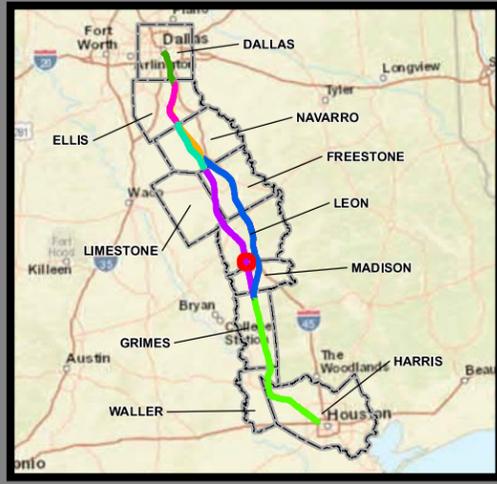
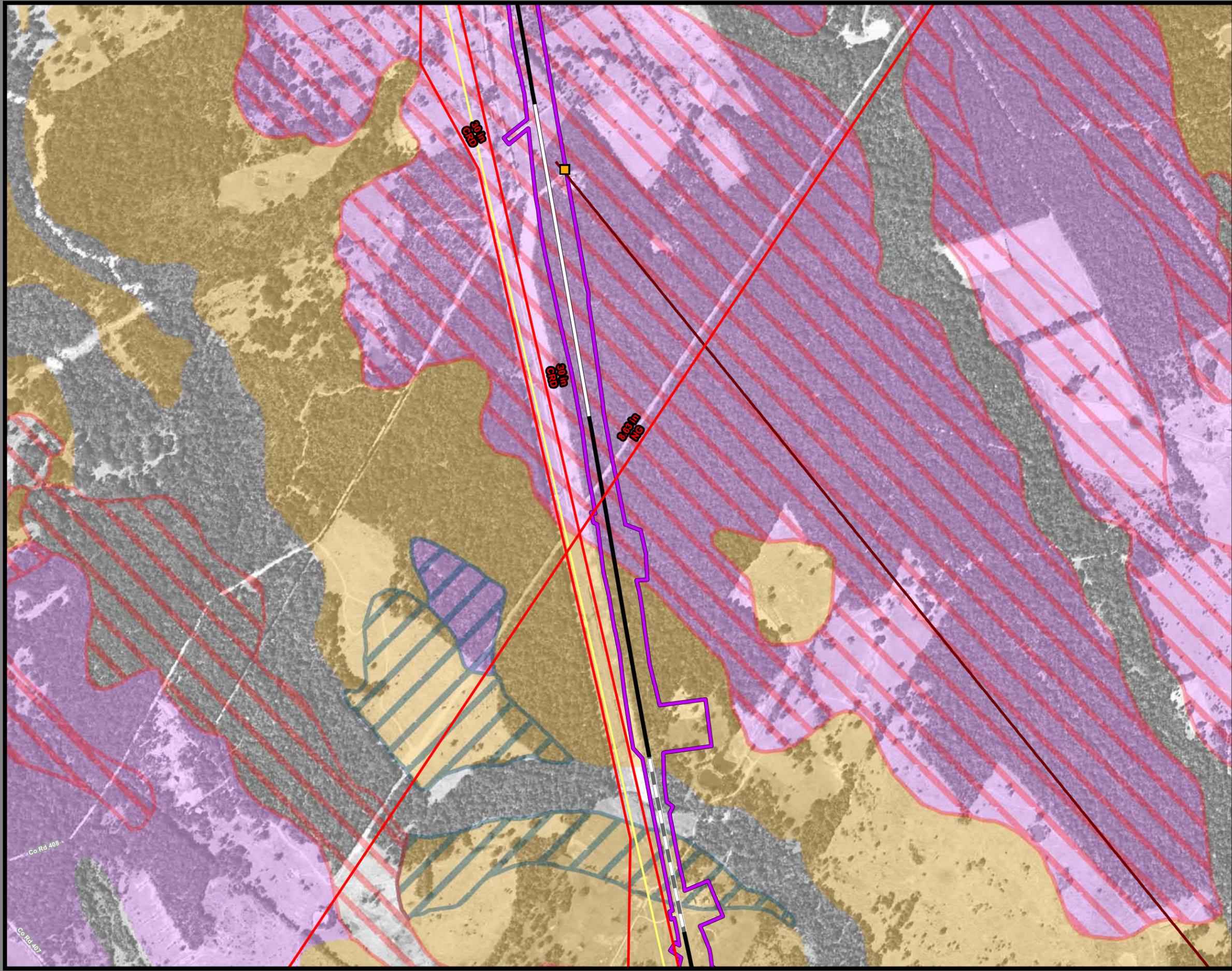


**Dallas to Houston High-Speed Rail  
Draft Environmental Impact Statement**

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



**Federal Railroad  
Administration**



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

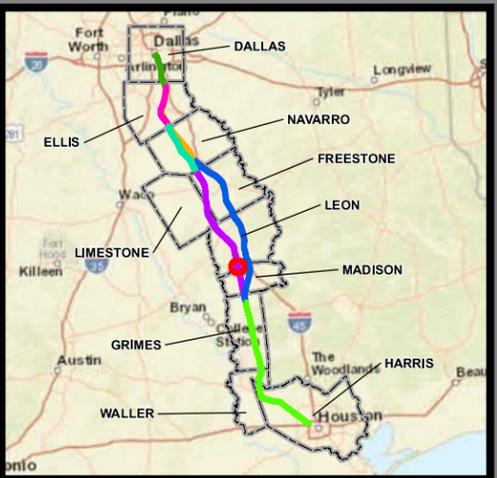
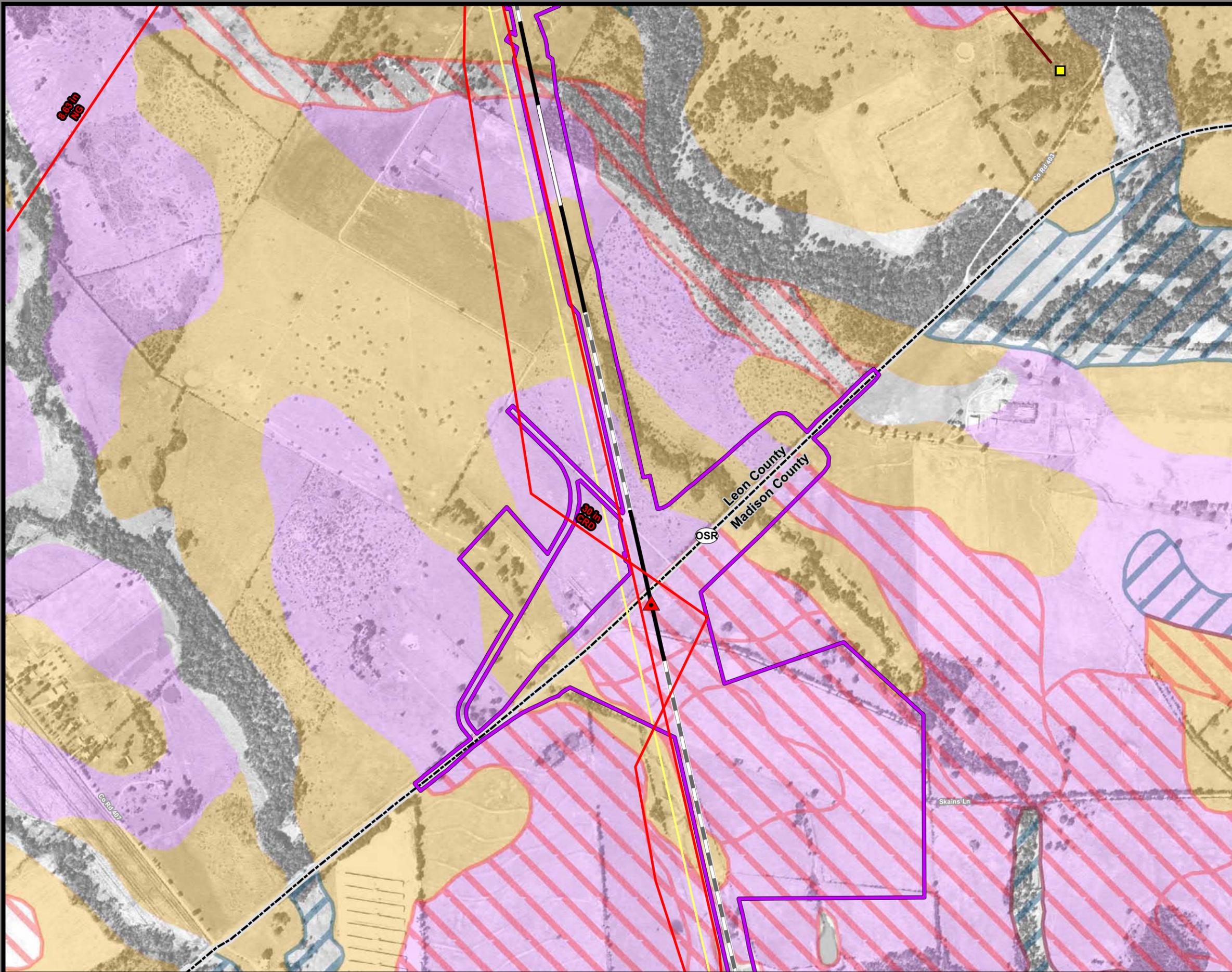
**Legend**

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





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

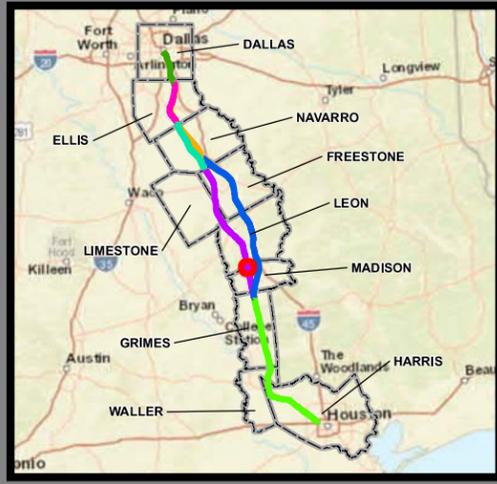
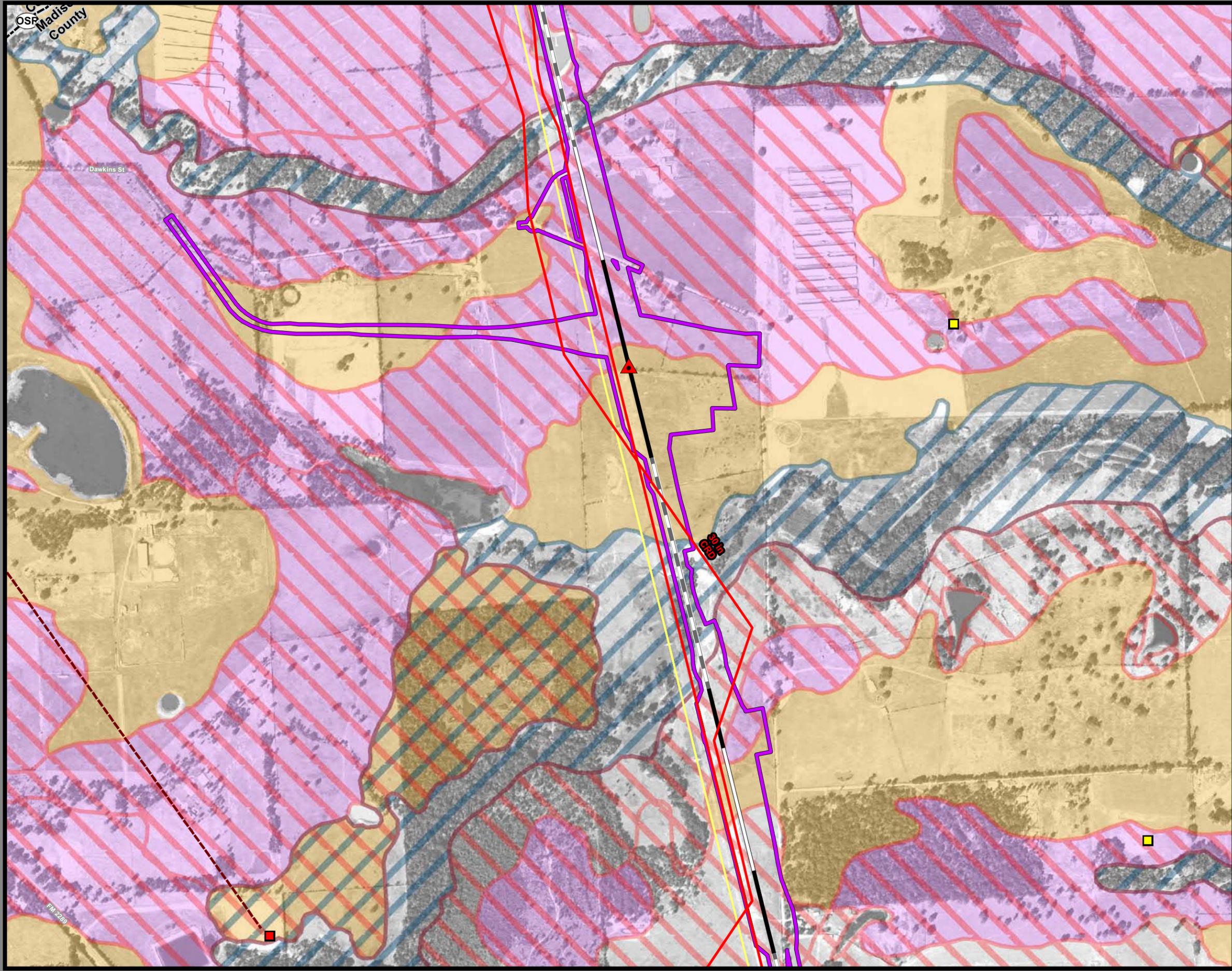
**Legend**

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





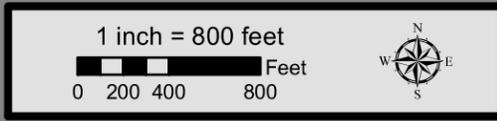
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 4  
Sheet 190 of 257**

**Legend**

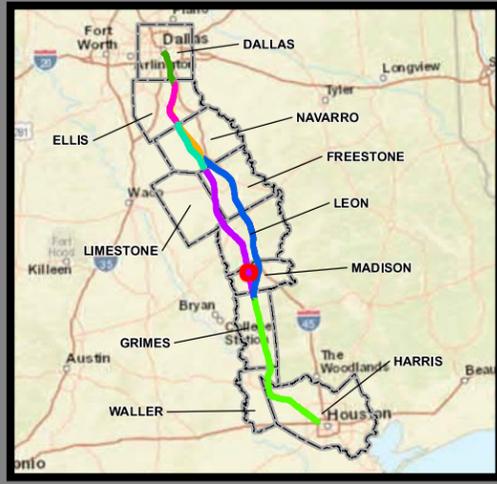
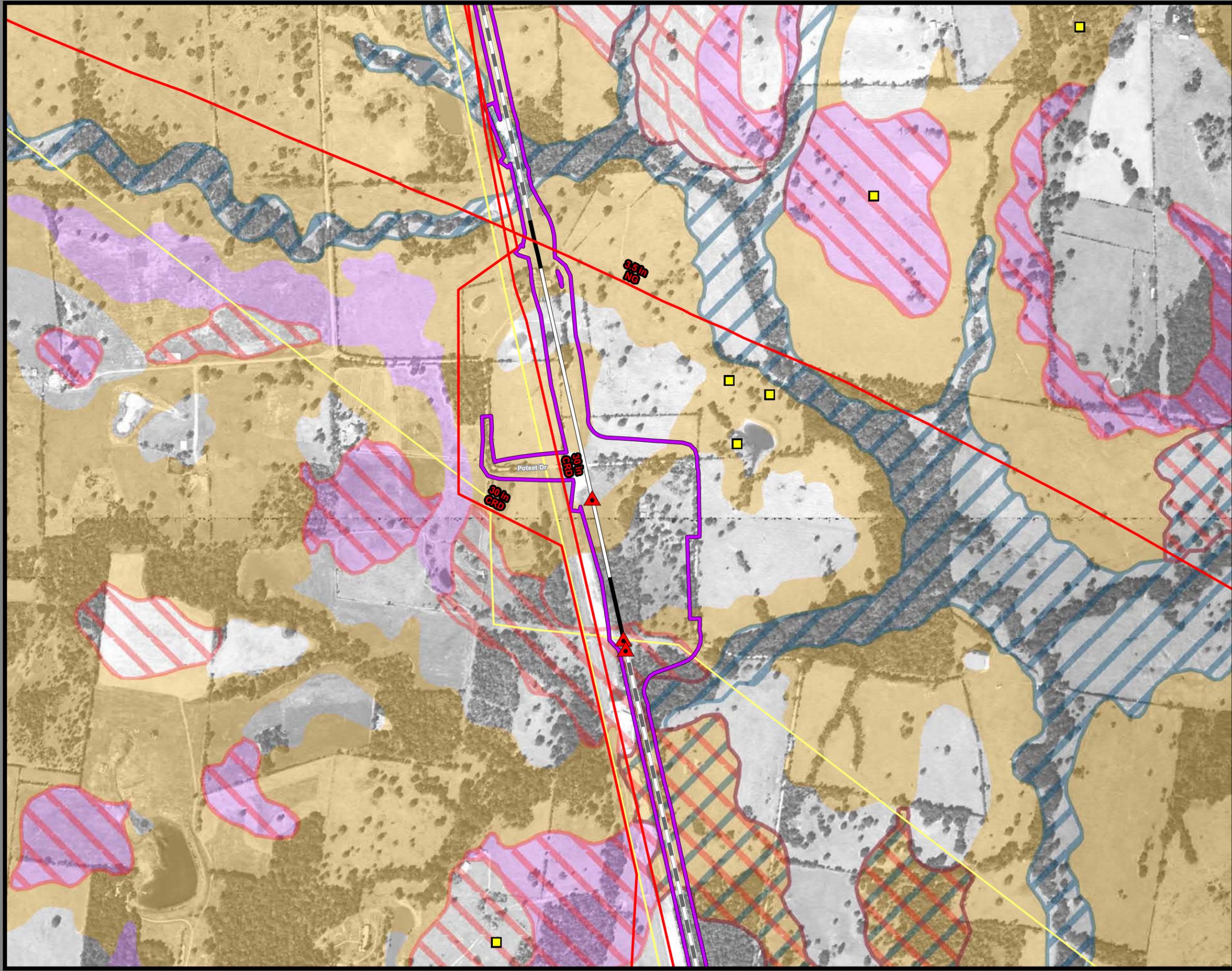
<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>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







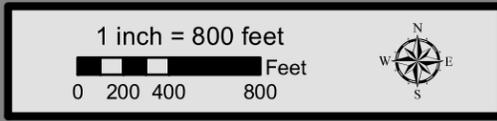
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 4  
Sheet 192 of 257**

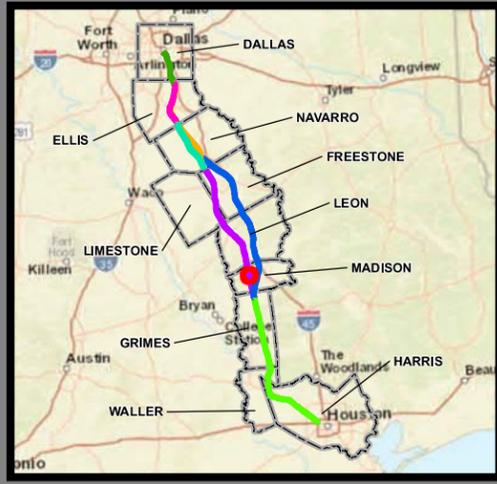
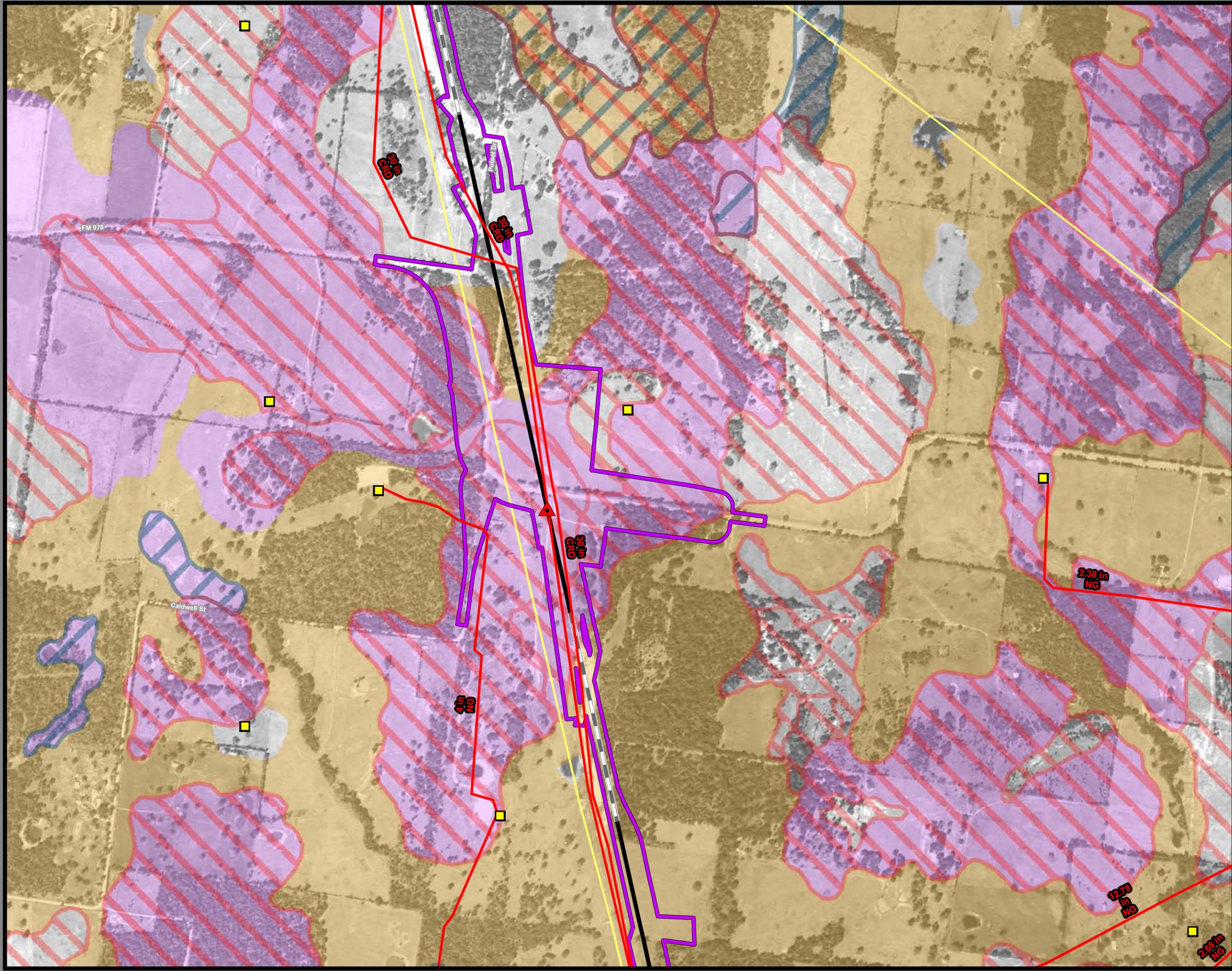
**Legend**

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





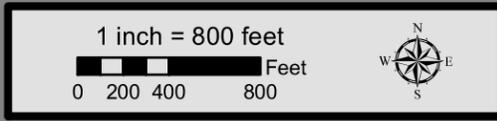
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 4  
Sheet 193 of 257**

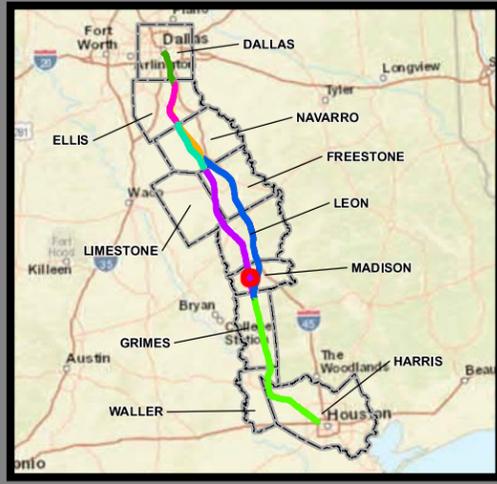
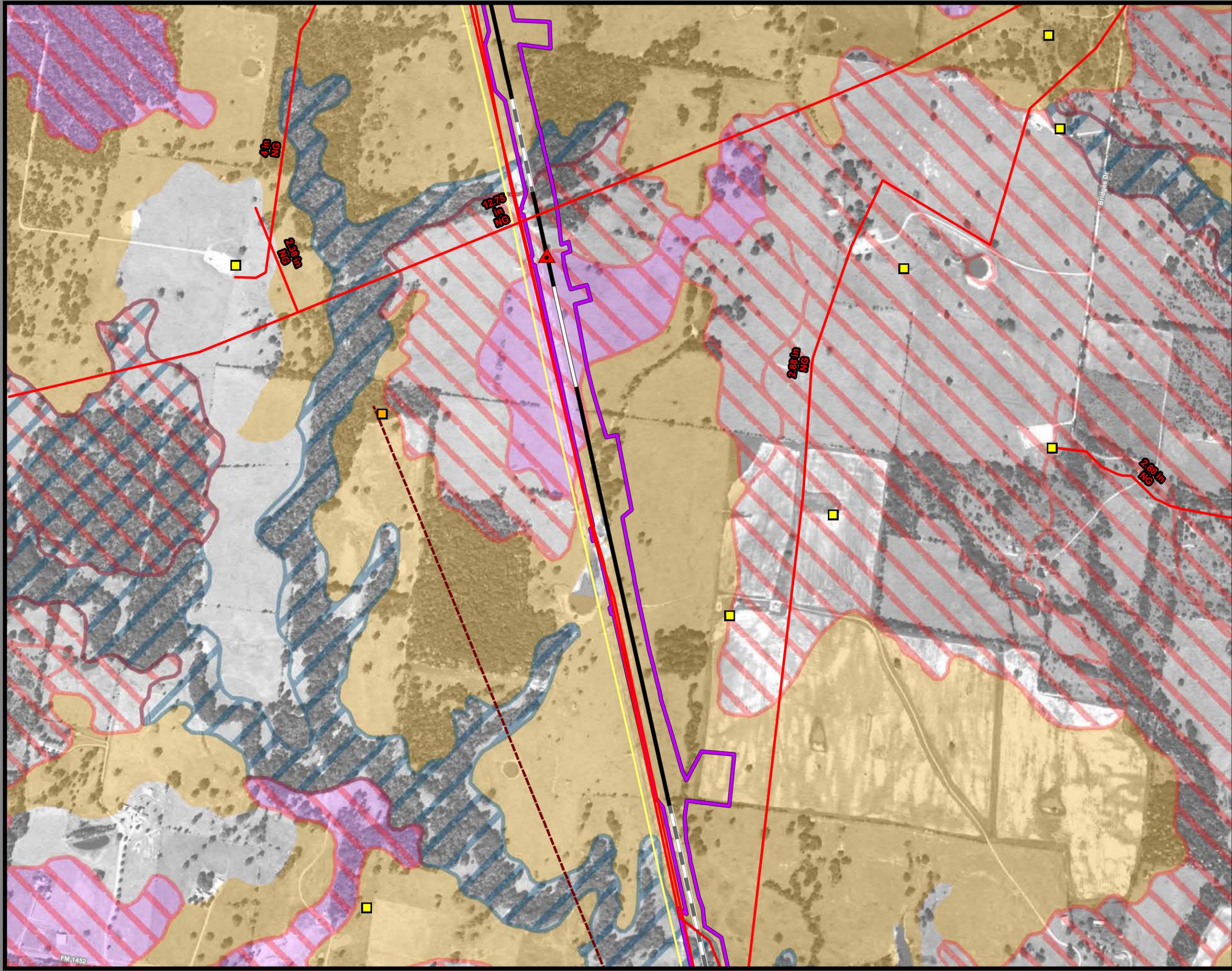
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 194 of 257**

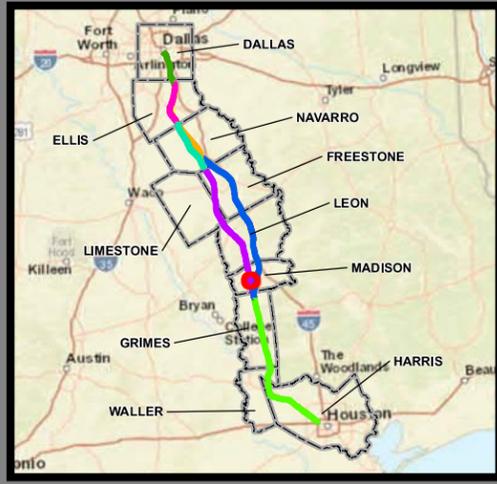
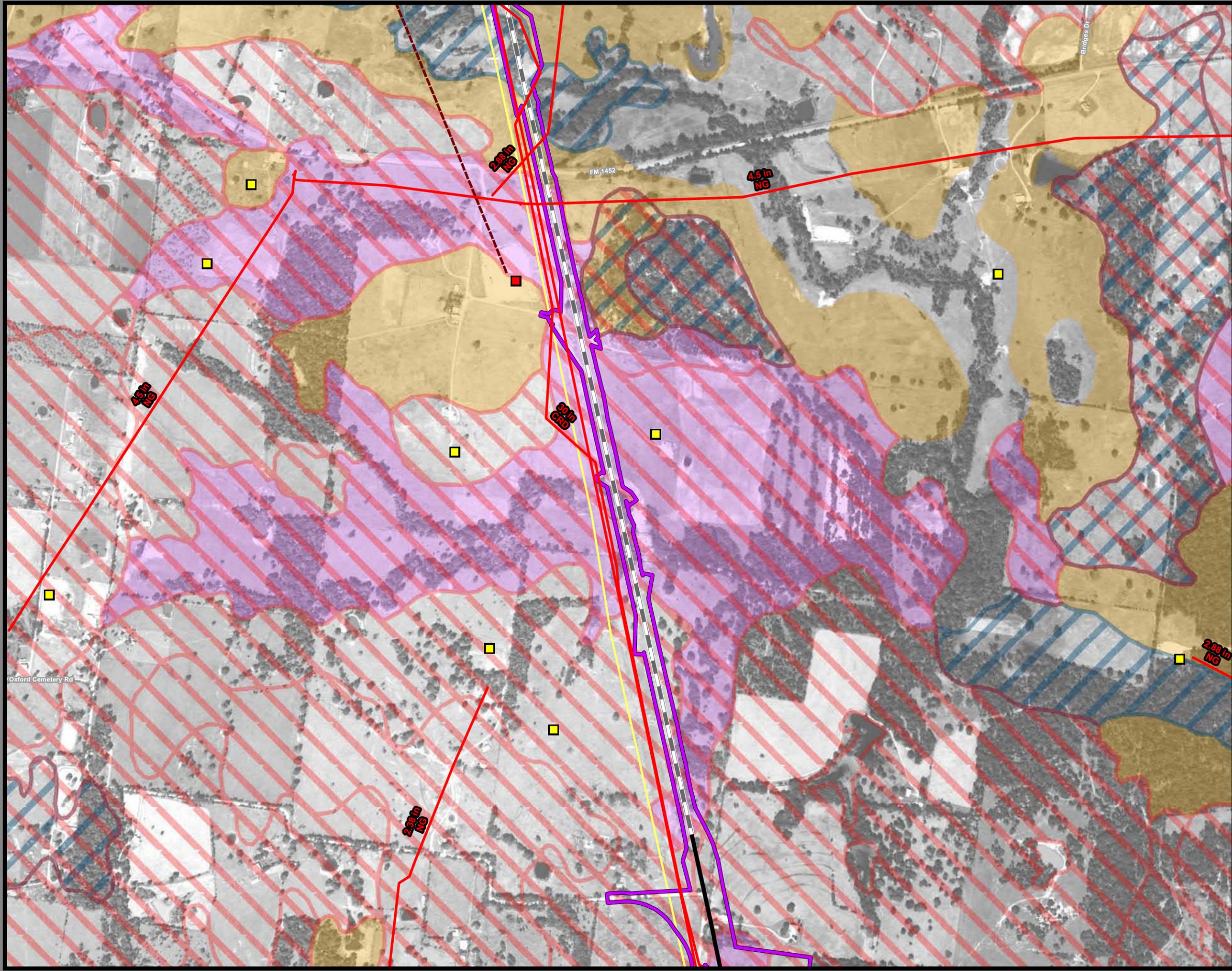
**Legend**

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

**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 195 of 257**

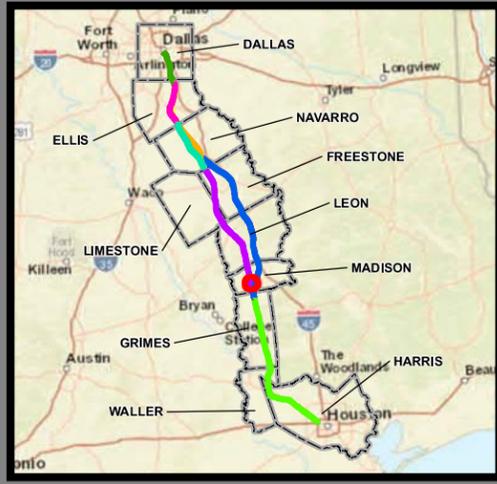
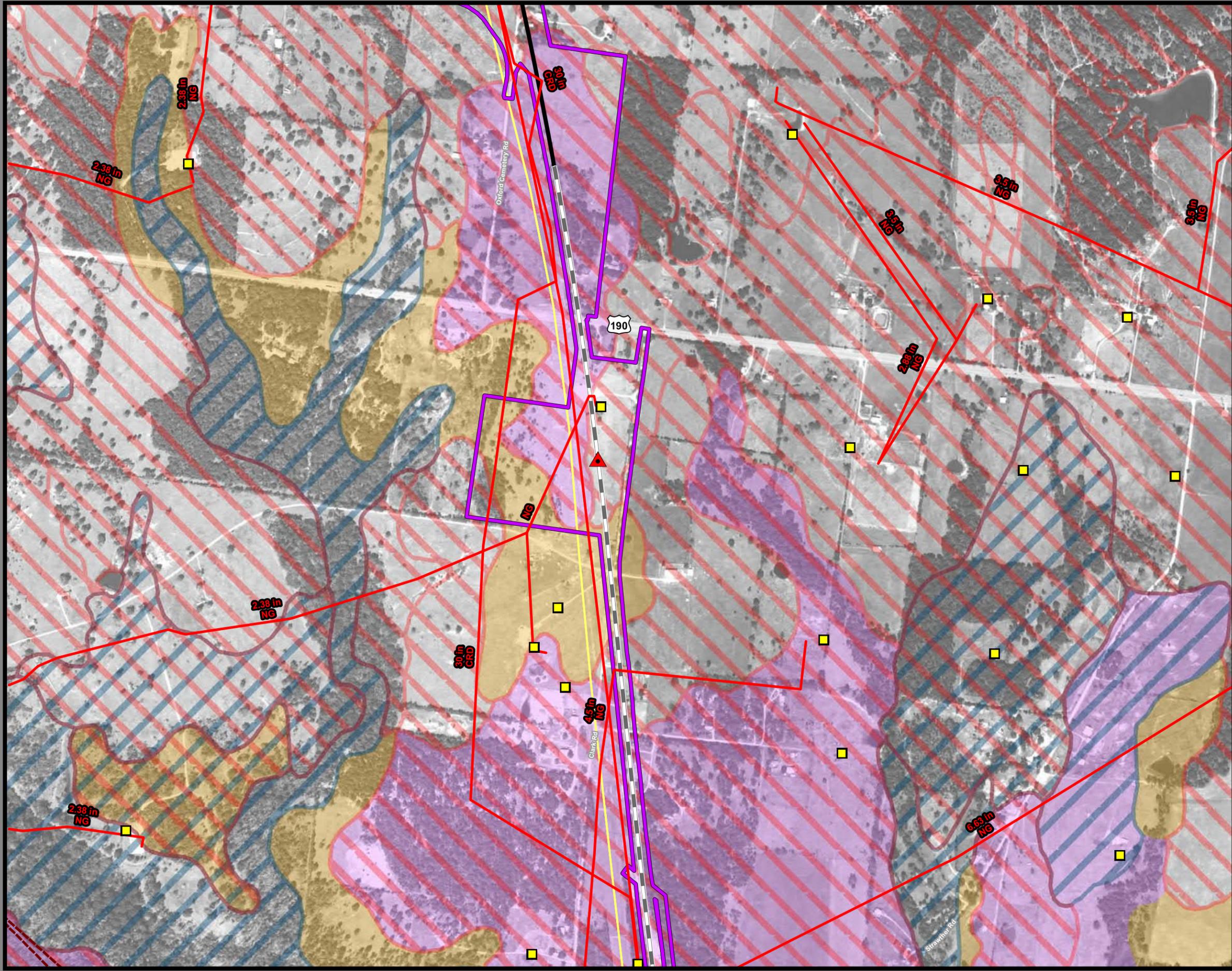
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 4  
Sheet 196 of 257**

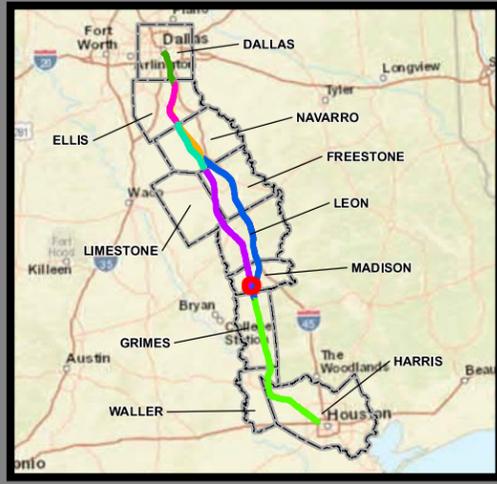
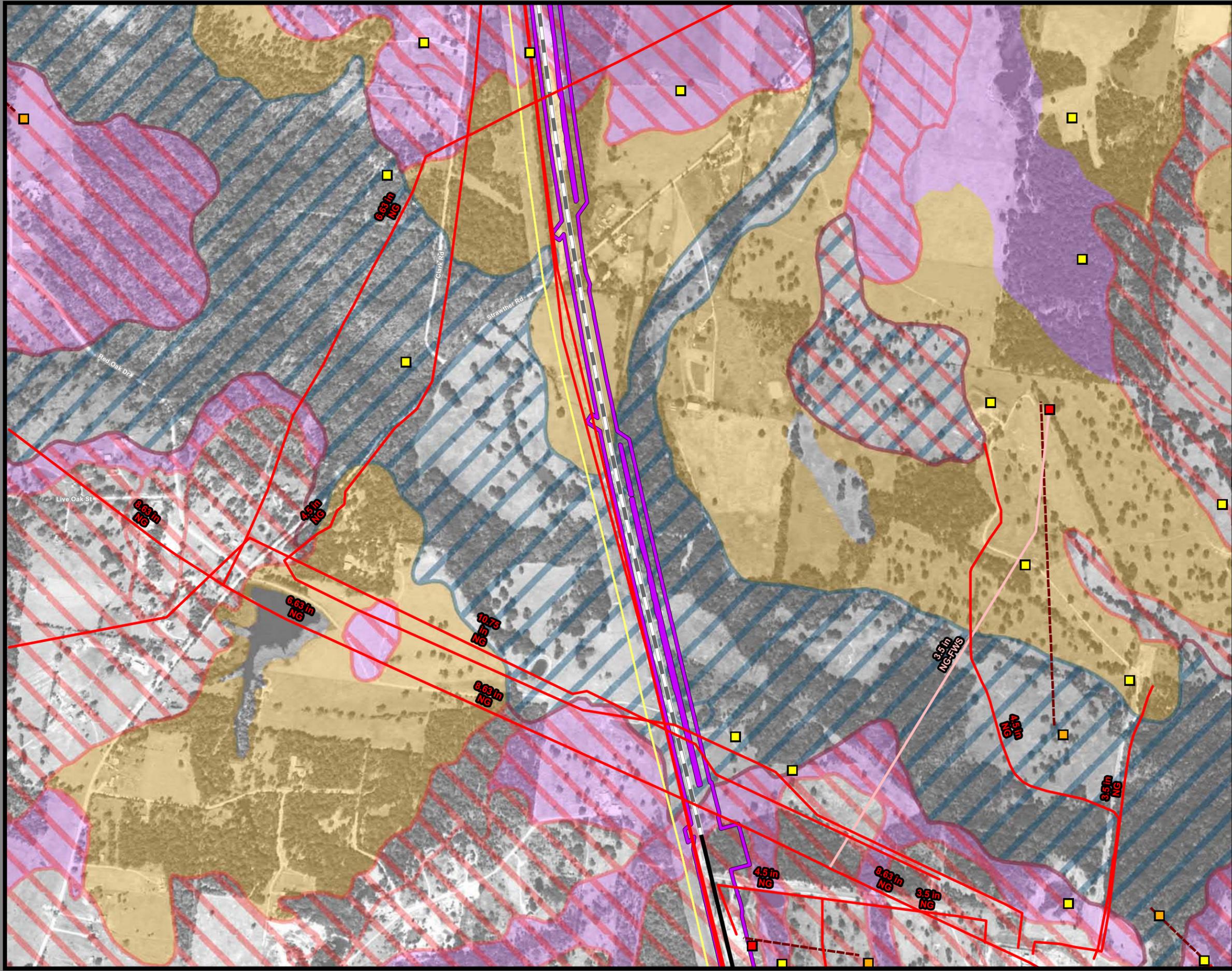
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 4  
Sheet 197 of 257**

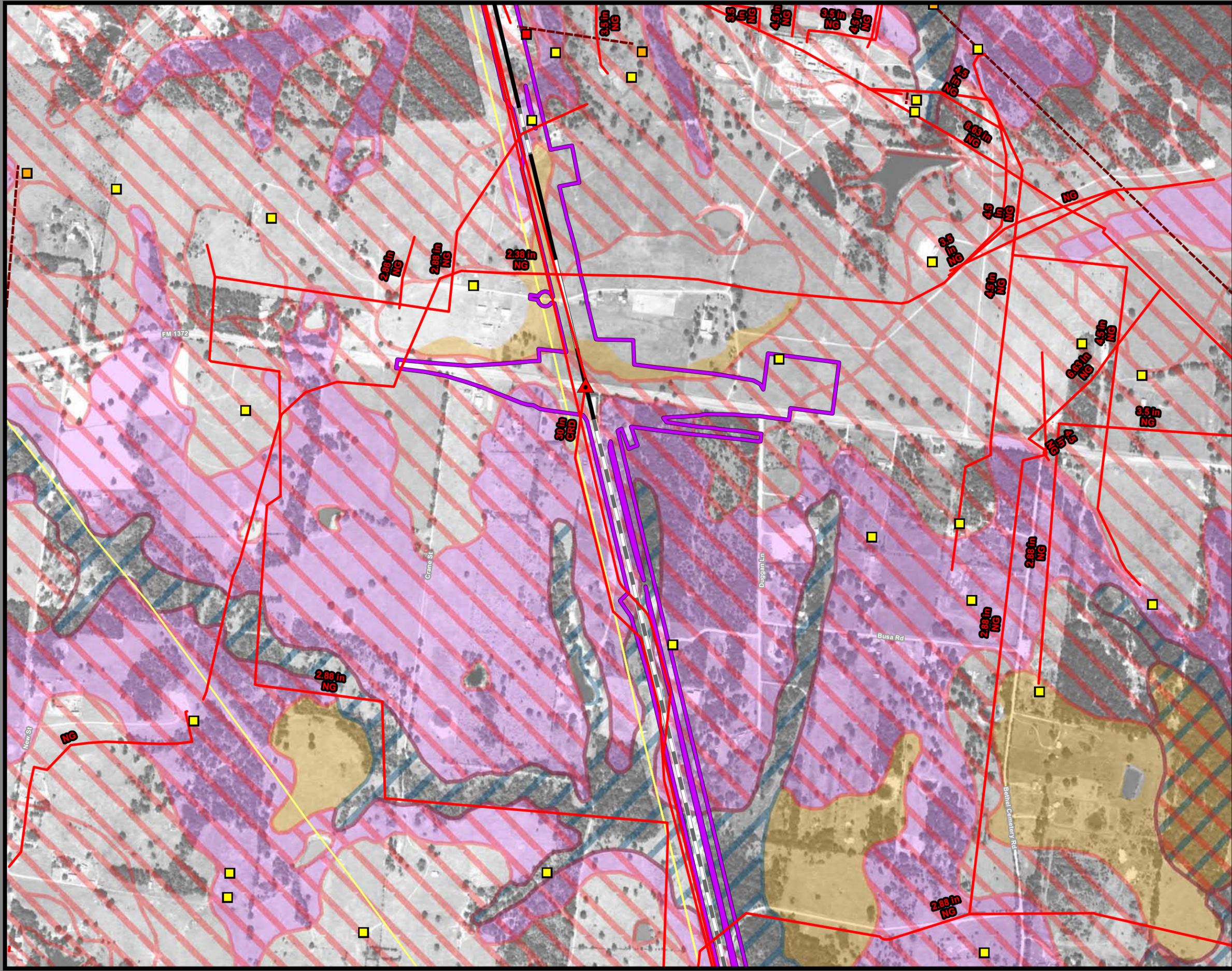
**Legend**

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





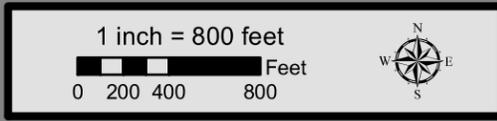
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 4  
Sheet 198 of 257**

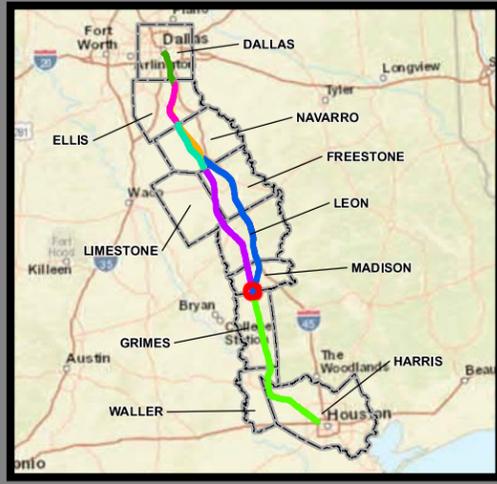
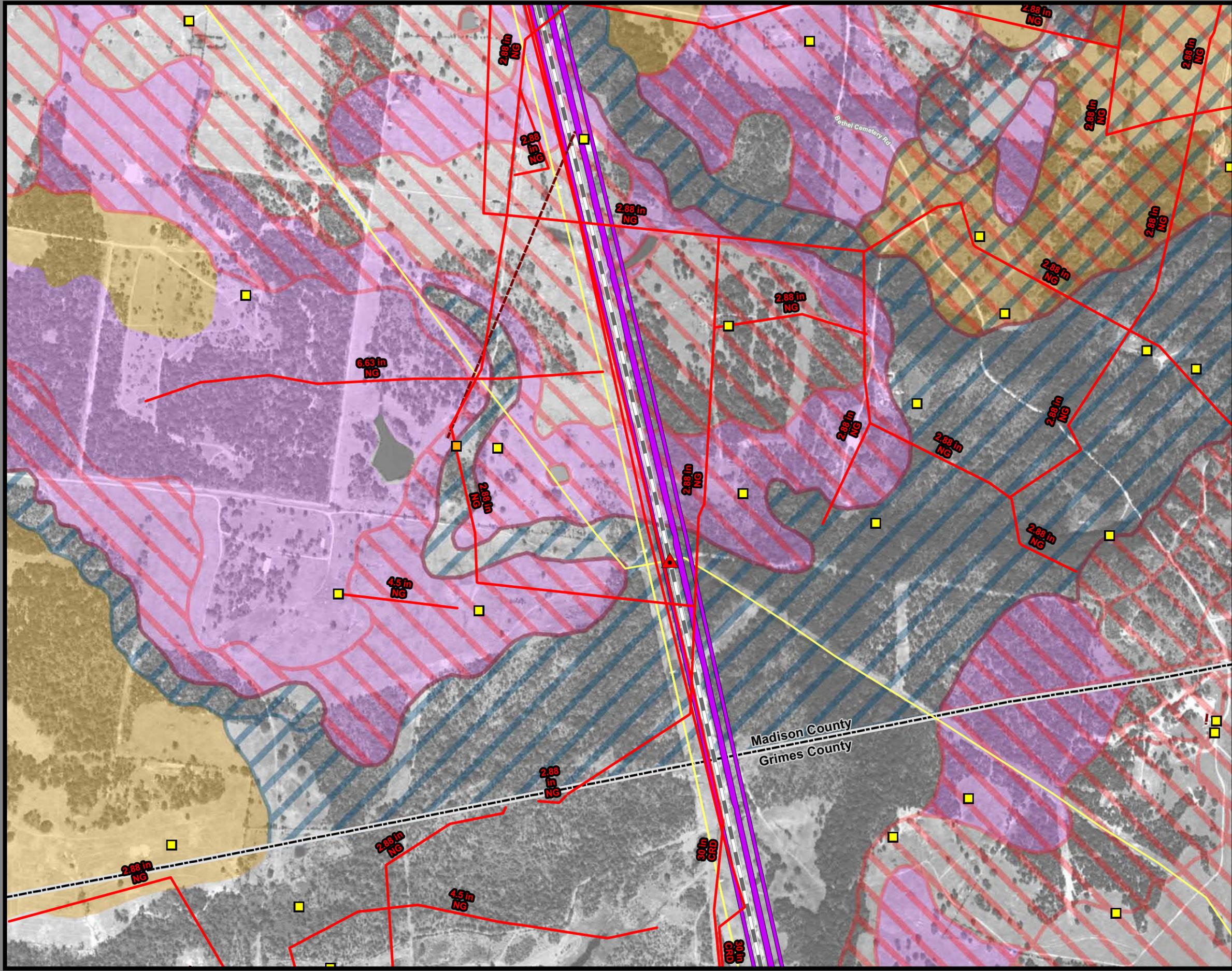
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 199 of 257**

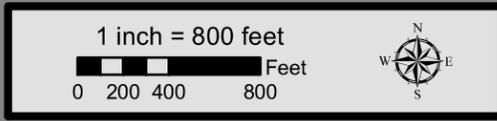
**Legend**

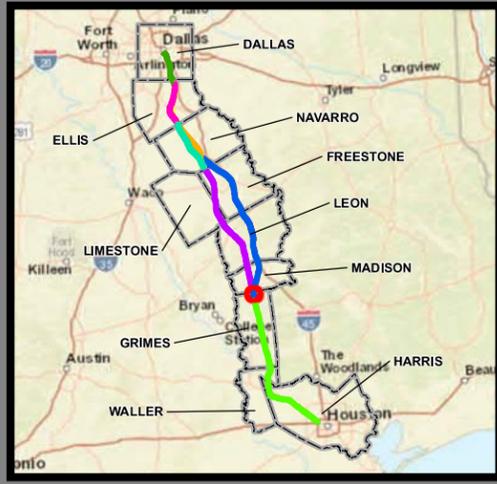
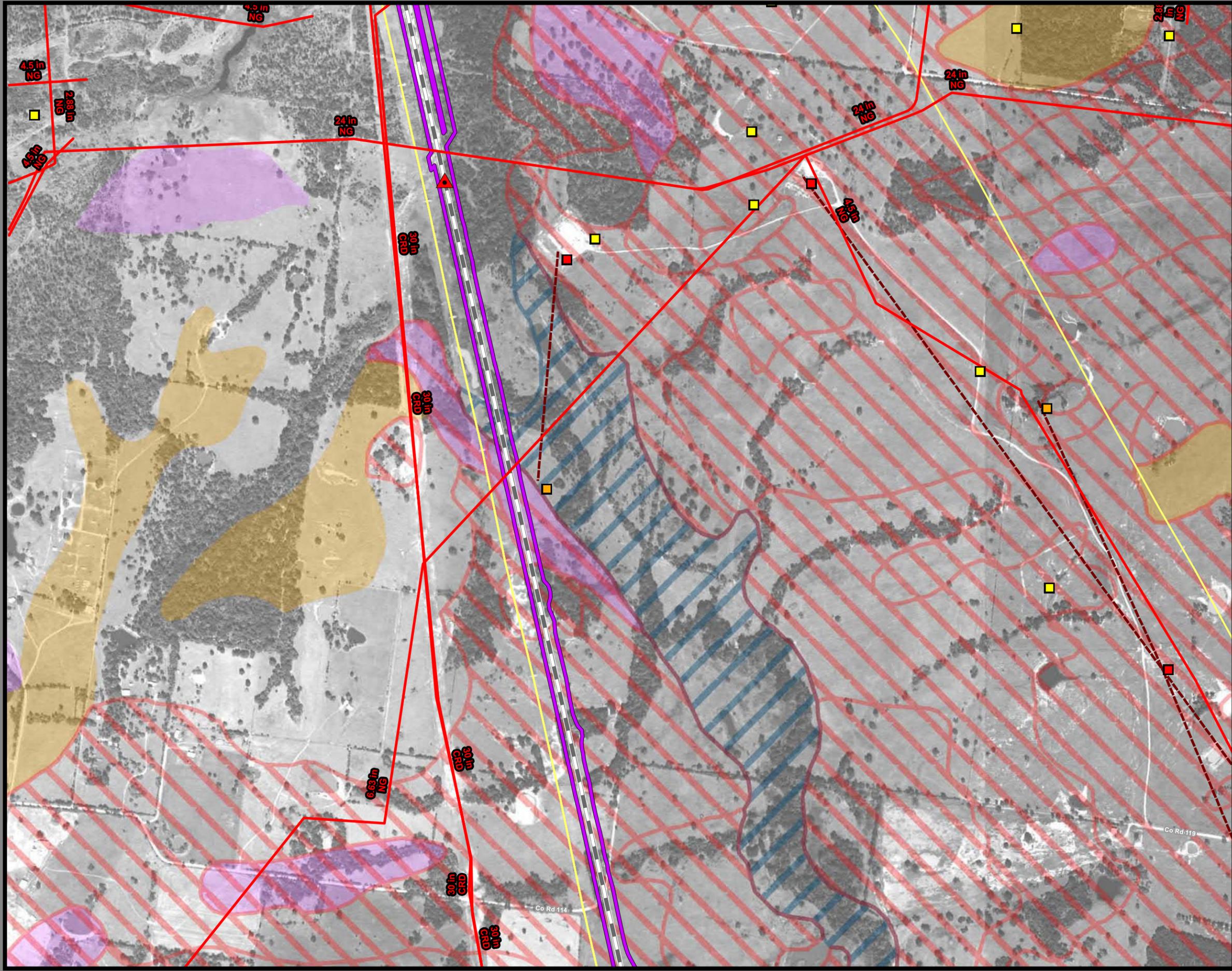
<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 150.\*\*\*

**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  
Sheet 200 of 257**

**Legend**

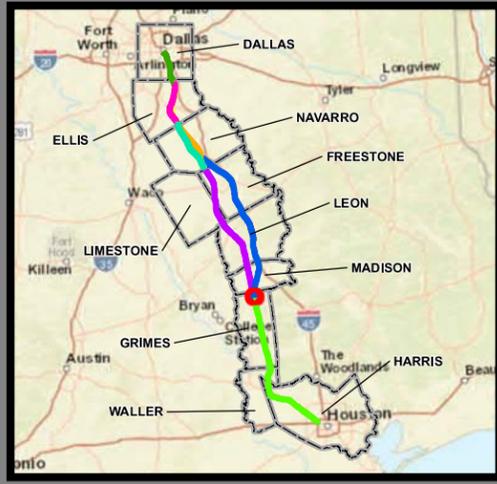
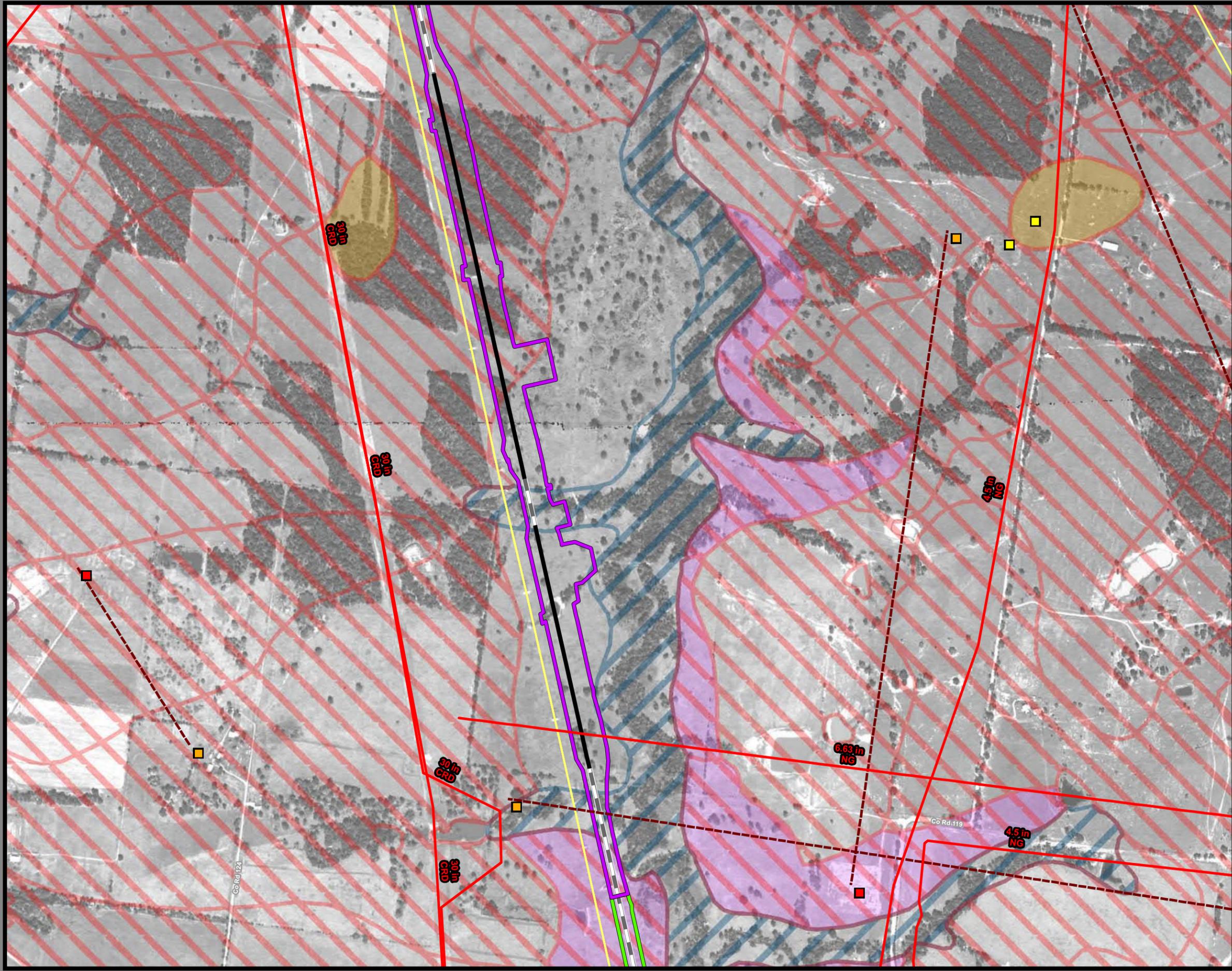
<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 151.\*\*\*

**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, 5  
Sheet 201 of 257**

**Legend**

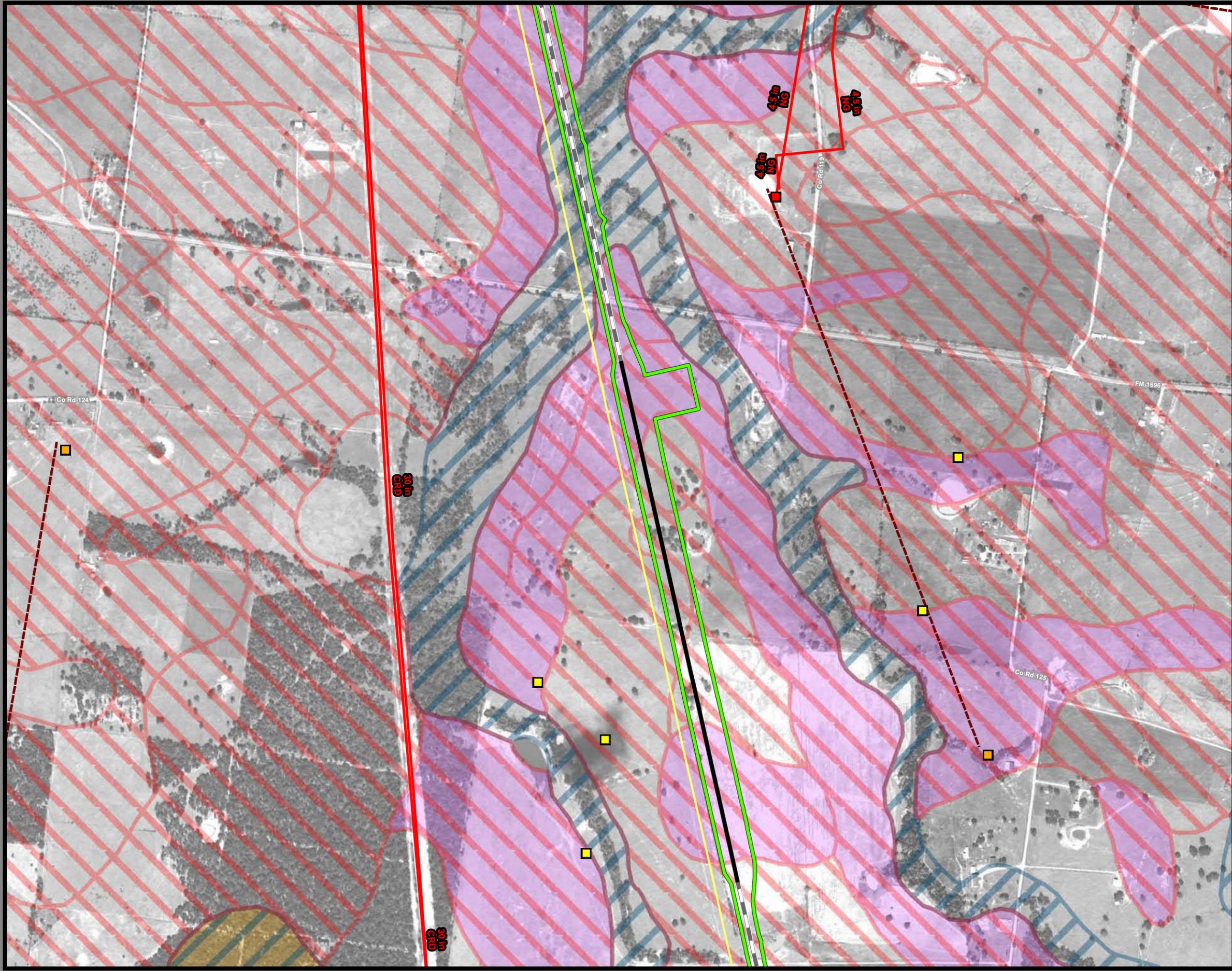
<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	<b>Oil/Gas Wells</b>
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
<b>Track Configuration</b>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

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

**Abbreviated Pipeline Labels:**  
 CRD - Crude Oil; 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





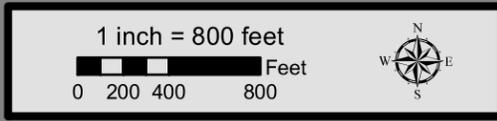
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 202 of 257**

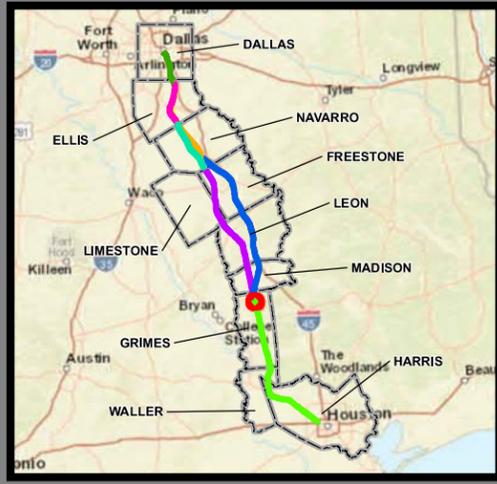
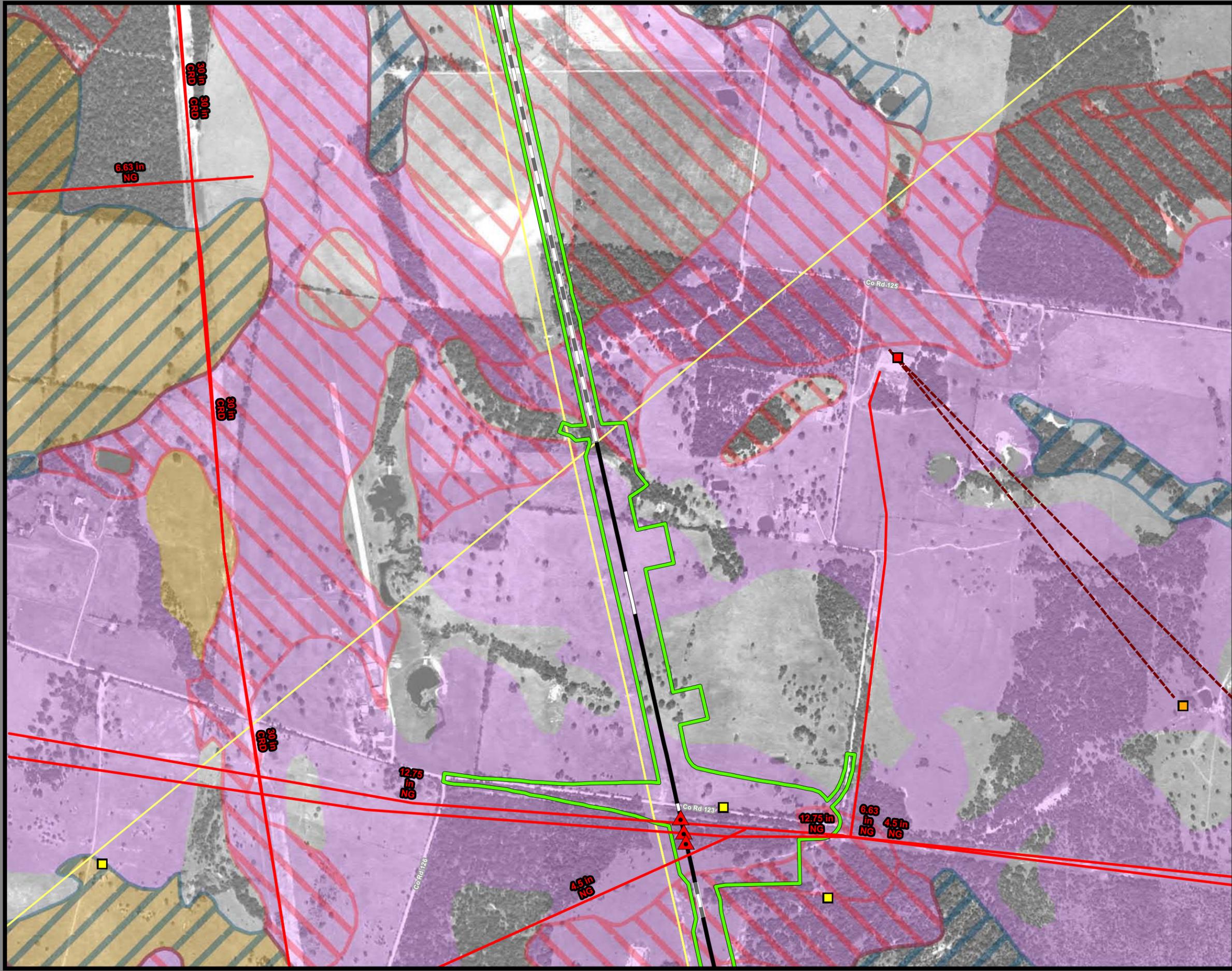
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 203 of 257**

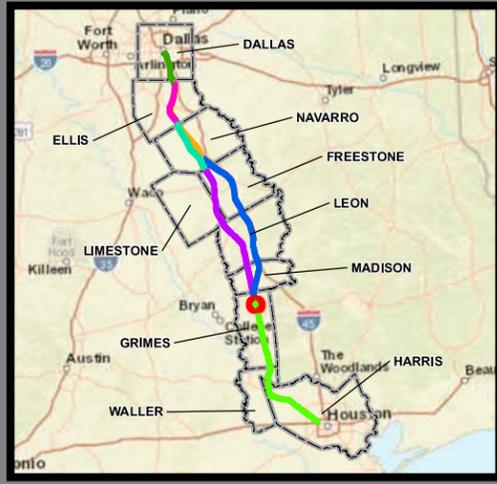
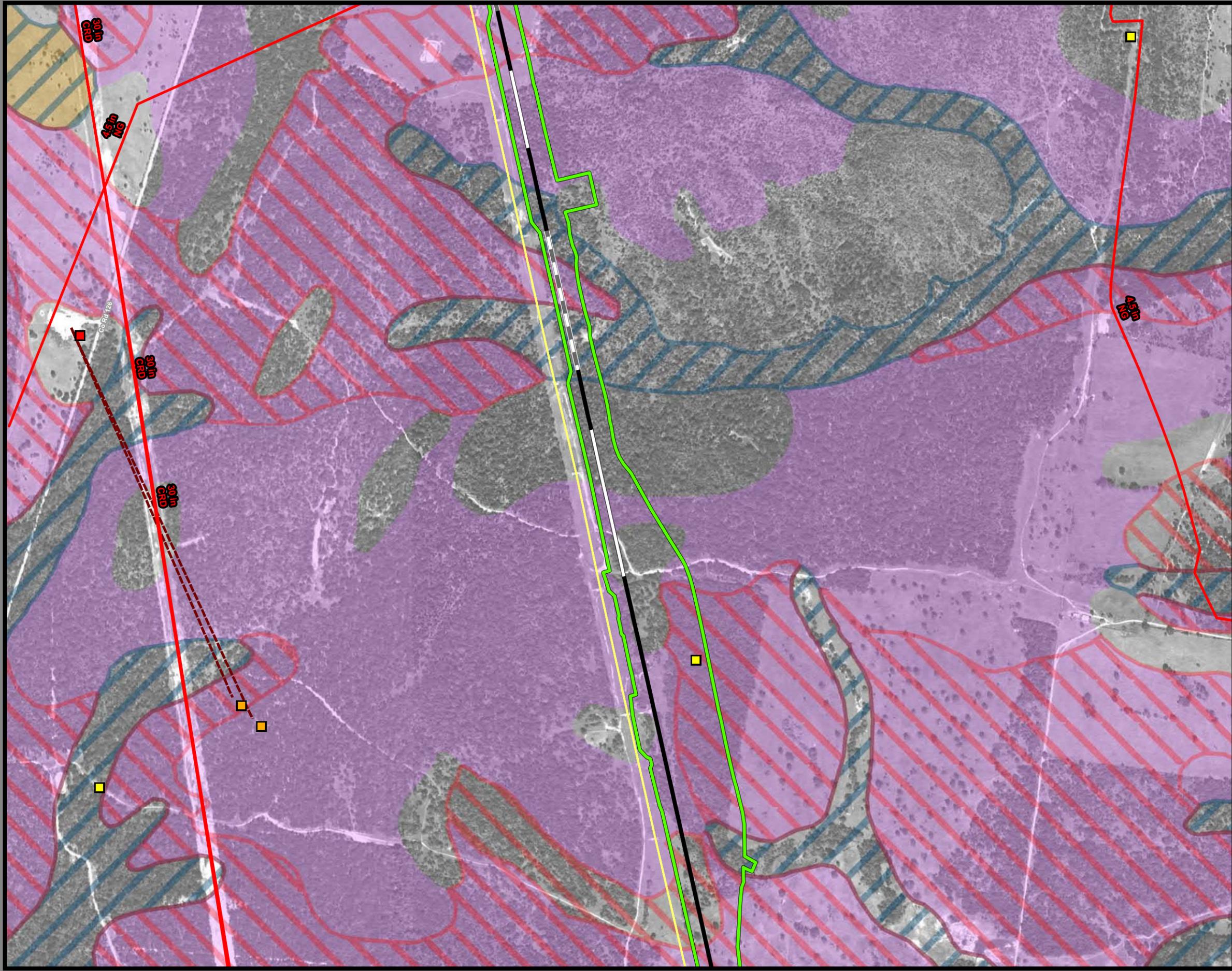
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 204 of 257**

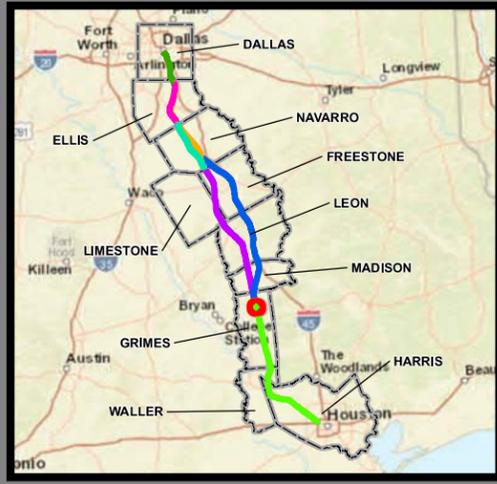
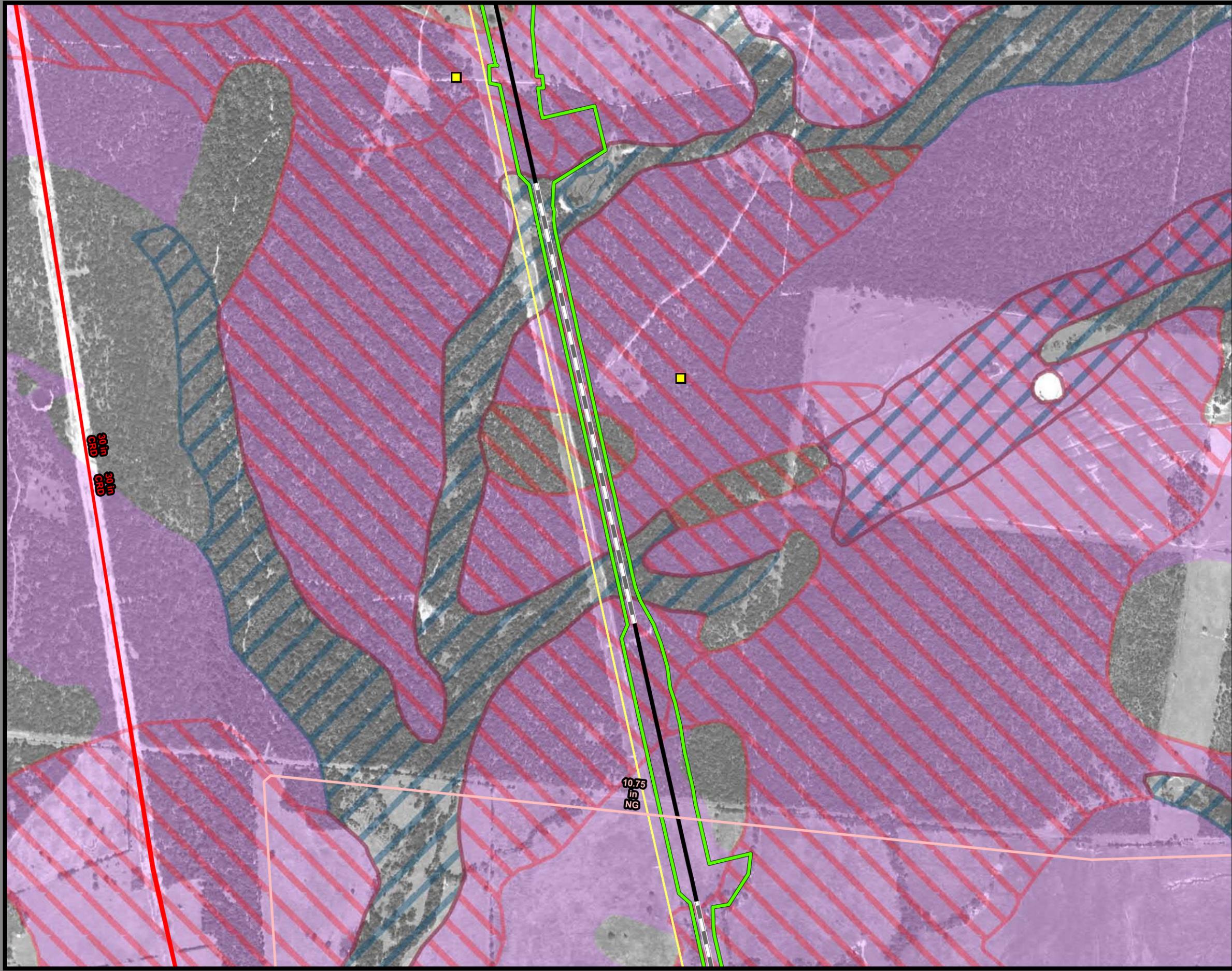
**Legend**

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

**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





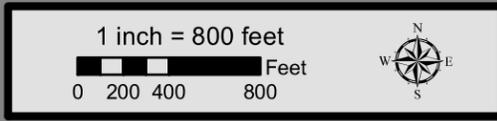
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 205 of 257**

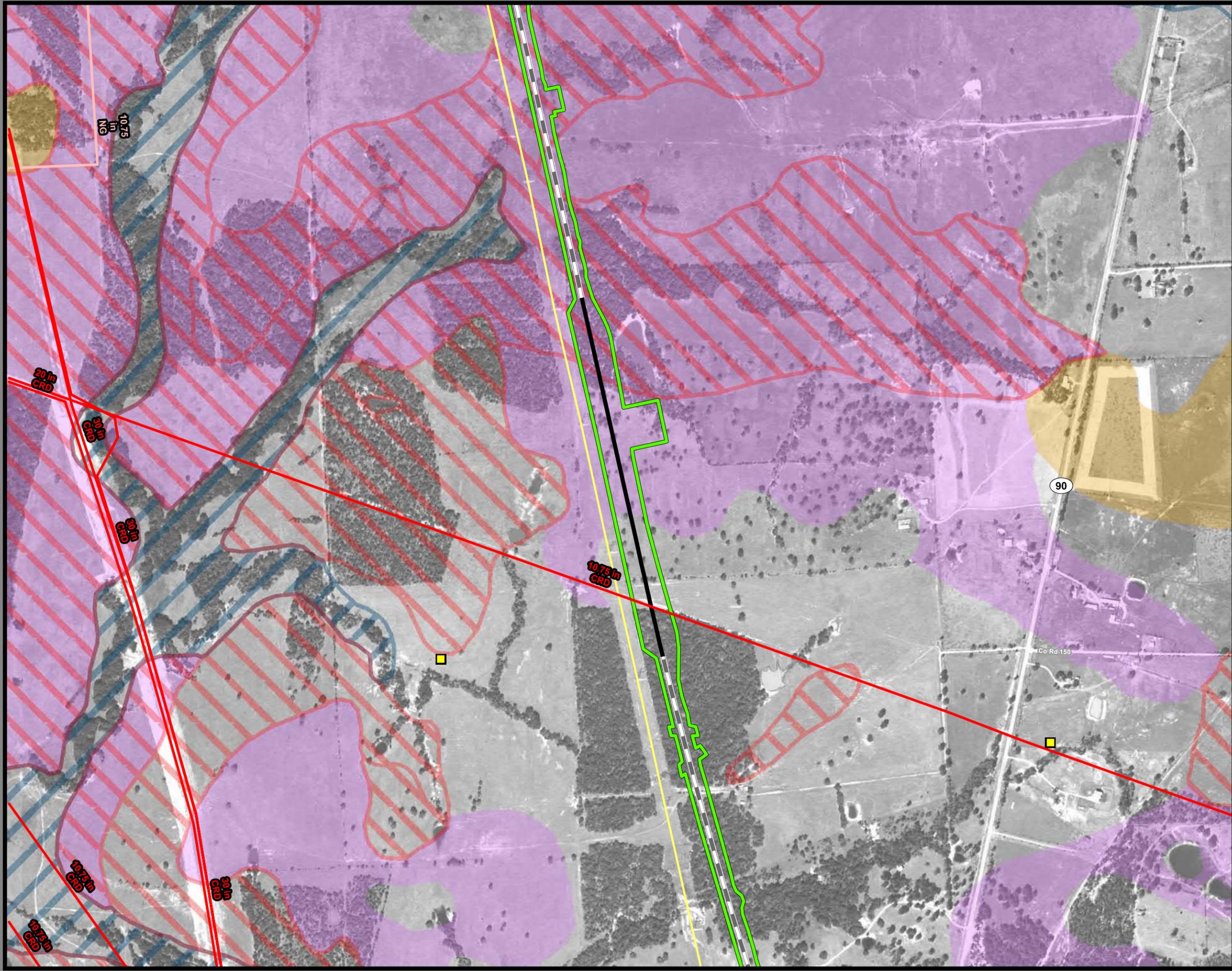
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 206 of 257**

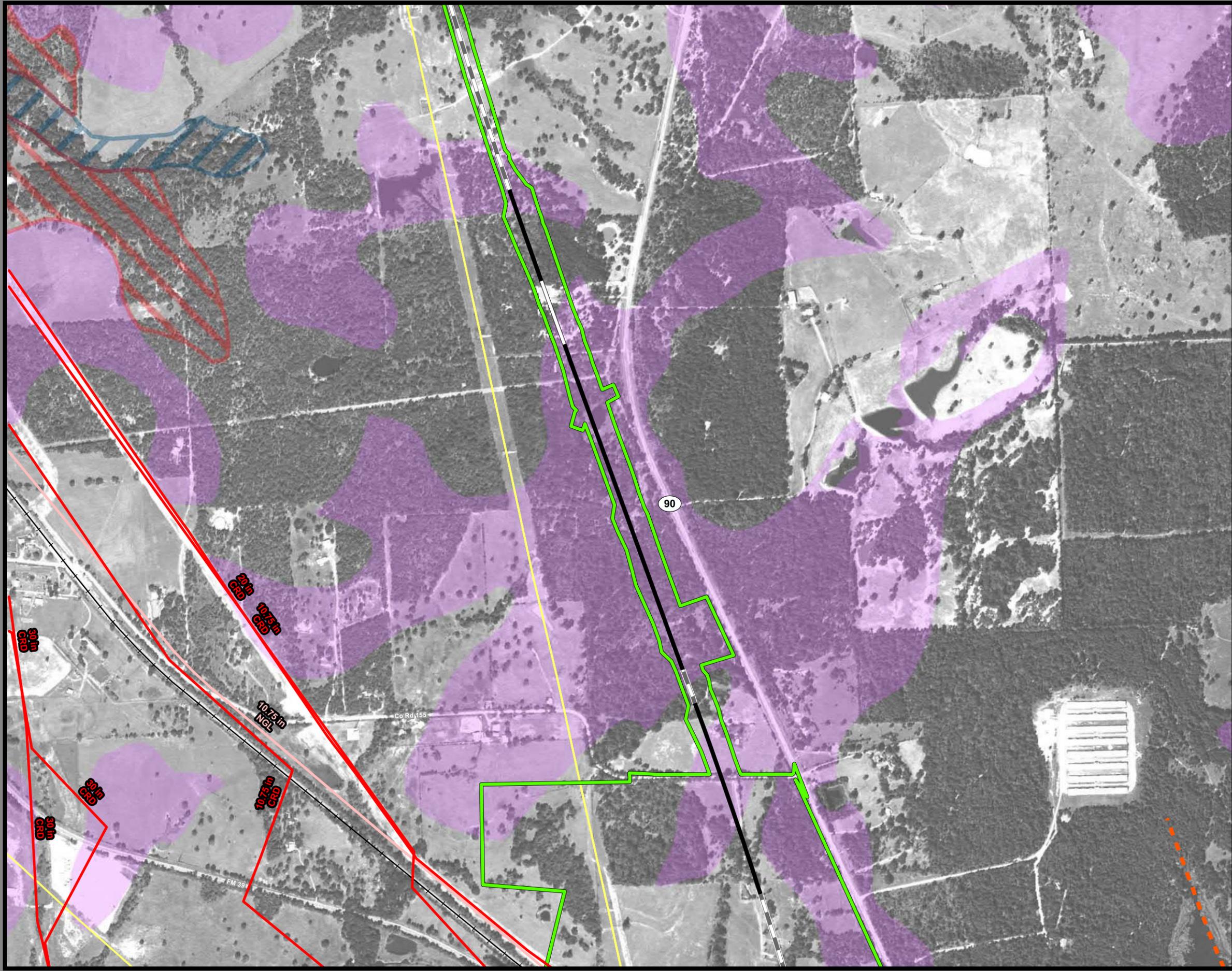
**Legend**

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

**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





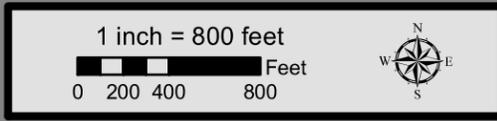
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 207 of 257**

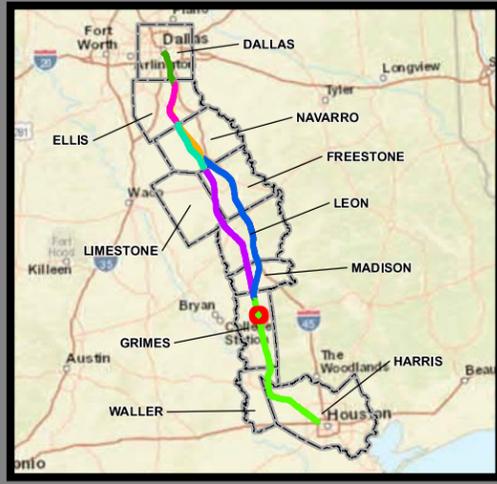
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 208 of 257**

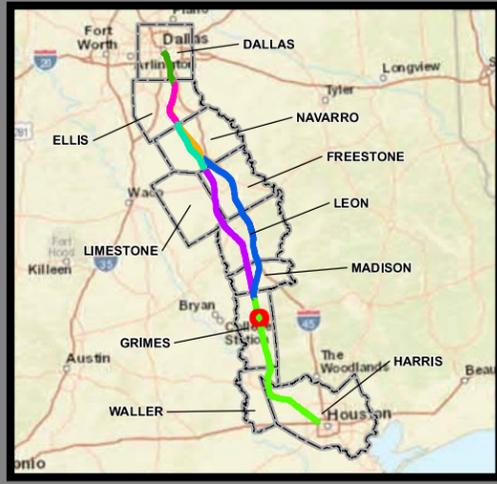
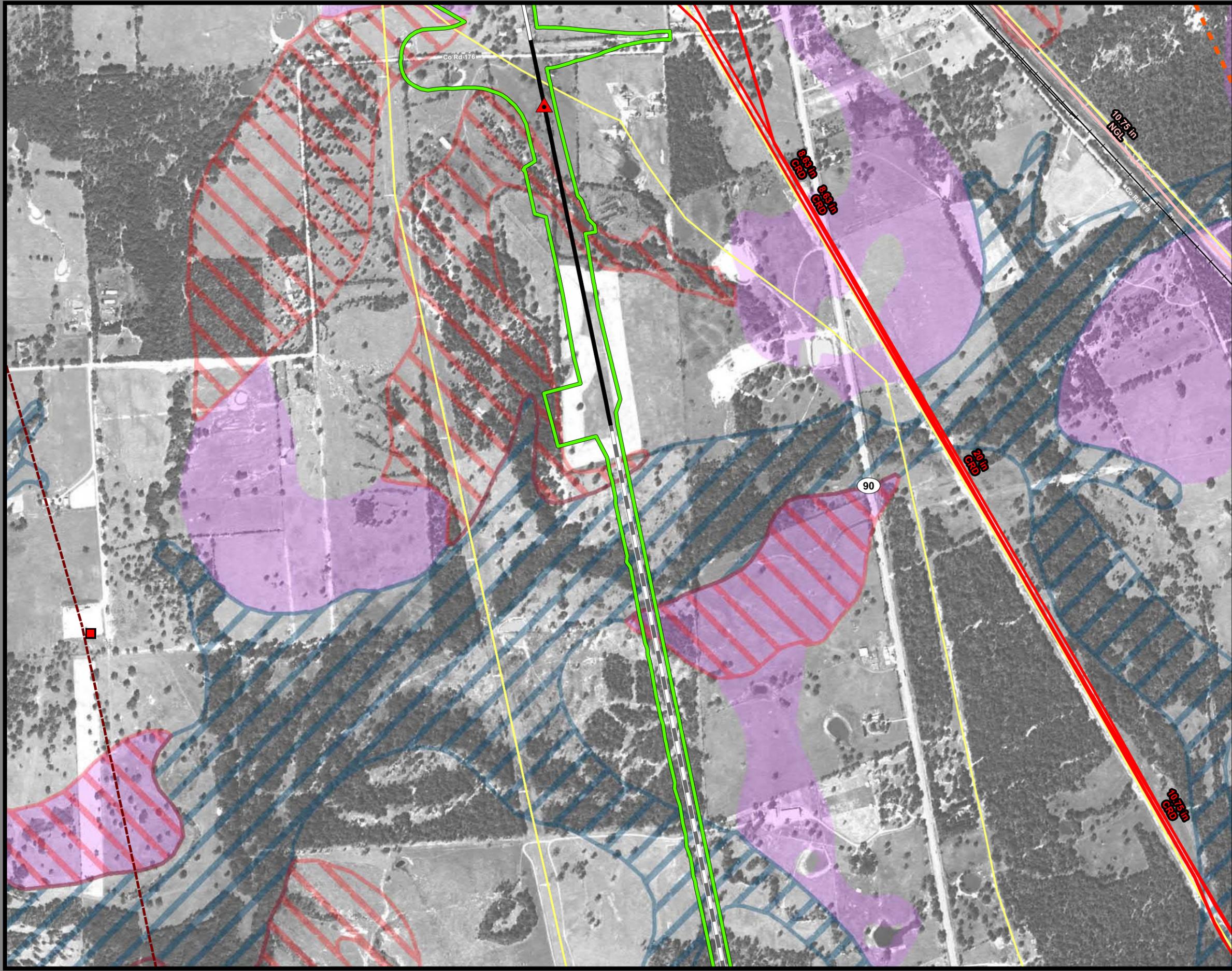
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	<b>Oil/Gas Wells</b>
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	<b>Soils</b>
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; R-PP - Refined Petroleum Products; R-PRD - Refined Products; Y-NGL - Y-Grade NGL; Y-PP - 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





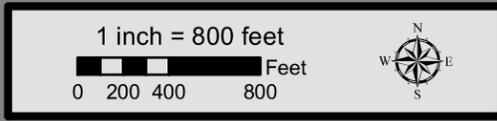
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 209 of 257**

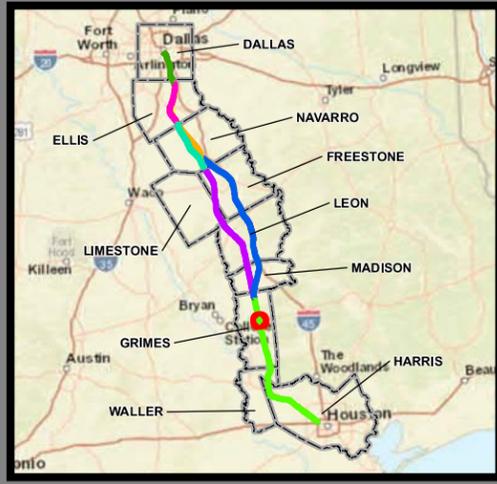
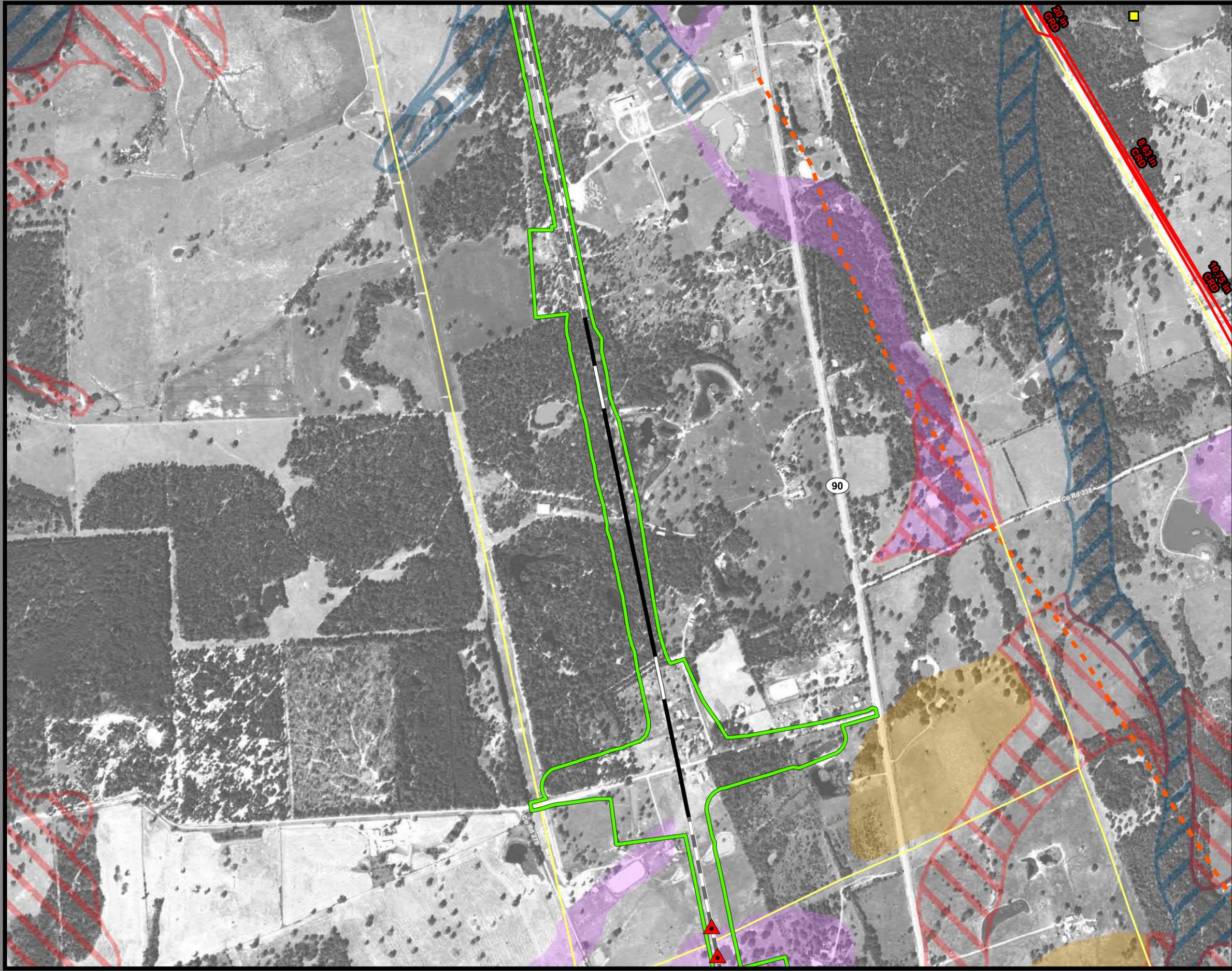
**Legend**

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





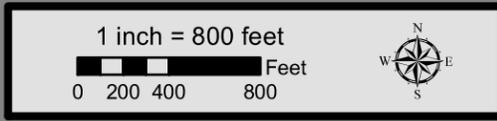
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 210 of 257**

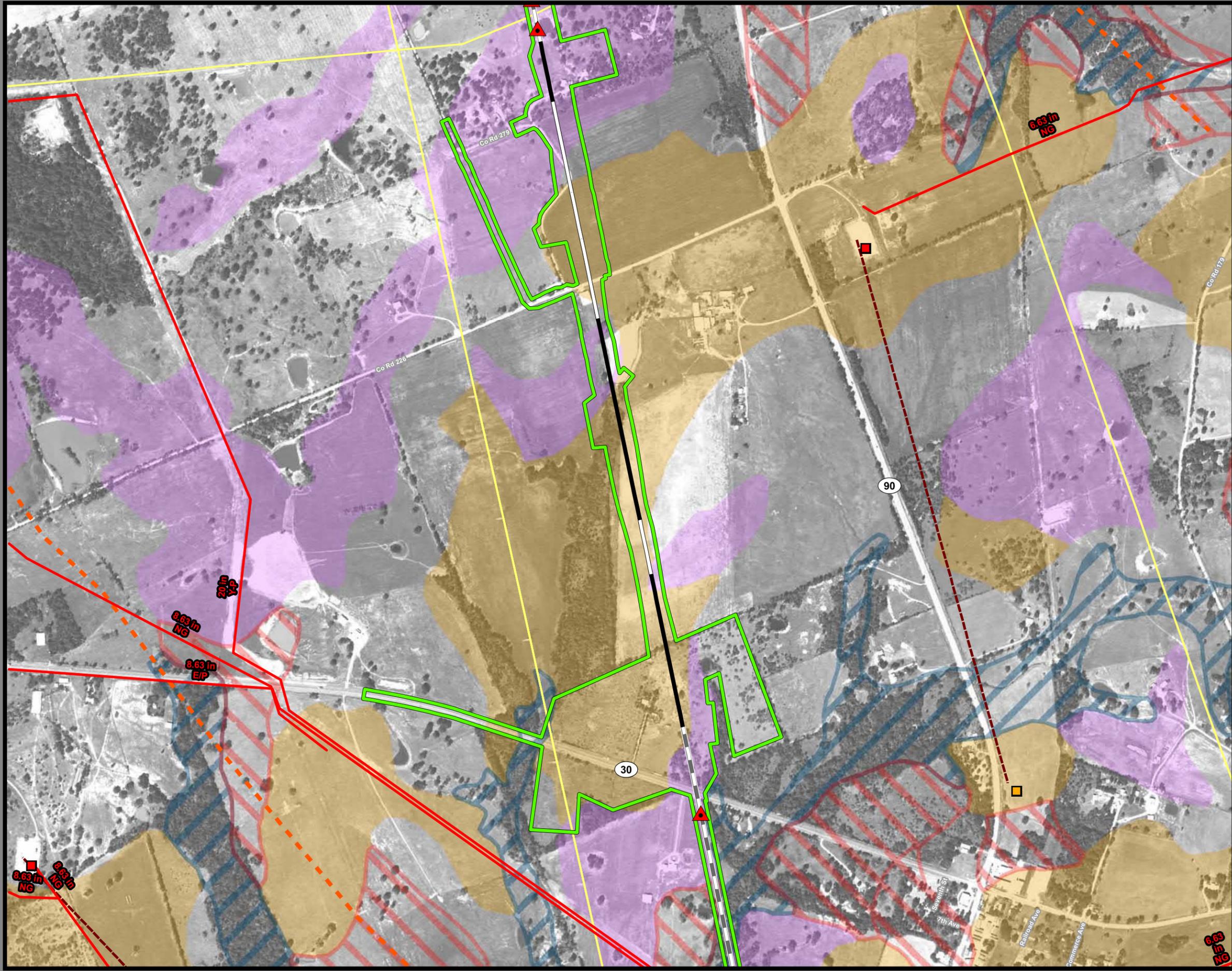
**Legend**

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





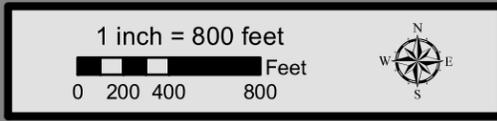
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5, Brazos Valley Terminal  
Sheet 211 of 257**

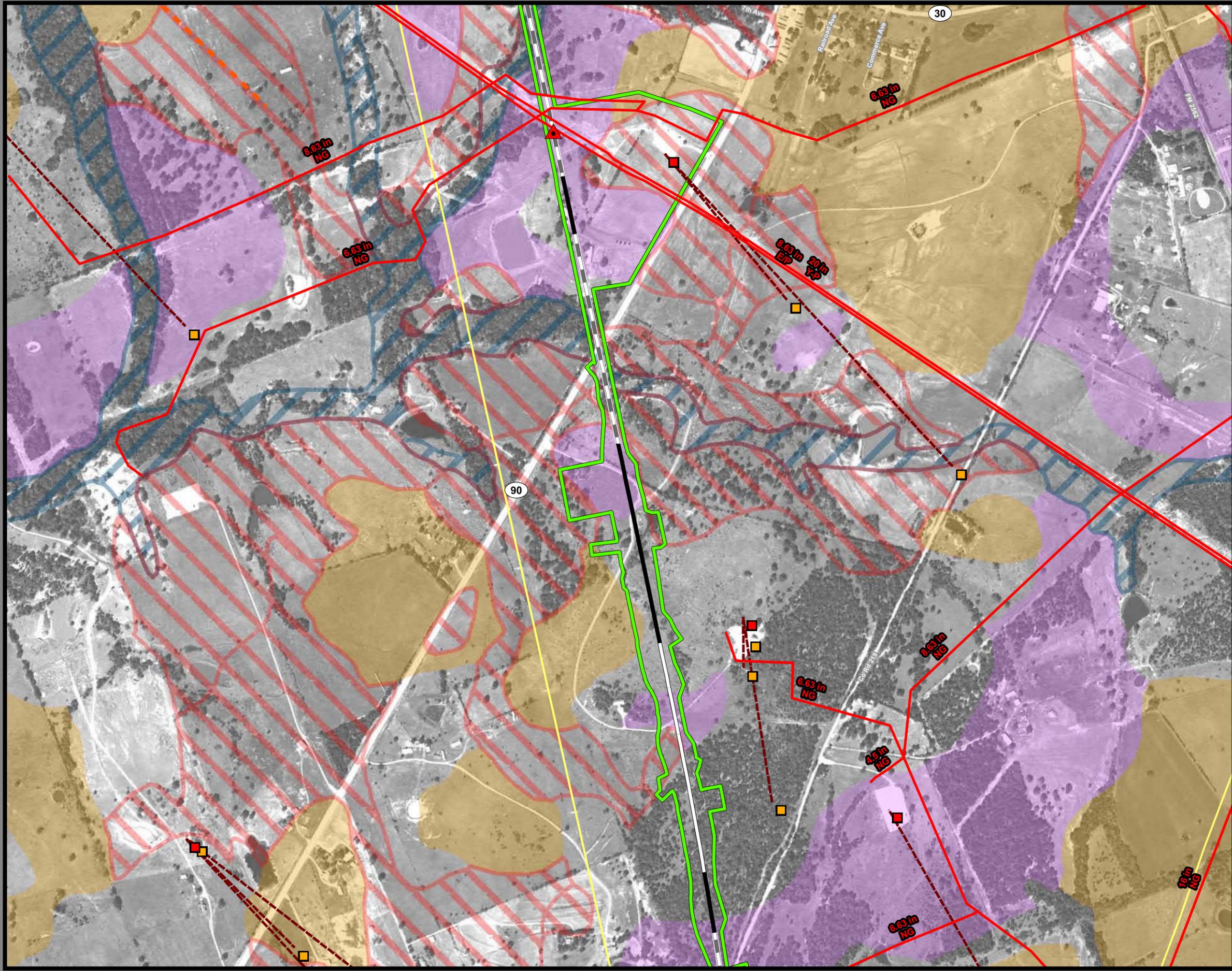
**Legend**

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





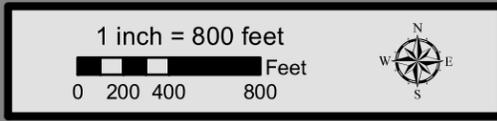
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 212 of 257**

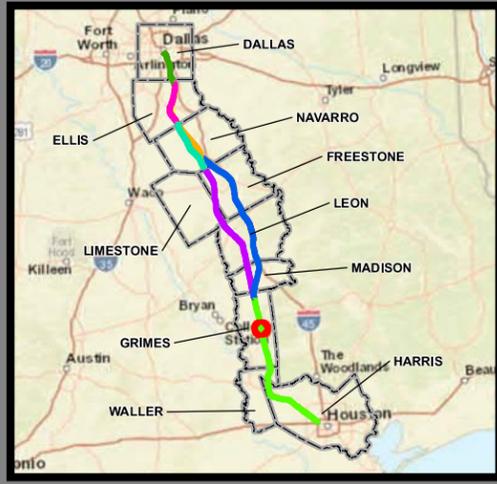
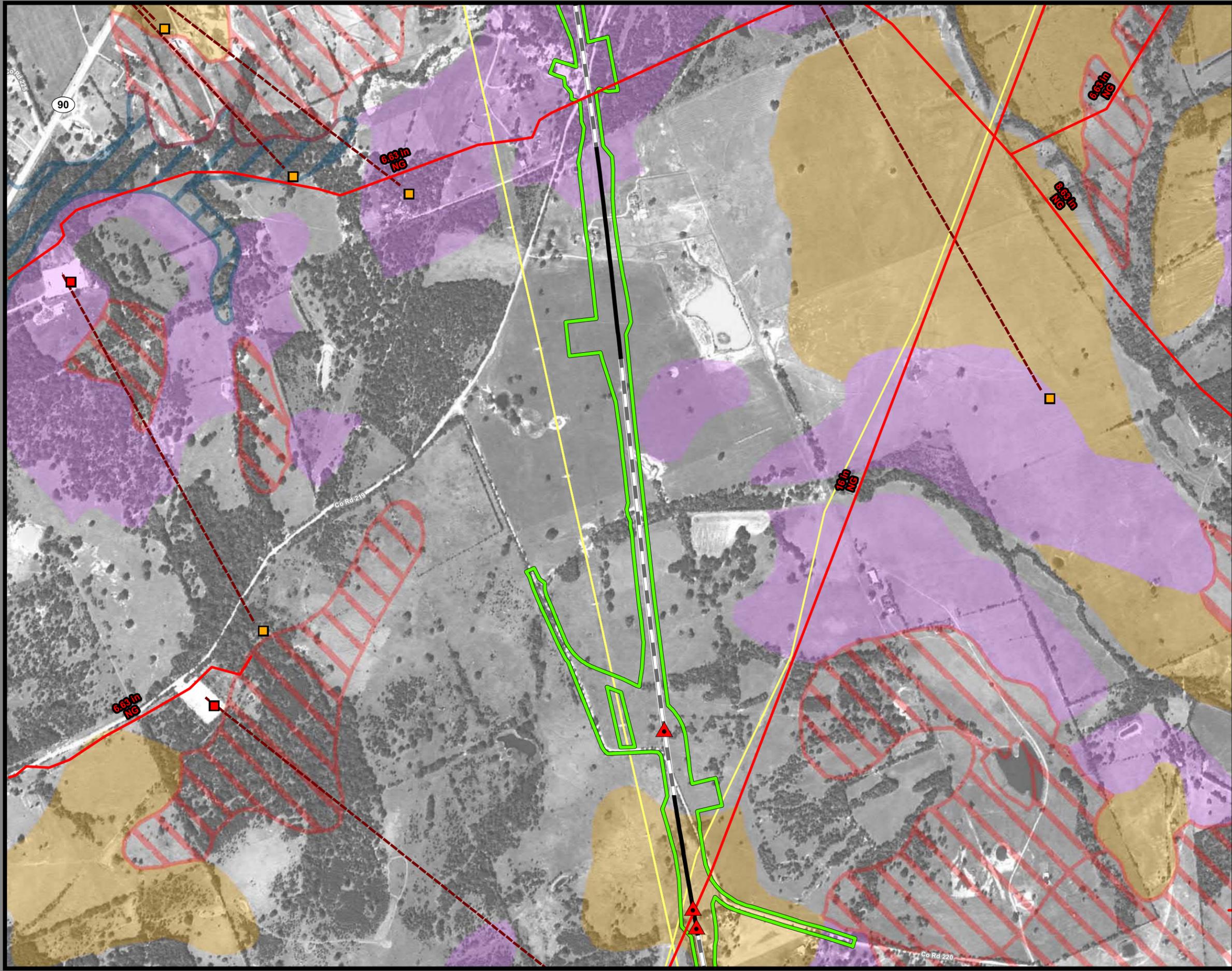
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 213 of 257**

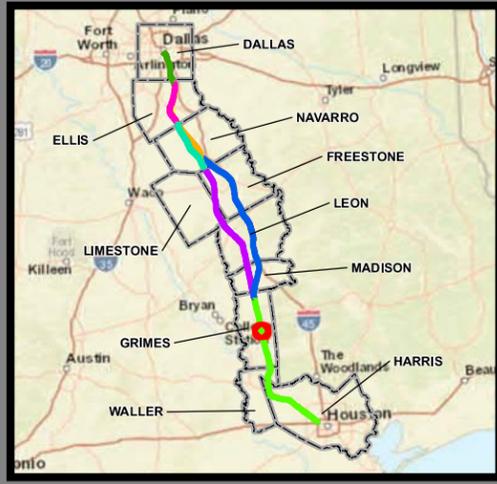
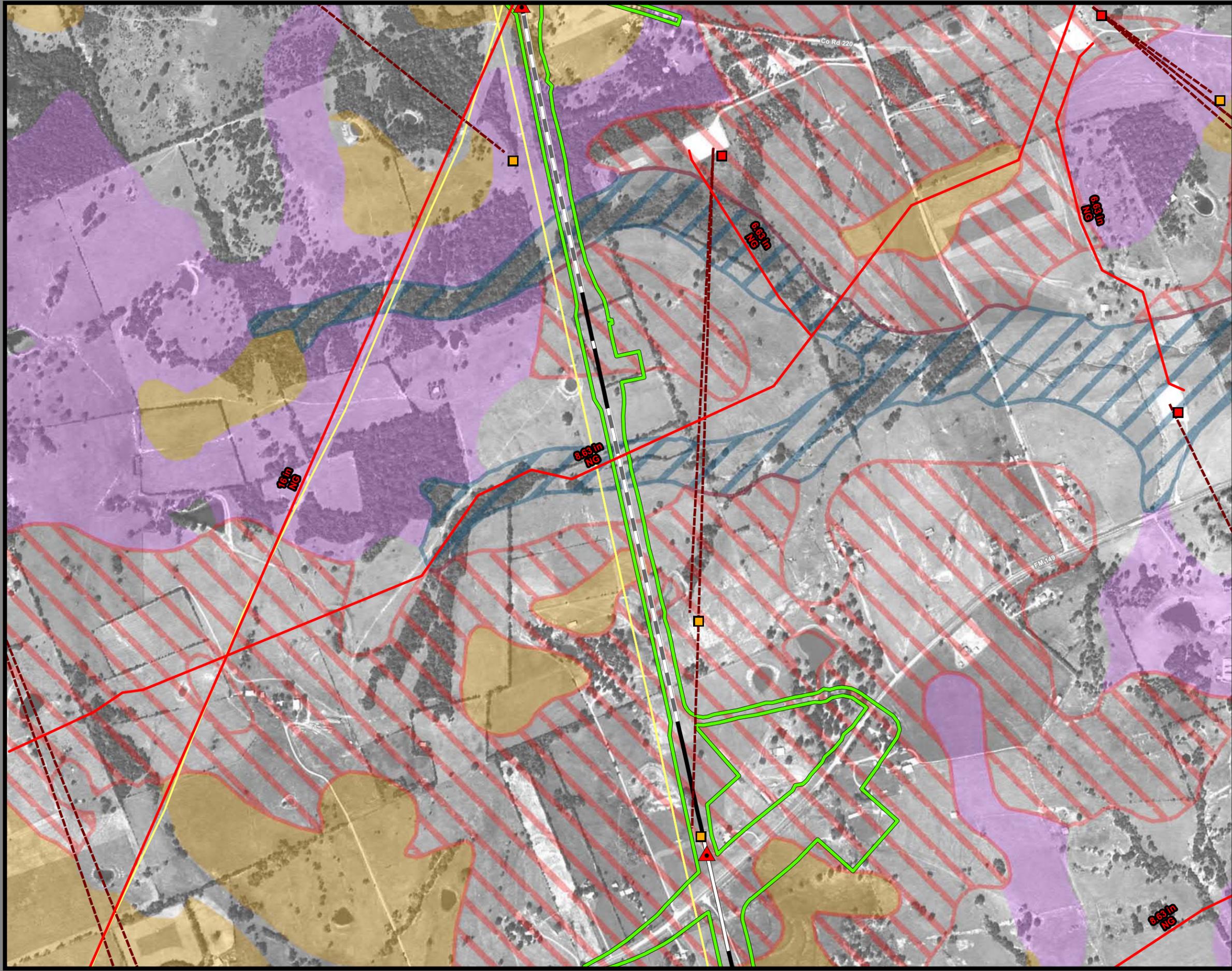
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 214 of 257**

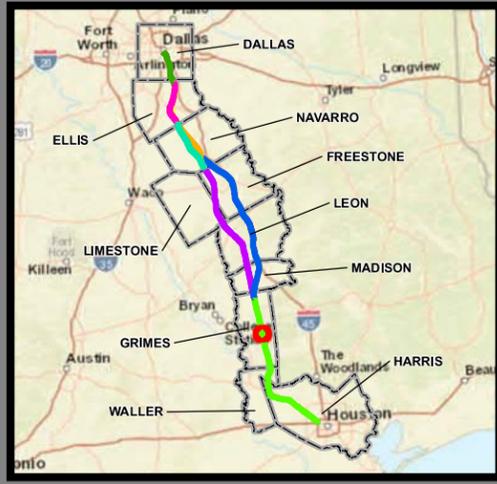
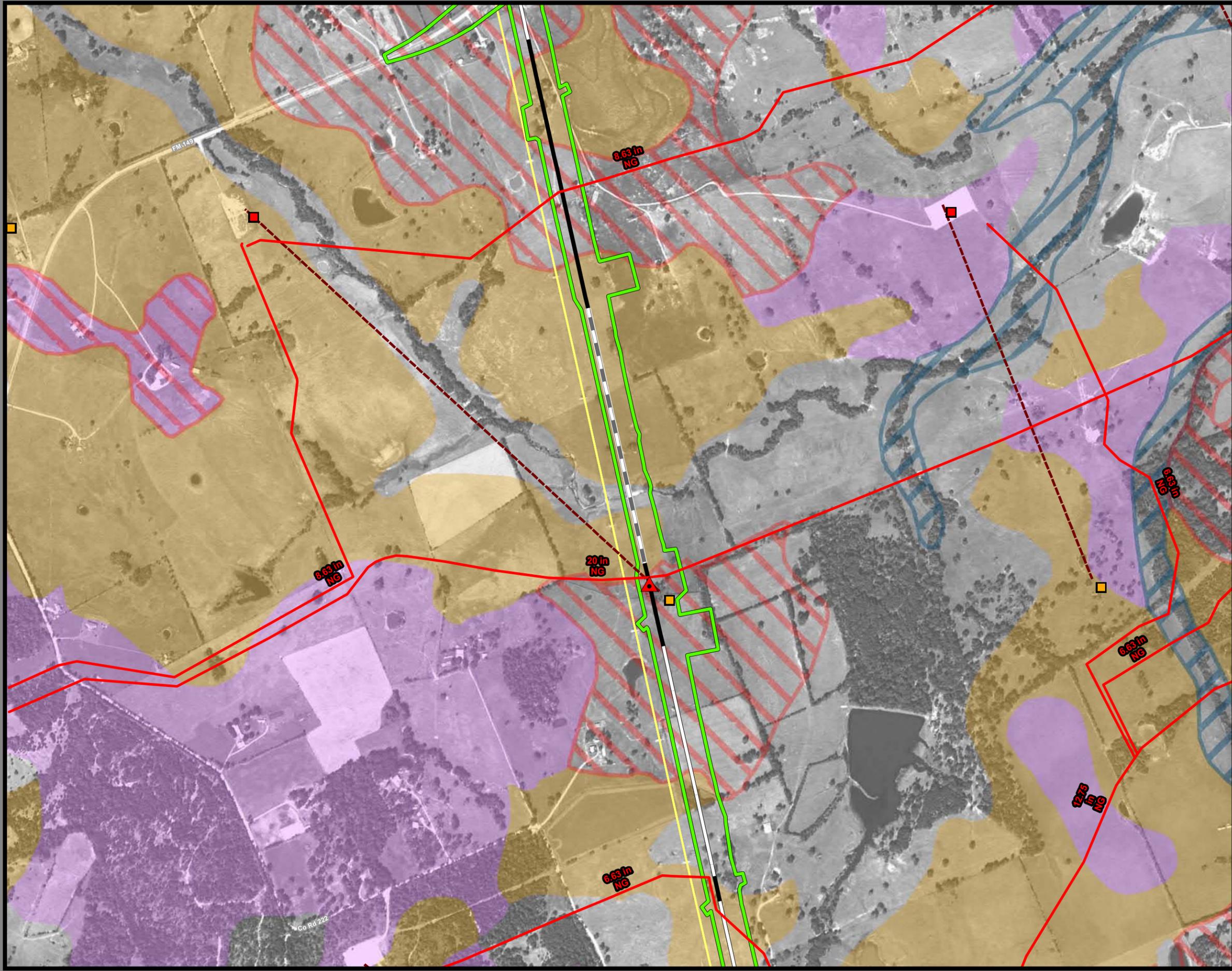
**Legend**

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





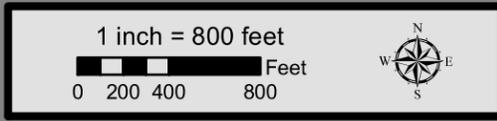
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 215 of 257**

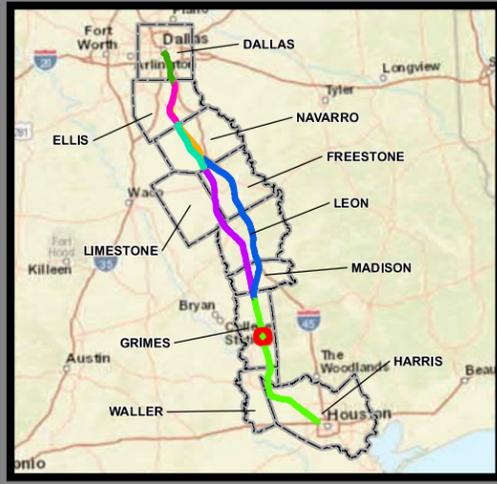
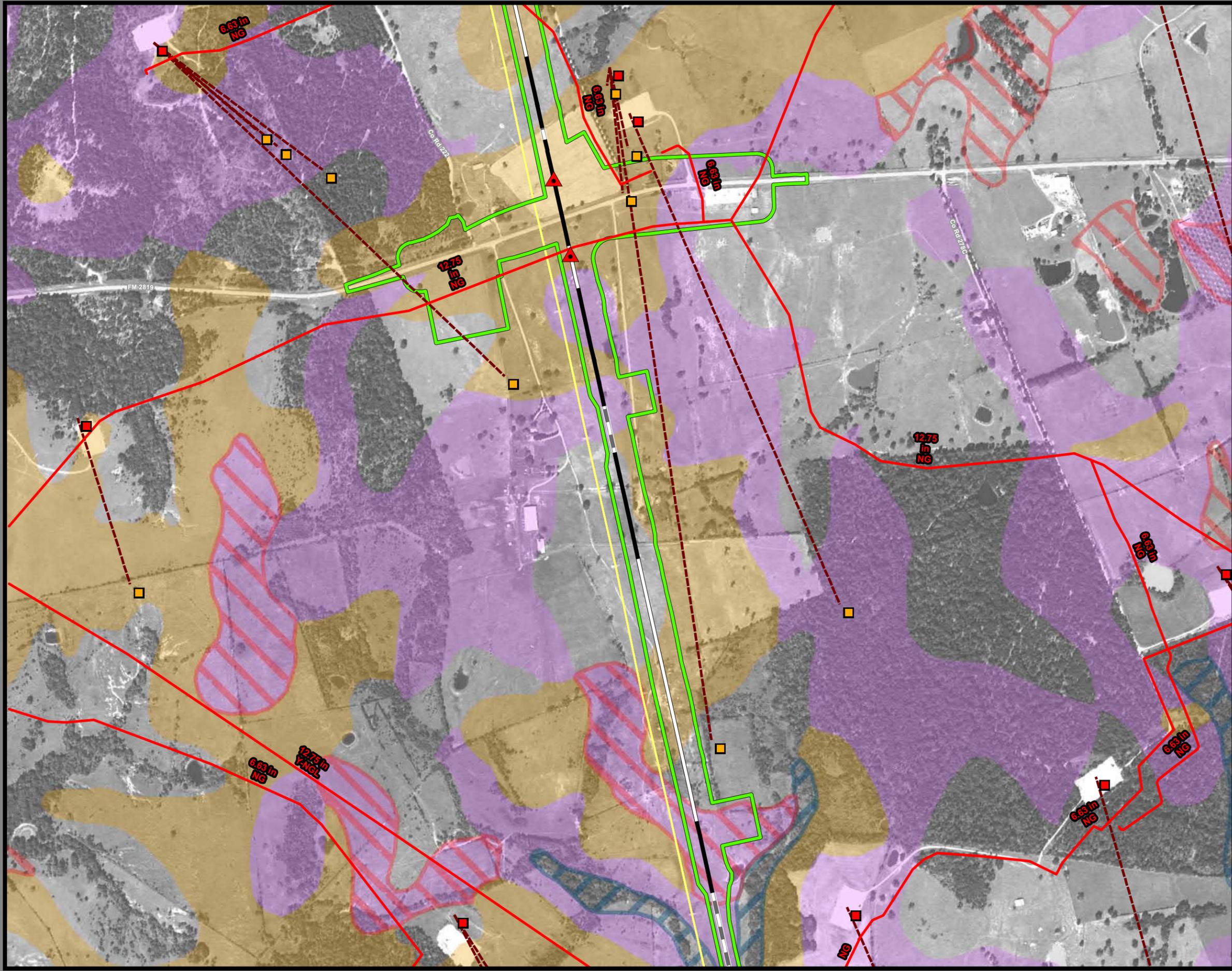
**Legend**

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

**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





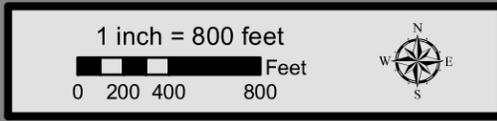
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 216 of 257**

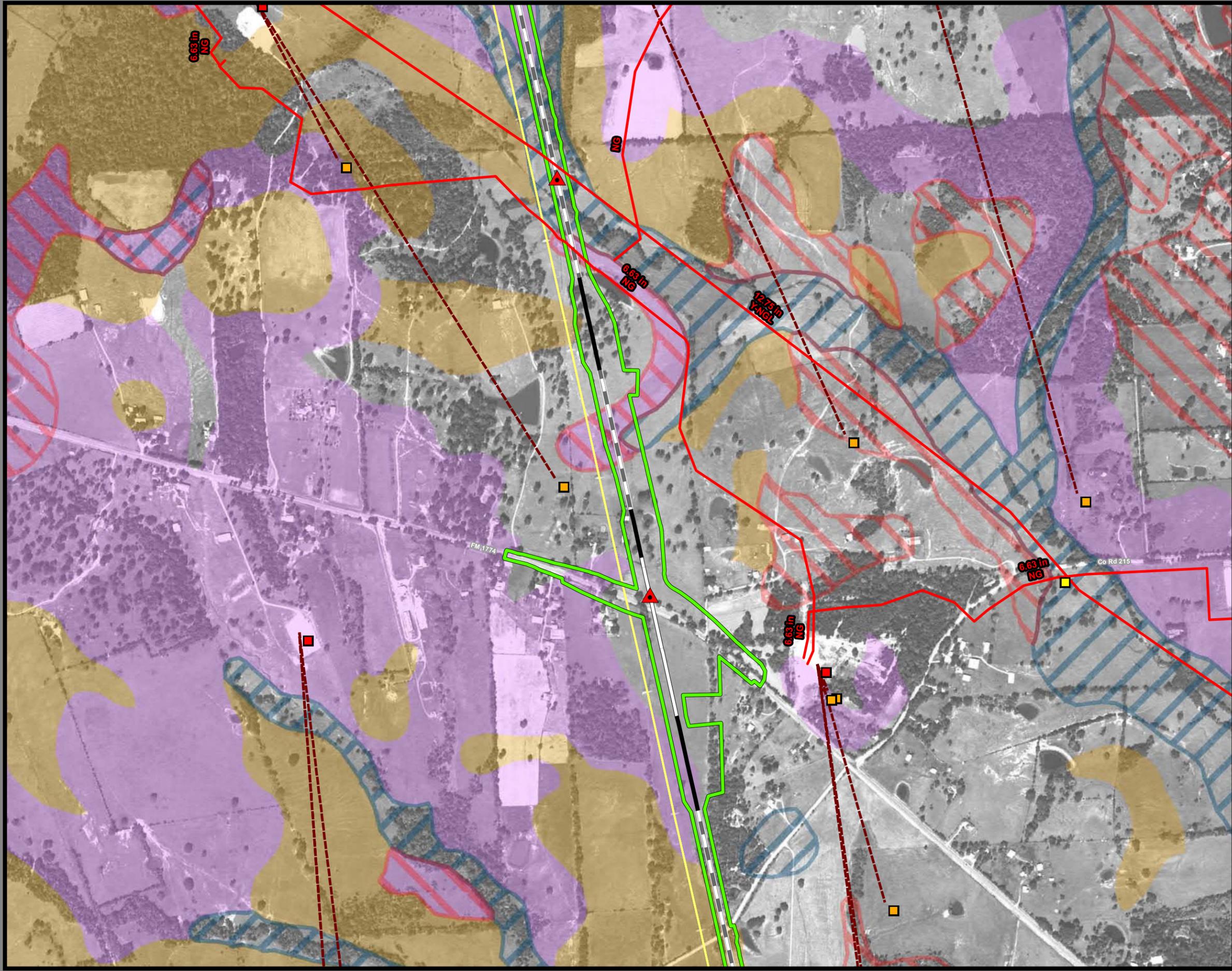
**Legend**

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





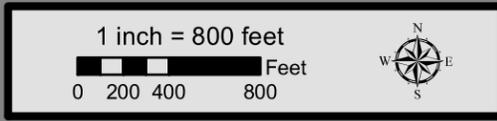
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 217 of 257**

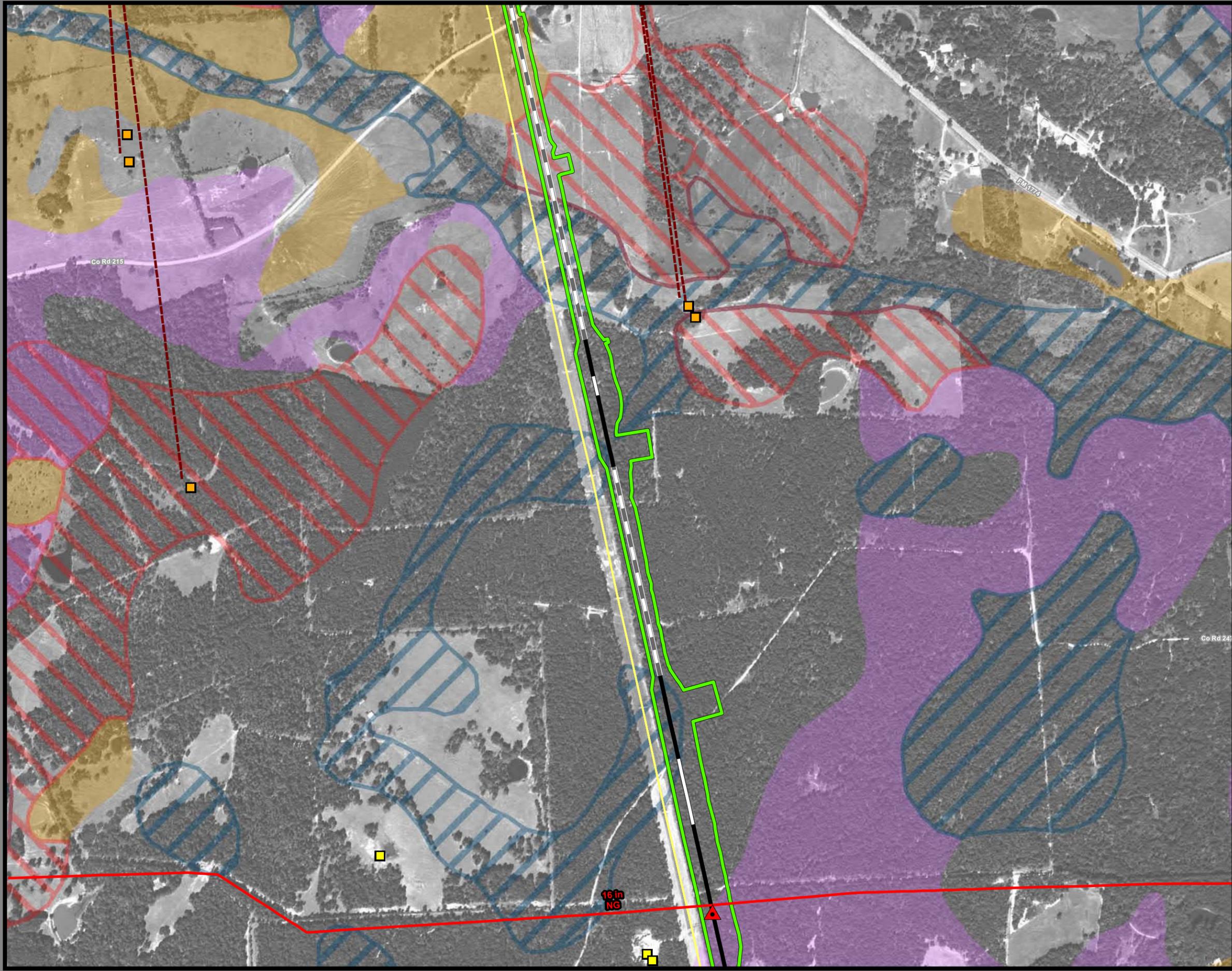
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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; R-PP - 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 5  
Sheet 218 of 257**

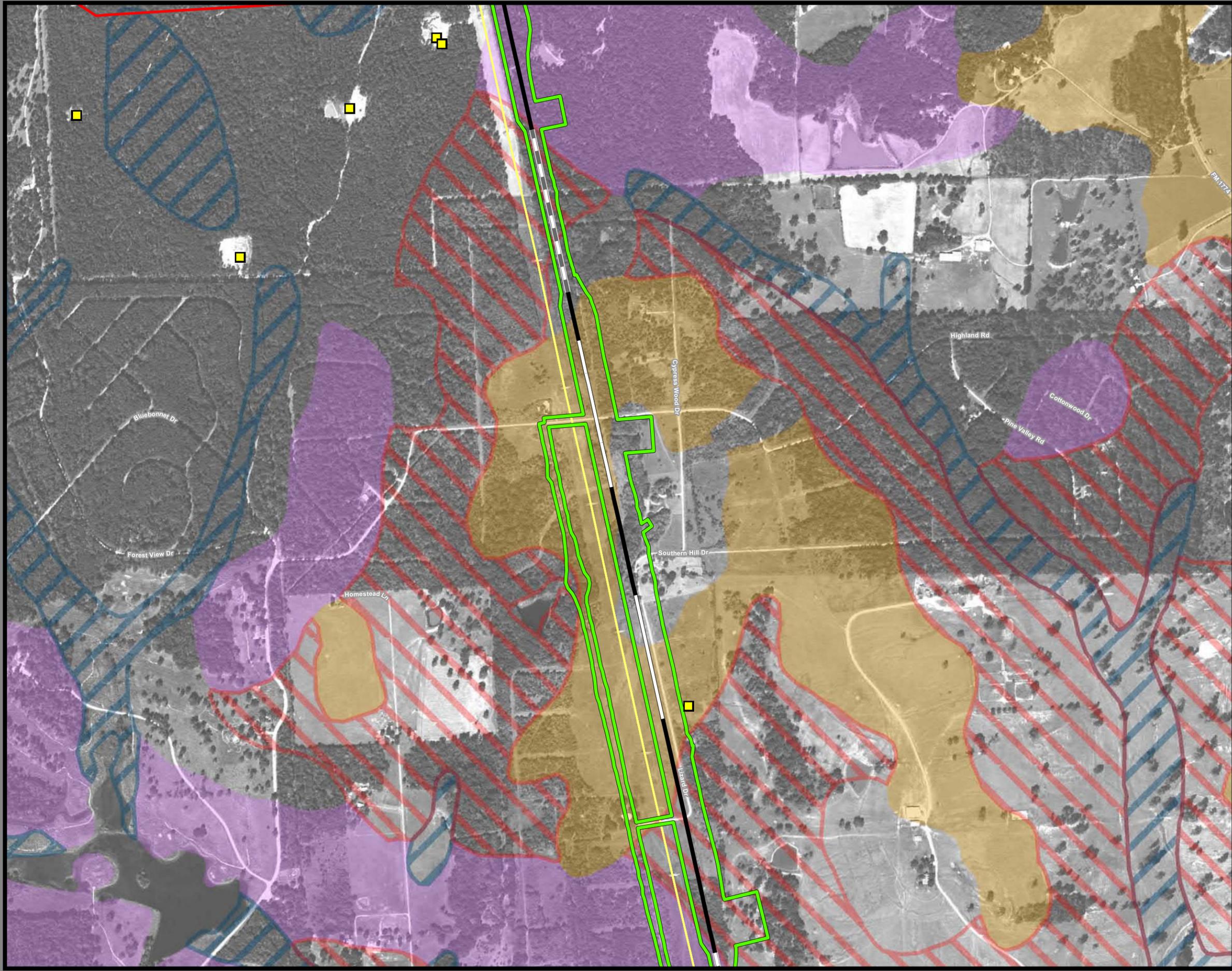
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 219 of 257**

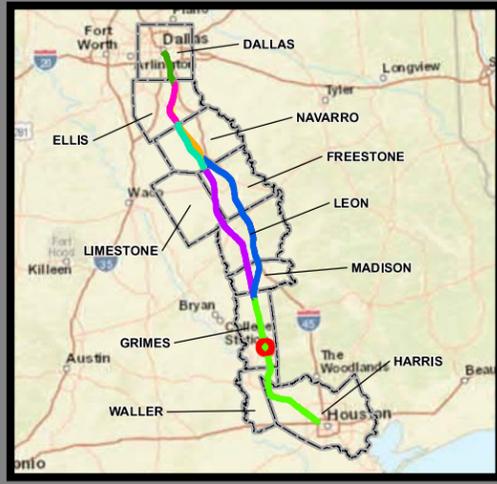
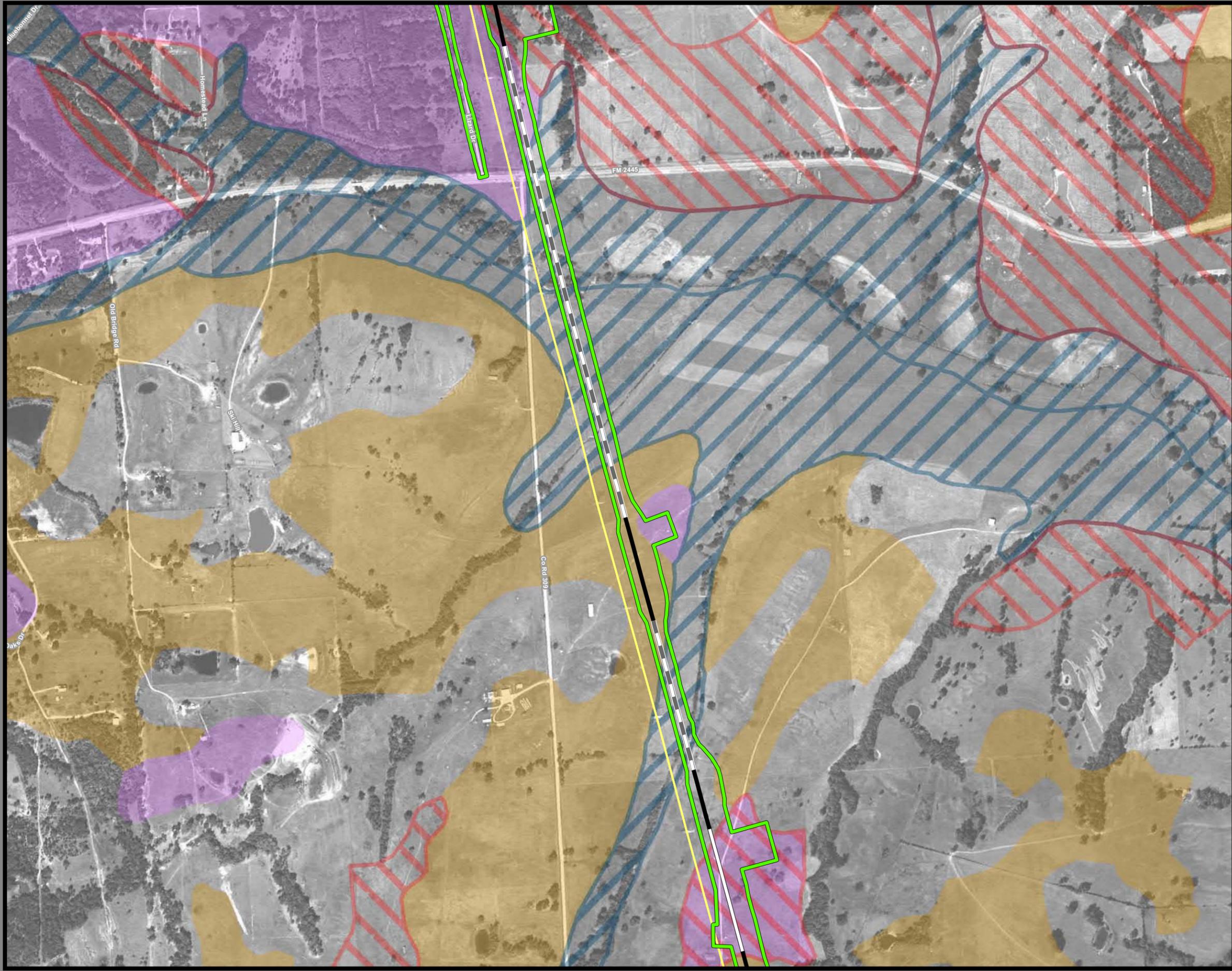
**Legend**

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





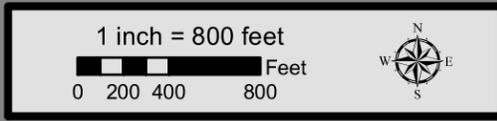
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 220 of 257**

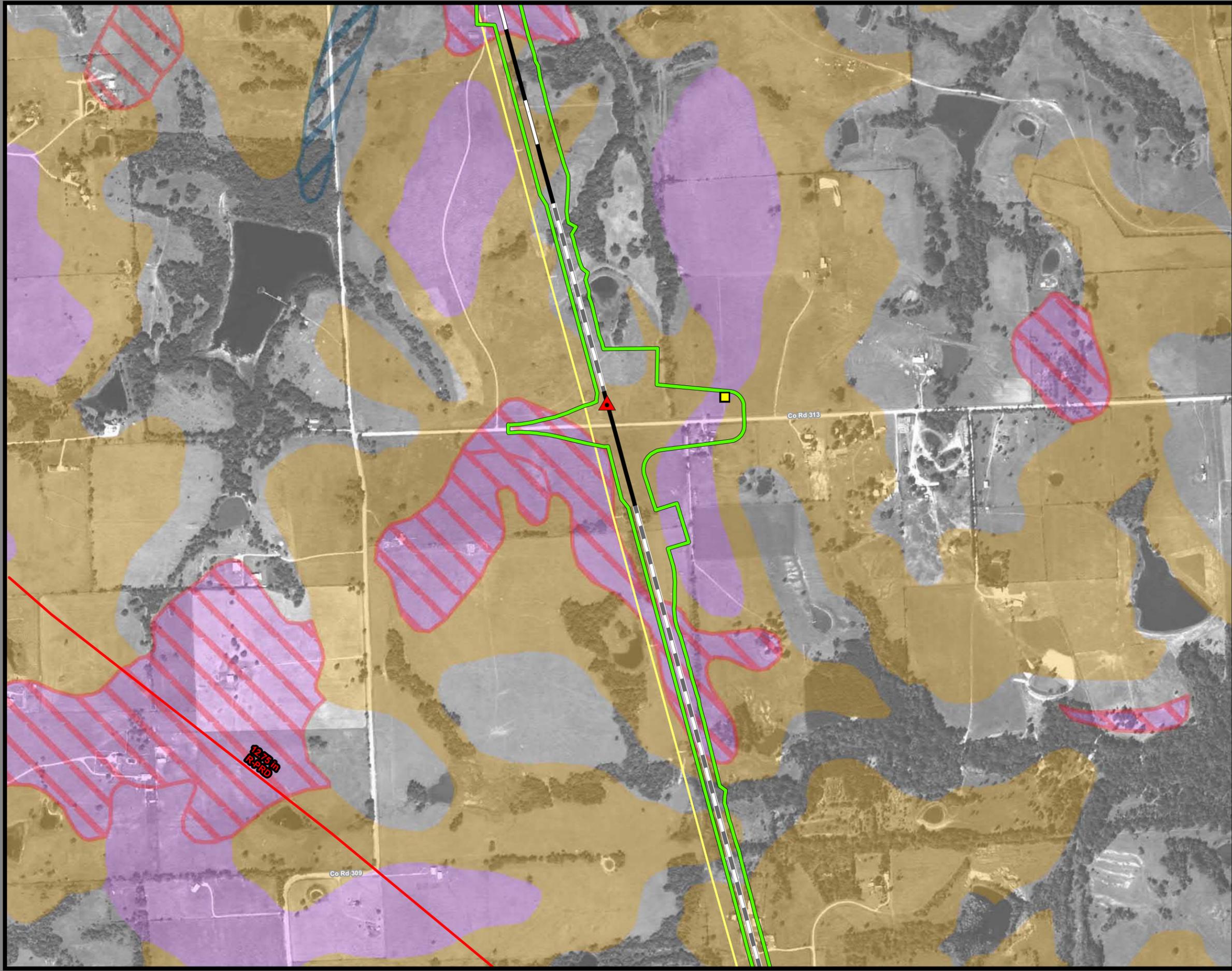
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 221 of 257**

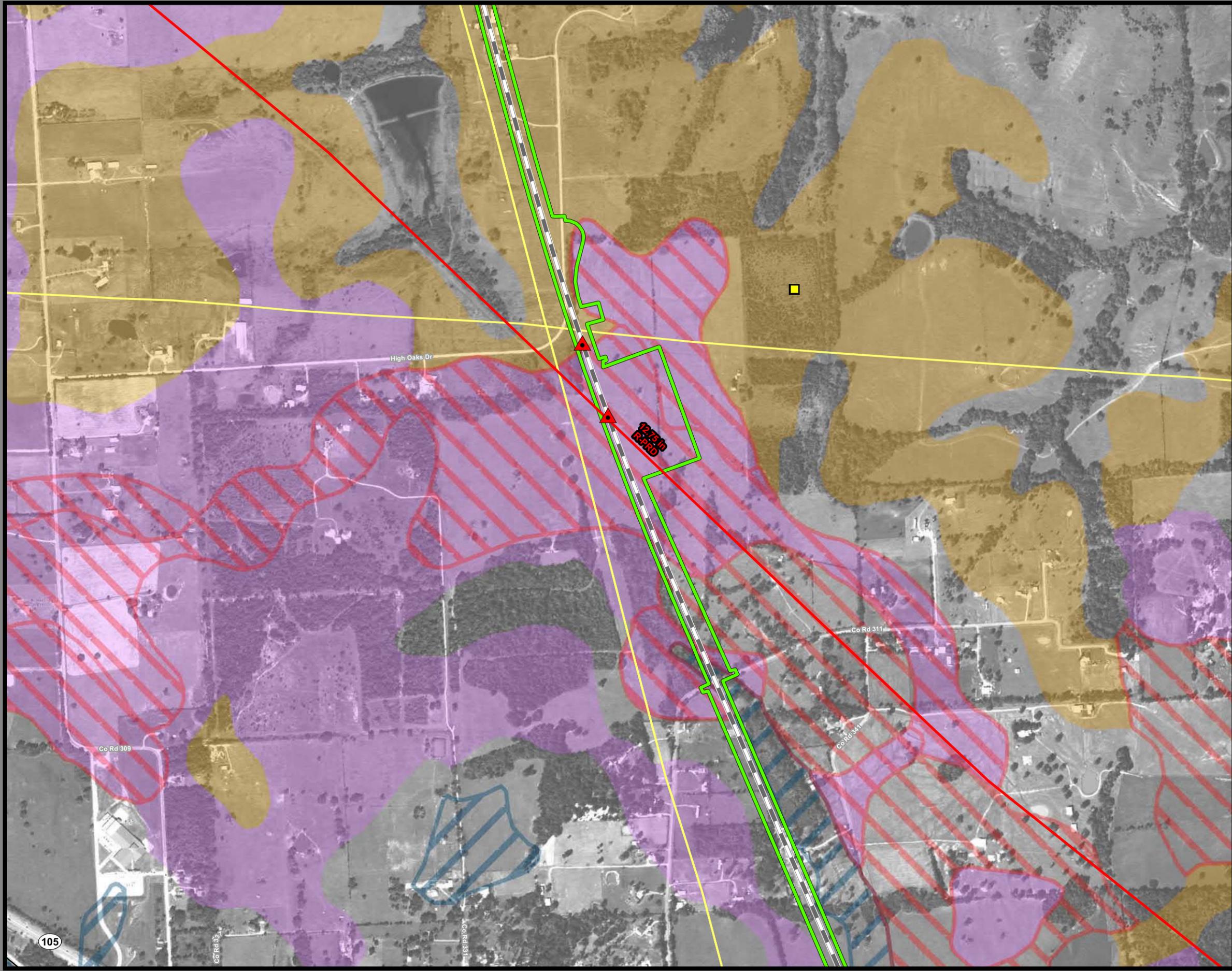
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 222 of 257**

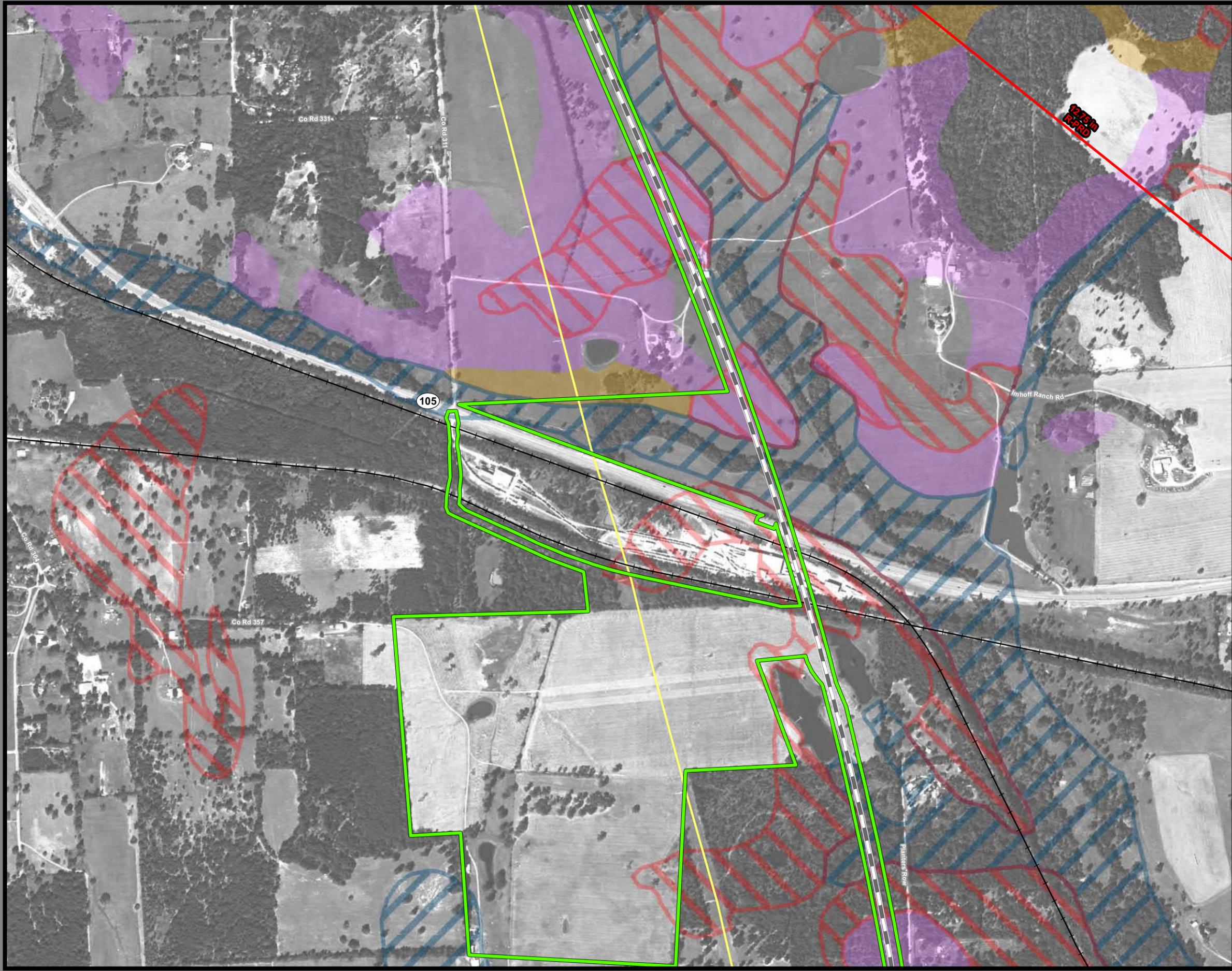
**Legend**

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

**Abbreviated Pipeline Labels:**  
 CRD - Crude Oil; 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 5  
Sheet 223 of 257**

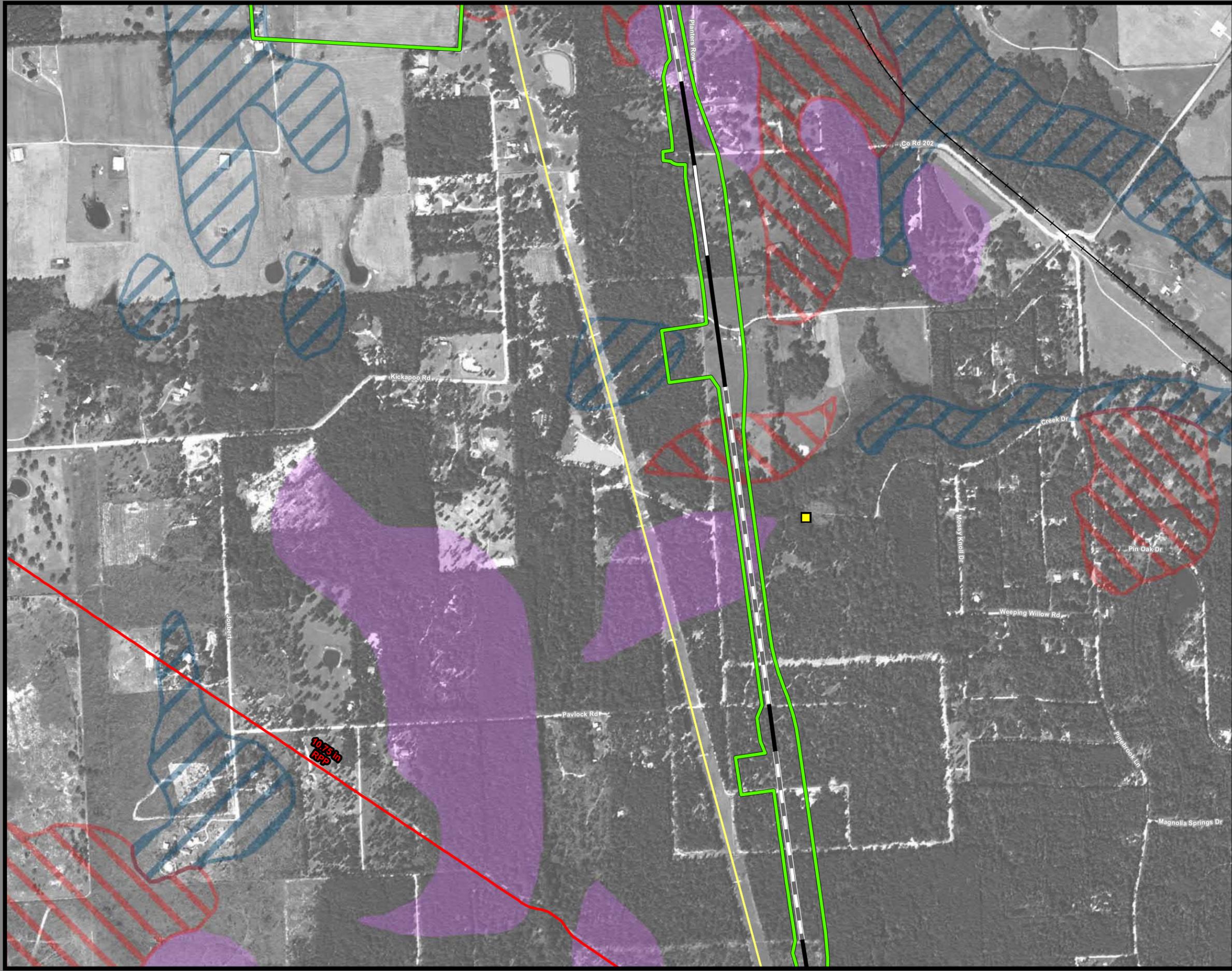
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 224 of 257**

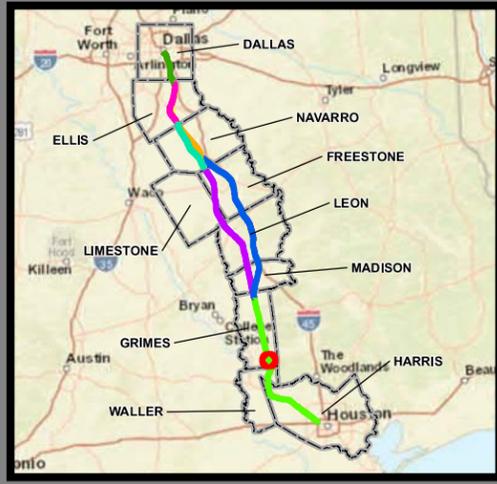
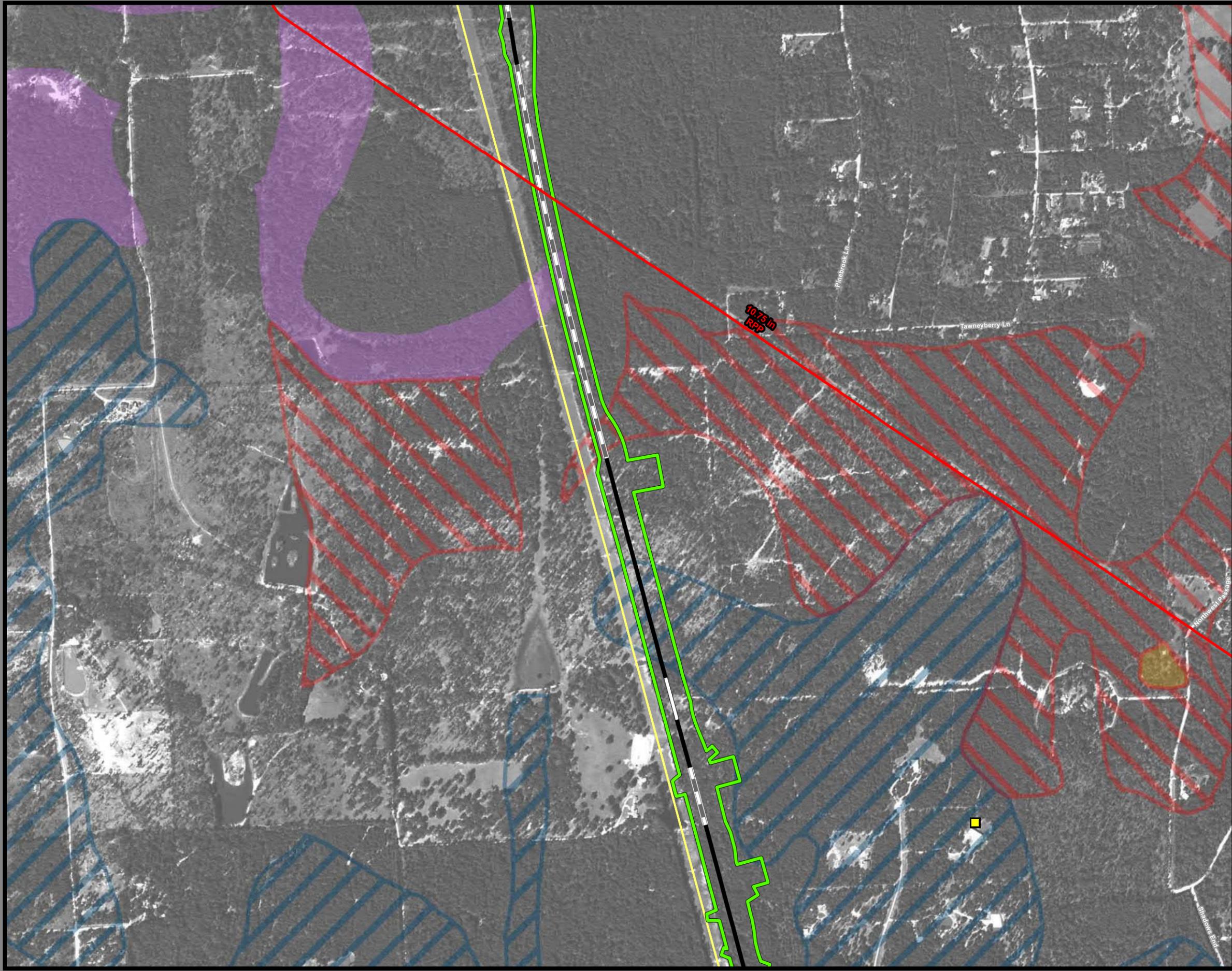
**Legend**

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





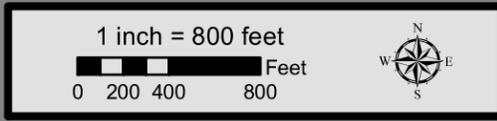
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 225 of 257**

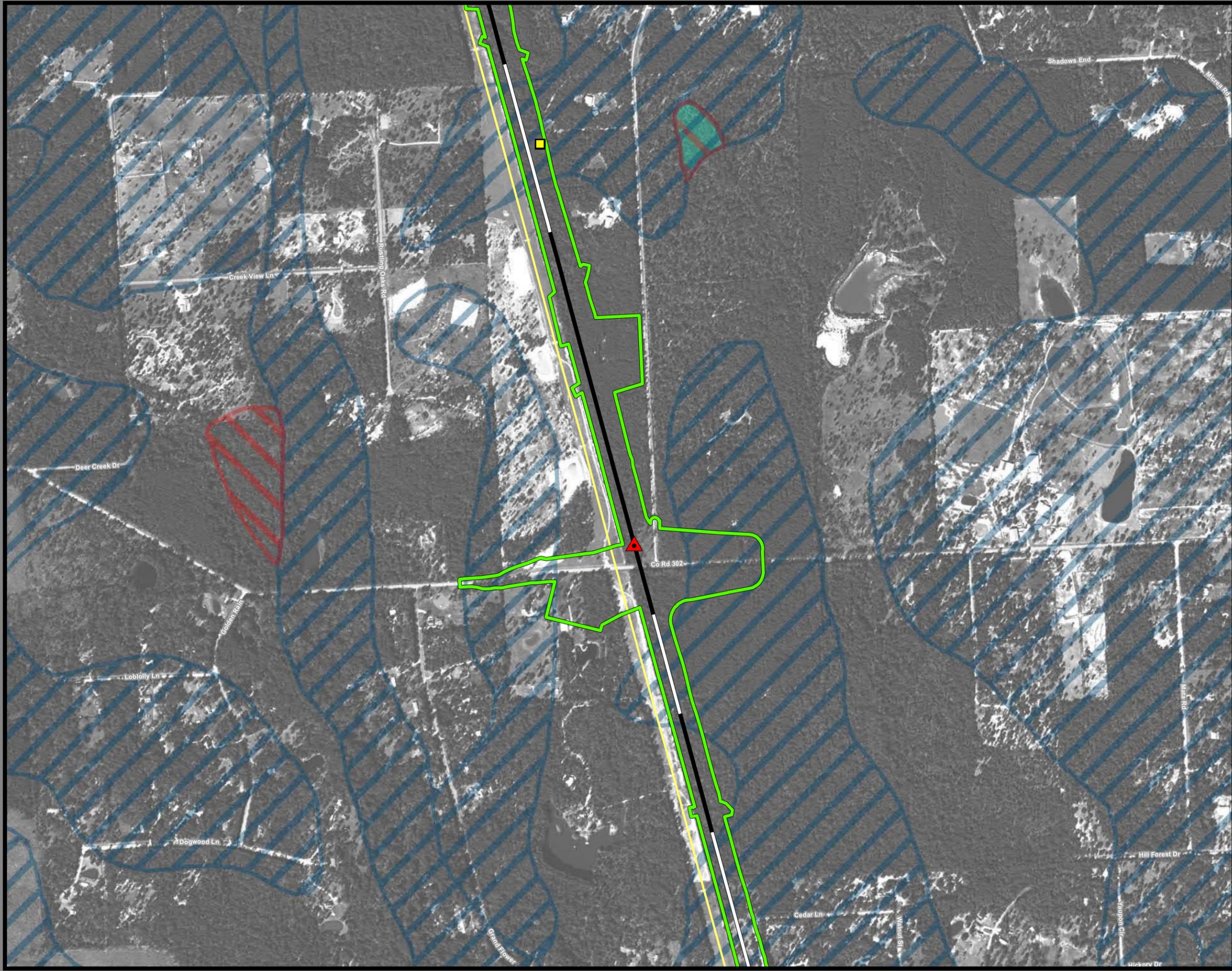
**Legend**

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





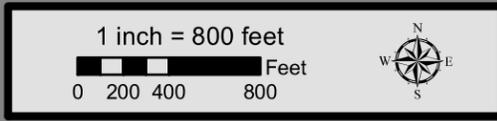
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 226 of 257**

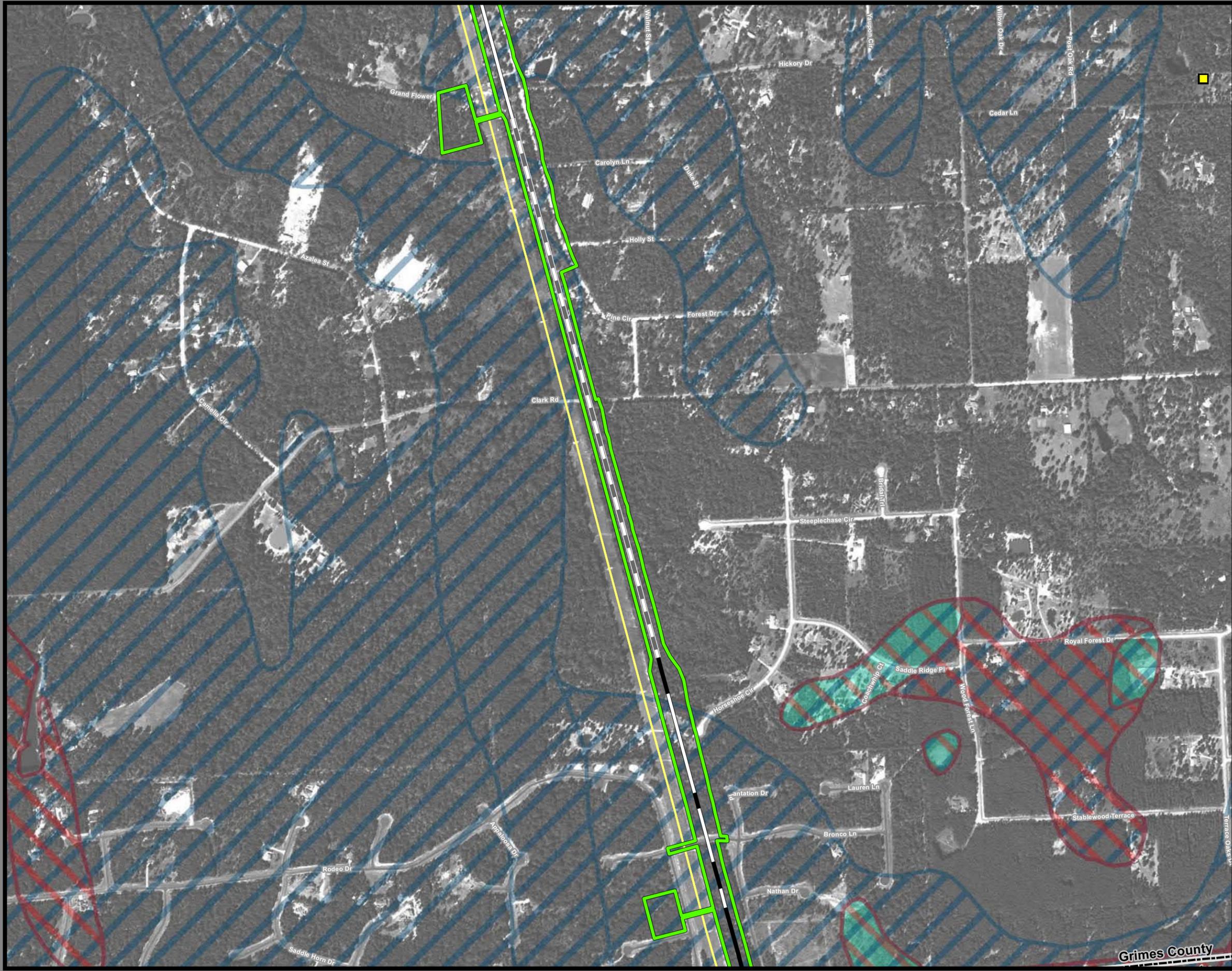
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 227 of 257**

**Legend**

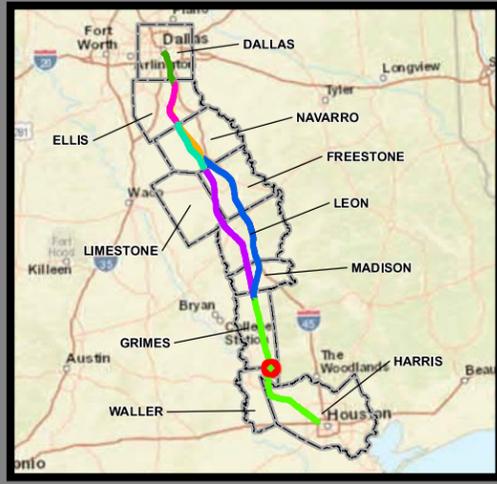
<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>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



**Grimes County**



**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 228 of 257**

**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	<b>Oil/Gas Wells</b>
Segment 3B	Vertical
Segment 3C	Directional: Surface
Segment 4	Directional: Bottom
Segment 5	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	<b>Soils</b>
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; 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 5  
Sheet 229 of 257**

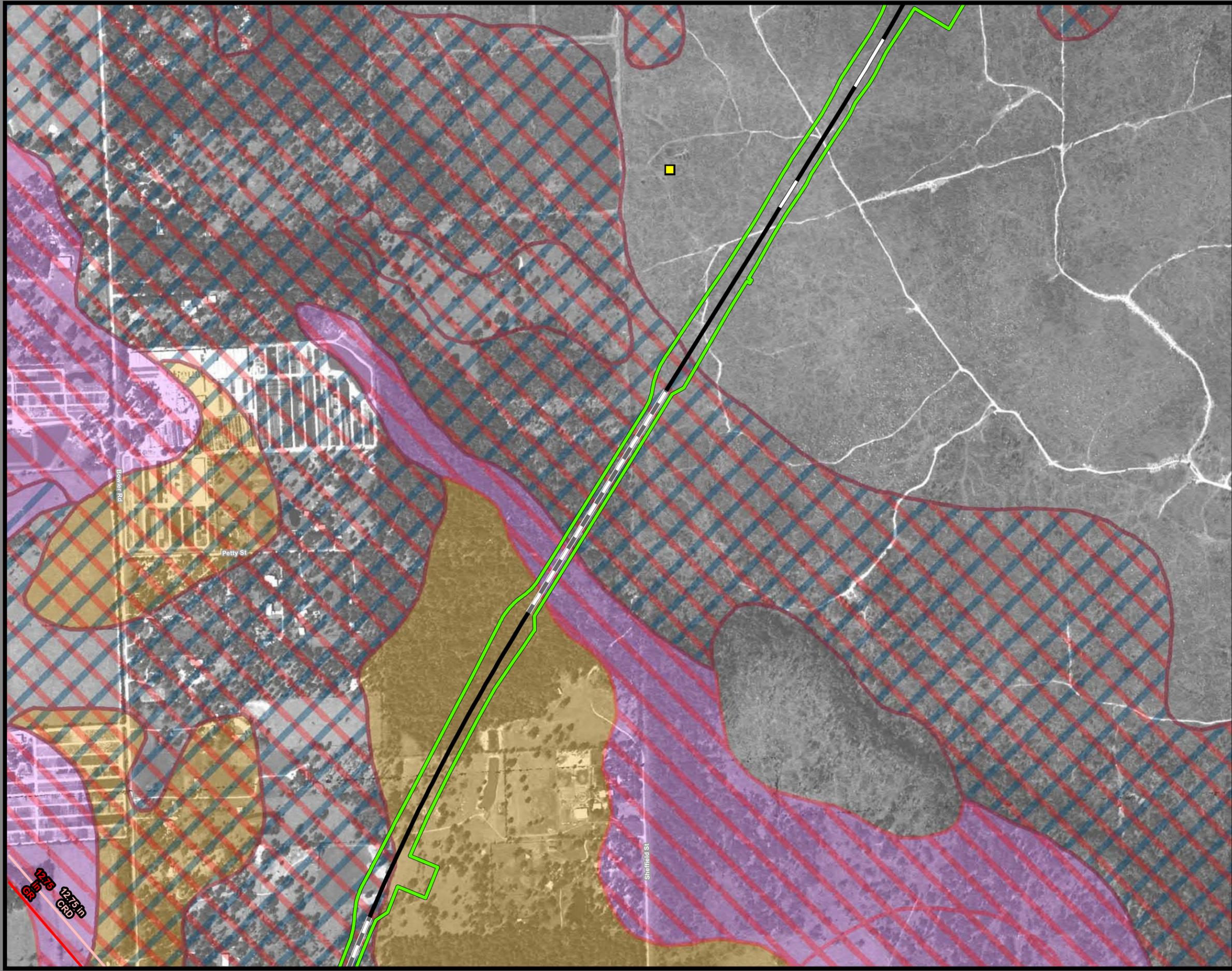
**Legend**

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





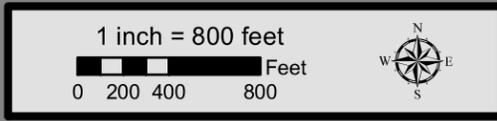
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 230 of 257**

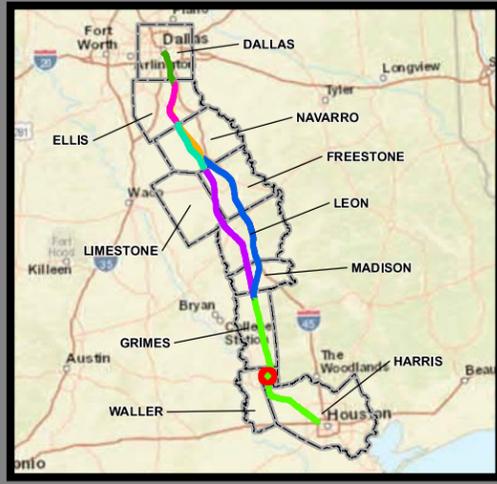
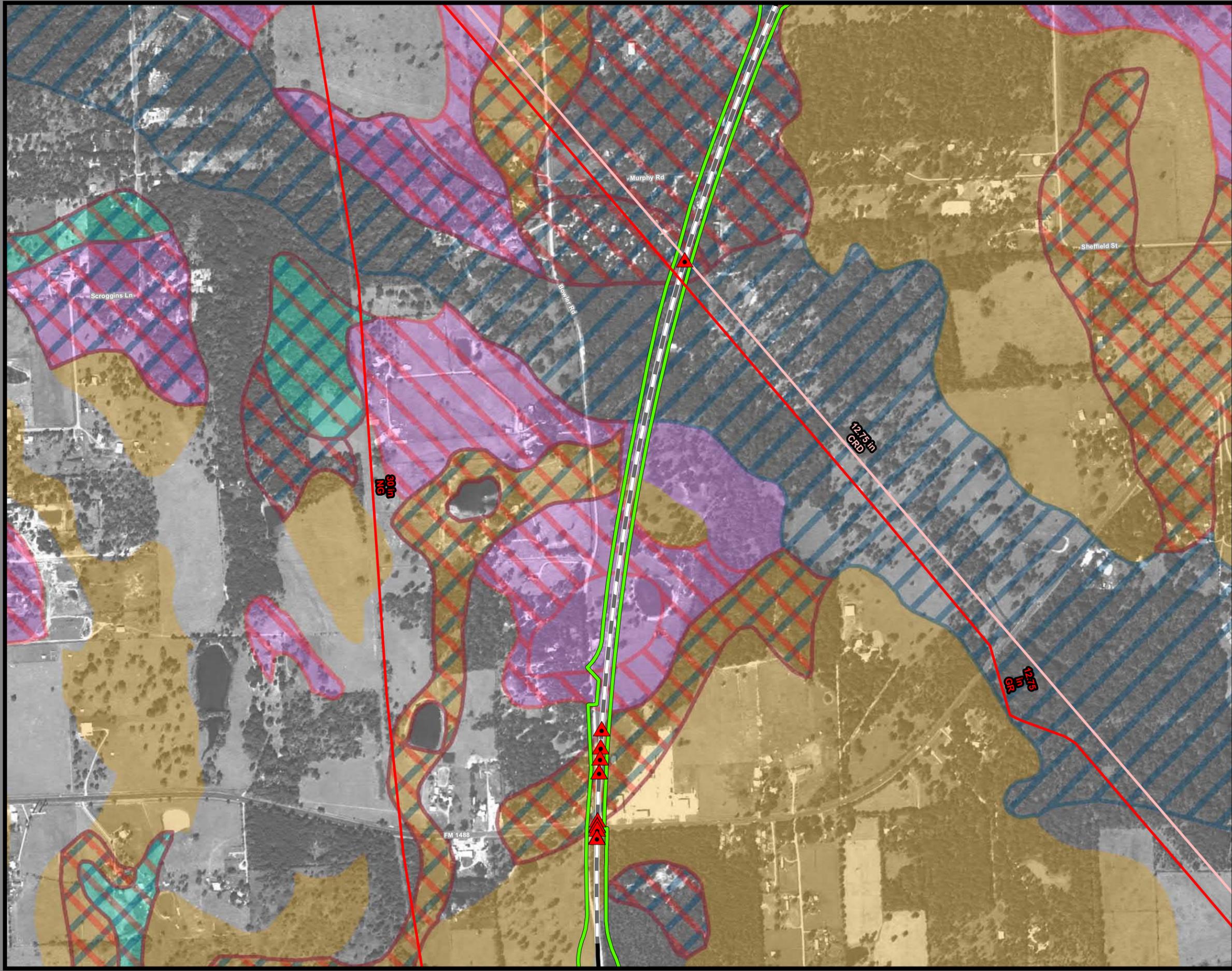
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 231 of 257**

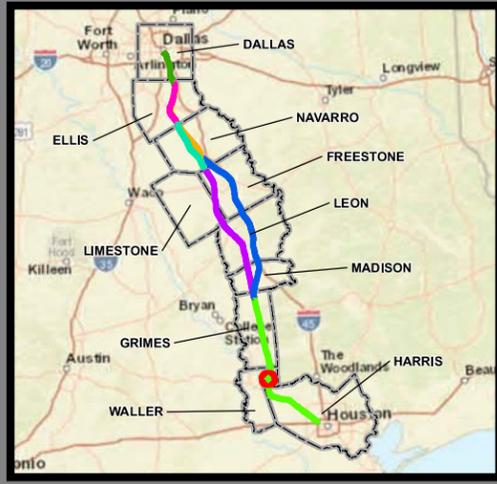
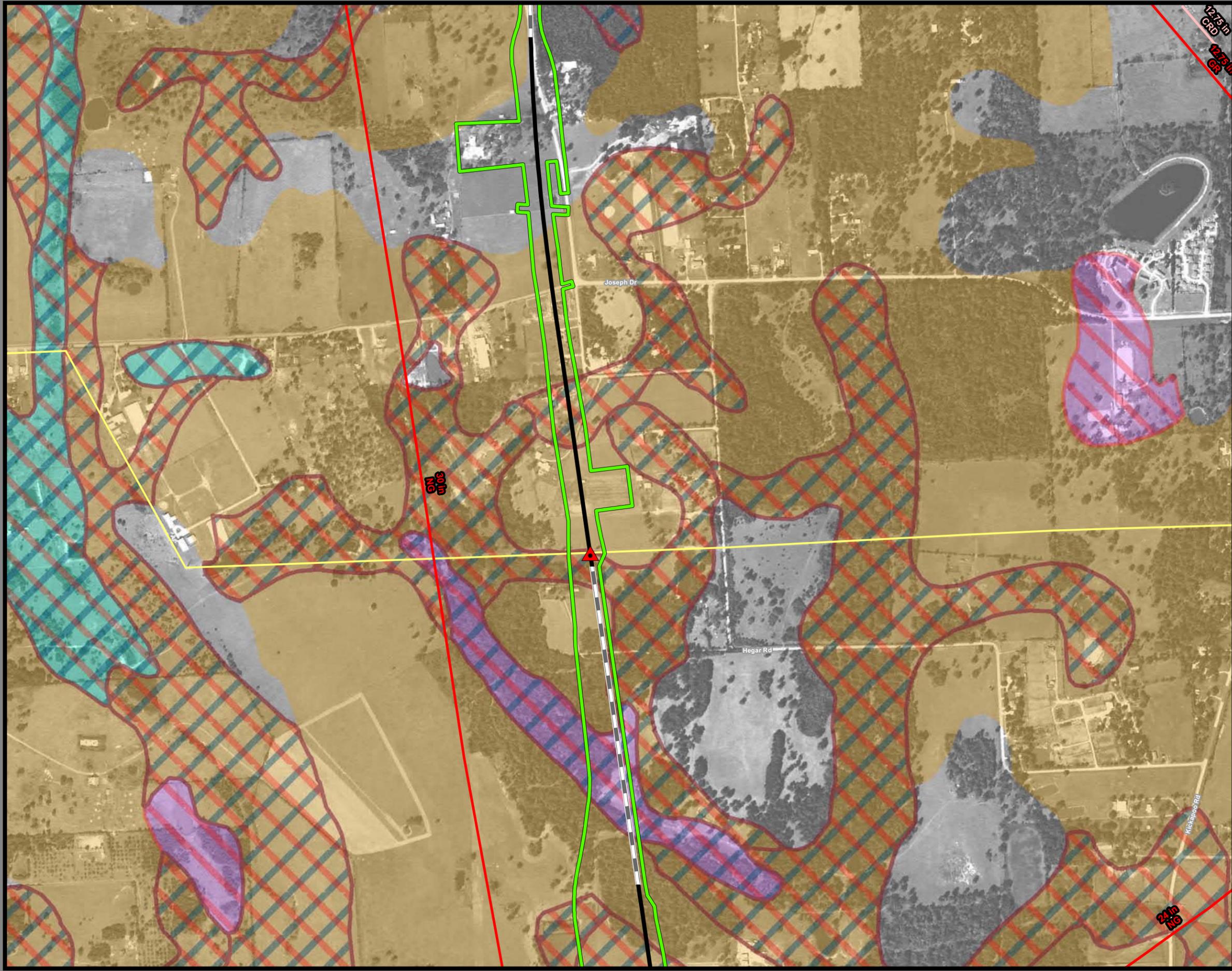
**Legend**

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





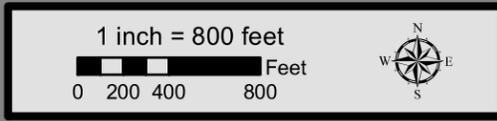
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 232 of 257**

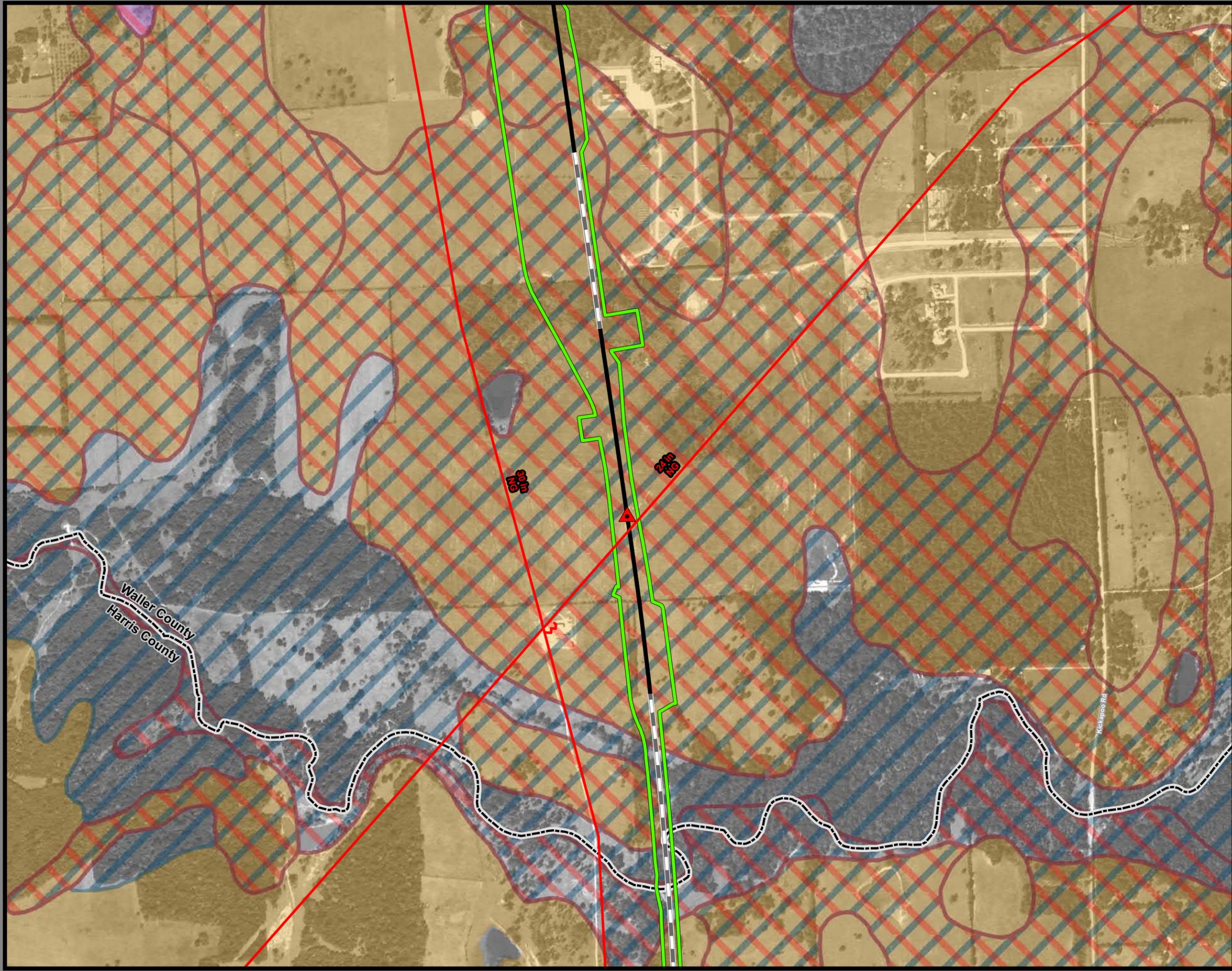
**Legend**

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





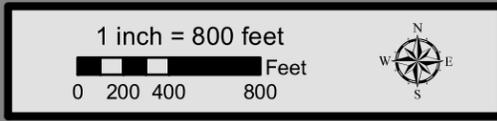
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 233 of 257**

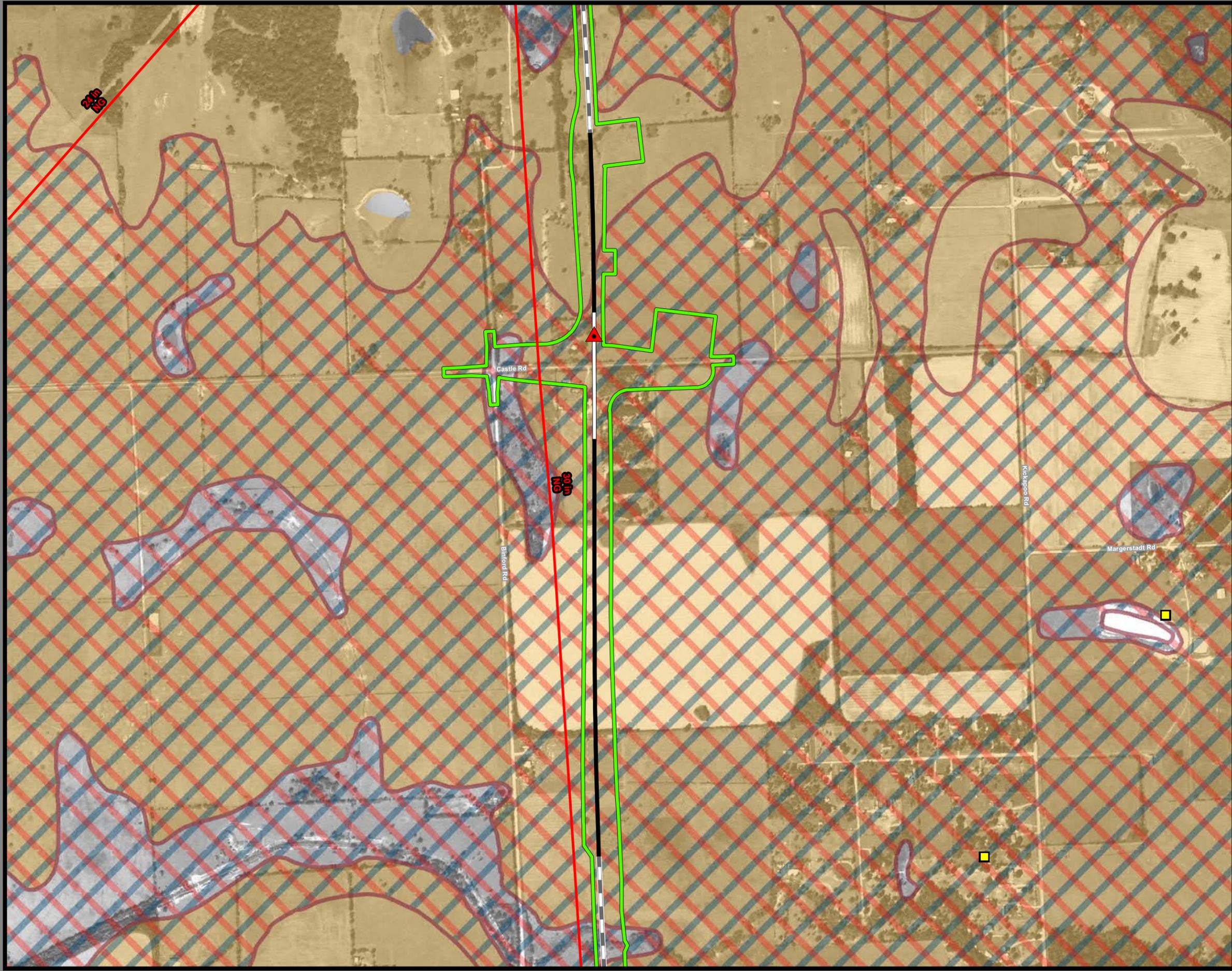
**Legend**

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

**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





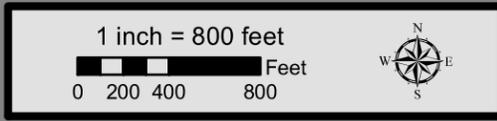
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 234 of 257**

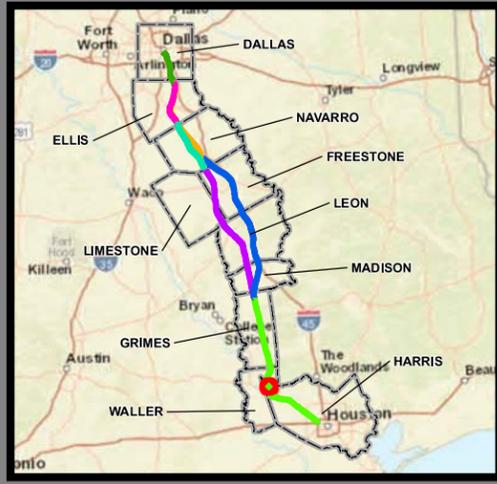
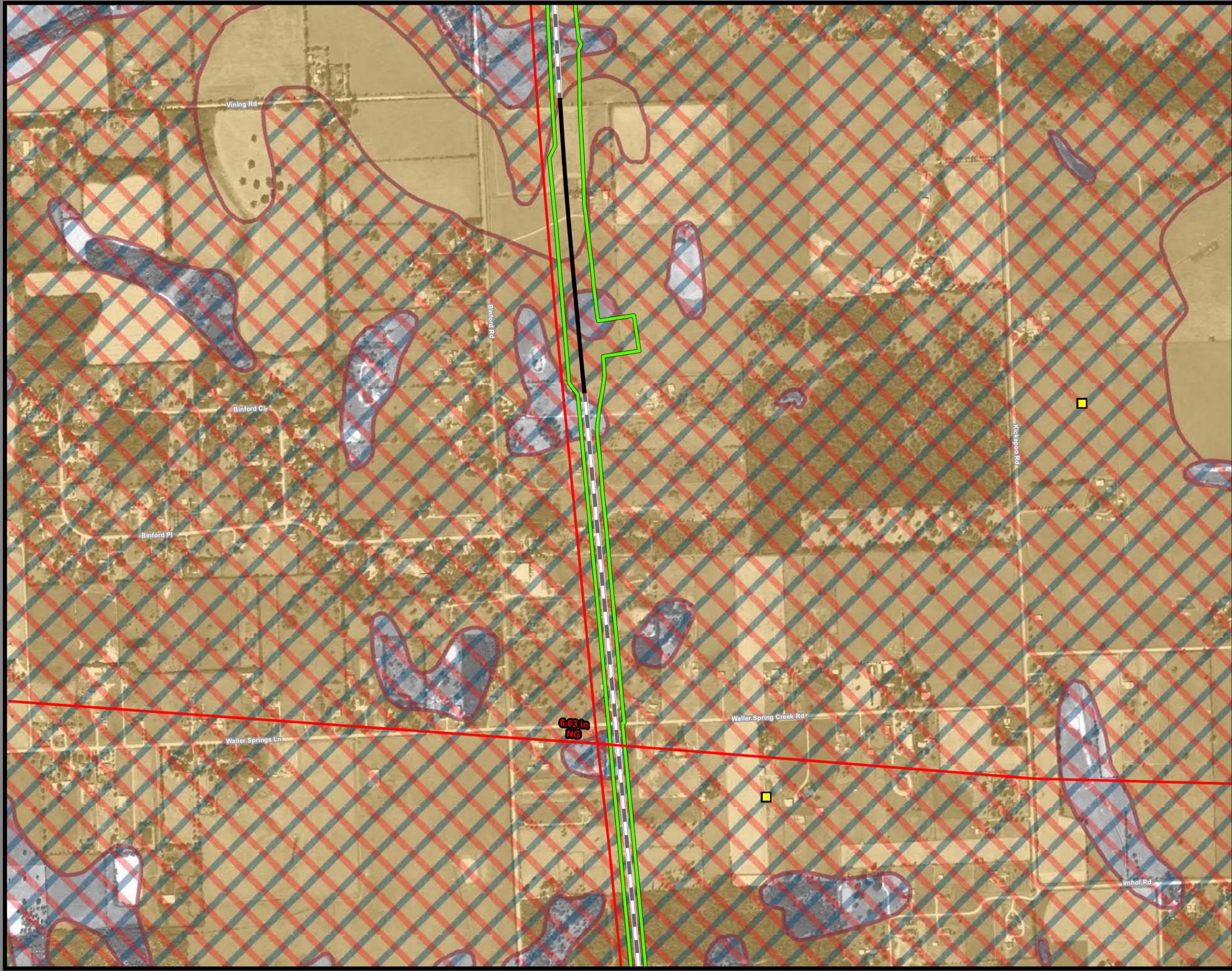
**Legend**

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

**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





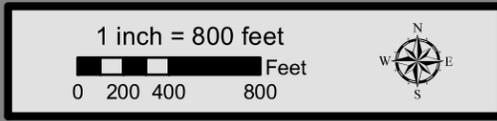
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 235 of 257**

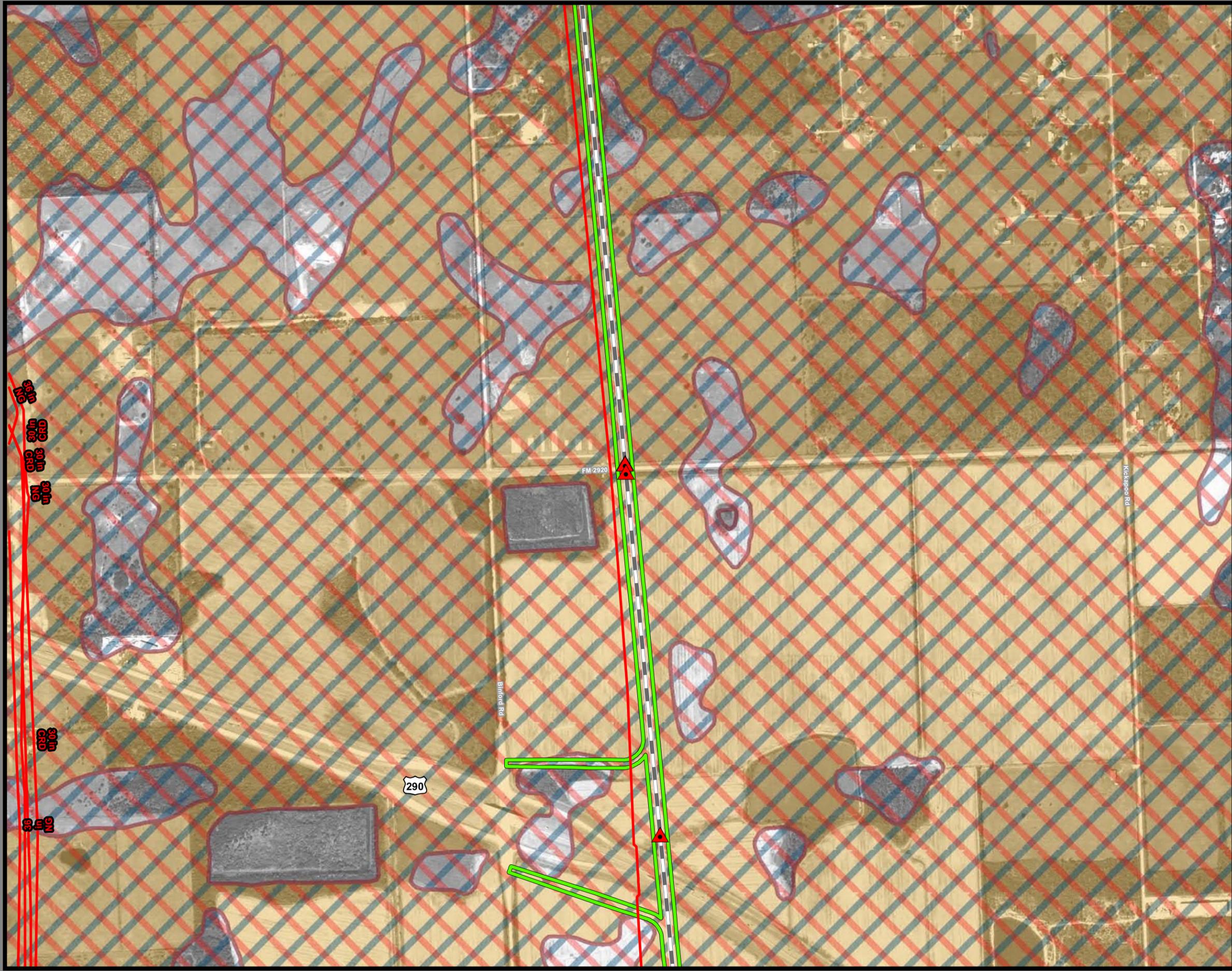
**Legend**

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

**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





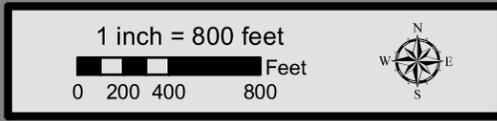
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 236 of 257**

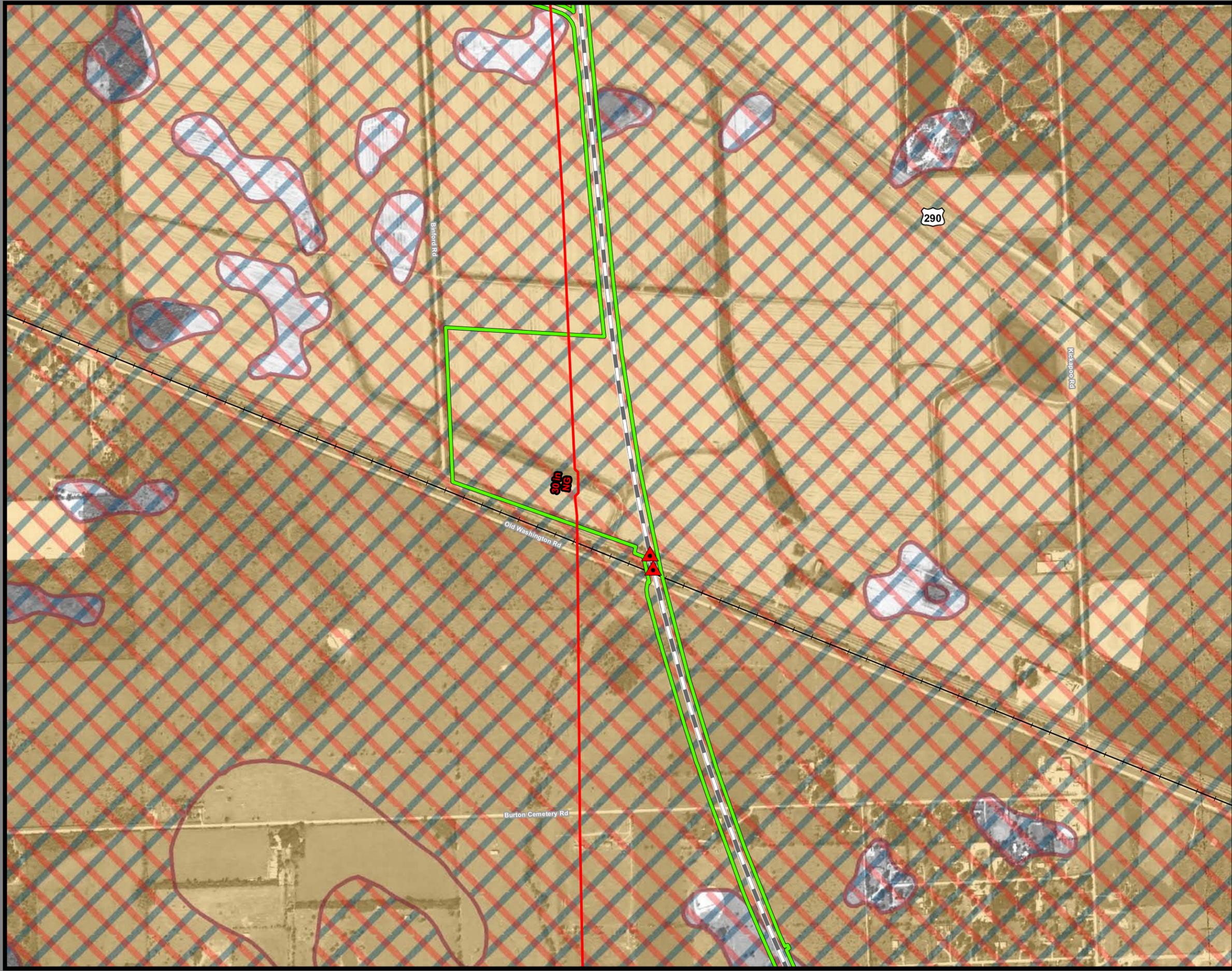
**Legend**

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





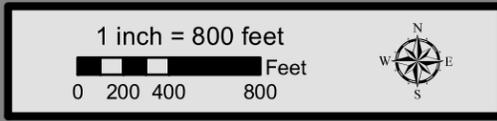
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 237 of 257**

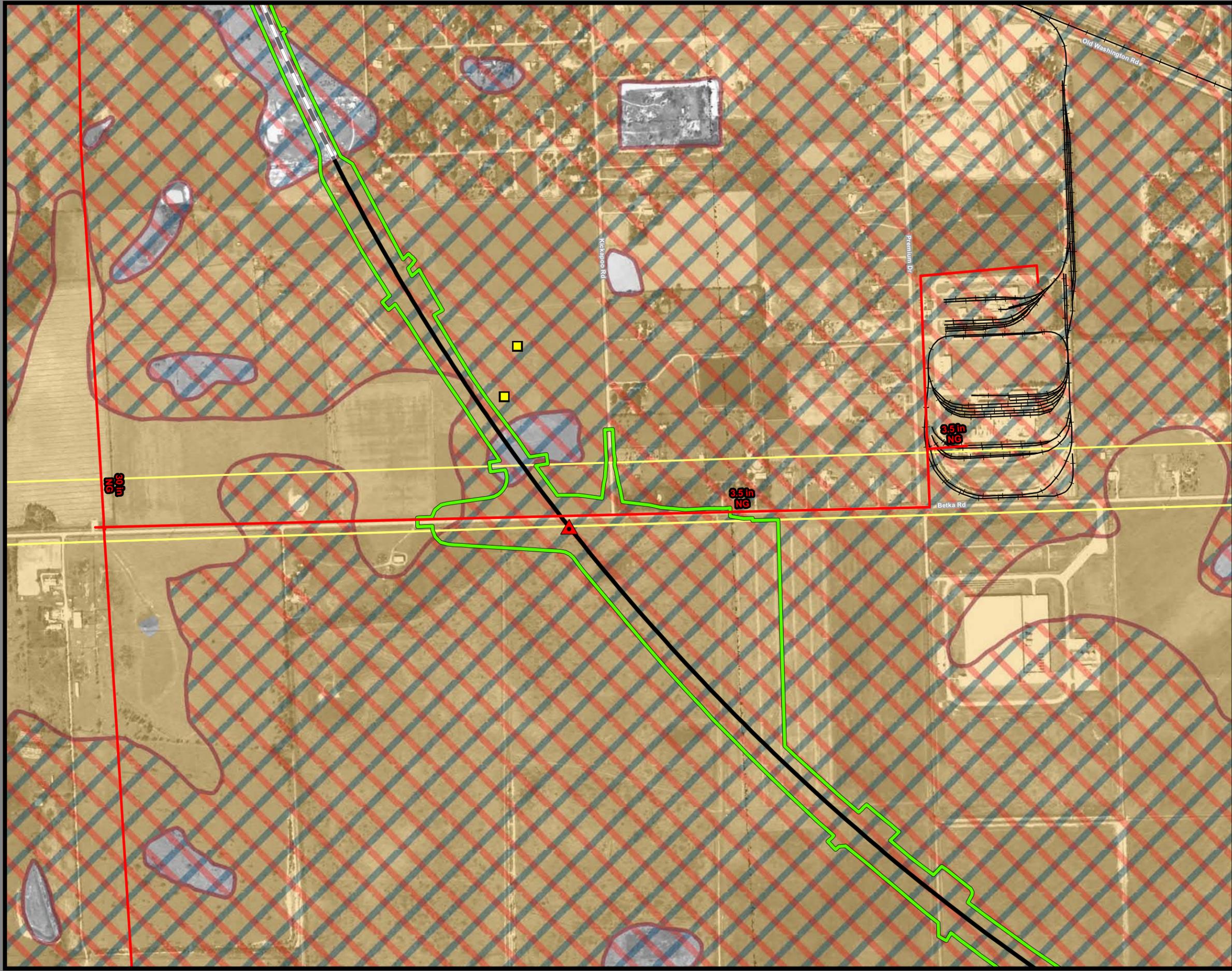
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 238 of 257**

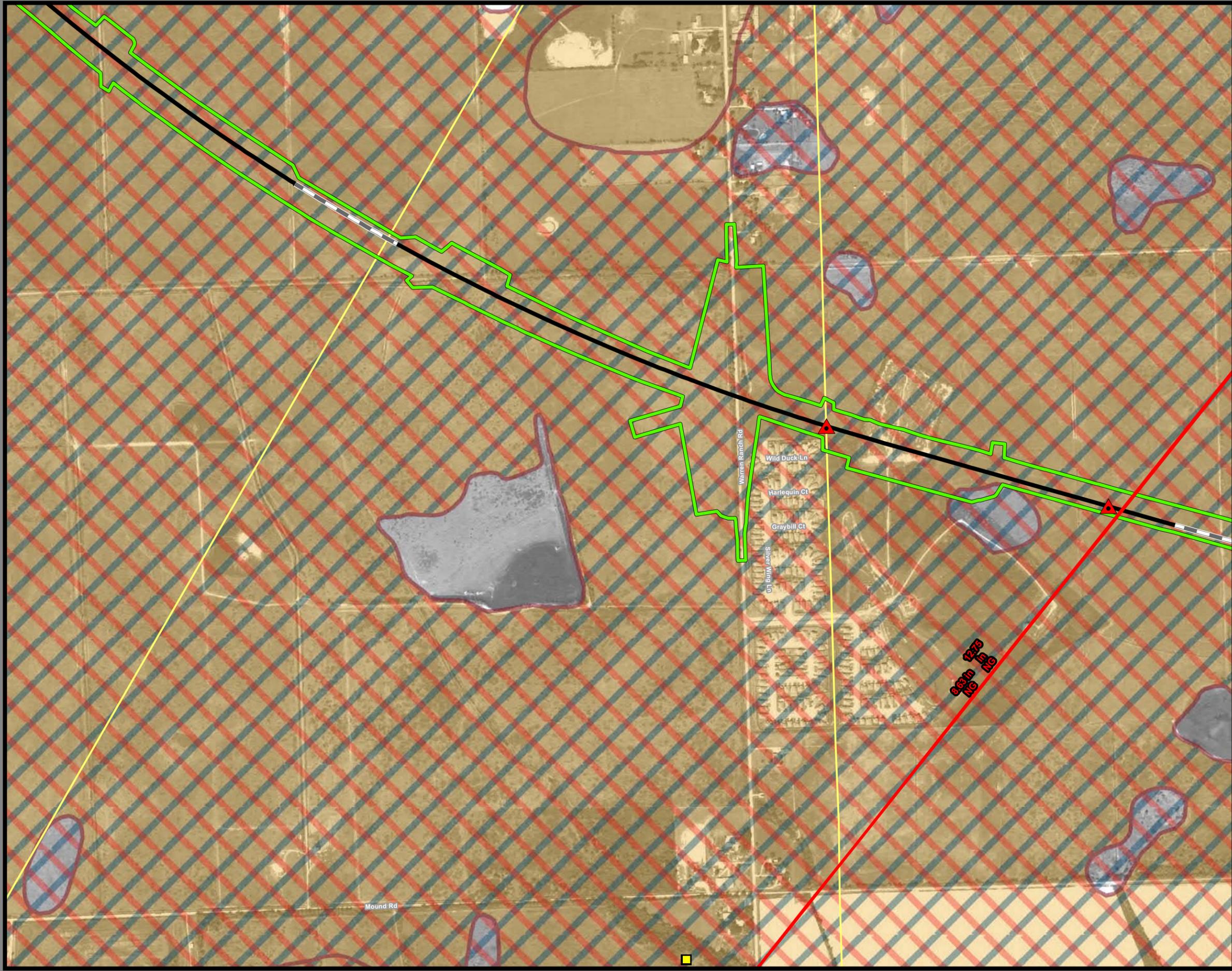
**Legend**

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





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

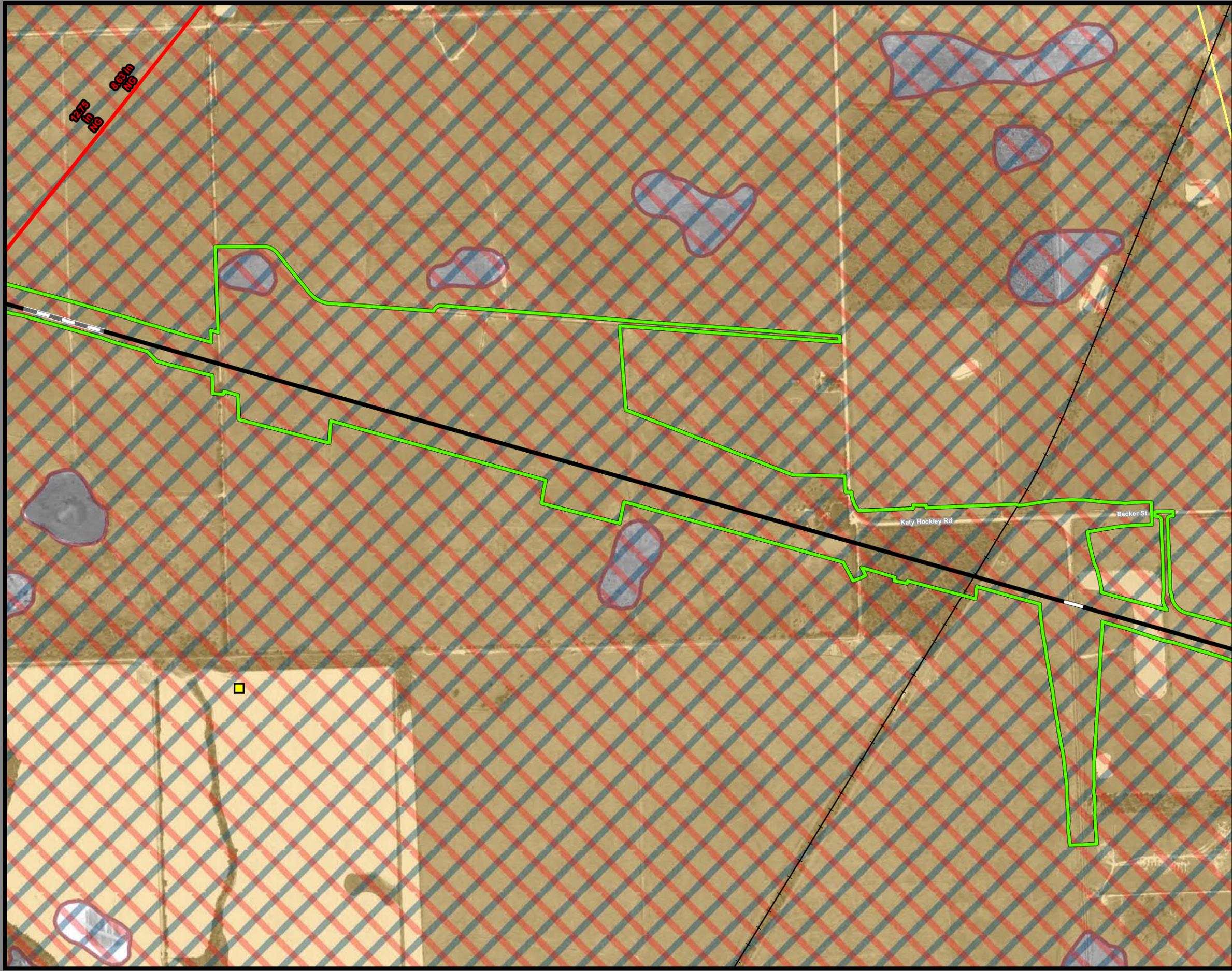
**Legend**

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

**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 5  
Sheet 240 of 257**

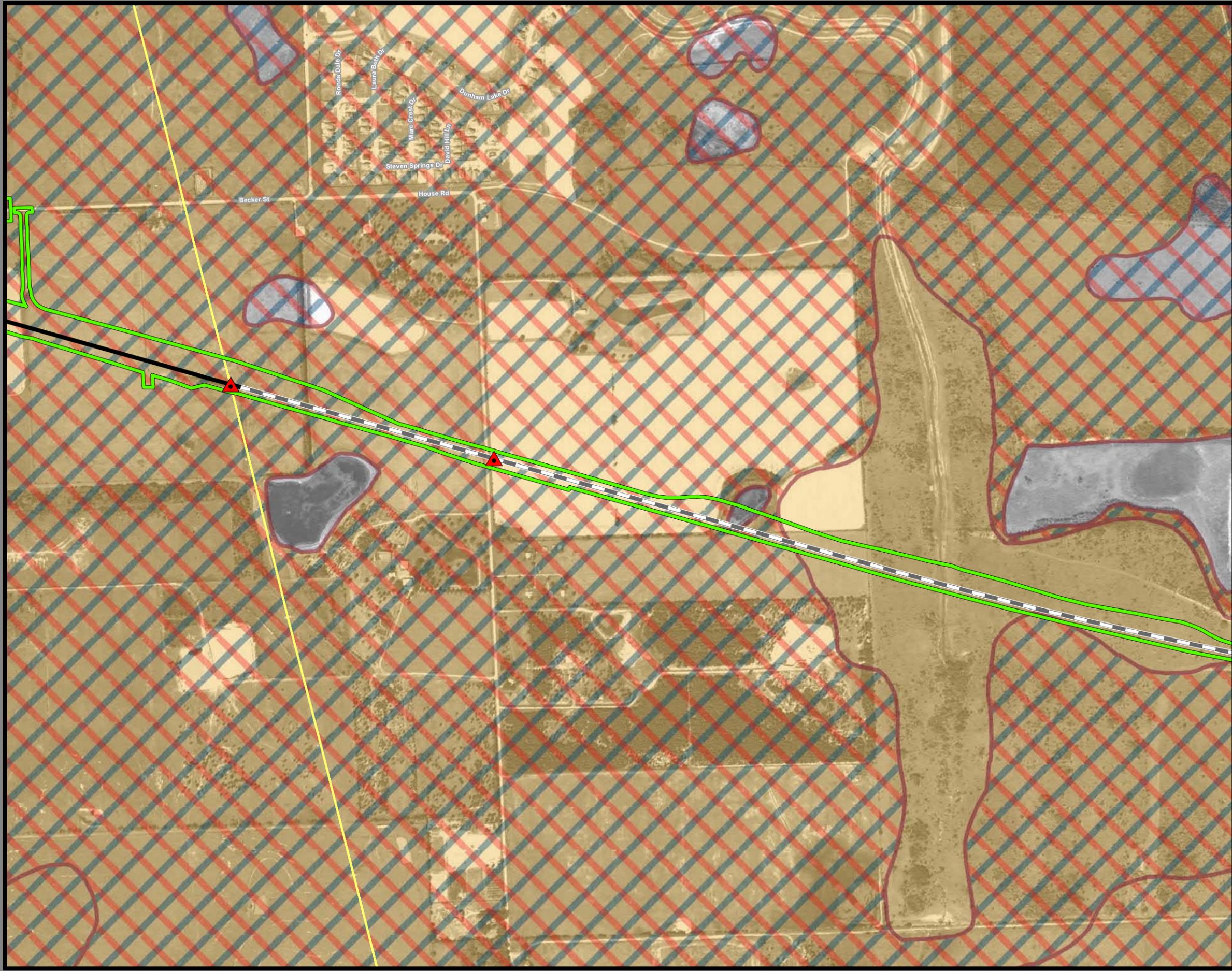
**Legend**

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





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

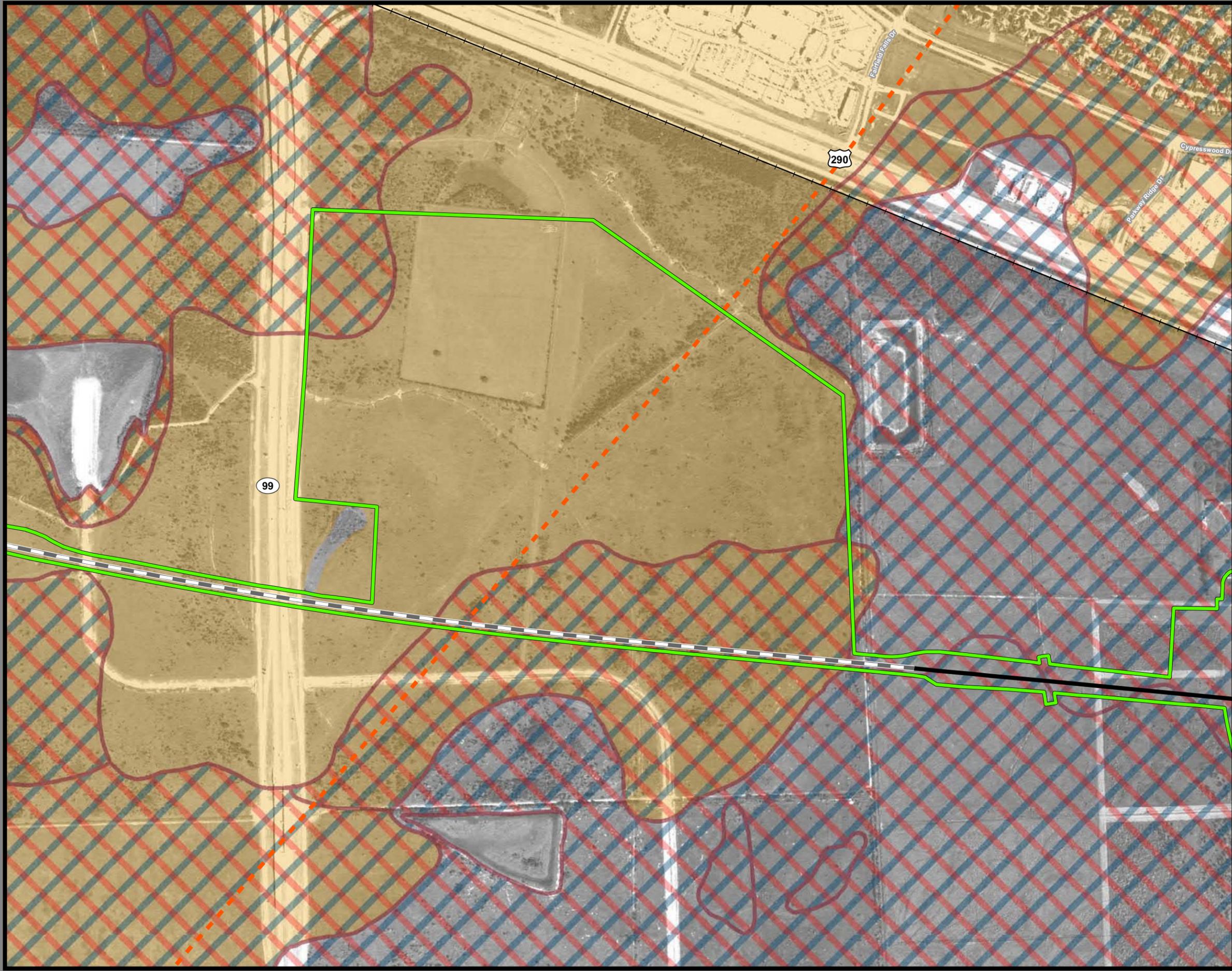
**Legend**

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





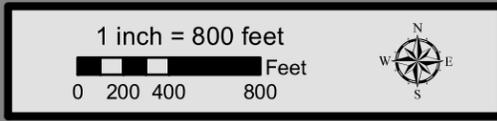
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 242 of 257**

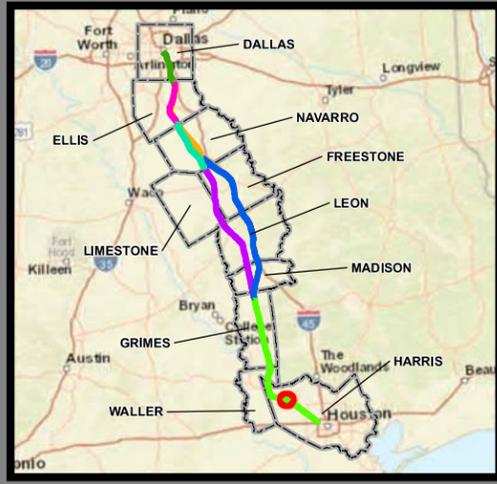
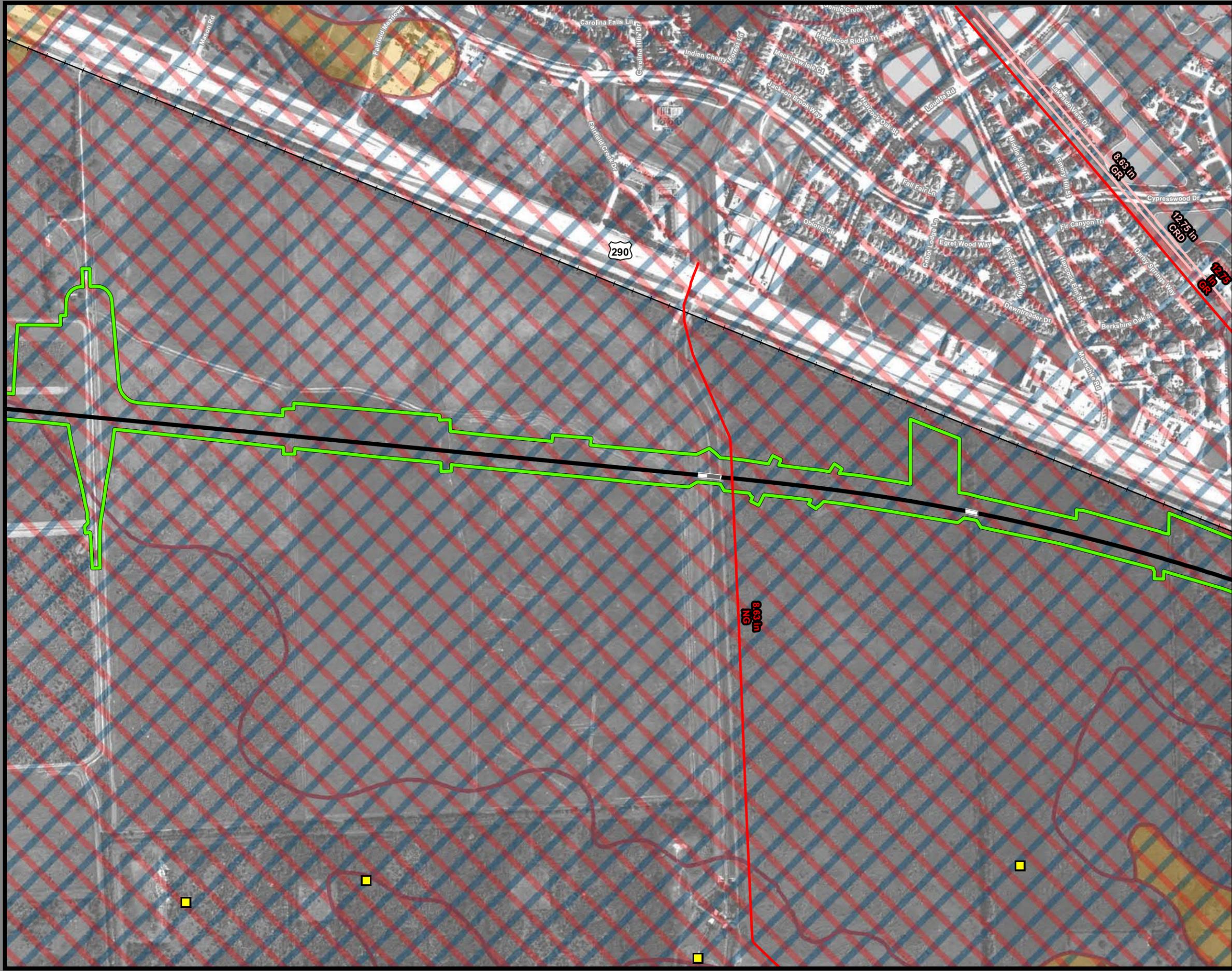
**Legend**

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

**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





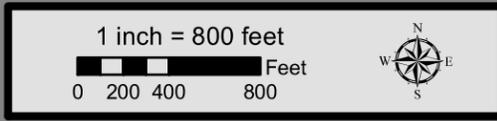
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 243 of 257**

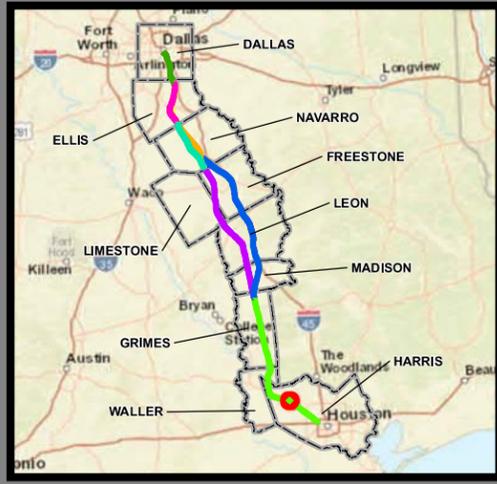
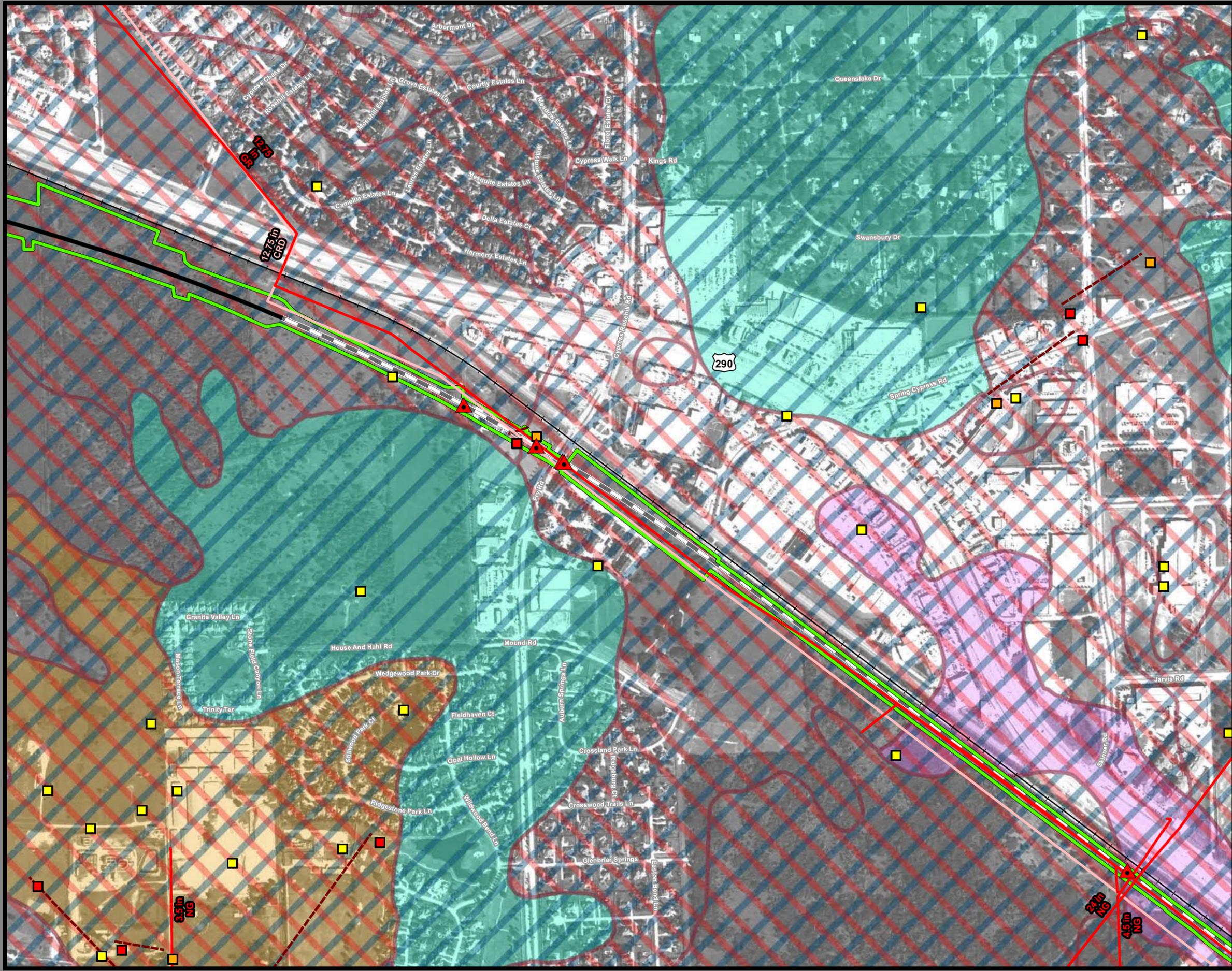
**Legend**

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

**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 5  
Sheet 244 of 257**

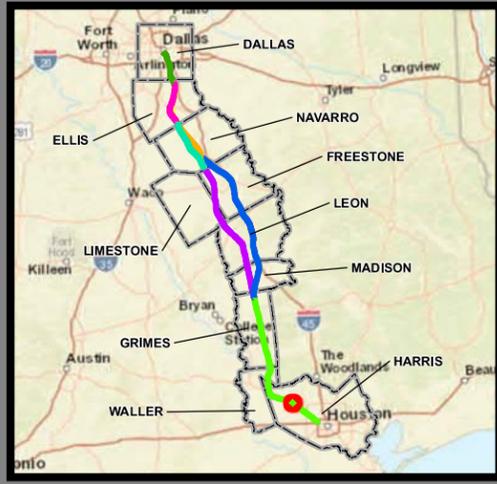
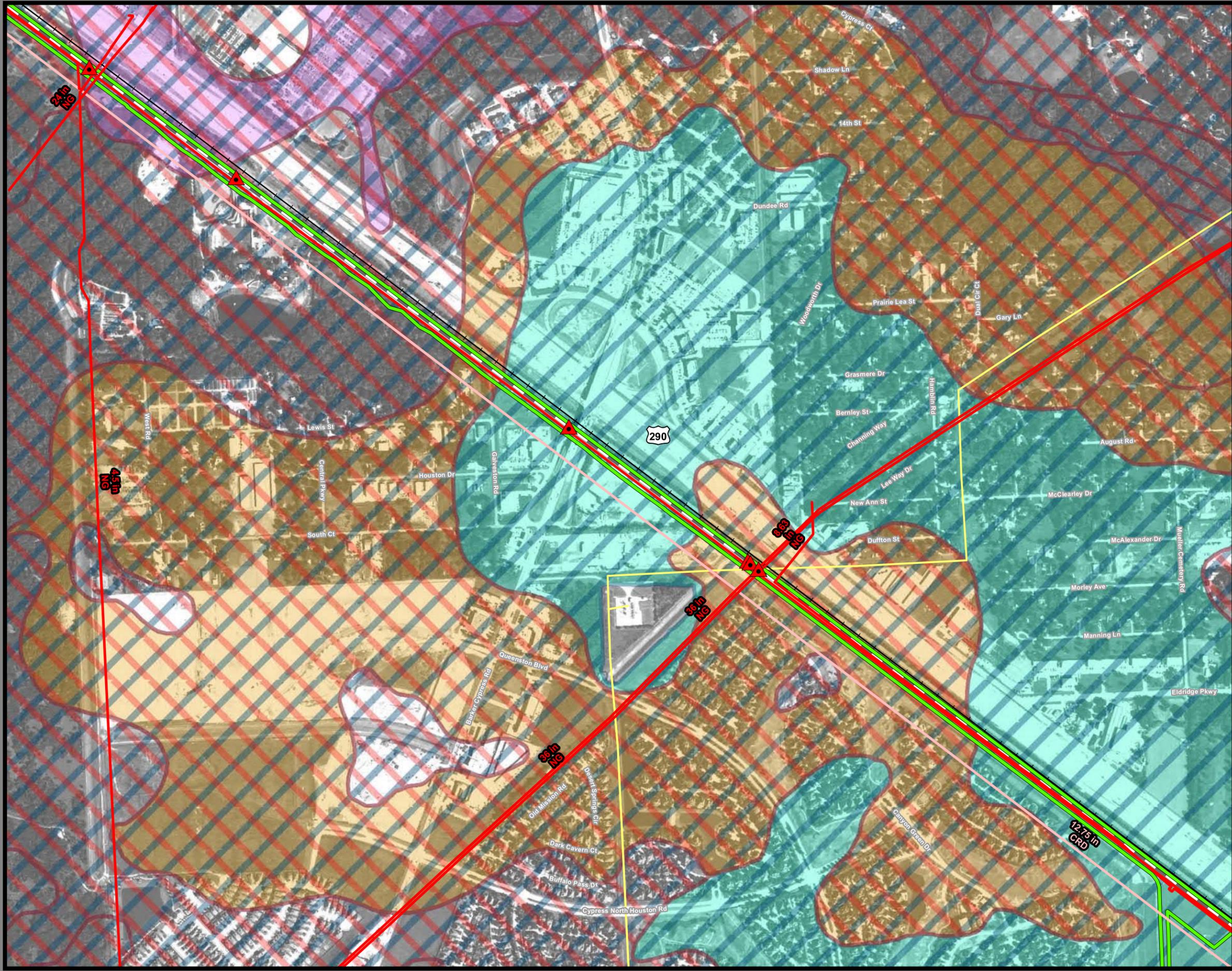
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 245 of 257**

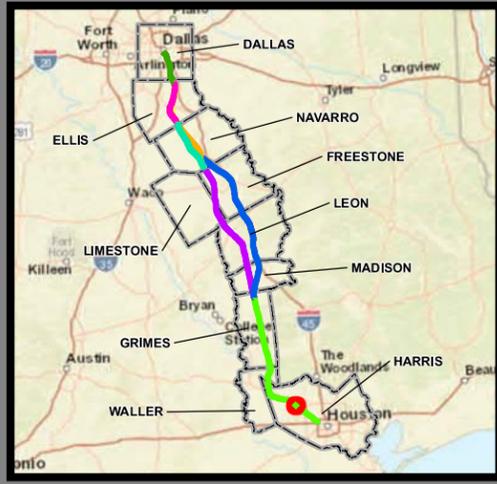
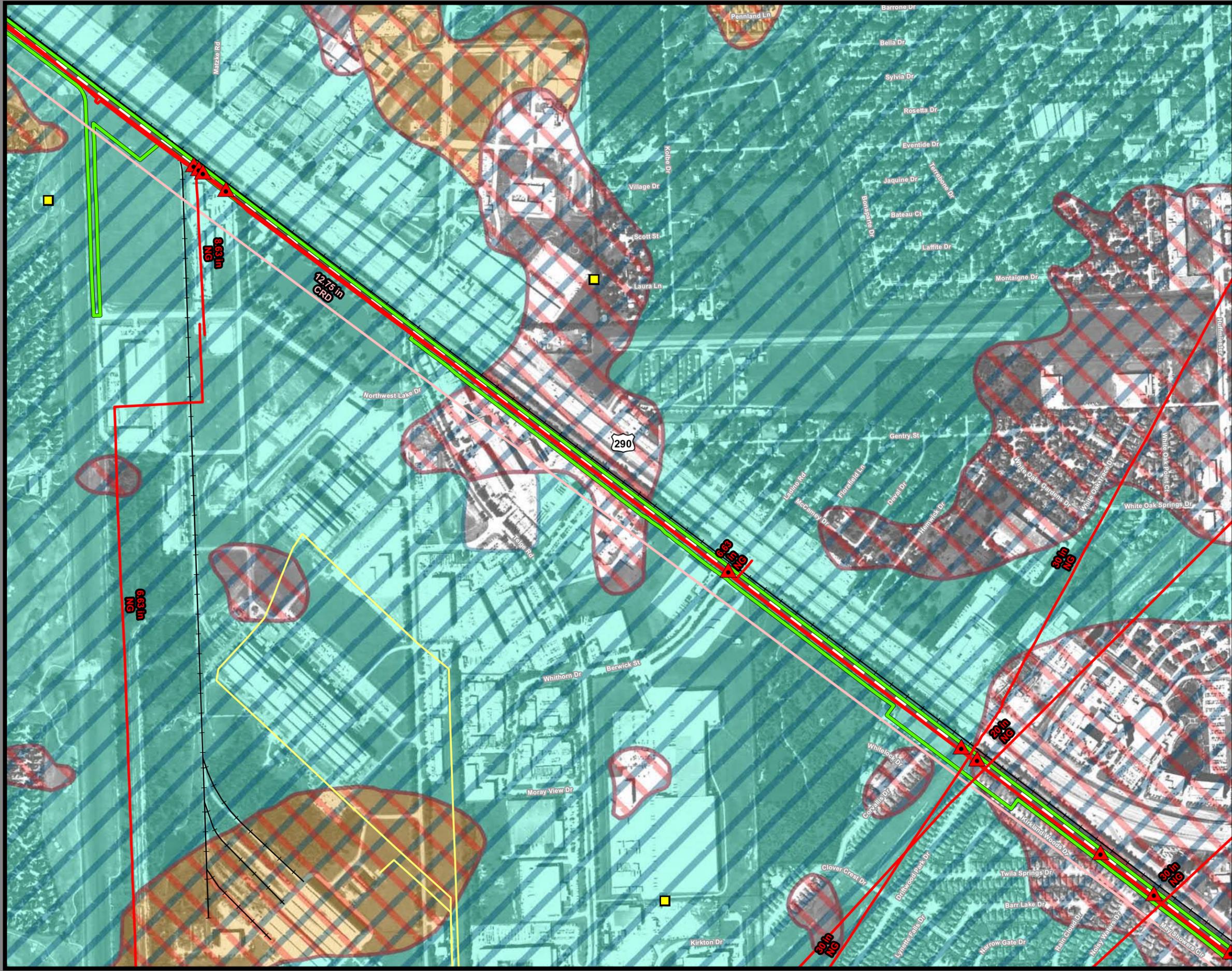
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5  
Sheet 246 of 257**

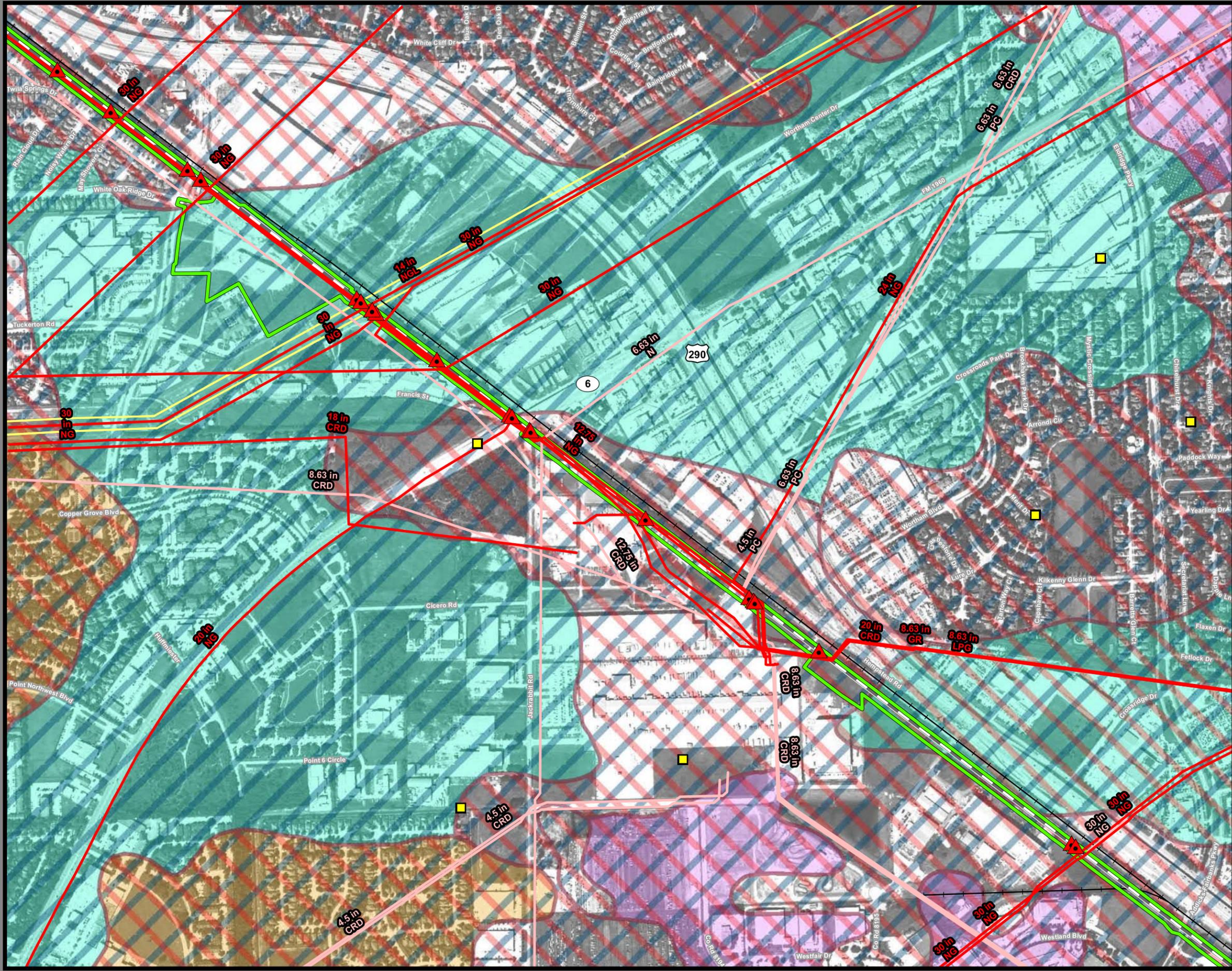
**Legend**

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





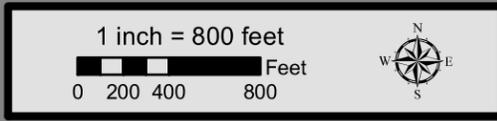
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 247 of 257**

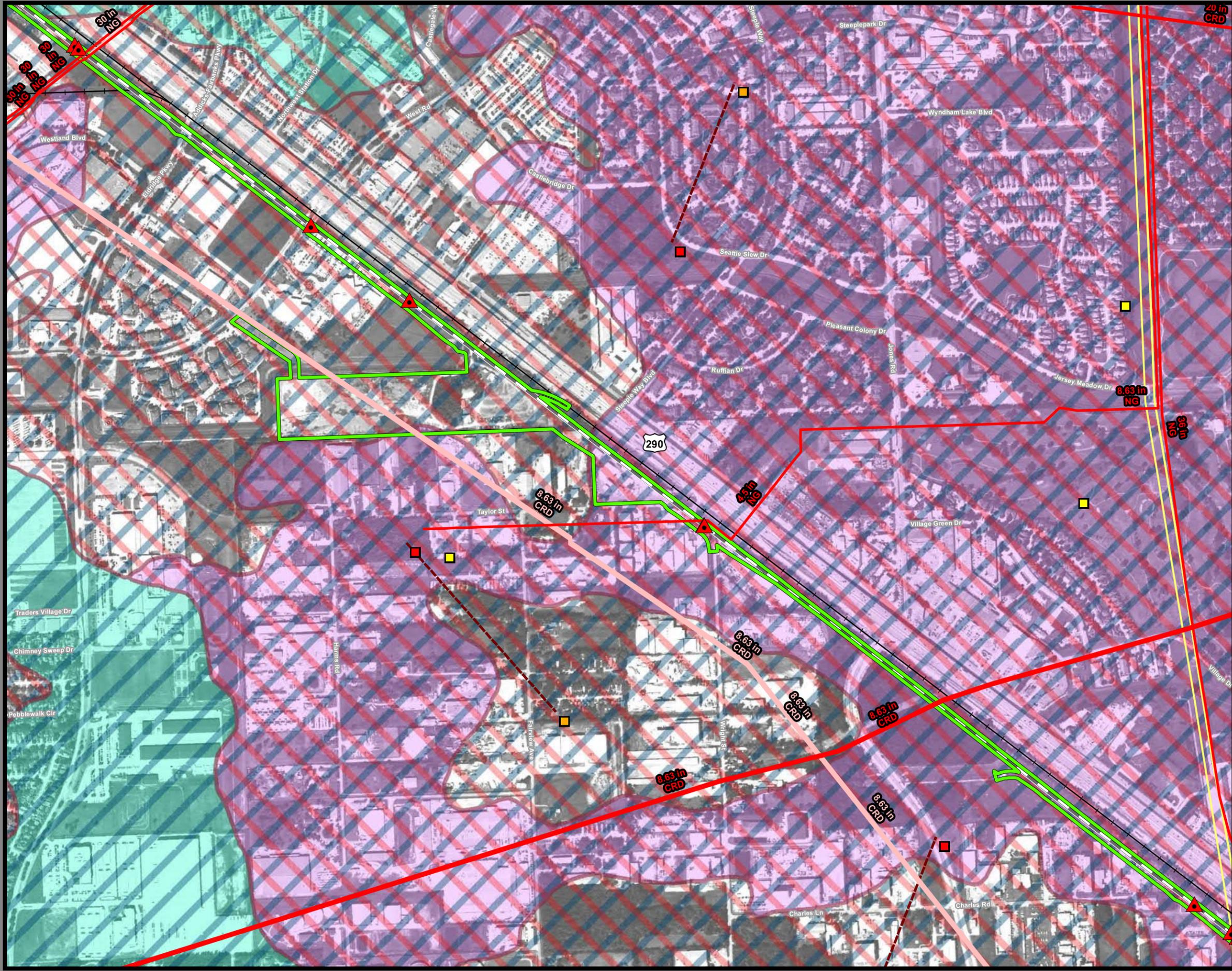
**Legend**

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

**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 5  
Sheet 248 of 257**

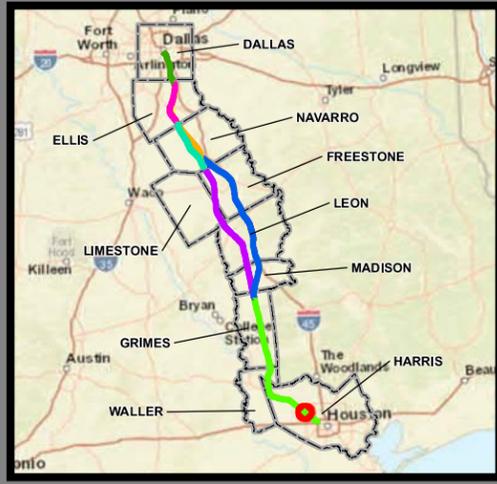
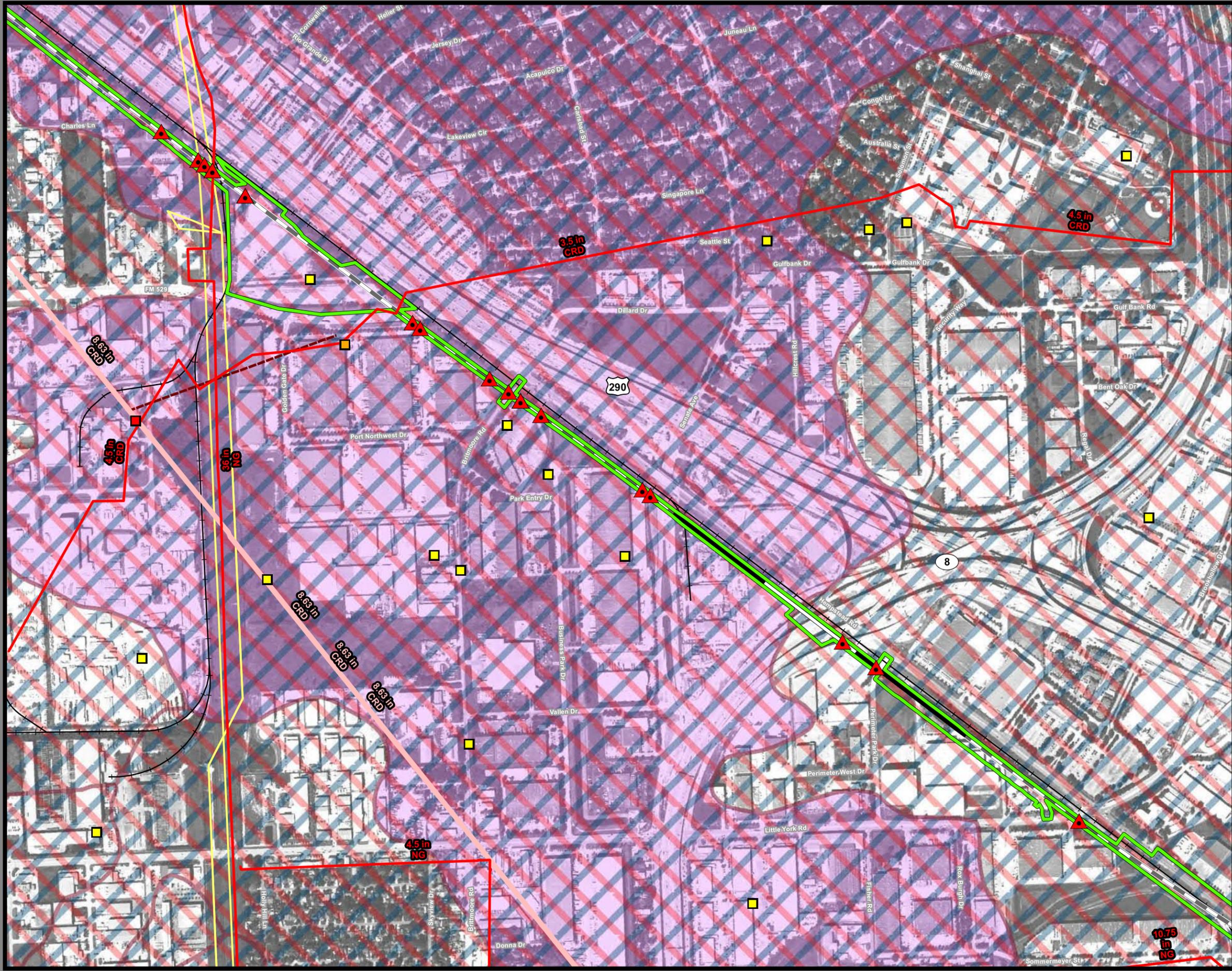
**Legend**

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





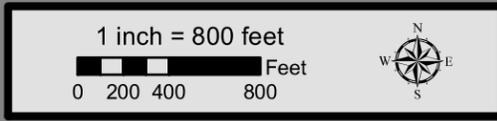
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 249 of 257**

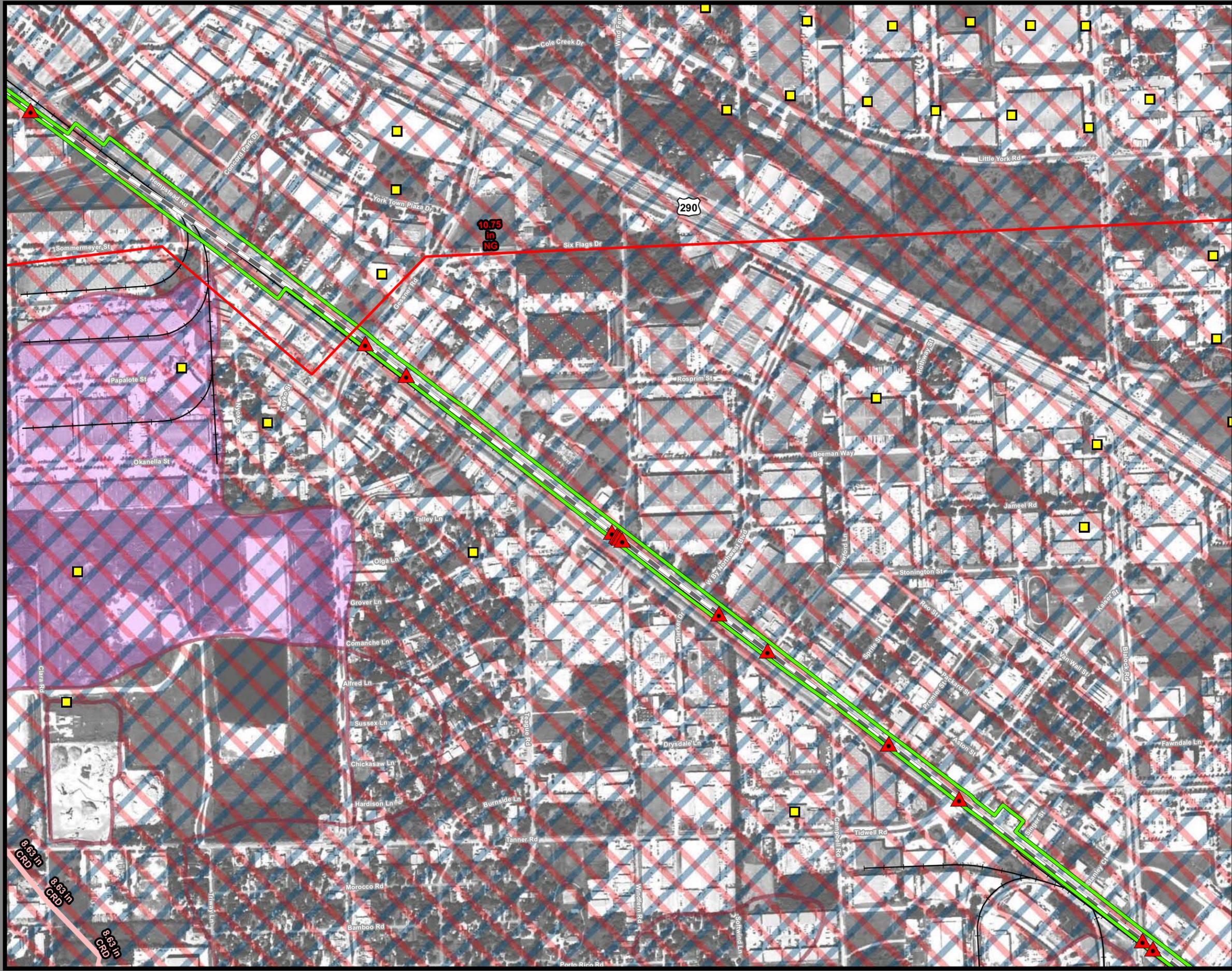
**Legend**

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





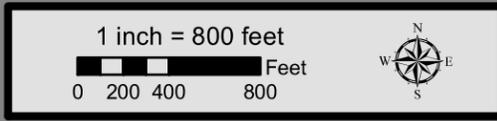
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 250 of 257**

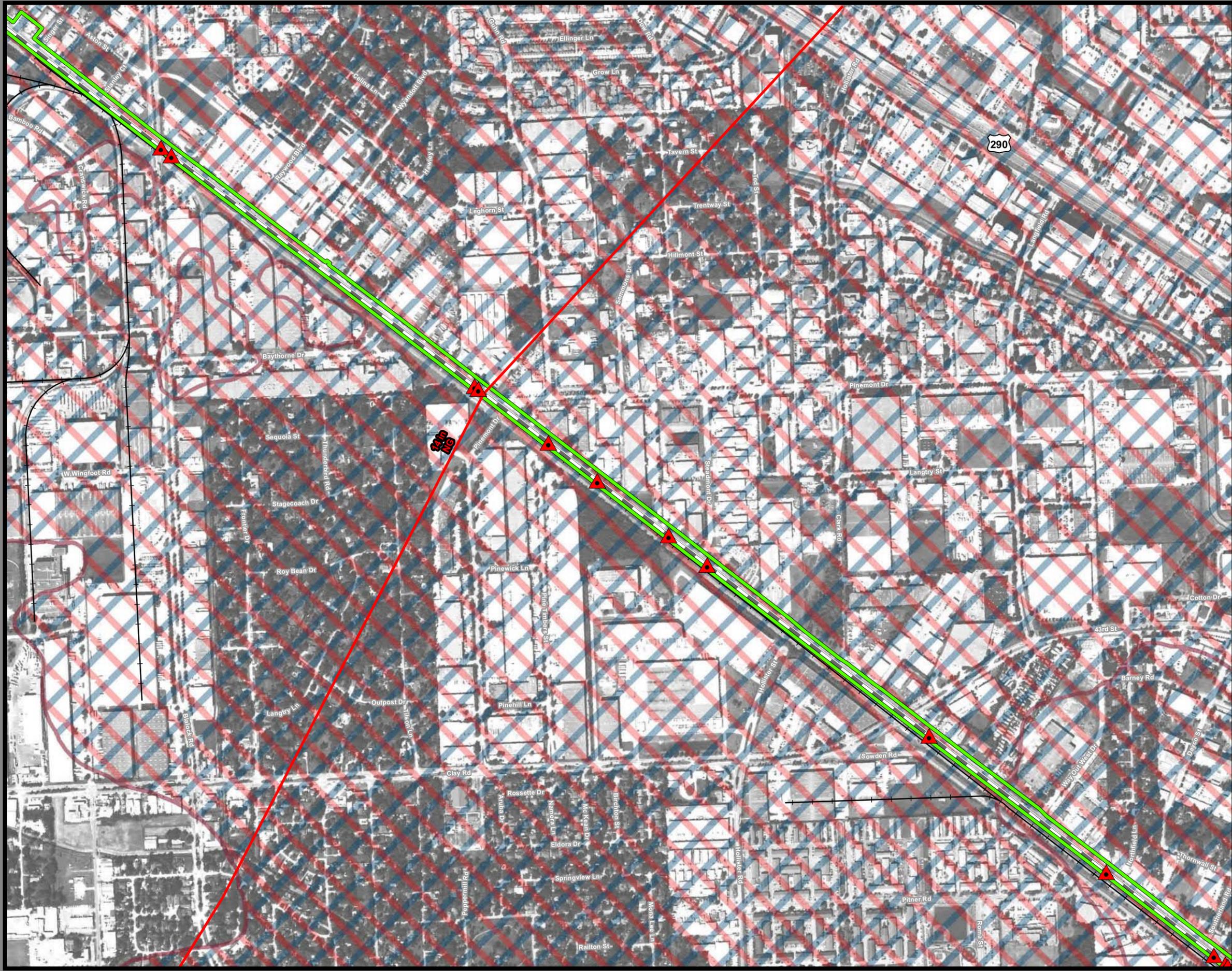
**Legend**

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





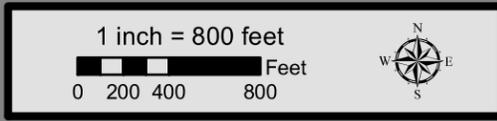
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 251 of 257**

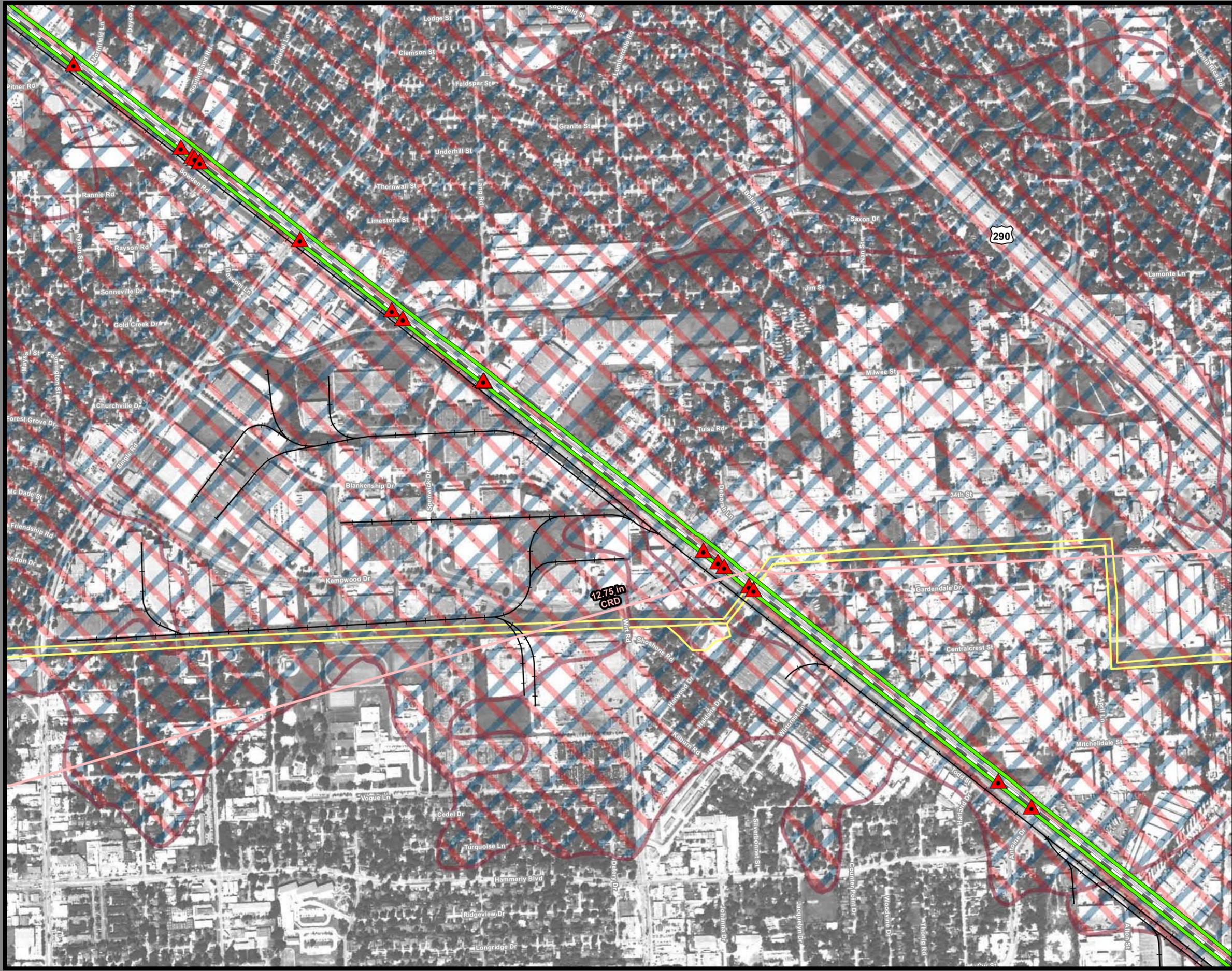
**Legend**

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





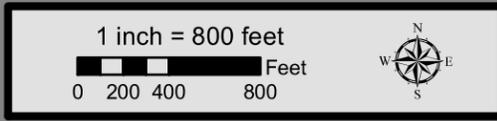
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 252 of 257**

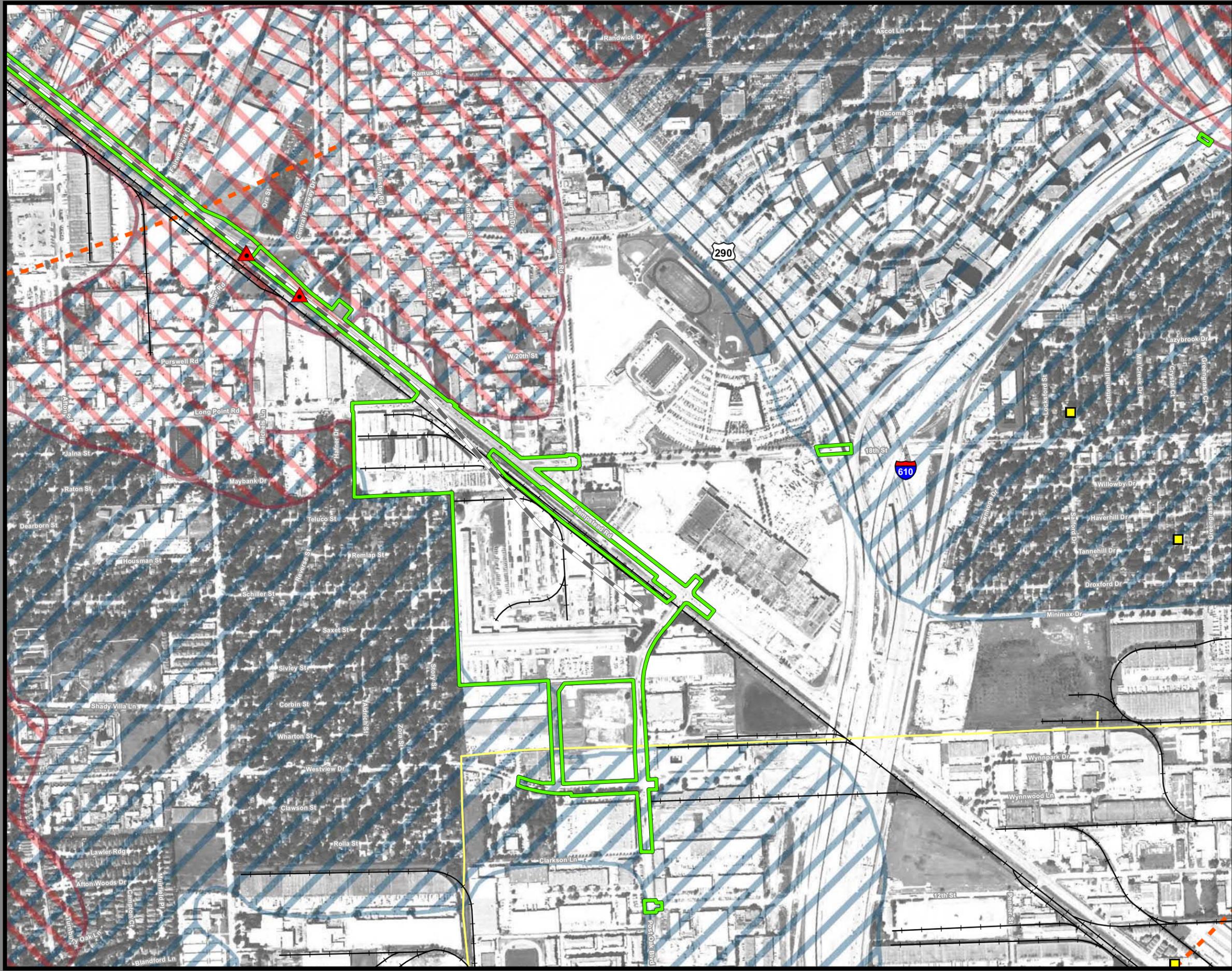
**Legend**

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





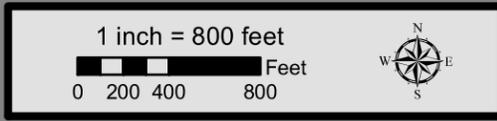
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5, Industrial Site Terminal Option  
Sheet 253 of 257**

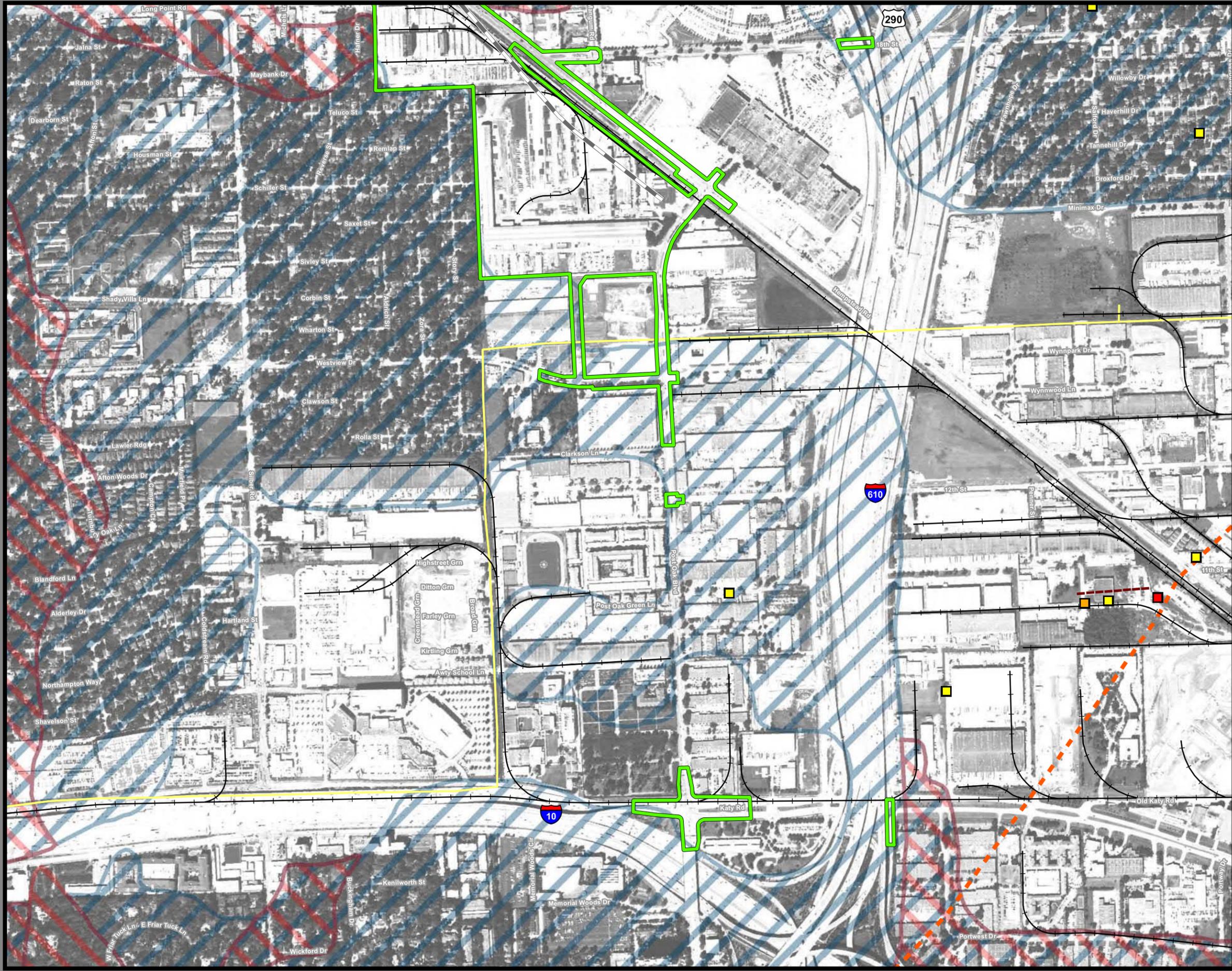
**Legend**

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

**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 5, Industrial Site Terminal Option  
Sheet 254 of 257**

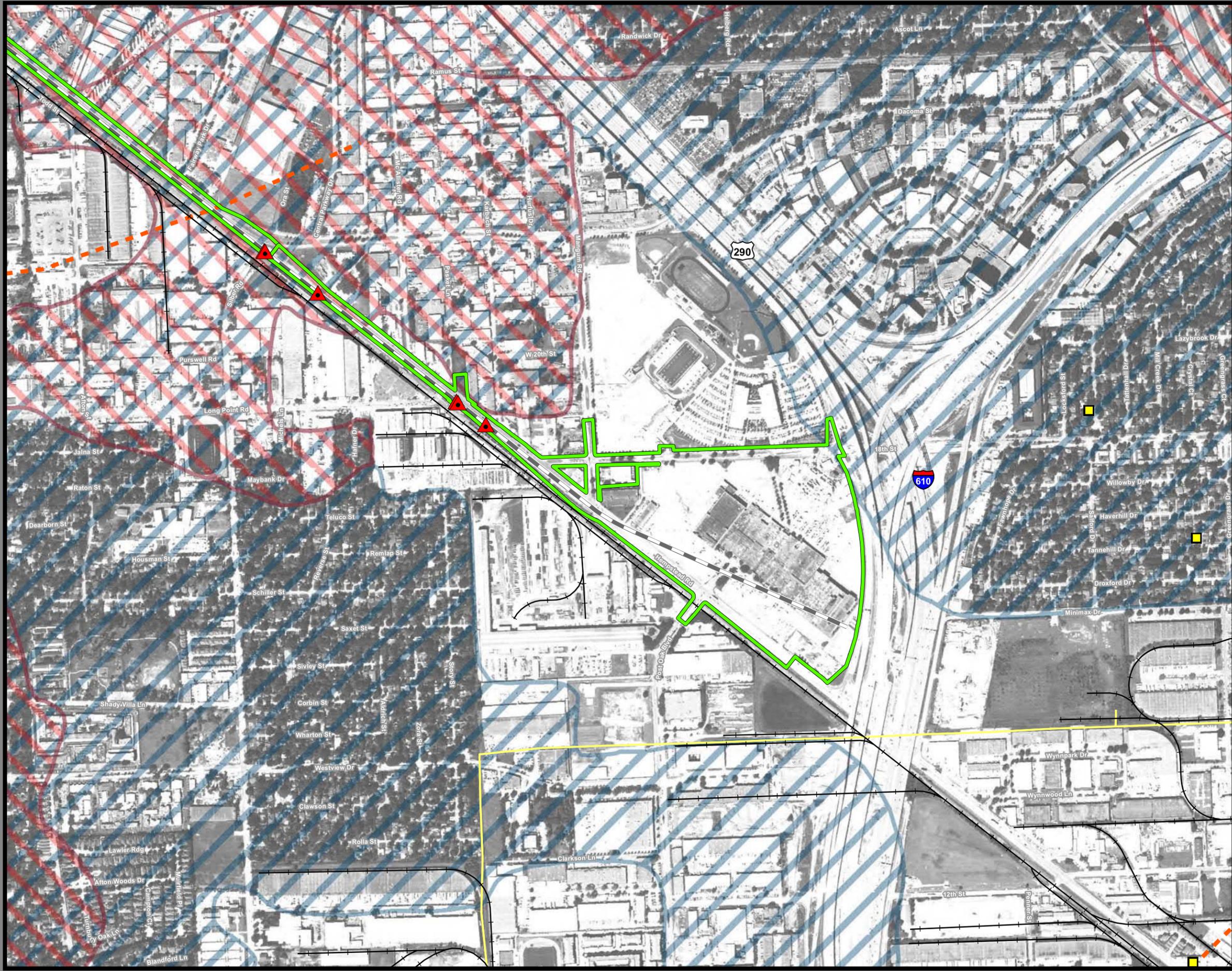
**Legend**

<b>Limits of Disturbance</b>	<b>Utilities</b>
Segment 1	Mine
Segment 2A	Utility Crossing
Segment 2B	Electric Transmission Line
Segment 3A	
Segment 3B	<b>Oil/Gas Wells</b>
Segment 3C	Vertical
Segment 4	Directional: Surface
Segment 5	Directional: Bottom
	Directional Well Lines
<b>Track Configuration</b>	<b>Oil/Gas Pipelines</b>
Viaduct	Active
Embankment	Abandoned
Cut	
County Boundary	<b>Soils</b>
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 5, Northwest Mall Terminal Option  
Sheet 255 of 257**

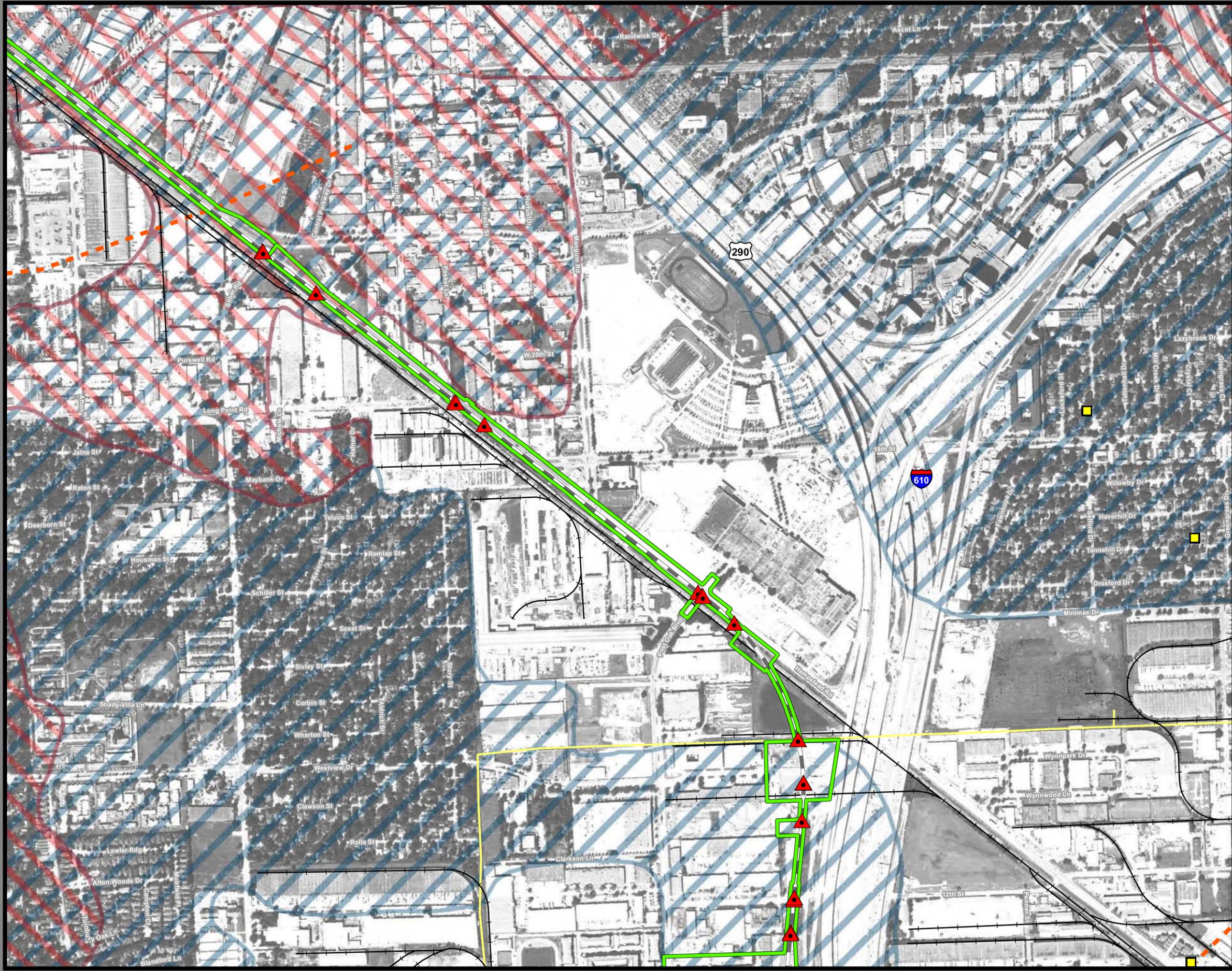
**Legend**

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

**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 5, Northwest Transit Center Terminal Option  
Sheet 256 of 257**

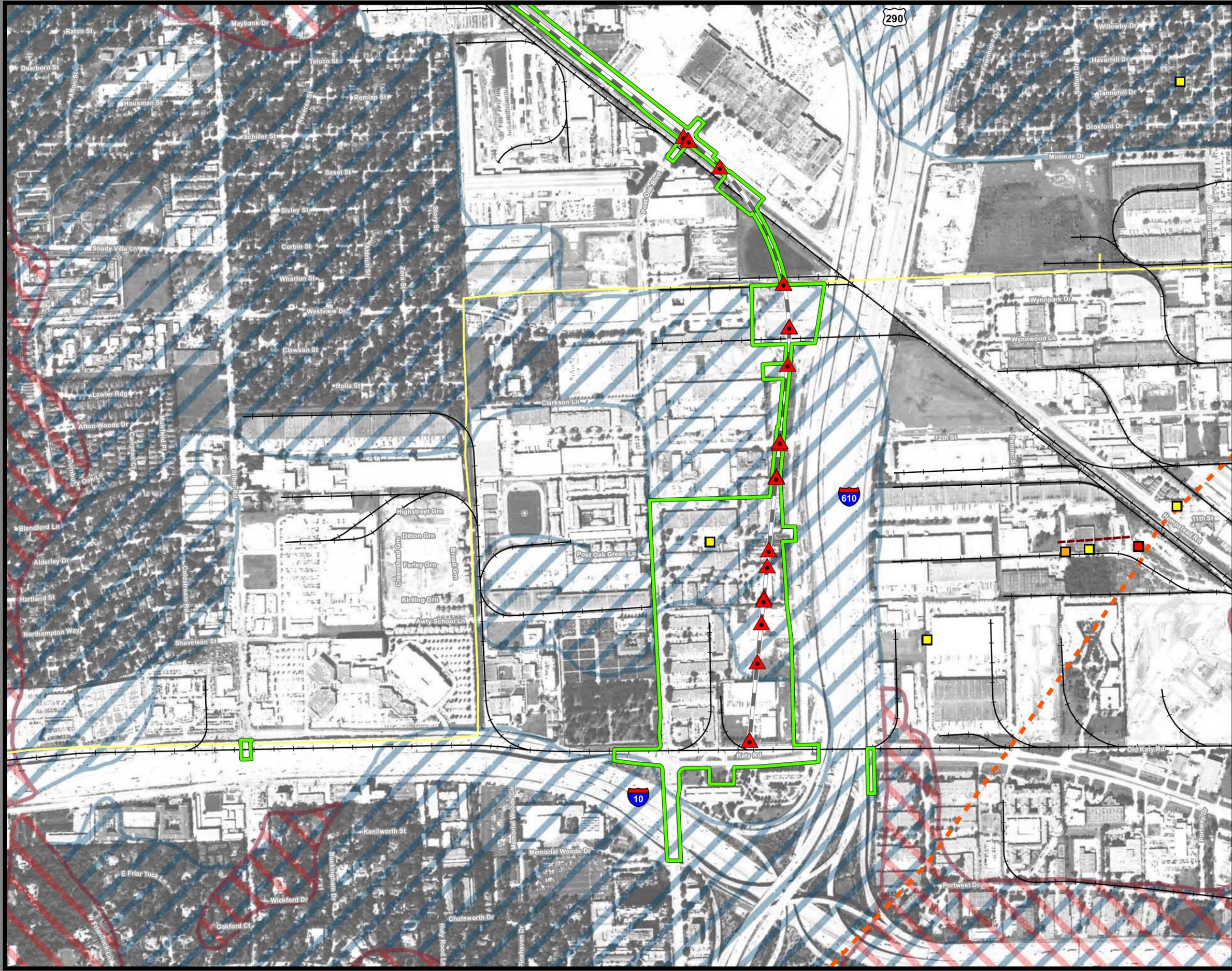
**Legend**

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

**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 5, Northwest Transit Center Terminal Option  
Sheet 257 of 257

**Legend**

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

**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

