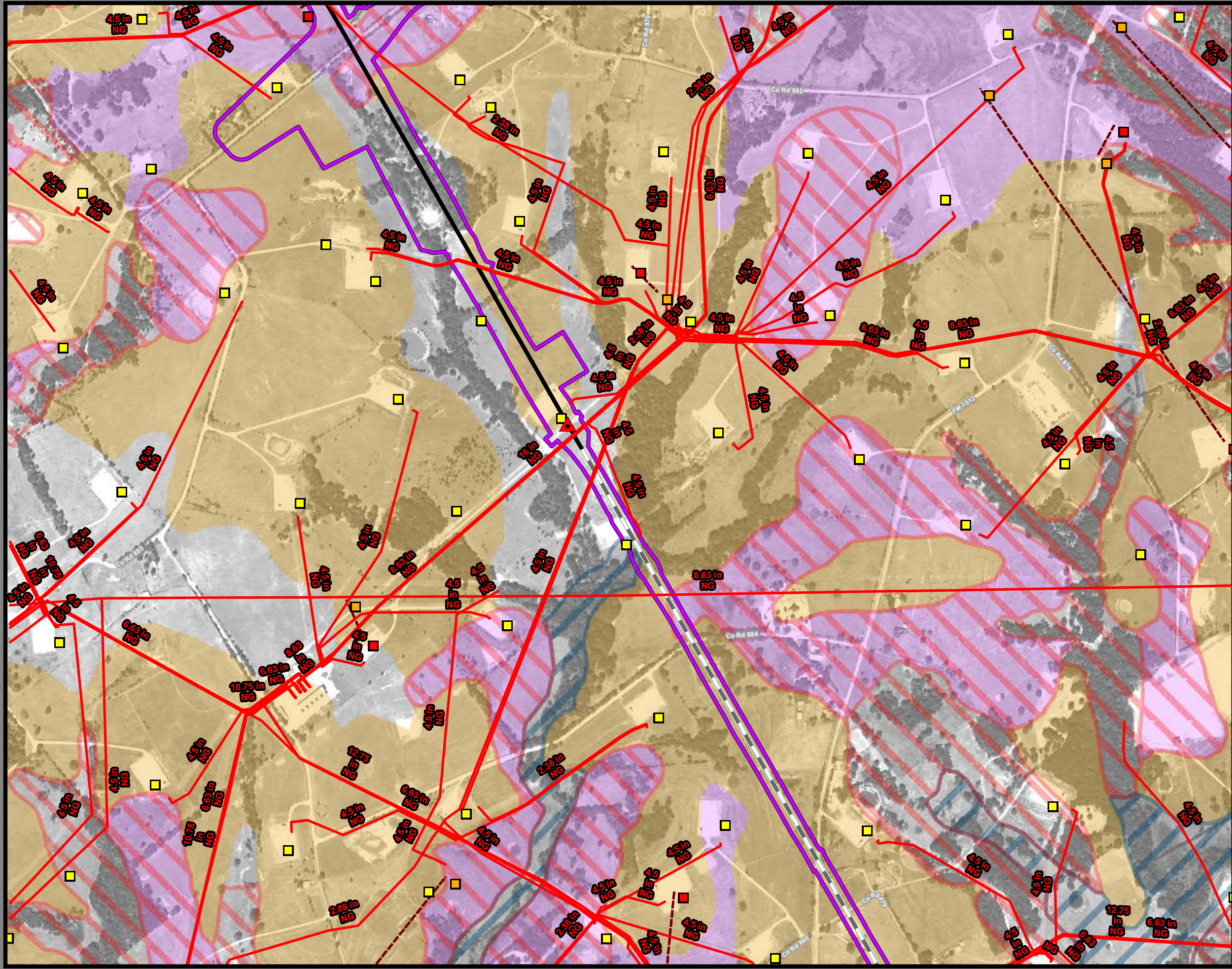
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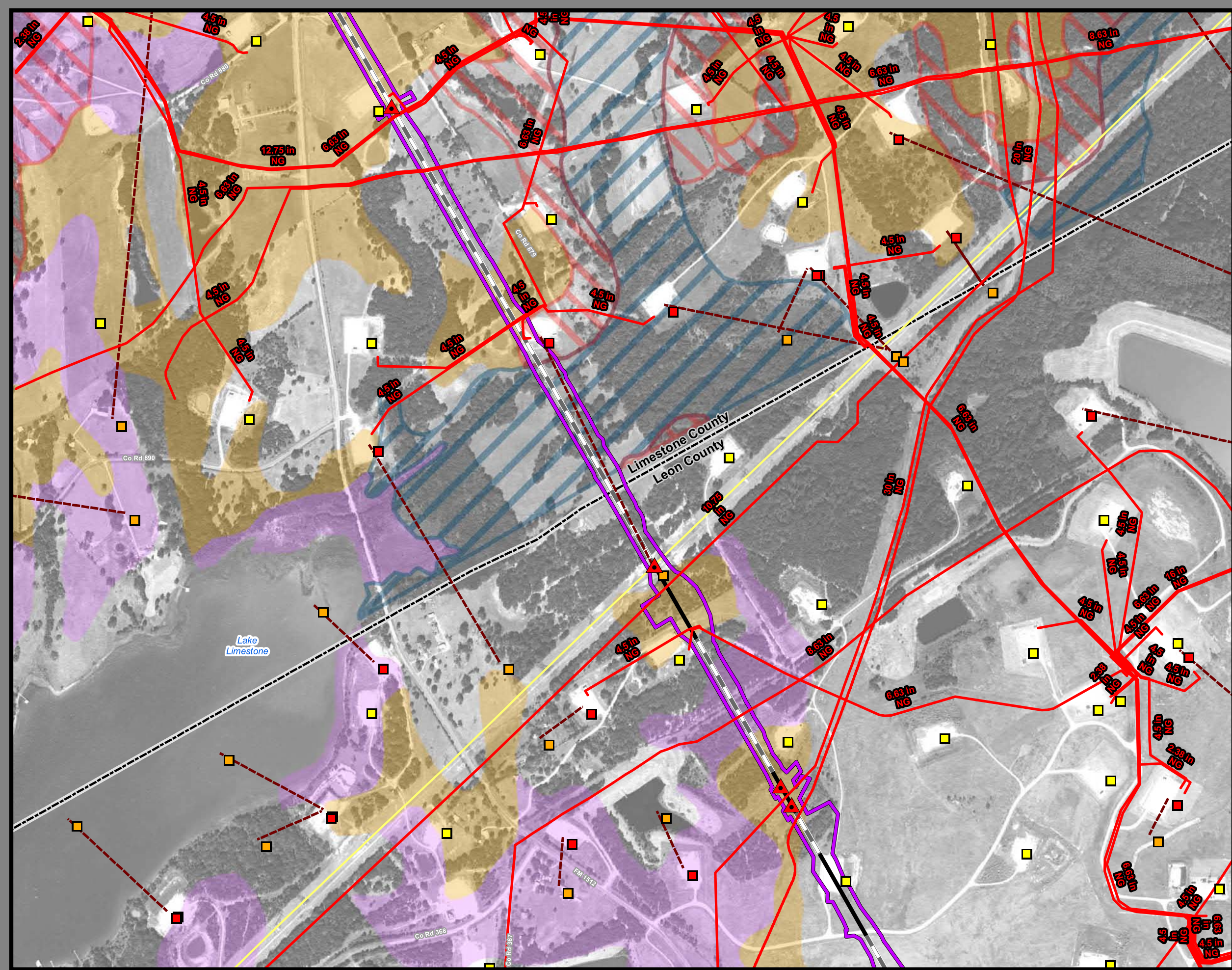
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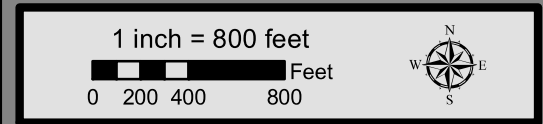
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Segment 4
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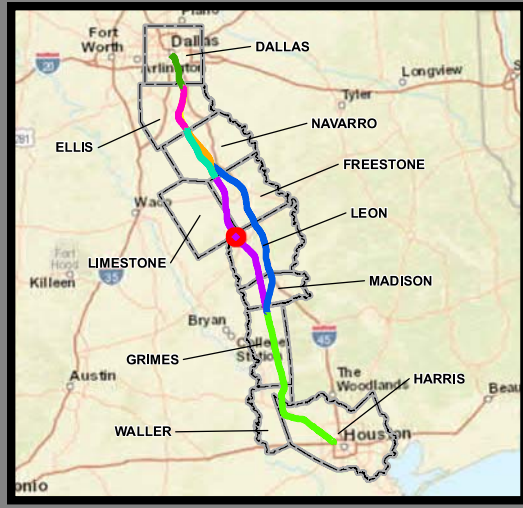
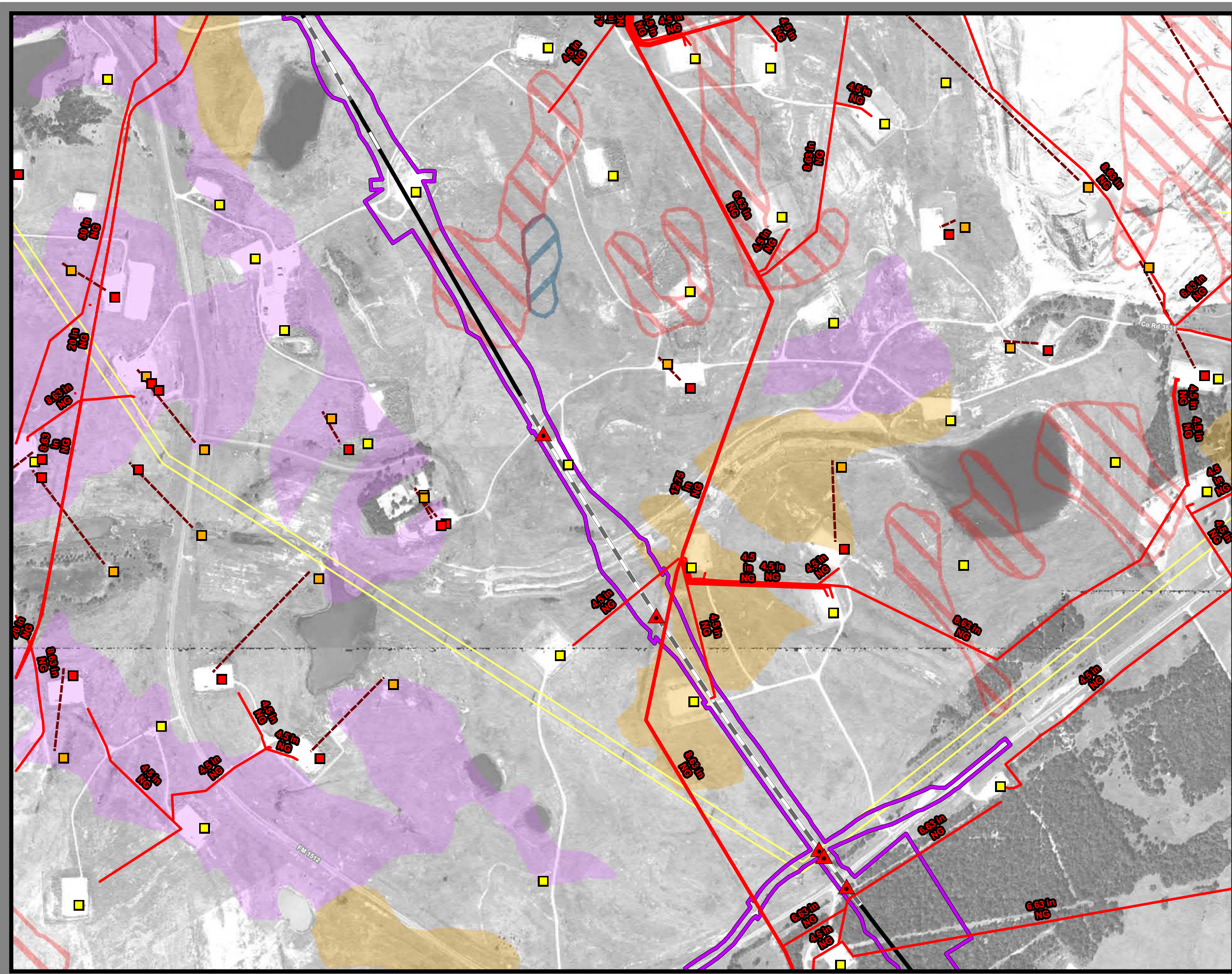
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	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





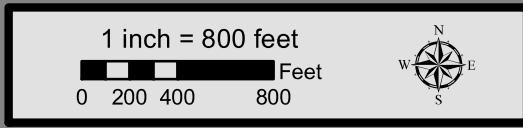
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High-Speed Rail Project
Mineral and Utility Resources
Segment 4
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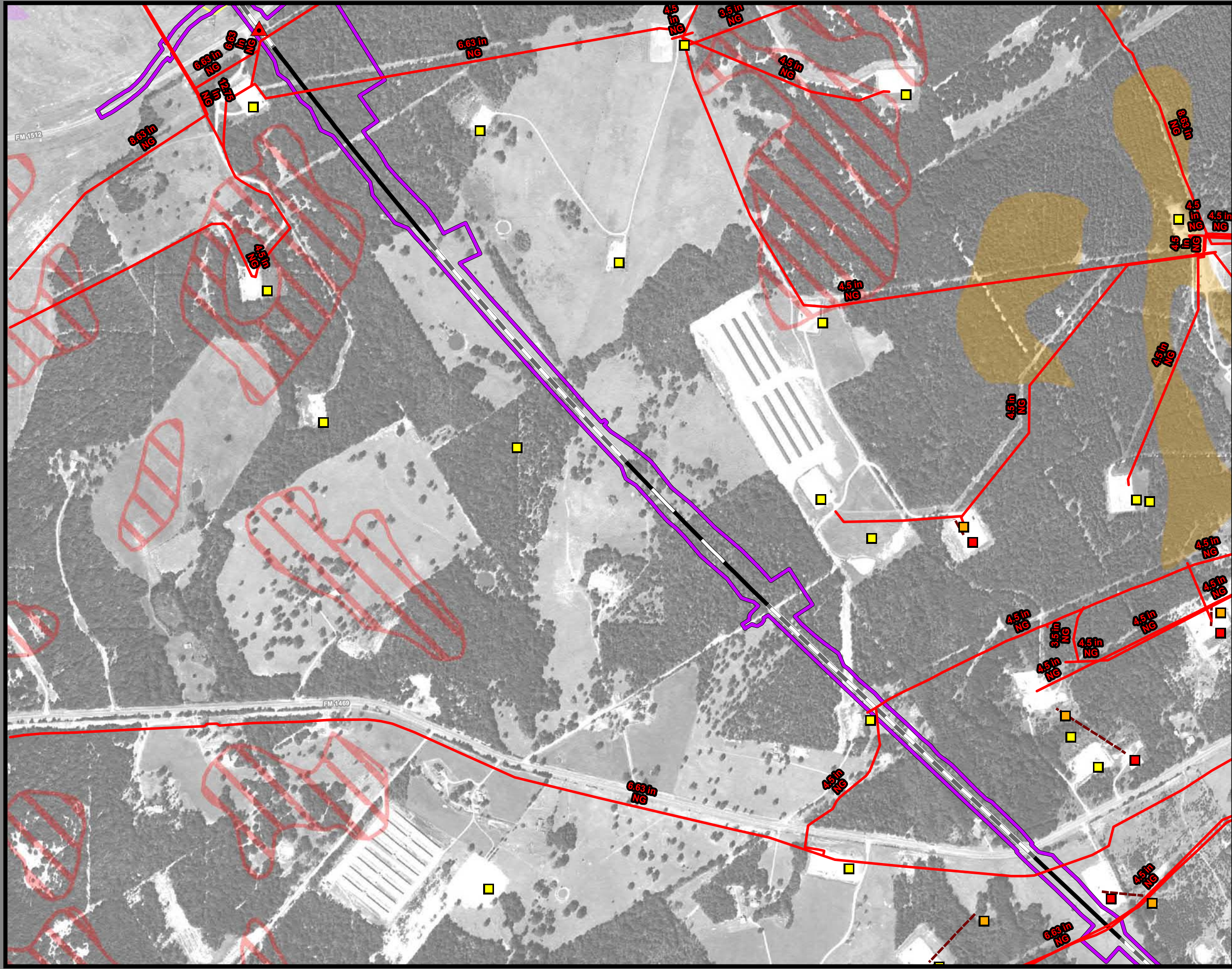
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydic
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

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Aerial Imagery: USDA NAIP 2014





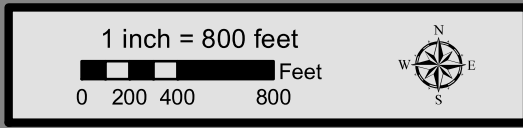
**Dallas to Houston
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Segment 4
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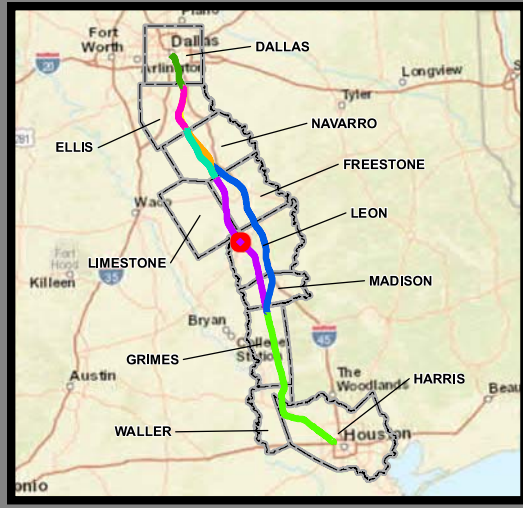
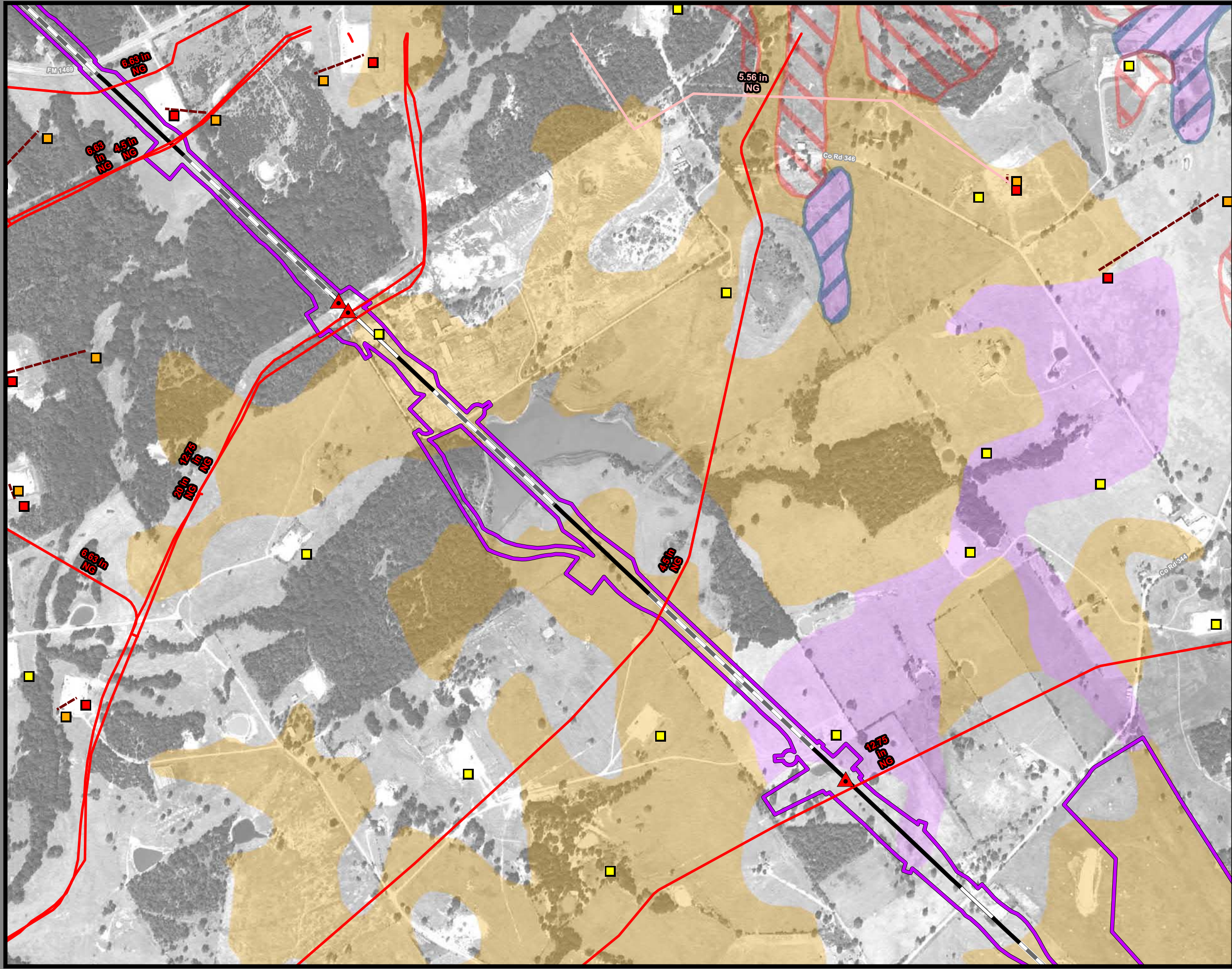
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydic
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

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Aerial Imagery: USDA NAIP 2014





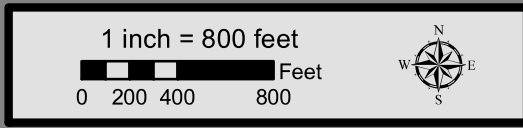
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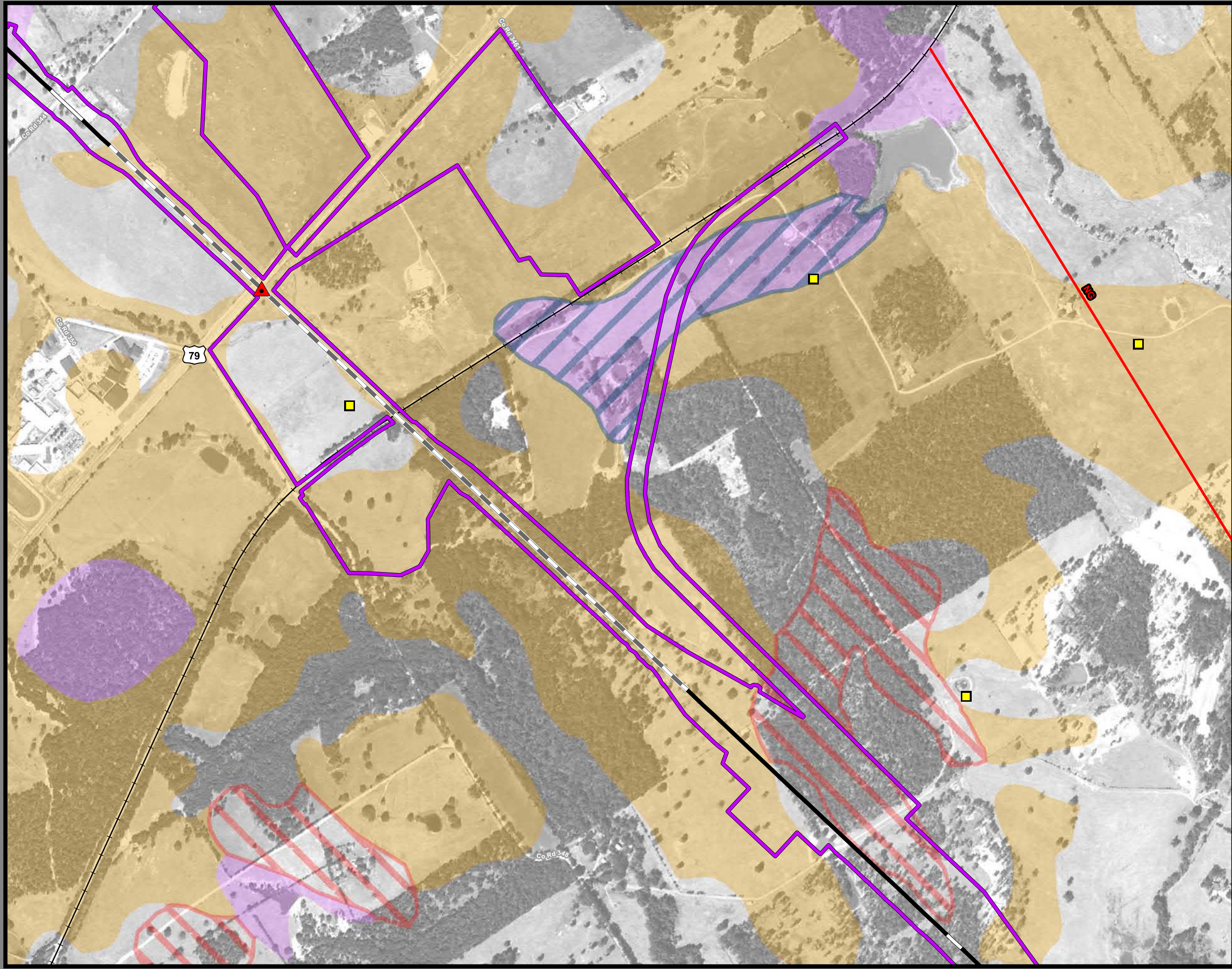
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erodible
Railroad	Hydic
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

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Aerial Imagery: USDA NAIP 2014





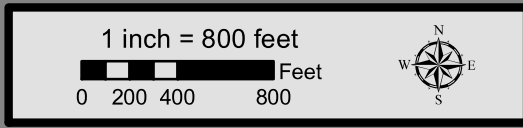
**Dallas to Houston
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Mineral and Utility Resources
Segment 4
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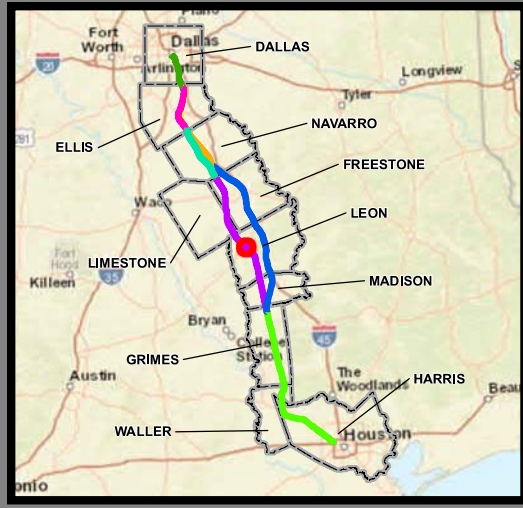
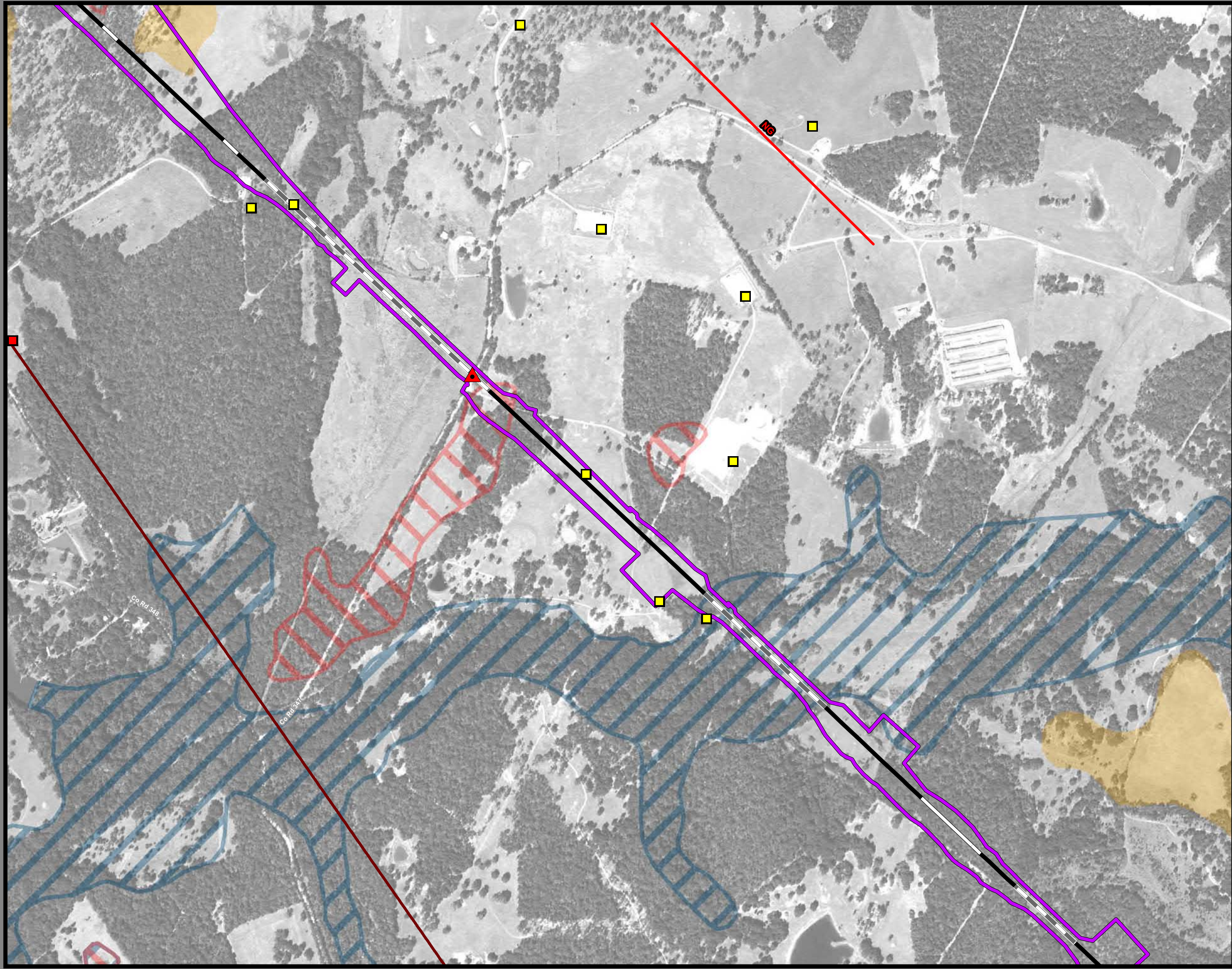
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
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Aerial Imagery: USDA NAIP 2014





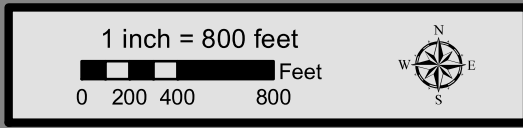
**Dallas to Houston
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Mineral and Utility Resources
Segment 4
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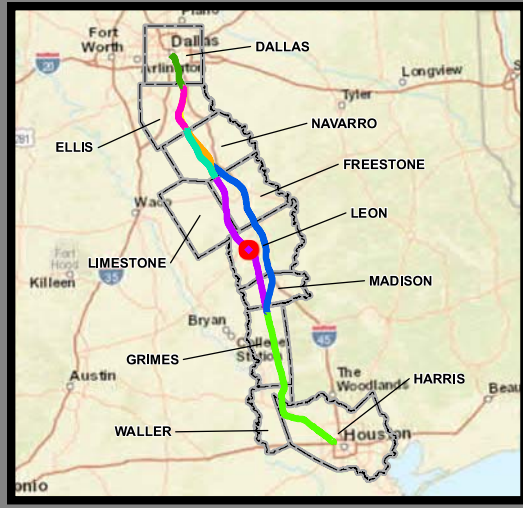
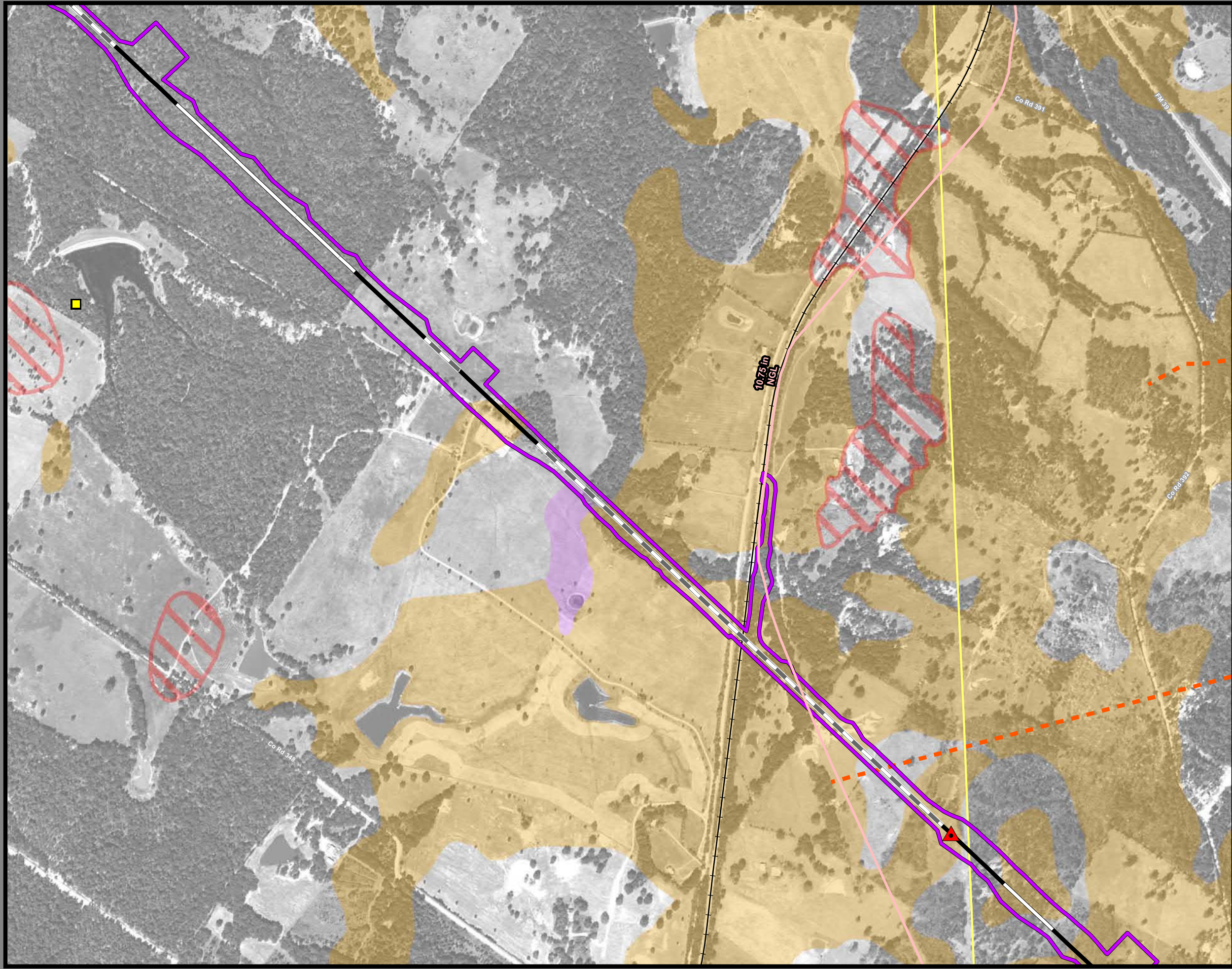
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2014





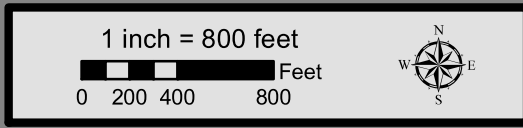
**Dallas to Houston
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Segment 4
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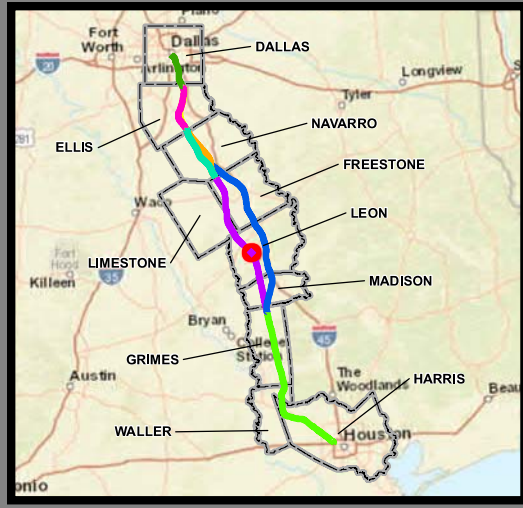
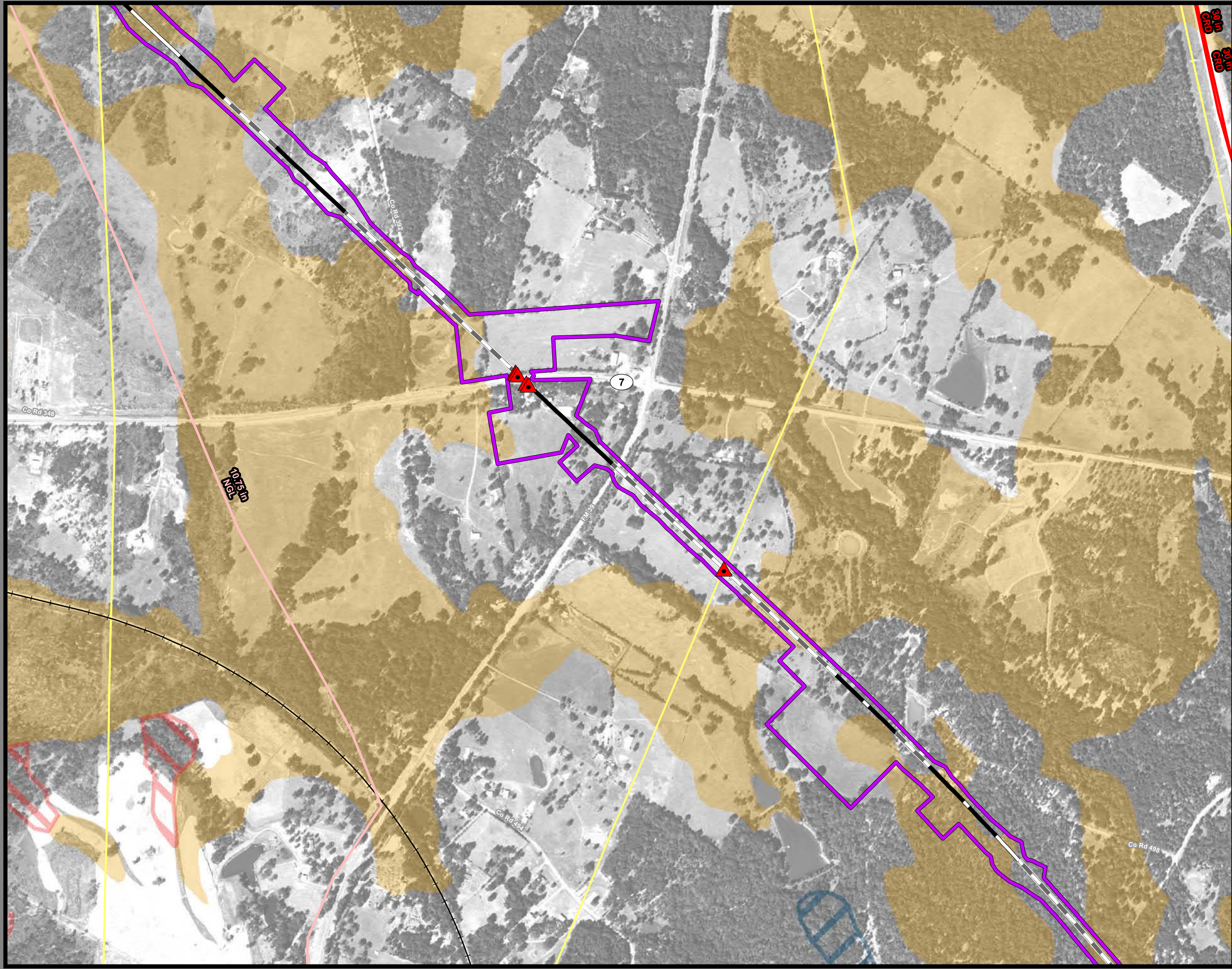
Legend

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
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	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
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High-Speed Rail Project
Mineral and Utility Resources
Segment 4
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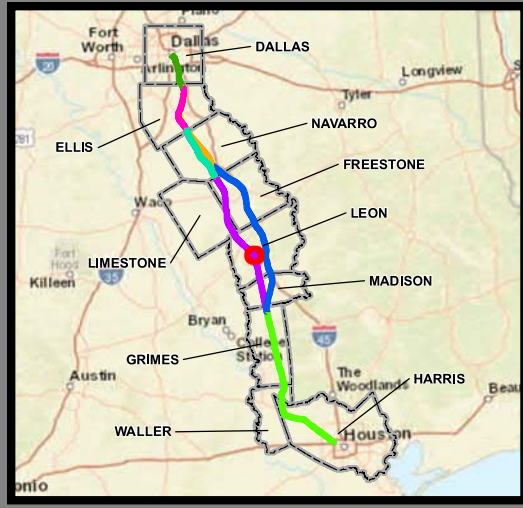
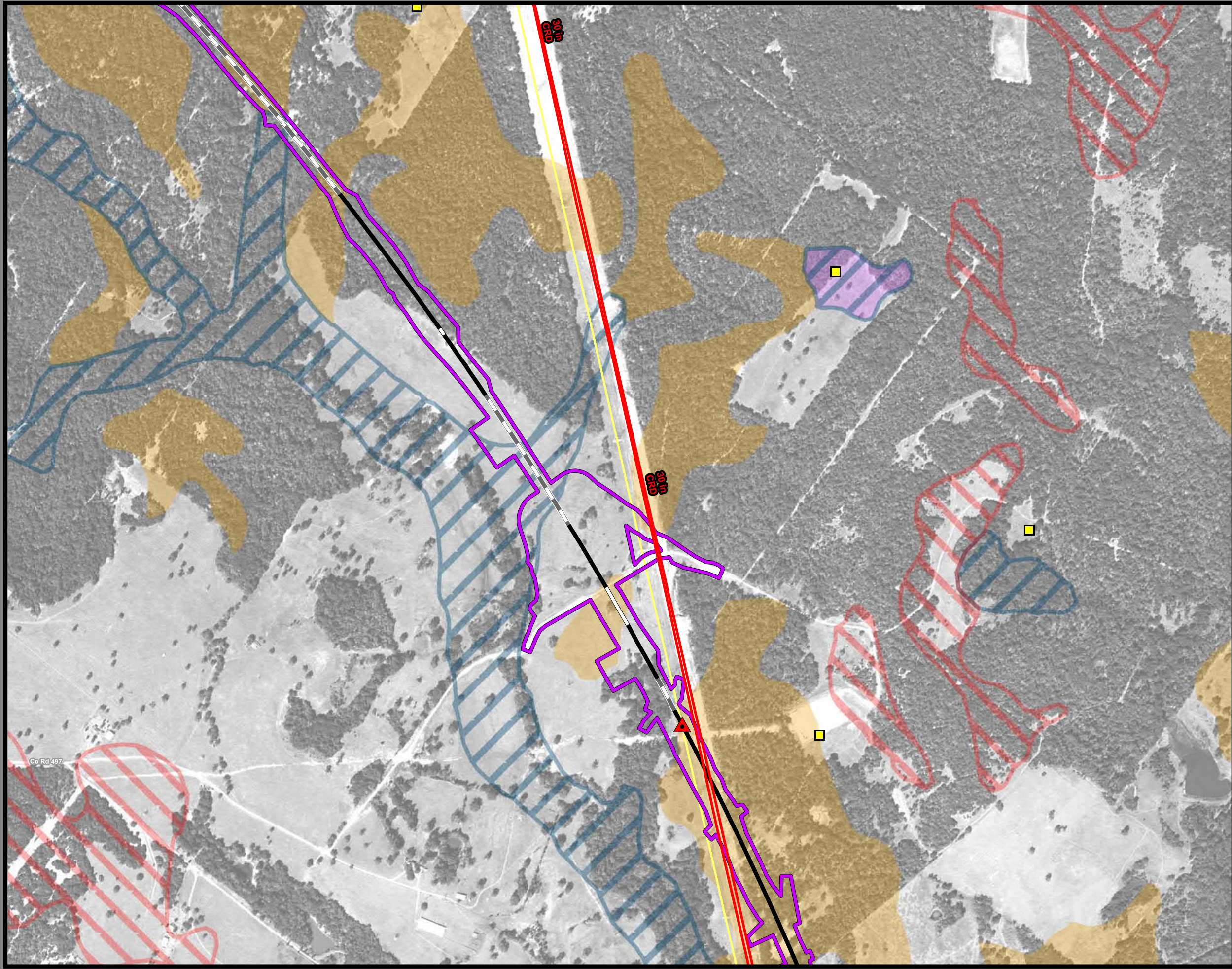
Legend

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

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Aerial Imagery: USDA NAIP 2014





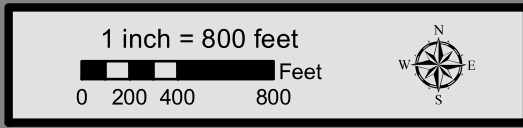
**Dallas to Houston
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Mineral and Utility Resources
Segment 4
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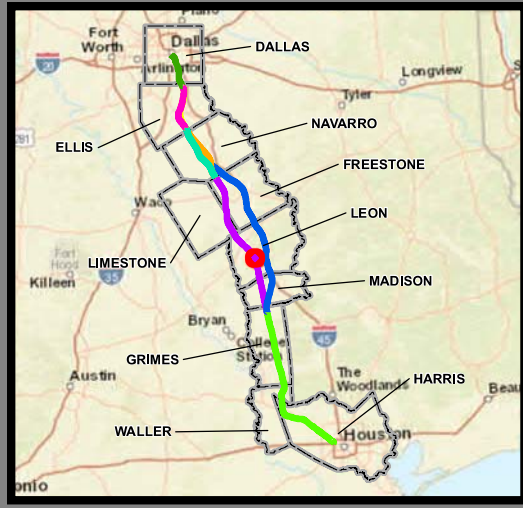
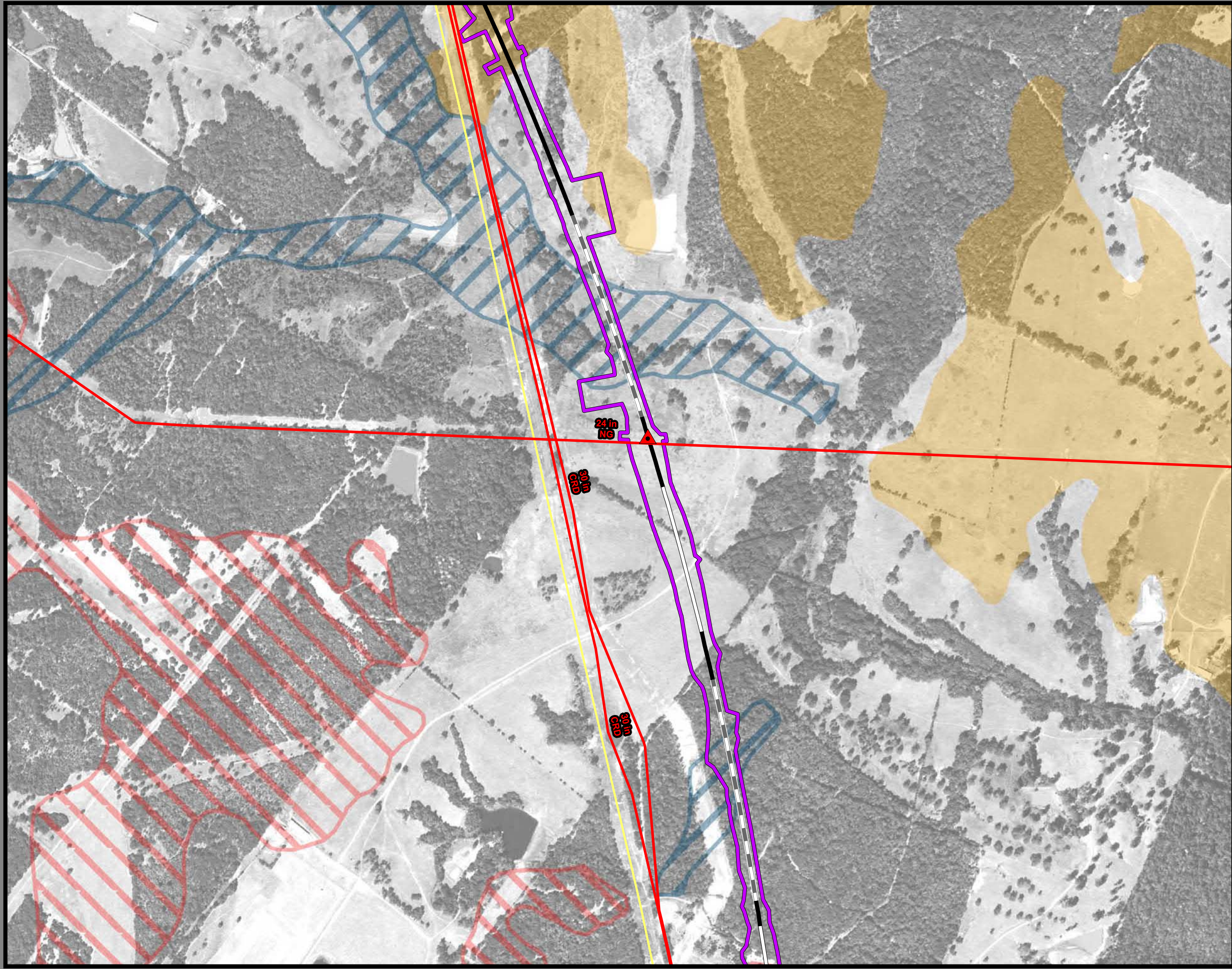
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
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Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-P - Y-Grade Products

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High-Speed Rail Project
Mineral and Utility Resources
Segment 4
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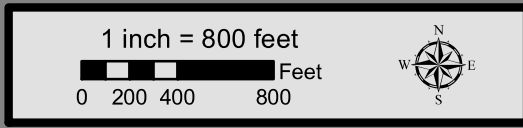
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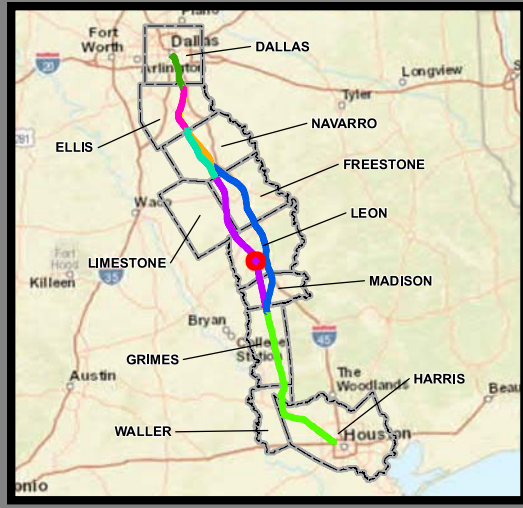
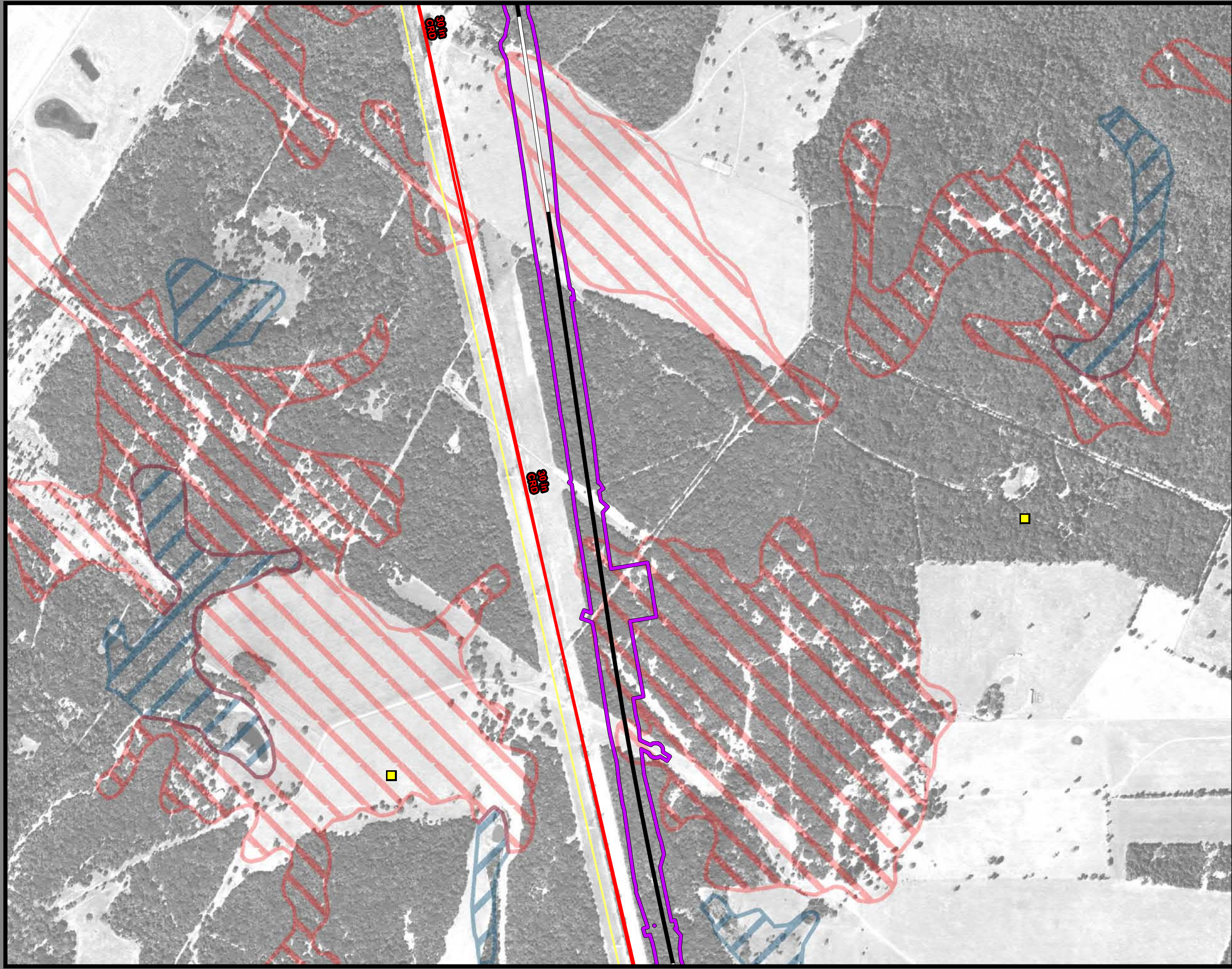
Limits of Disturbance	Utilities
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	Oil/Gas Wells
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
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 131.

Abbreviated Pipeline Labels:
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Aerial Imagery: USDA NAIP 2014





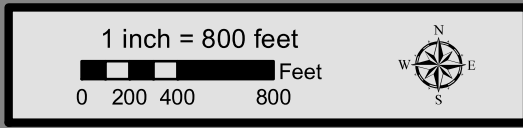
**Dallas to Houston
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Segment 4
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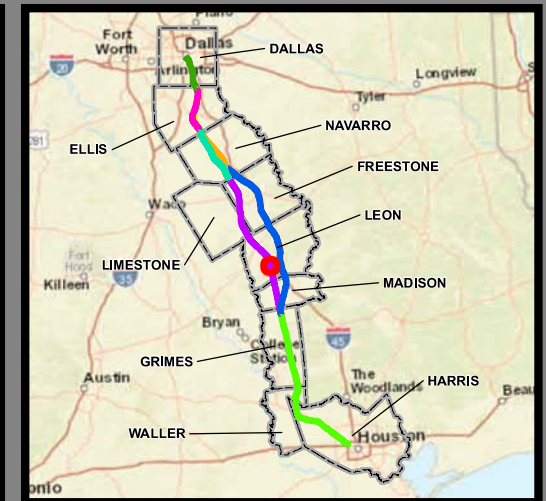
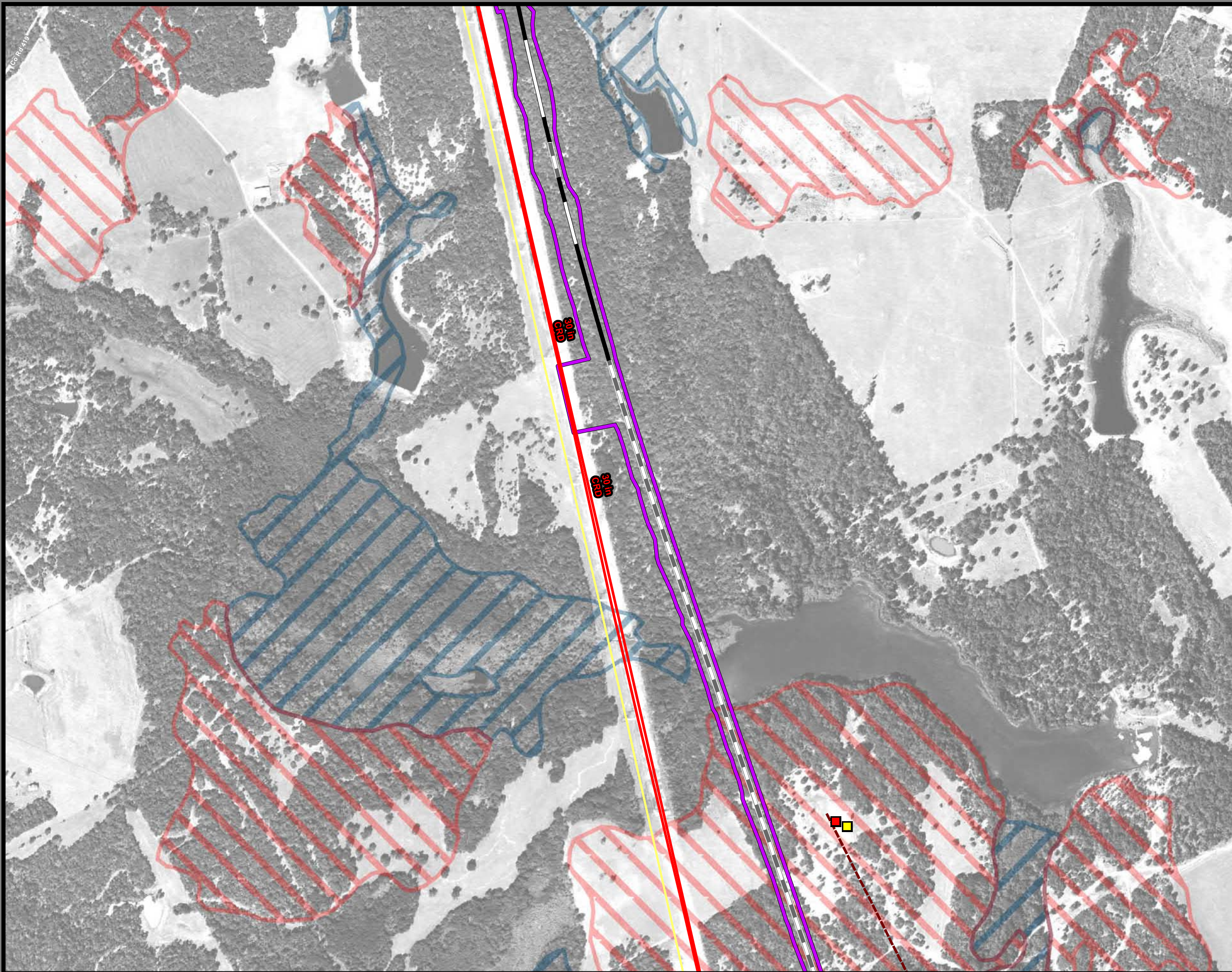
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2014





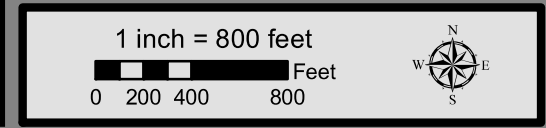
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Segment 4
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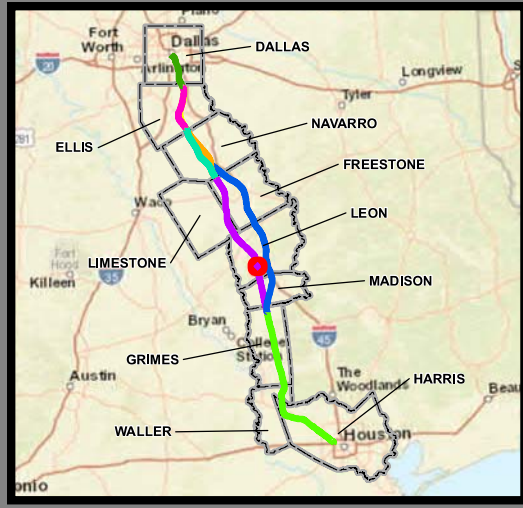
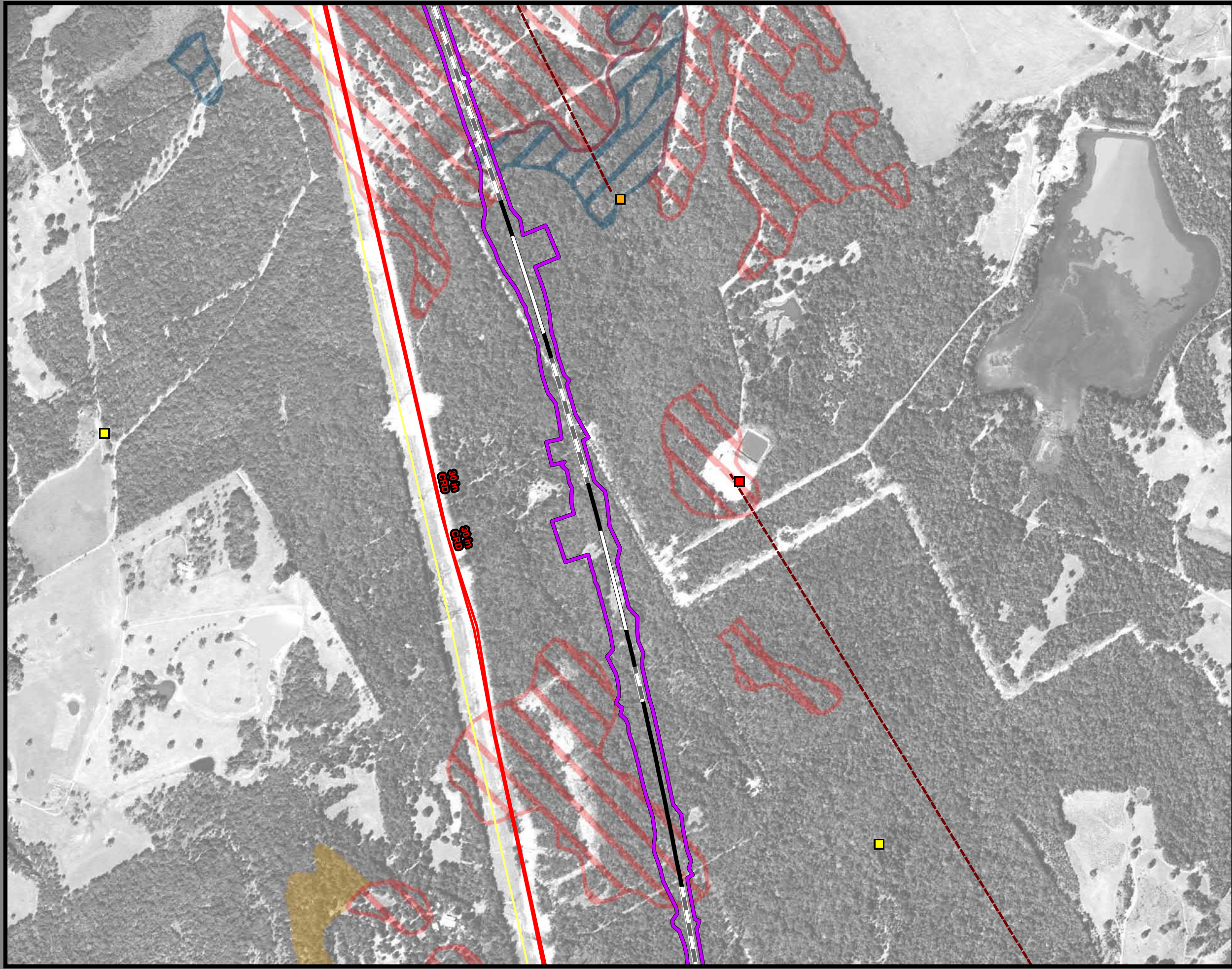
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Aerial Imagery: USDA NAIP 2014





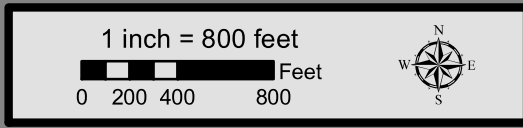
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Mineral and Utility Resources
Segment 4
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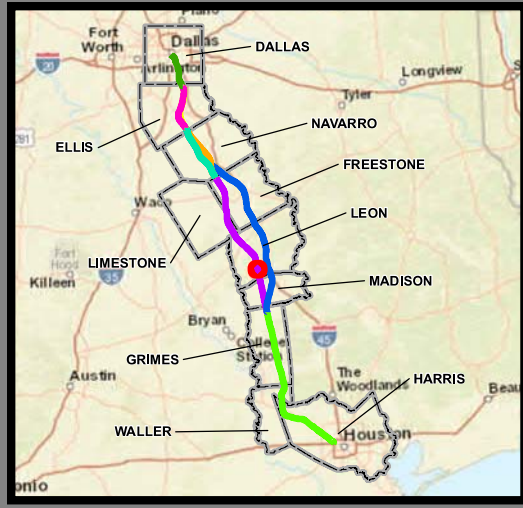
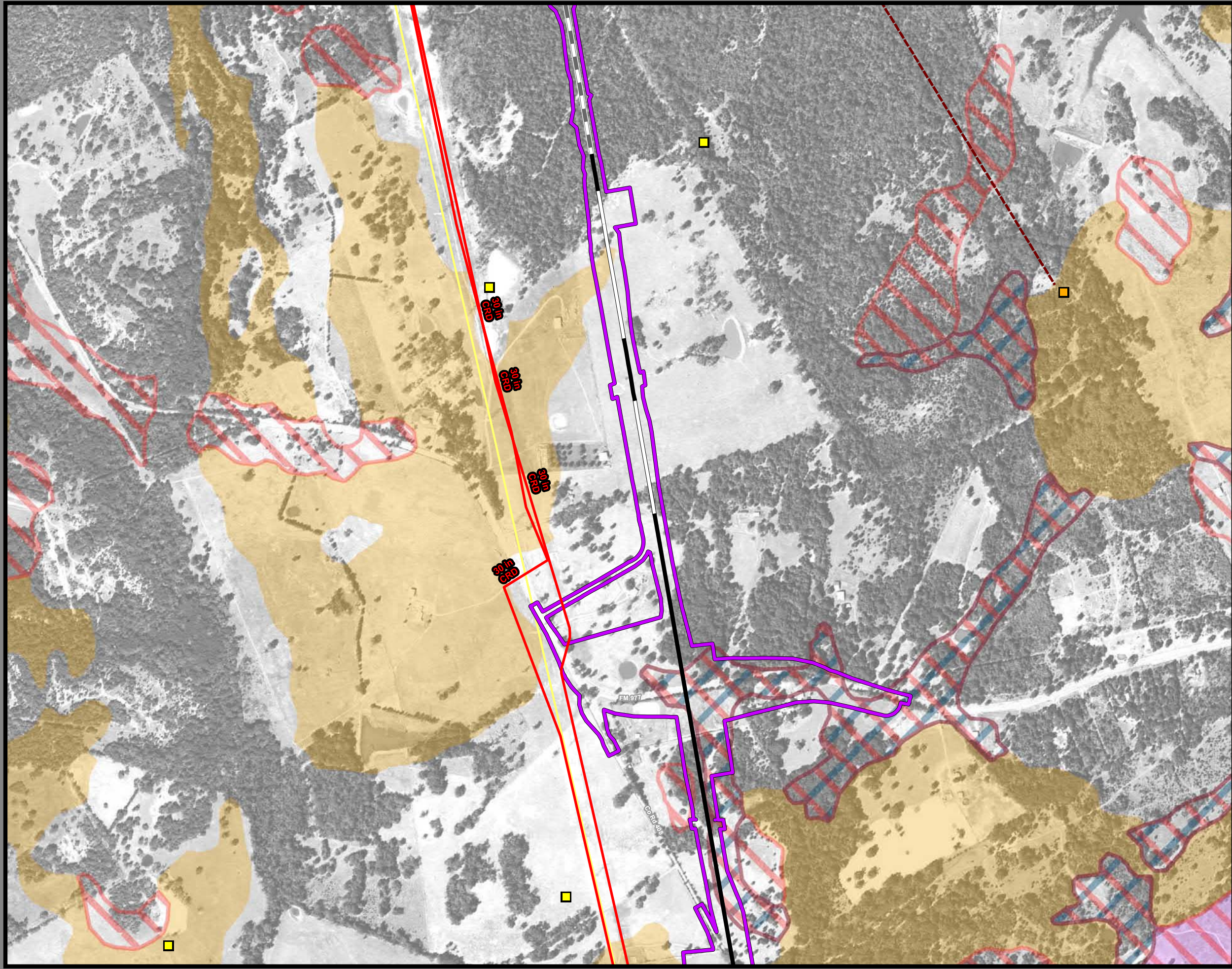
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	Soils
County Boundary	Highly Erodible
Railroad	Hydric
Faults	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

Abbreviated Pipeline Labels:
 CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquefied Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; YP - Y-Grade Products

Data Sources: Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
Aerial Imagery: USDA NAIP 2014





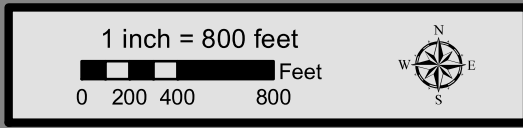
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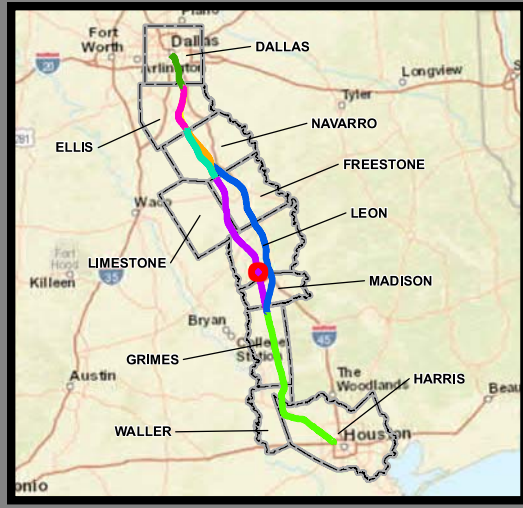
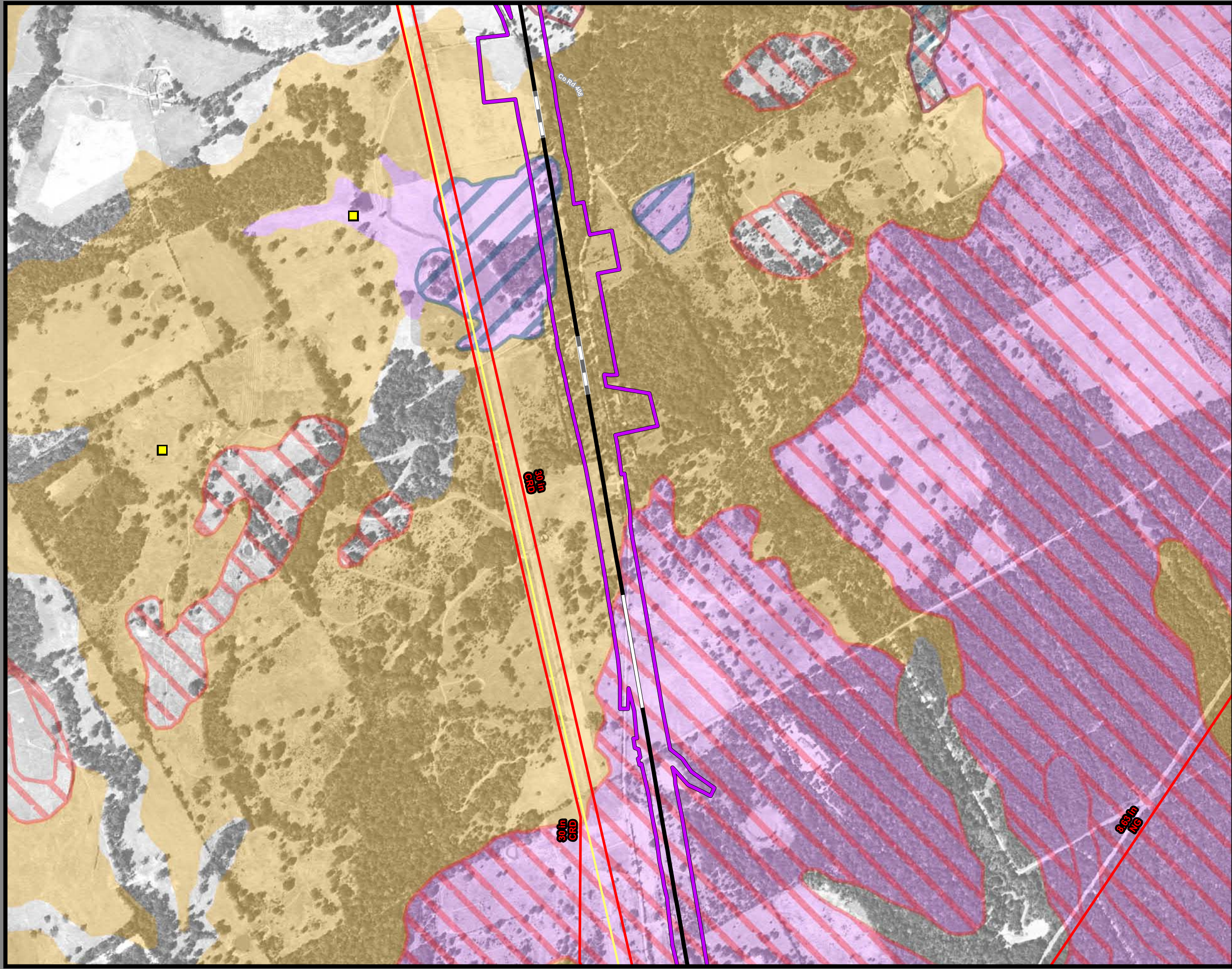
Legend

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 Lines
Track Configuration	Oil/Gas Pipelines
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	Soils
Railroad	Highly Erodible
Faults	Hydric
	Prime Farmland
	Farmland of Statewide Importance
	Prime Farmland if Drained

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Legend

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