

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

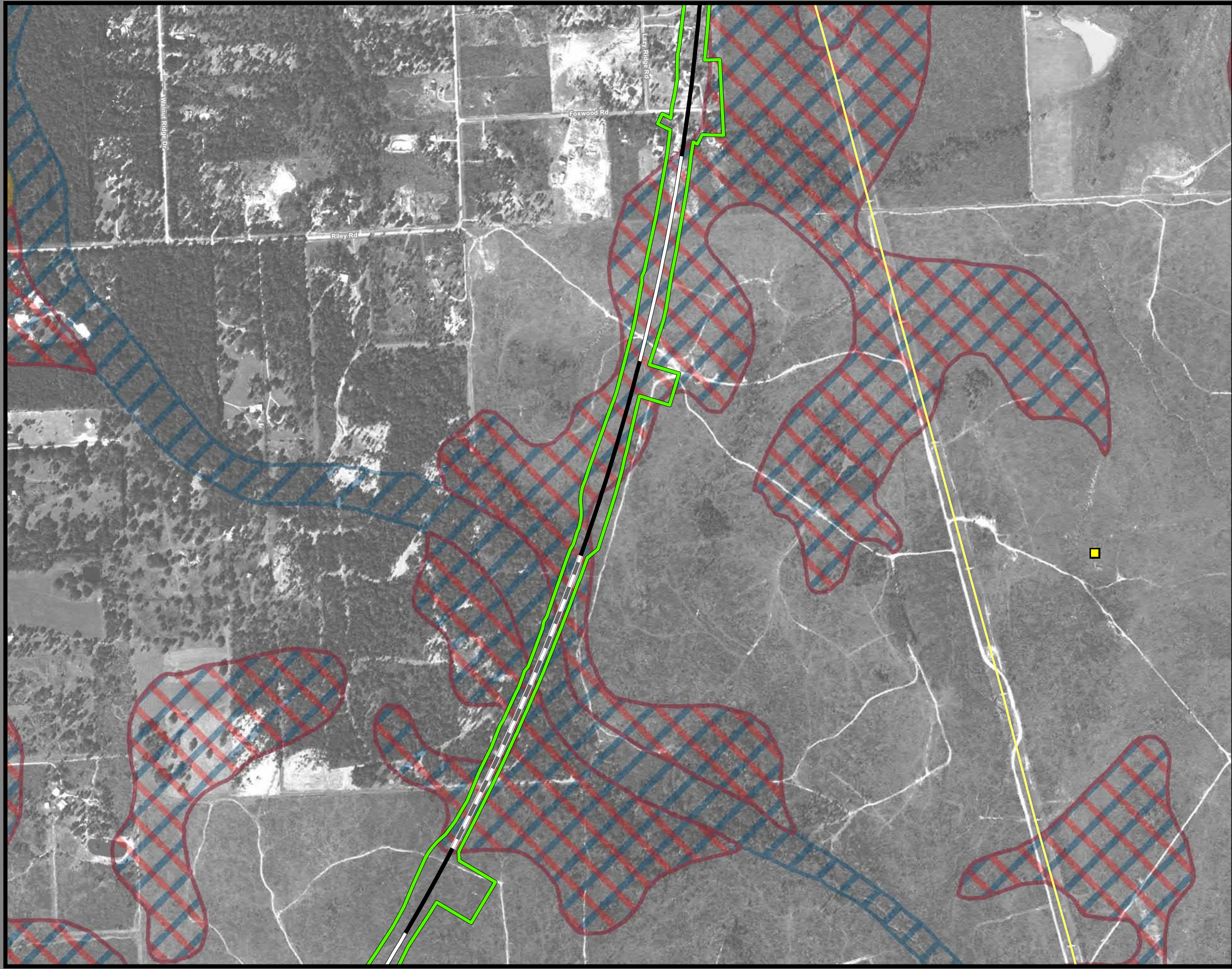
**Legend**

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

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

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





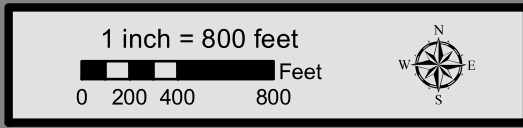
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 229 of 257**

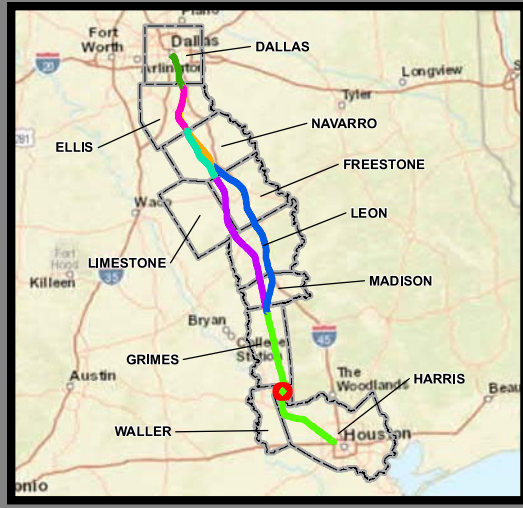
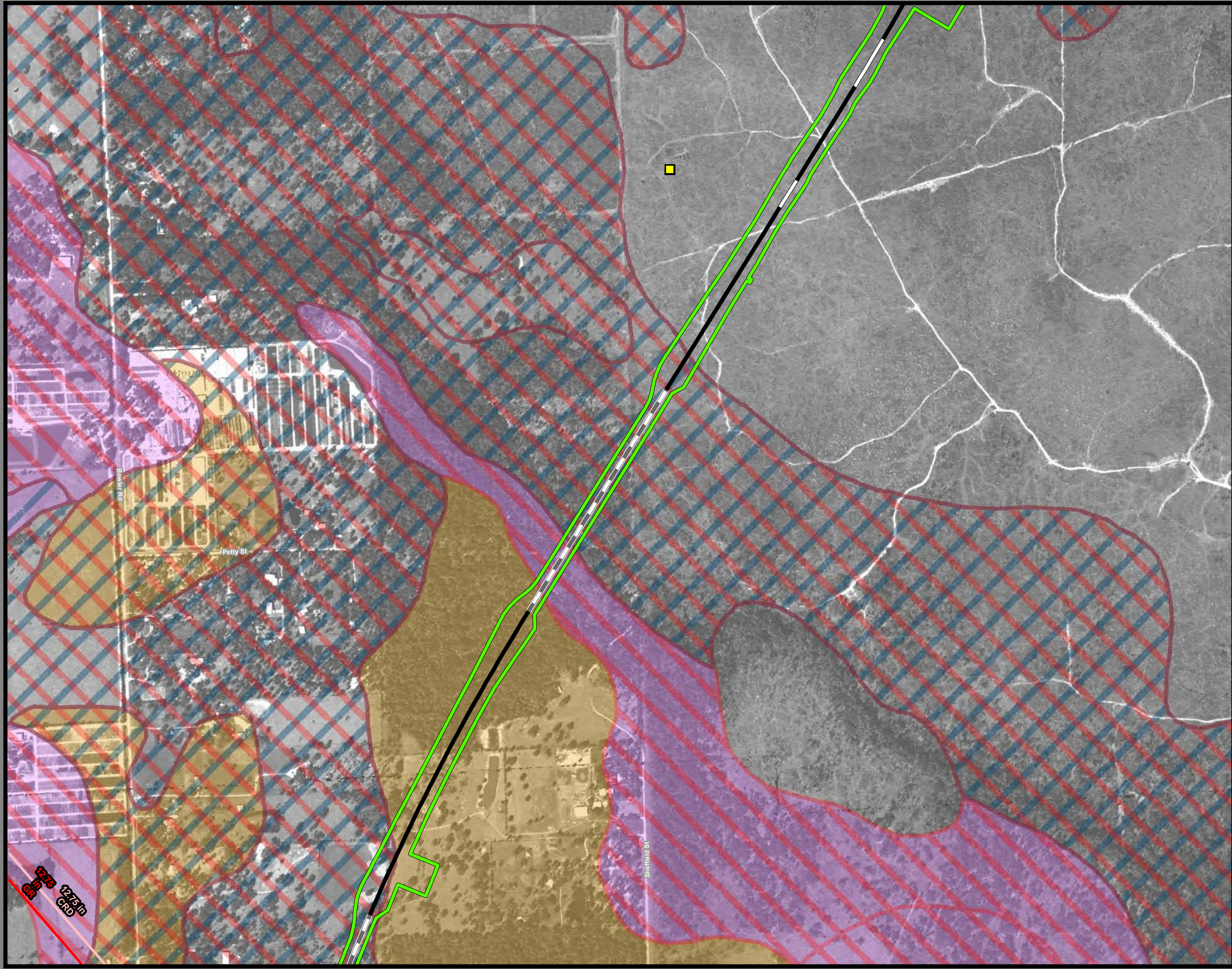
**Legend**

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

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

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





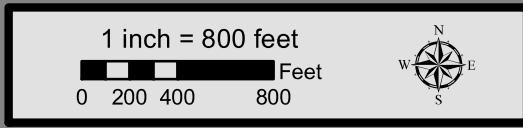
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 230 of 257**

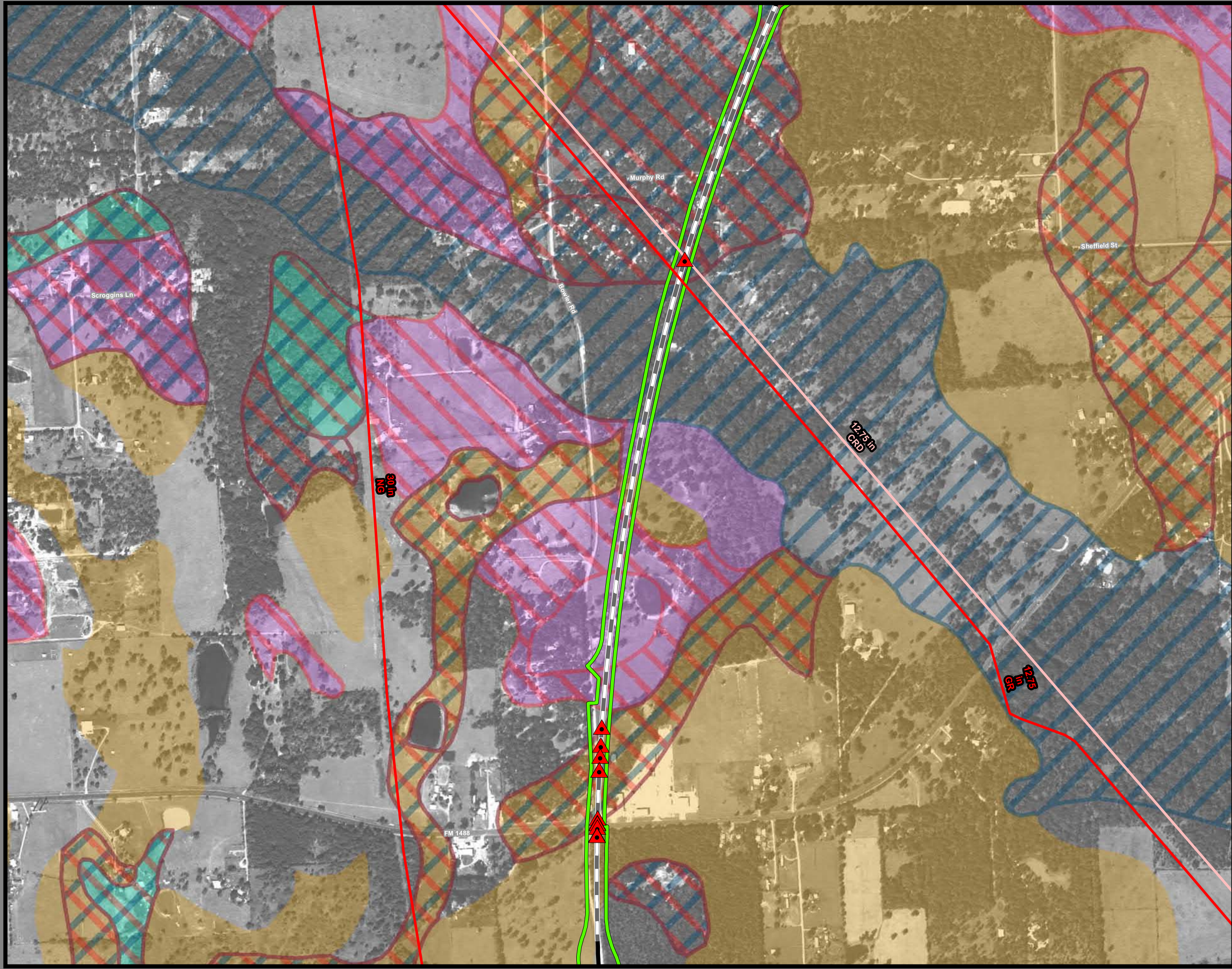
**Legend**

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

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

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





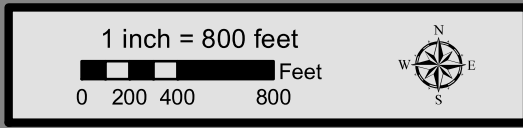
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 231 of 257**

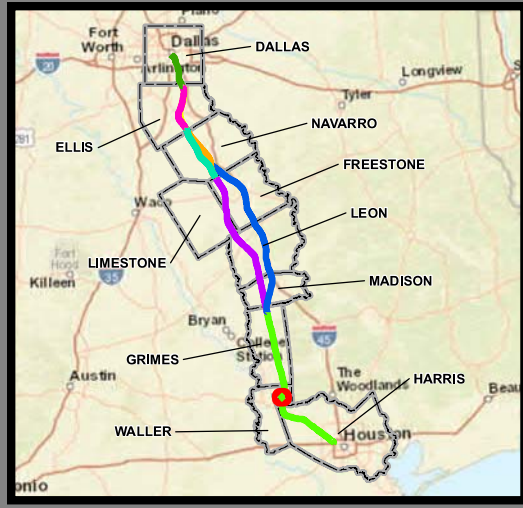
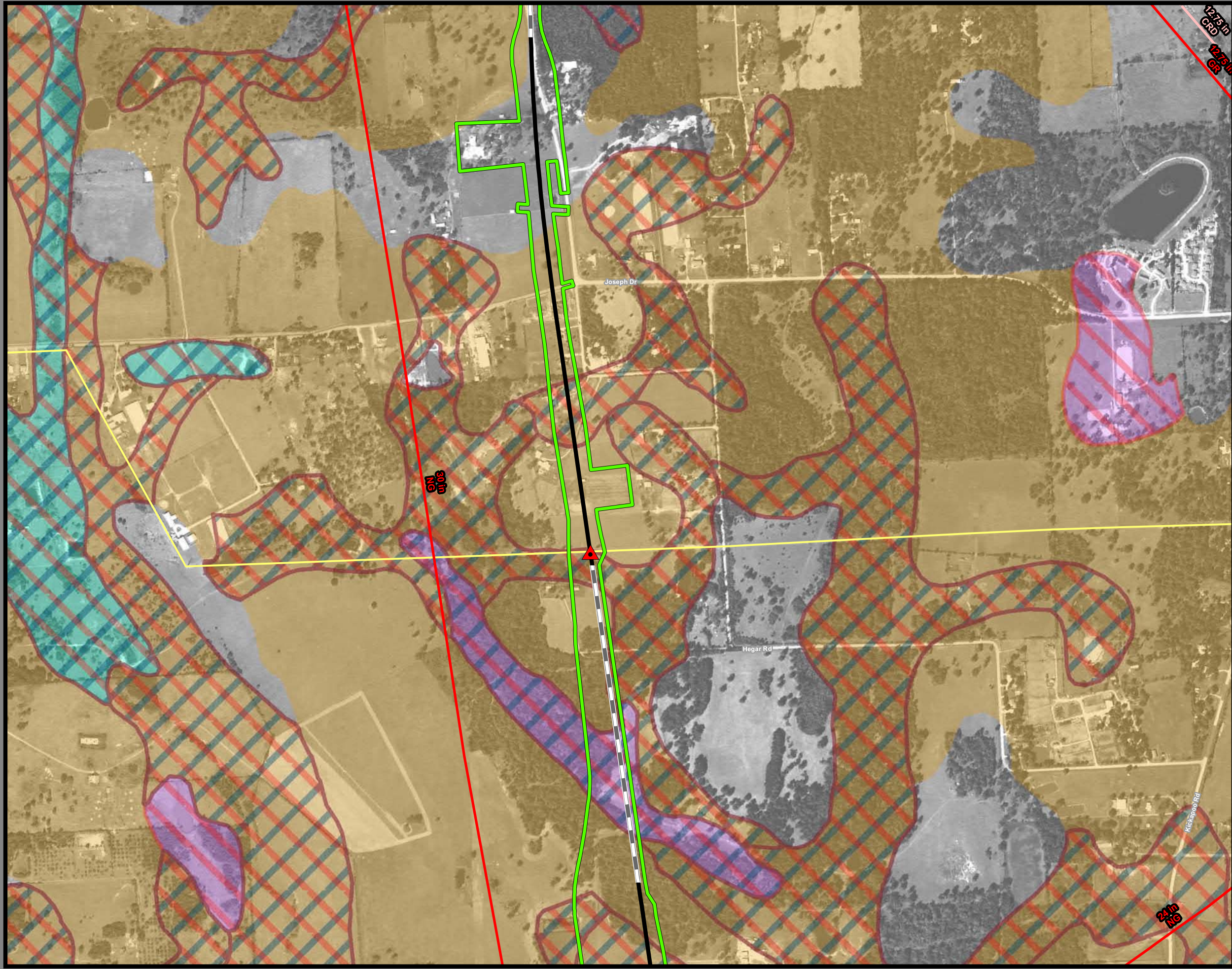
**Legend**

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

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

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





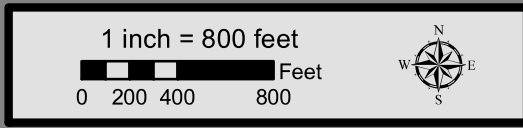
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 232 of 257**

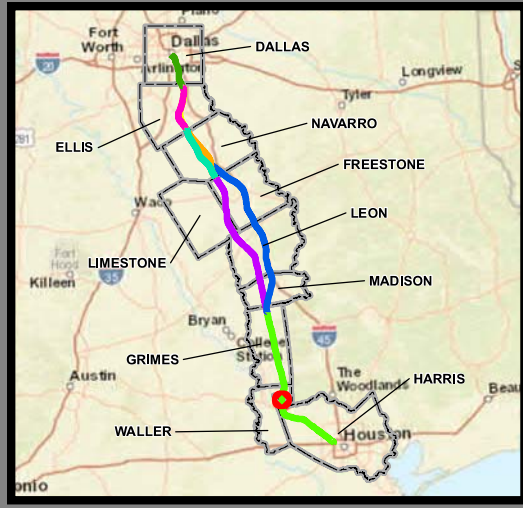
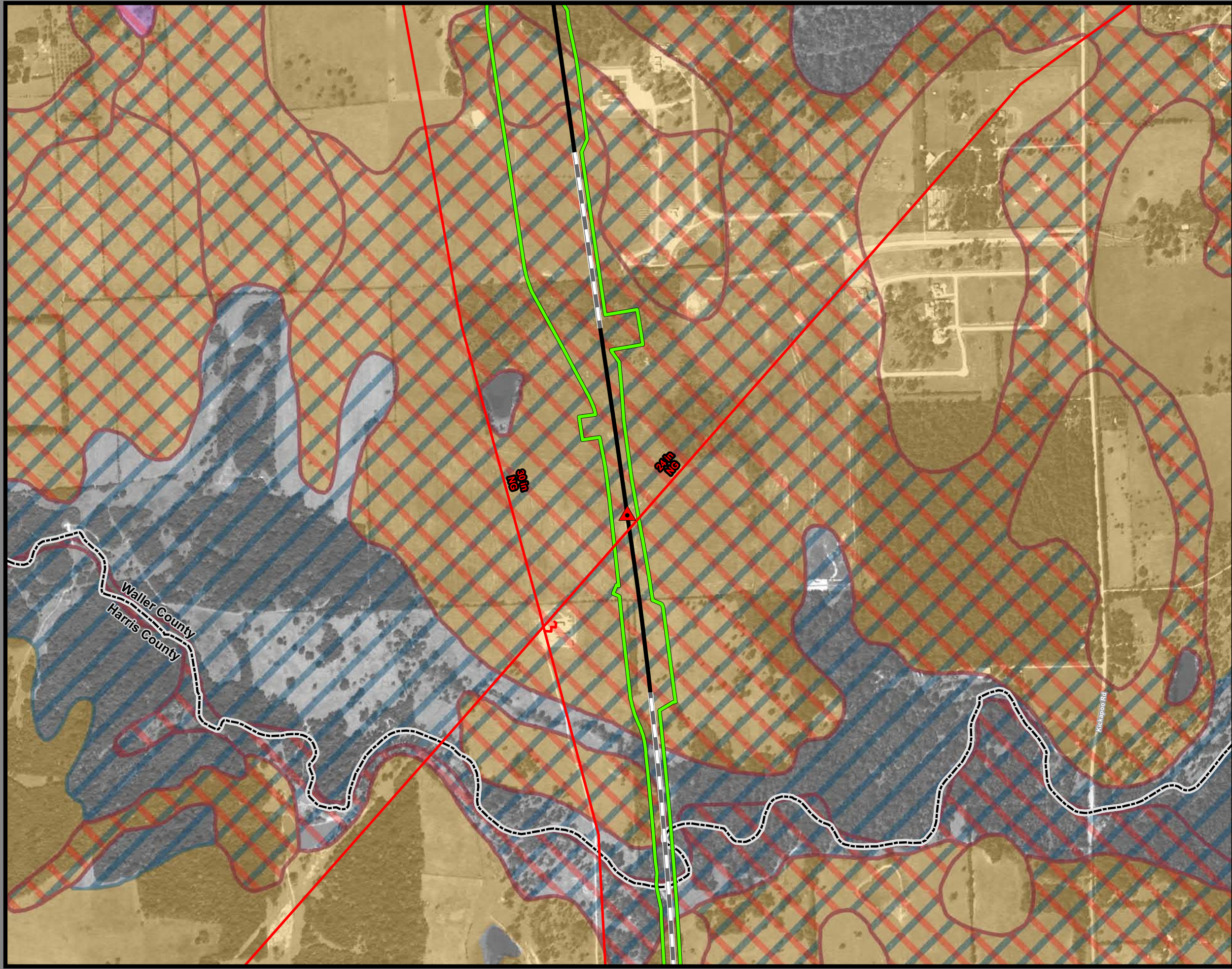
**Legend**

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

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

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





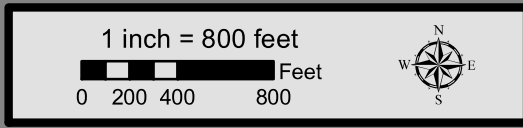
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 233 of 257**

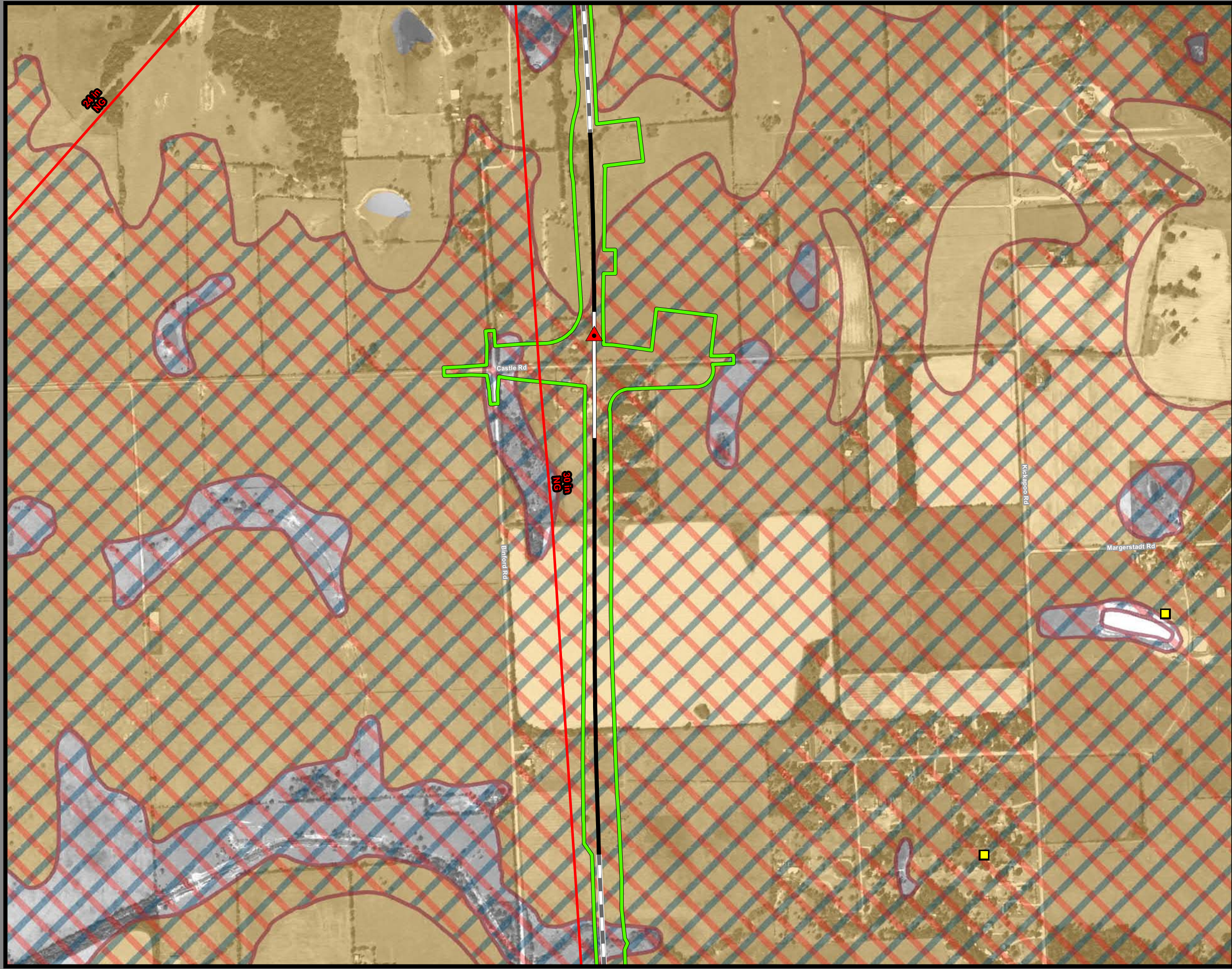
**Legend**

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

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

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





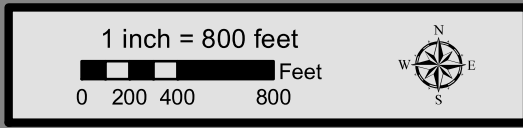
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 234 of 257**

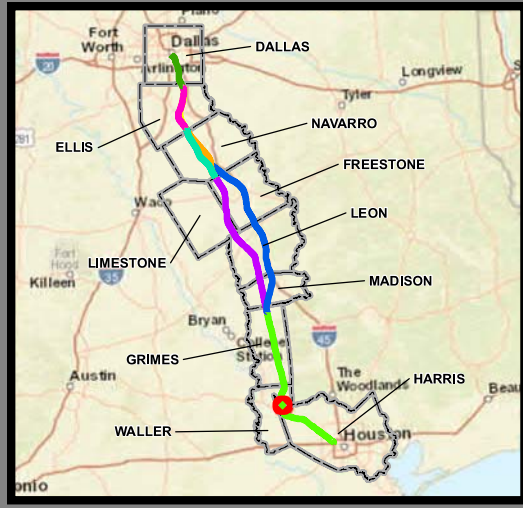
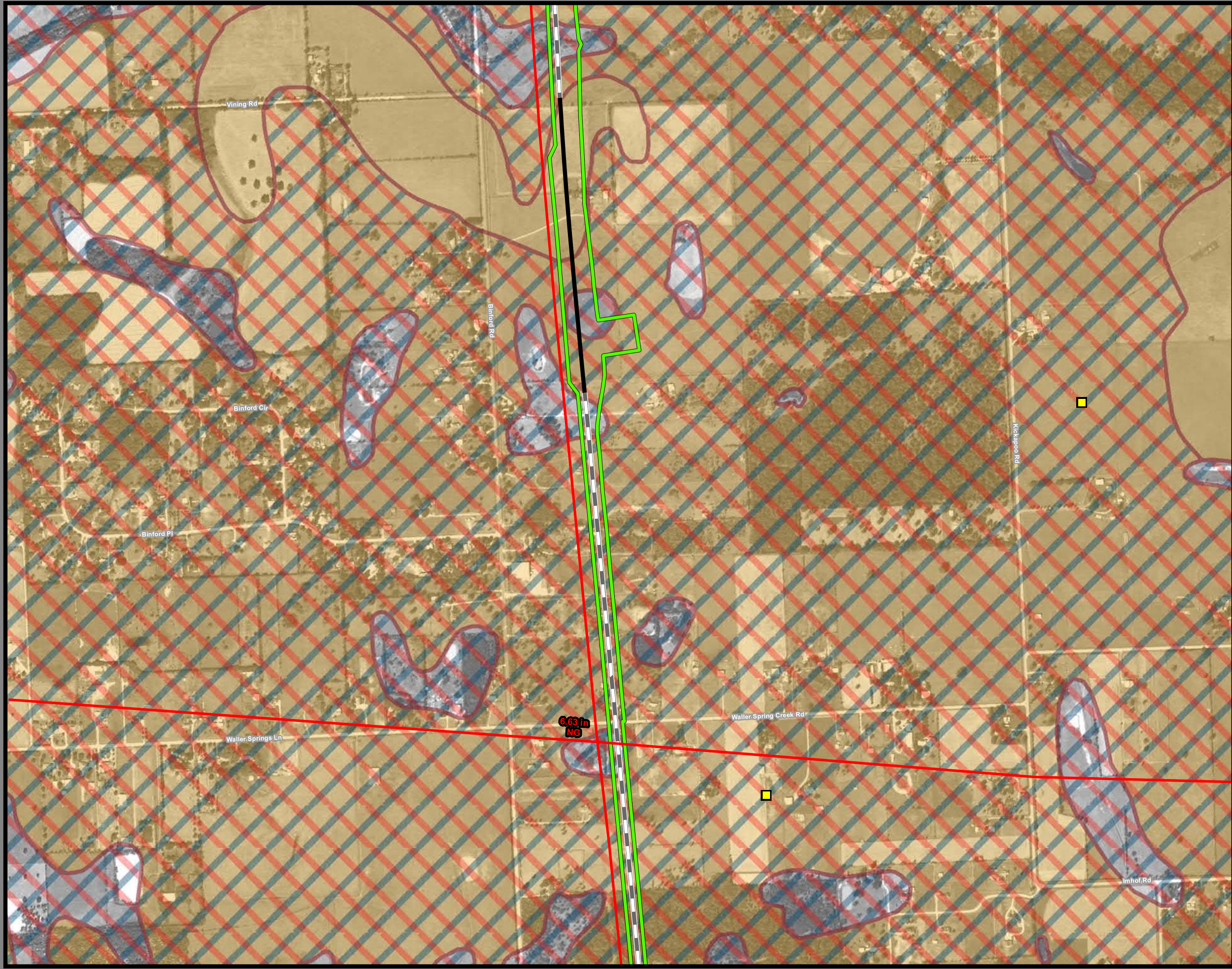
**Legend**

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

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

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





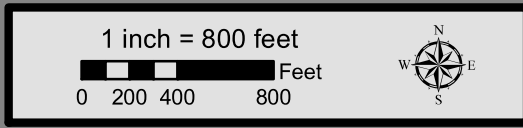
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 235 of 257**

**Legend**

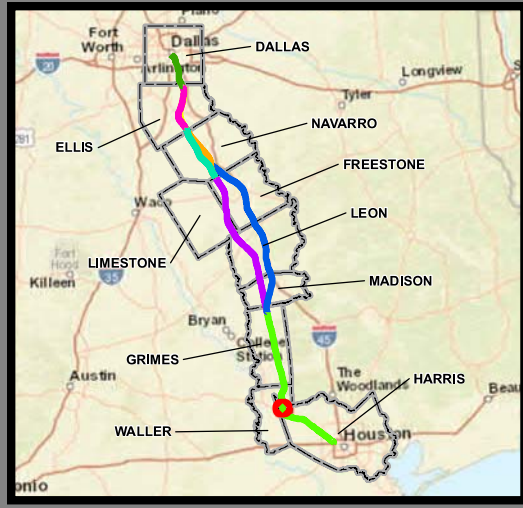
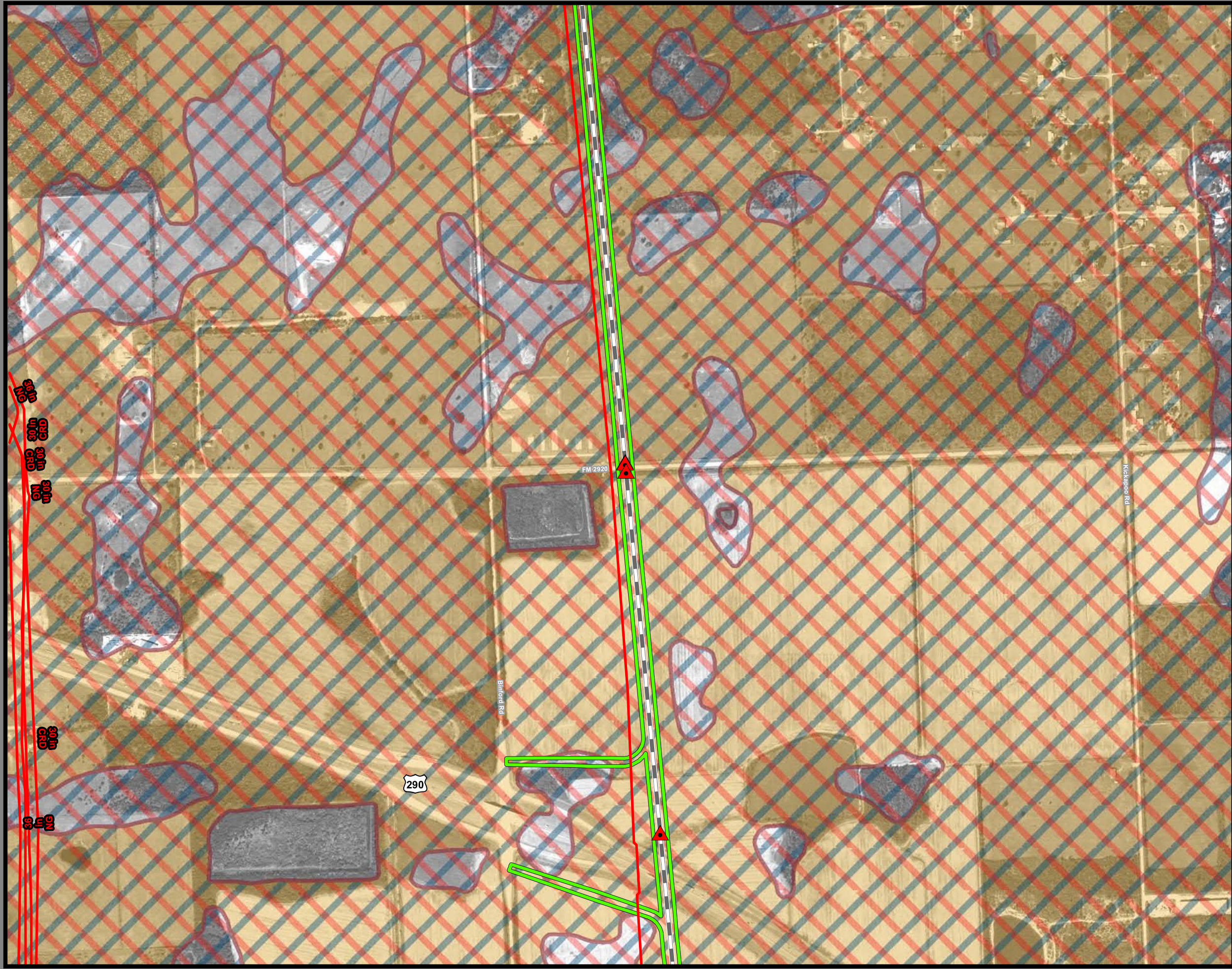
|                              |                                  |
|------------------------------|----------------------------------|
| <b>Limits of Disturbance</b> | <b>Utilities</b>                 |
| Segment 1                    | Mine                             |
| Segment 2A                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

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

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







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

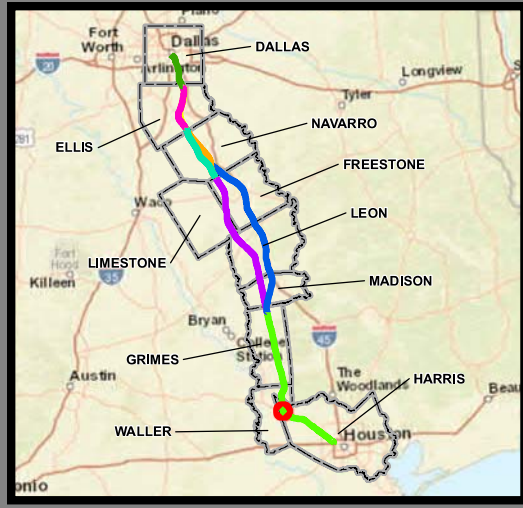
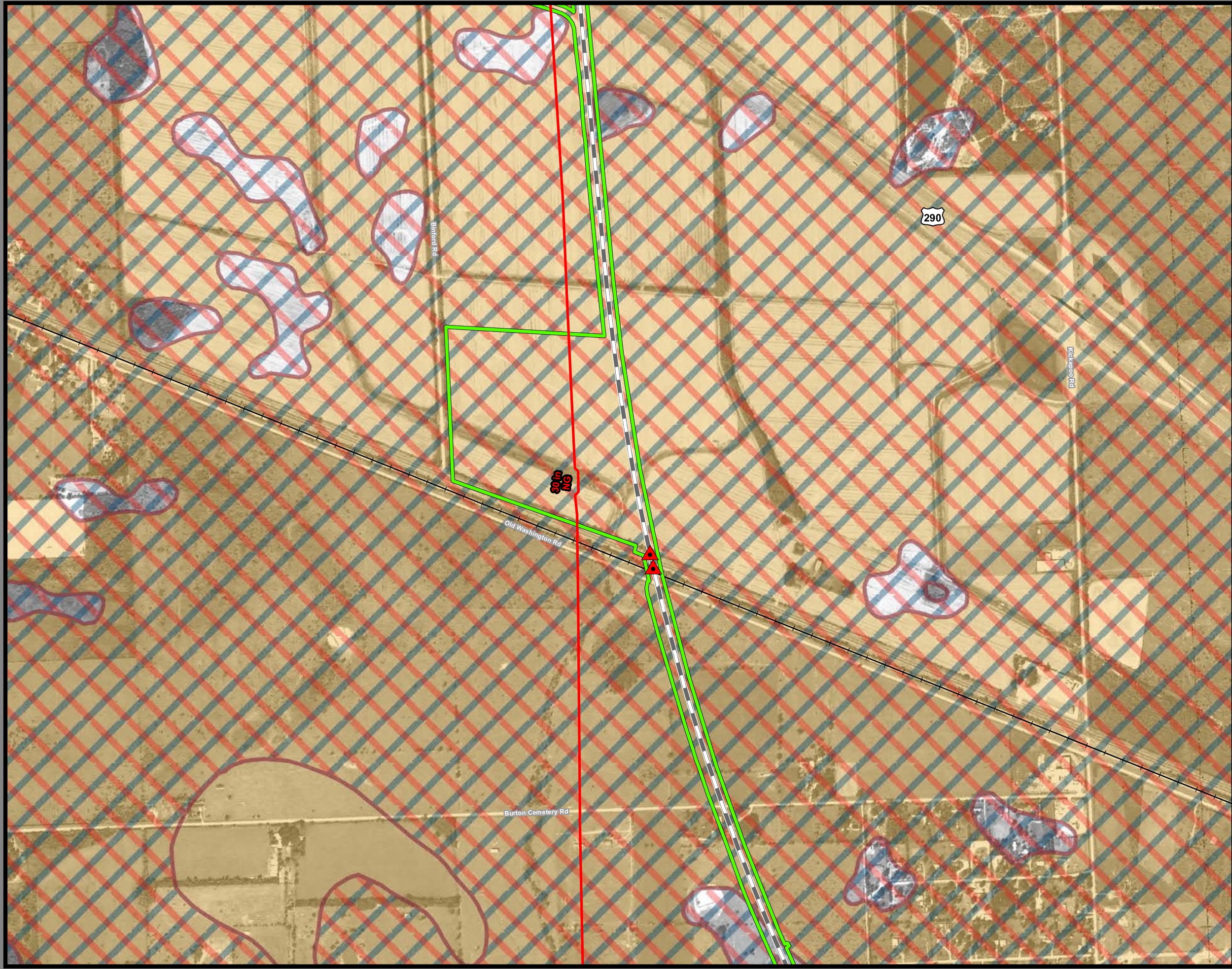
**Legend**

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

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

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





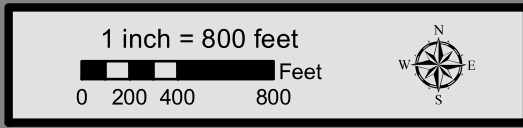
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 237 of 257**

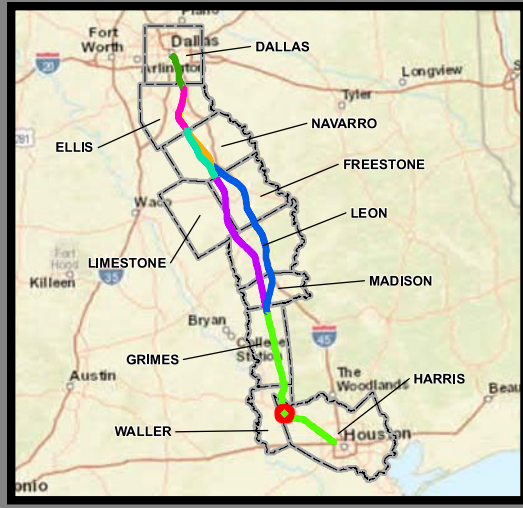
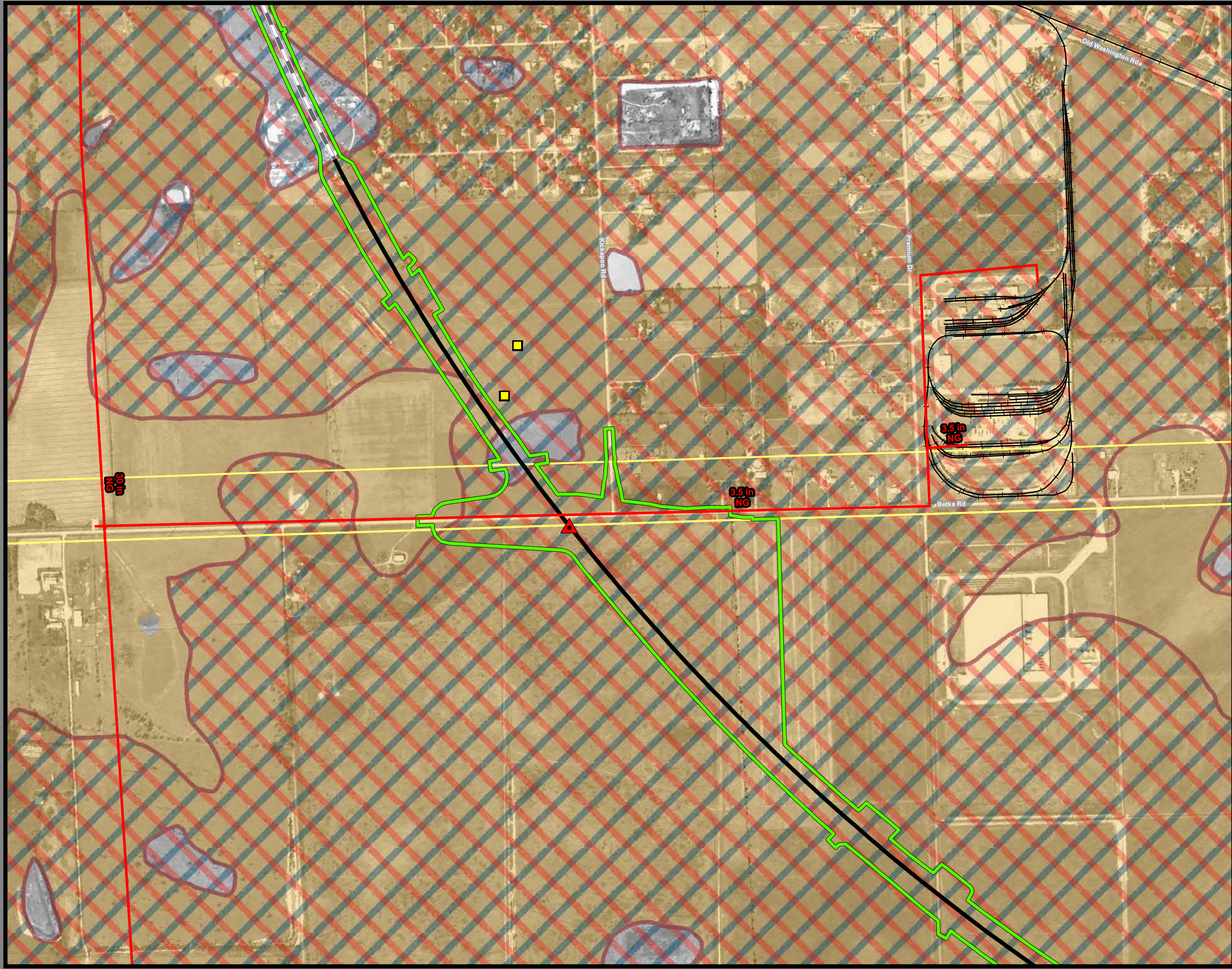
**Legend**

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

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

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





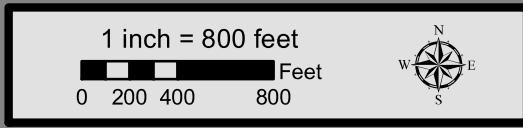
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 238 of 257**

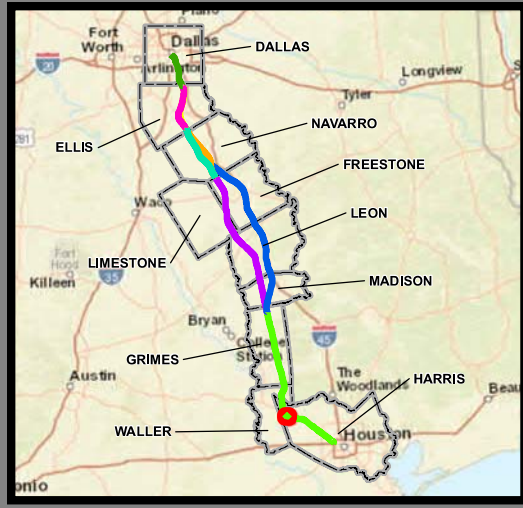
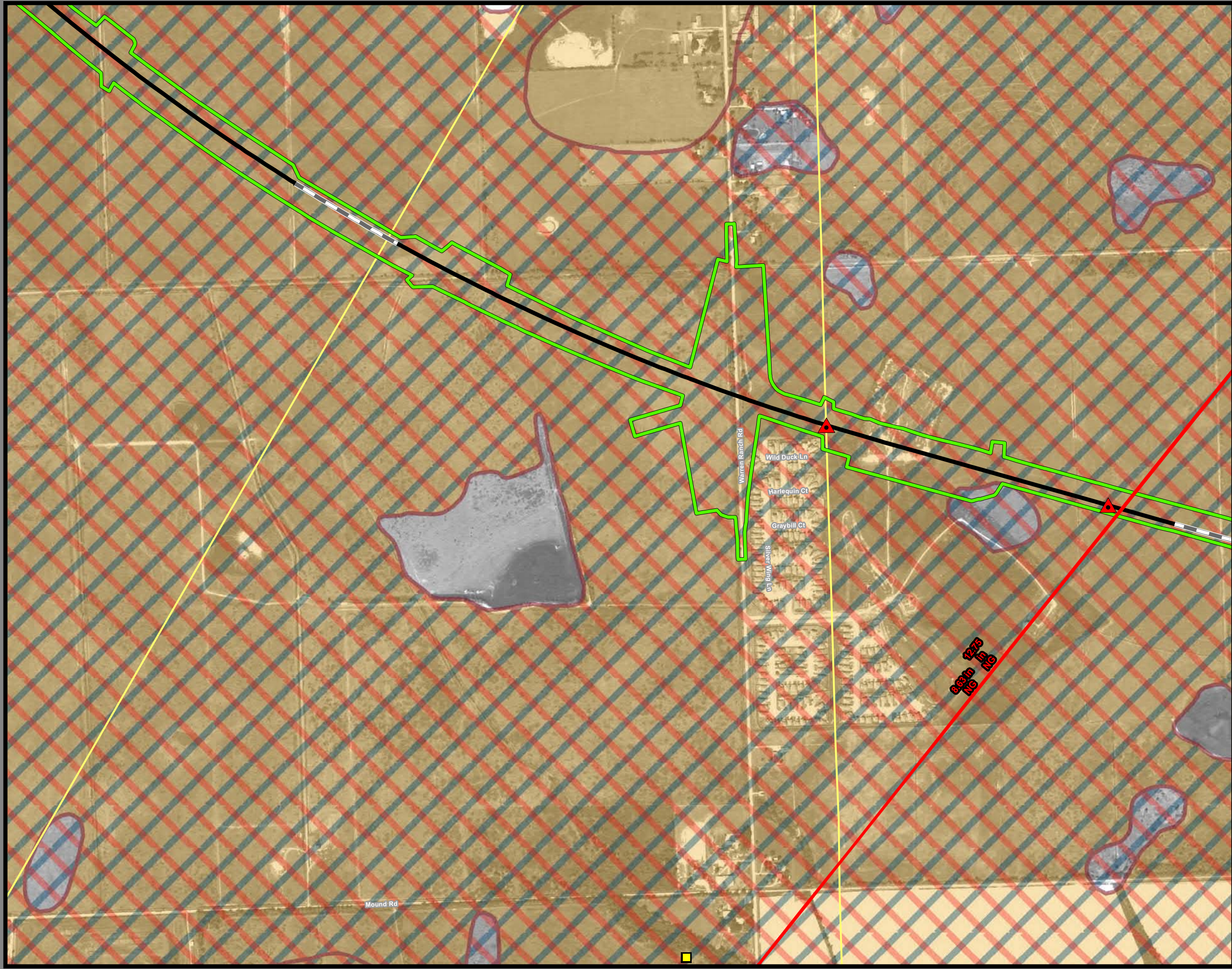
**Legend**

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

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

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





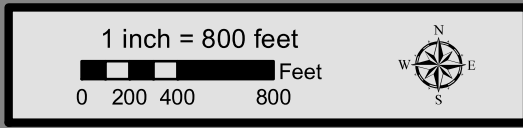
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 239 of 257**

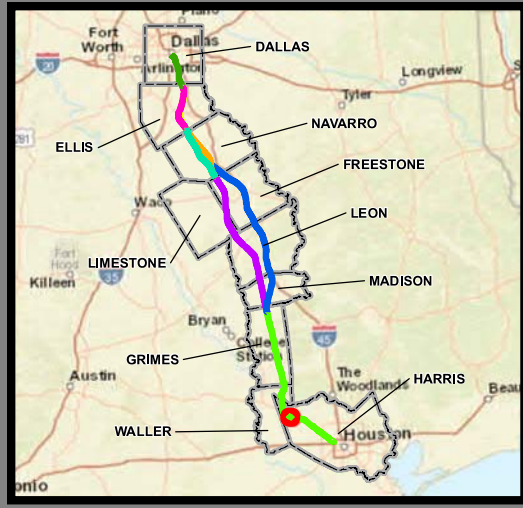
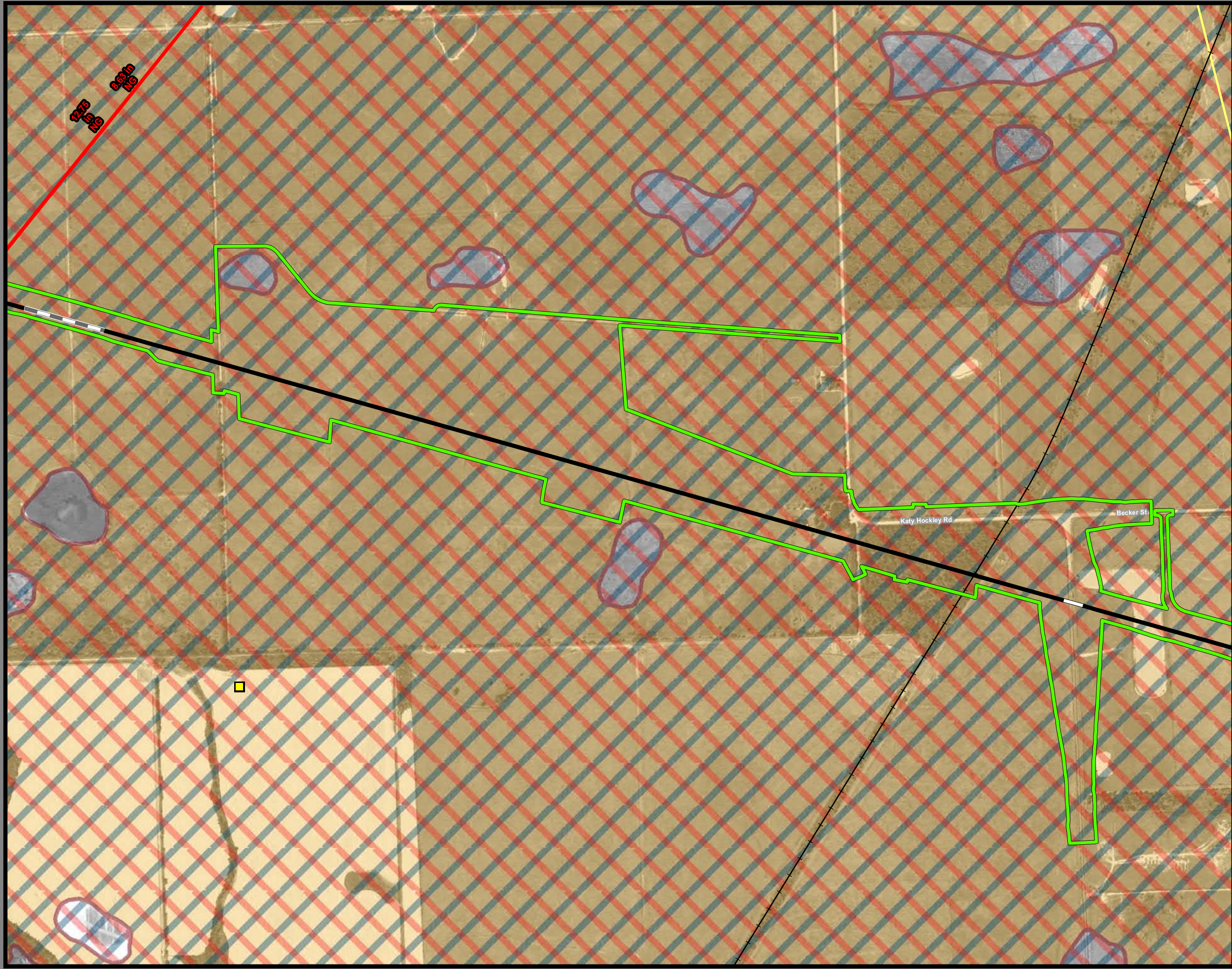
**Legend**

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

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

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





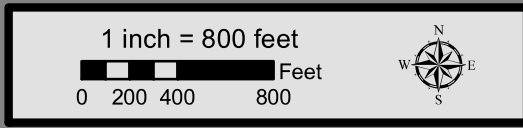
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 240 of 257**

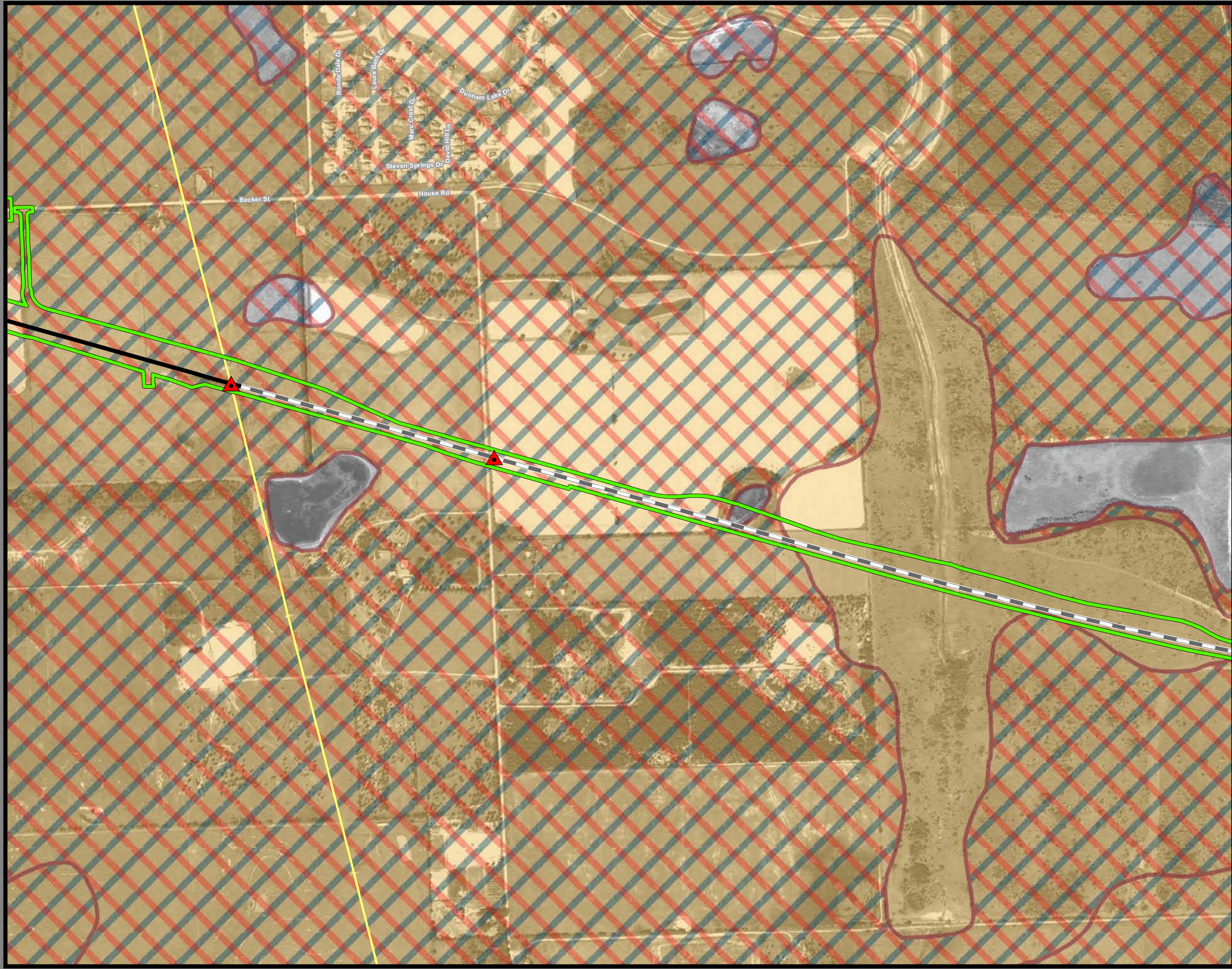
**Legend**

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

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

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





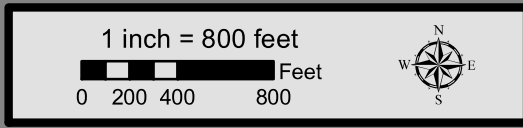
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 241 of 257**

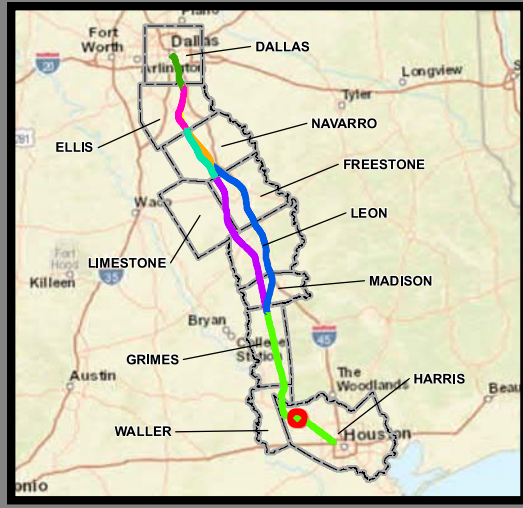
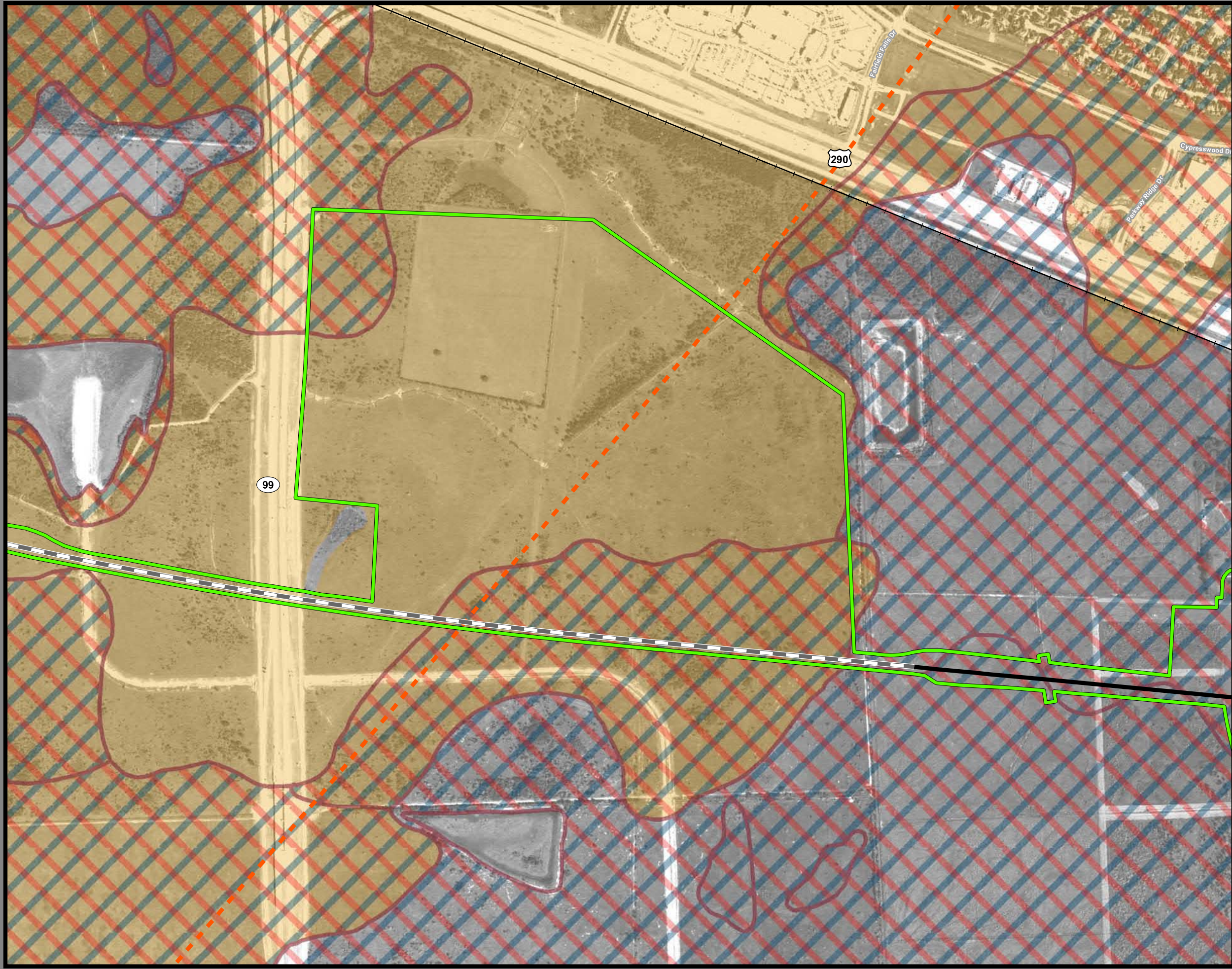
**Legend**

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

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

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





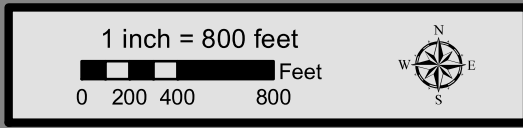
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 242 of 257**

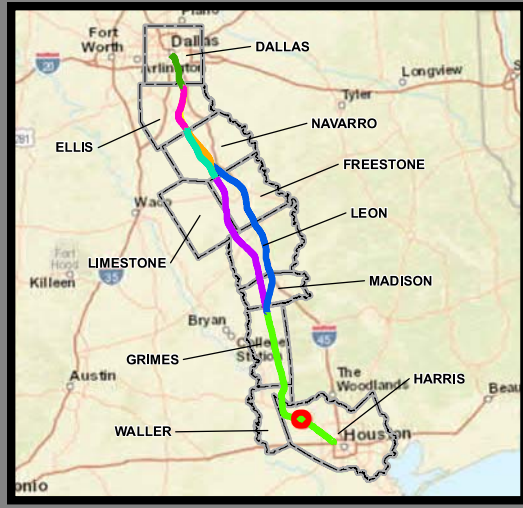
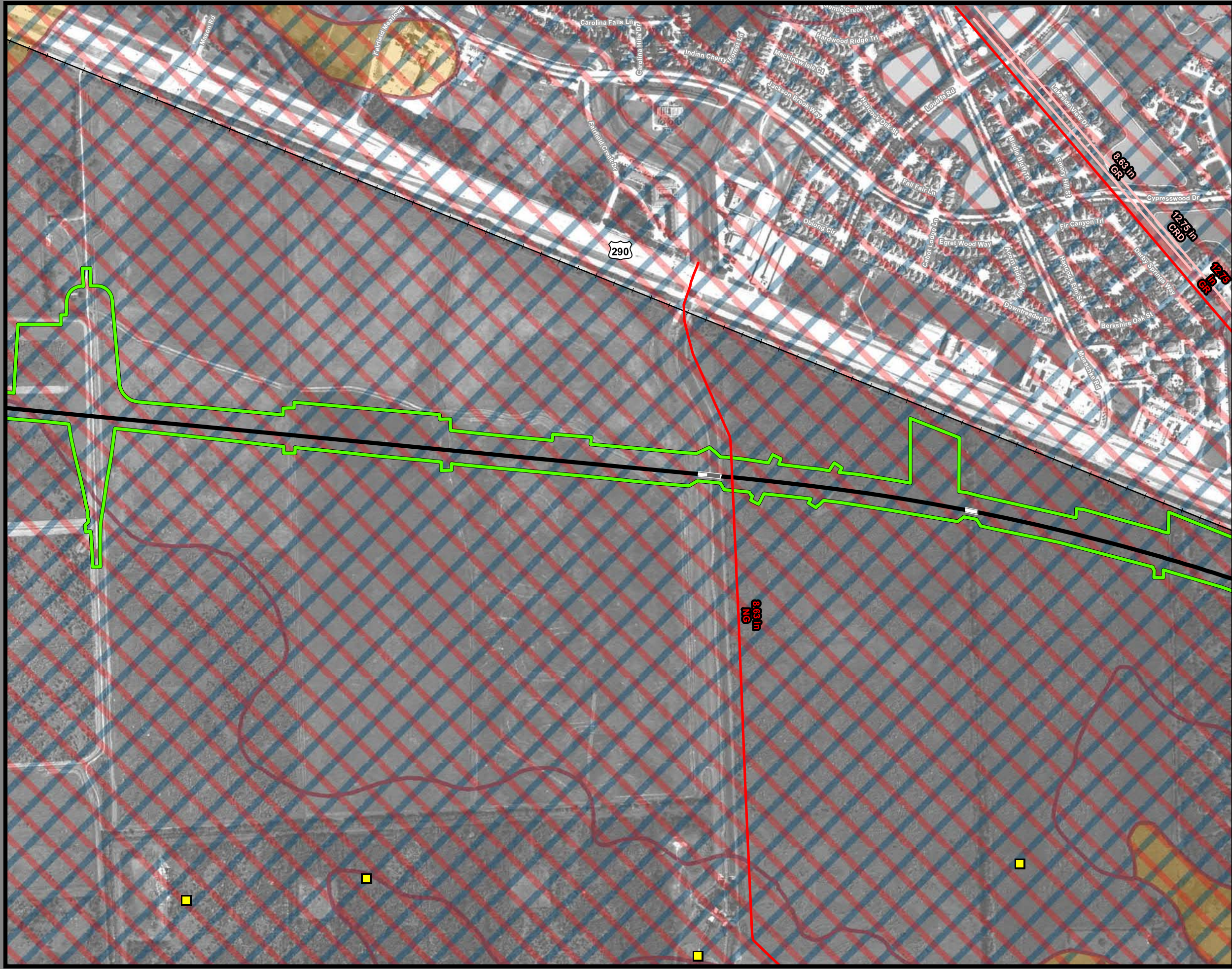
**Legend**

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

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

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





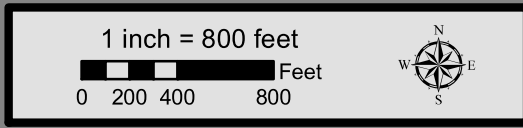
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 243 of 257**

**Legend**

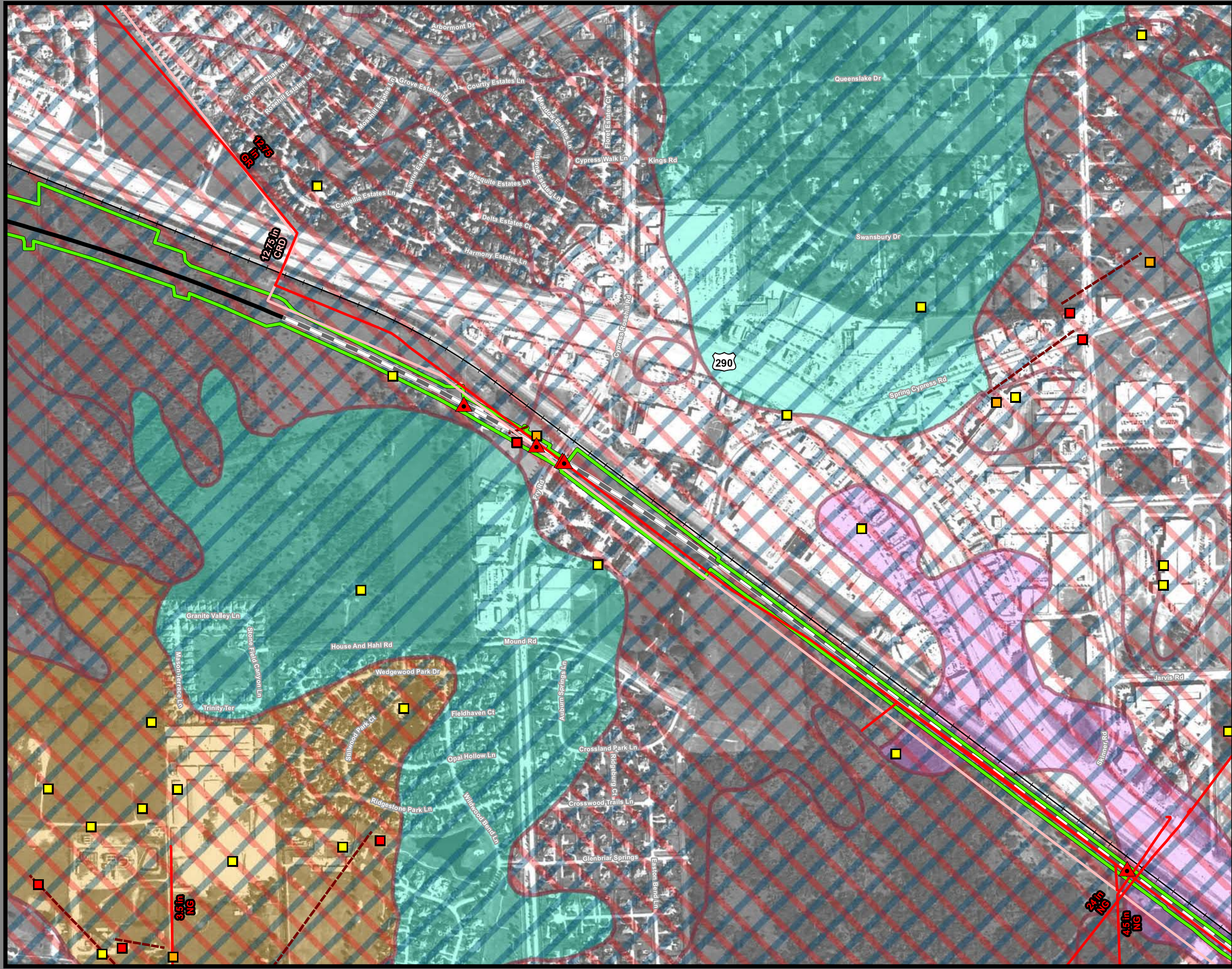
|                              |                                  |
|------------------------------|----------------------------------|
| <b>Limits of Disturbance</b> | <b>Utilities</b>                 |
| Segment 1                    | Mine                             |
| Segment 2A                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

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

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







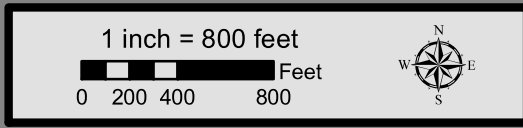
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 244 of 257**

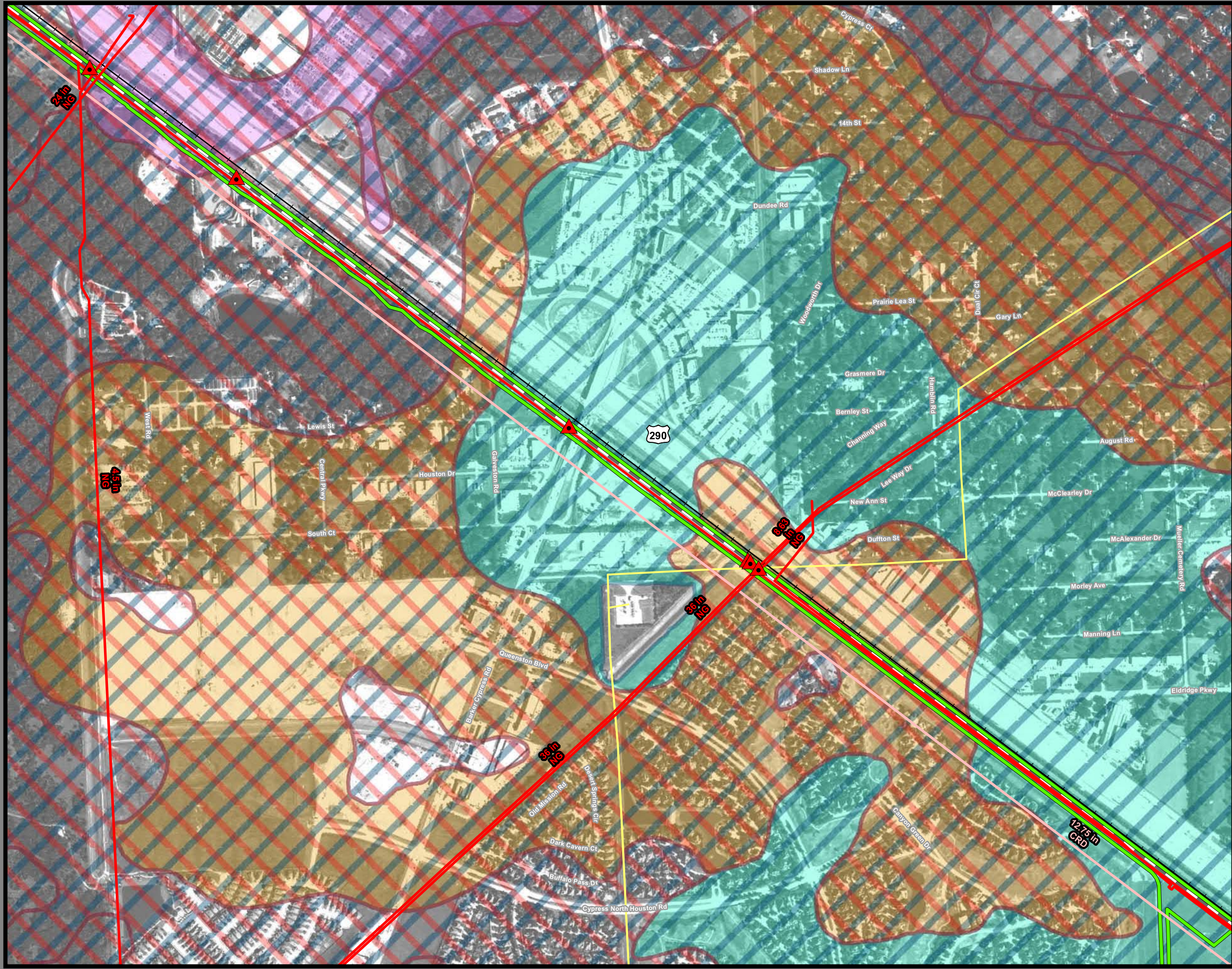
**Legend**

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

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

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





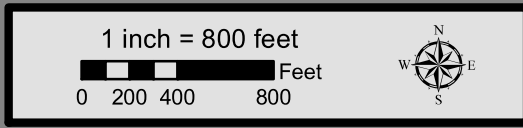
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 245 of 257**

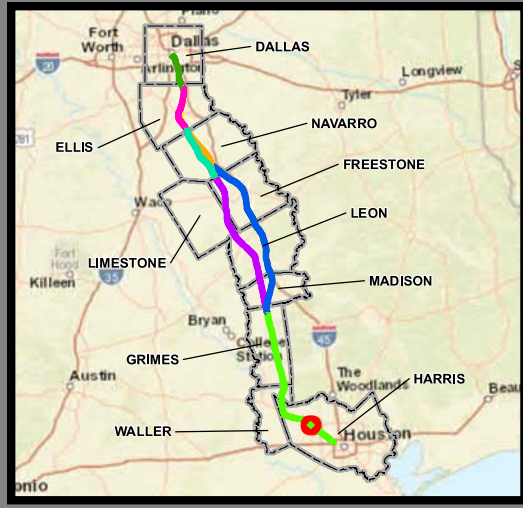
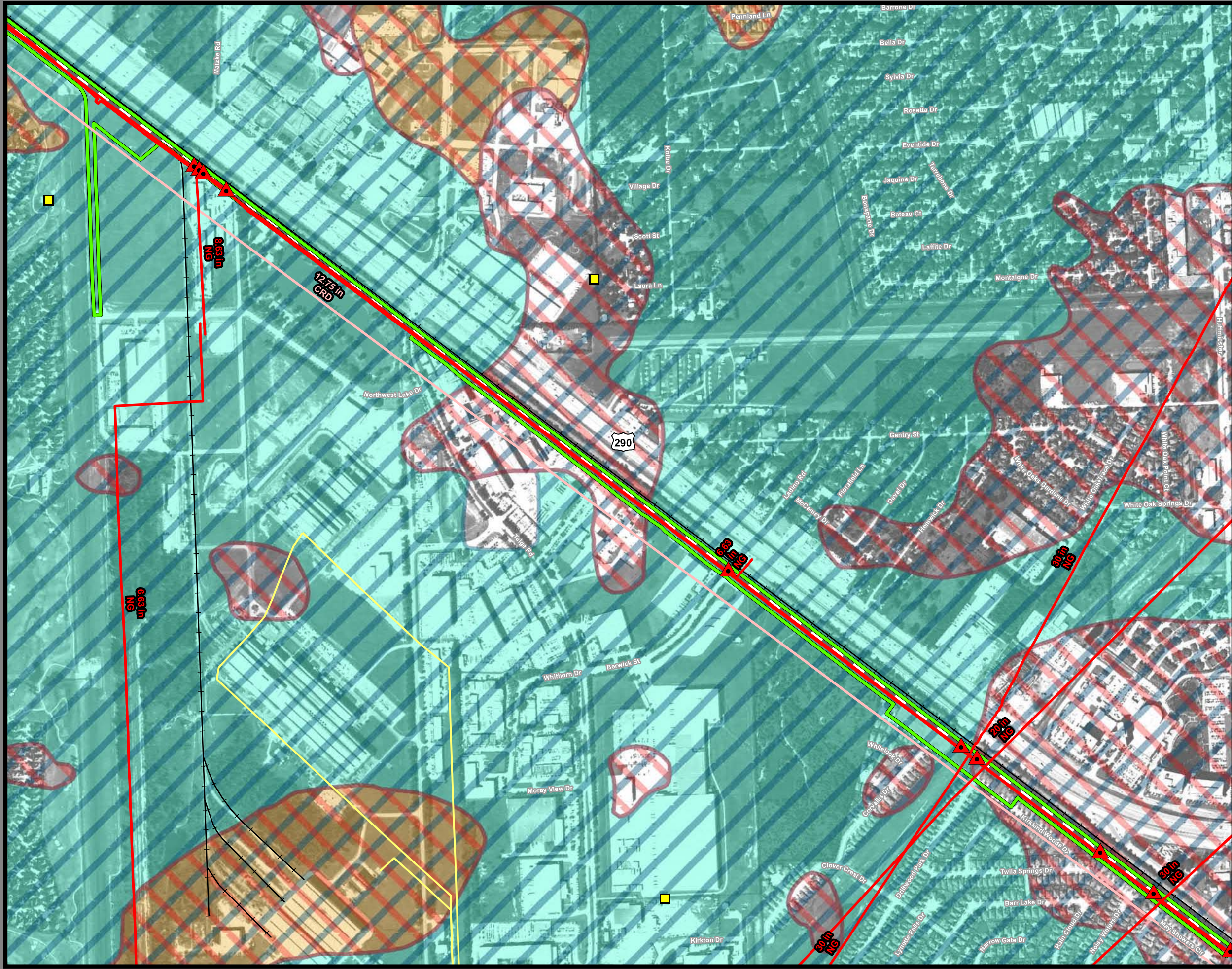
**Legend**

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

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

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





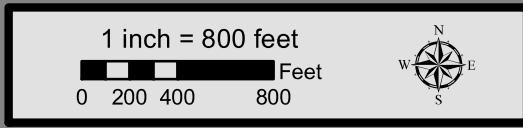
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 246 of 257**

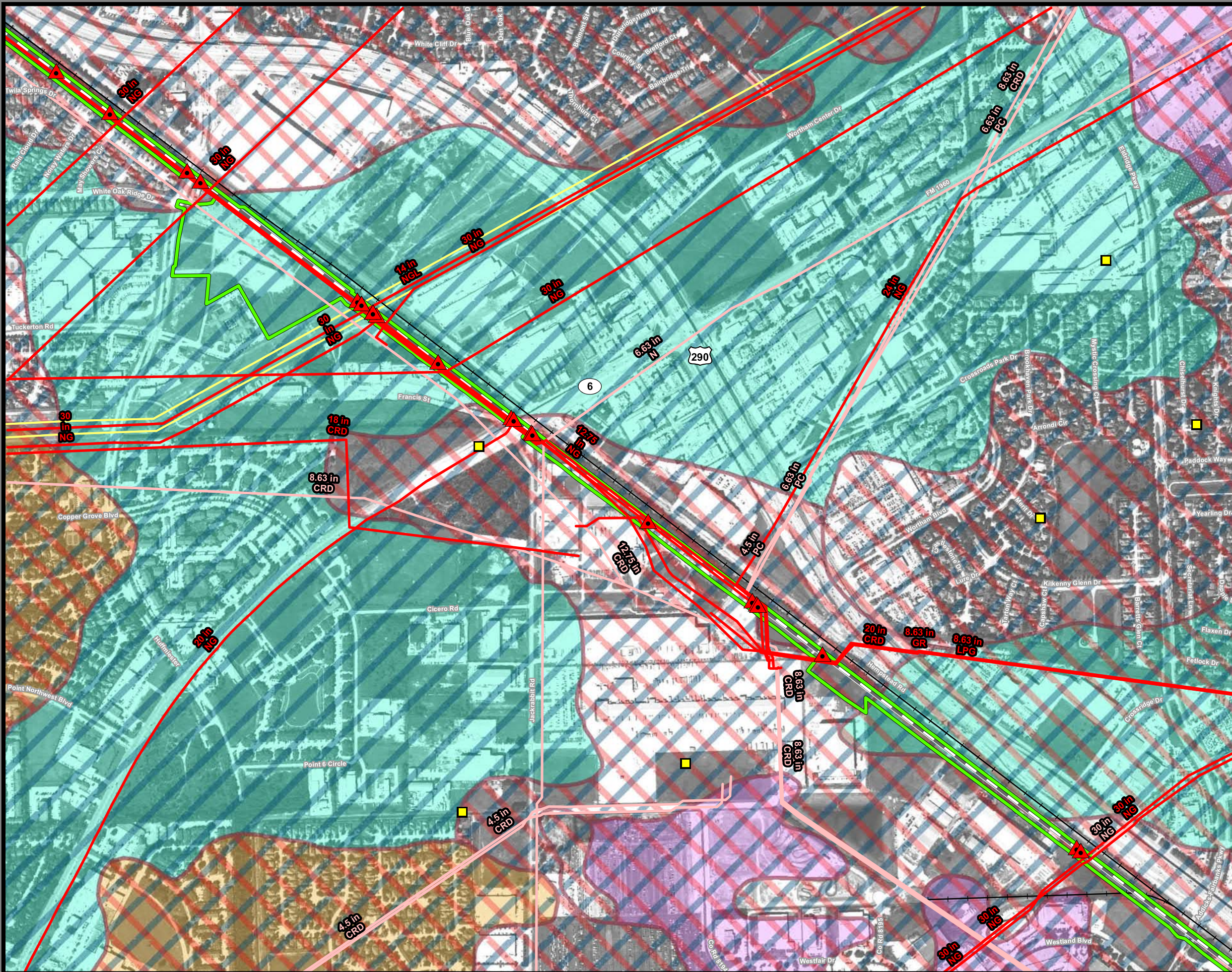
**Legend**

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

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

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





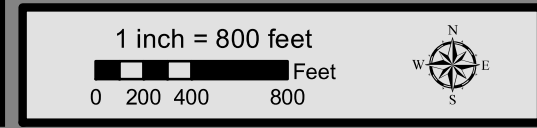
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 247 of 257**

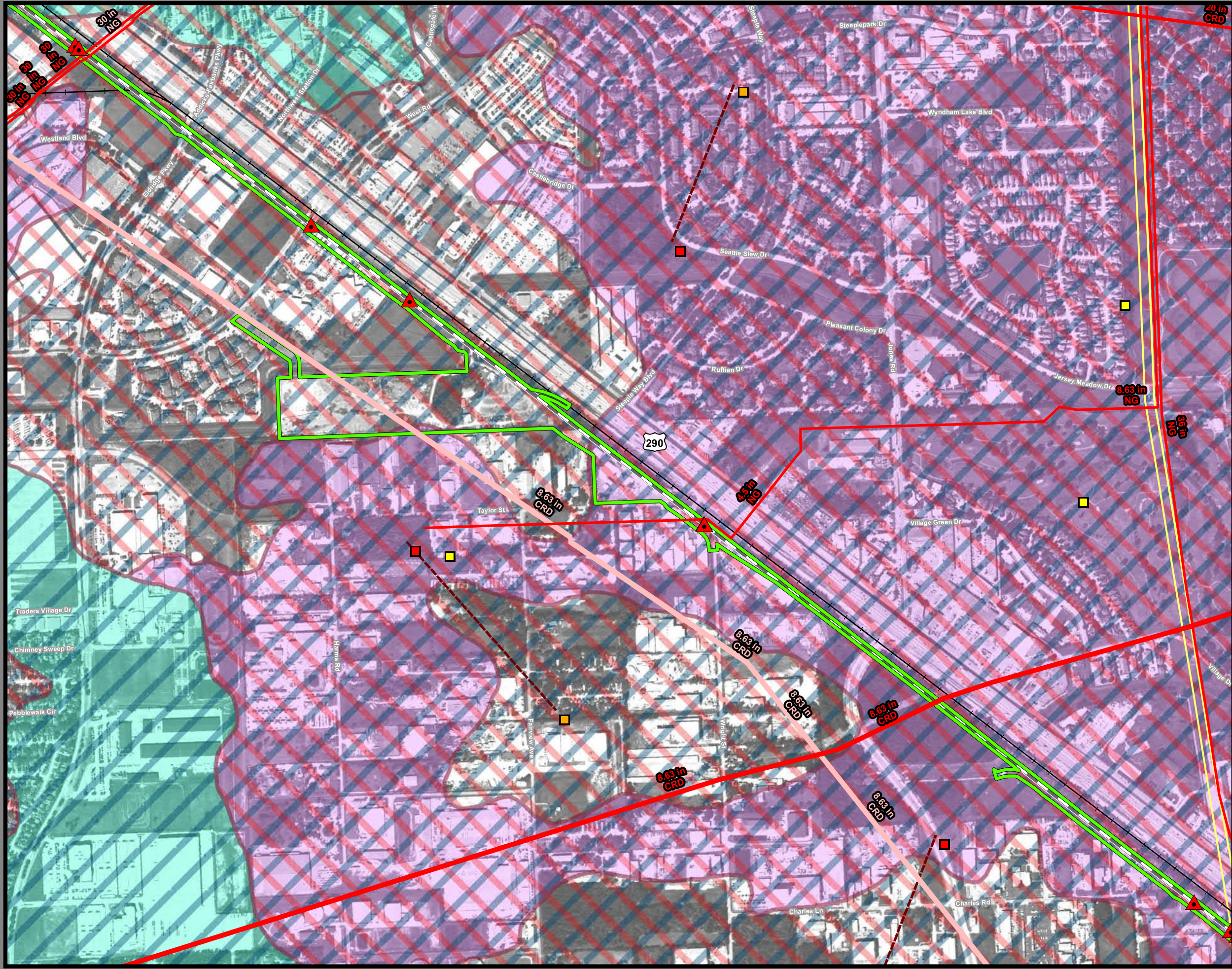
**Legend**

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

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

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





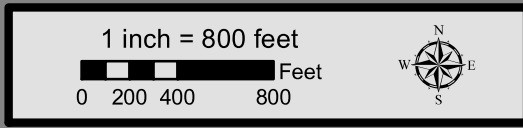
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 248 of 257**

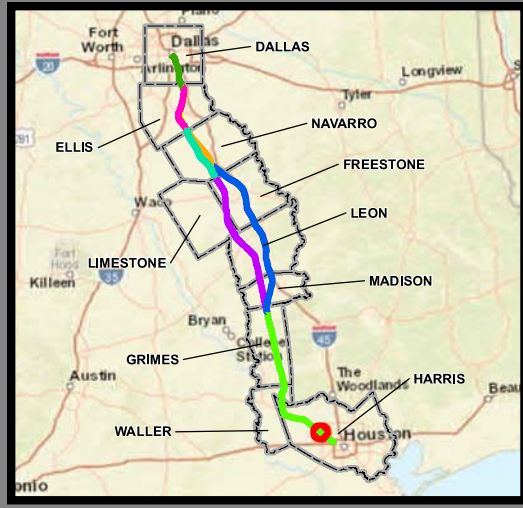
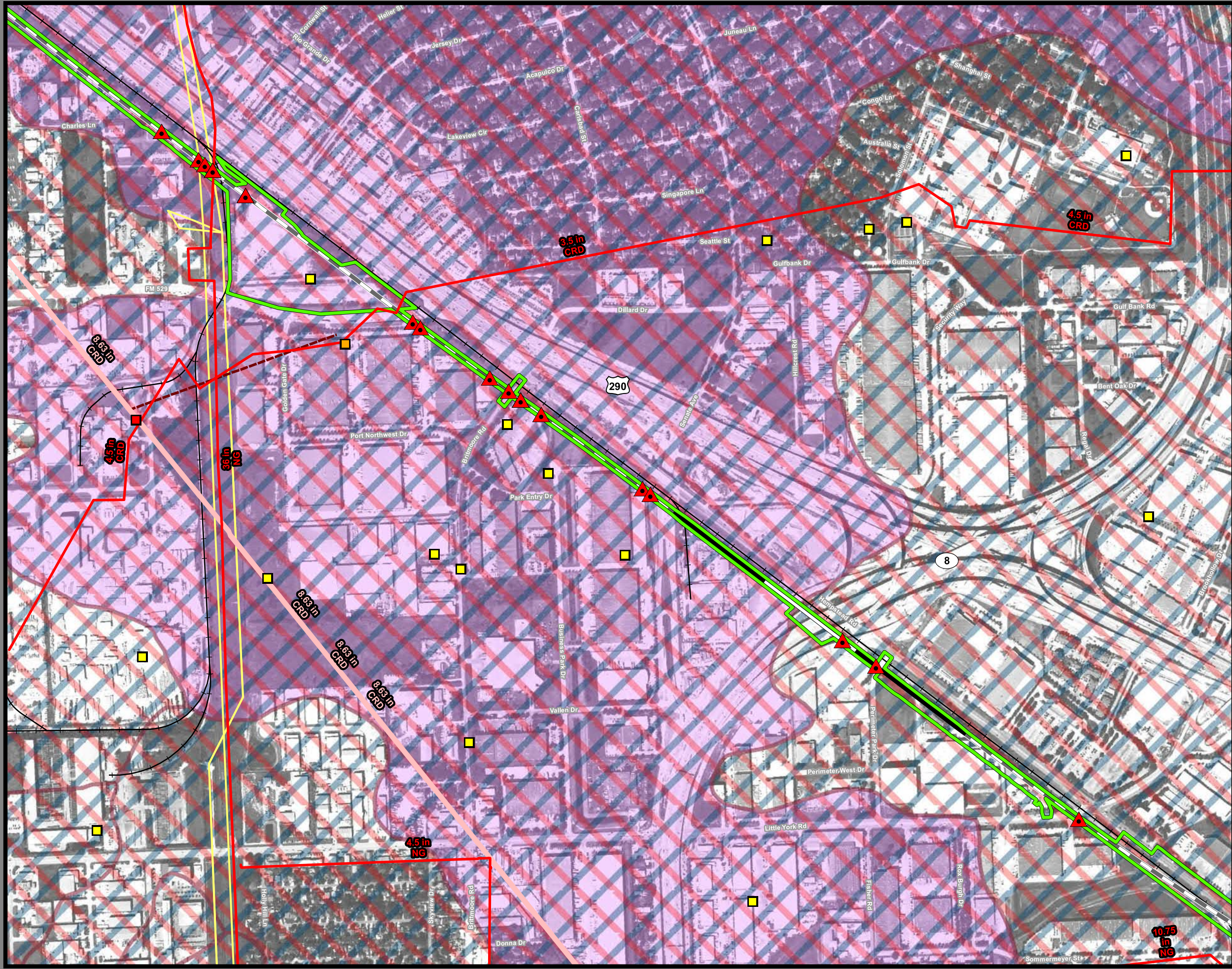
**Legend**

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

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

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





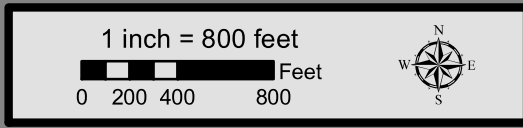
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 249 of 257**

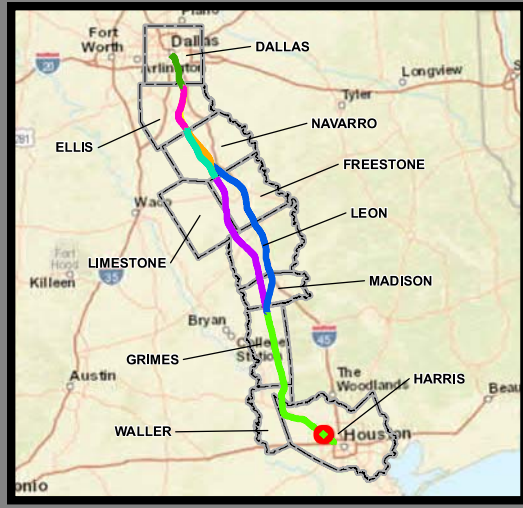
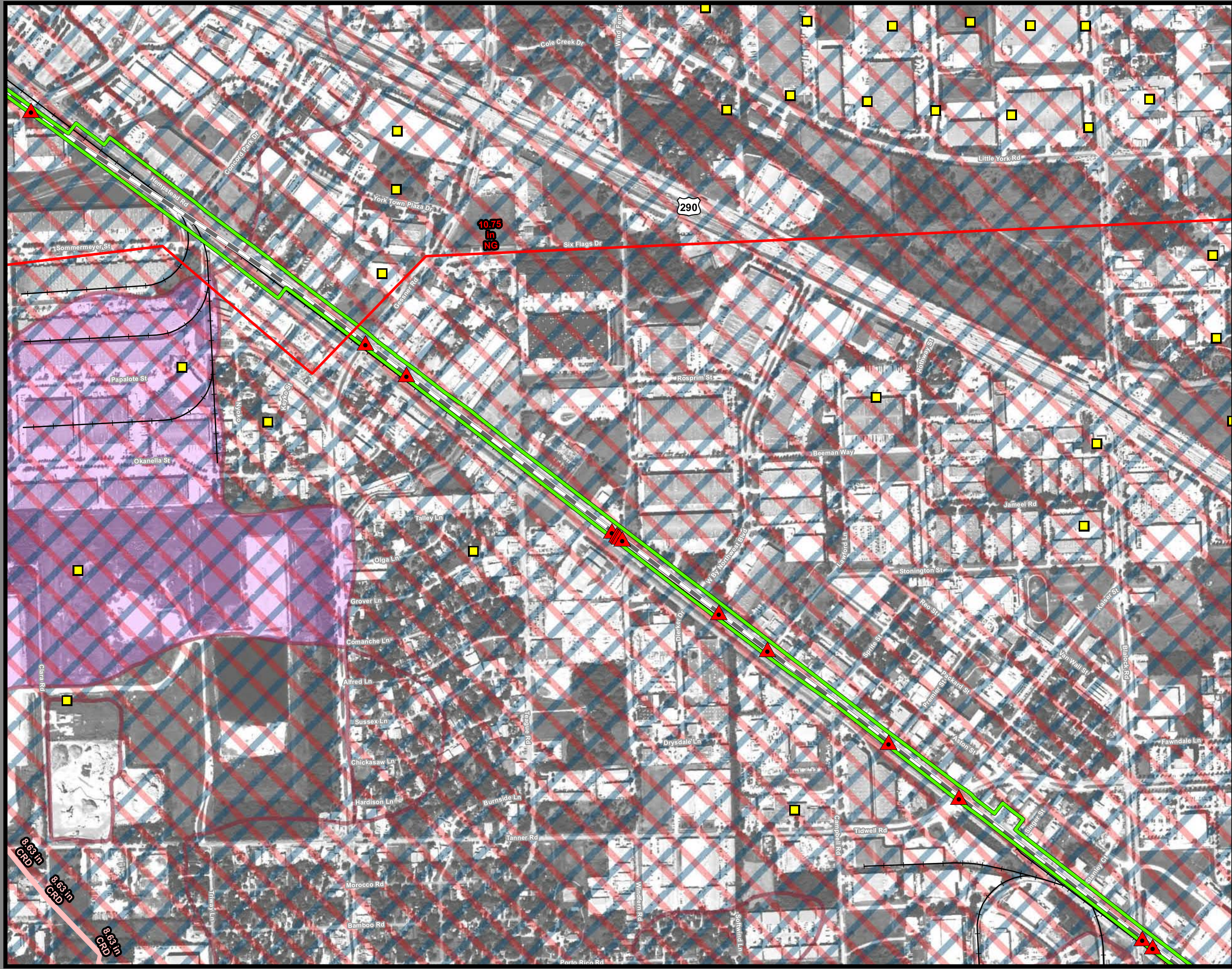
**Legend**

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

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

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





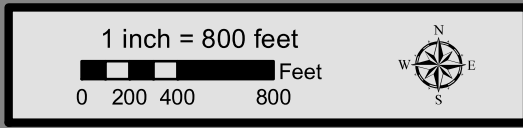
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 250 of 257**

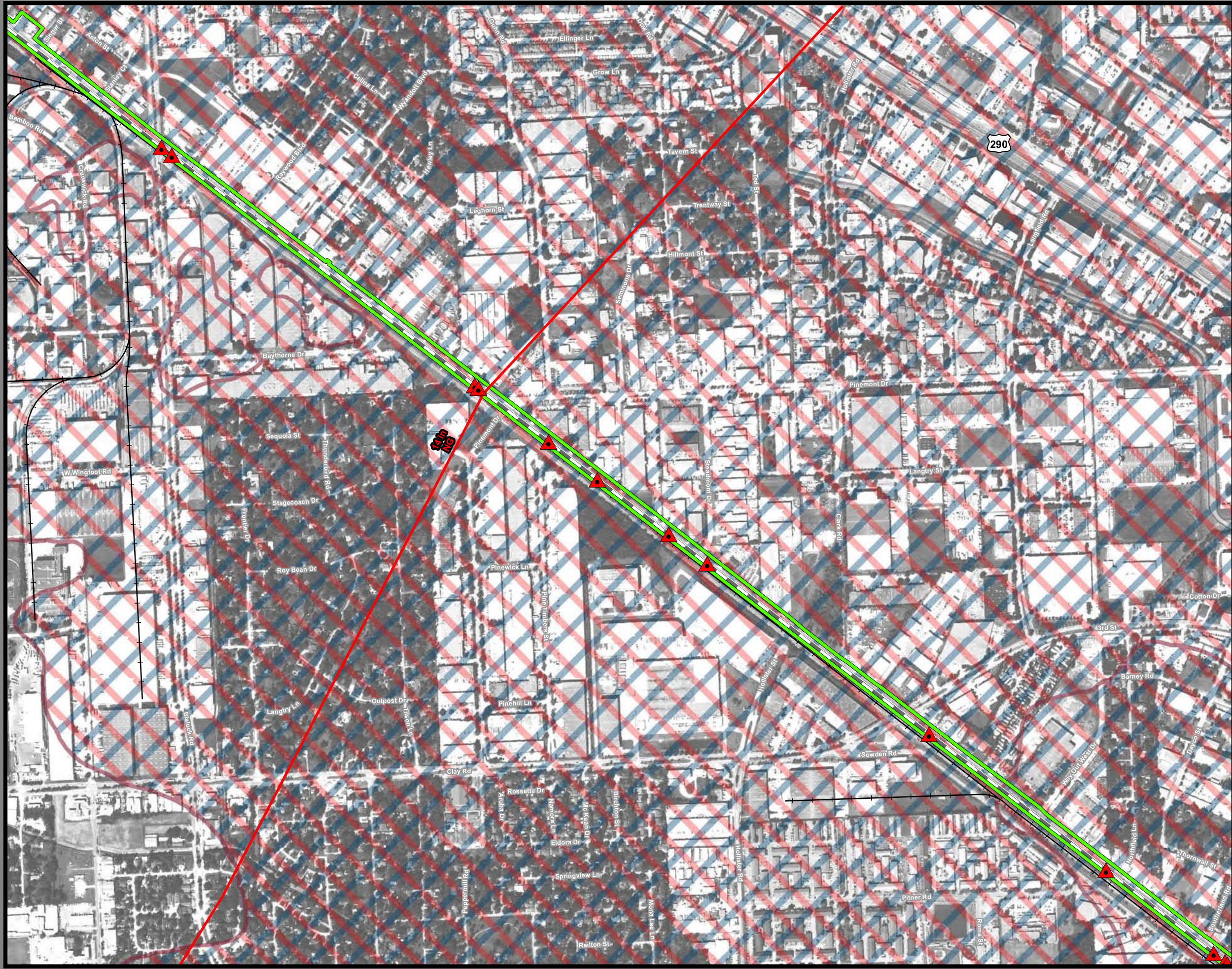
**Legend**

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

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

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





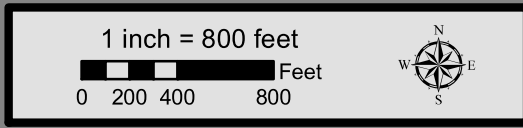
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5  
Sheet 251 of 257**

**Legend**

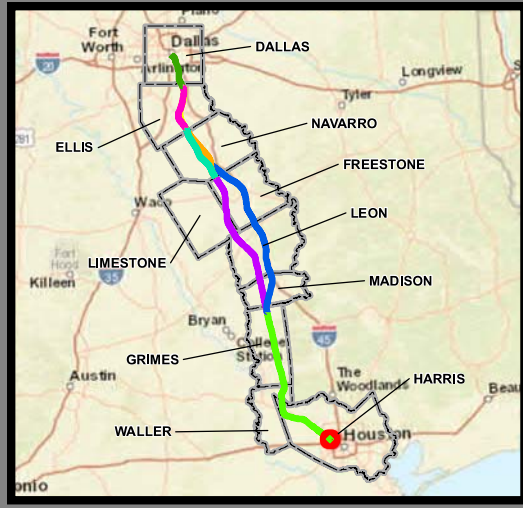
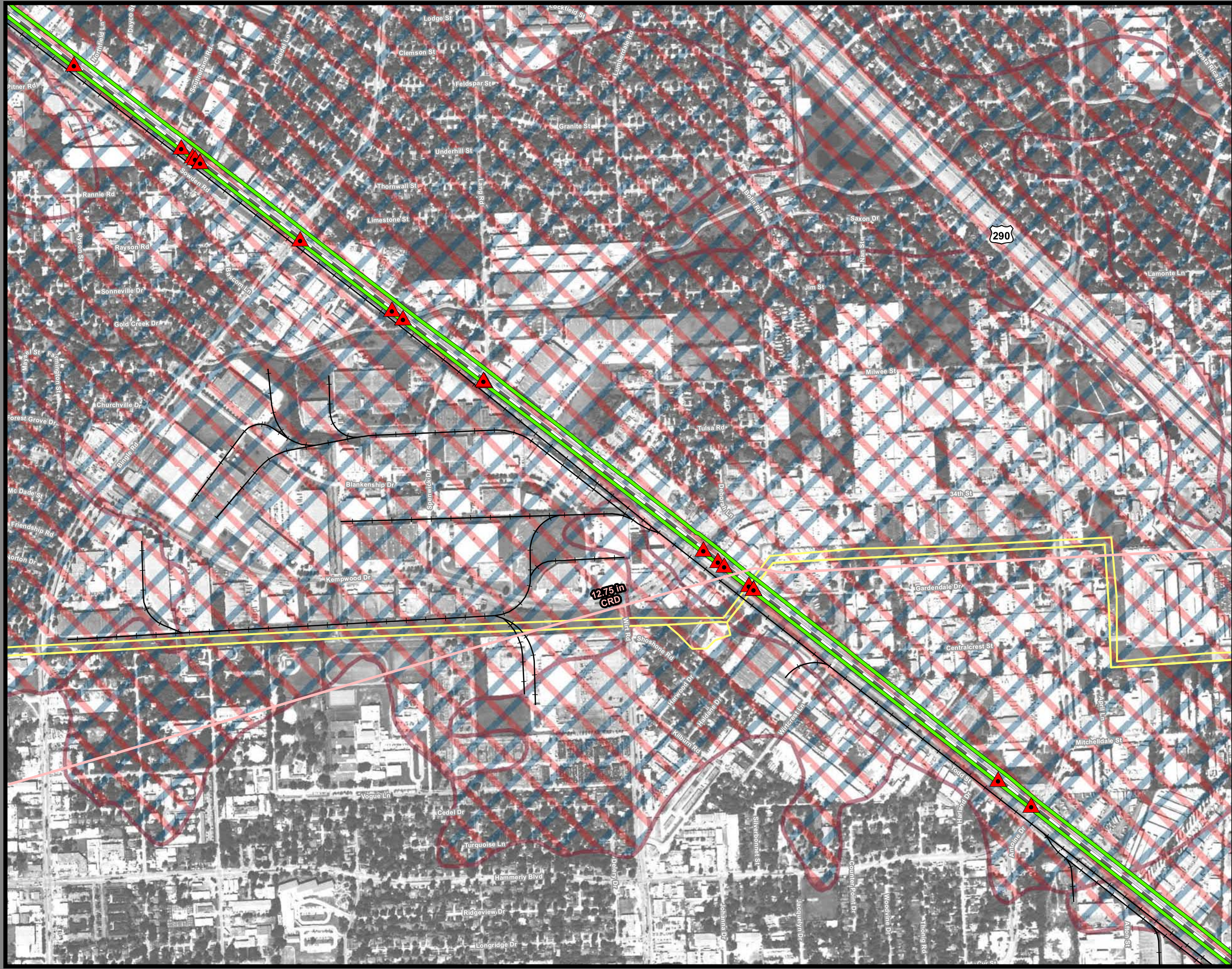
|                              |                                  |
|------------------------------|----------------------------------|
| <b>Limits of Disturbance</b> | <b>Utilities</b>                 |
| Segment 1                    | Mine                             |
| Segment 2A                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

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

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







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

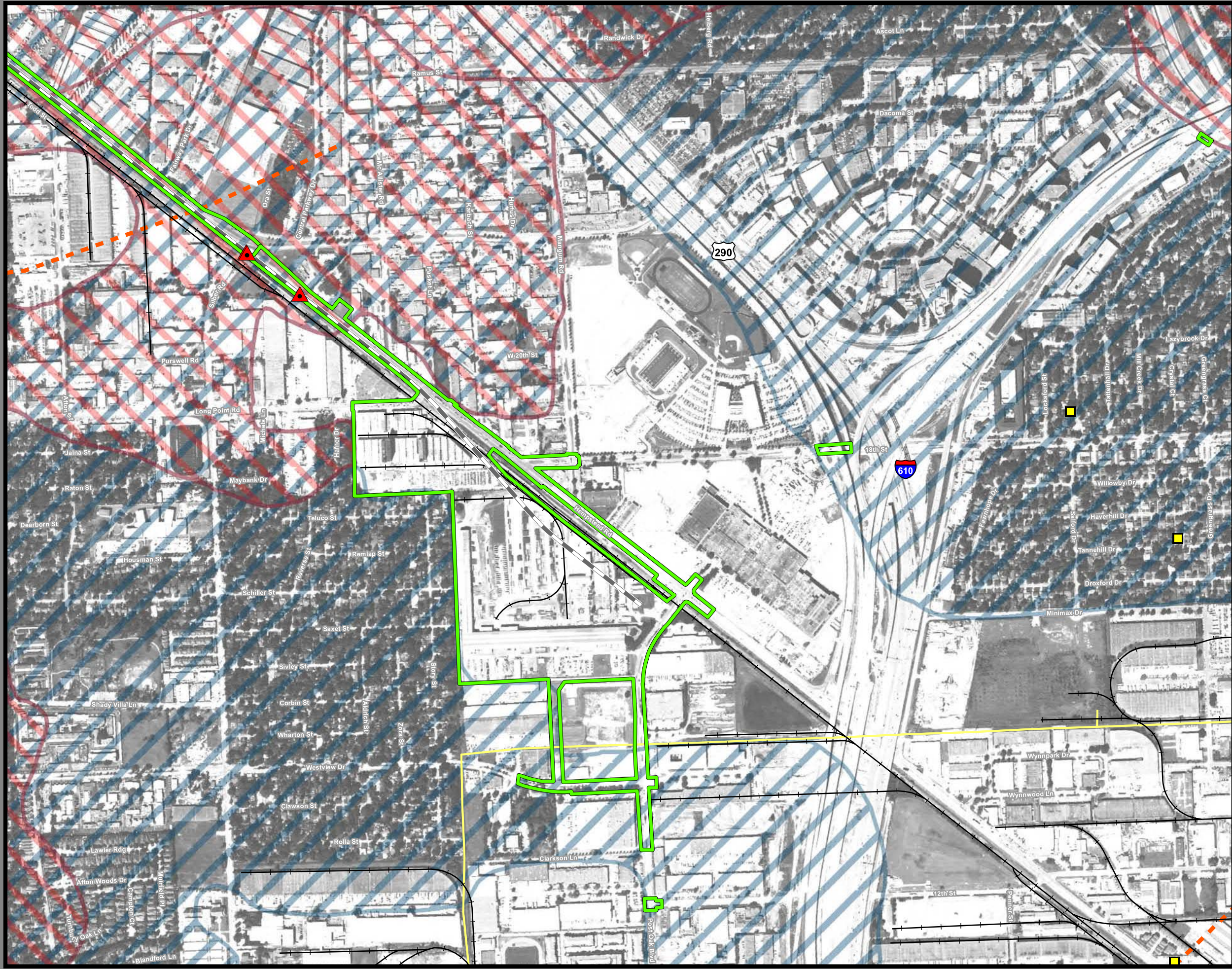
**Legend**

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

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

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





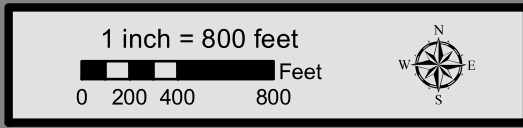
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5, Industrial Site Terminal Option  
Sheet 253 of 257**

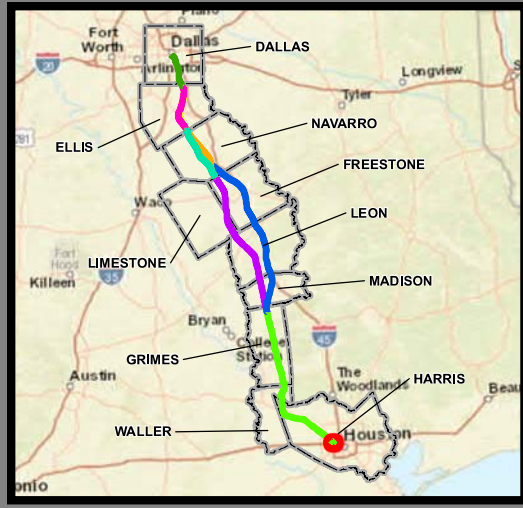
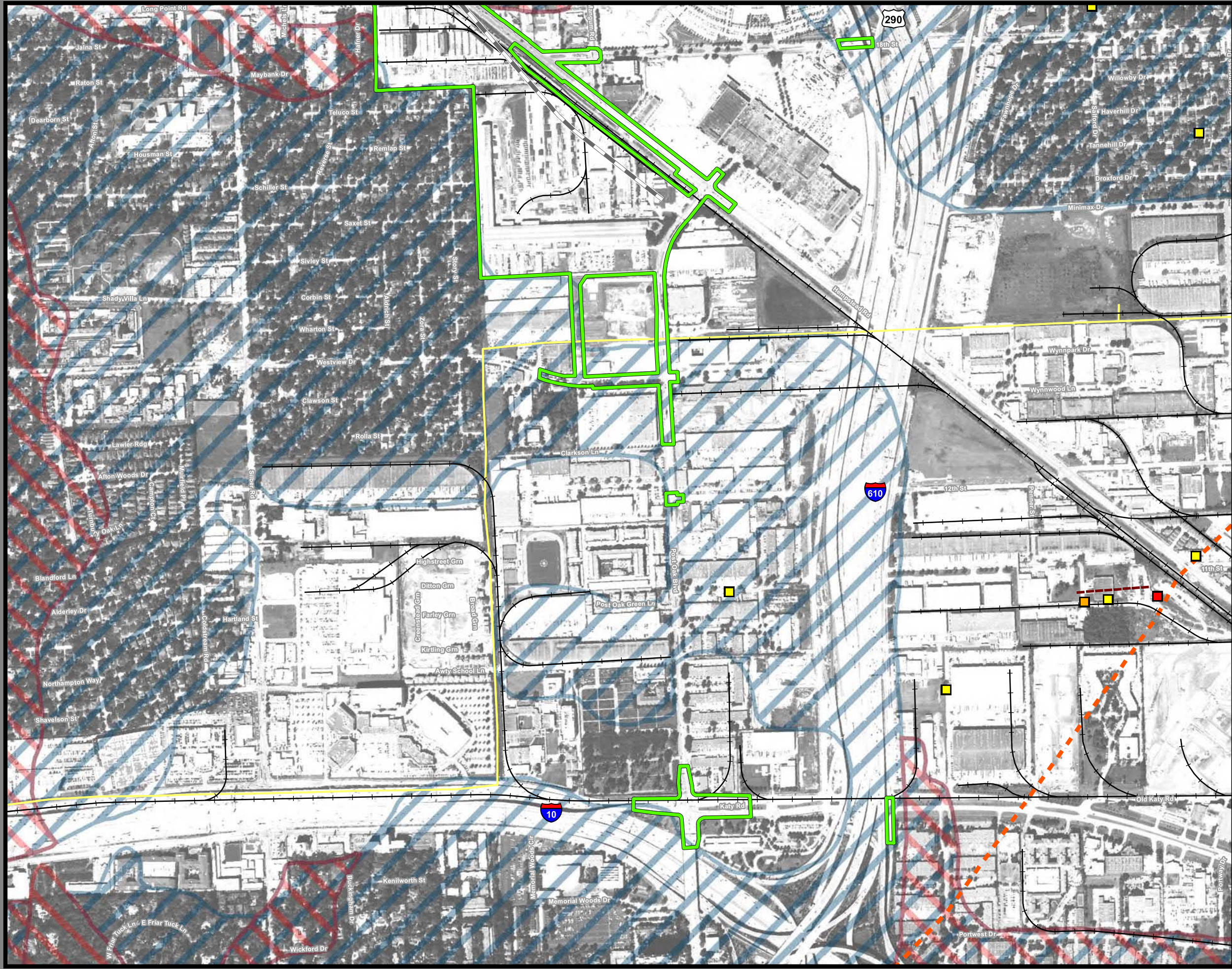
**Legend**

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

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

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





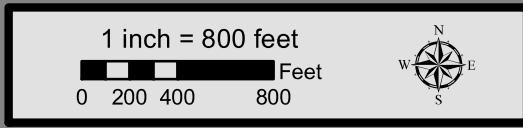
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5, Industrial Site Terminal Option  
Sheet 254 of 257**

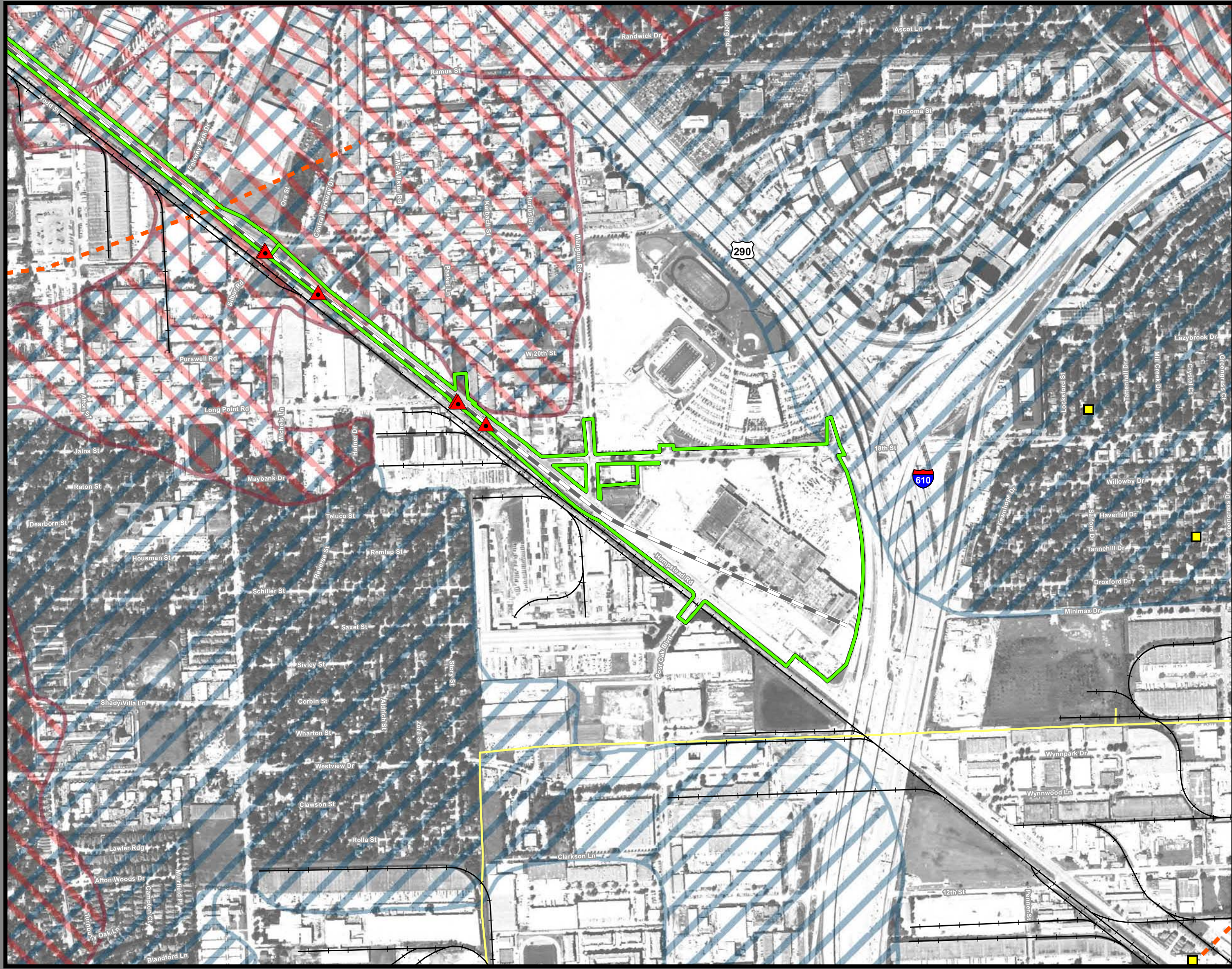
**Legend**

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

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

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





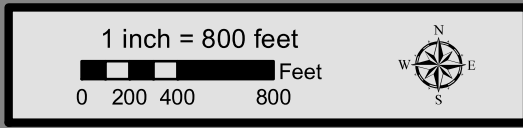
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5, Northwest Mall Terminal Option  
Sheet 255 of 257**

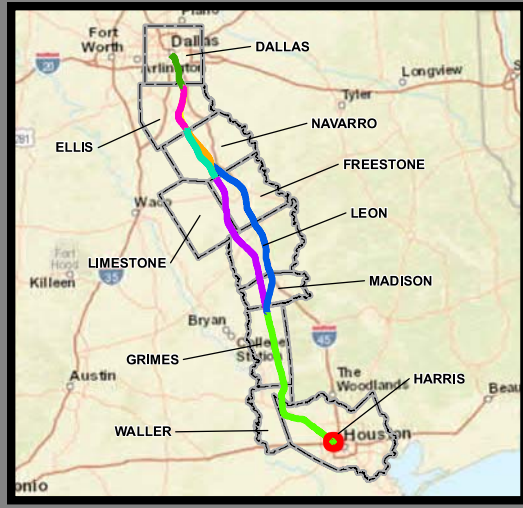
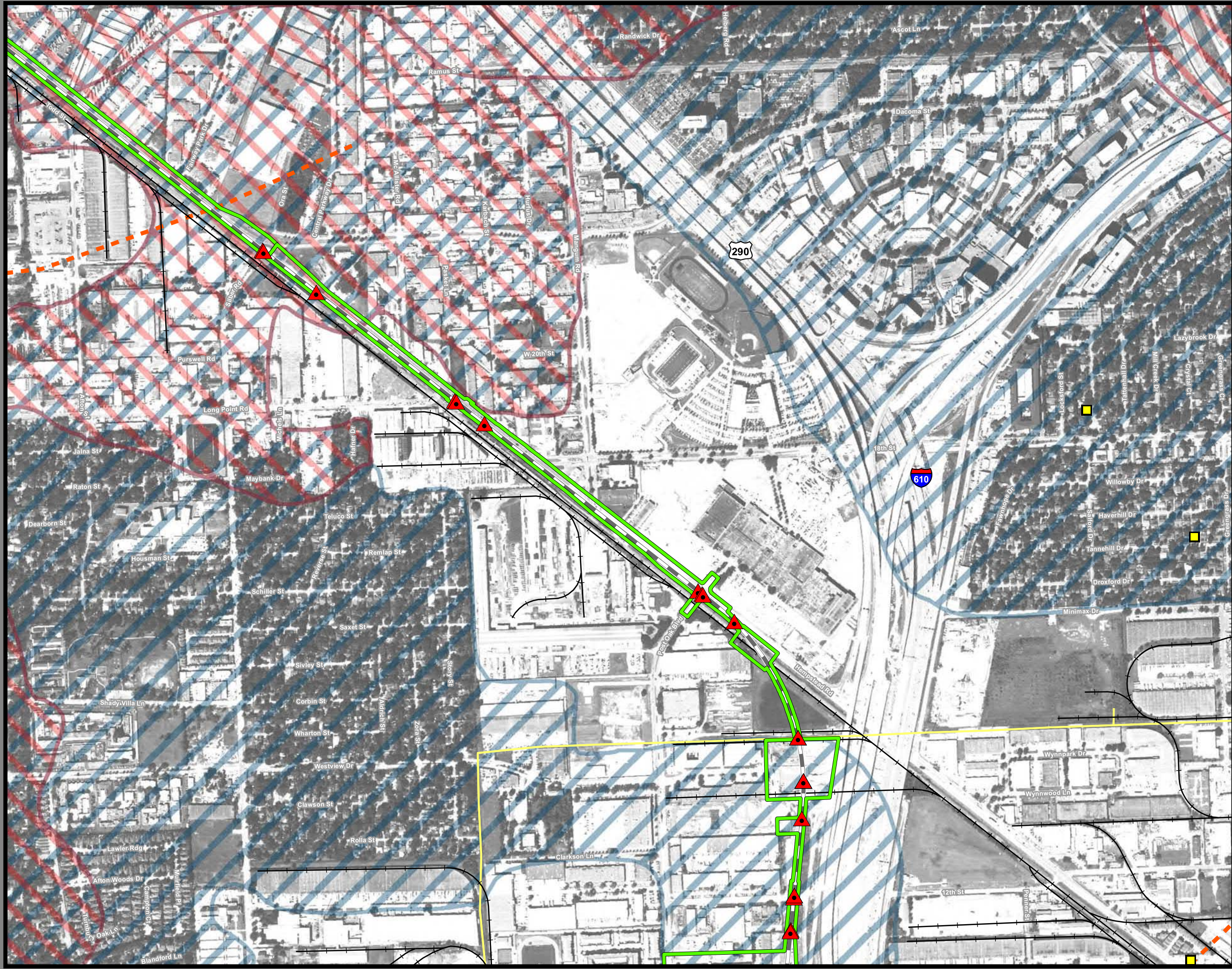
**Legend**

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

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

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





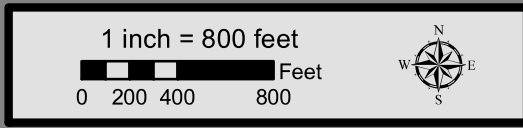
**Dallas to Houston  
High-Speed Rail Project  
Mineral and Utility Resources  
Segment 5, Northwest Transit Center Terminal Option  
Sheet 256 of 257**

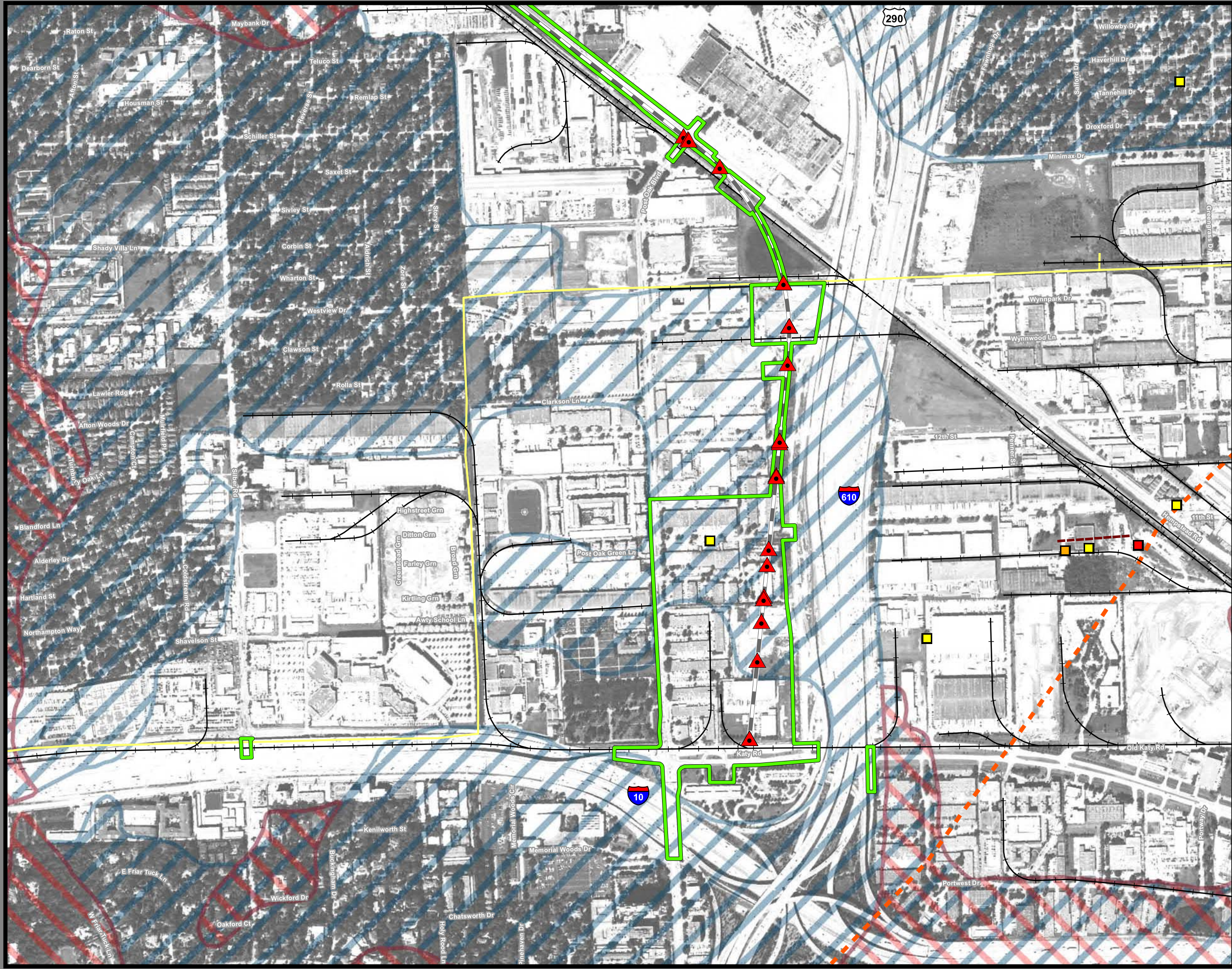
**Legend**

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

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

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





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

**Legend**

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

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

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

