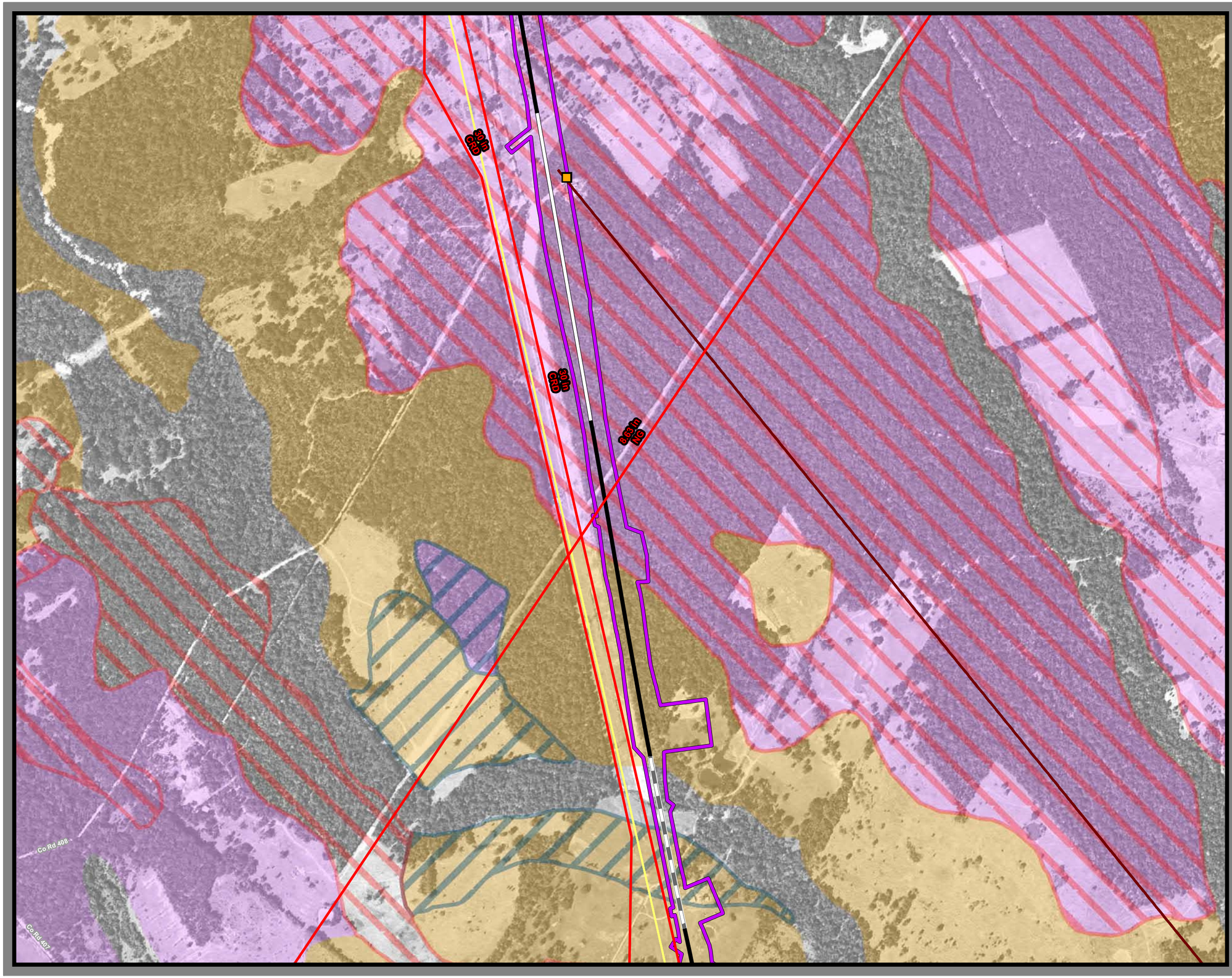
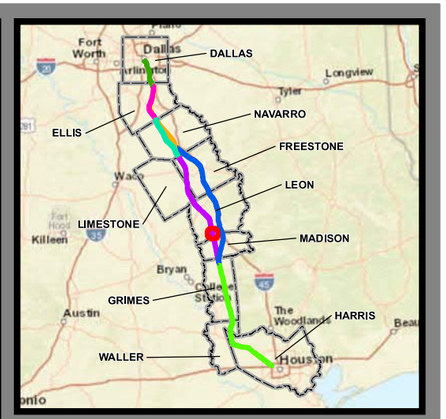
# Dallas to Houston High-Speed Rail
# Draft Environmental Impact Statement

## 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

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

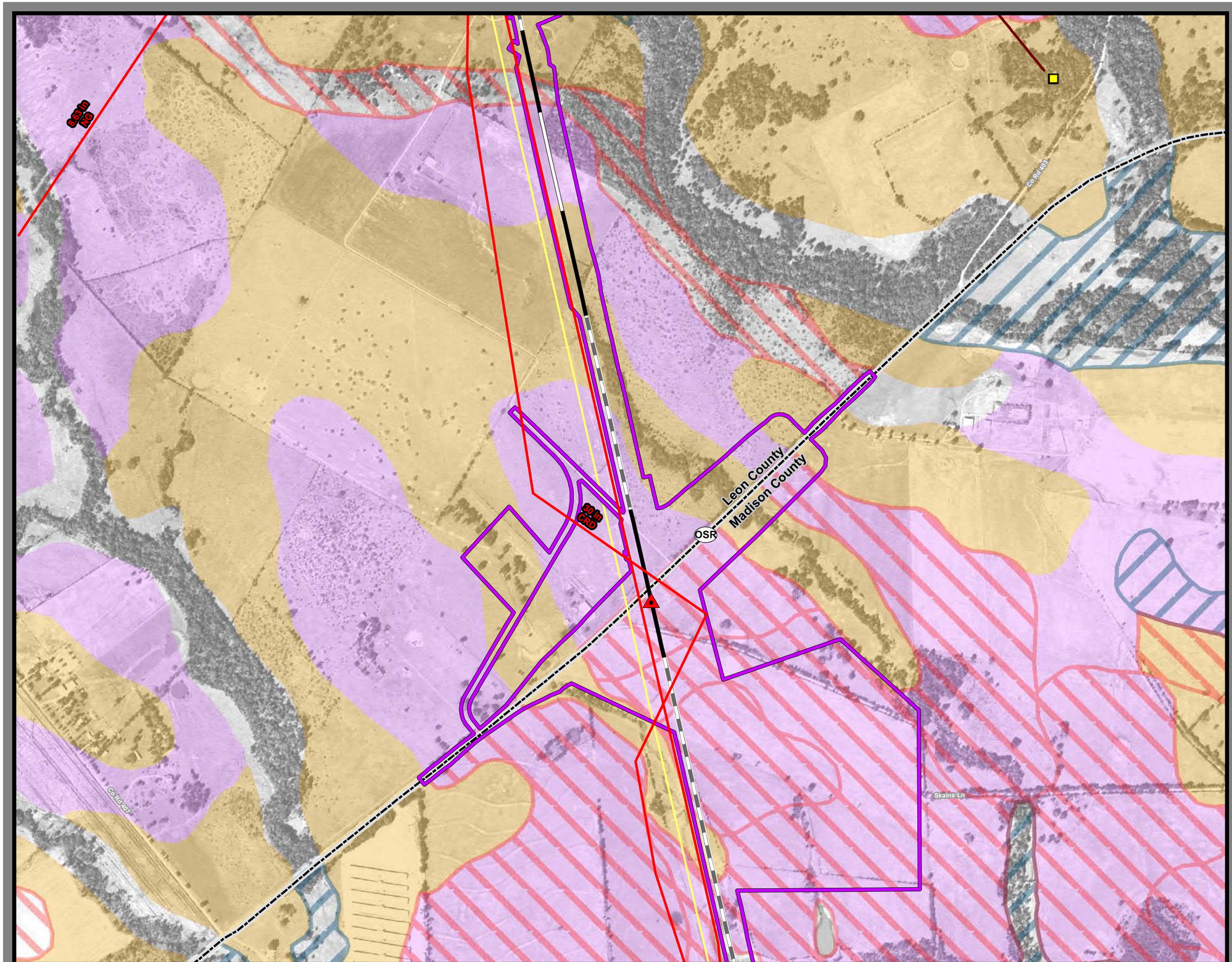
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

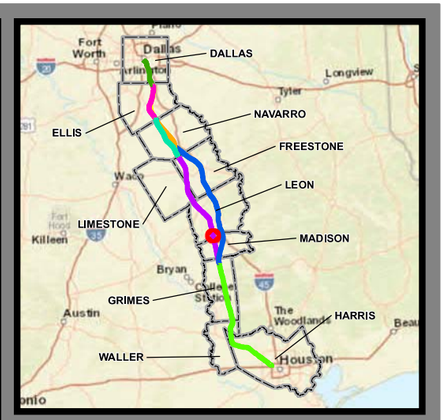
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

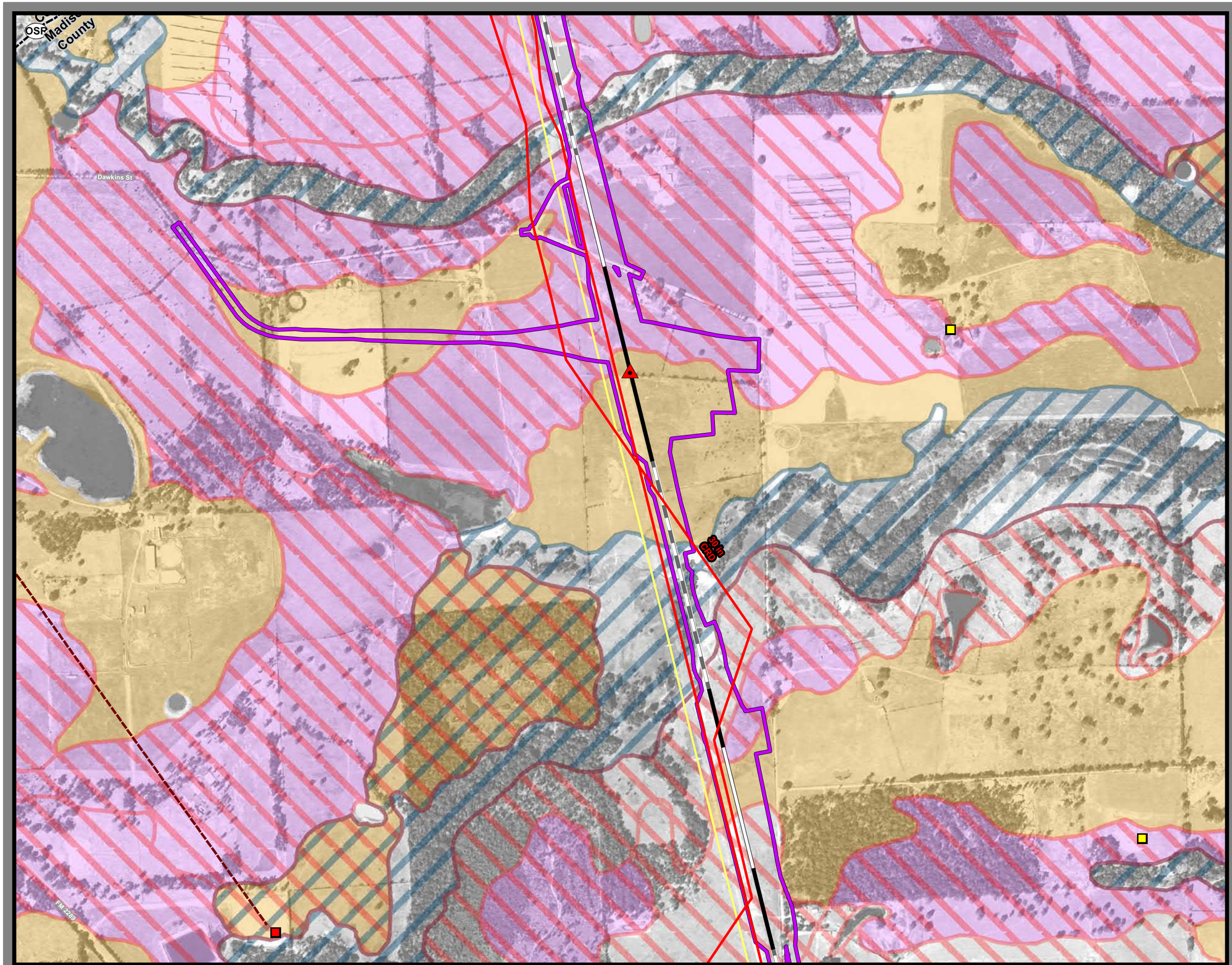
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

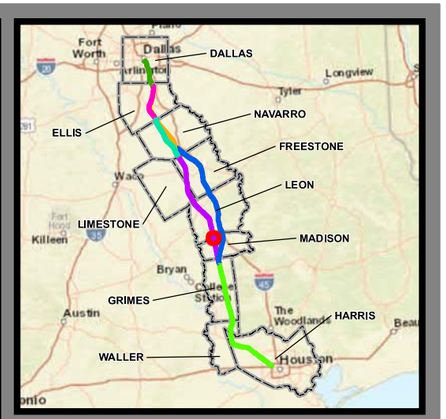
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

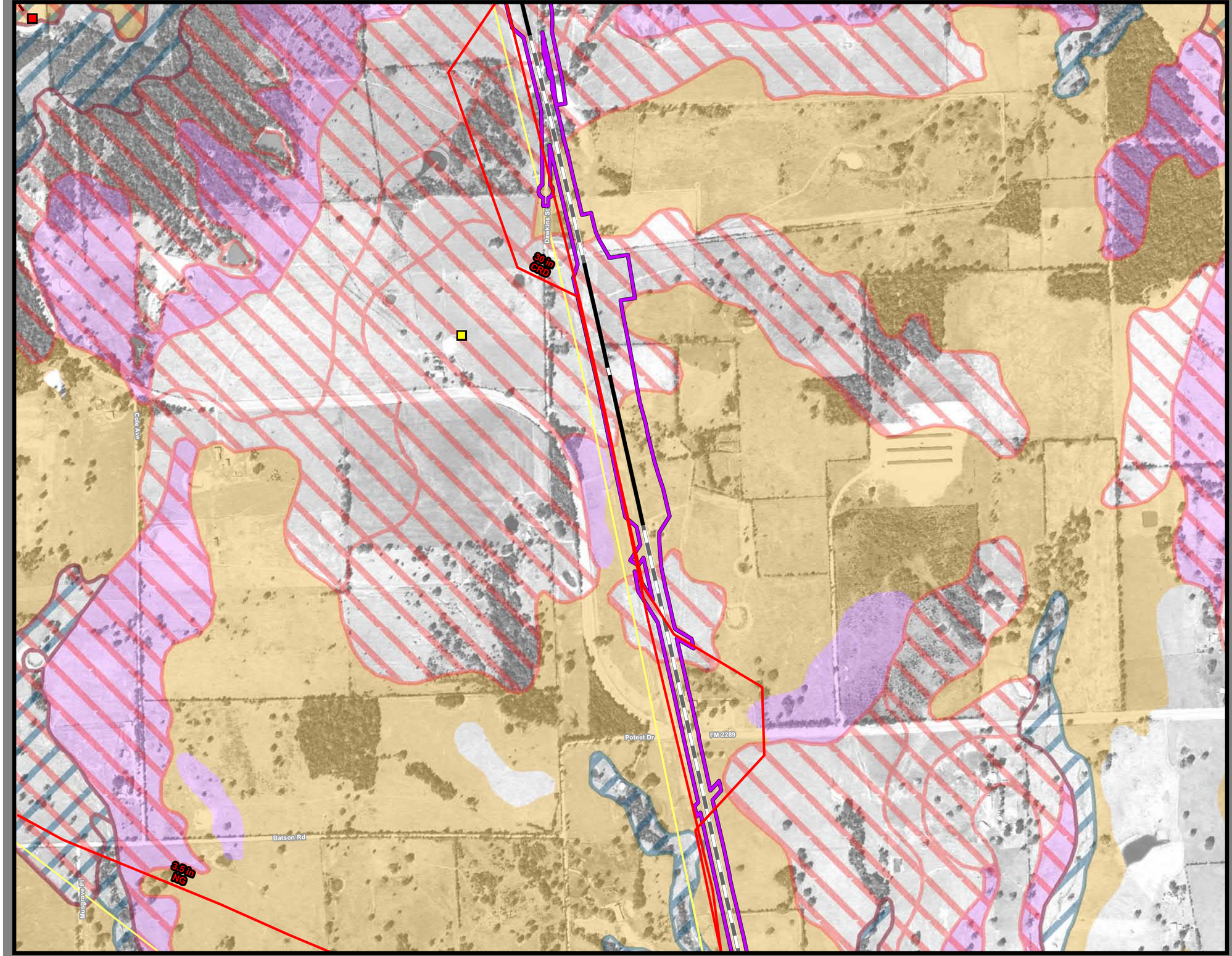
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

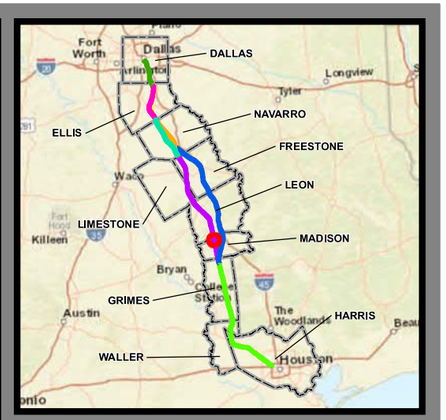
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 4
**Sheet 191 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

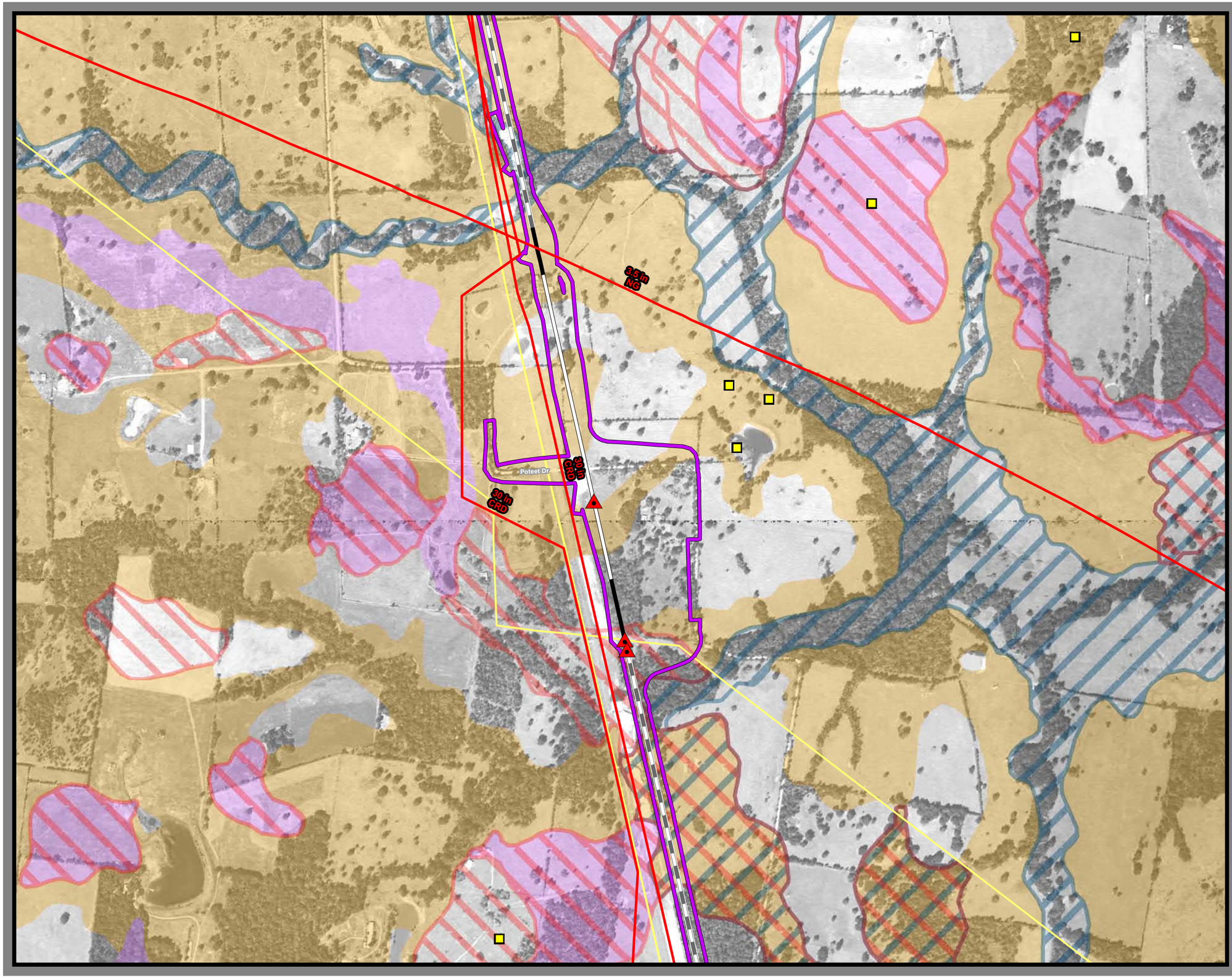
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

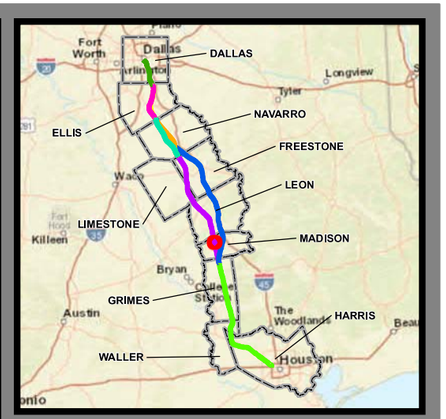
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

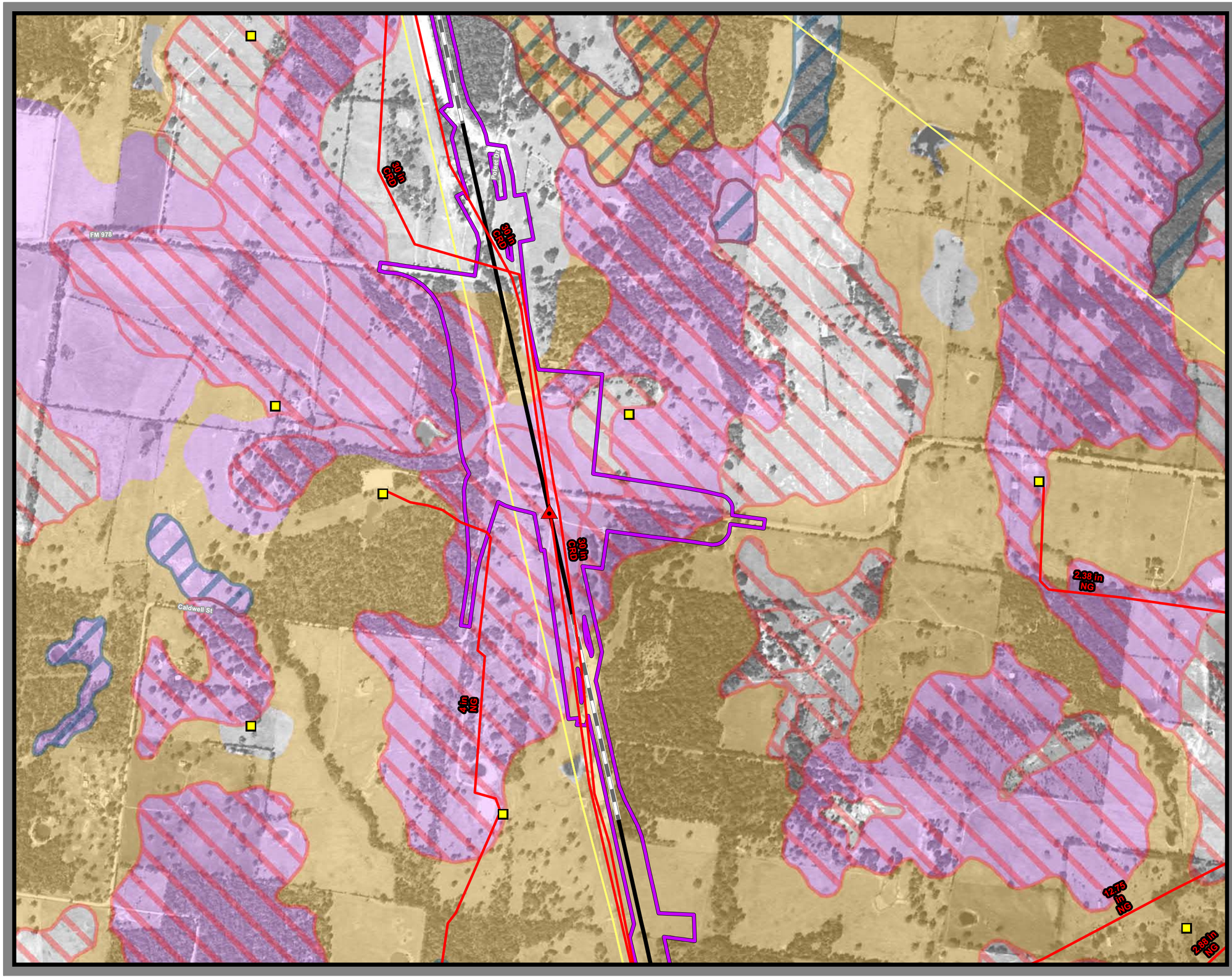
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

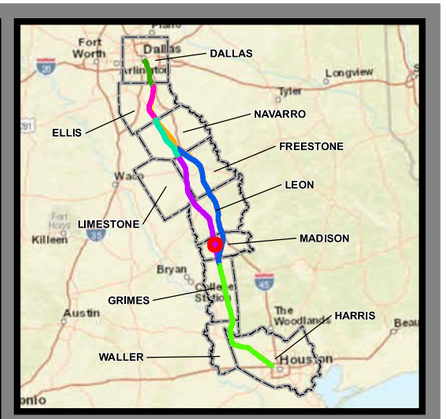
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
Feet
0 200 400 800

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

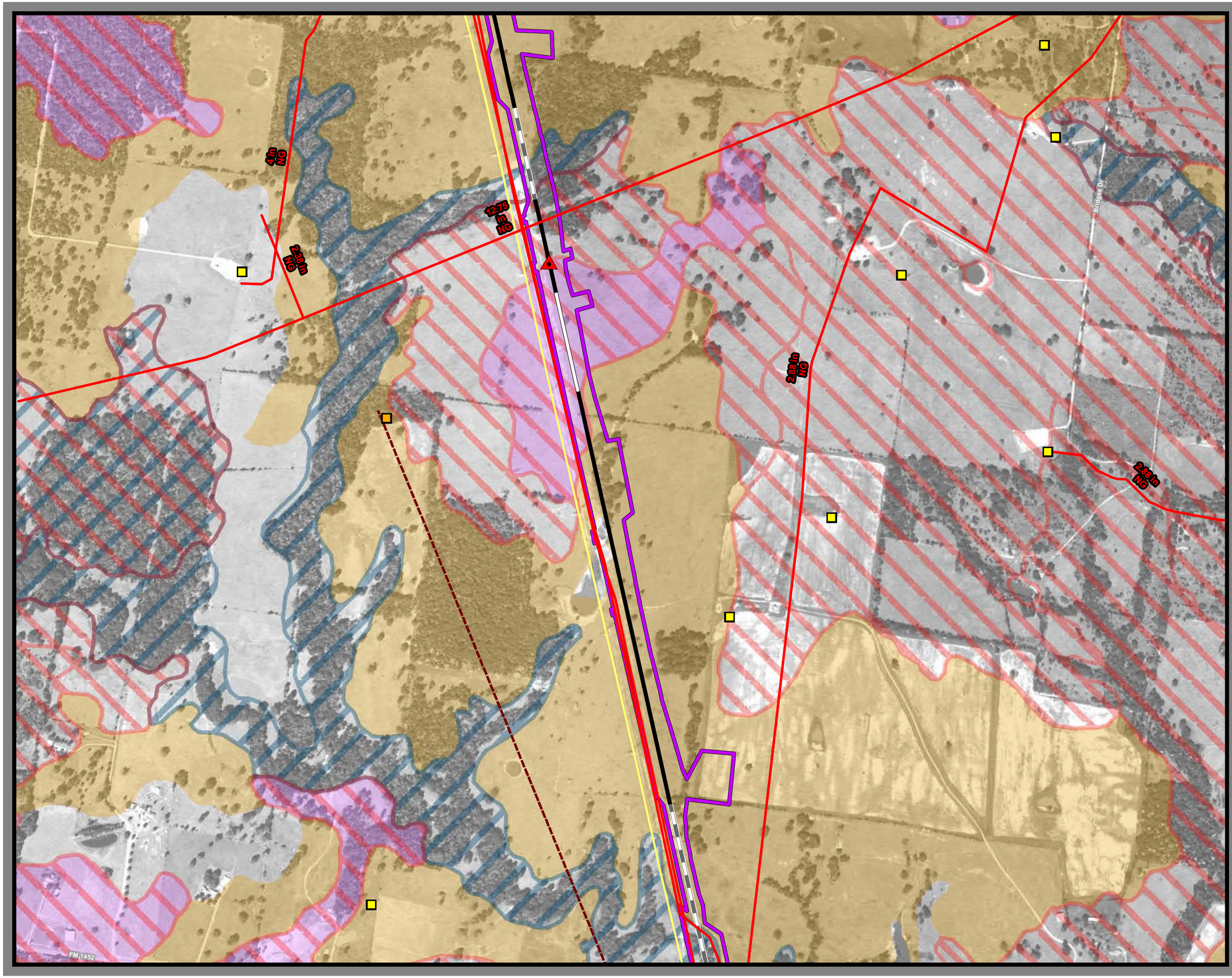
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

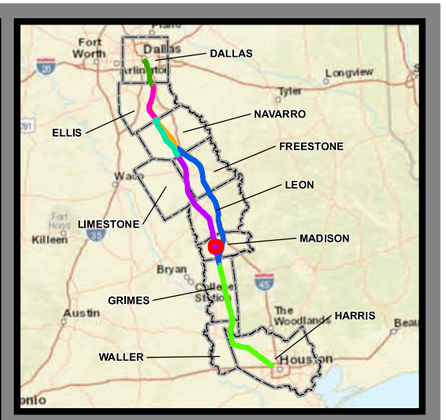
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

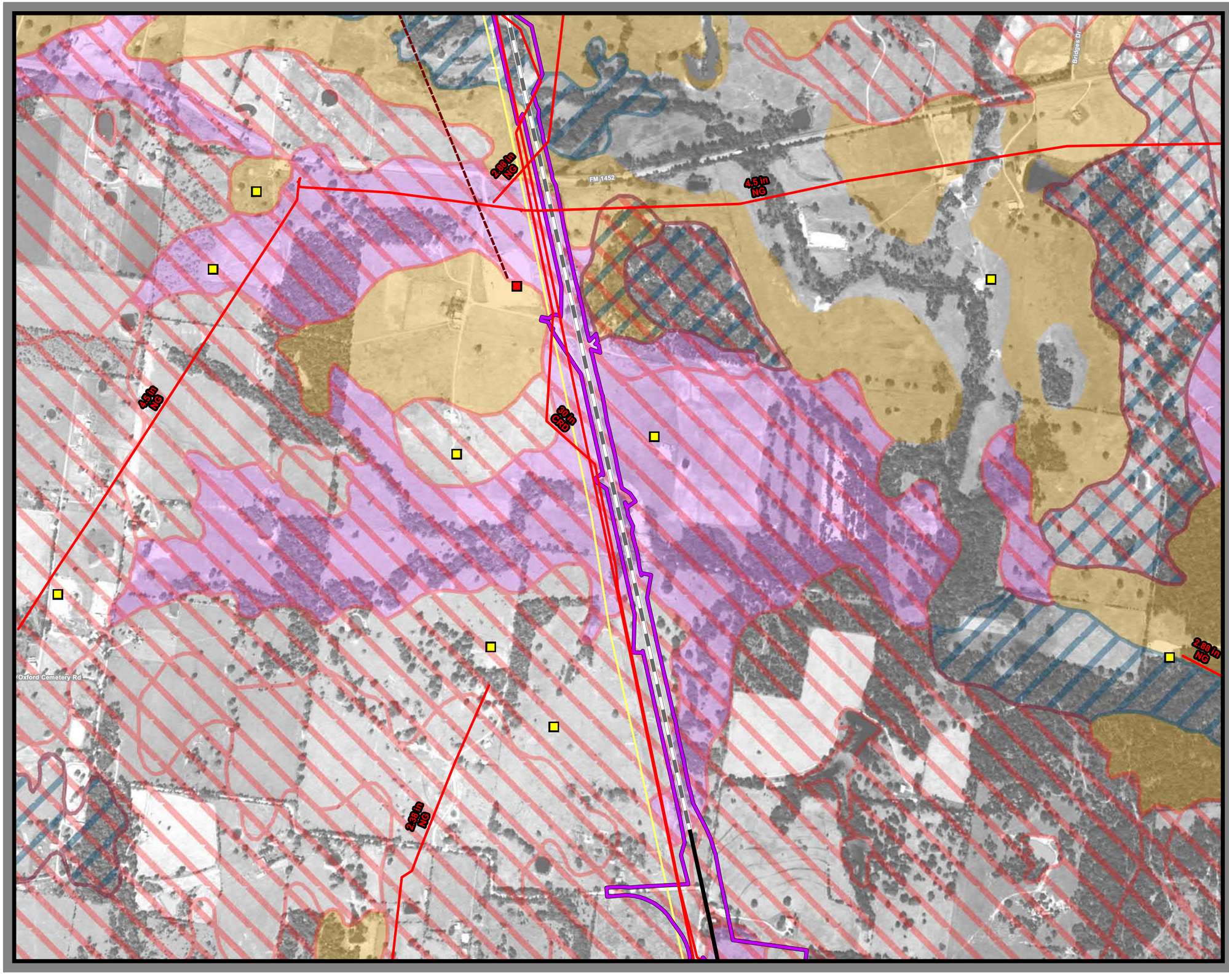
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

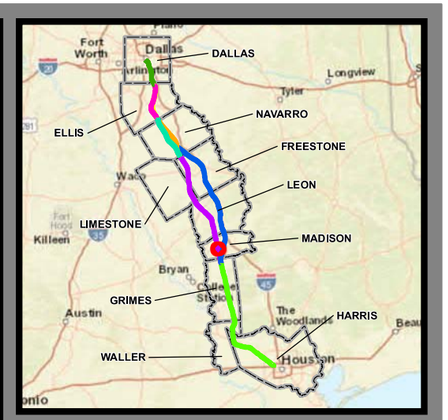
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

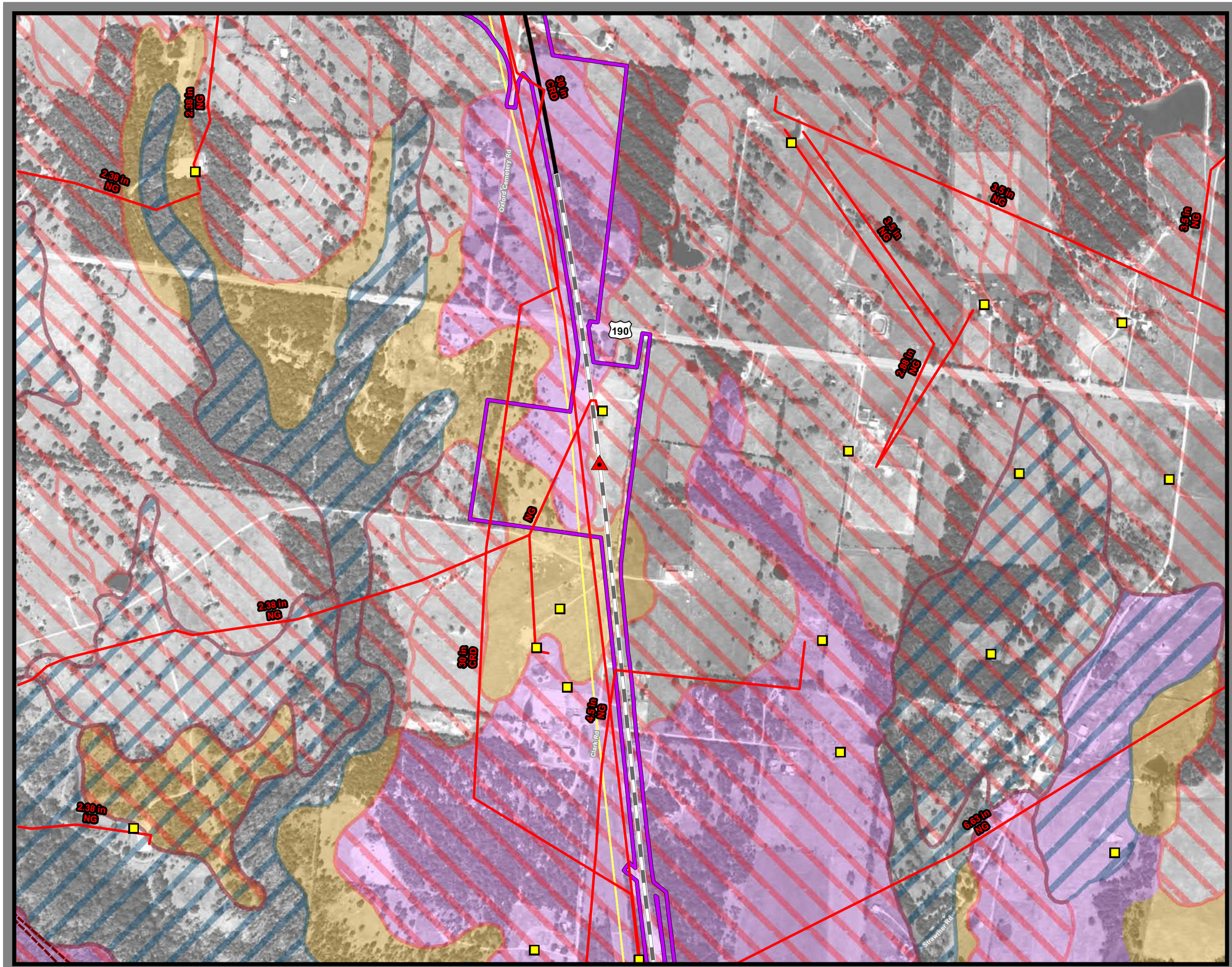
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

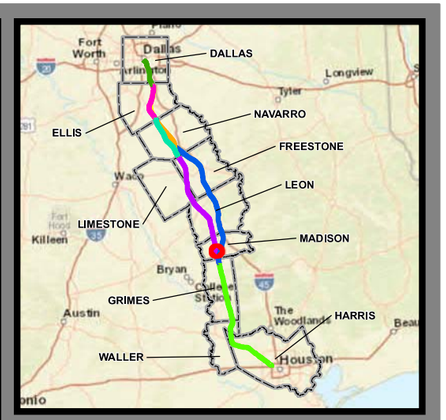
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

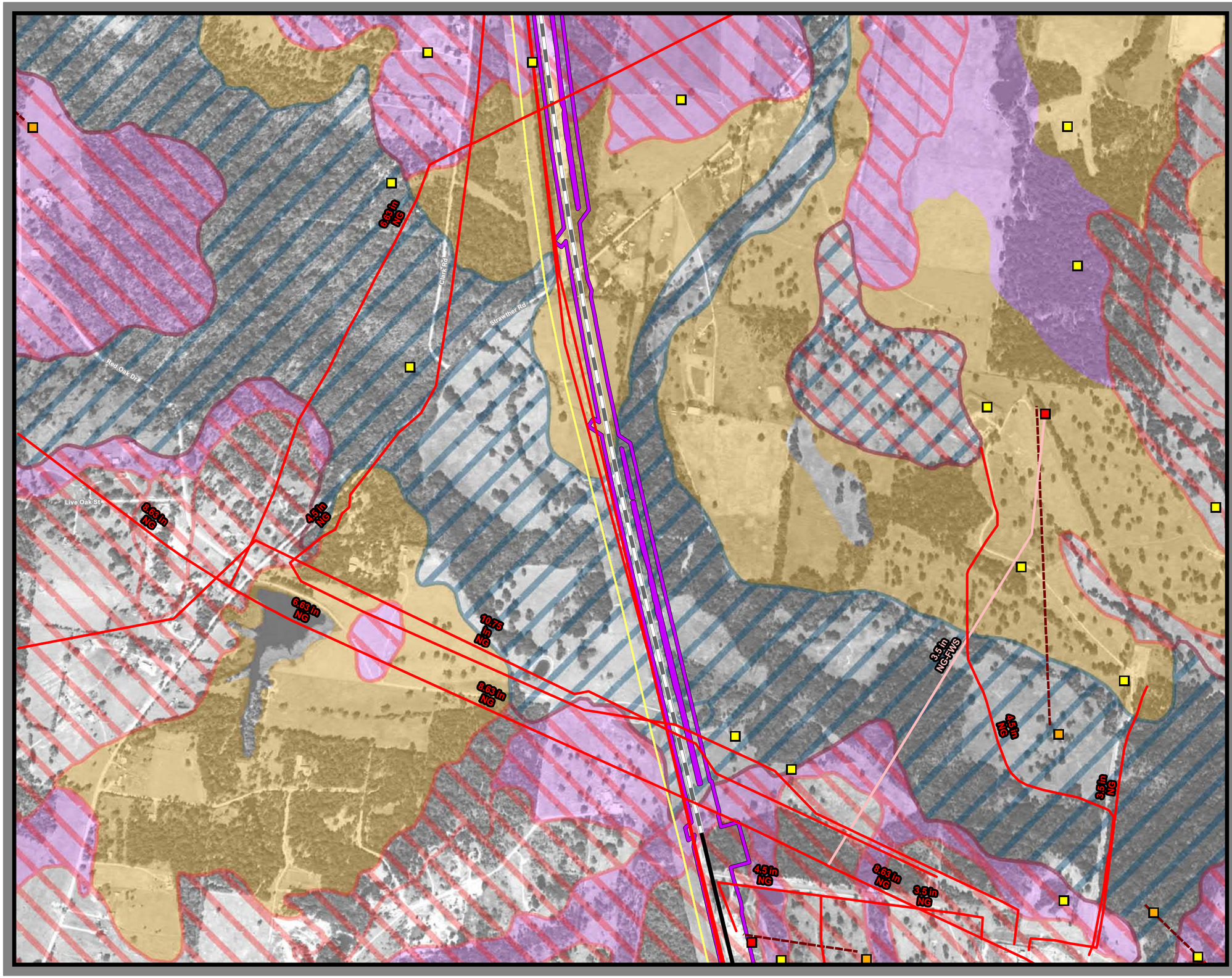
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

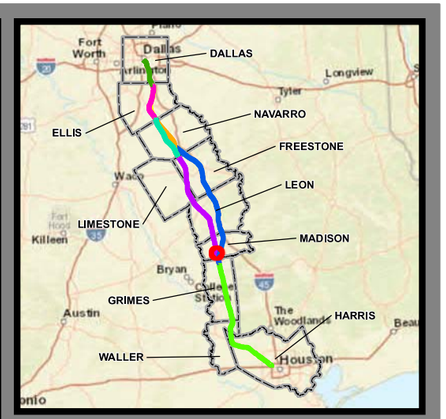
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

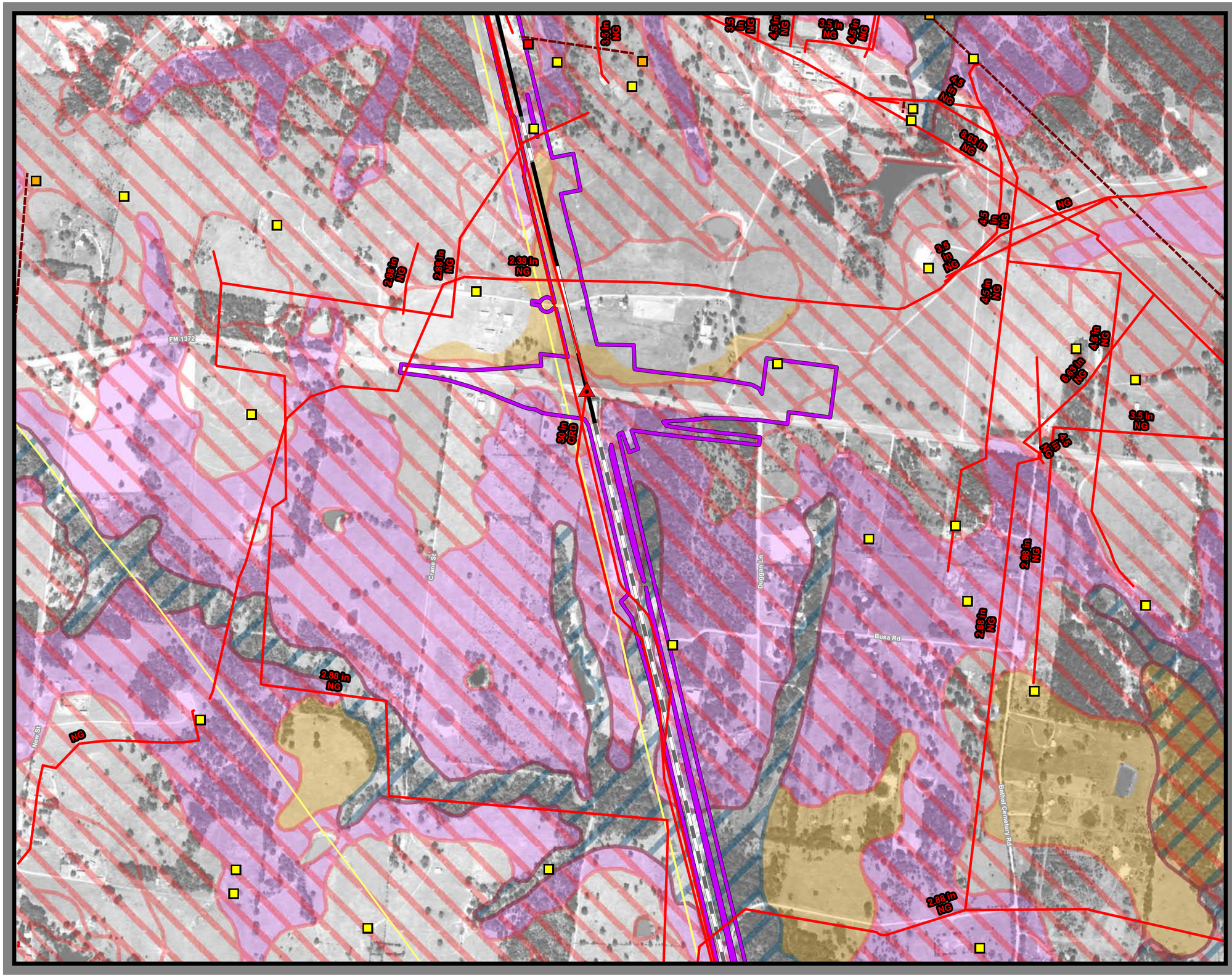
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

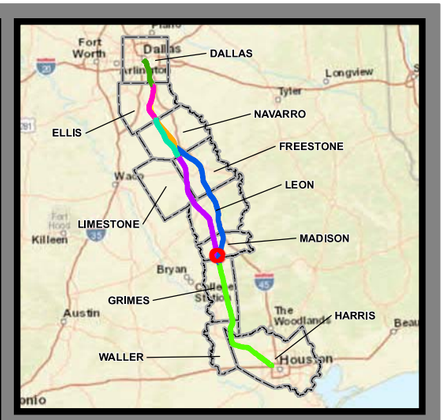
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

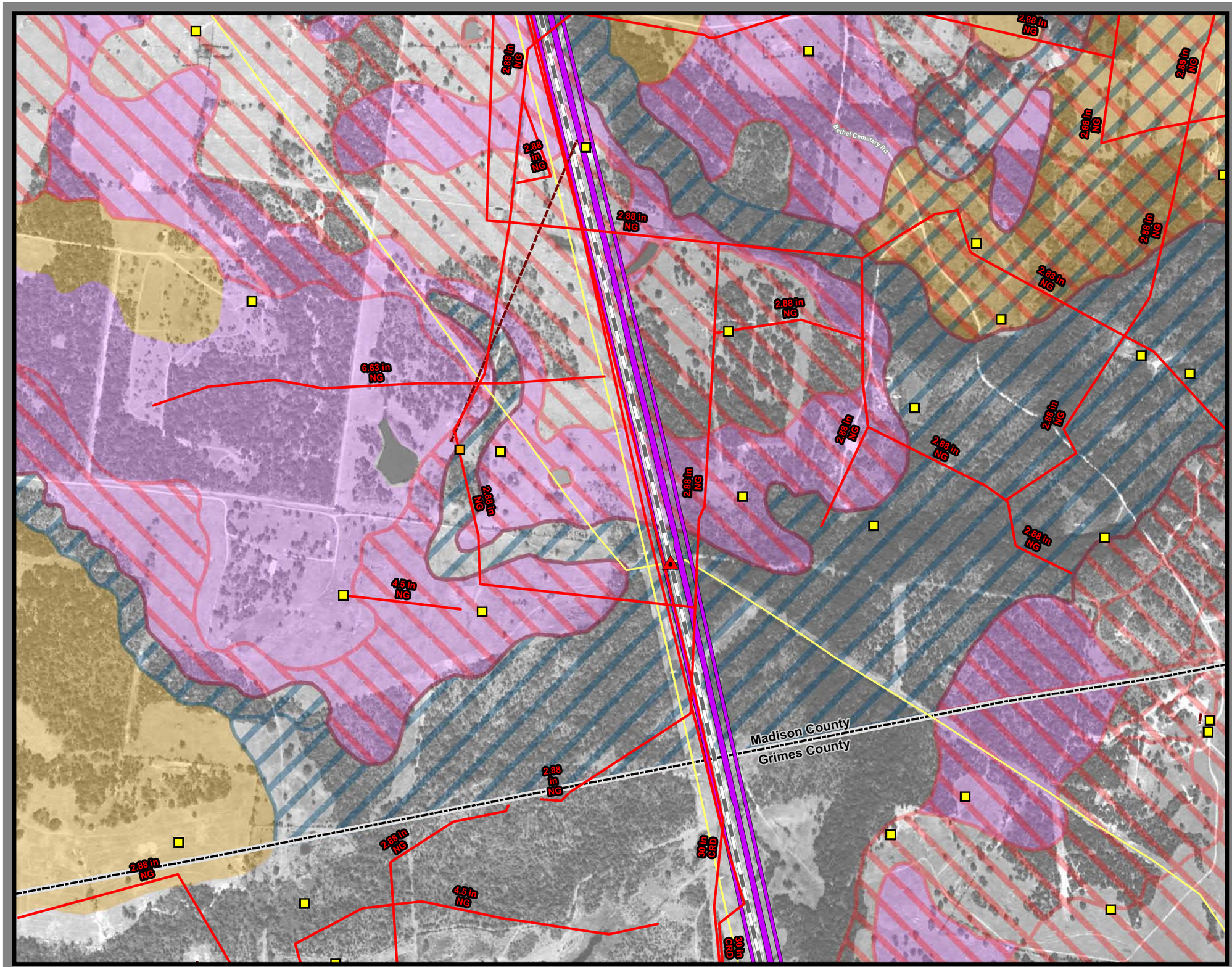
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

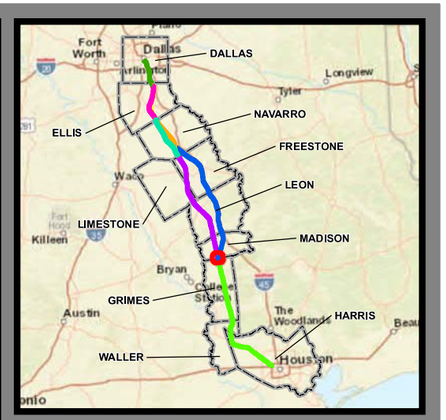
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
Feet
0 200 400 800

N W E S




**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 4
**Sheet 199 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

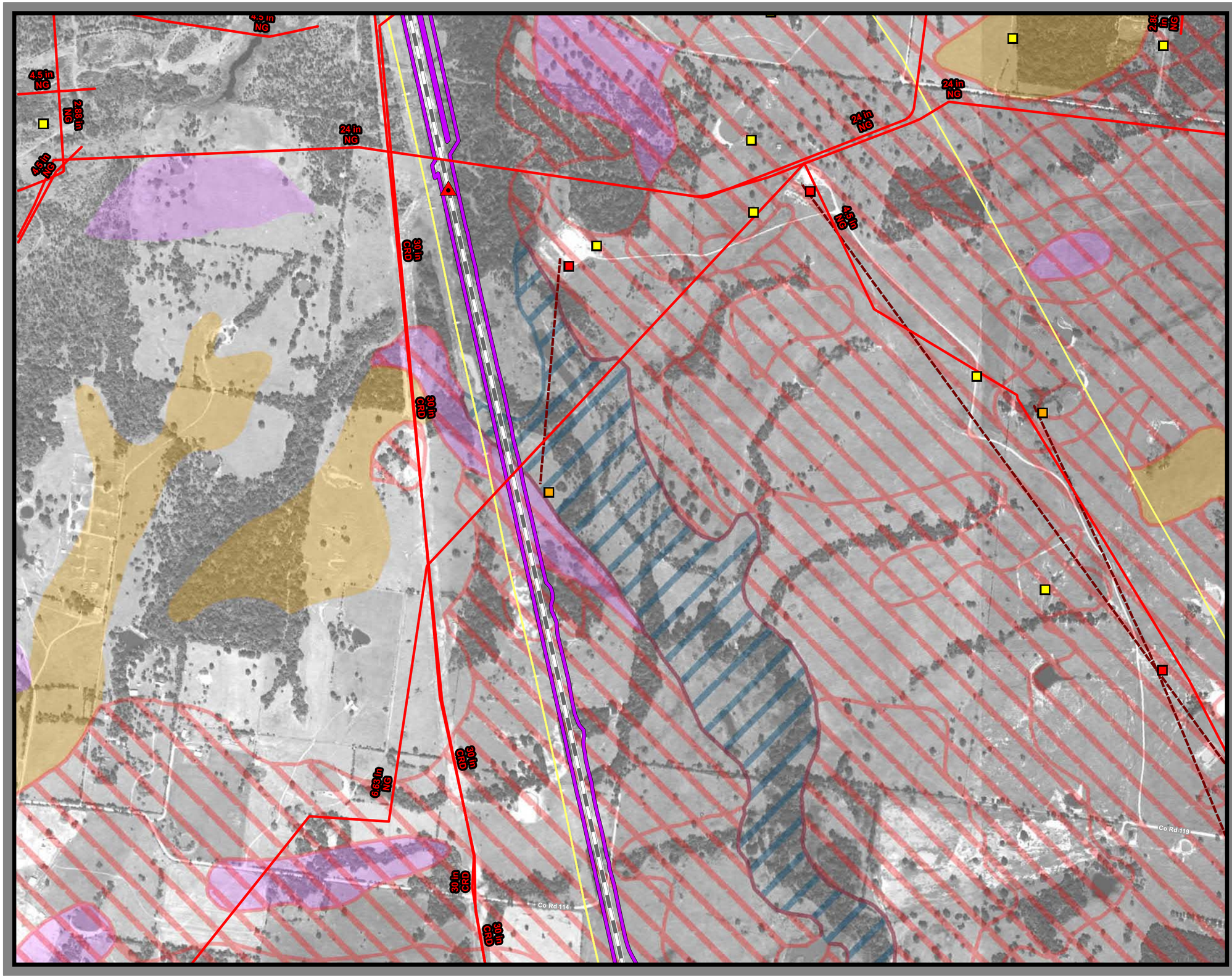
*****This Sheet only depicts Segment 4; Segment 3C is also located in this same area and can be referenced on Sheet 150.*****

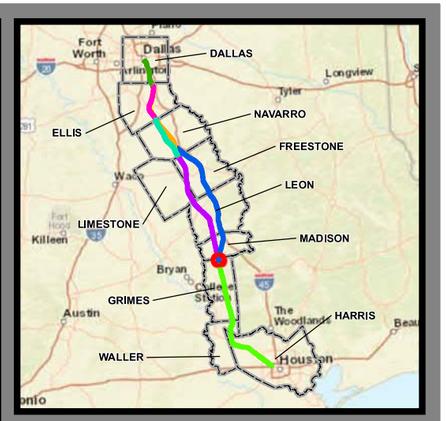
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 4
**Sheet 200 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

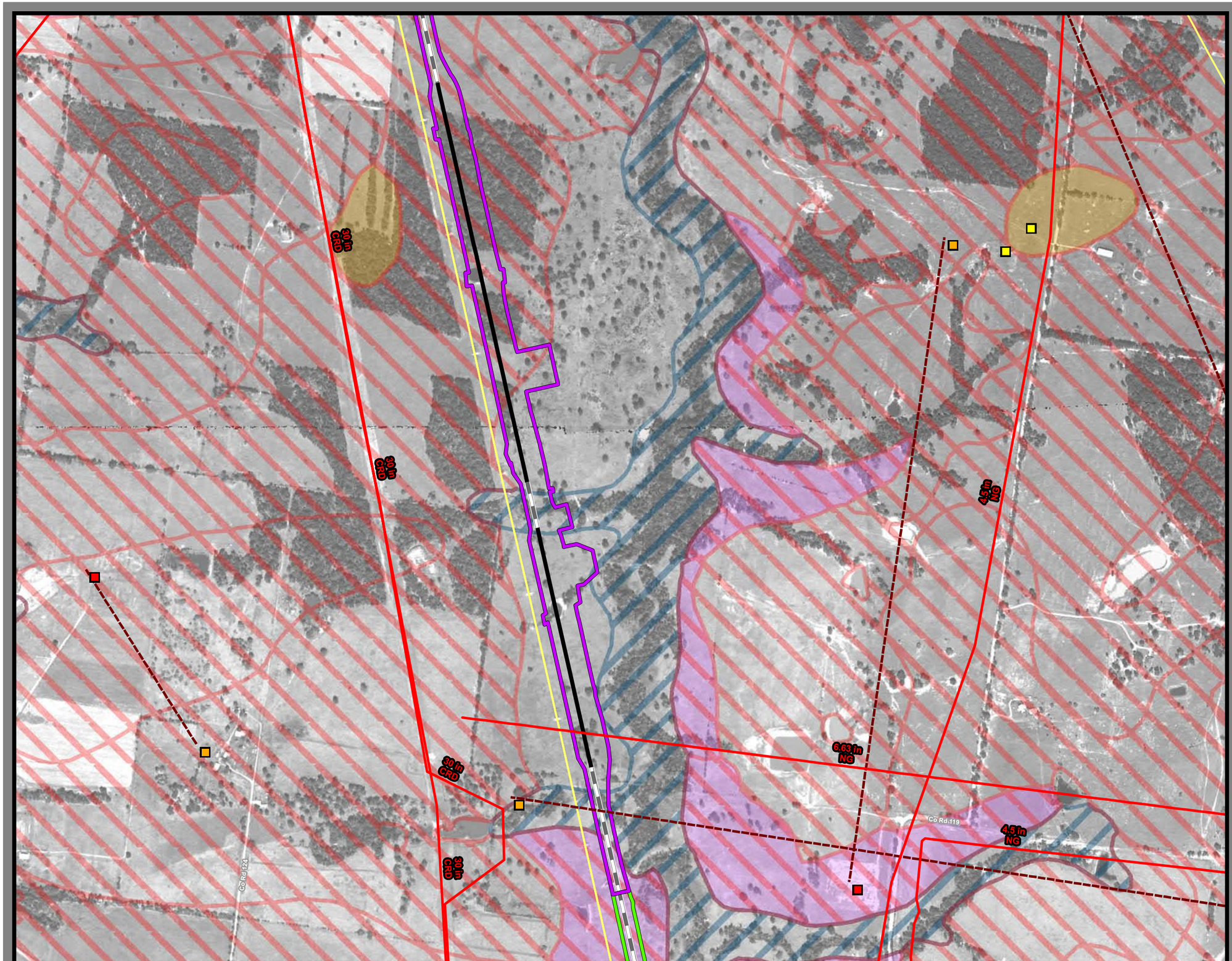
***This Sheet only depicts Segment 4; Segment 3C is also located in this same area and can be referenced on Sheet 151.***

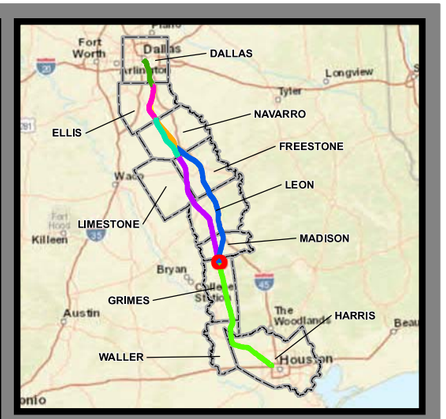
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

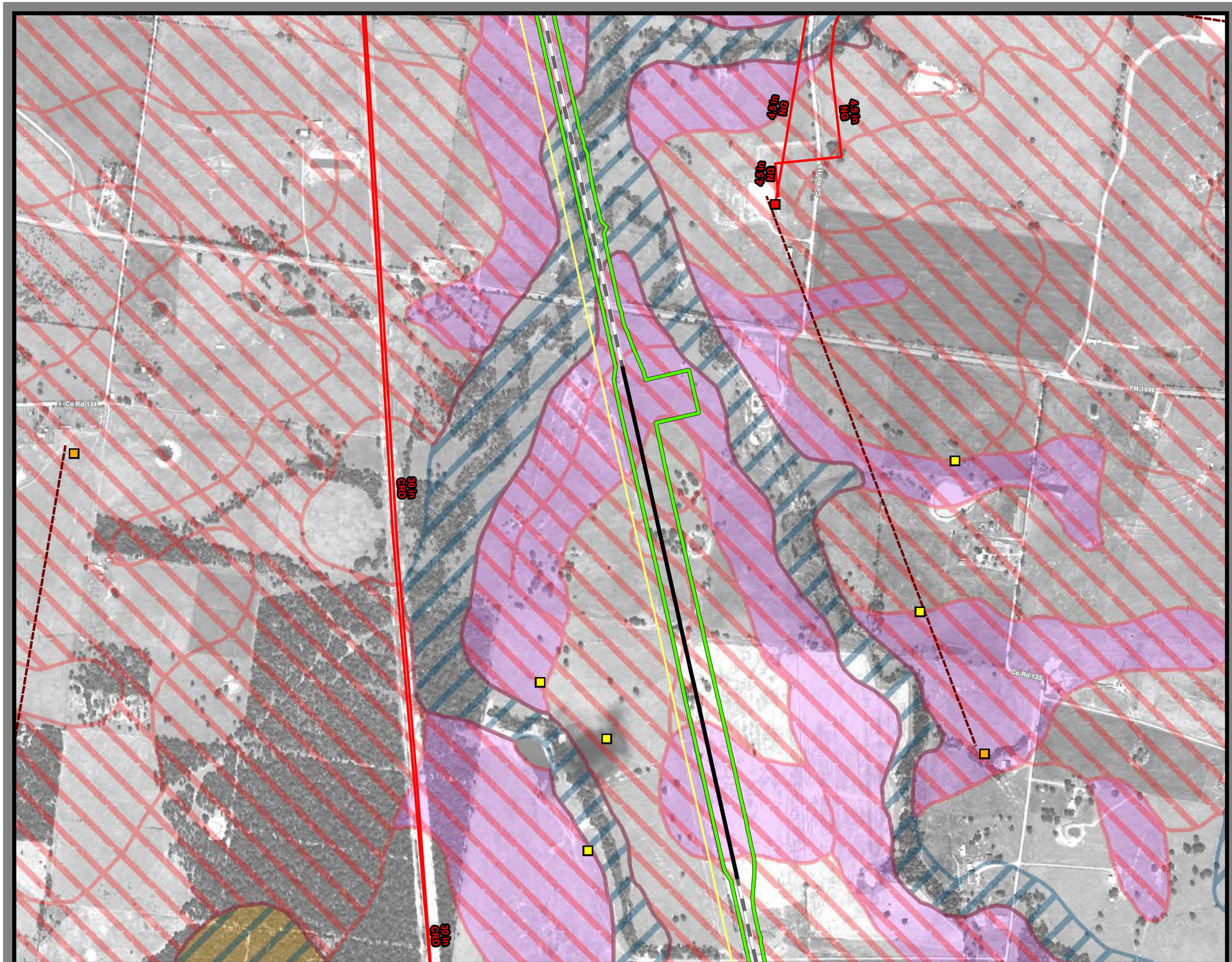
***This Sheet only depicts Segments 4 & 5; Segment 3C is also located in this same area and can be referenced on Sheet 152.***

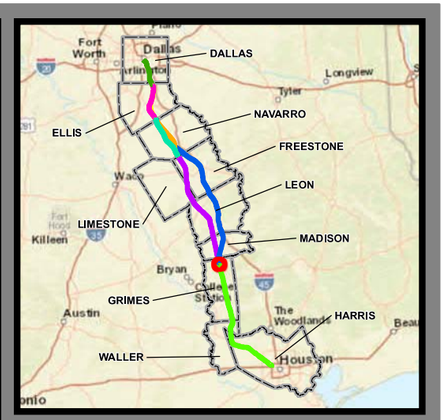
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

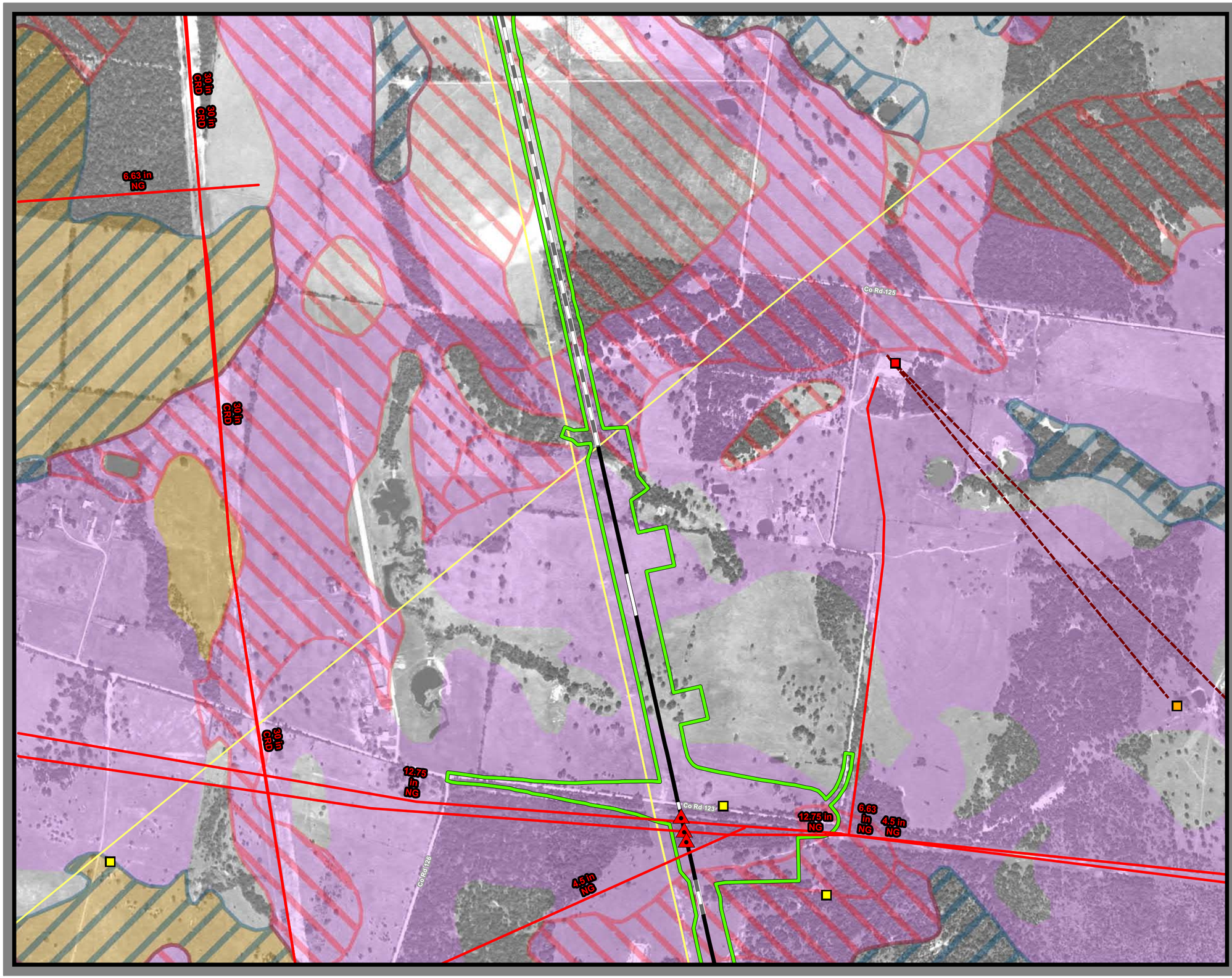
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

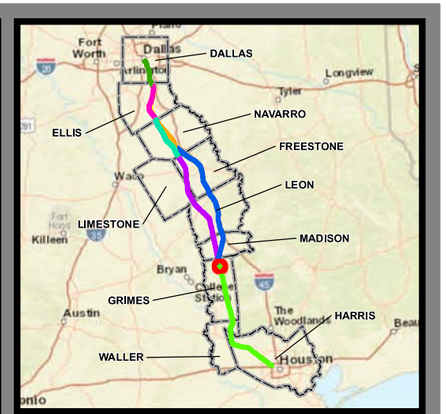
**Data Sources:** Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
**Aerial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

1 inch = 800 feet

0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

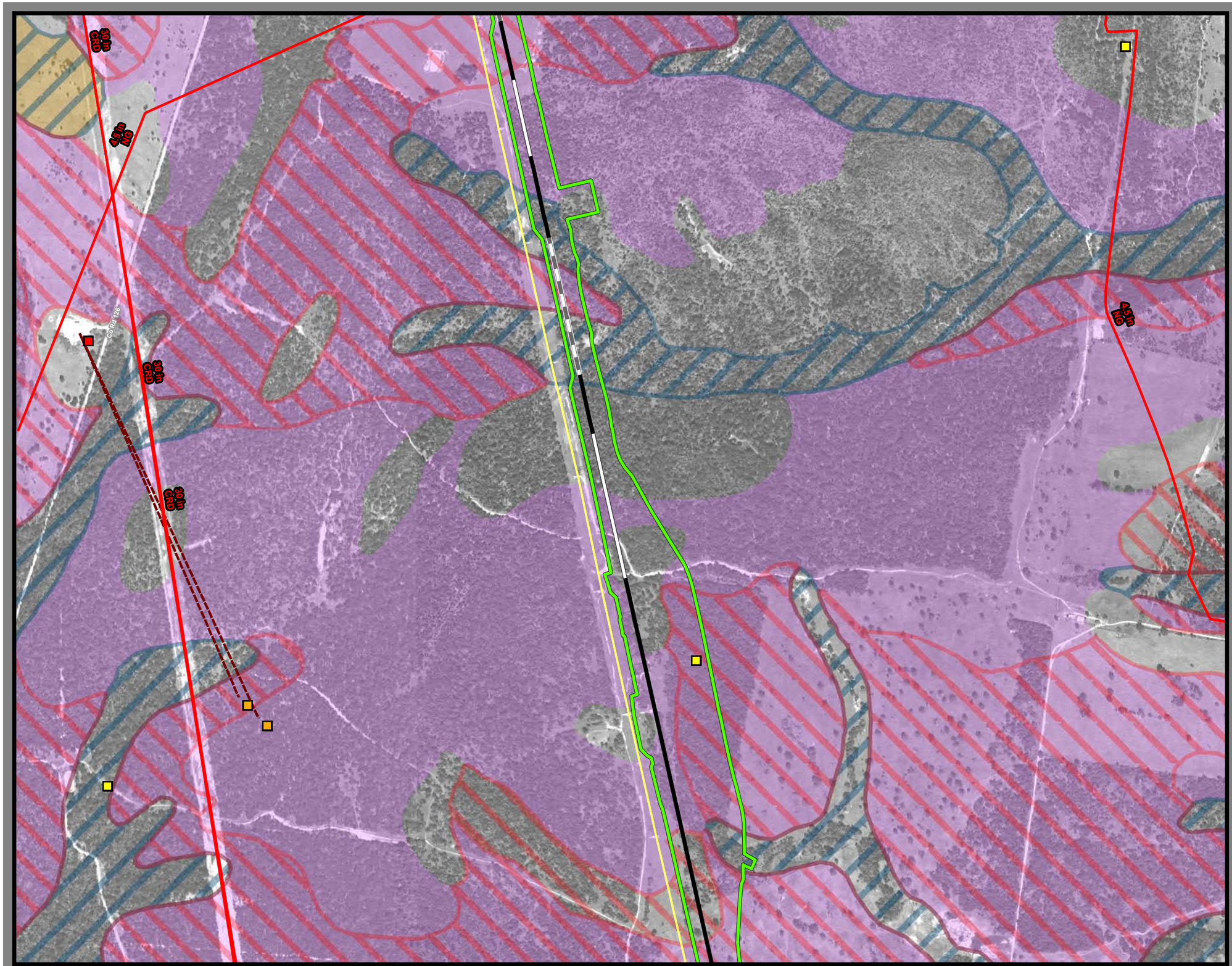
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

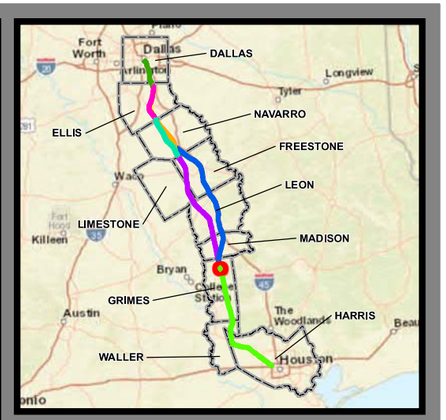
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

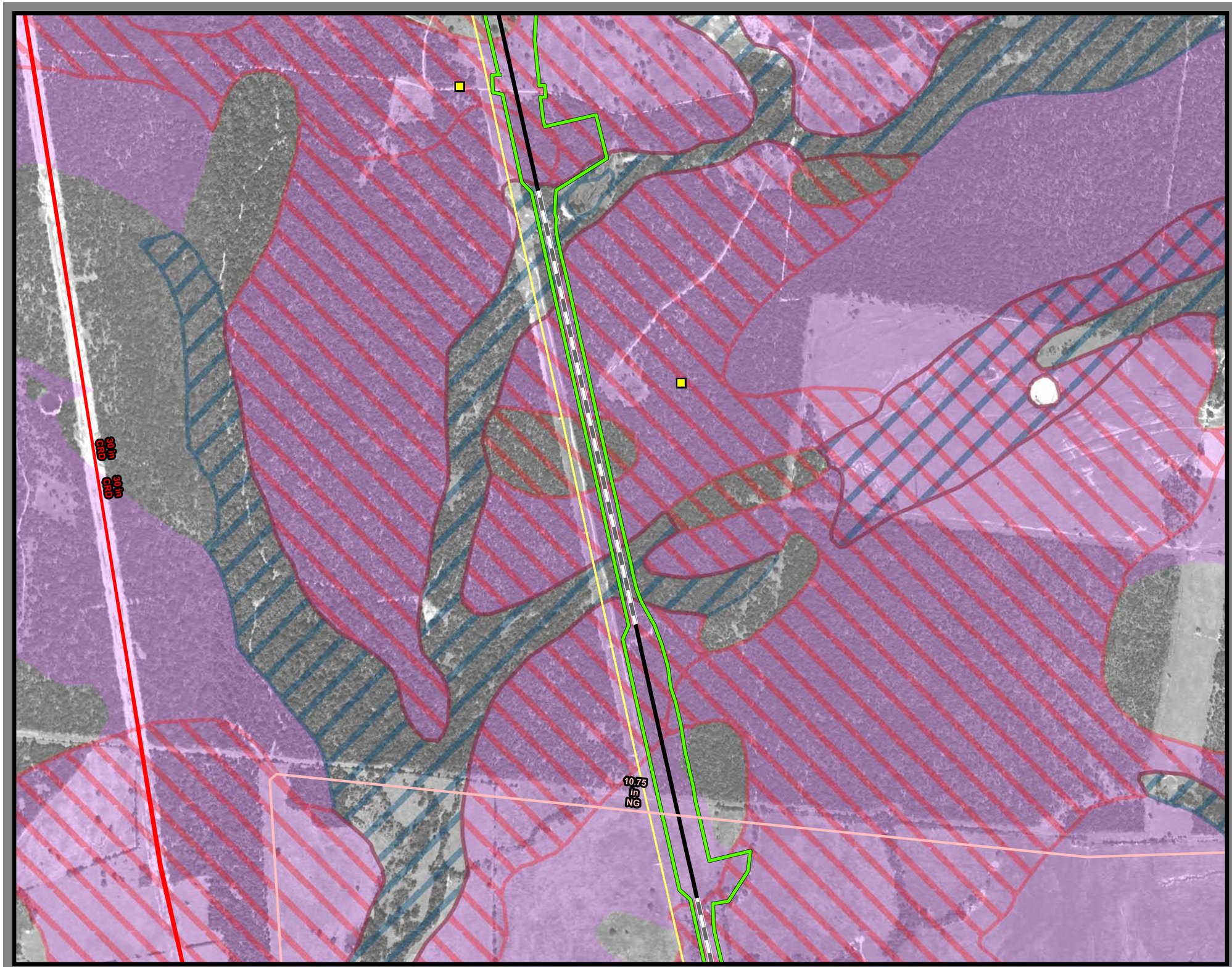
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

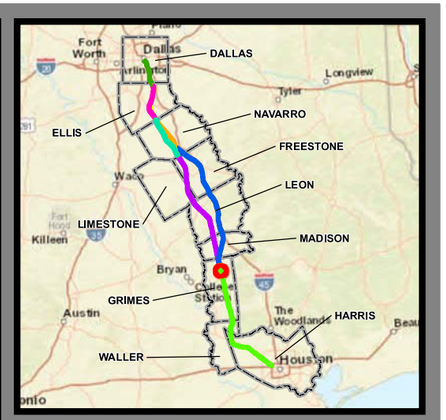
**Data Sources:** Faults - UT Bureau of Economic Geology; Soil Data - USDA/NRCS SSURGO 2016; Mines - USGS 2003; Electric Transmission Lines - Platts 2013; Oil/Gas Wells, Pipelines - Texas Railroad Commission 2015; Roads, Railroads - TxDOT 2015; Utility Crossings - ARUP 2017; ESRI Street Map
**Aerial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

1 inch = 800 feet

0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

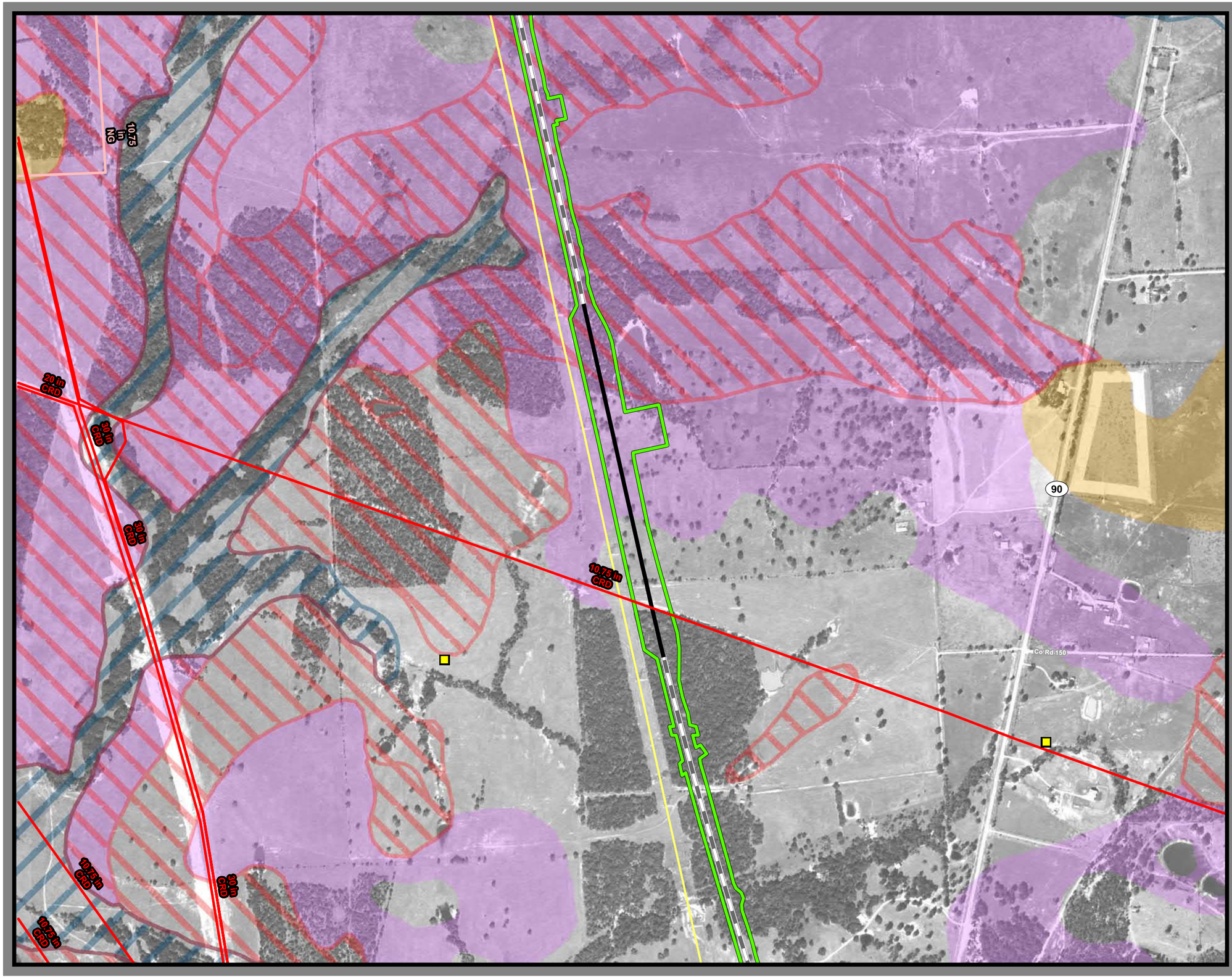
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

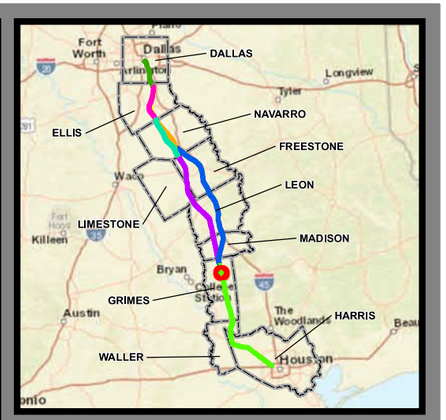
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

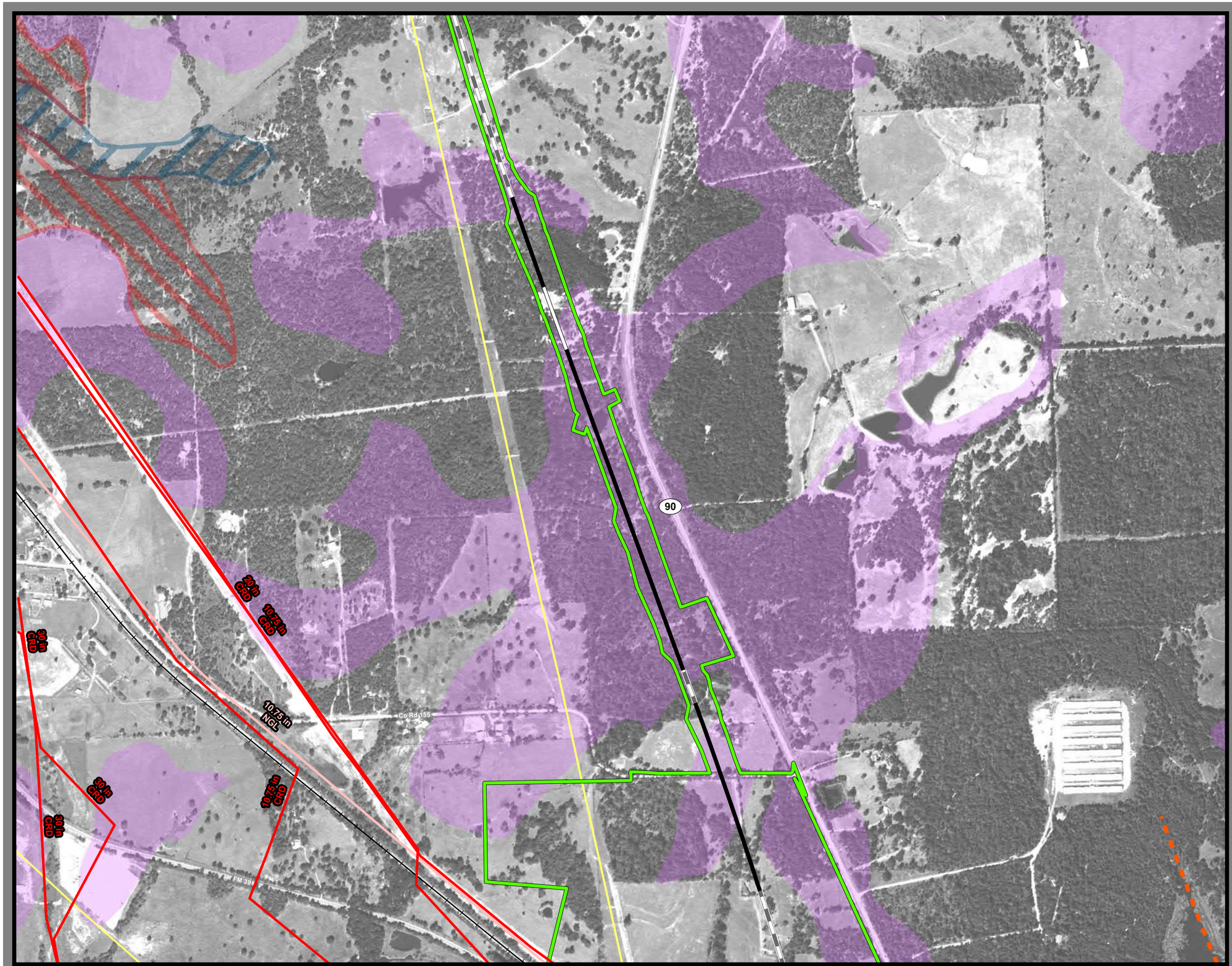
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

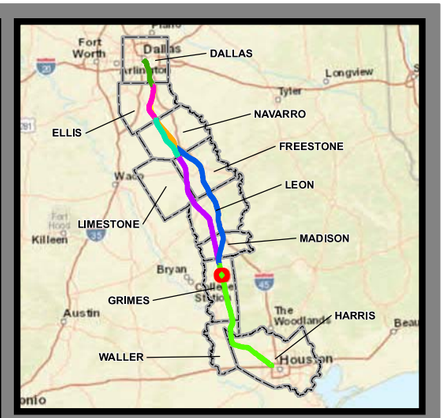
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

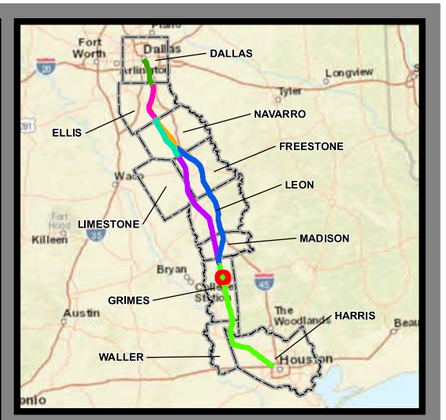
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S


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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

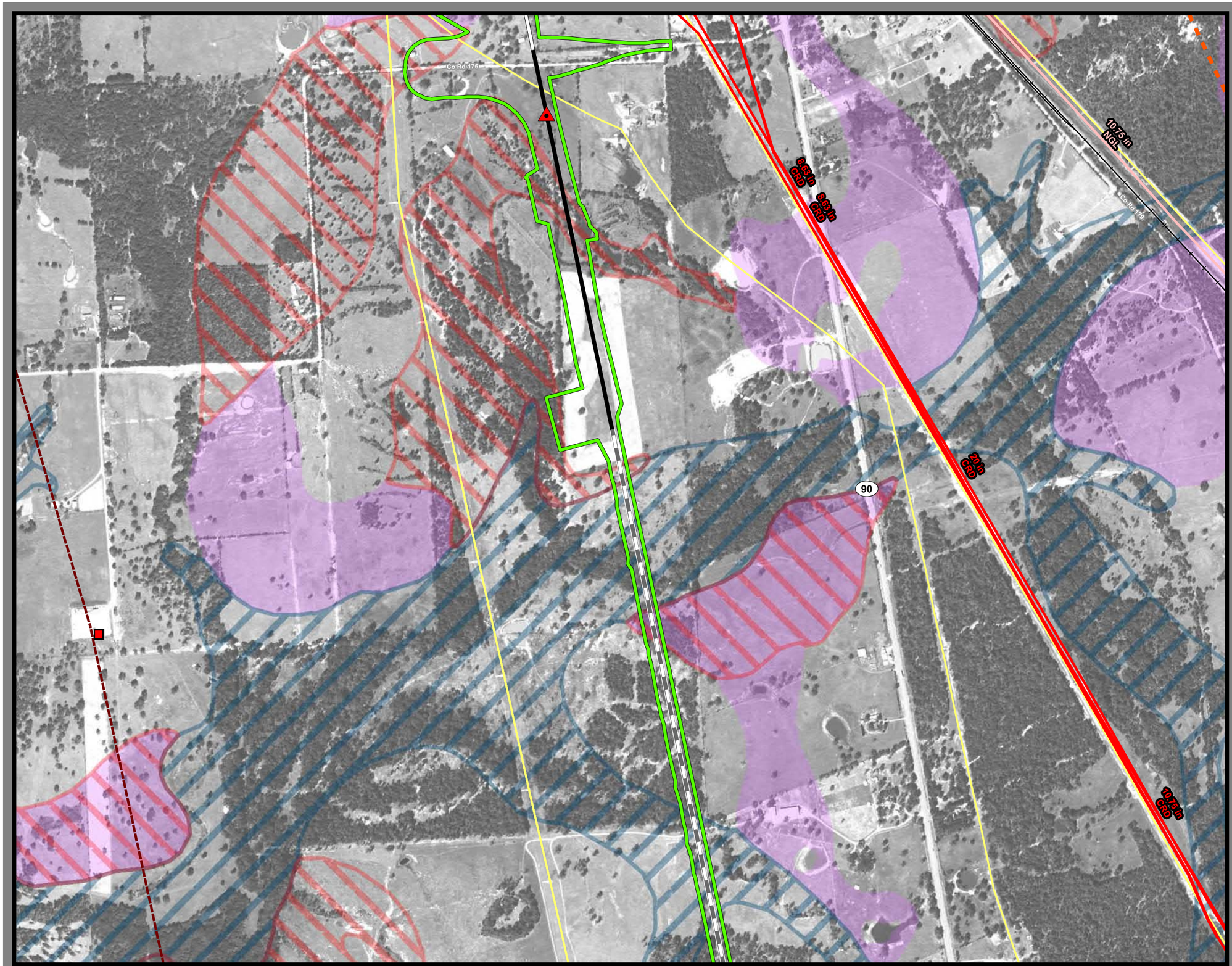
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

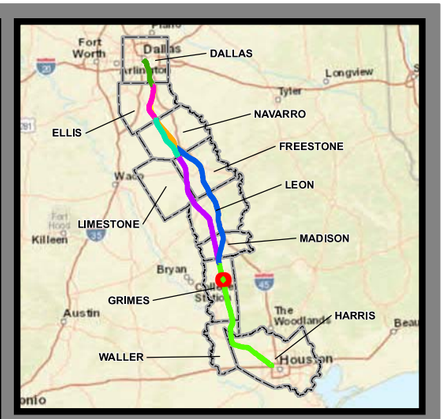
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

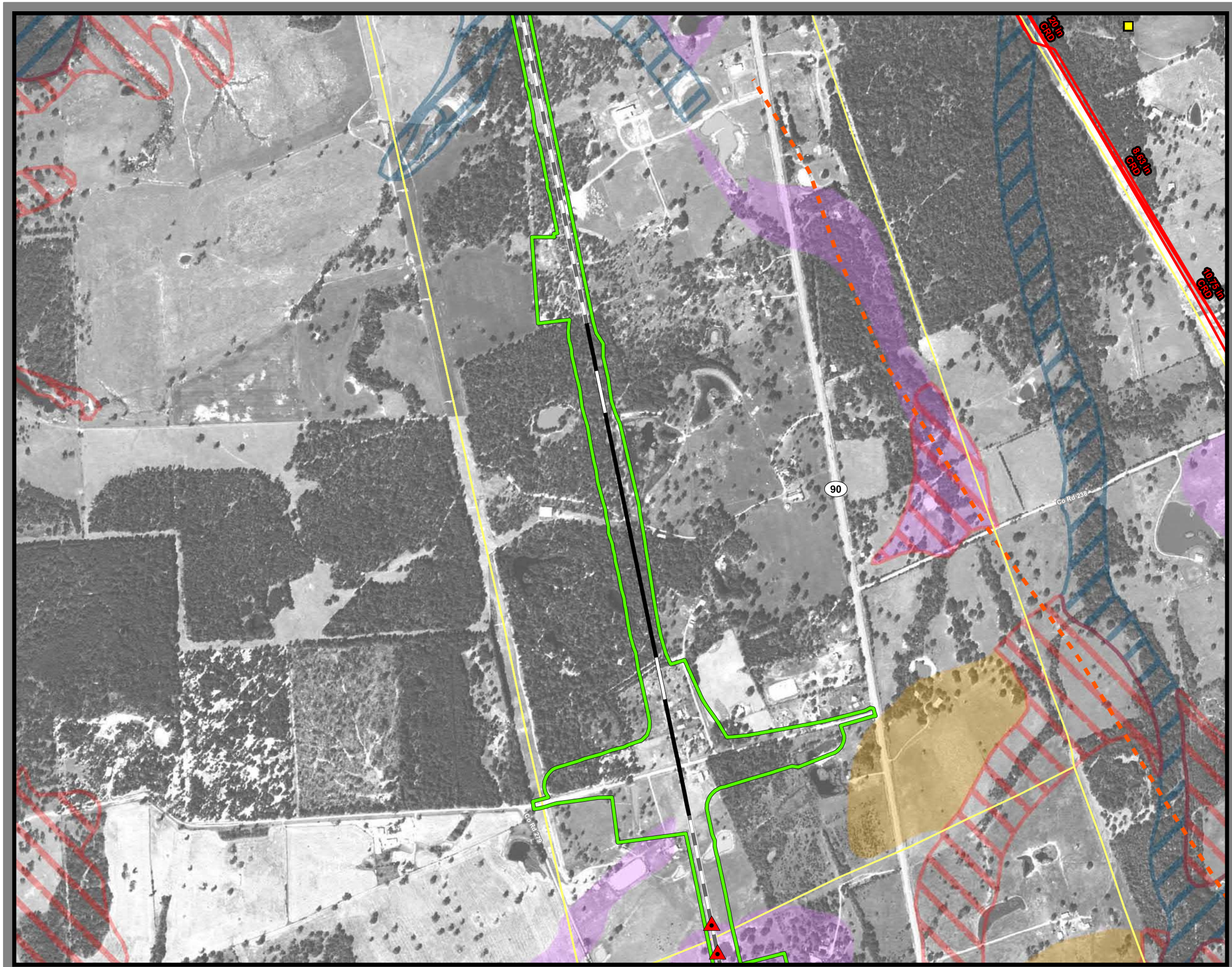
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

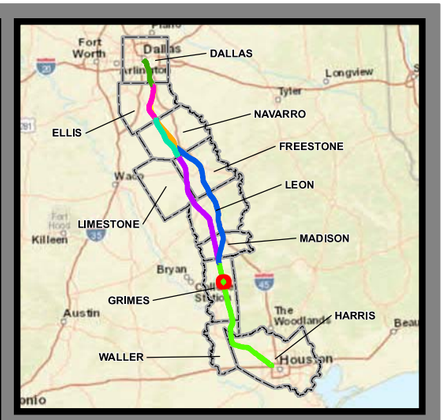
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

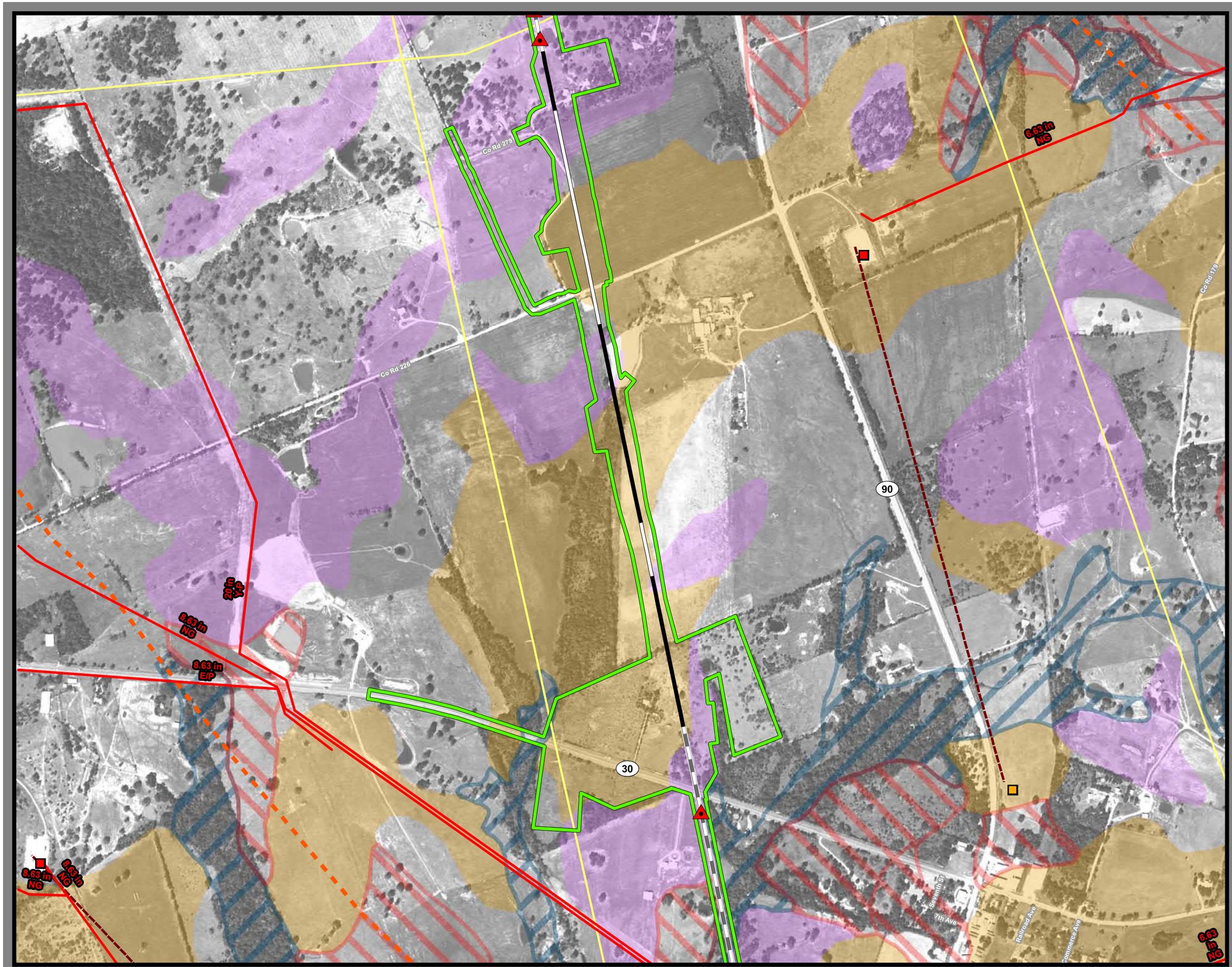
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

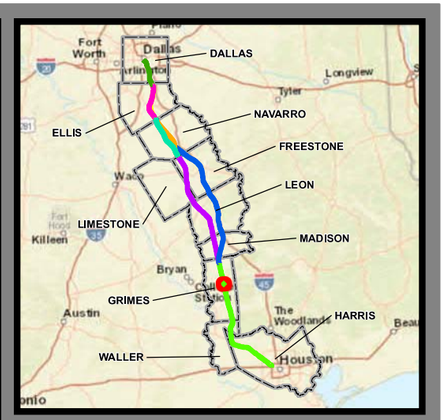
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

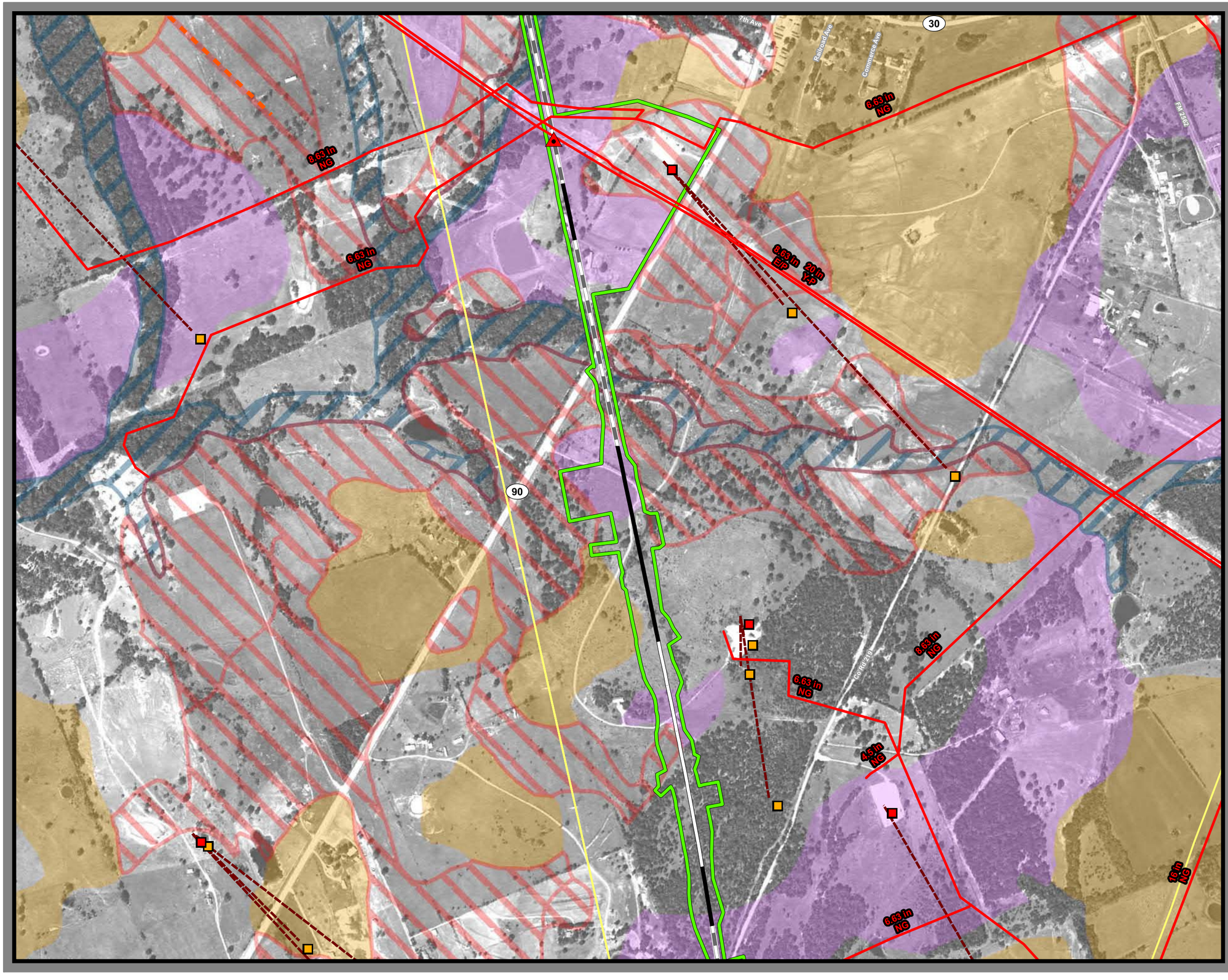
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

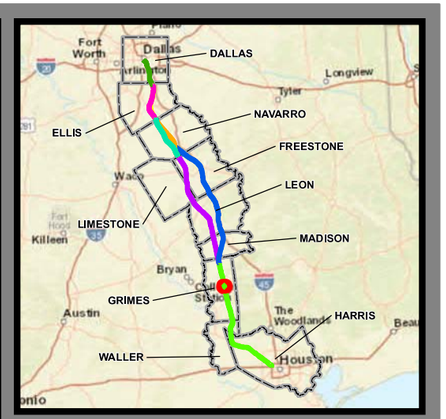
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

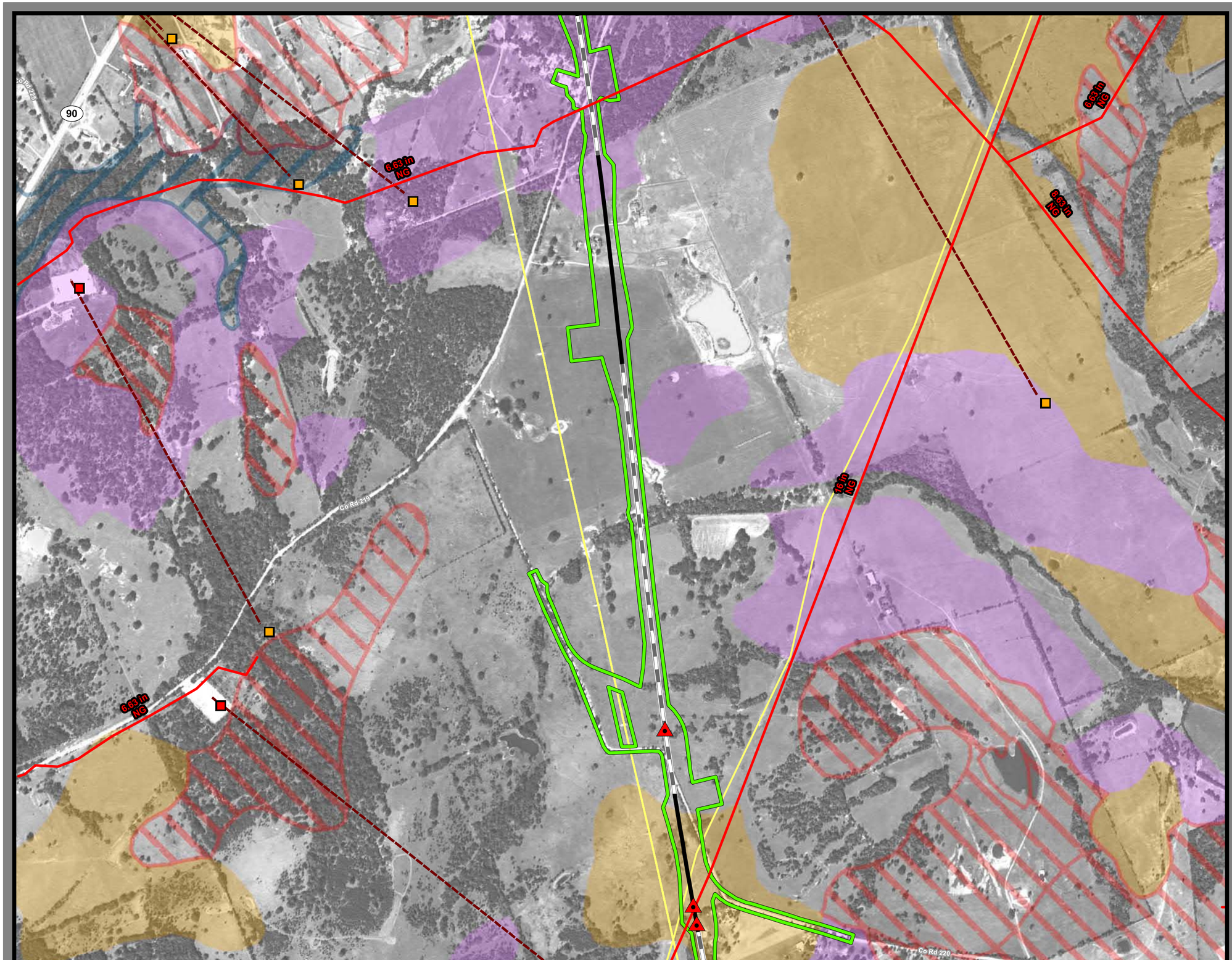
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

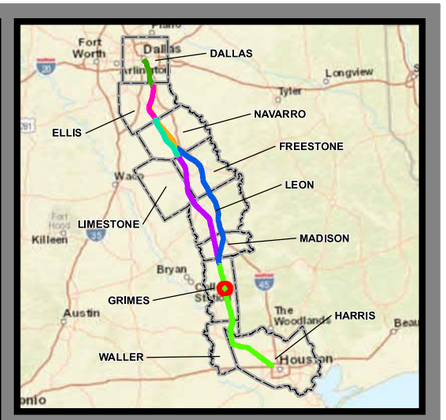
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 5
**Sheet 213 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

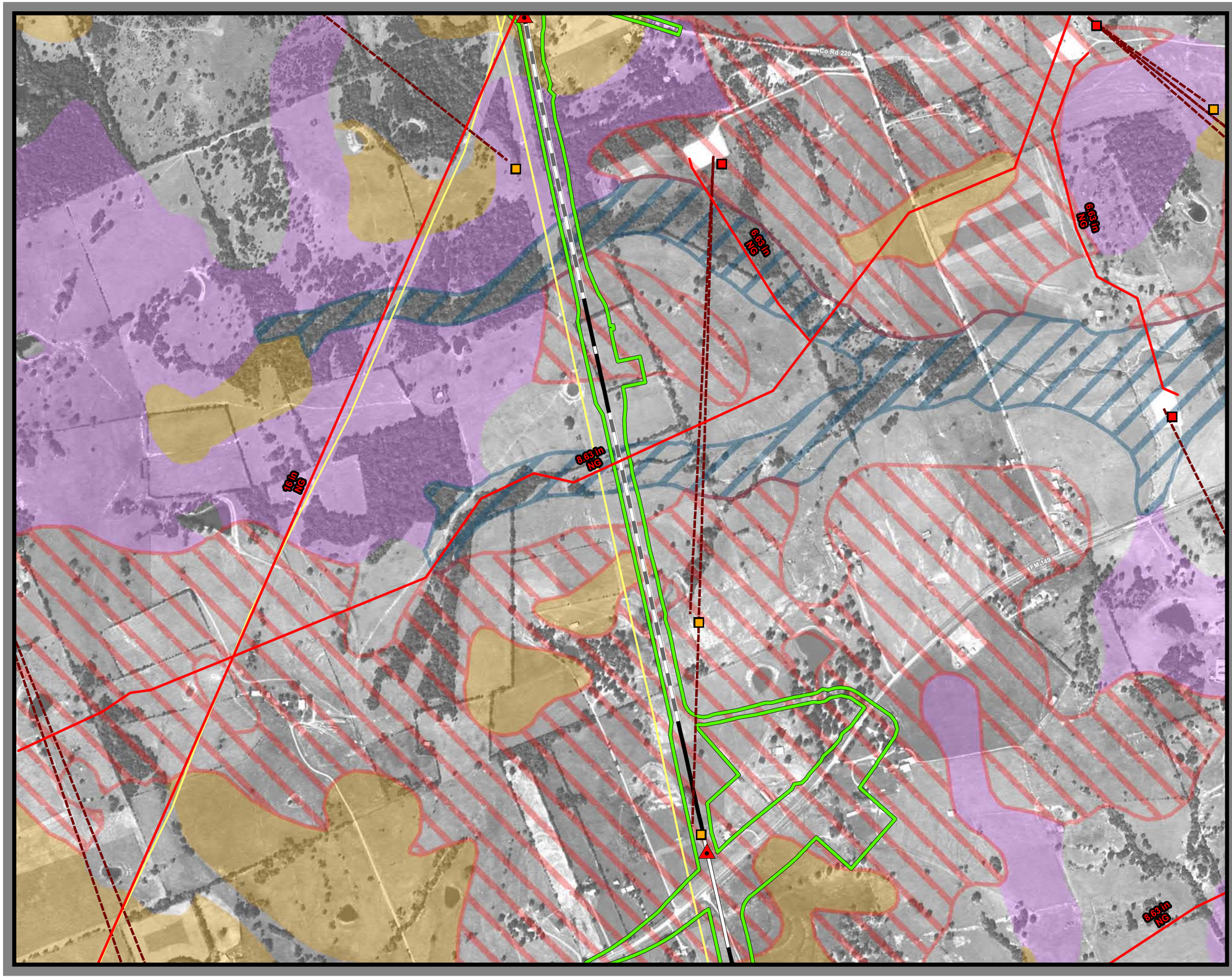
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

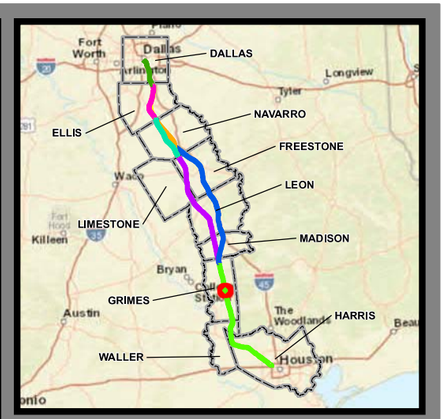
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

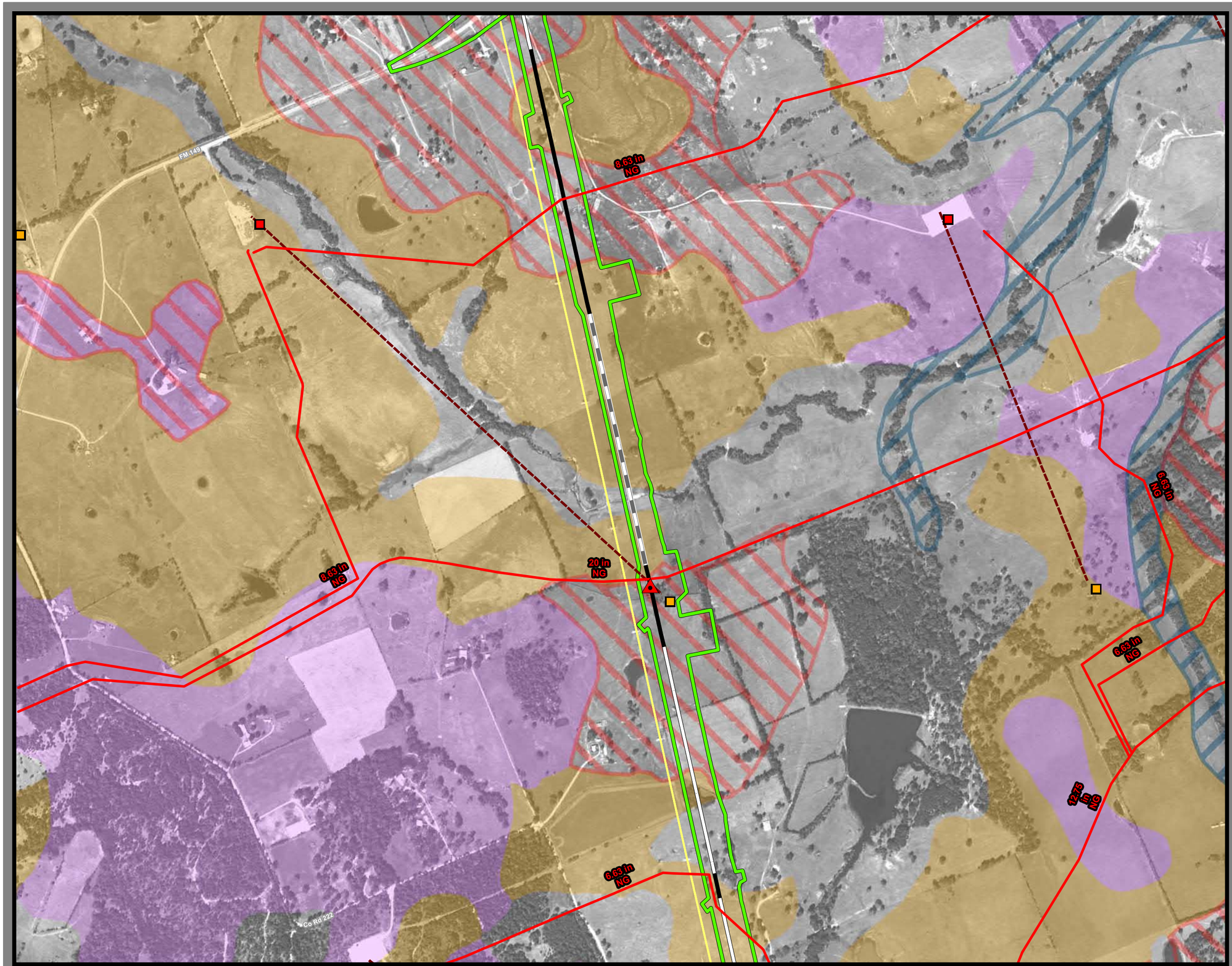
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

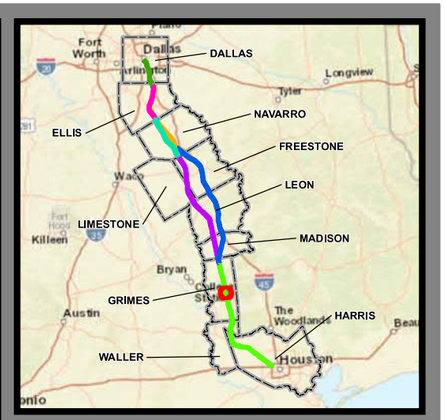
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

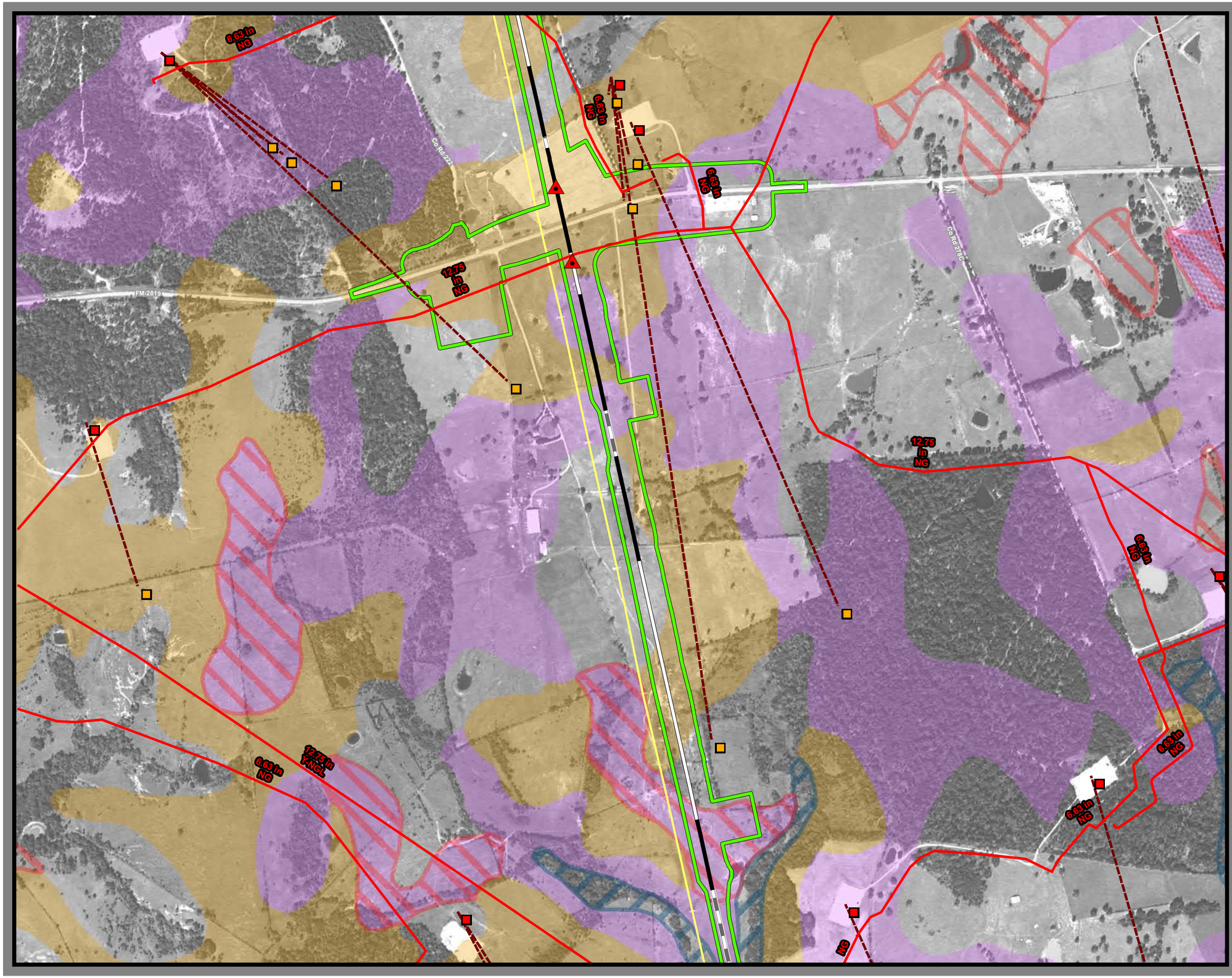
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

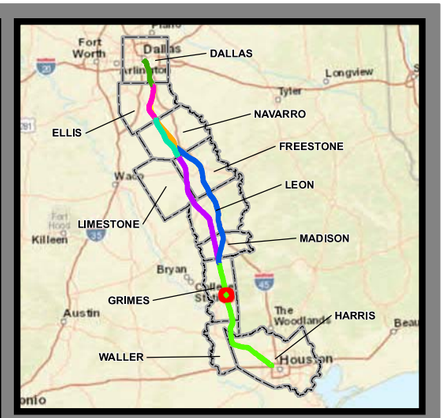
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

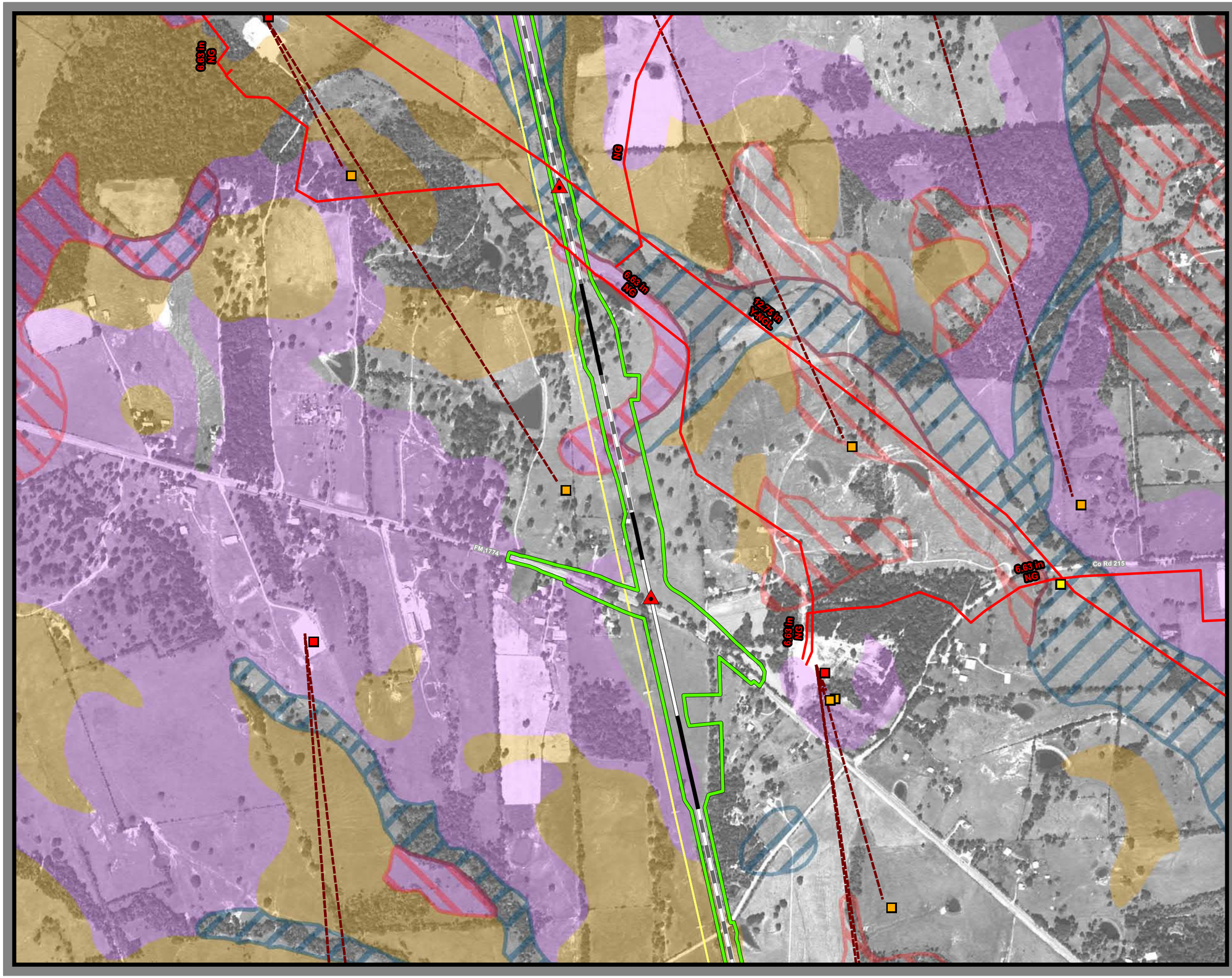
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

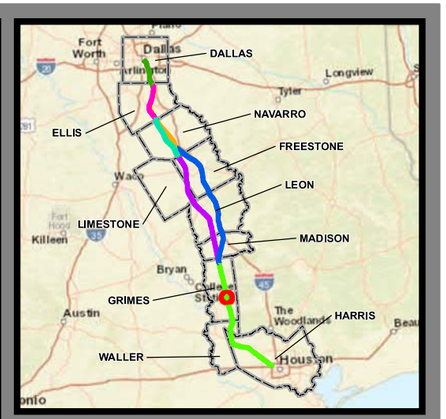
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
Feet
0 200 400 800

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

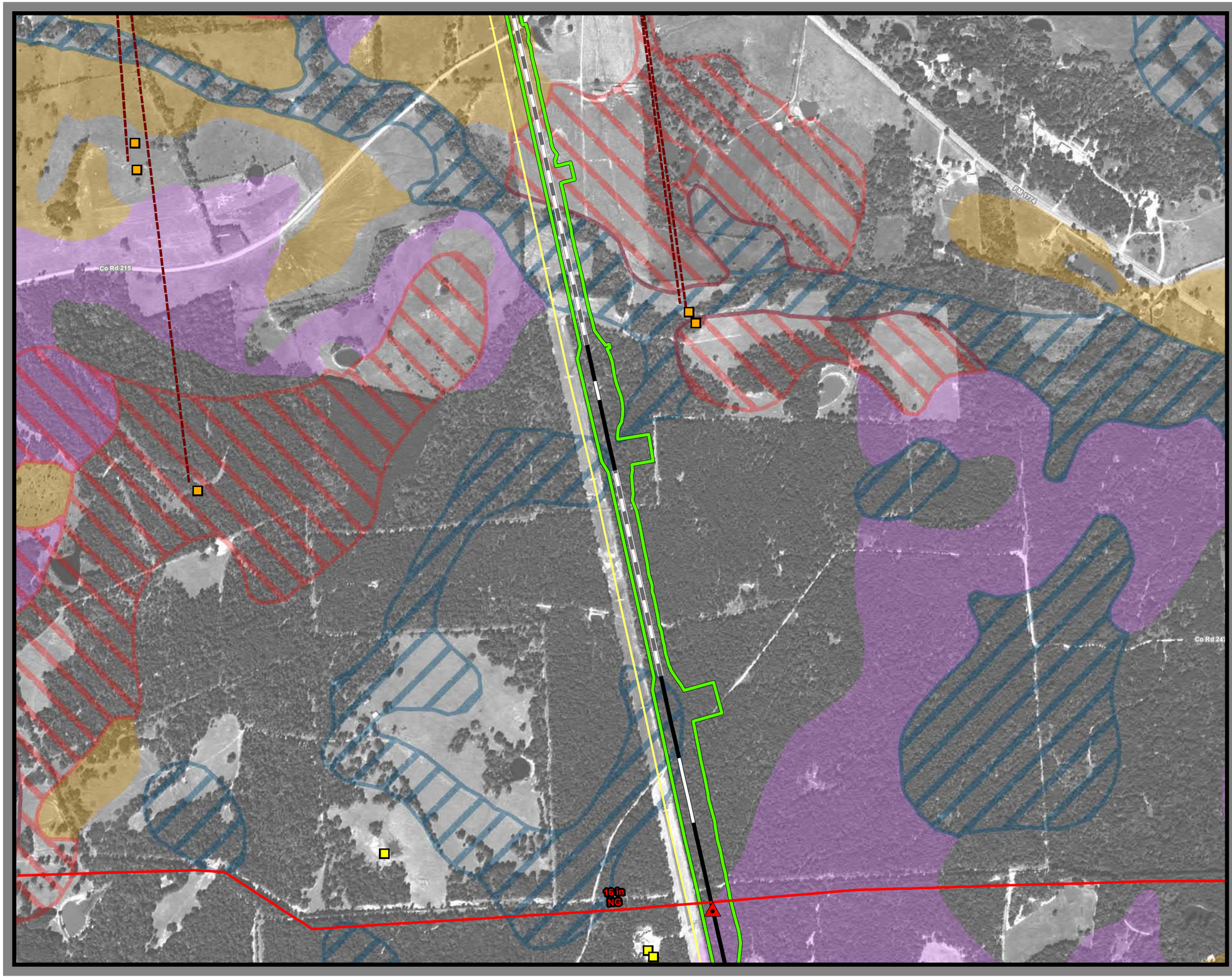
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

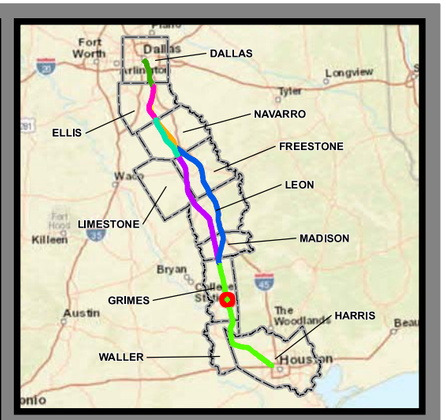
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 5
**Sheet 218 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

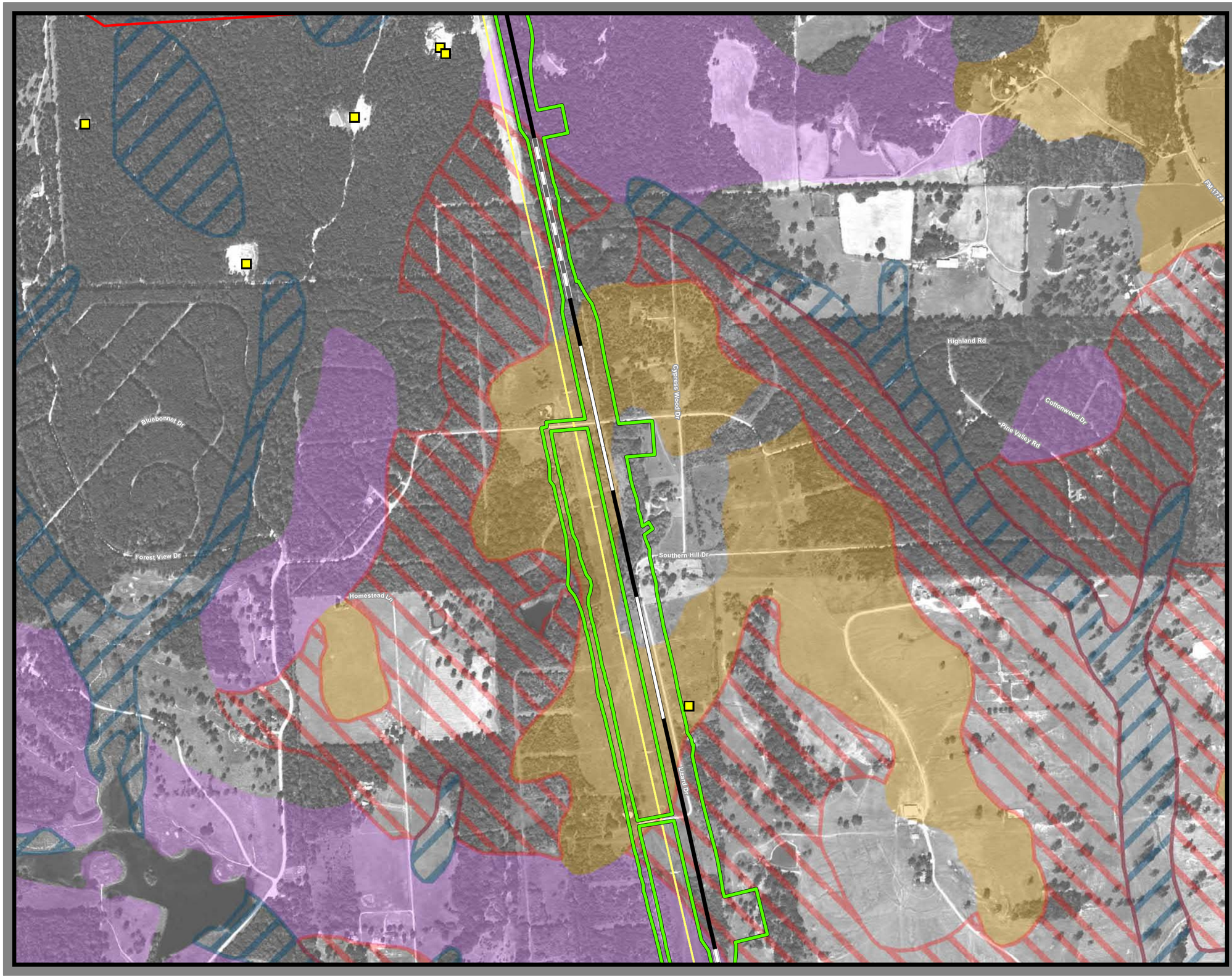
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

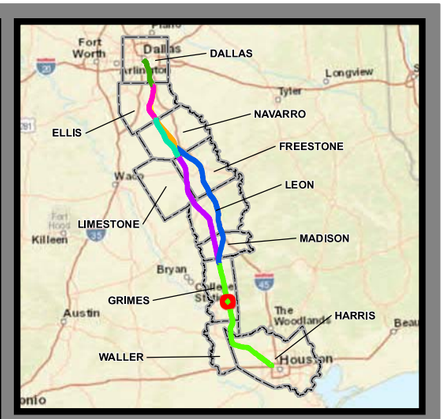
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 5
**Sheet 219 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

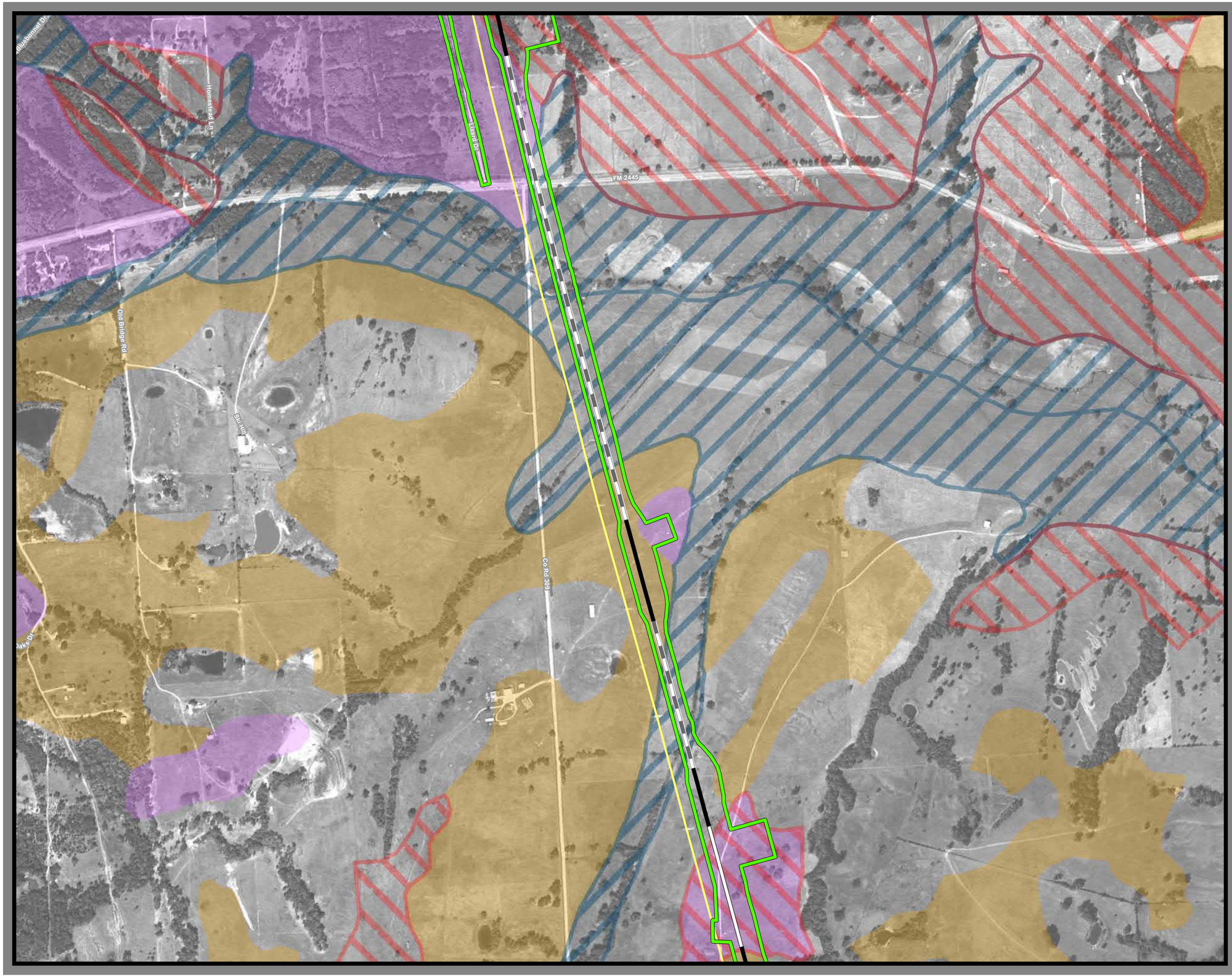
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

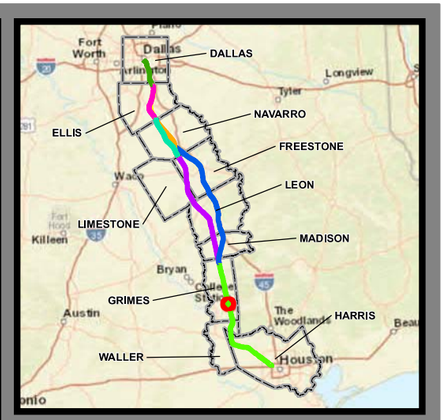
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

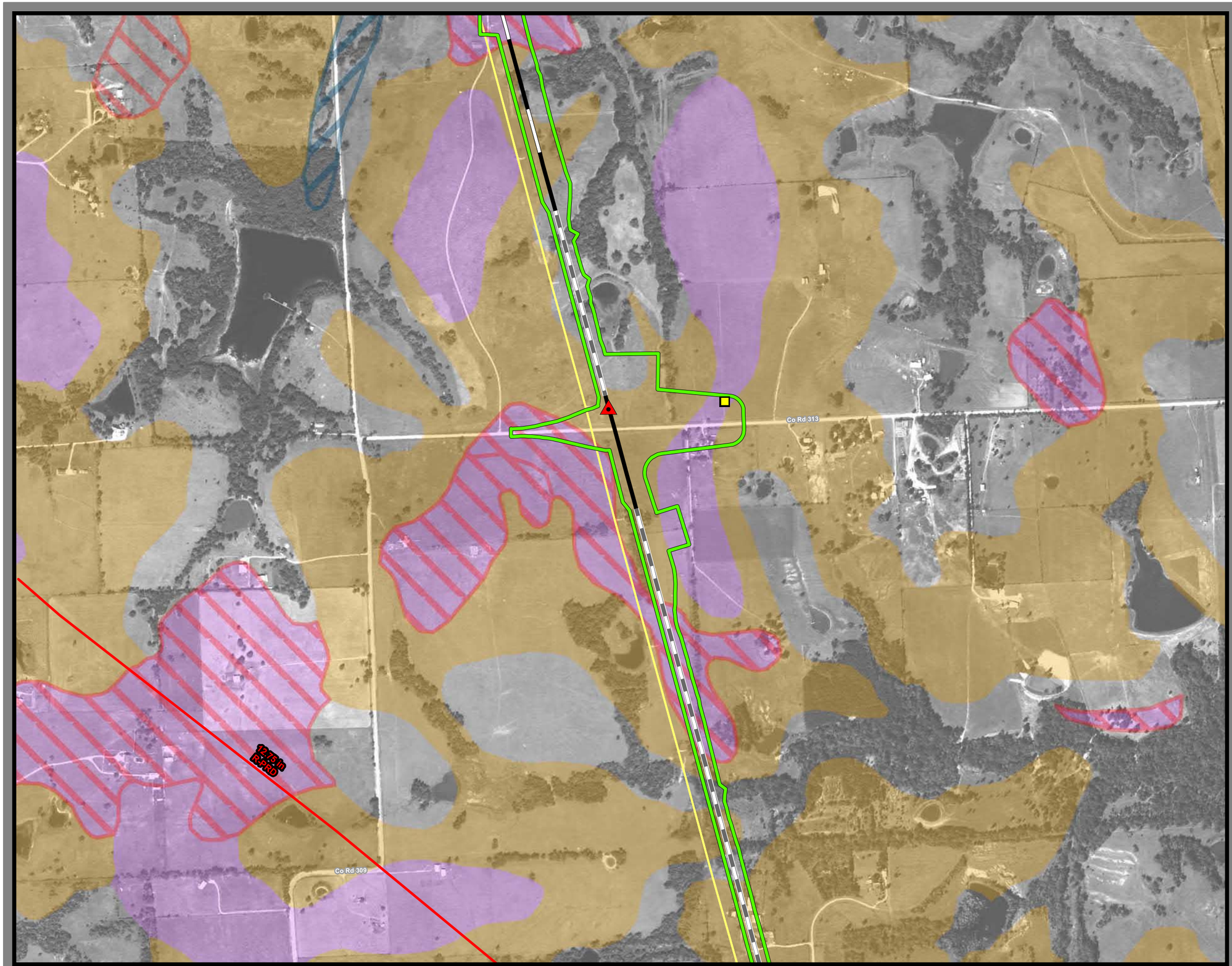
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

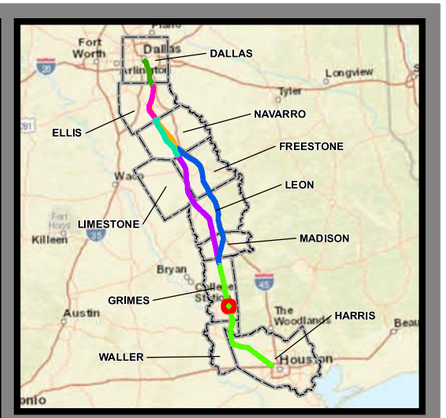
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

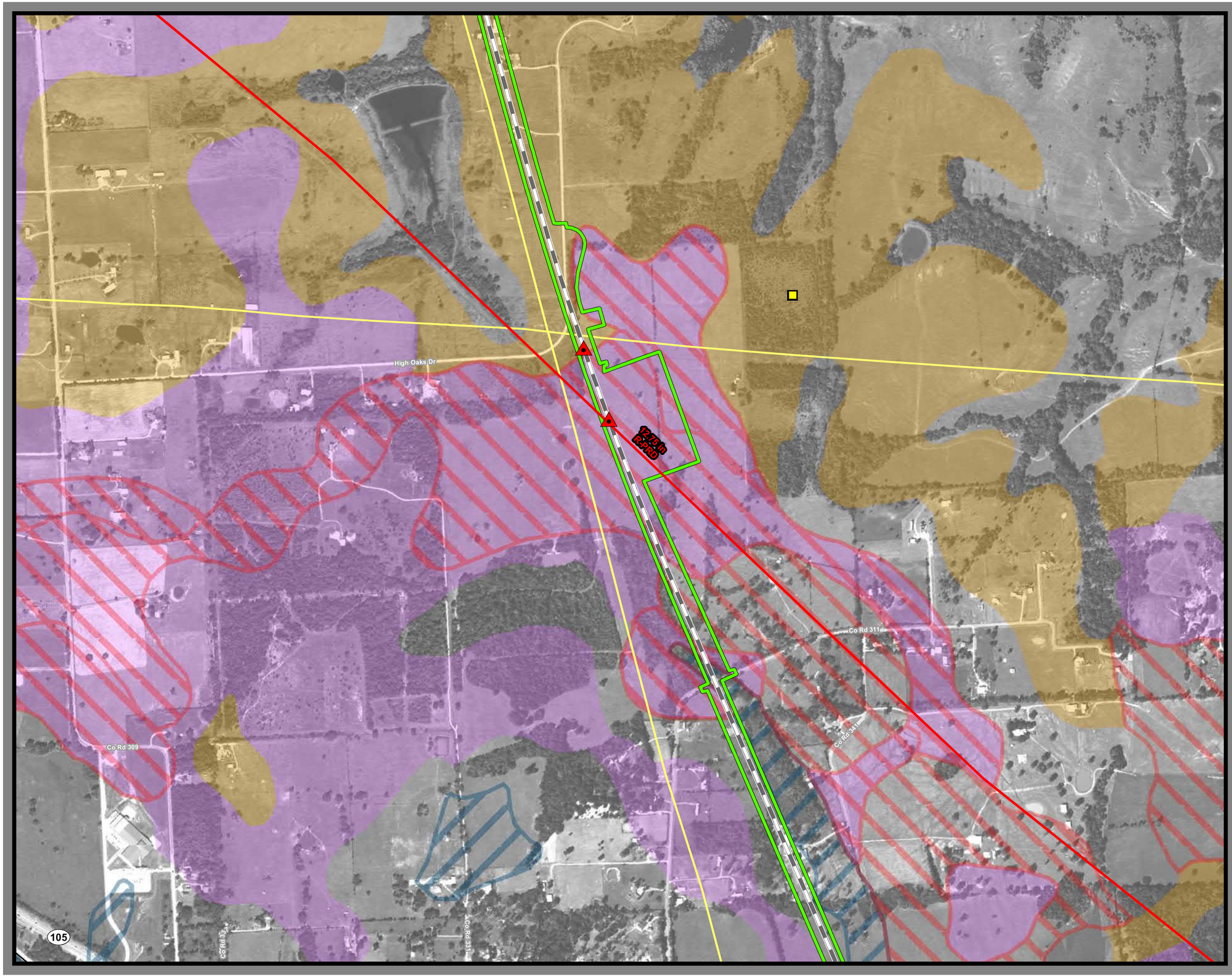
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

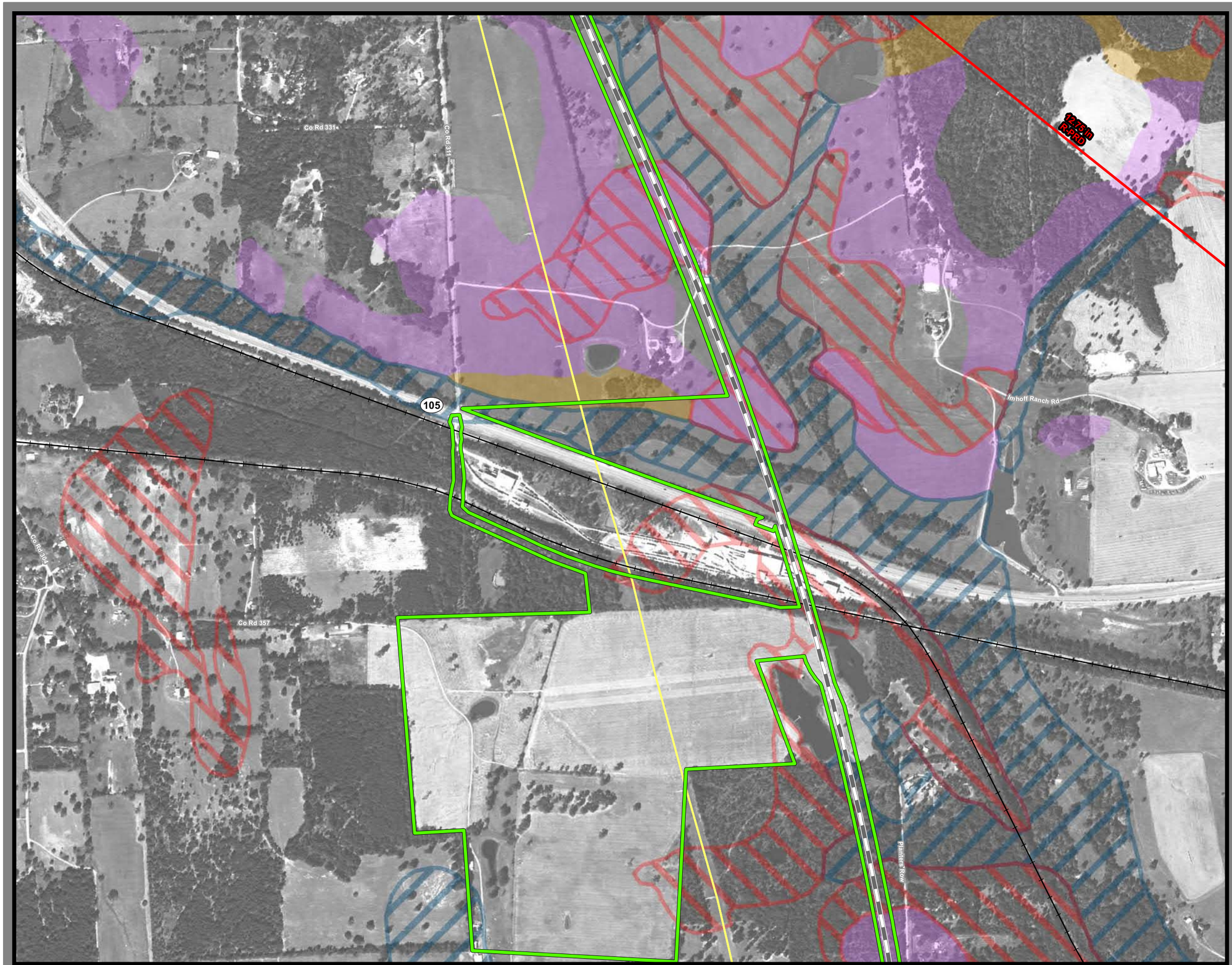
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

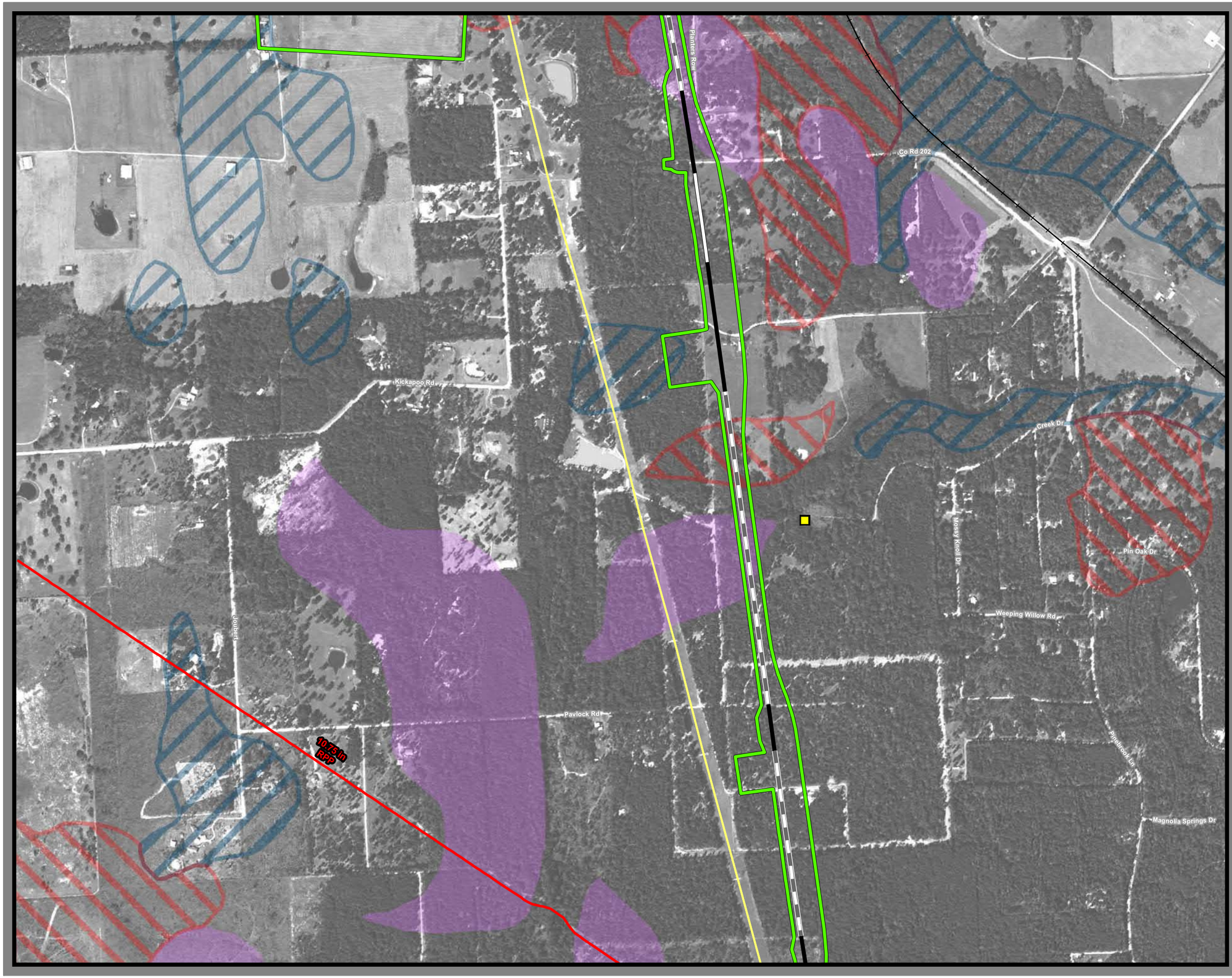
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

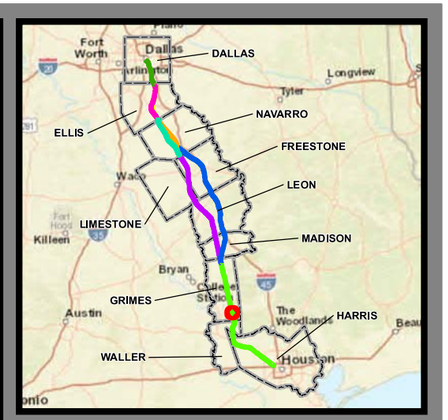
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

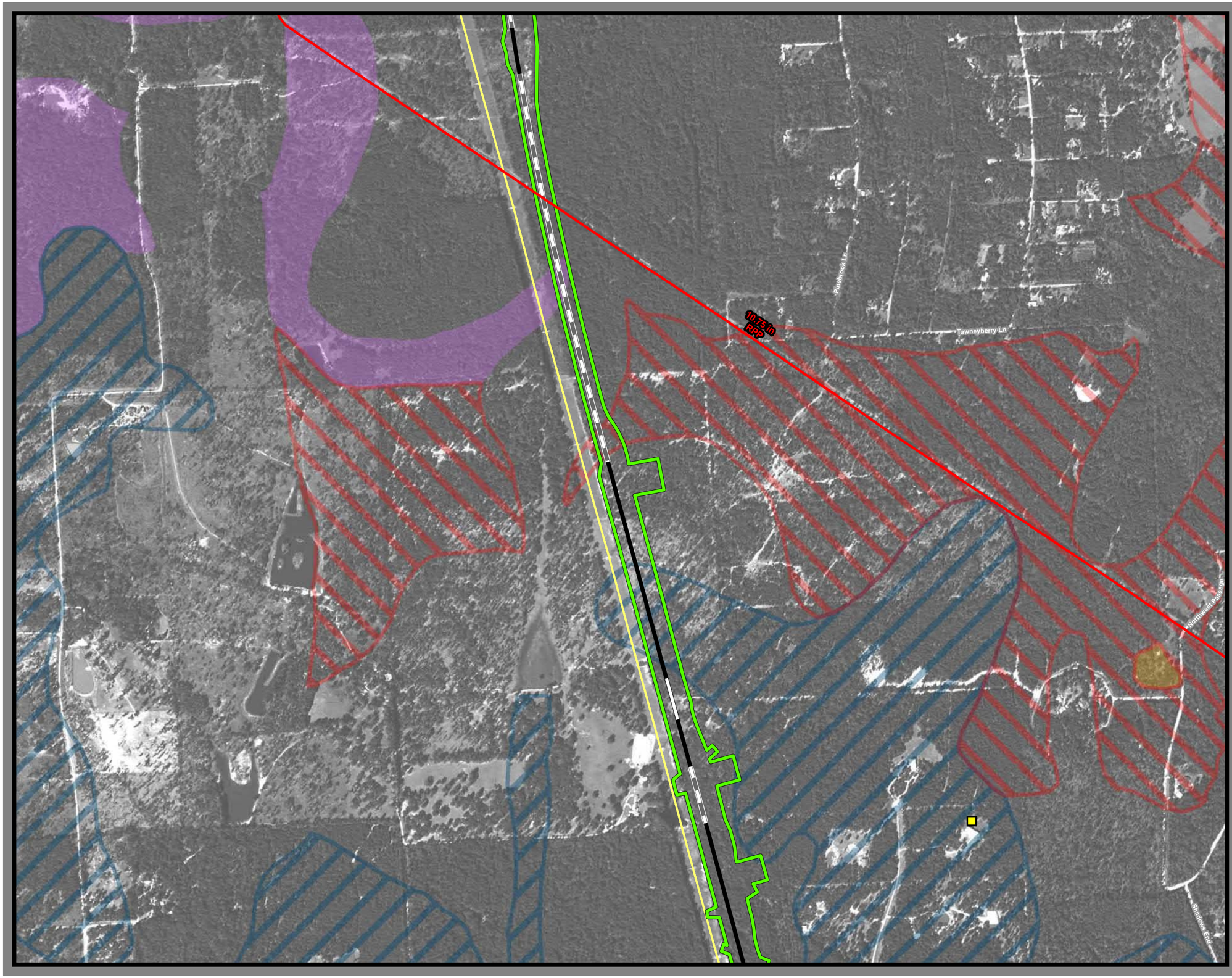
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

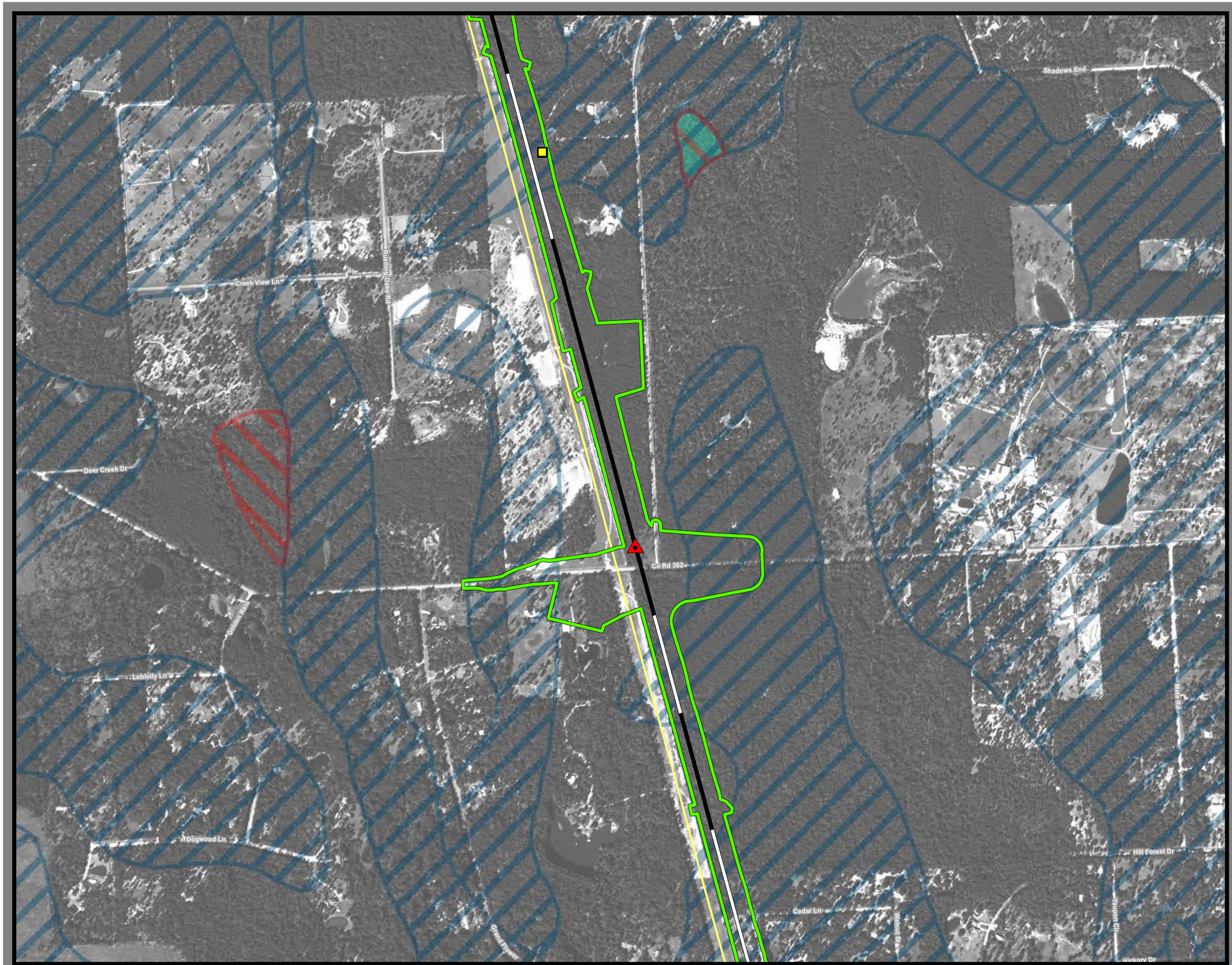
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

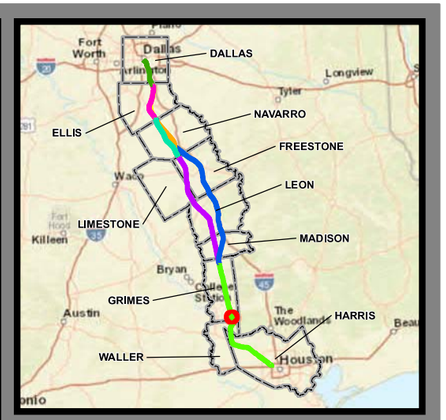
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

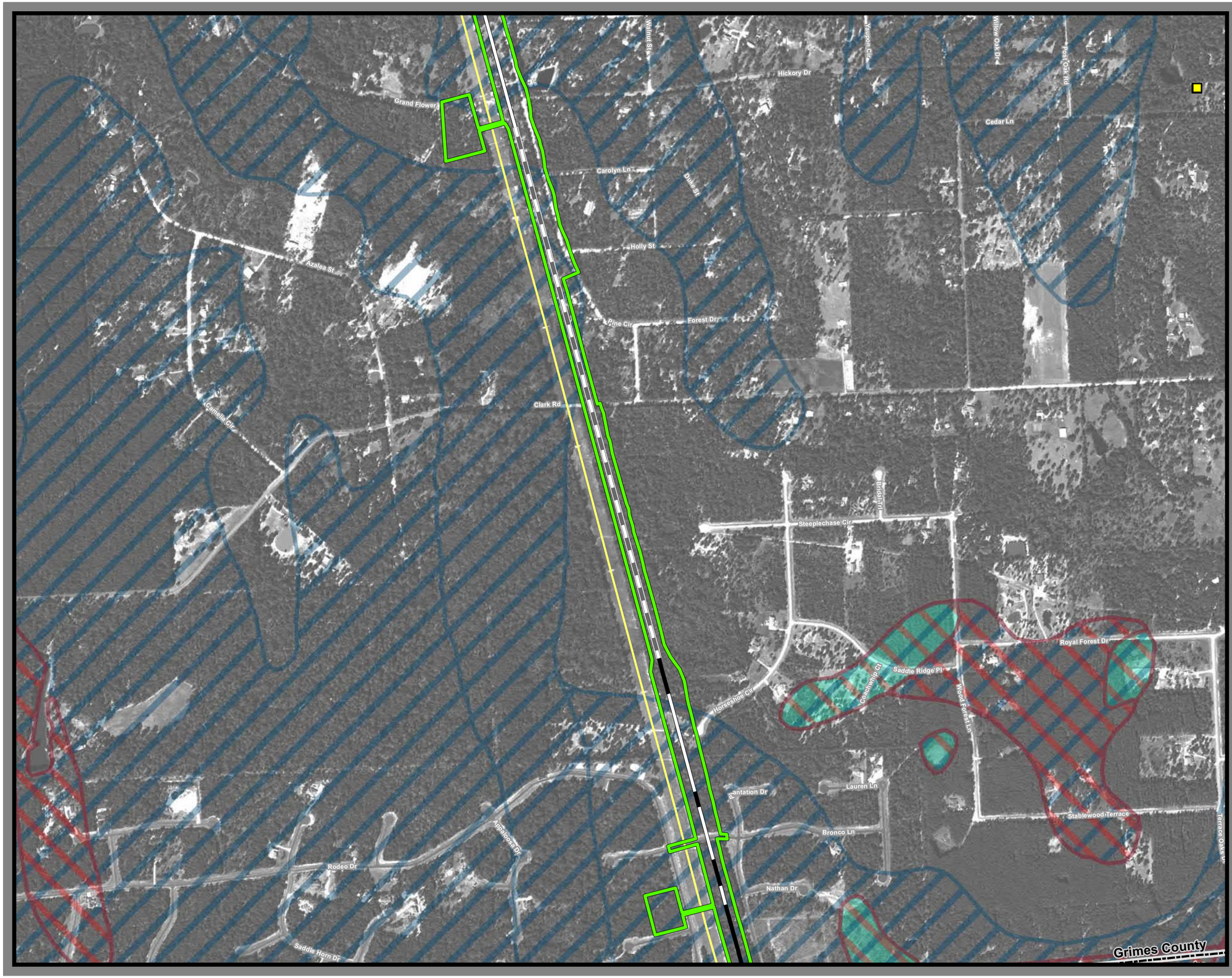
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 5
**Sheet 227 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

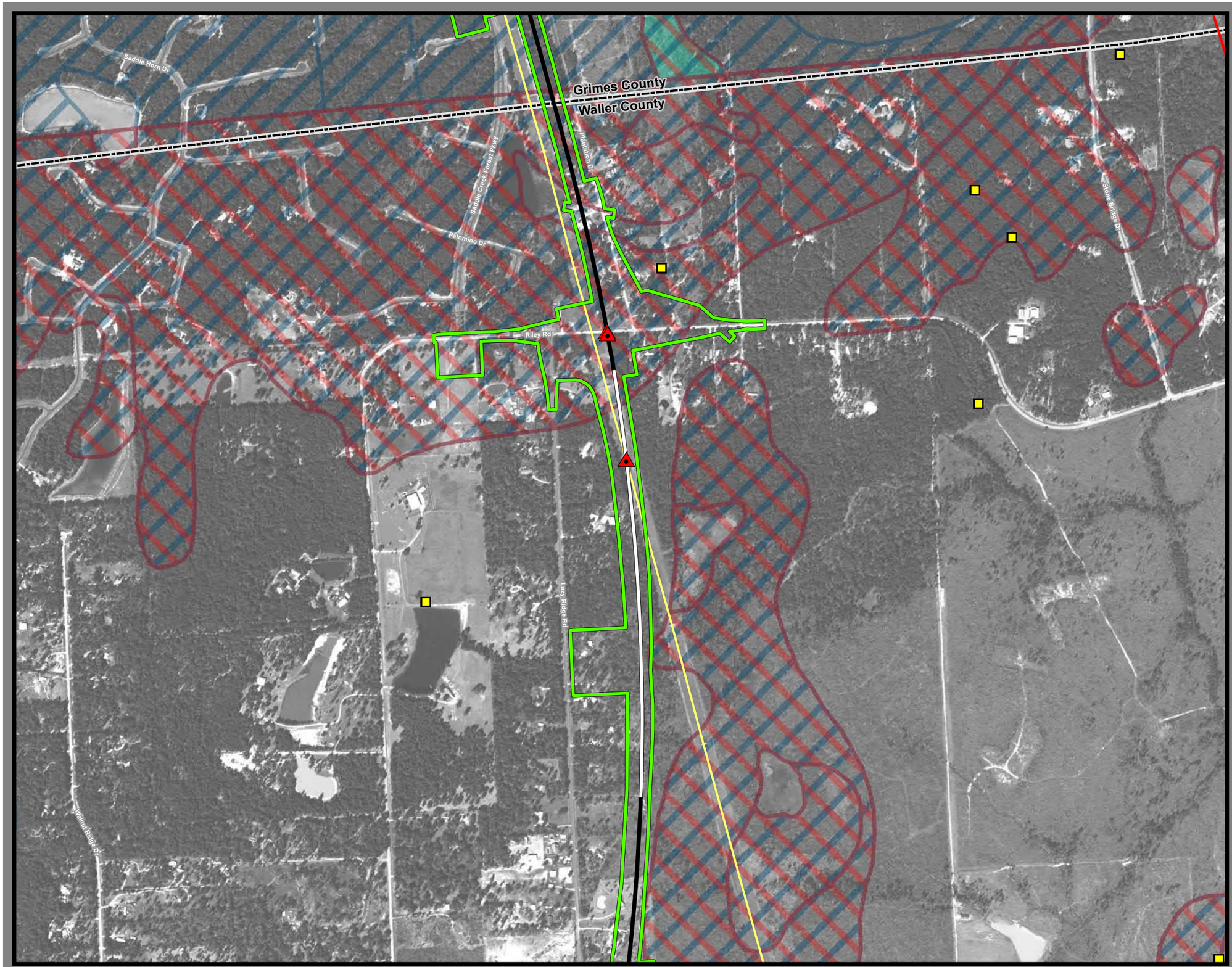
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

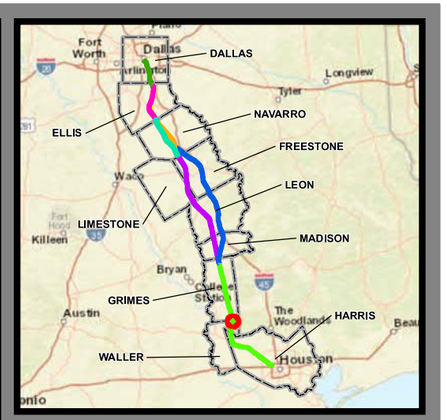
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

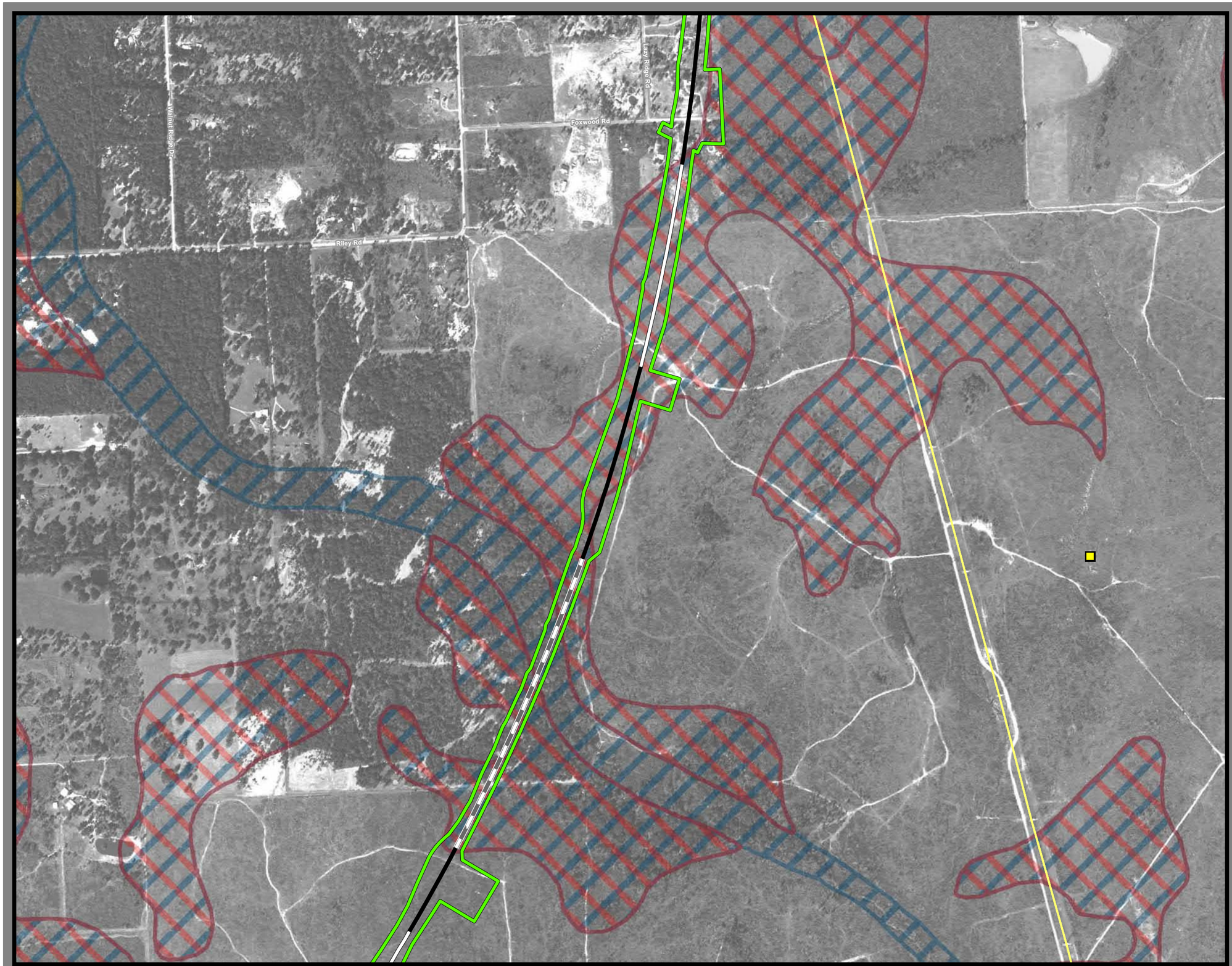
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

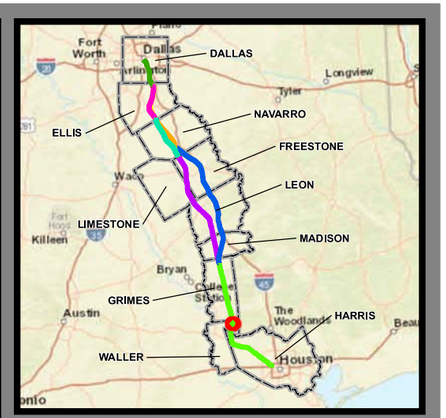
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

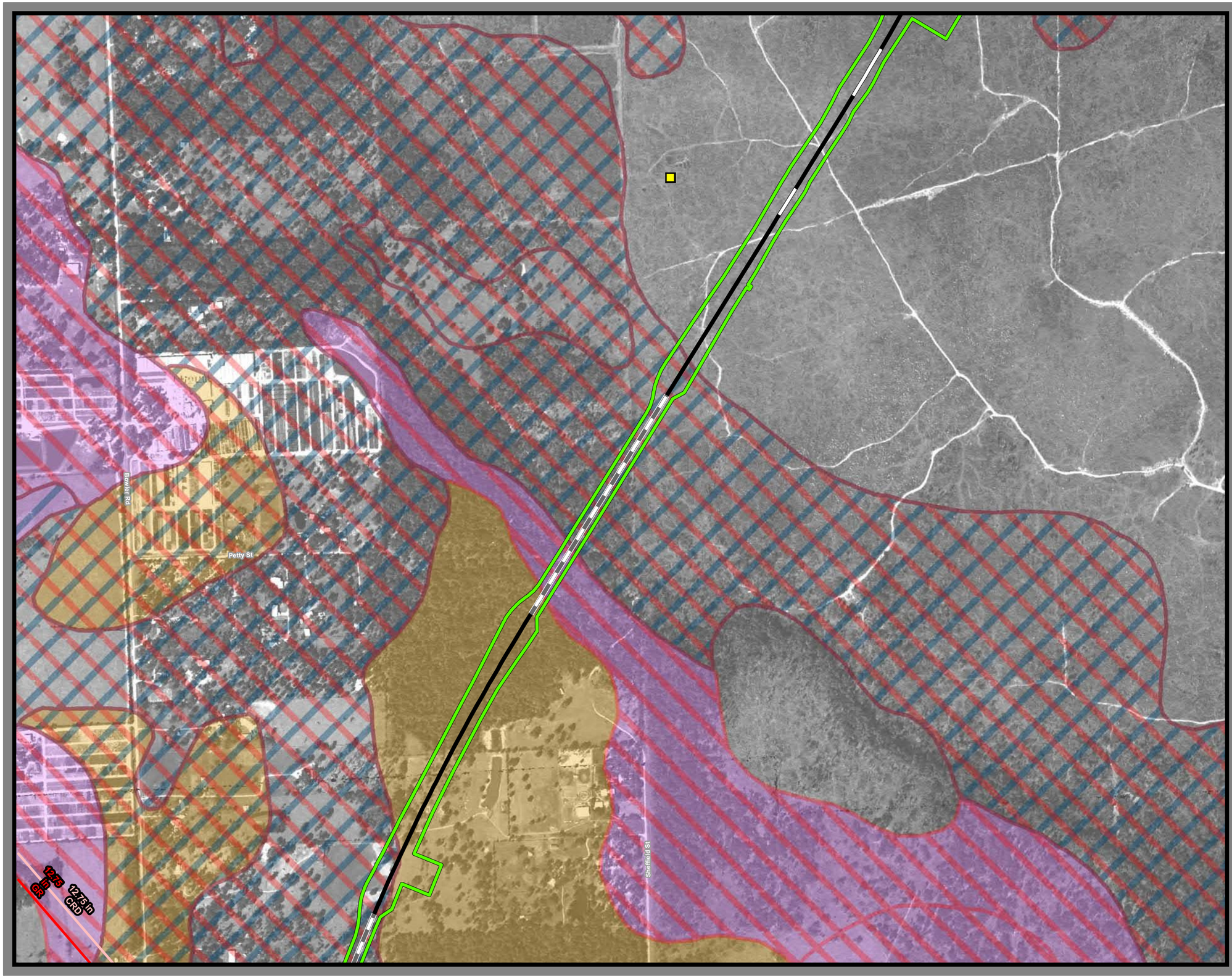
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

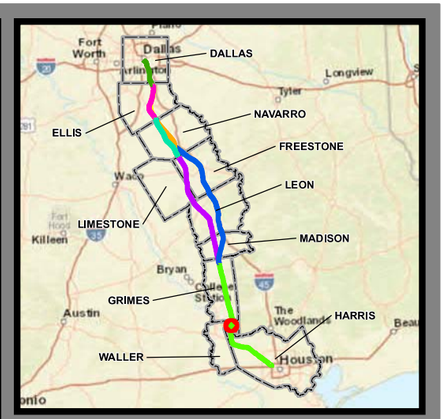
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

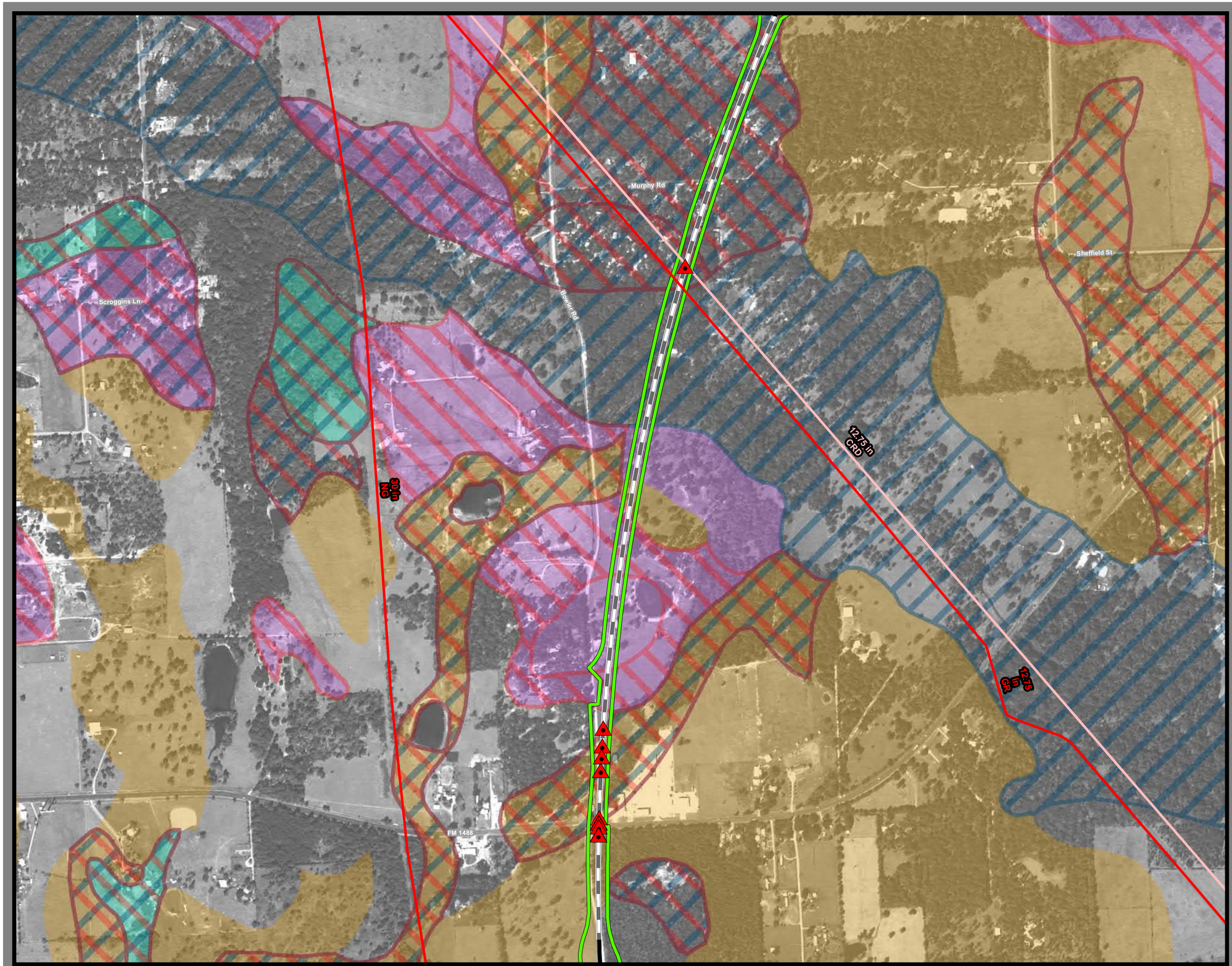
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

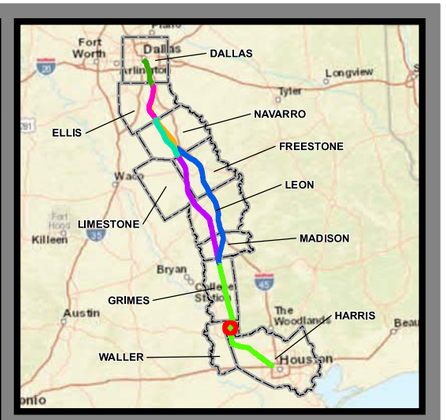
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

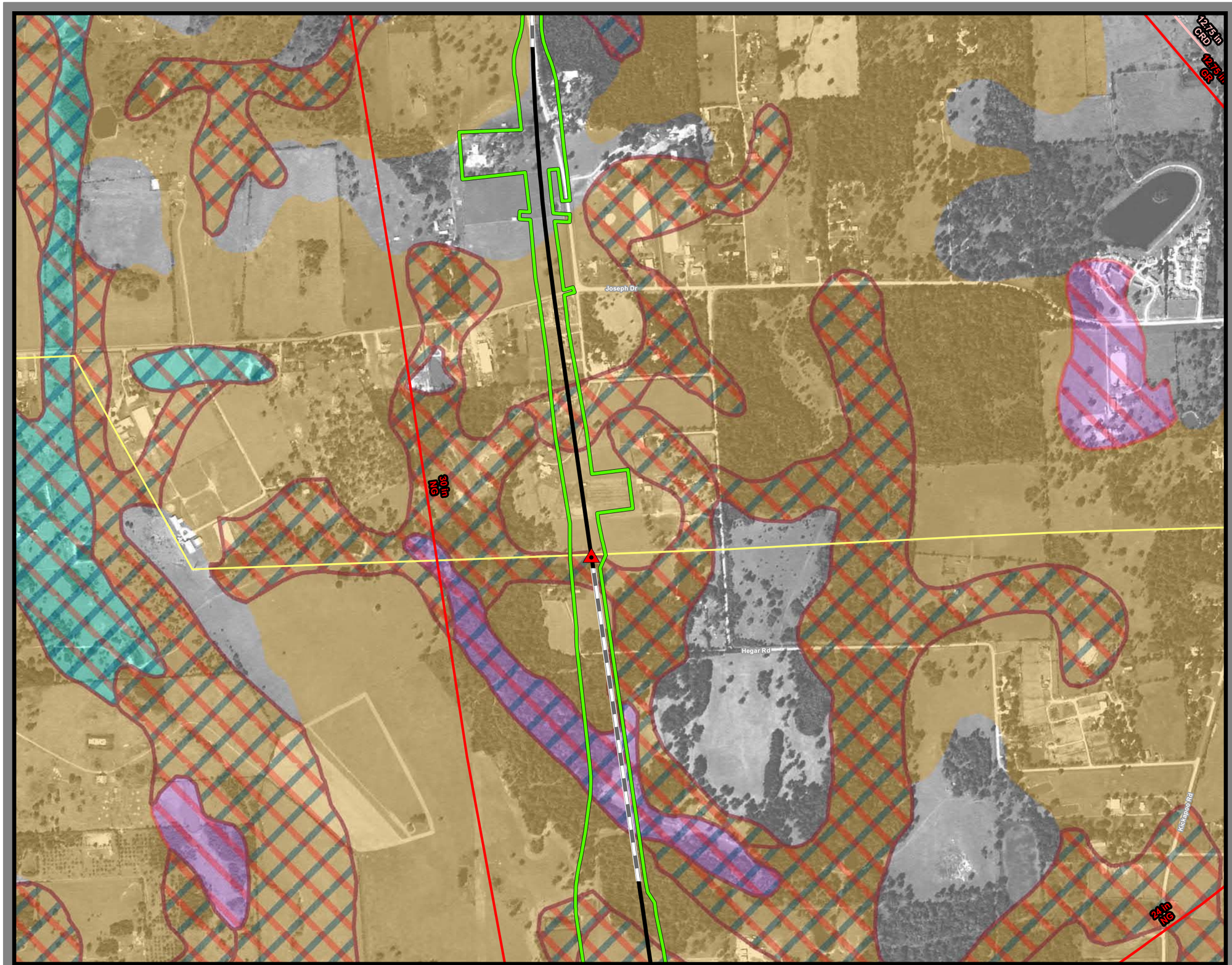
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

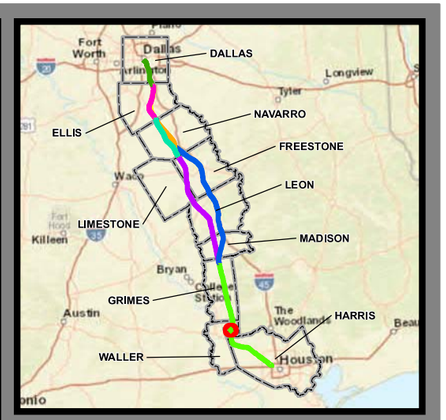
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

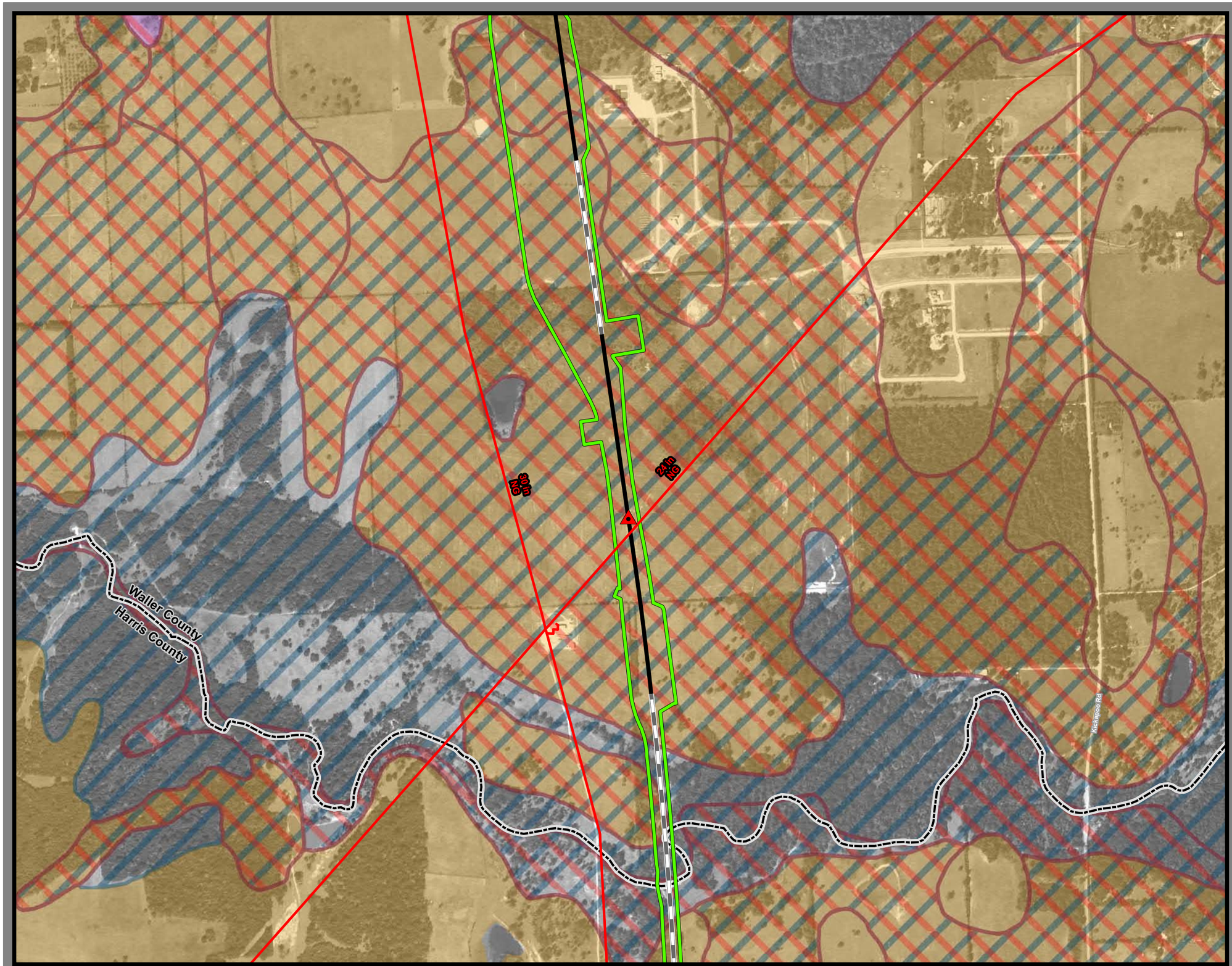
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

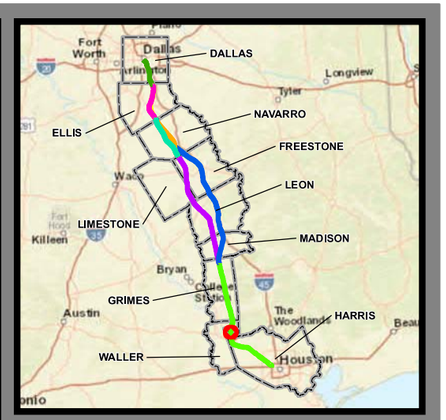
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

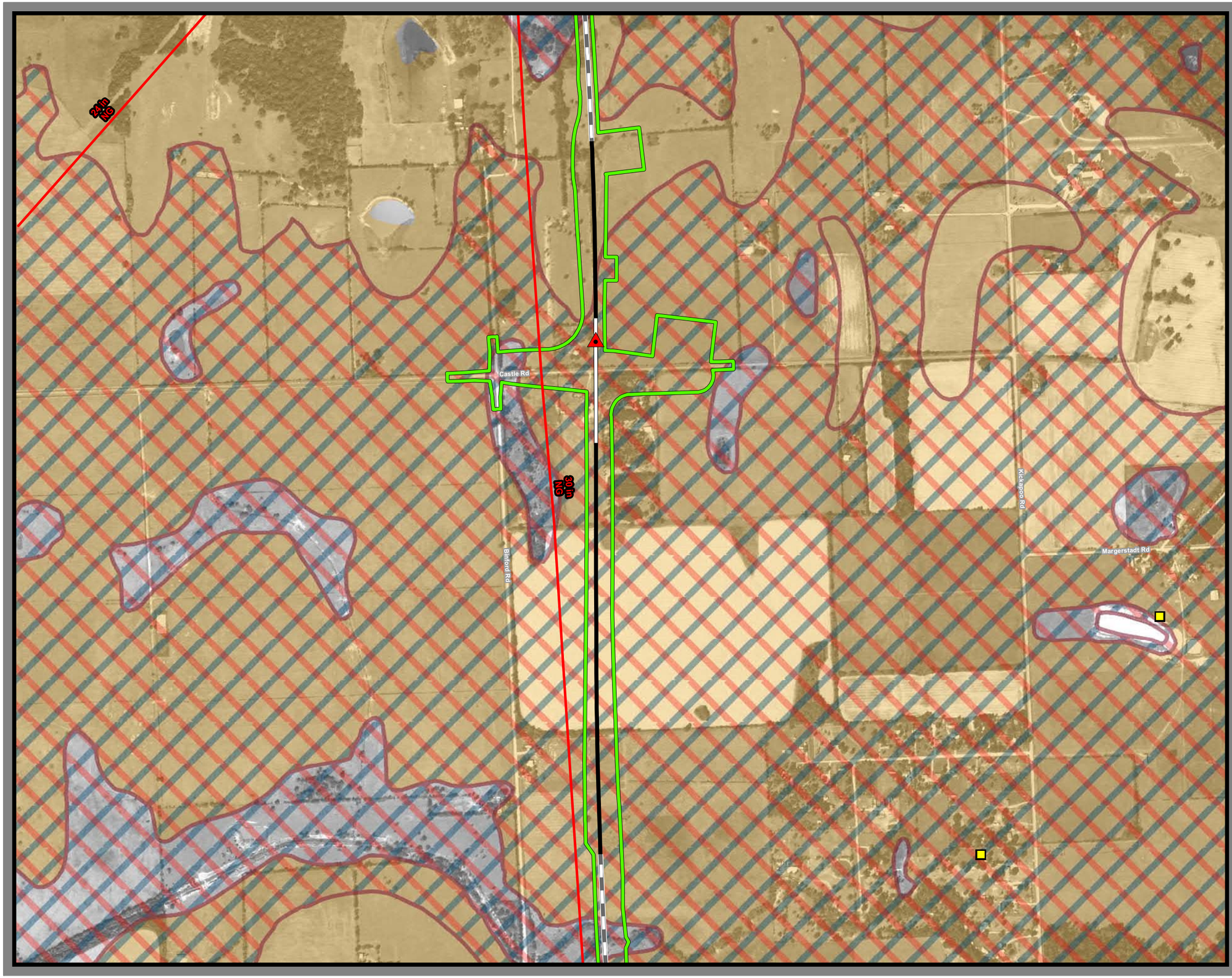
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

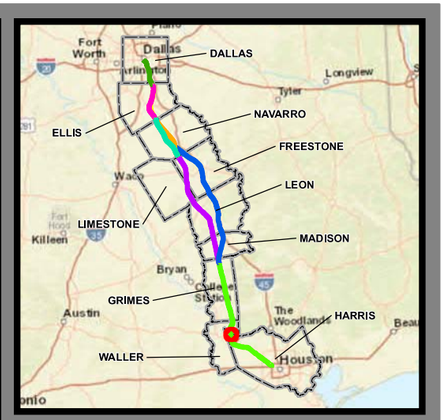
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

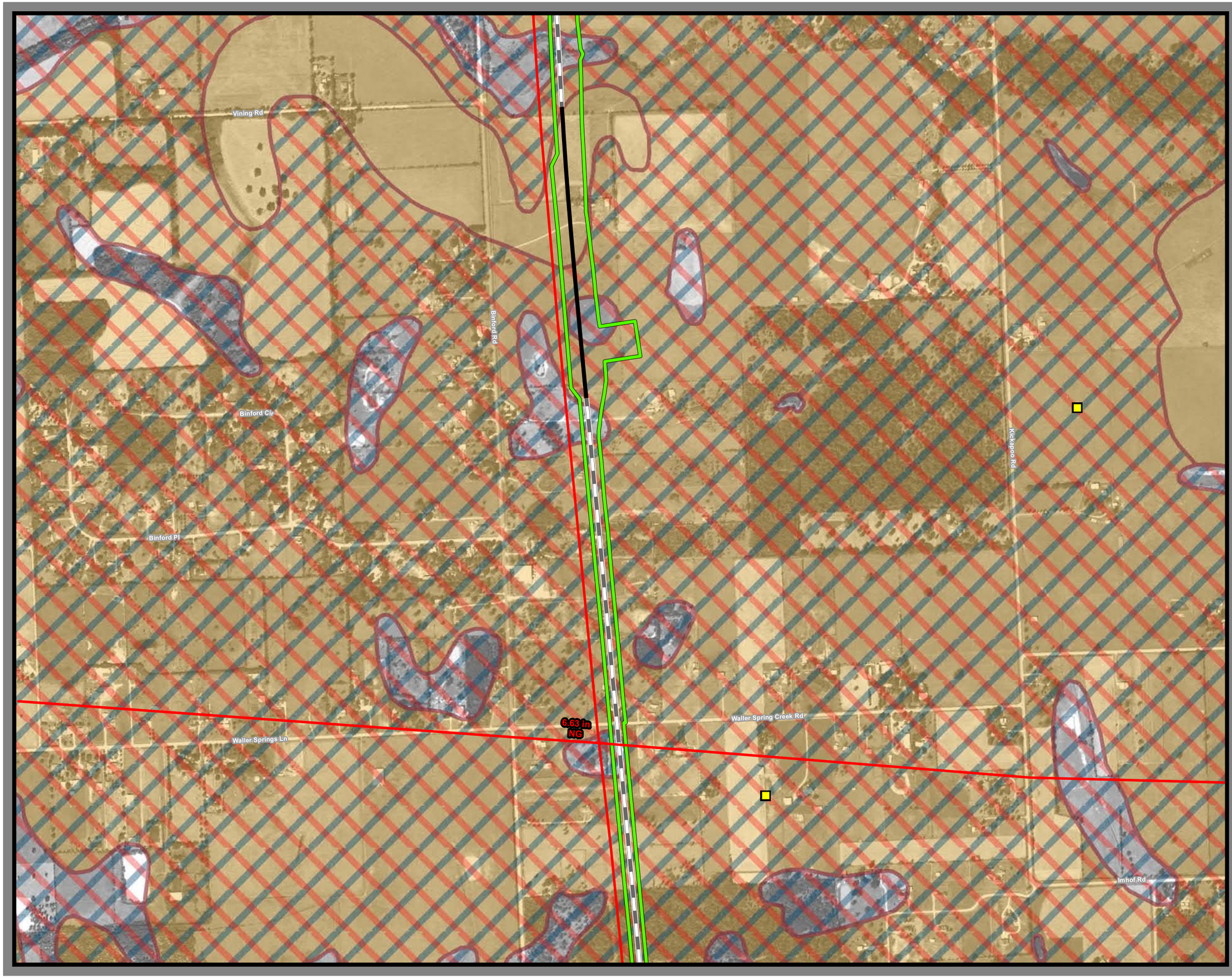
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

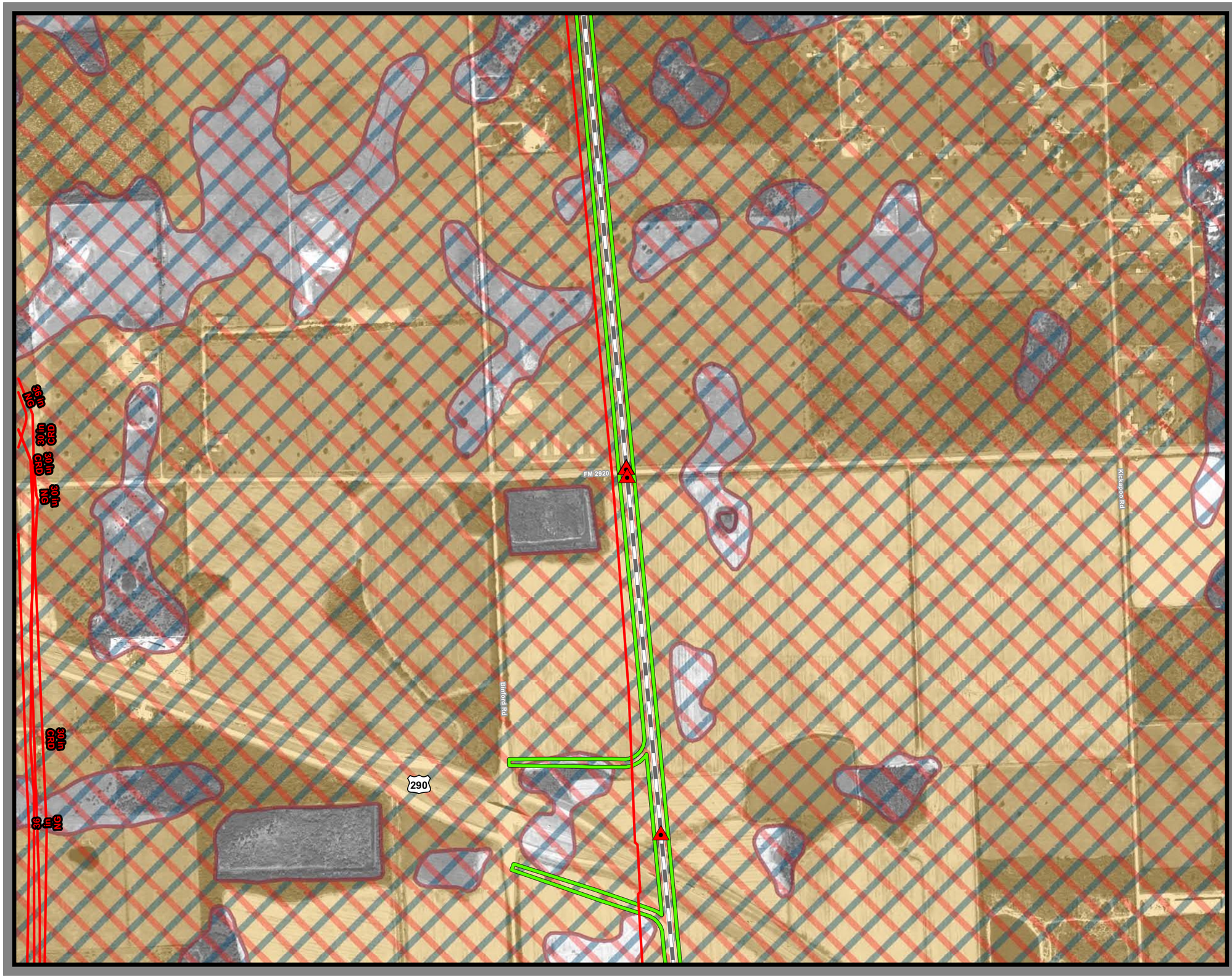
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

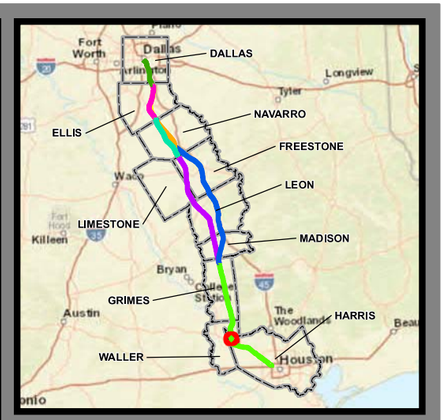
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

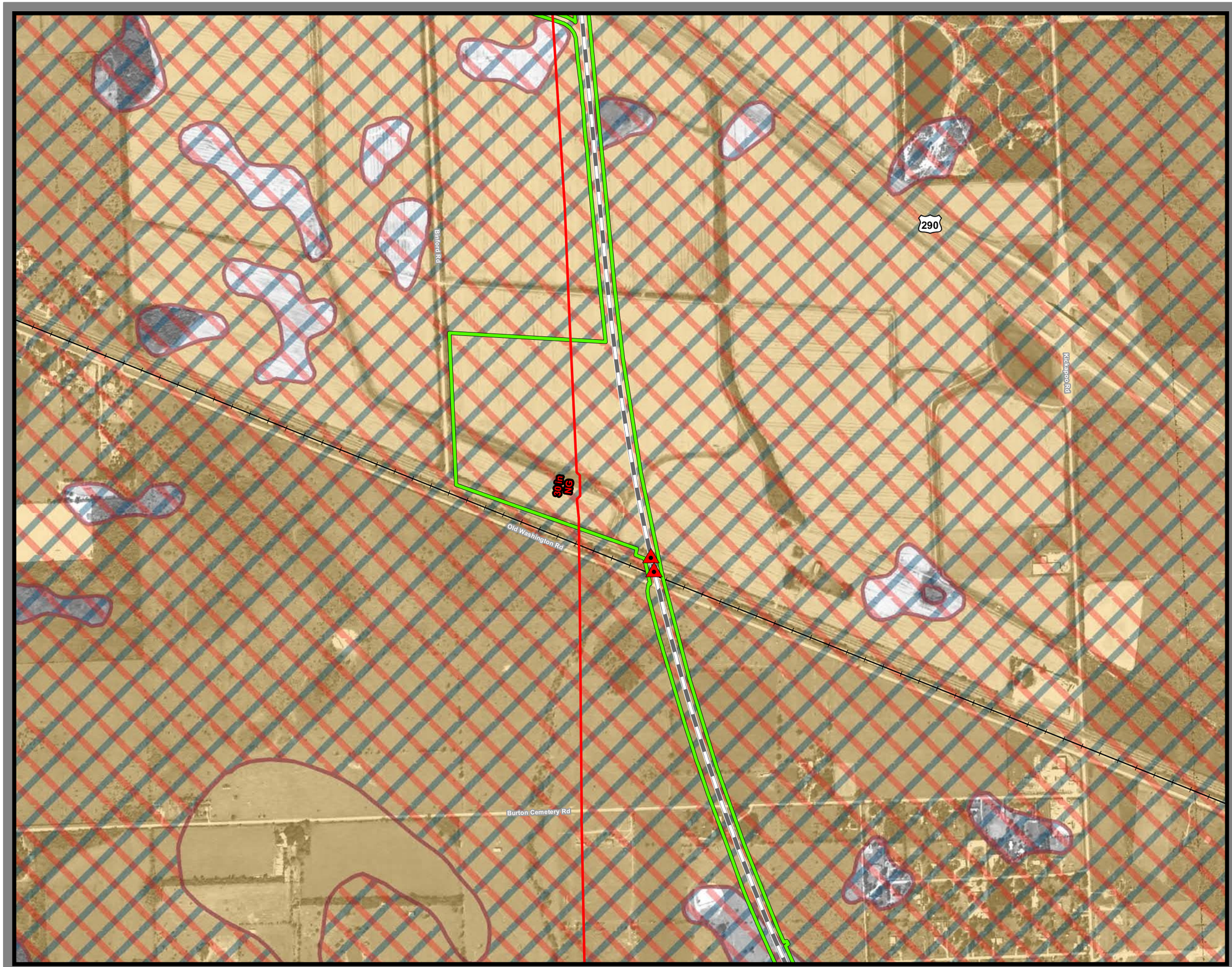
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

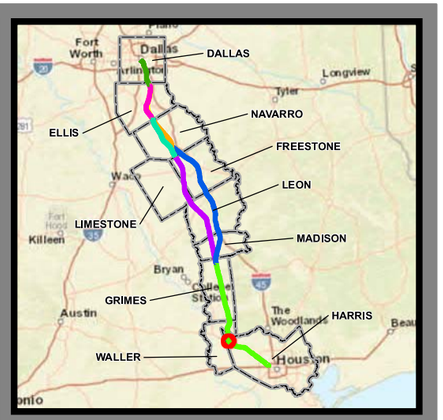
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

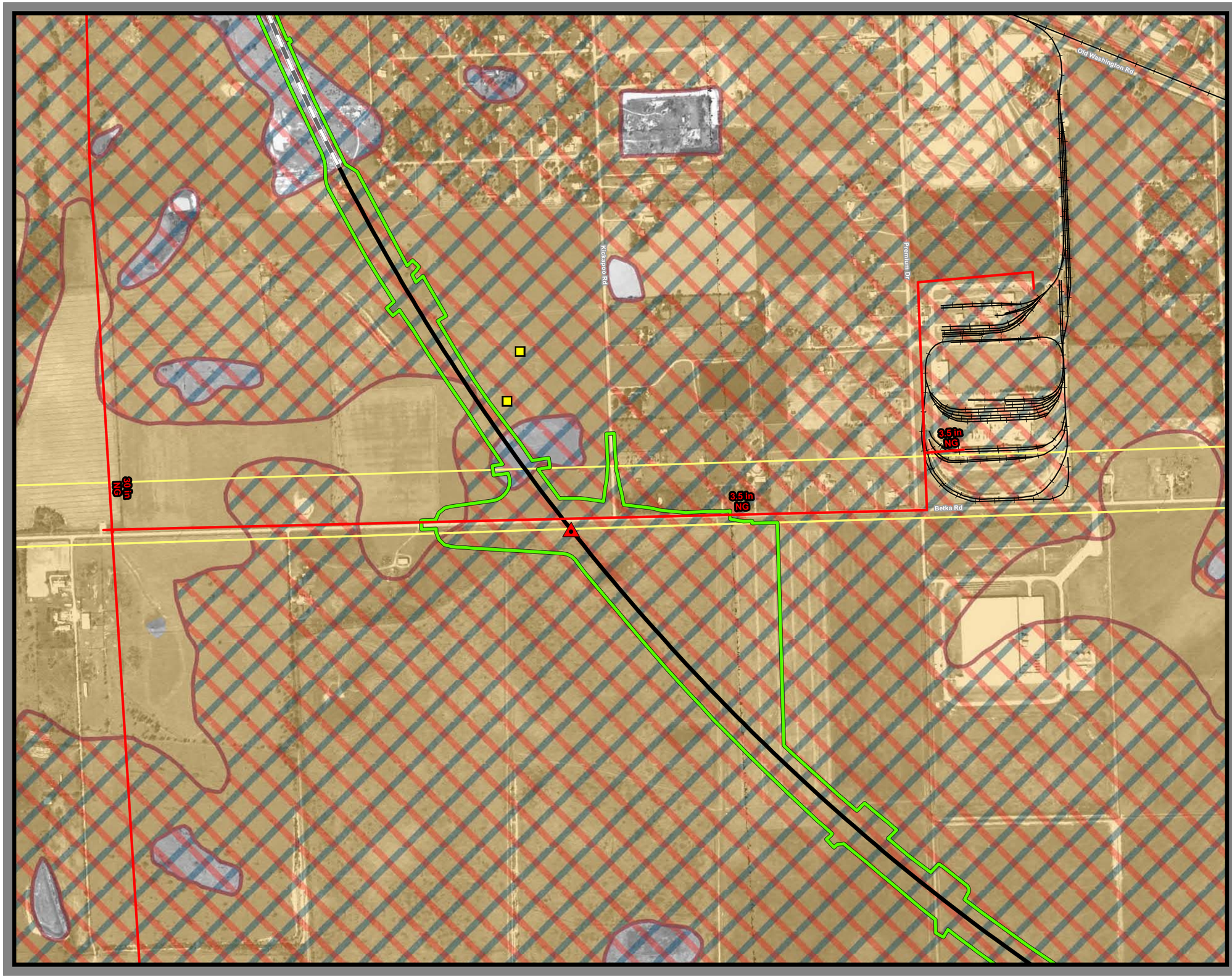
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

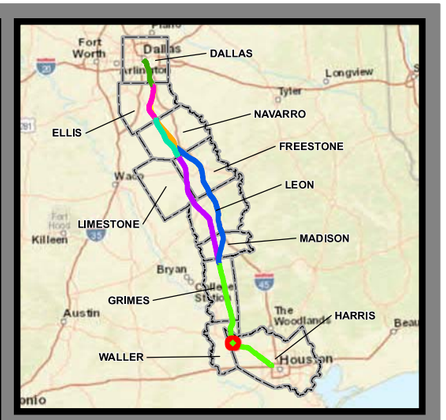
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

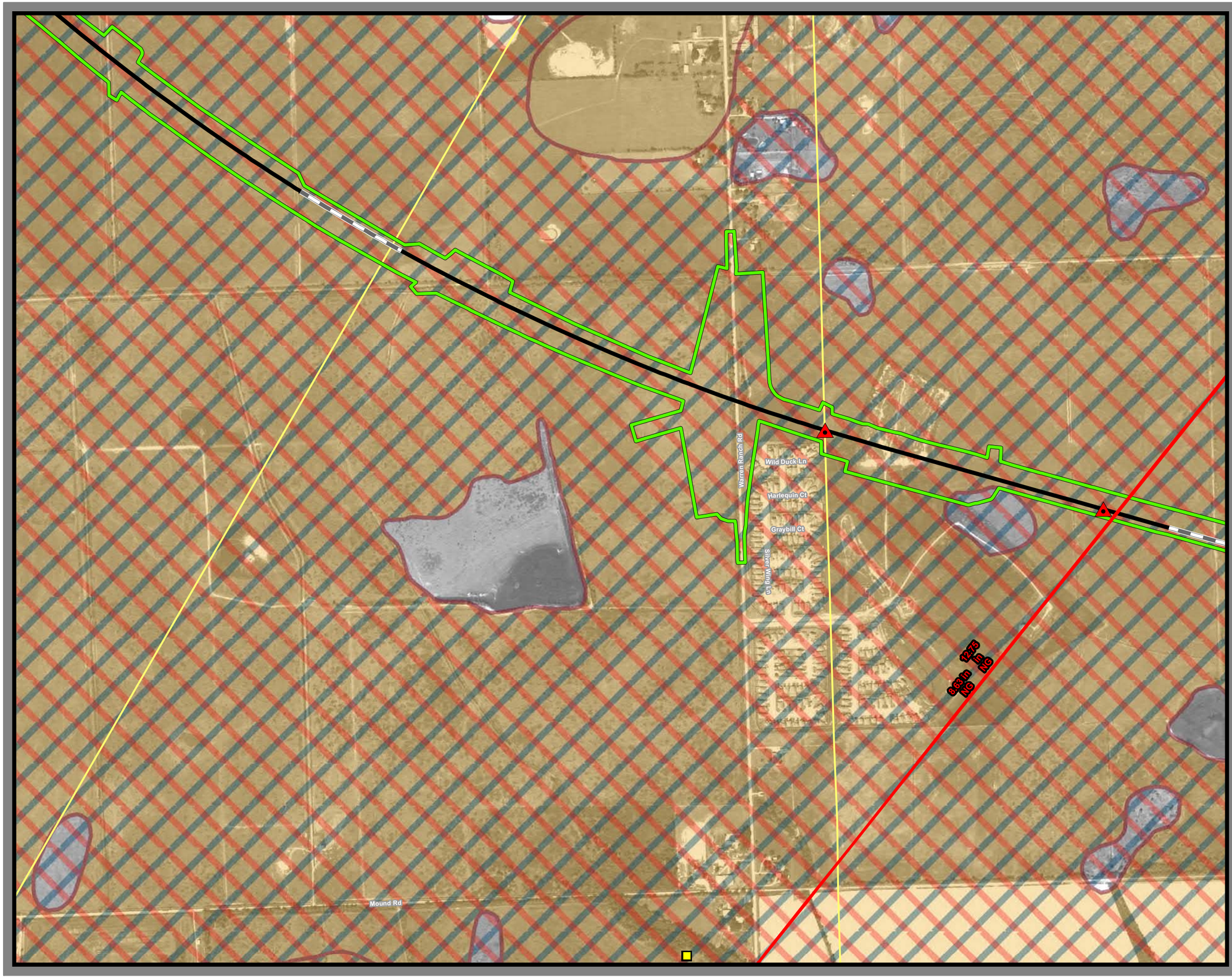
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

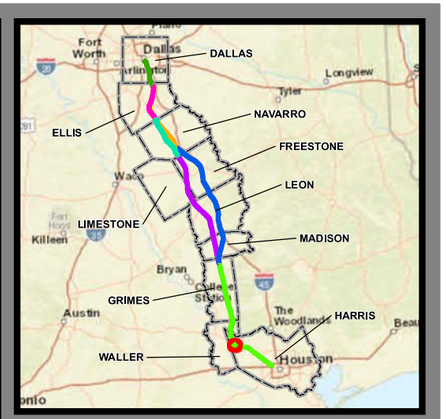
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

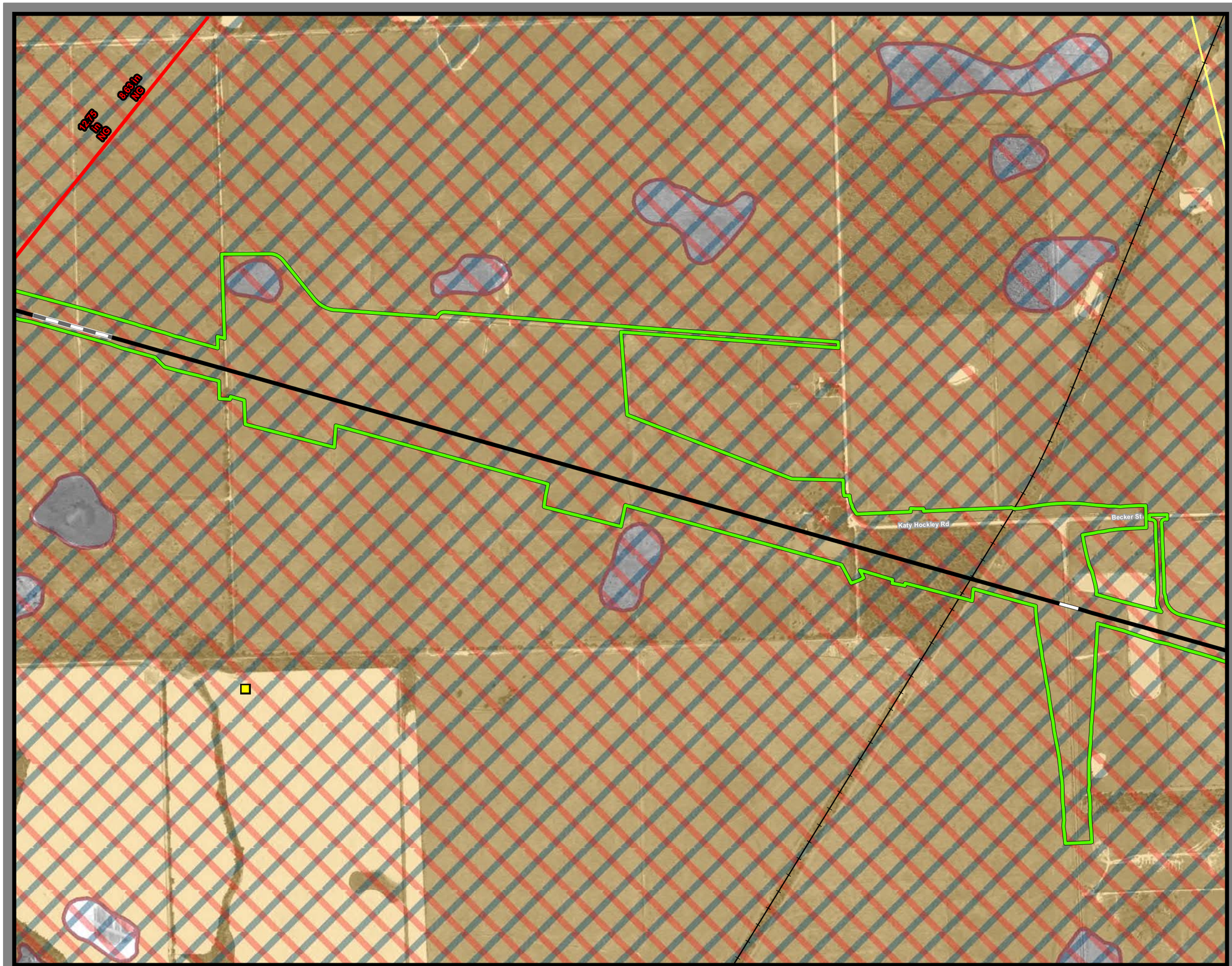
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

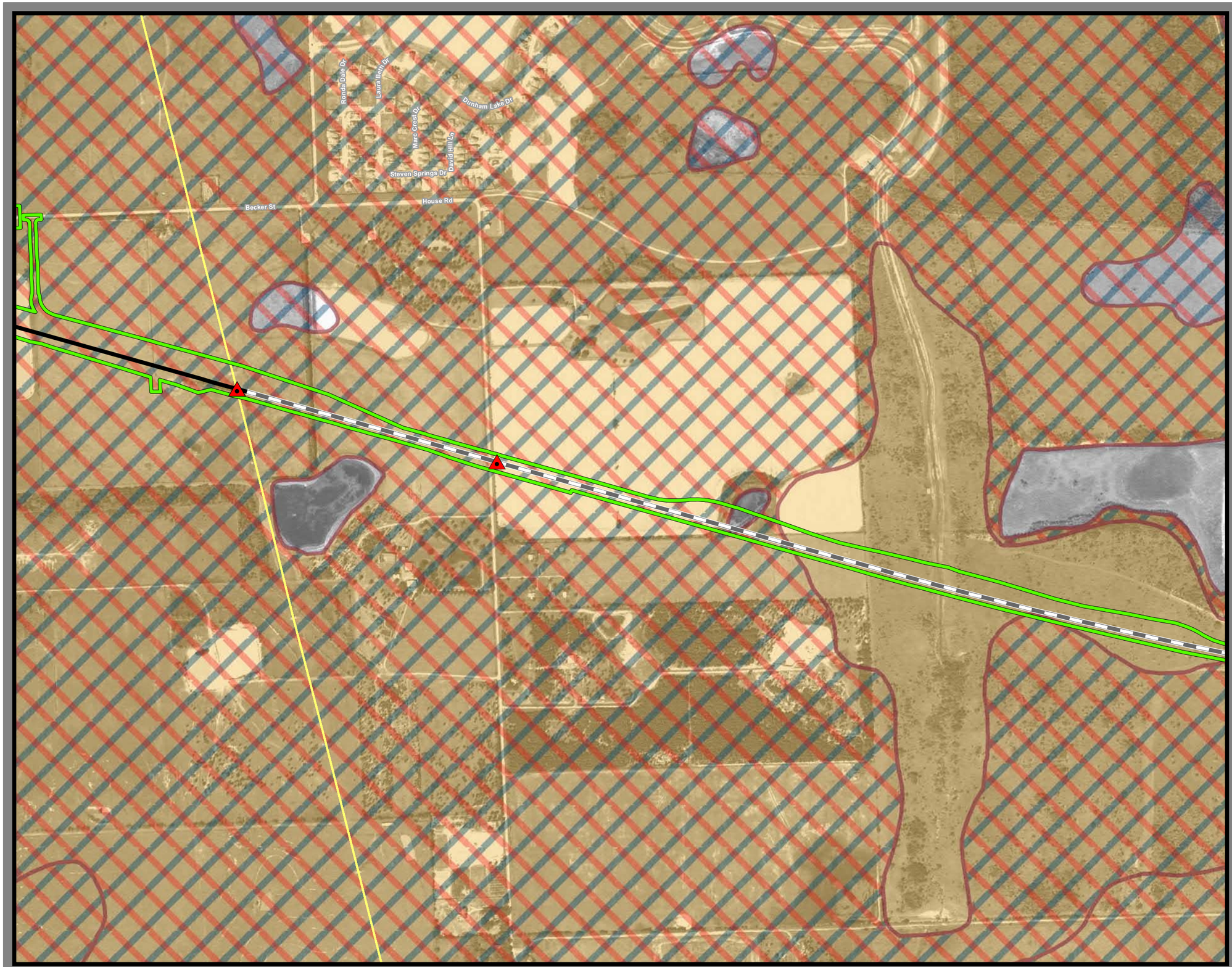
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

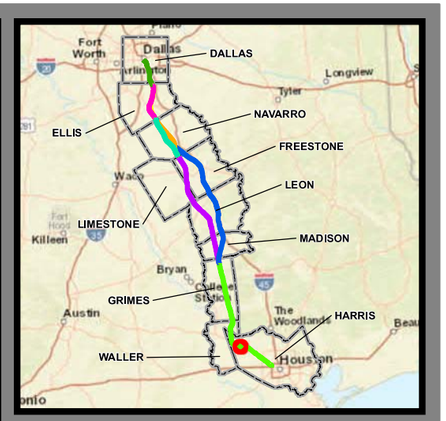
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

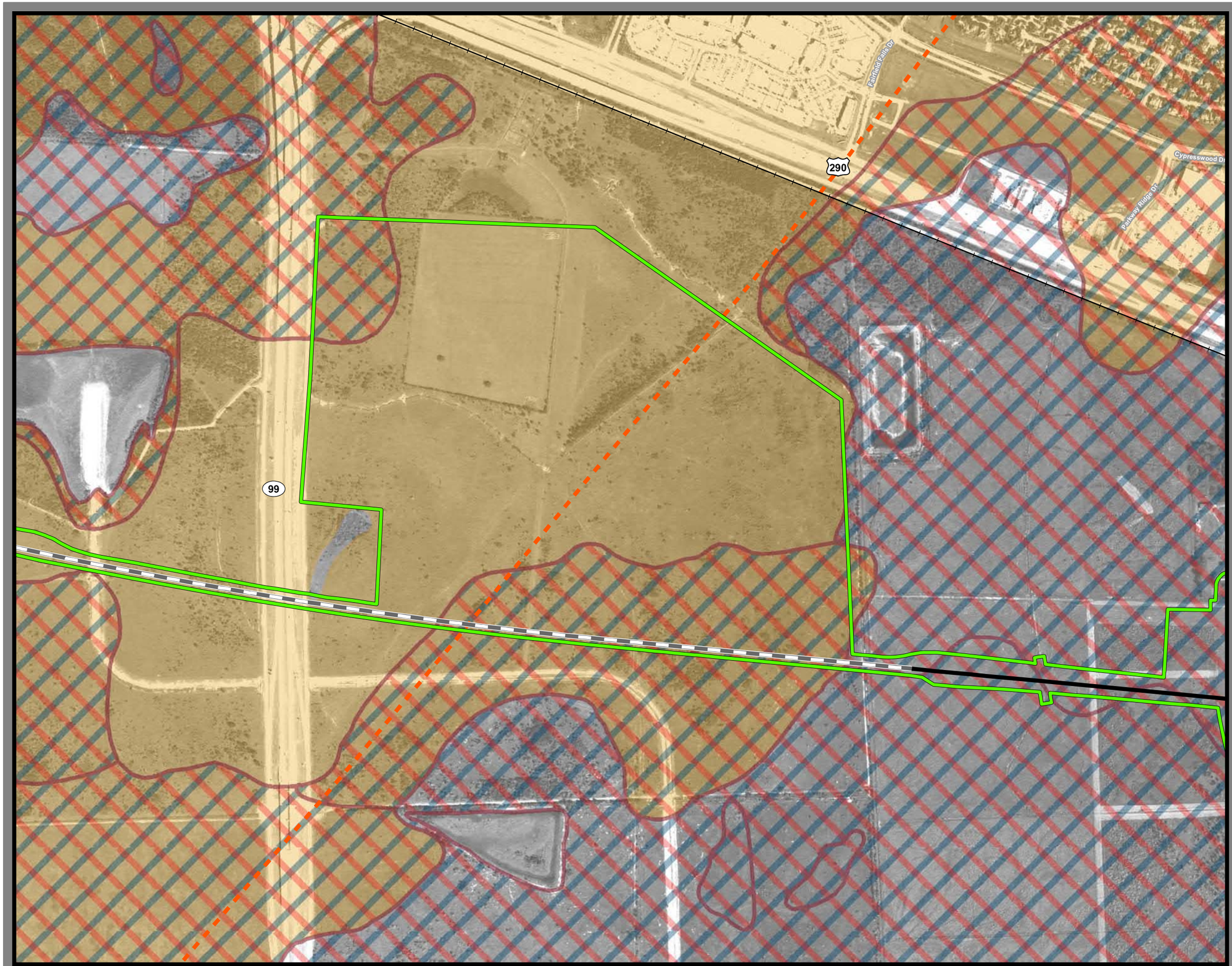
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet

0 200 400 800 Feet

N W E S





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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

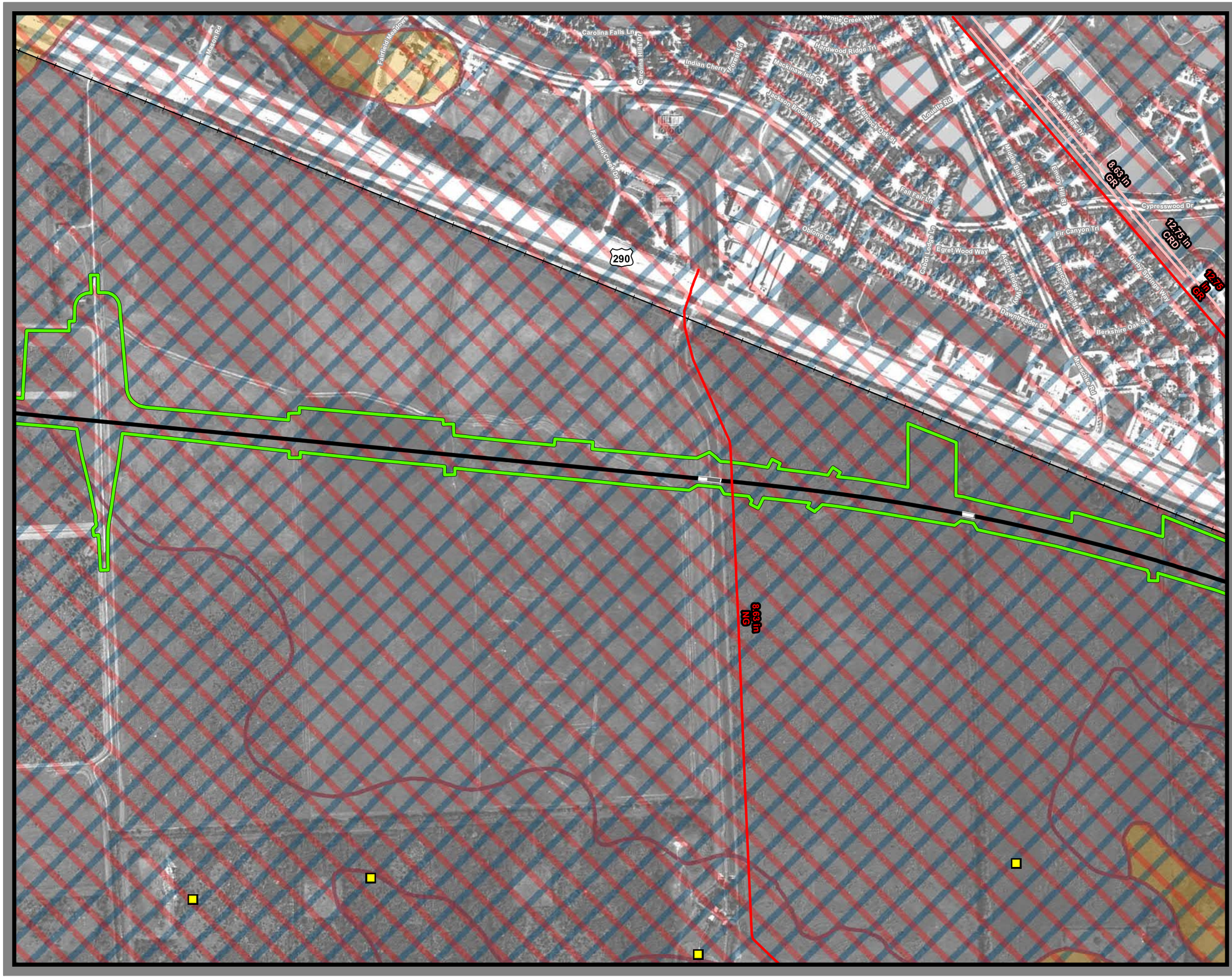
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

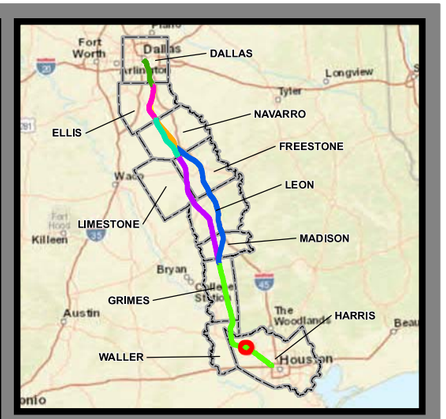
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

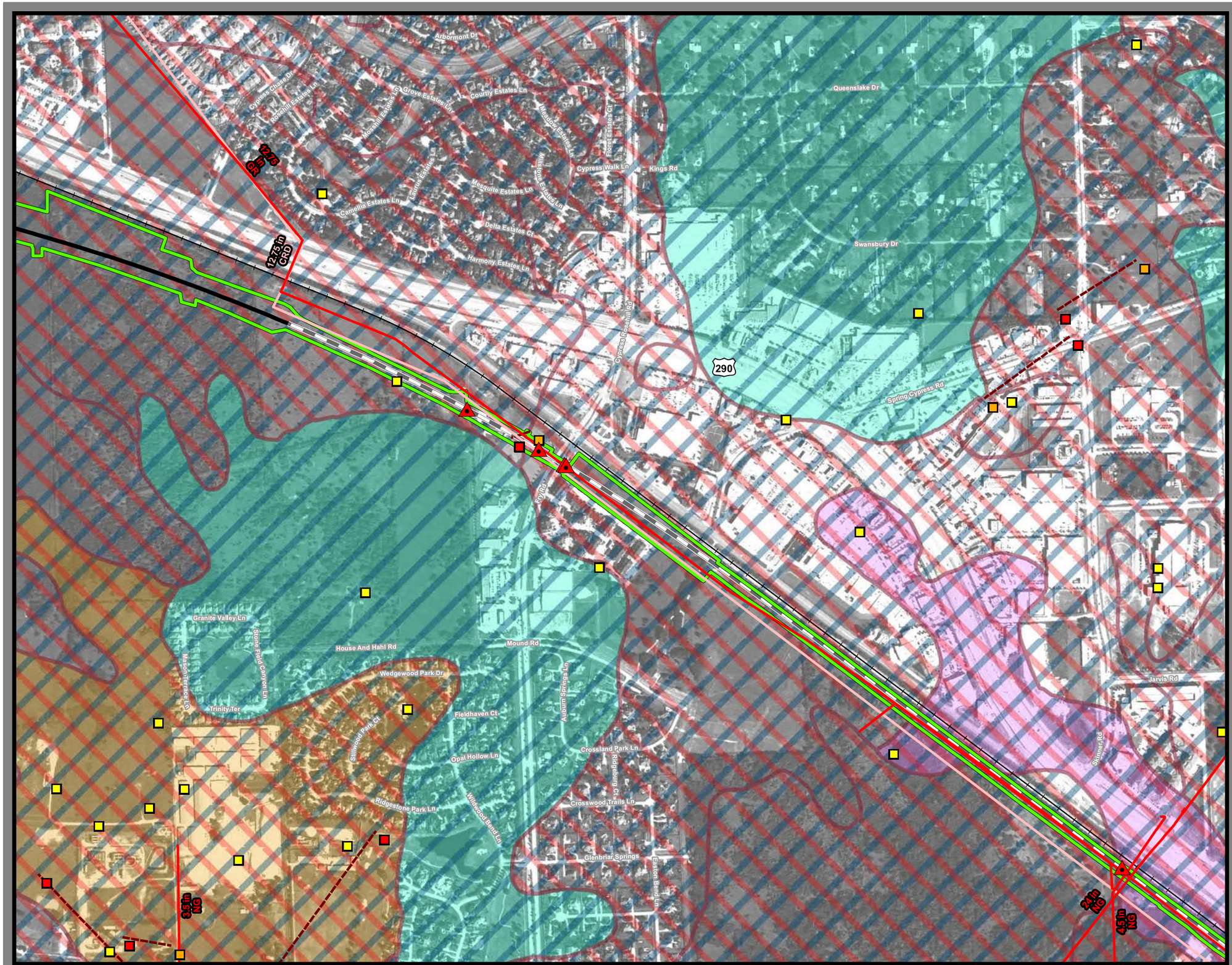
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

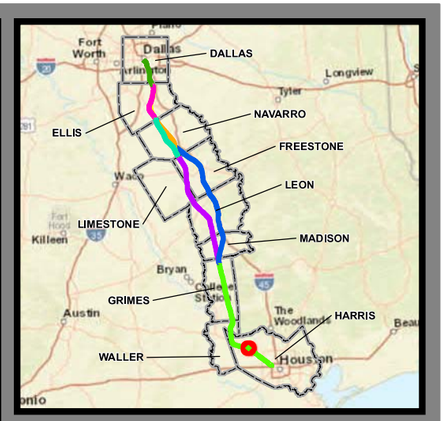
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

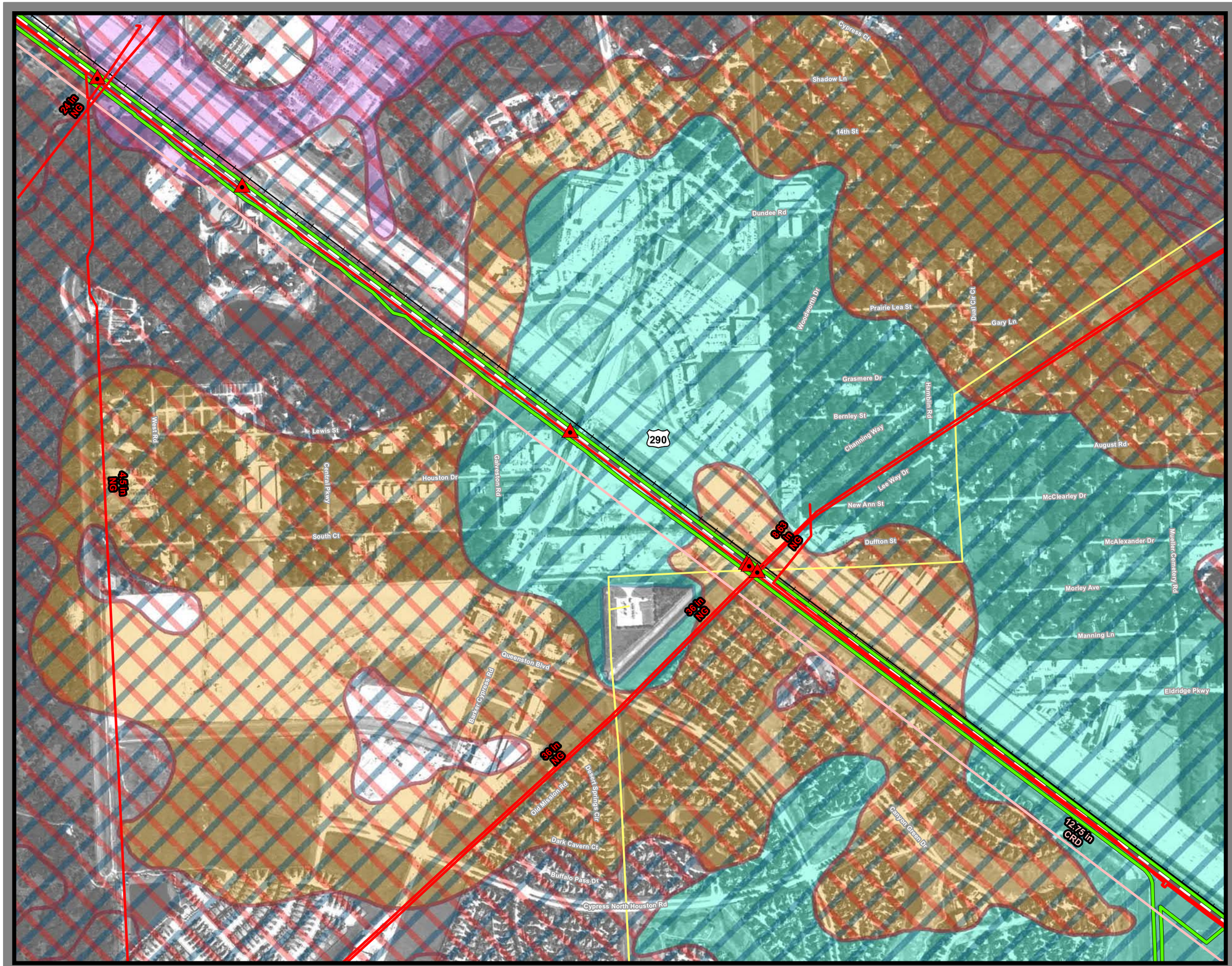
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

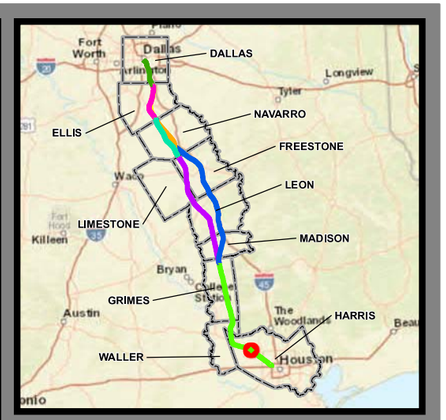
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

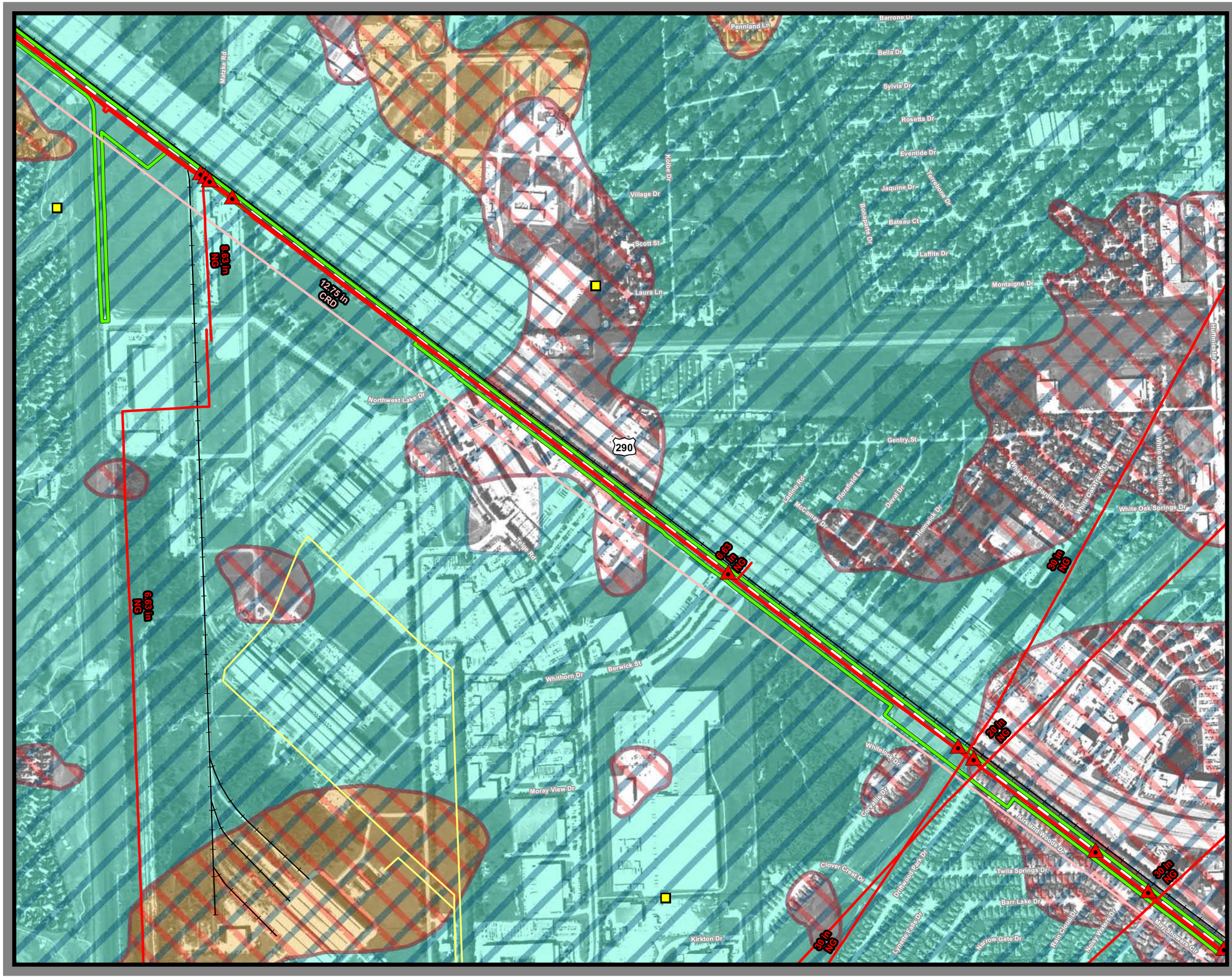
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

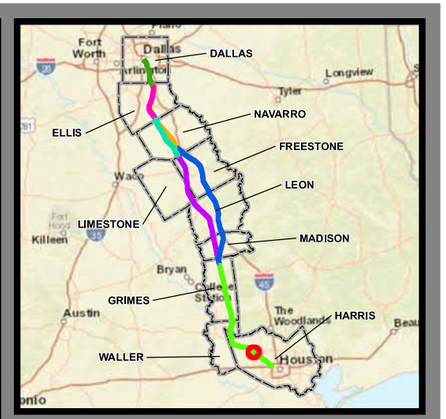
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 5
**Sheet 246 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

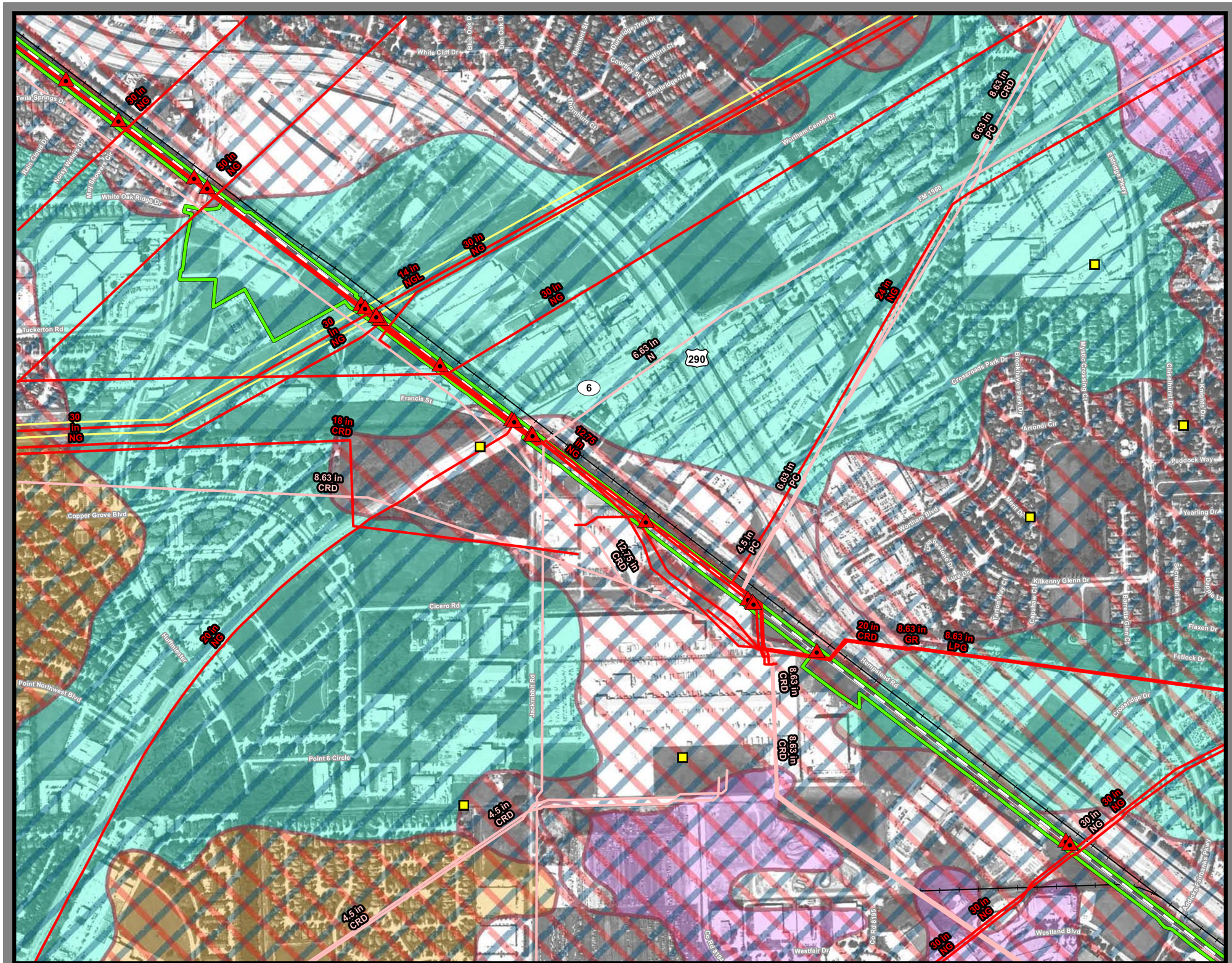
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

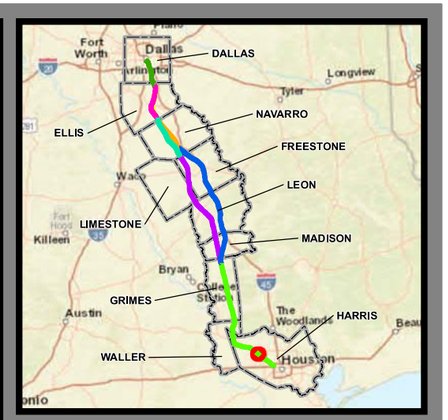
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

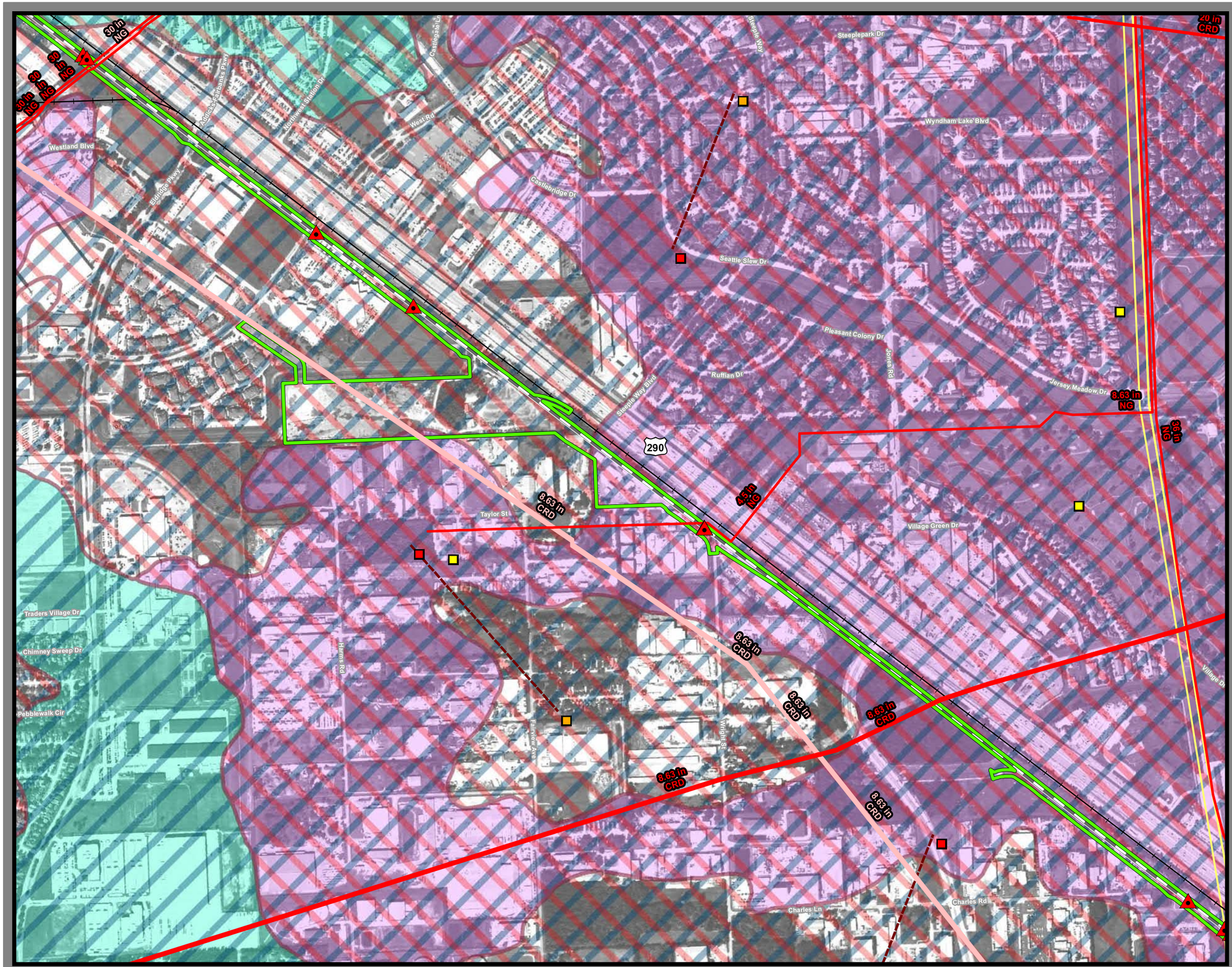
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

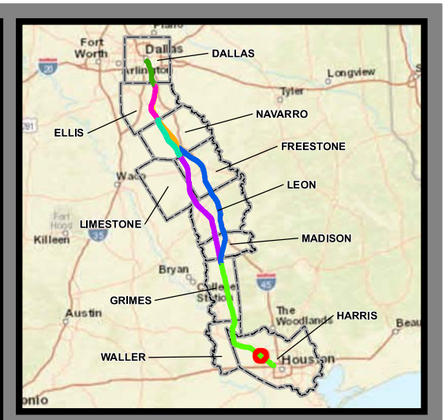
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

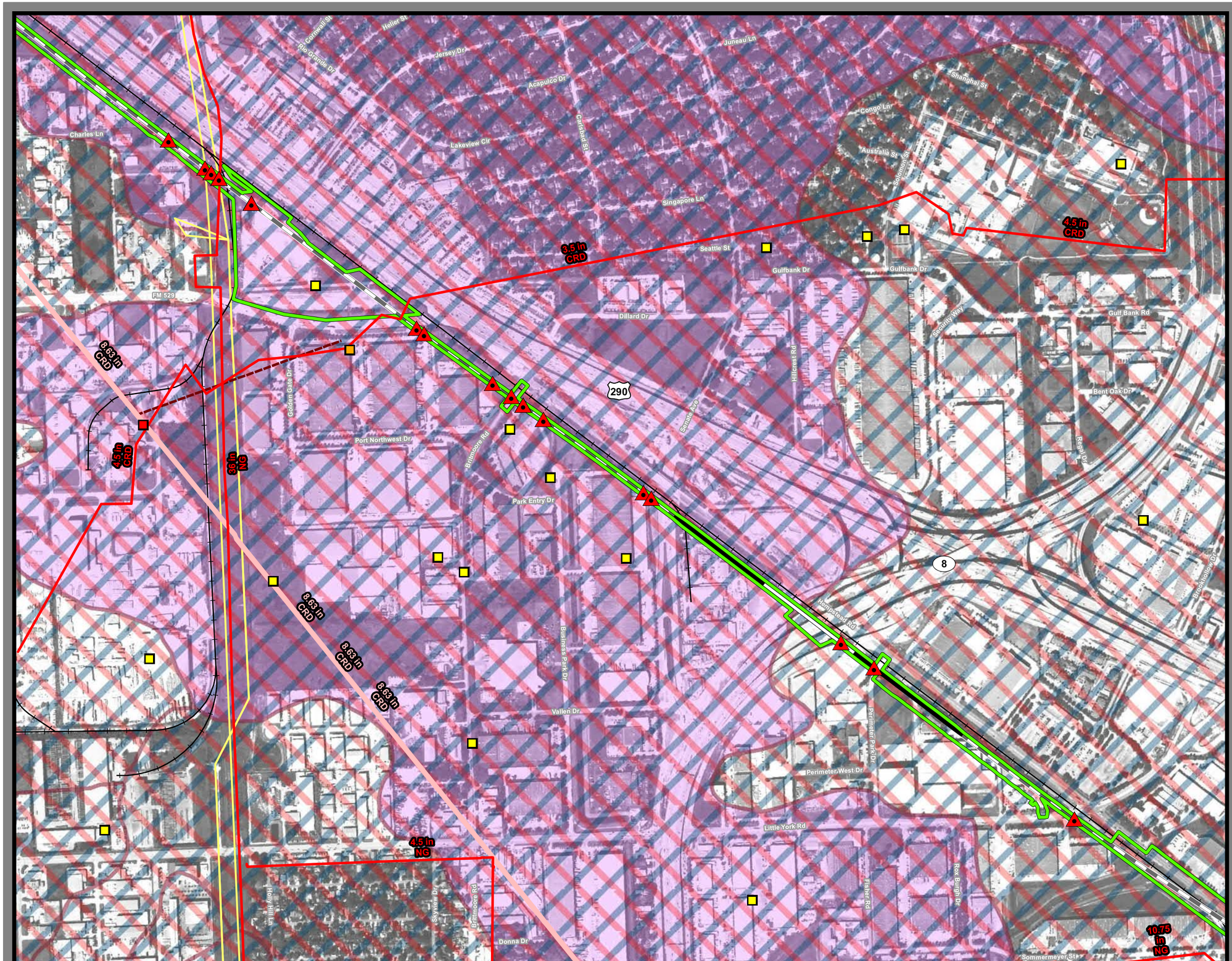
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

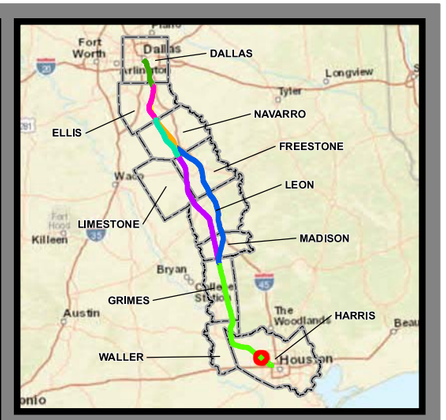
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

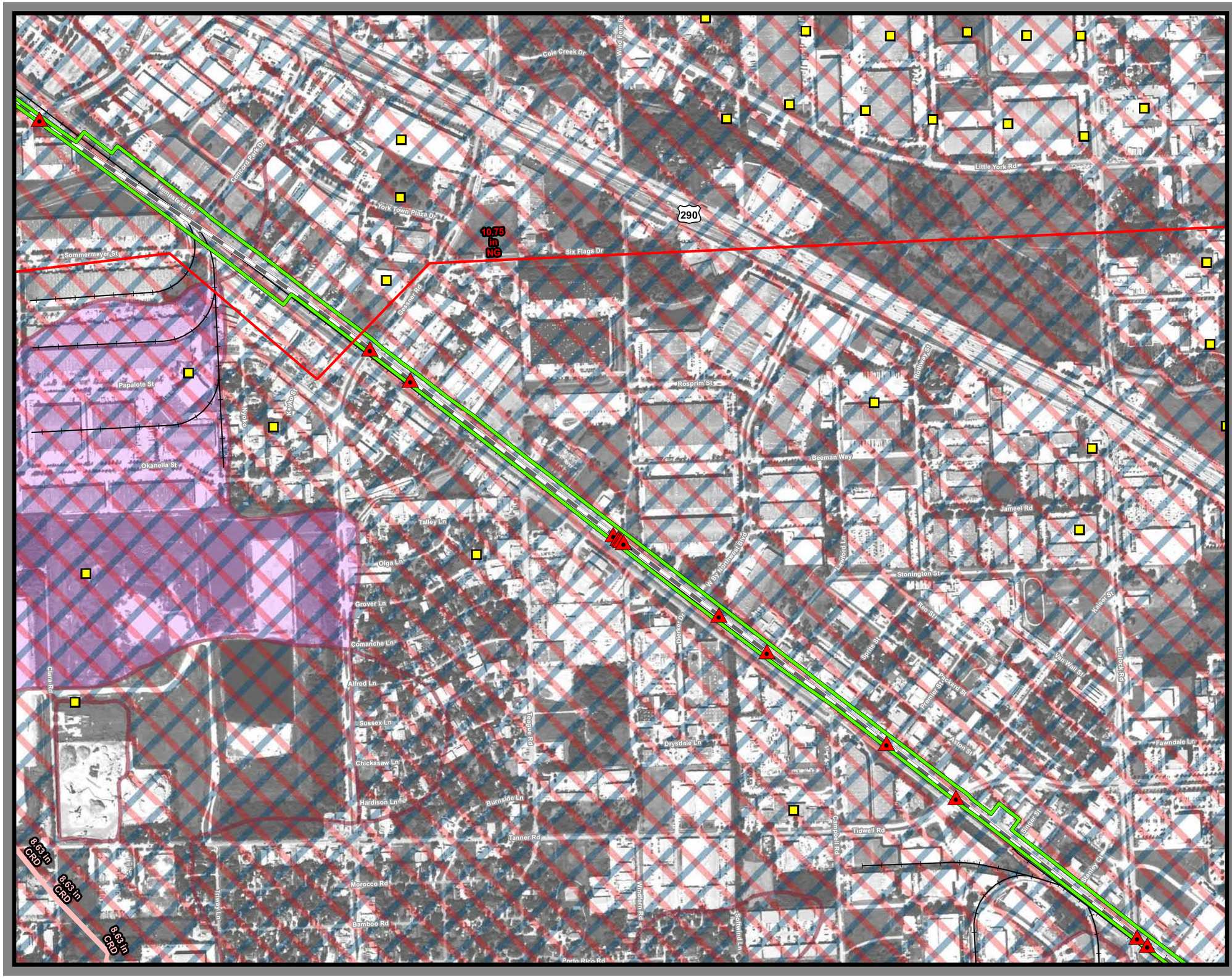
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

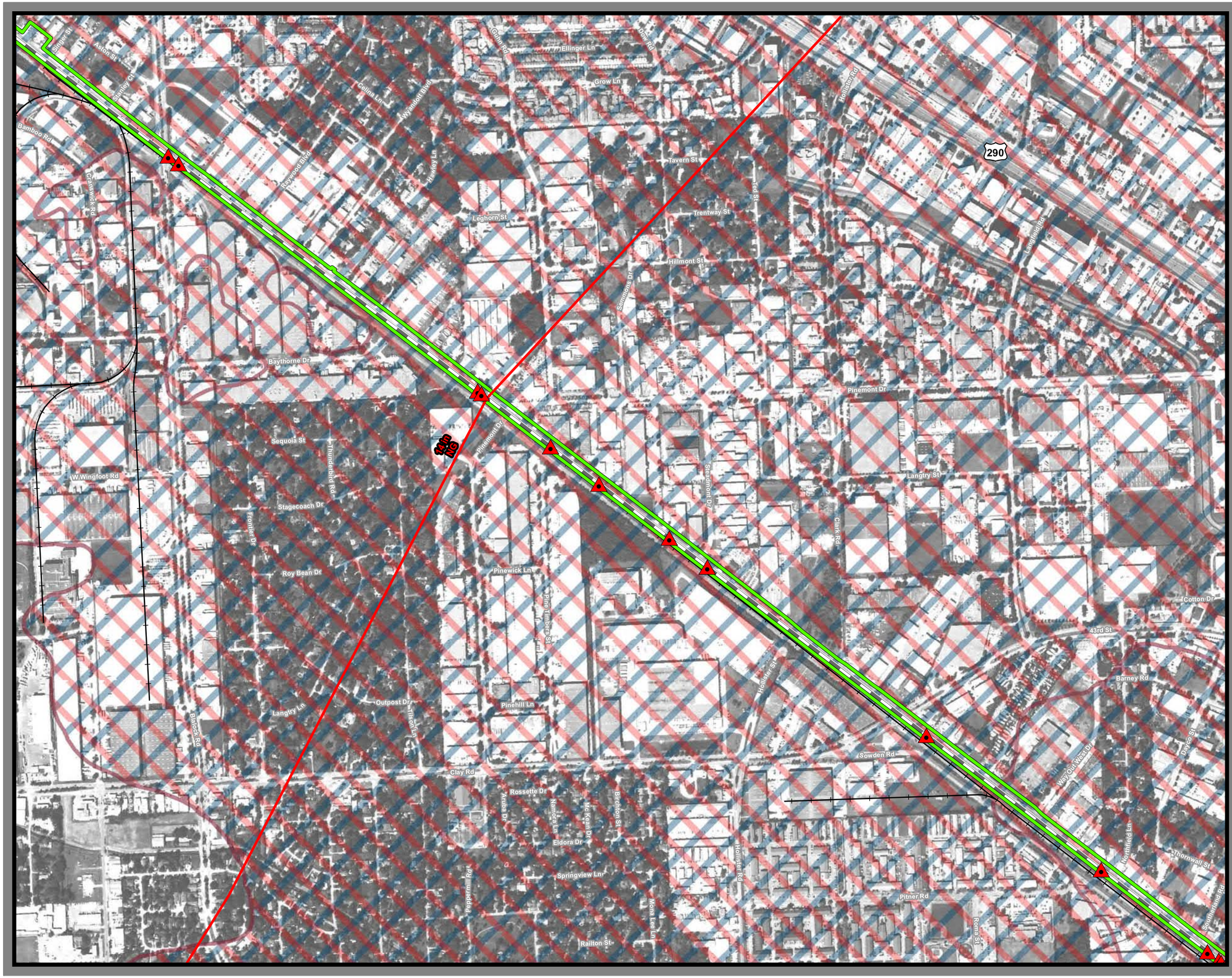
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

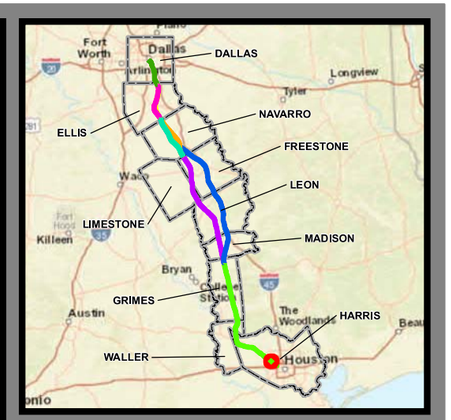
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

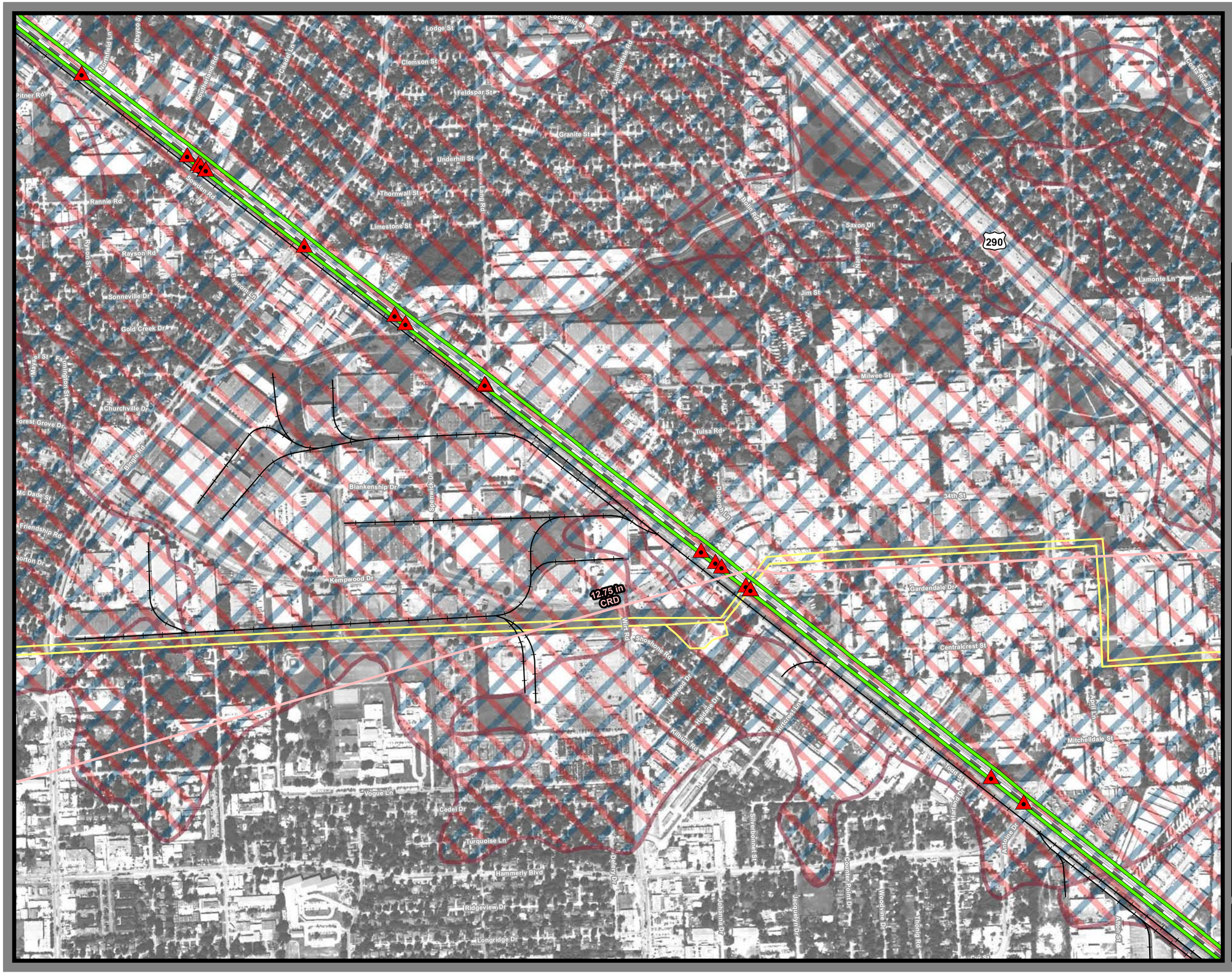
**Oil/Gas Pipelines**
- Active
- Abandoned

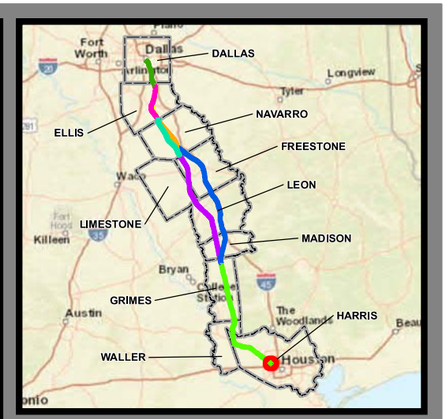
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet




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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

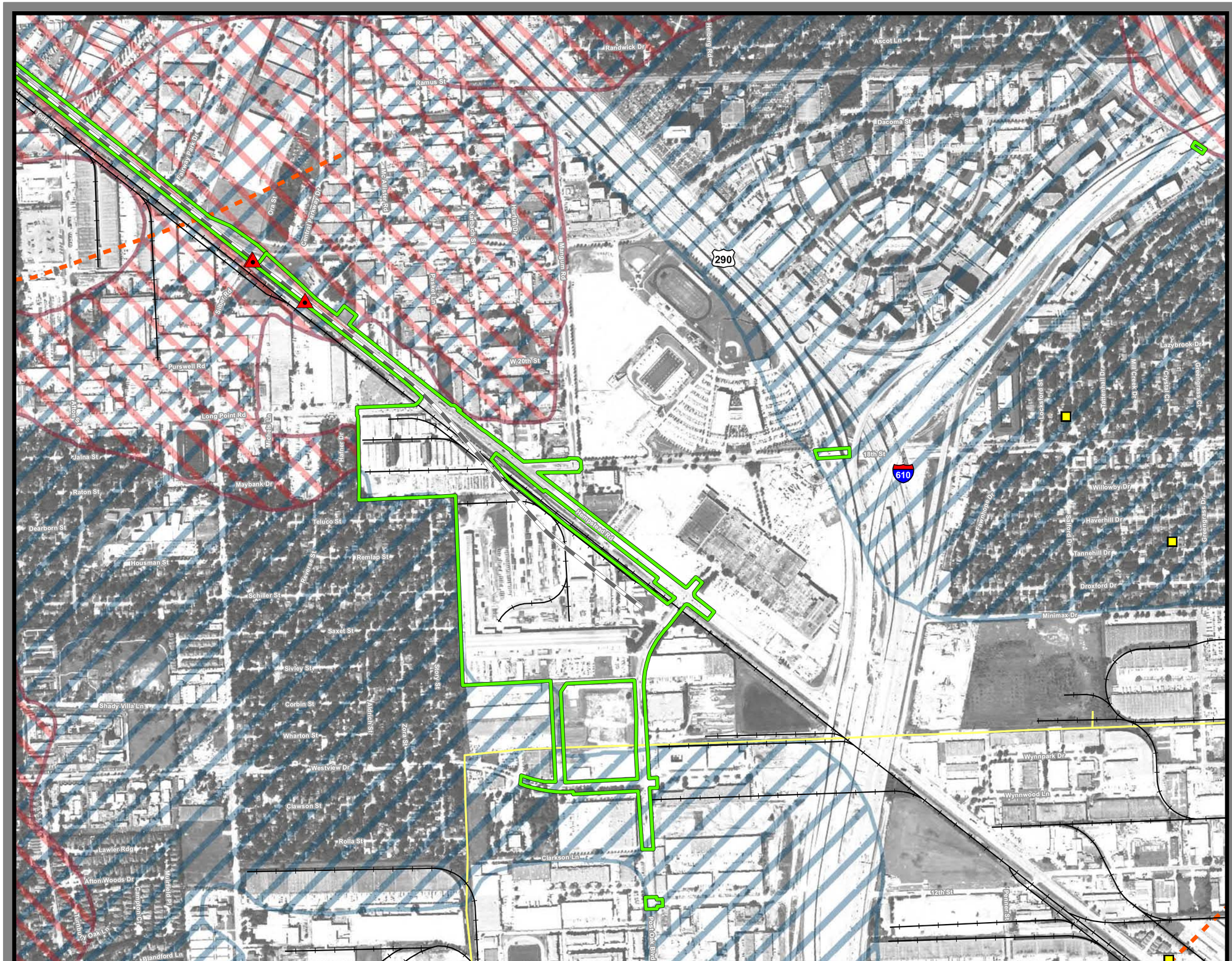
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





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

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

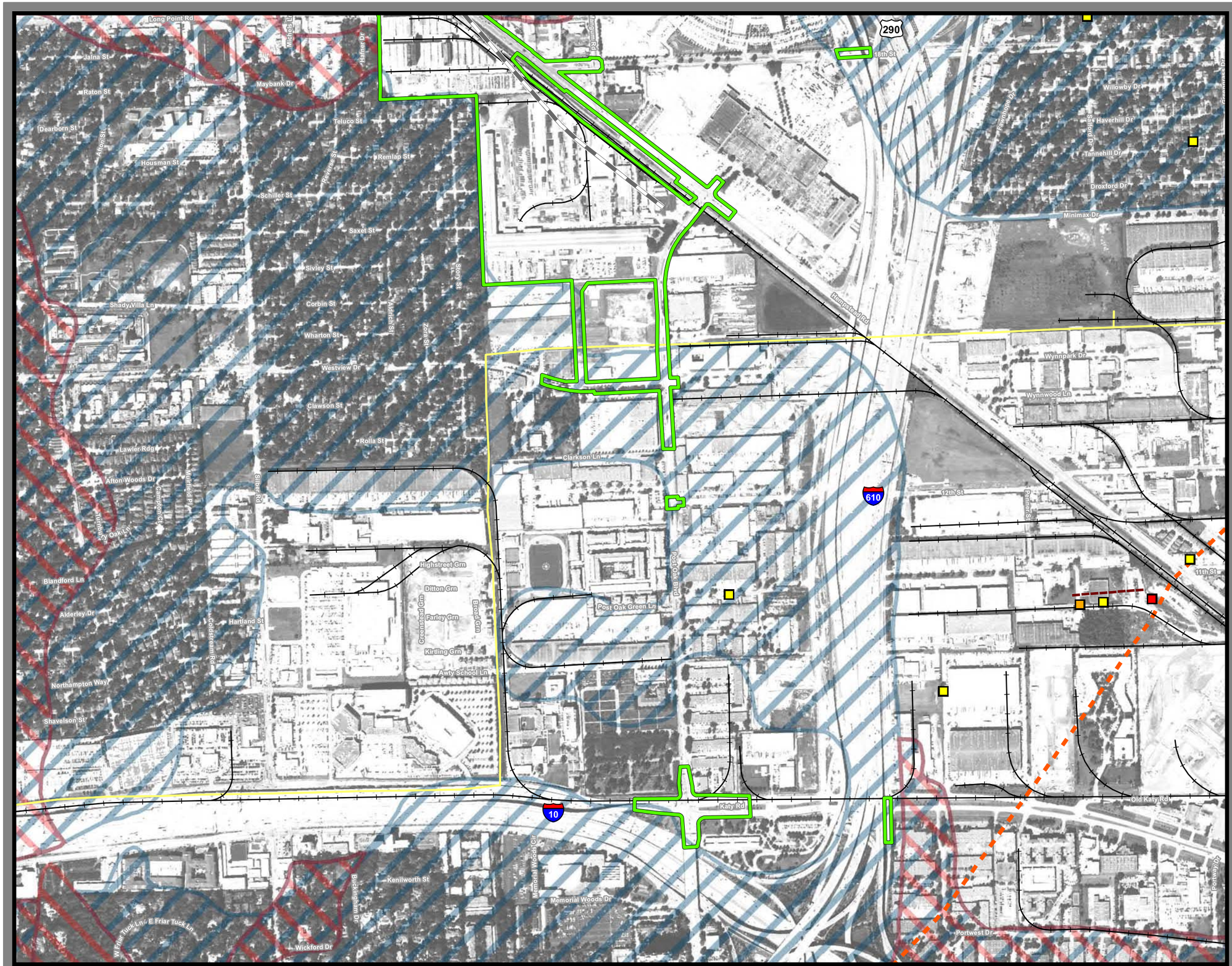
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 5, Industrial Site Terminal Option
**Sheet 254 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

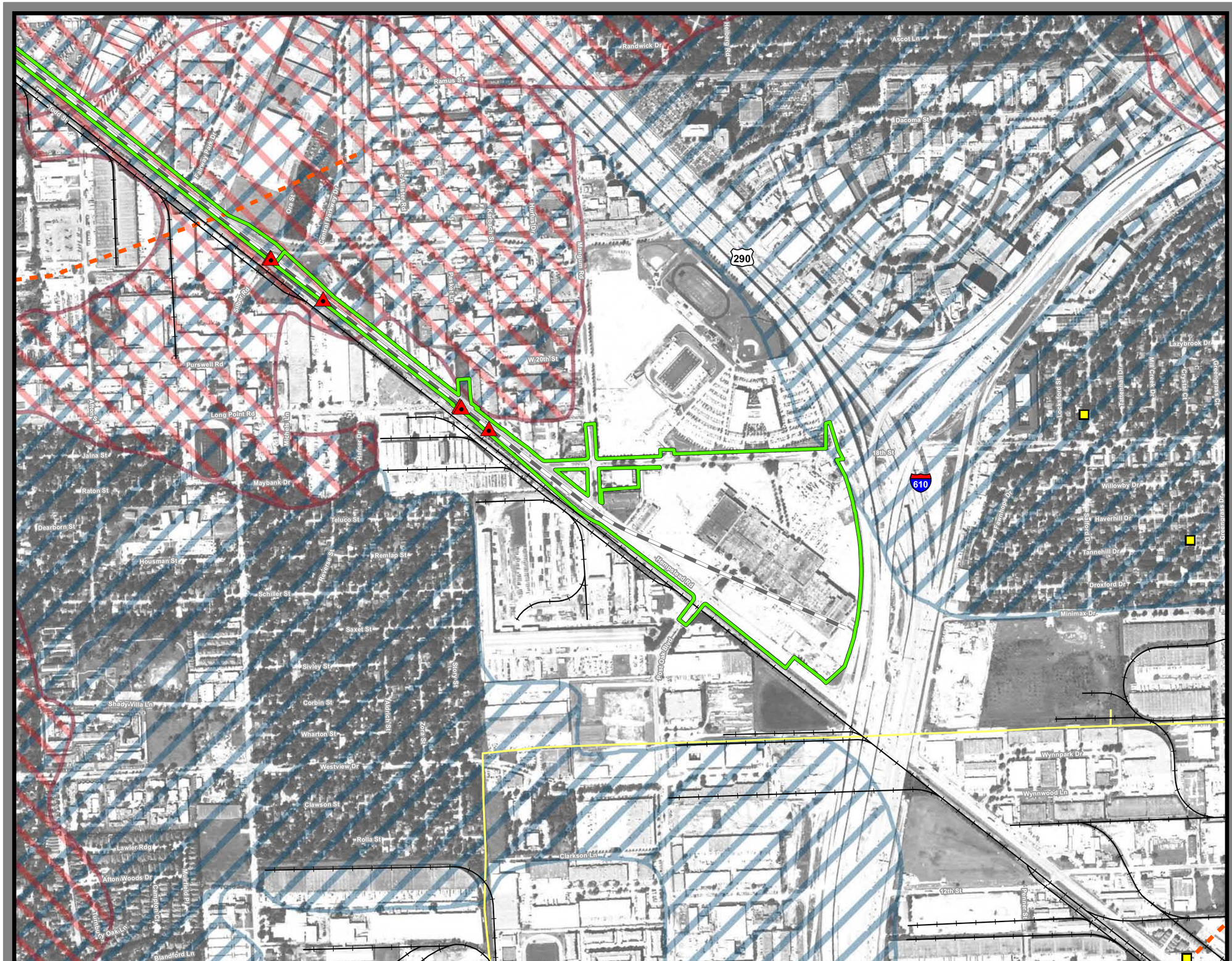
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

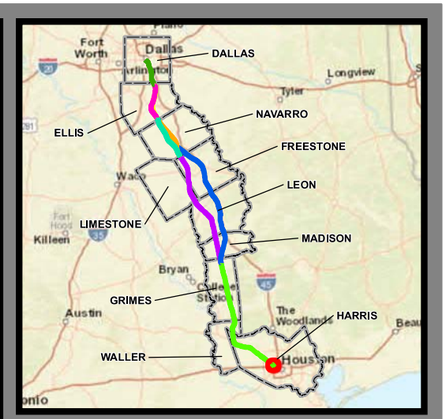
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 5, Northwest Mall Terminal Option
**Sheet 255 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

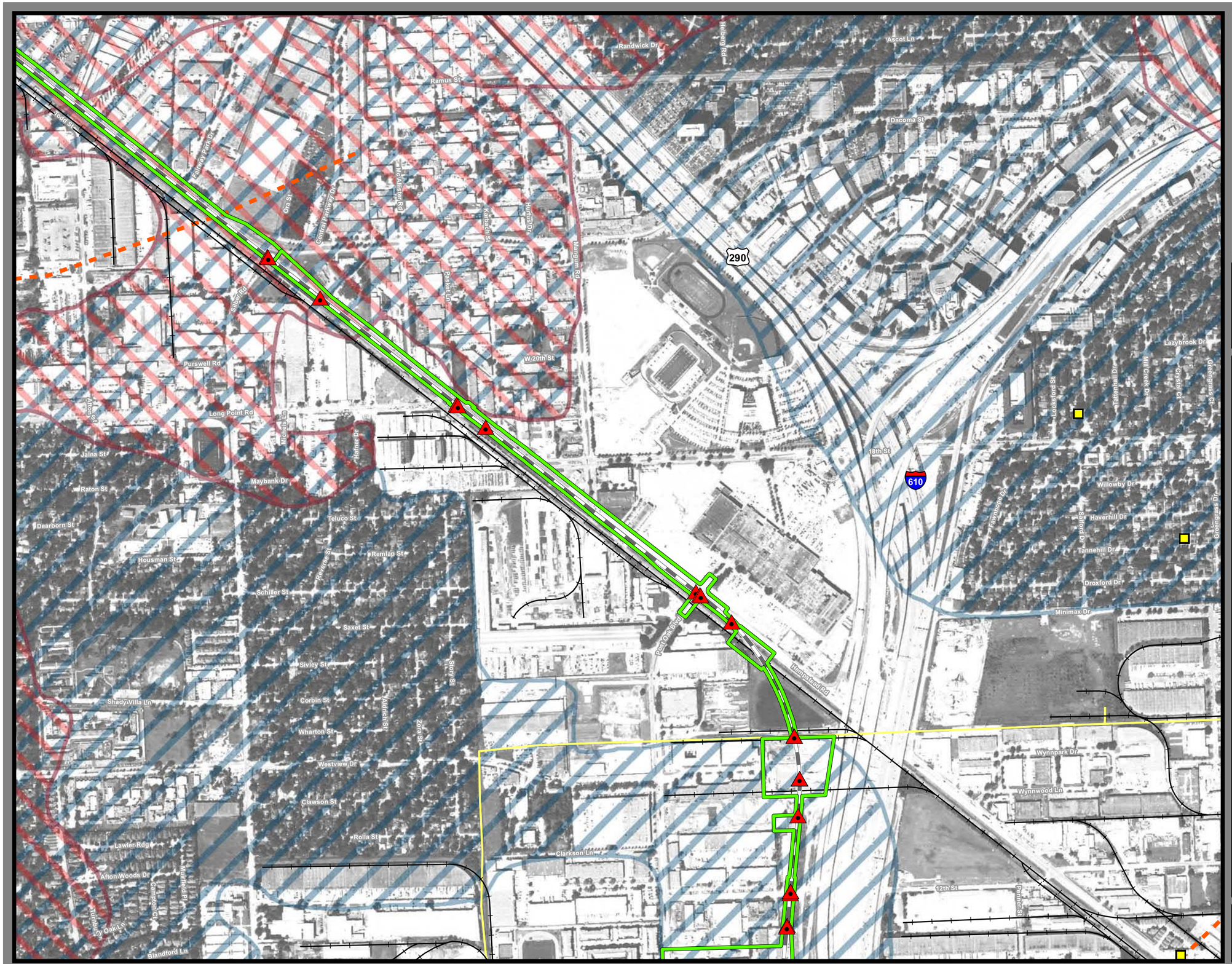
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

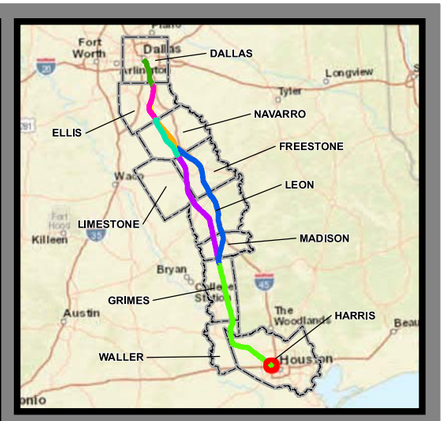
**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified Petroleum Gas; N - Nitrogen; NG - Natural Gas; NG-FWS - Natural Gas FWS; NGL - Natural Gas Liquids; PC - Propylene Chem; R-LPG - Raw LPG; RPP - Refined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

1 inch = 800 feet
0 200 400 800 Feet

N W E S




**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 5, Northwest Transit Center Terminal Option
**Sheet 256 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

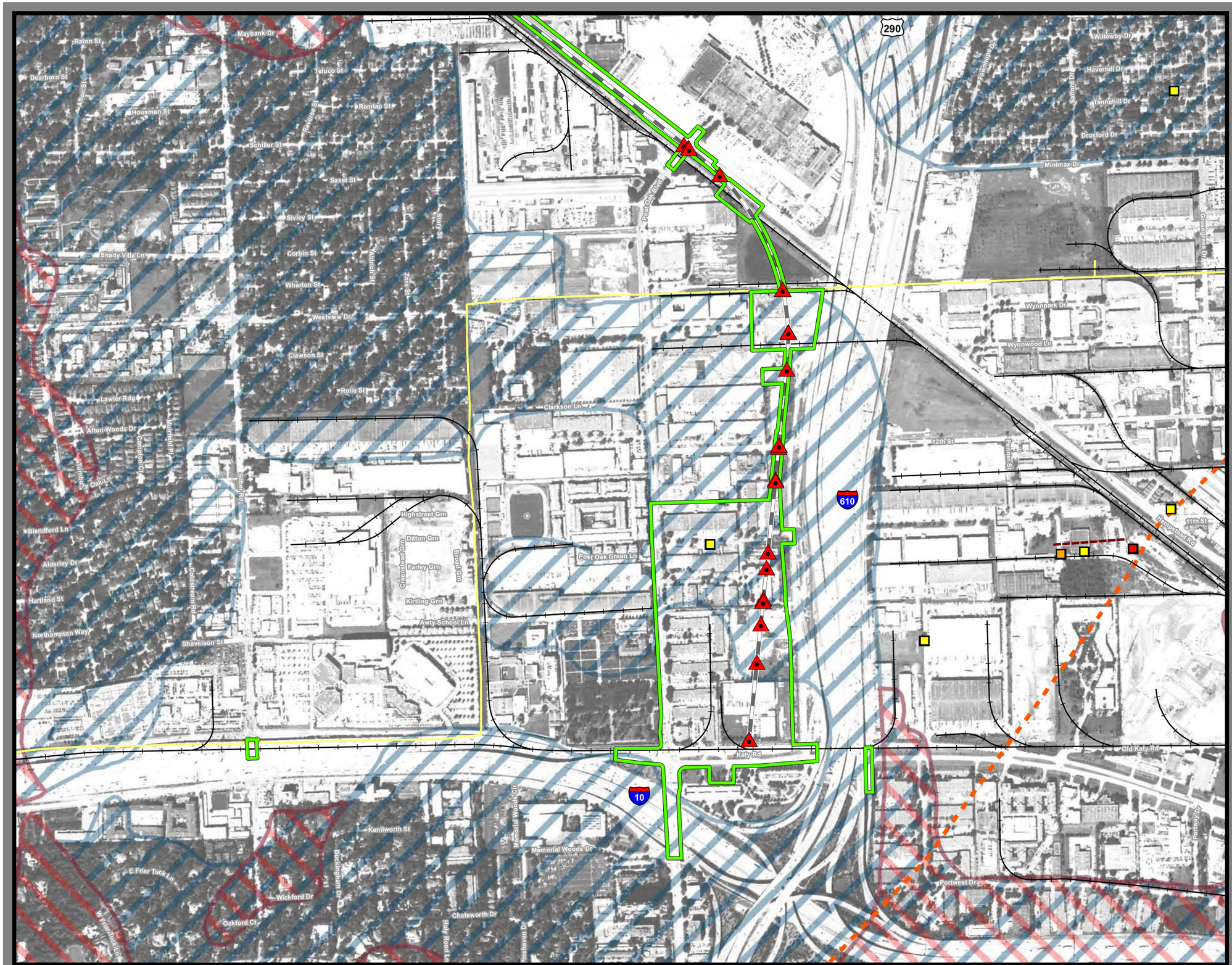
**Soils**
- Highly Erodible
- Hydric
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if Drained

**Abbreviated Pipeline Labels:**
CRD - Crude Oil; E/P - Ethane/Propane; EMT - Empty; GJD - Gasoline/Jet Fuel/Diesel; GR - Gasoline Regular; LPG - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S





**Dallas to Houston**
**High-Speed Rail Project**
*Mineral and Utility Resources*
Segment 5, Northwest Transit Center Terminal Option
**Sheet 257 of 257**

## Legend

**Limits of Disturbance**
- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 3C
- Segment 4
- Segment 5

**Track Configuration**
- Viaduct
- Embankment
- Cut
- County Boundary
- Railroad
- Faults

**Utilities**
- Mine
- Utiltiy Crossing
- Electric Transmission Line

**Oil/Gas Wells**
- Vertical
- Directional: Surface
- Directional: Bottom
- Directional Well Lines

**Oil/Gas Pipelines**
- Active
- Abandoned

**Soils**
- Highly Erodible
- 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 - Liquified 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

1 inch = 800 feet
0 200 400 800 Feet

N W E S