

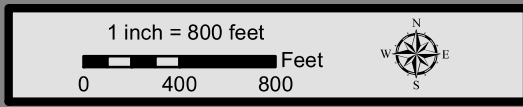
**Dallas to Houston
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Natural Resources
Segment 4
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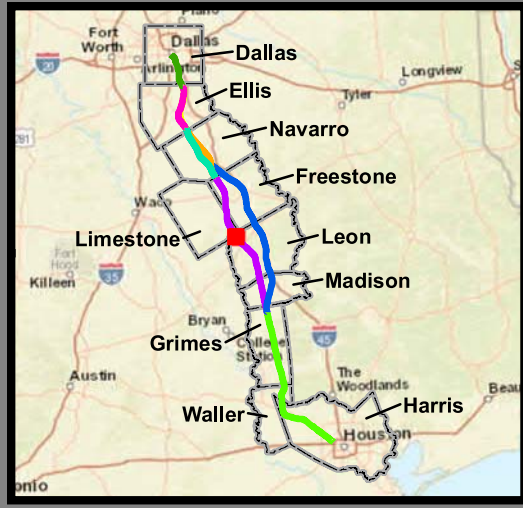
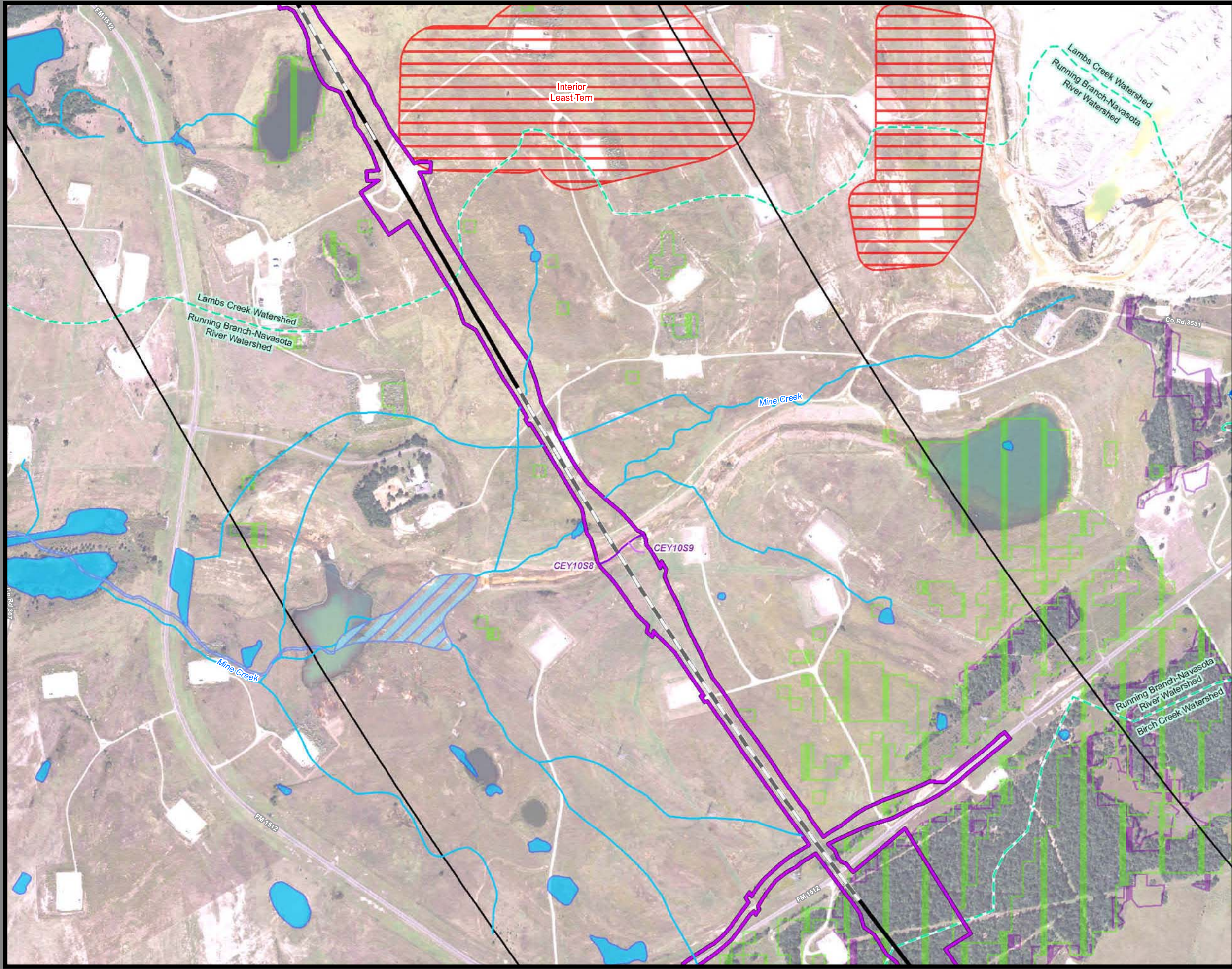
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<p>Limits of Disturbance</p> <ul style="list-style-type: none"> Segment 1 Segment 2A Segment 2B Segment 3A Segment 3B Segment 3C Segment 4 Segment 5 <p>Track Configuration</p> <ul style="list-style-type: none"> Viaduct Embankment Cut Half Mile Buffer City Boundary County Boundary Railroad Municipal Setting Designation (MSD) <p>Potential Habitat</p> <ul style="list-style-type: none"> Houston Toad Large-fruited Sand Verbena Navasota Ladies'-tresses Endangered Species Threatened Species U.S. Army Corps of Engineers (USACE) Project Area Watershed (HUC 12) Boundary Public Water Supply Groundwater Well 	<ul style="list-style-type: none"> Impaired Waters with Total Maximum Daily Load (TMDL) Impaired Waters <p>Federal Emergency Management Agency (FEMA) Flood Zone</p> <ul style="list-style-type: none"> A - 1% AE - 1% AO - 1% X - 0.2% <p>Field-Collected Data</p> <ul style="list-style-type: none"> Perennial Stream/River Intermittent Stream/River Ephemeral Stream/River Other Stream/River Lake/Pond Emergent Wetland Forested Wetland Scrub/Shrub Wetland <p>National Hydrography Dataset (NHD)</p> <ul style="list-style-type: none"> Perennial Stream/River Intermittent Stream/River Artificial Stream/Canal Lake/Pond Reservoir Swamp/Marsh <p>National Wetlands Inventory (NWI)</p> <ul style="list-style-type: none"> Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Other
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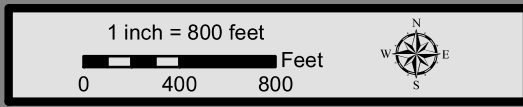
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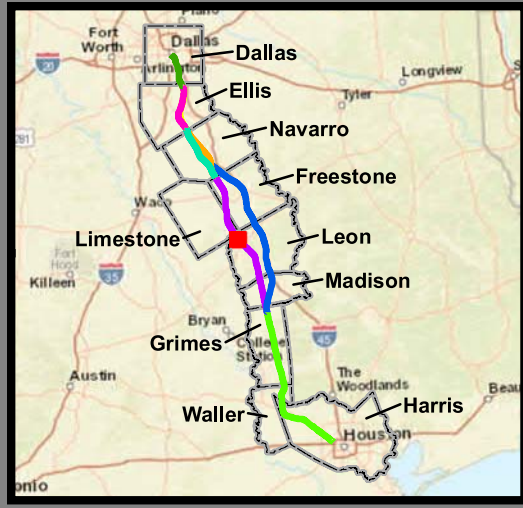
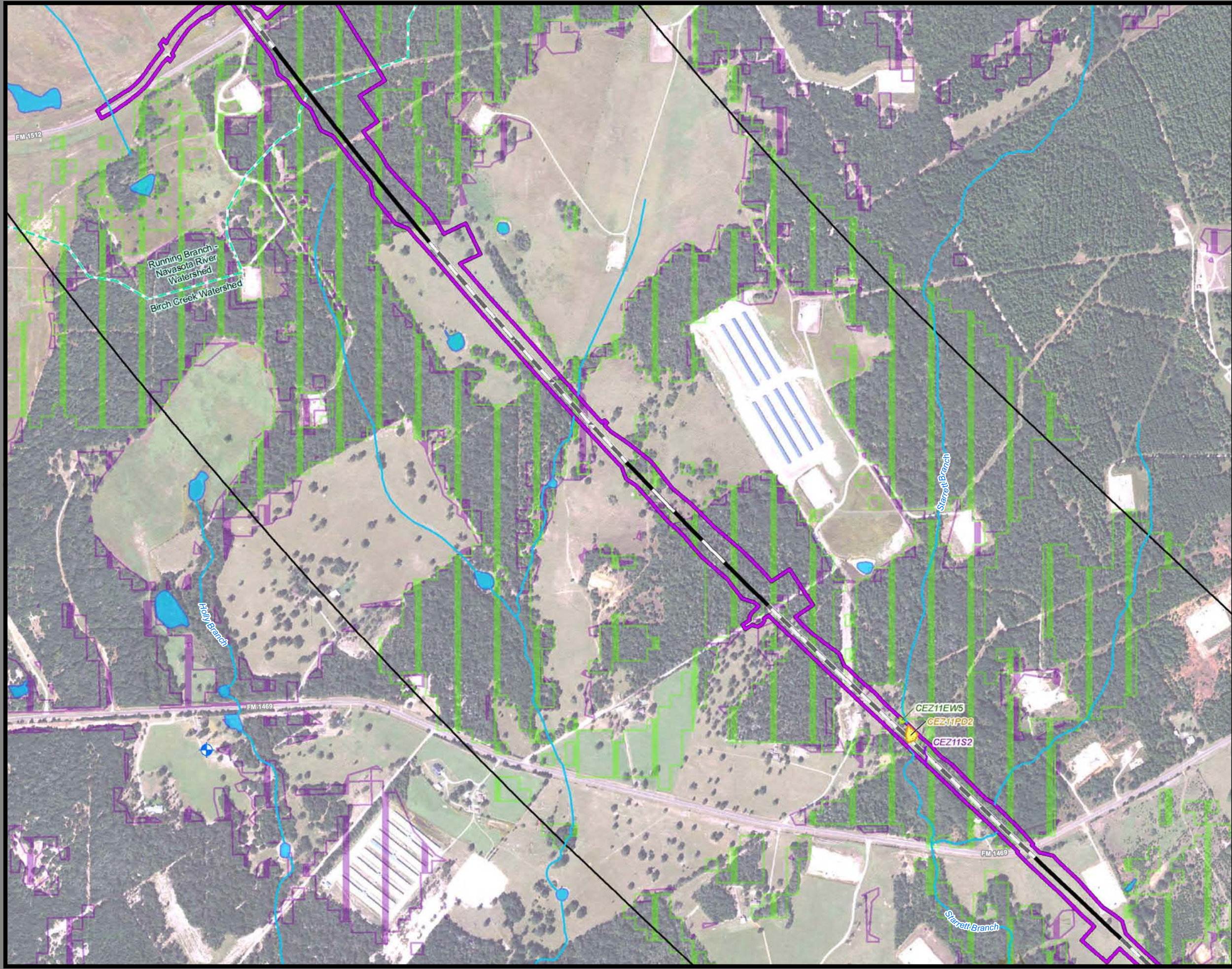
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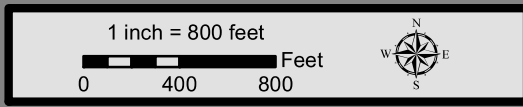
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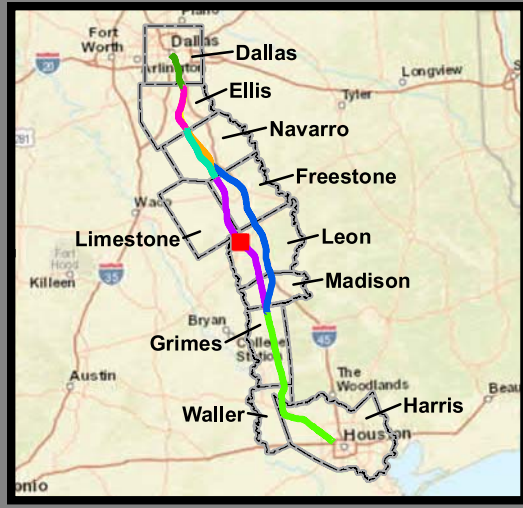
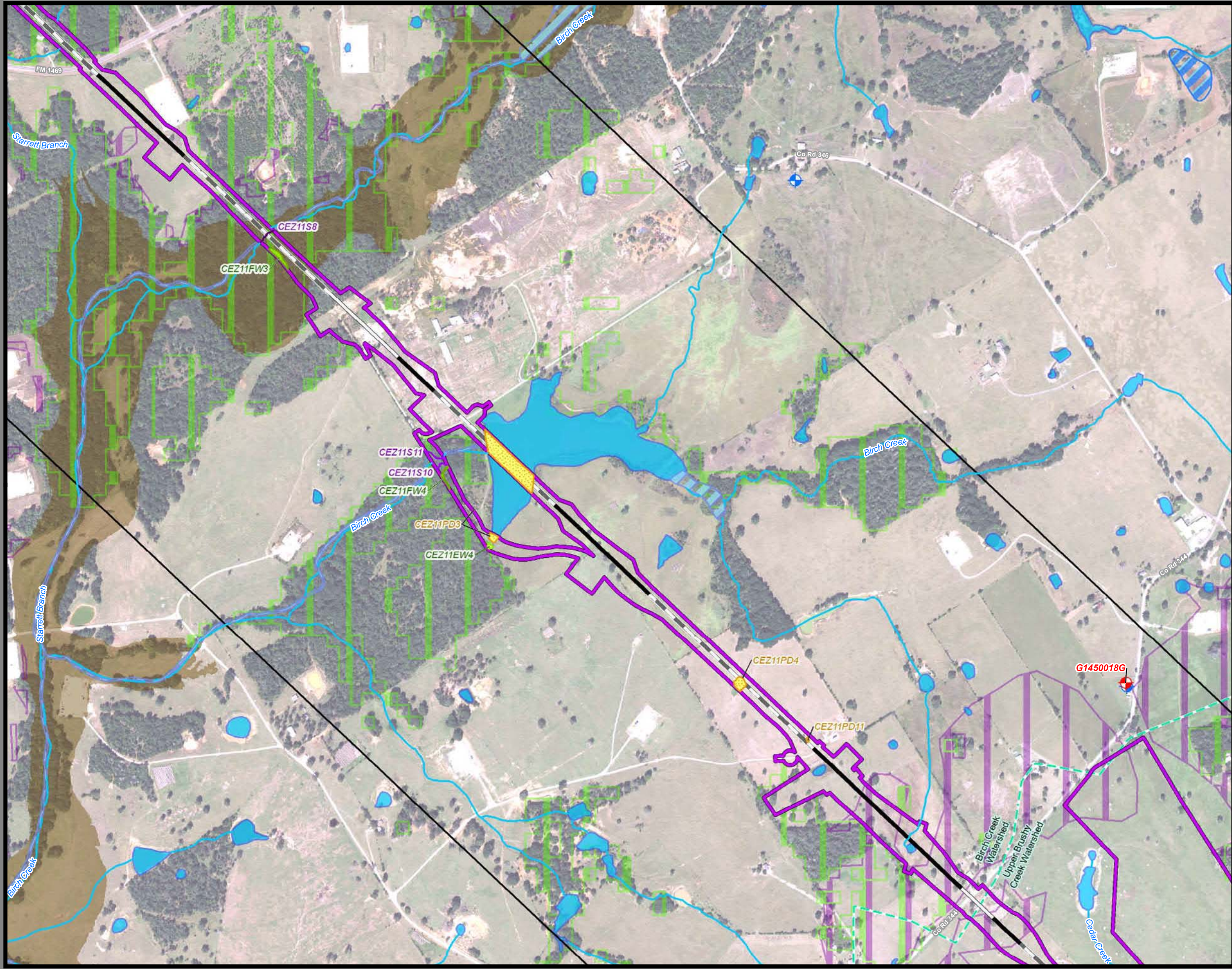
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Limits of Disturbance	Impaired Waters with Total Maximum Daily Load (TMDL)
Segment 1	Impaired Waters
Segment 2A	Federal Emergency Management Agency (FEMA) Flood Zone
Segment 2B	A - 1%
Segment 3A	AE - 1%
Segment 3B	AO - 1%
Segment 3C	X - 0.2%
Segment 4	Field-Collected Data
Segment 5	Perennial Stream/River
Track Configuration	Intermittent Stream/River
Viaduct	Ephemeral Stream/River
Embankment	Other Stream/River
Cut	Lake/Pond
Half Mile Buffer	Emergent Wetland
City Boundary	Forested Wetland
County Boundary	Scrub/Shrub Wetland
Railroad	National Hydrography Dataset (NHD)
Municipal Setting Designation (MSD)	Perennial Stream/River
Potential Habitat	Intermittent Stream/River
Houston Toad	Artificial Stream/Canal
Large-fruited Sand Verbena	Lake/Pond
Navasota Ladies'-tresses	Reservoir
Endangered Species	Swamp/Marsh
Threatened Species	National Wetlands Inventory (NWI)
U.S. Army Corps of Engineers (USACE) Project Area	Freshwater Emergent Wetland
Watershed (HUC 12) Boundary	Freshwater Forested/Shrub Wetland
Public Water Supply	Other
Groundwater Well	

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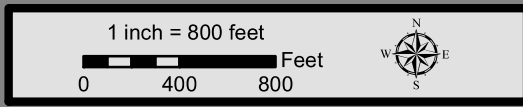


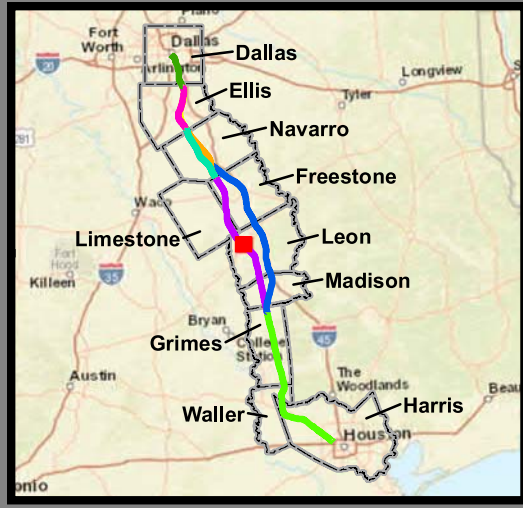
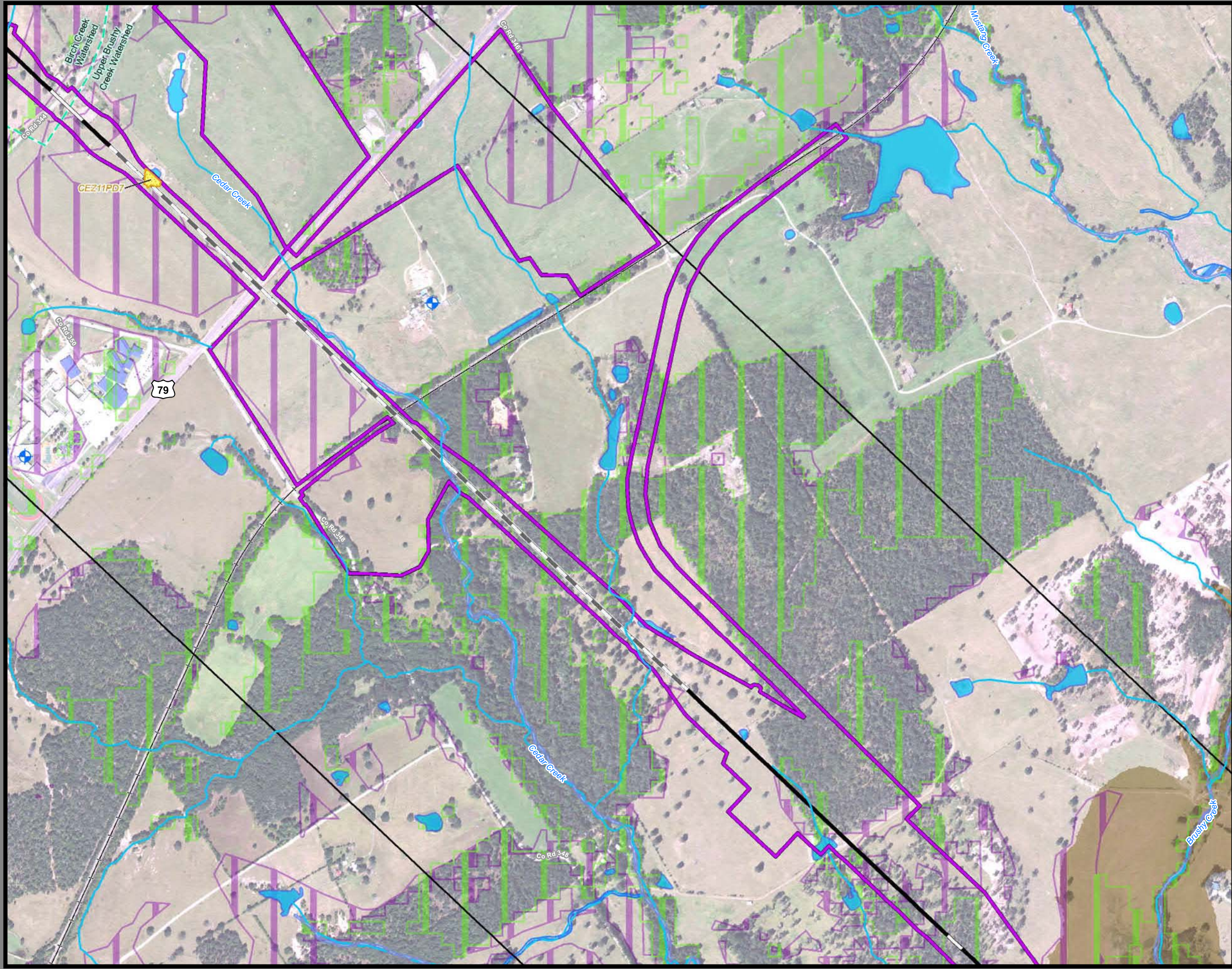
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High-Speed Rail Project
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- Legend**
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| <ul style="list-style-type: none"> Limits of Disturbance Segment 1 Segment 2A Segment 2B Segment 3A Segment 3B Segment 3C Segment 4 Segment 5 Track Configuration Viaduct Embankment Cut Half Mile Buffer City Boundary County Boundary Railroad Municipal Setting Designation (MSD) Potential Habitat Houston Toad Large-fruited Sand Verbena Navasota Ladies'-tresses Endangered Species Threatened Species U.S. Army Corps of Engineers (USACE) Project Area Watershed (HUC 12) Boundary Public Water Supply Groundwater Well | <ul style="list-style-type: none"> Impaired Waters with Total Maximum Daily Load (TMDL) Impaired Waters Federal Emergency Management Agency (FEMA) Flood Zone A - 1% AE - 1% AO - 1% X - 0.2% Field-Collected Data Perennial Stream/River Intermittent Stream/River Ephemeral Stream/River Other Stream/River Lake/Pond Emergent Wetland Forested Wetland Scrub/Shrub Wetland National Hydrography Dataset (NHD) Perennial Stream/River Intermittent Stream/River Artificial Stream/Canal Lake/Pond Reservoir Swamp/Marsh National Wetlands Inventory (NWI) Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Other |
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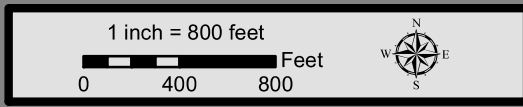
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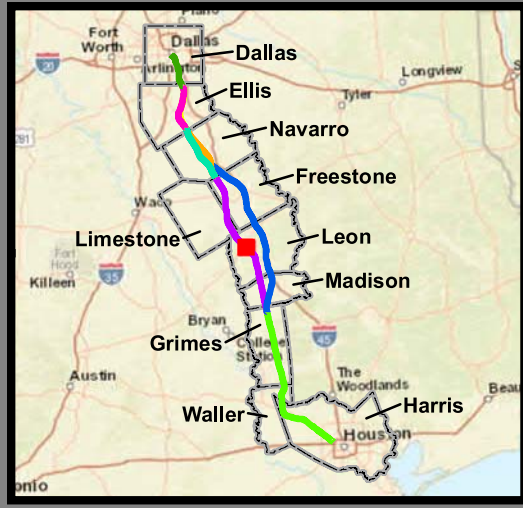
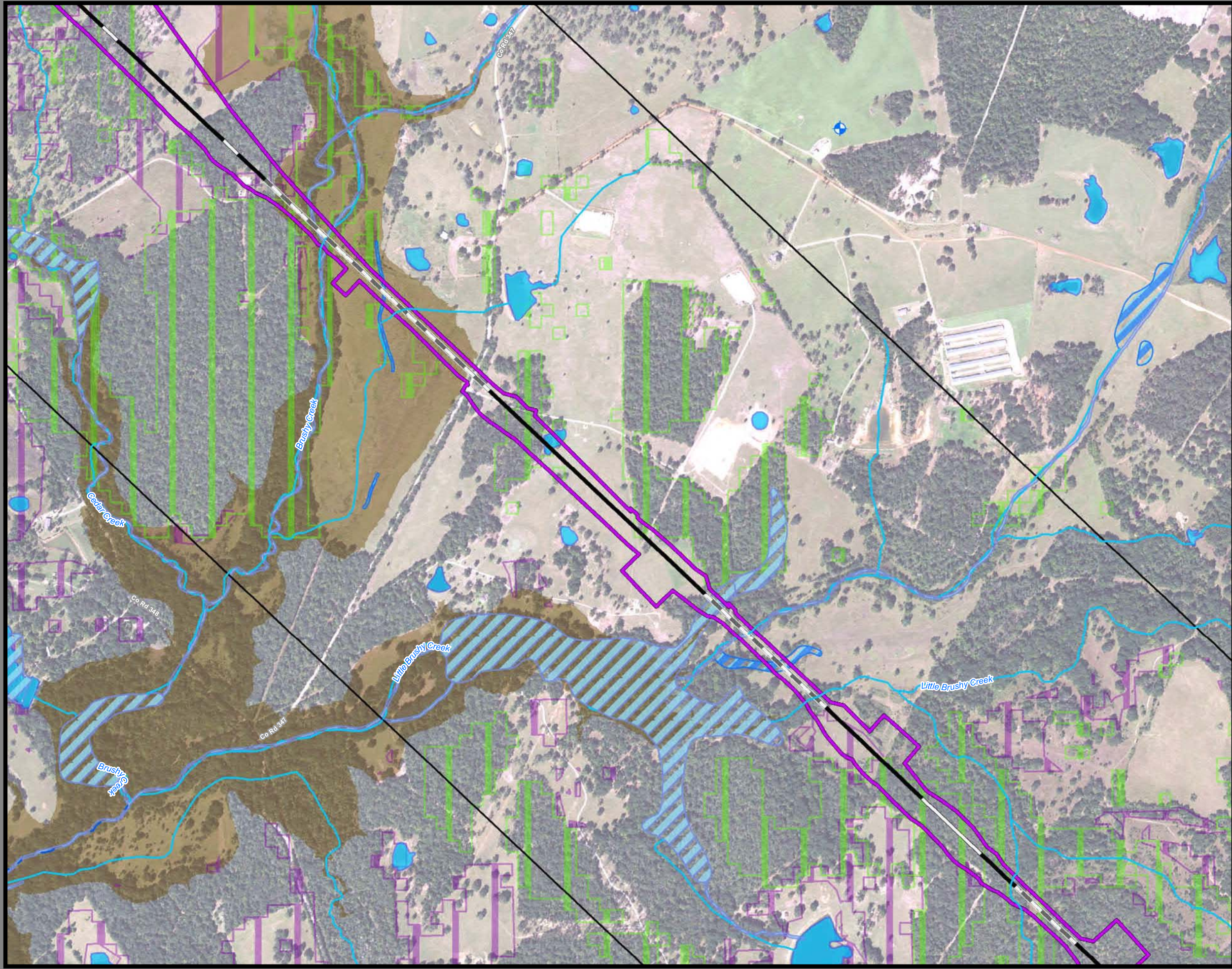
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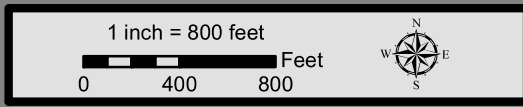
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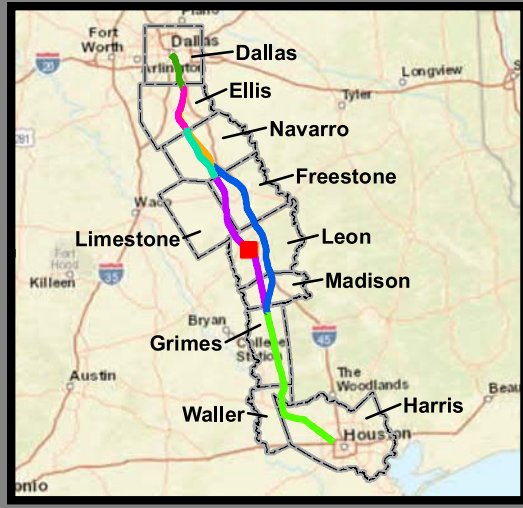
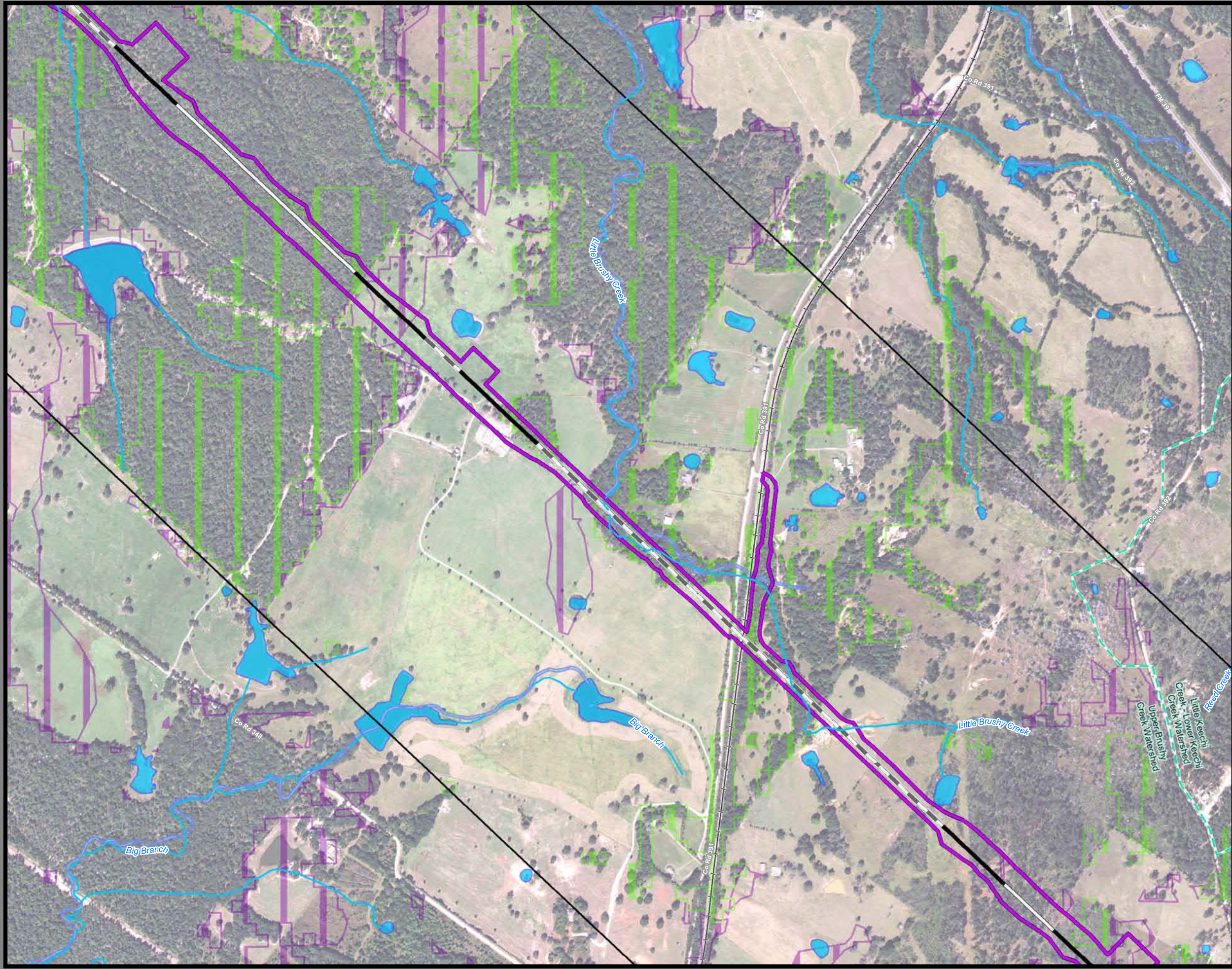
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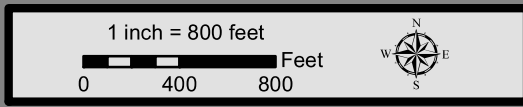
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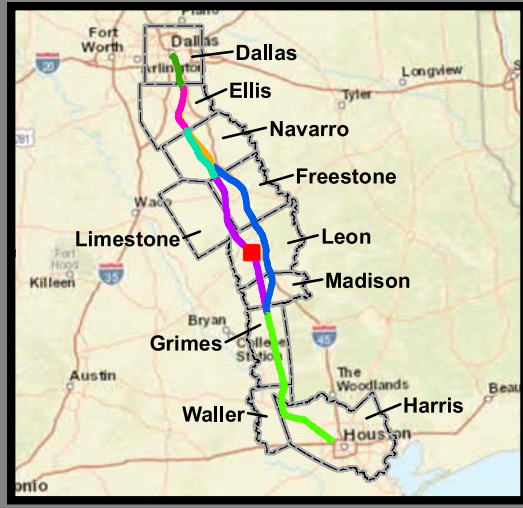
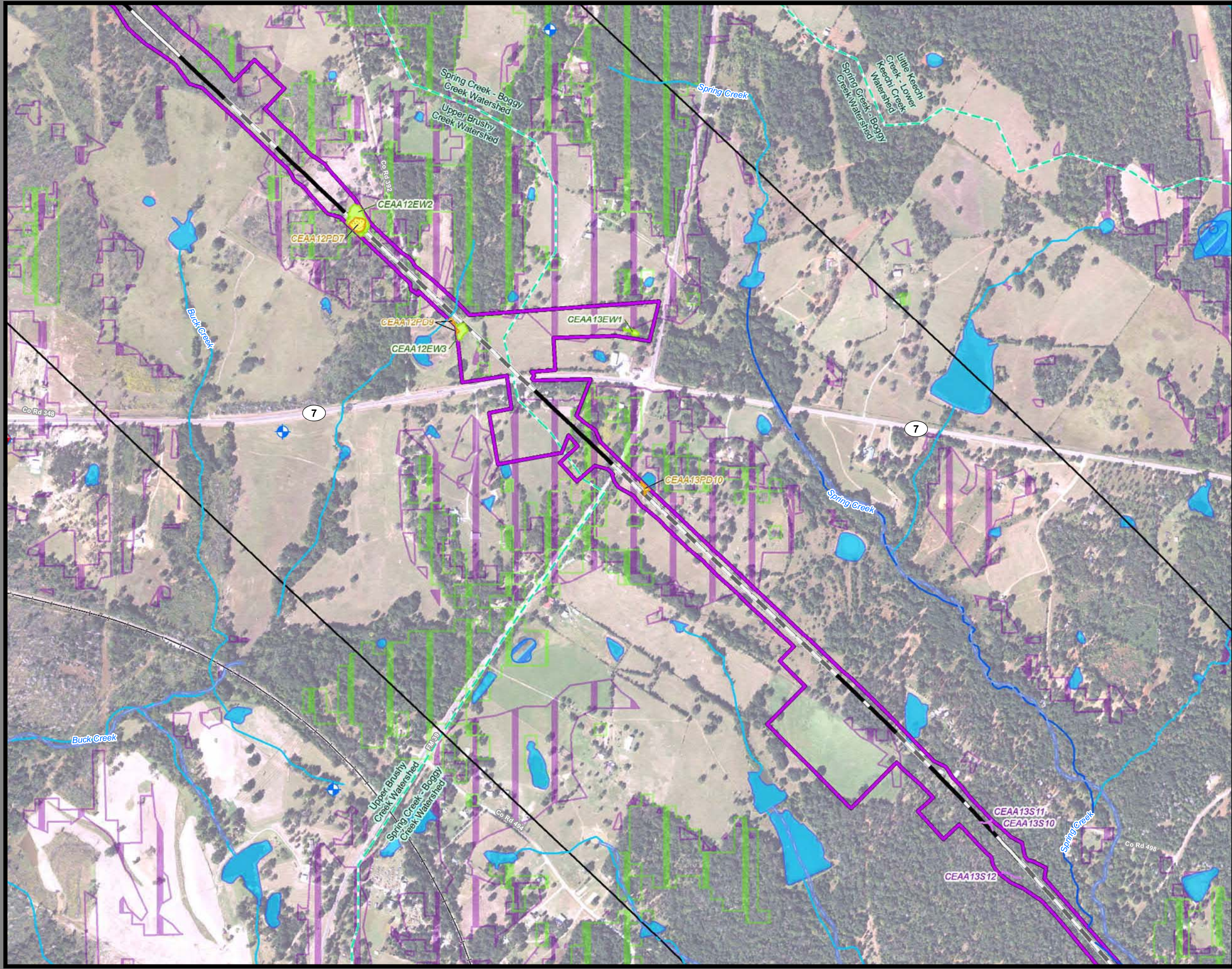
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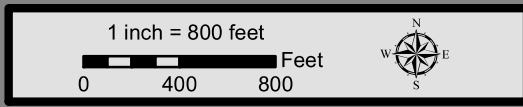
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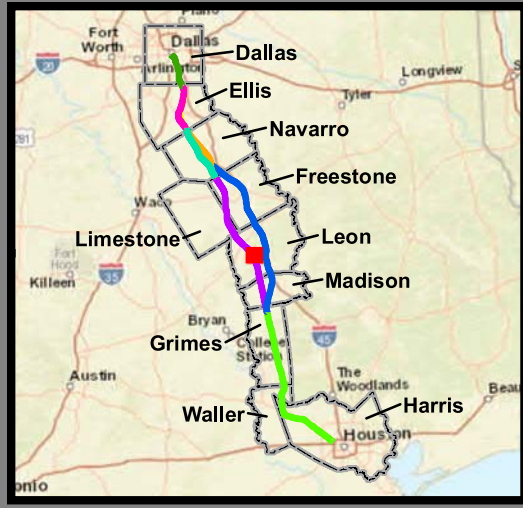
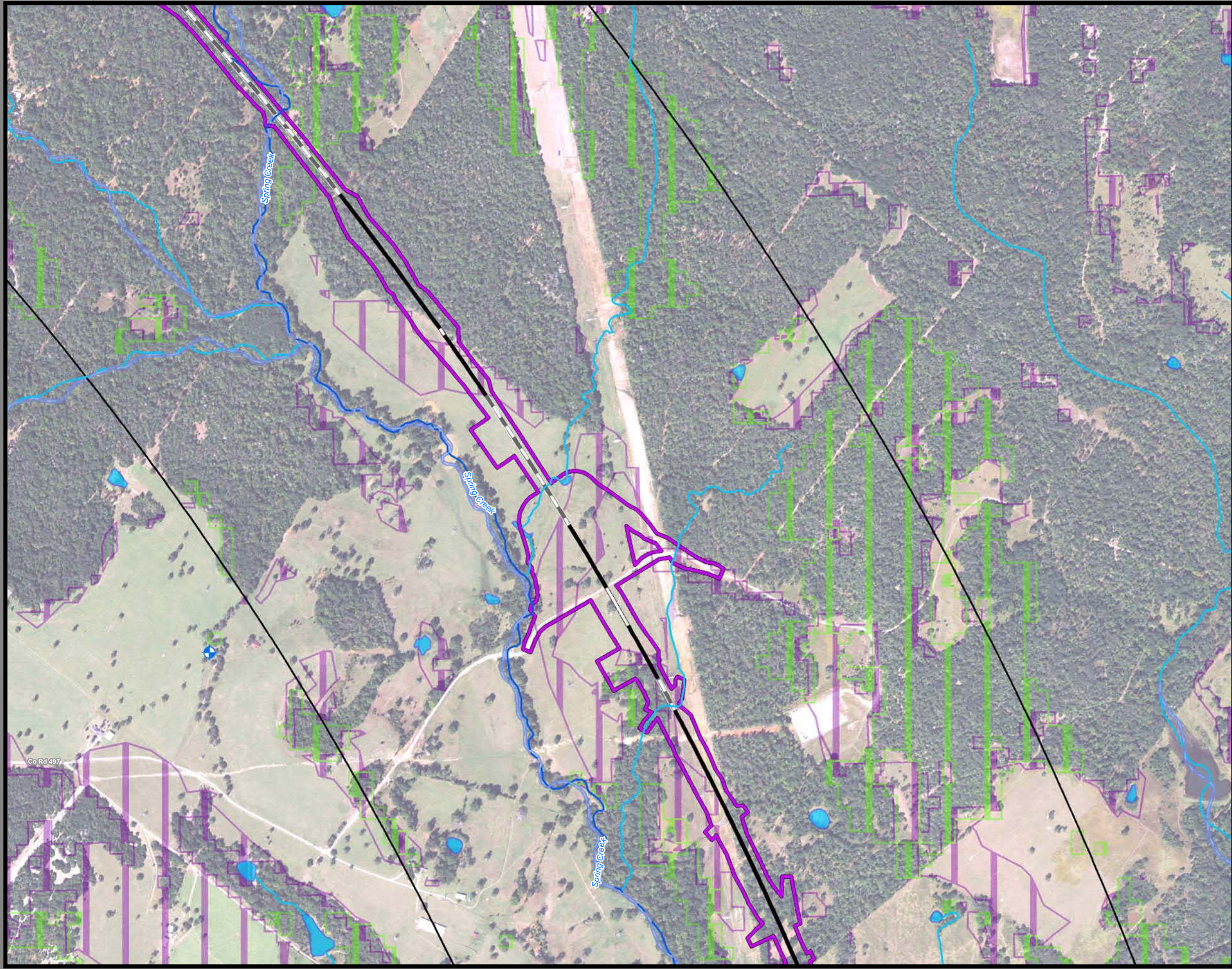
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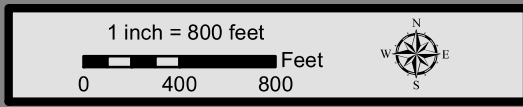
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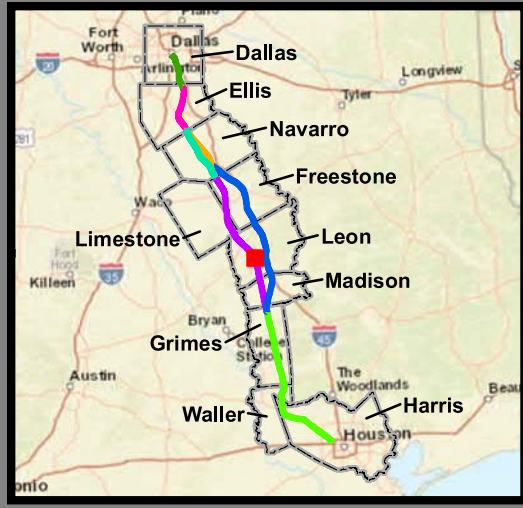
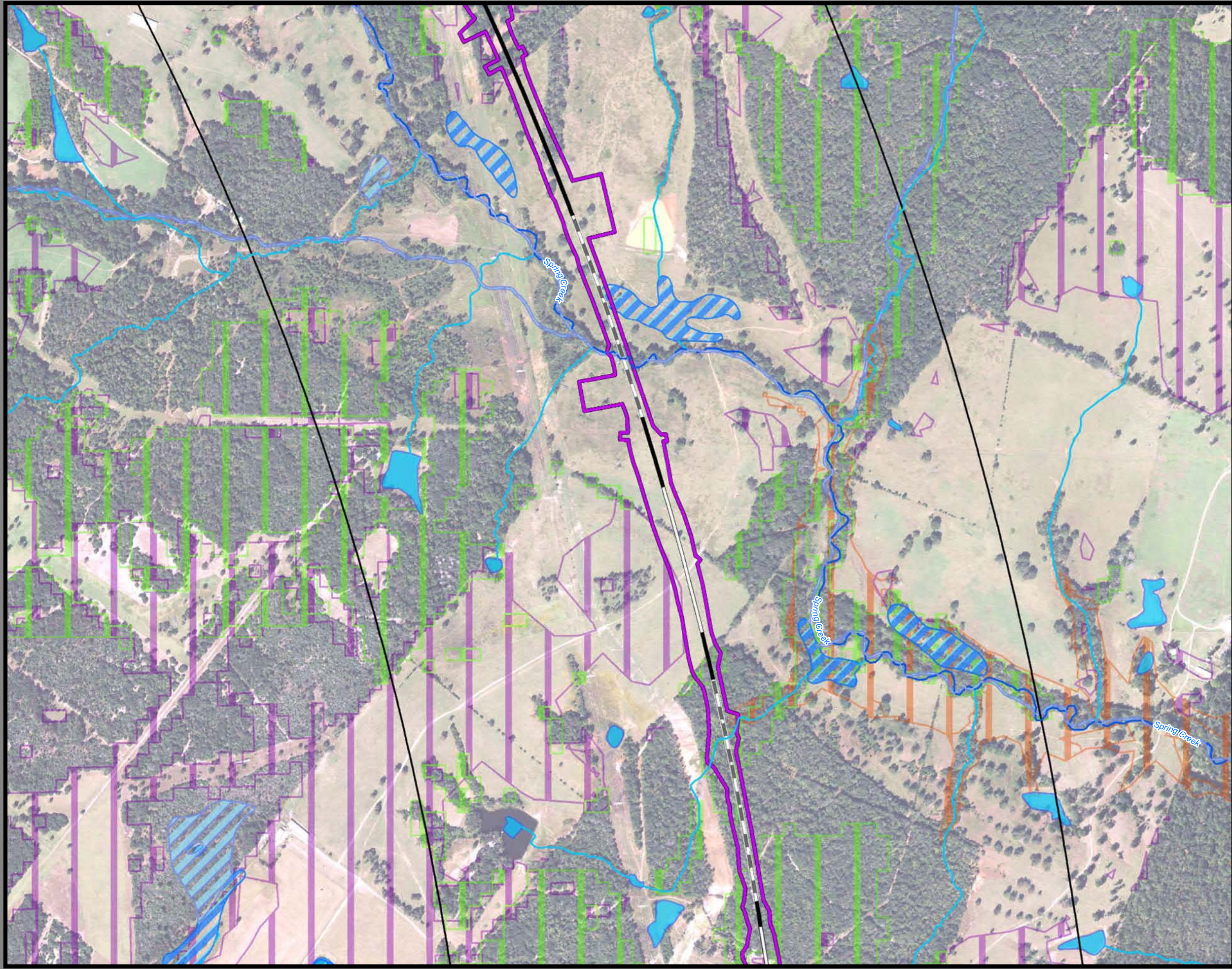
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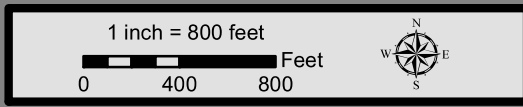
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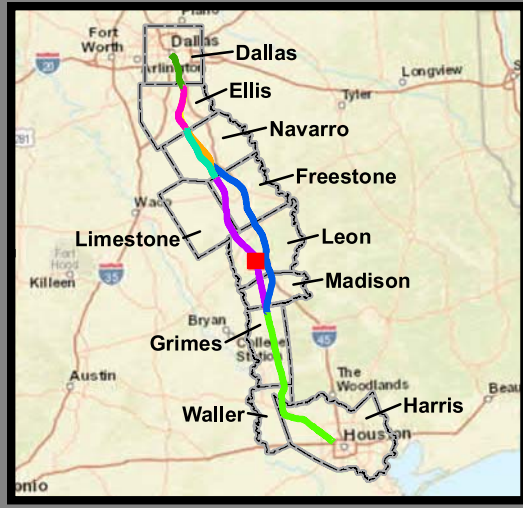
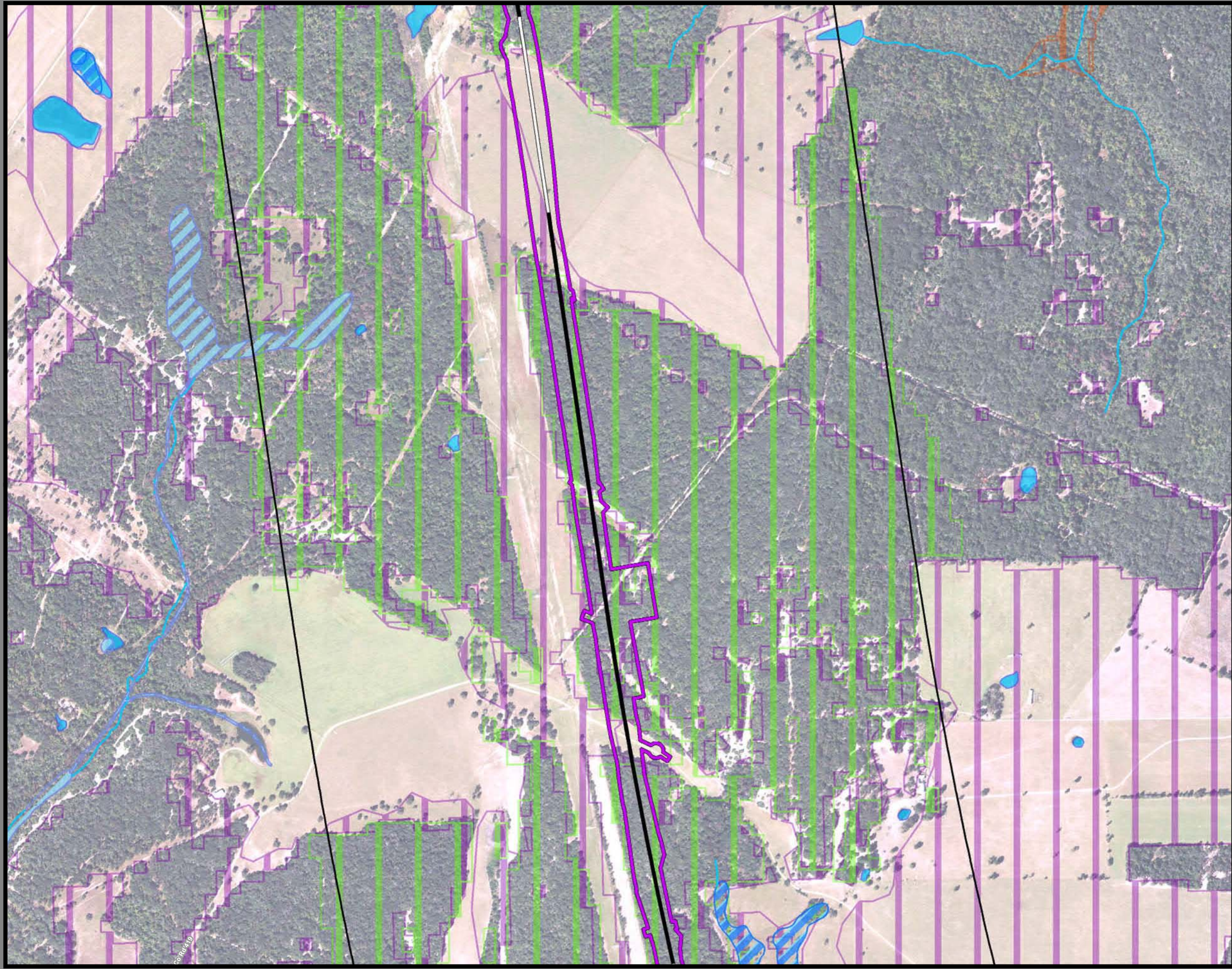
<p>Limits of Disturbance</p> <ul style="list-style-type: none"> Segment 1 Segment 2A Segment 2B Segment 3A Segment 3B Segment 3C Segment 4 Segment 5 <p>Track Configuration</p> <ul style="list-style-type: none"> Viaduct Embankment Cut Half Mile Buffer City Boundary County Boundary Railroad Municipal Setting Designation (MSD) <p>Potential Habitat</p> <ul style="list-style-type: none"> Houston Toad Large-fruited Sand Verbena Navasota Ladies'-tresses Endangered Species Threatened Species U.S. Army Corps of Engineers (USACE) Project Area Watershed (HUC 12) Boundary Public Water Supply Groundwater Well 	<ul style="list-style-type: none"> Impaired Waters with Total Maximum Daily Load (TMDL) Impaired Waters <p>Federal Emergency Management Agency (FEMA) Flood Zone</p> <ul style="list-style-type: none"> A - 1% AE - 1% AO - 1% X - 0.2% <p>Field-Collected Data</p> <ul style="list-style-type: none"> Perennial Stream/River Intermittent Stream/River Ephemeral Stream/River Other Stream/River Lake/Pond Emergent Wetland Forested Wetland Scrub/Shrub Wetland <p>National Hydrography Dataset (NHD)</p> <ul style="list-style-type: none"> Perennial Stream/River Intermittent Stream/River Artificial Stream/Canal Lake/Pond Reservoir Swamp/Marsh <p>National Wetlands Inventory (NWI)</p> <ul style="list-style-type: none"> Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Other
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This Sheet only depicts Segment 4; Segment 3C is also located in this same area and can be referenced on Sheet 131.

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Aerial Imagery: USDA NAIP 2014





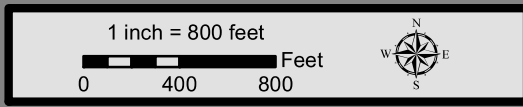
**Dallas to Houston
High-Speed Rail Project
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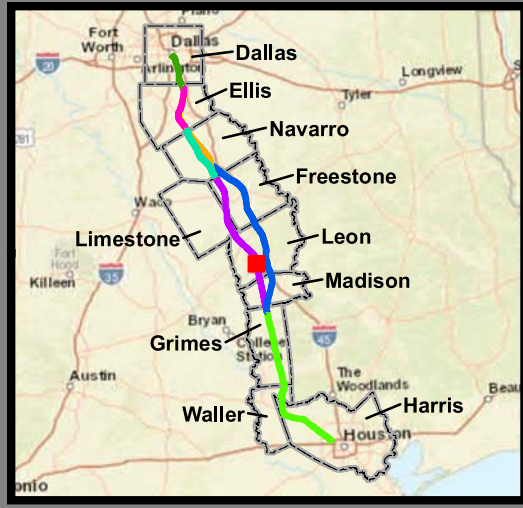
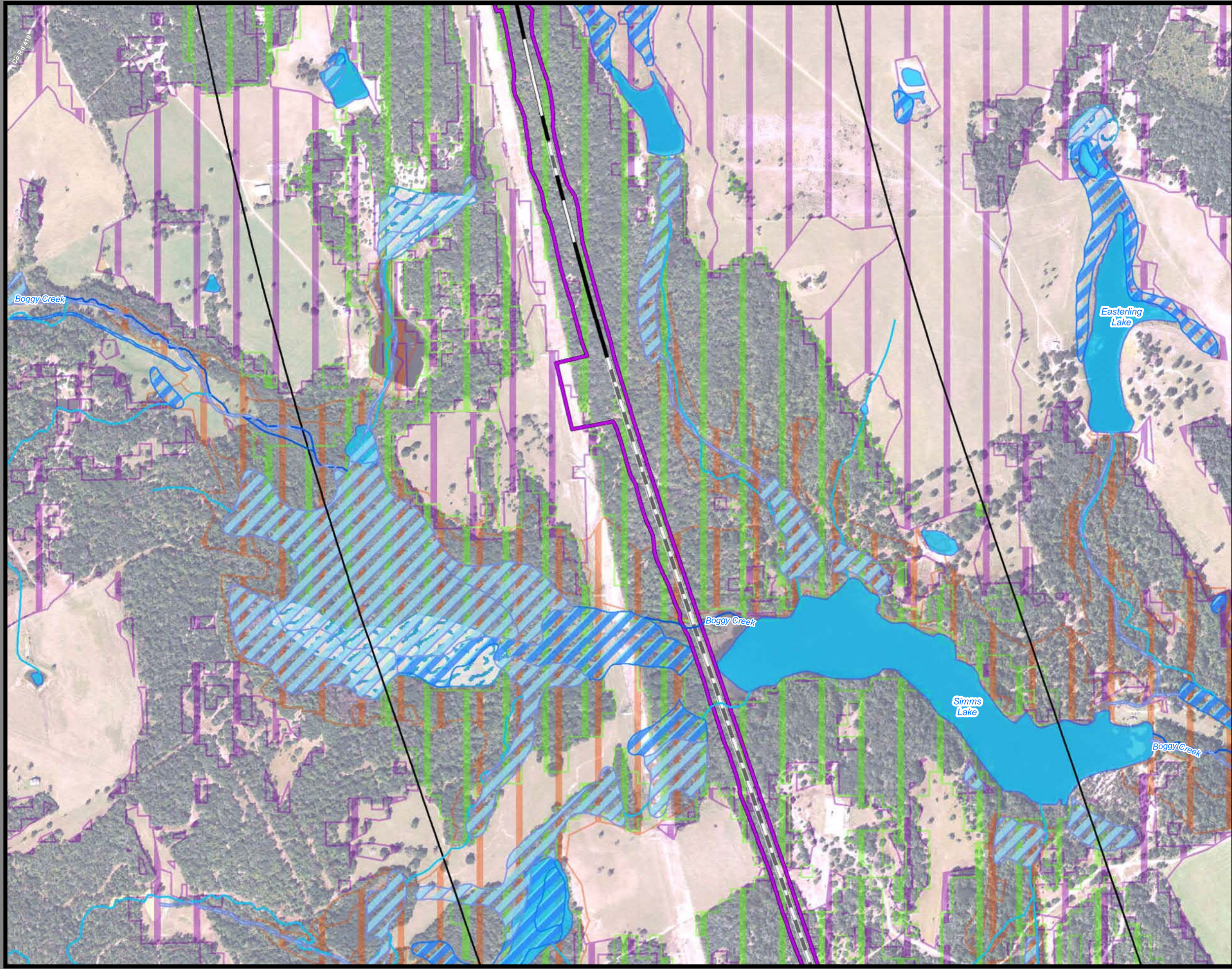
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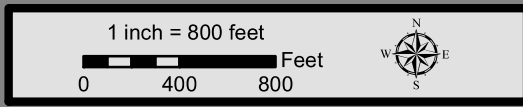
**Dallas to Houston
High-Speed Rail Project
Natural Resources
Segment 4
Sheet 184 of 257**

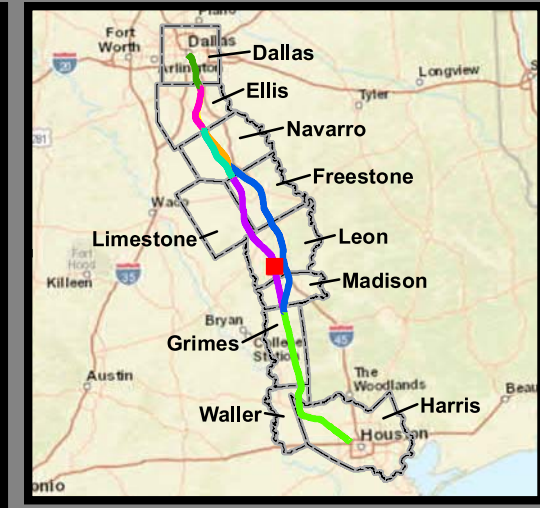
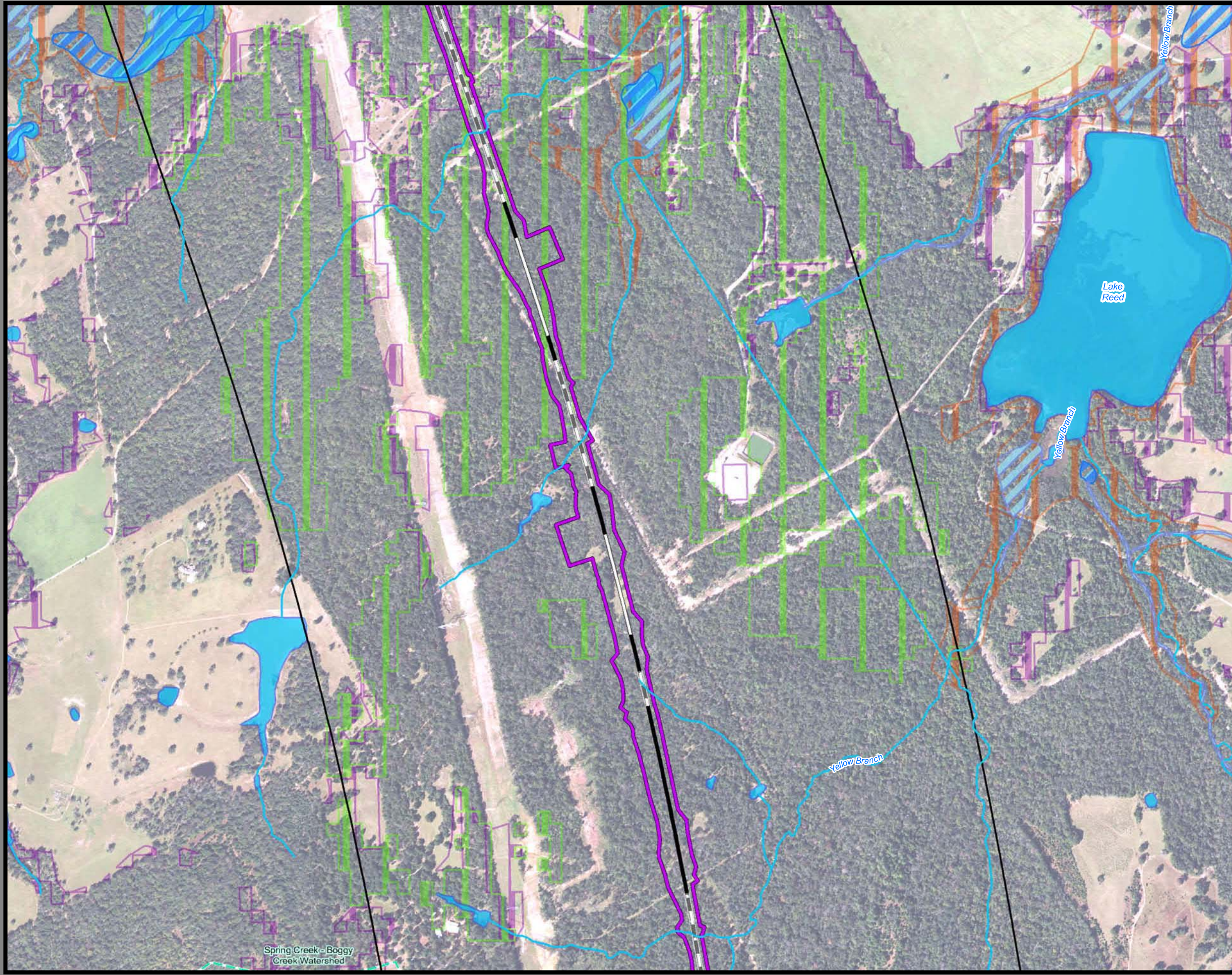
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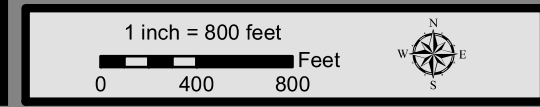
**Dallas to Houston
High-Speed Rail Project
Natural Resources
Segment 4
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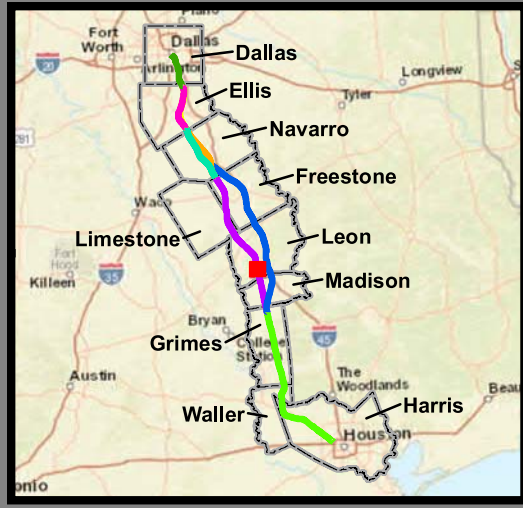
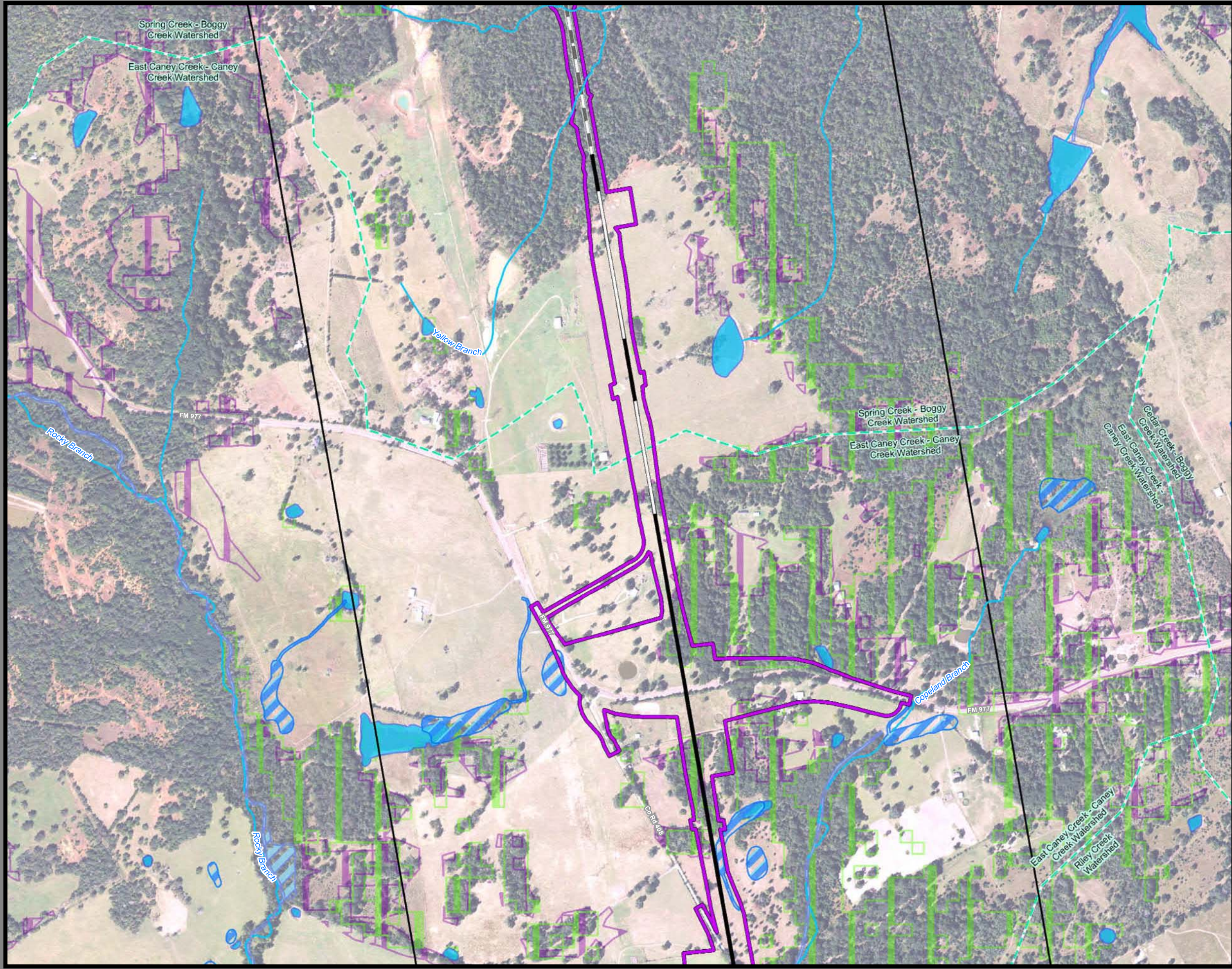
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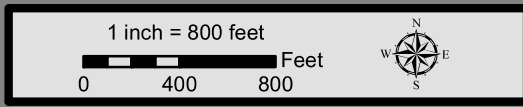
**Dallas to Houston
High-Speed Rail Project
Natural Resources
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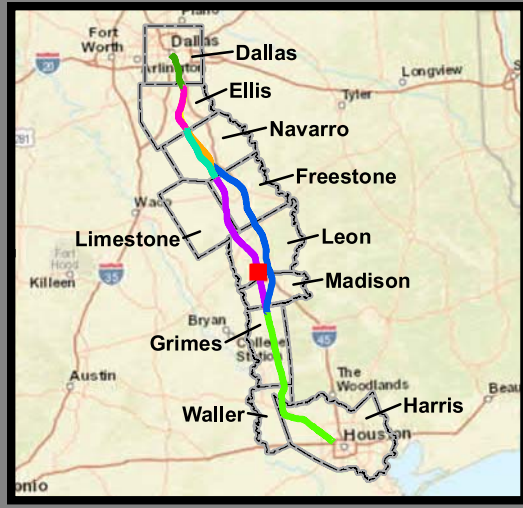
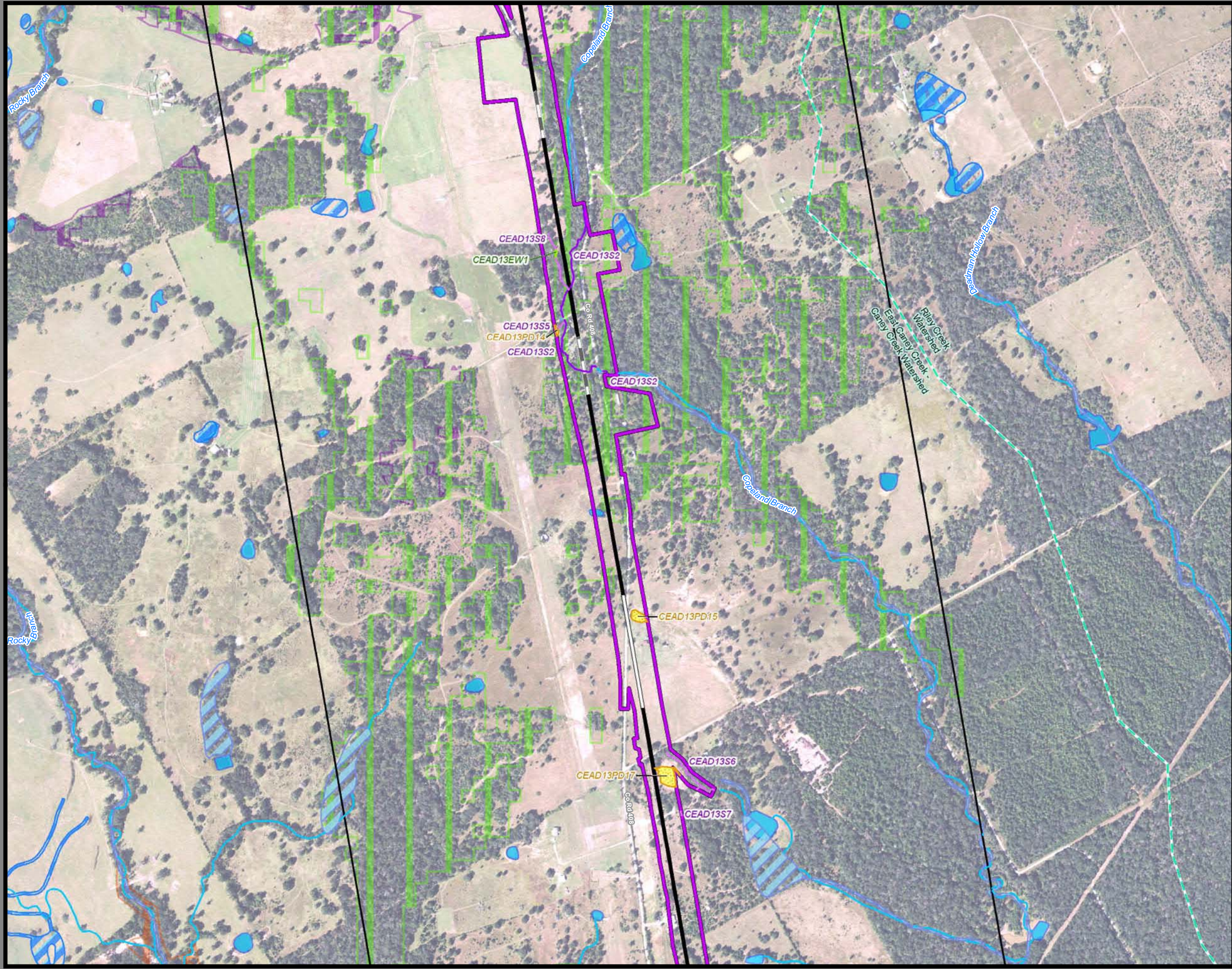
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Limits of Disturbance	Impaired Waters with Total Maximum Daily Load (TMDL)
Segment 1	Impaired Waters
Segment 2A	Federal Emergency Management Agency (FEMA) Flood Zone
Segment 2B	A - 1%
Segment 3A	AE - 1%
Segment 3B	AO - 1%
Segment 3C	X - 0.2%
Segment 4	Field-Collected Data
Segment 5	Perennial Stream/River
Track Configuration	Intermittent Stream/River
Viaduct	Ephemeral Stream/River
Embankment	Other Stream/River
Cut	Lake/Pond
Half Mile Buffer	Emergent Wetland
City Boundary	Forested Wetland
County Boundary	Scrub/Shrub Wetland
Railroad	National Hydrography Dataset (NHD)
Municipal Setting Designation (MSD)	Perennial Stream/River
Potential Habitat	Intermittent Stream/River
Houston Toad	Artificial Stream/Canal
Large-fruited Sand Verbena	Lake/Pond
Navasota Ladies'-tresses	Reservoir
Endangered Species	Swamp/Marsh
Threatened Species	National Wetlands Inventory (NWI)
U.S. Army Corps of Engineers (USACE) Project Area	Freshwater Emergent Wetland
Watershed (HUC 12) Boundary	Freshwater Forested/Shrub Wetland
Public Water Supply	Other
Groundwater Well	

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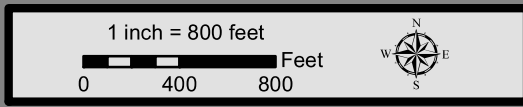
**Dallas to Houston
High-Speed Rail Project
Natural Resources
Segment 4
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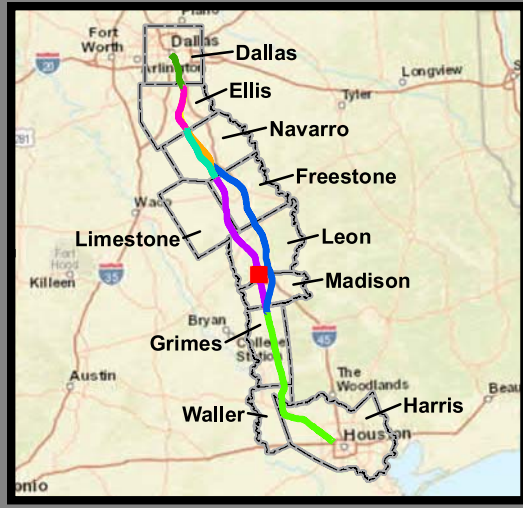
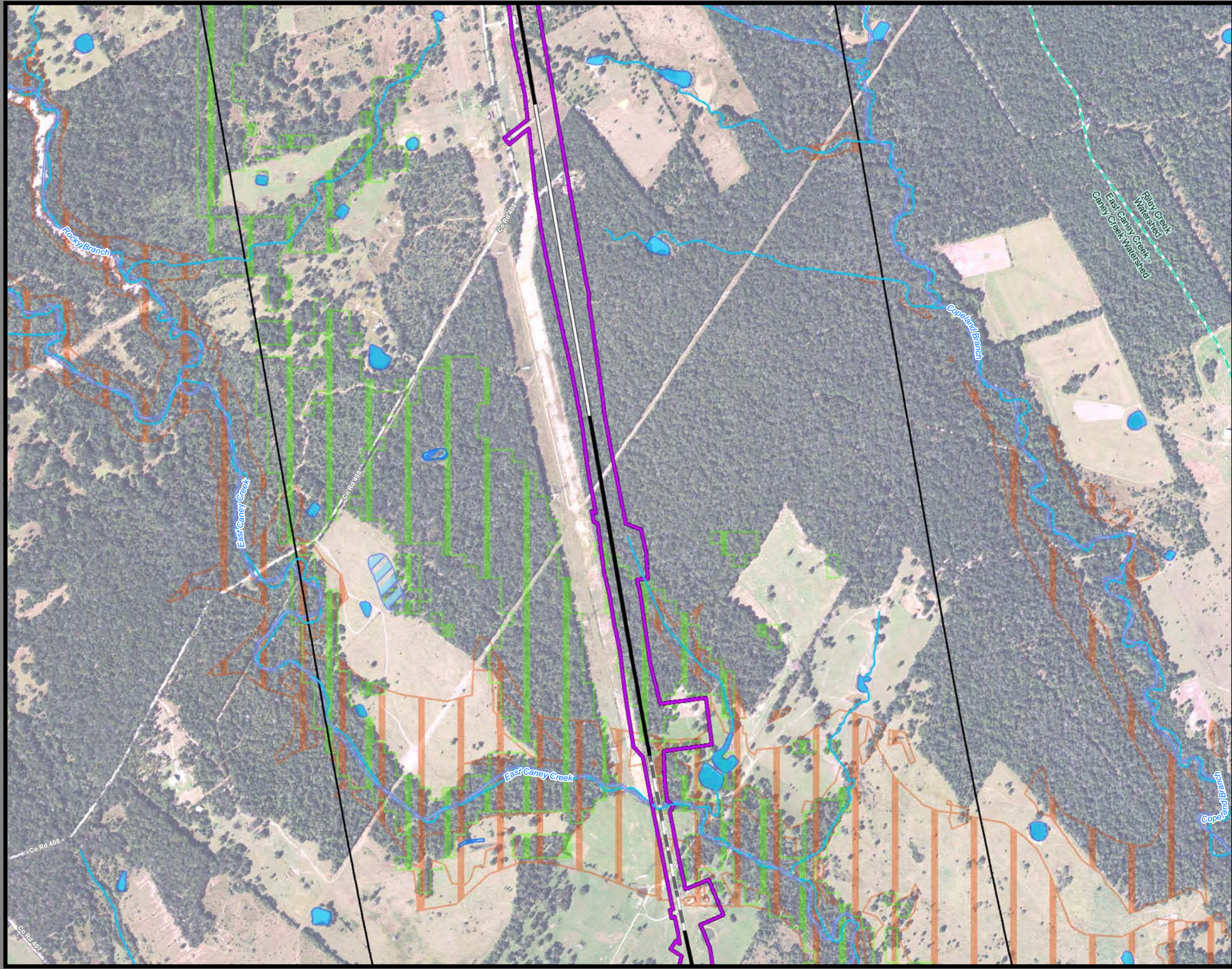
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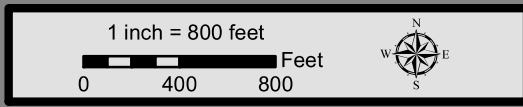
**Dallas to Houston
High-Speed Rail Project
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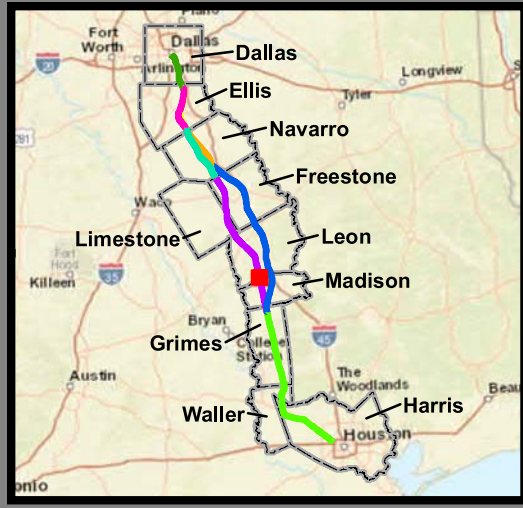
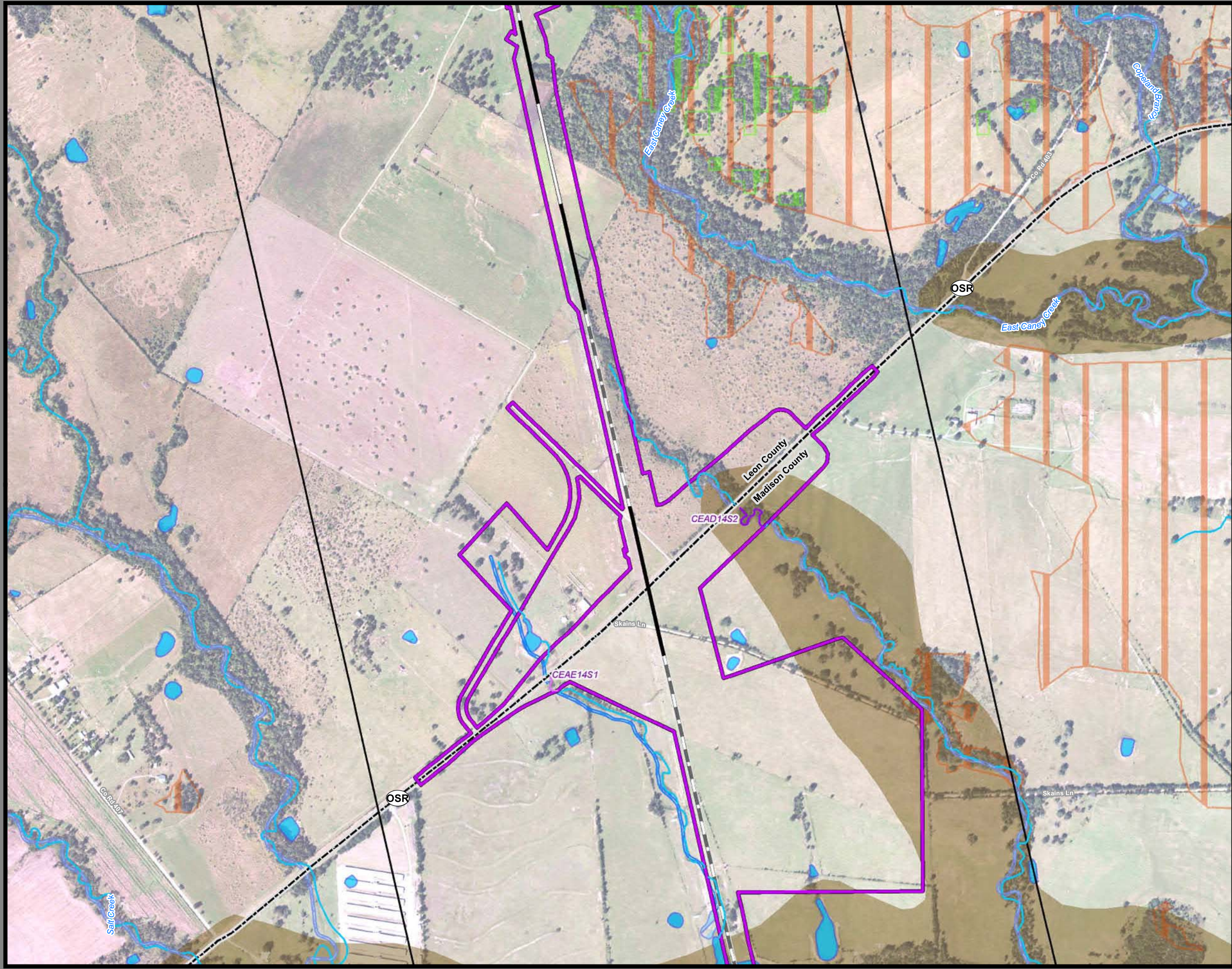
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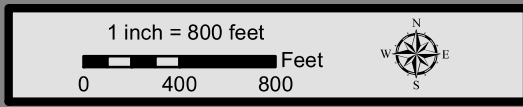
**Dallas to Houston
High-Speed Rail Project
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Sheet 189 of 257**

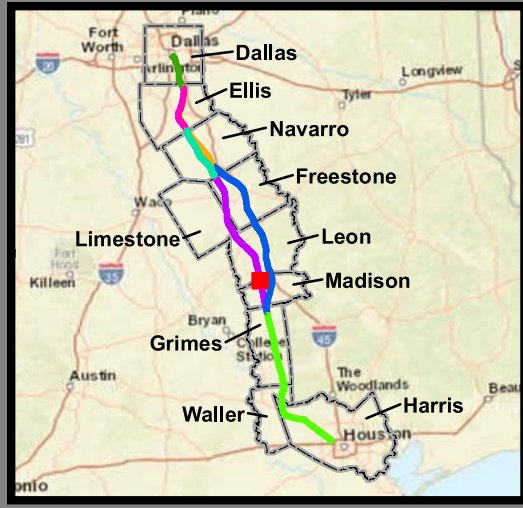
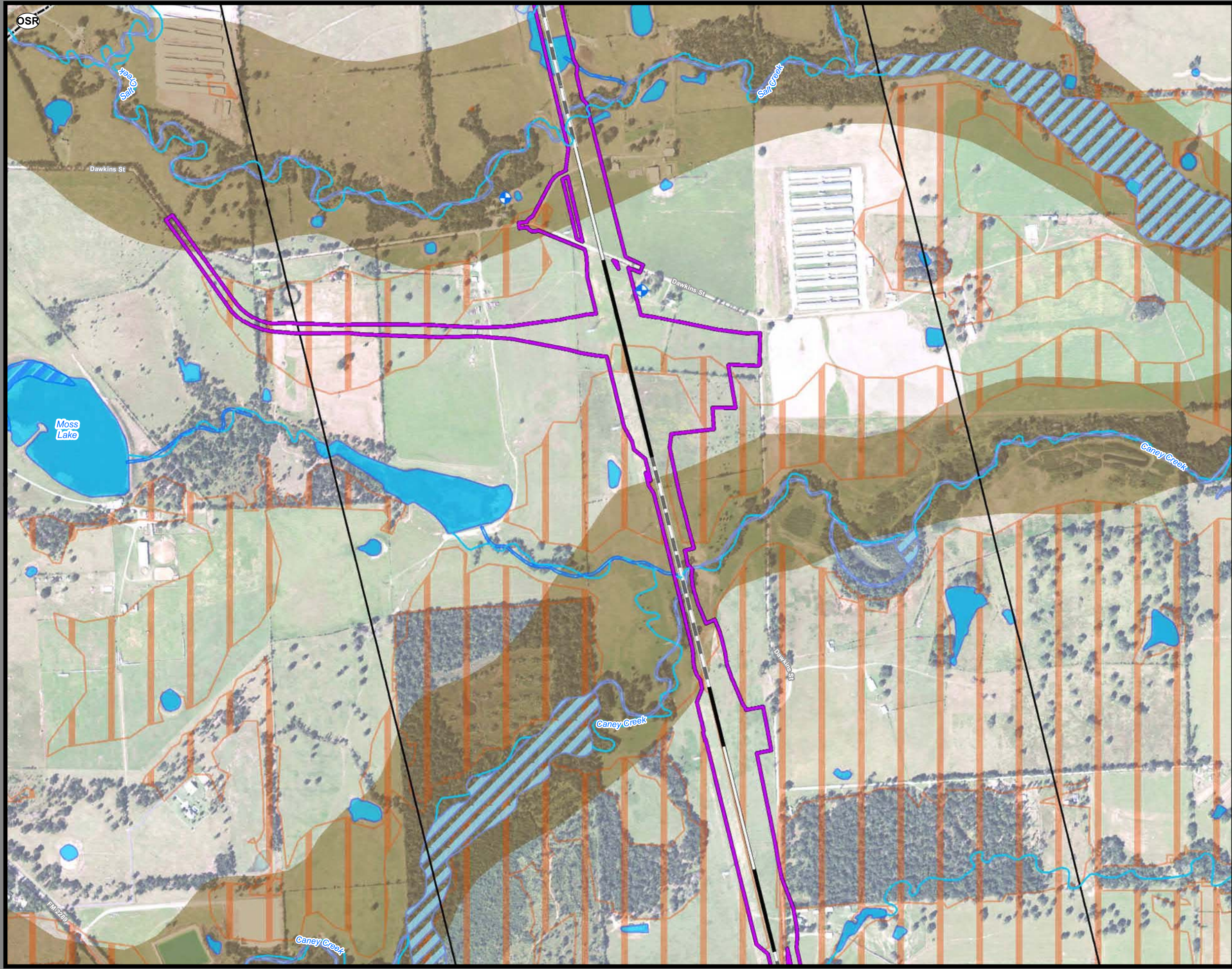
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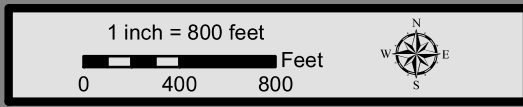
**Dallas to Houston
High-Speed Rail Project
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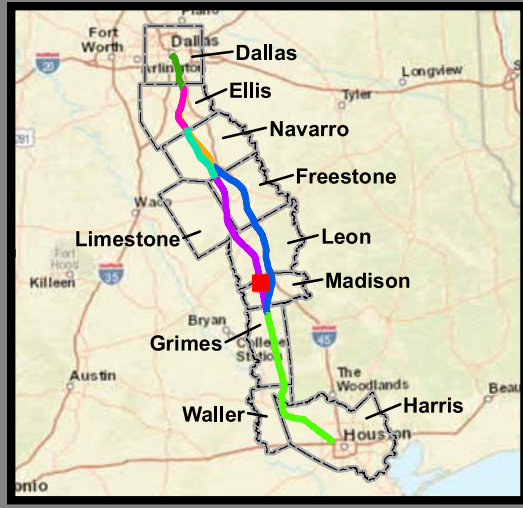
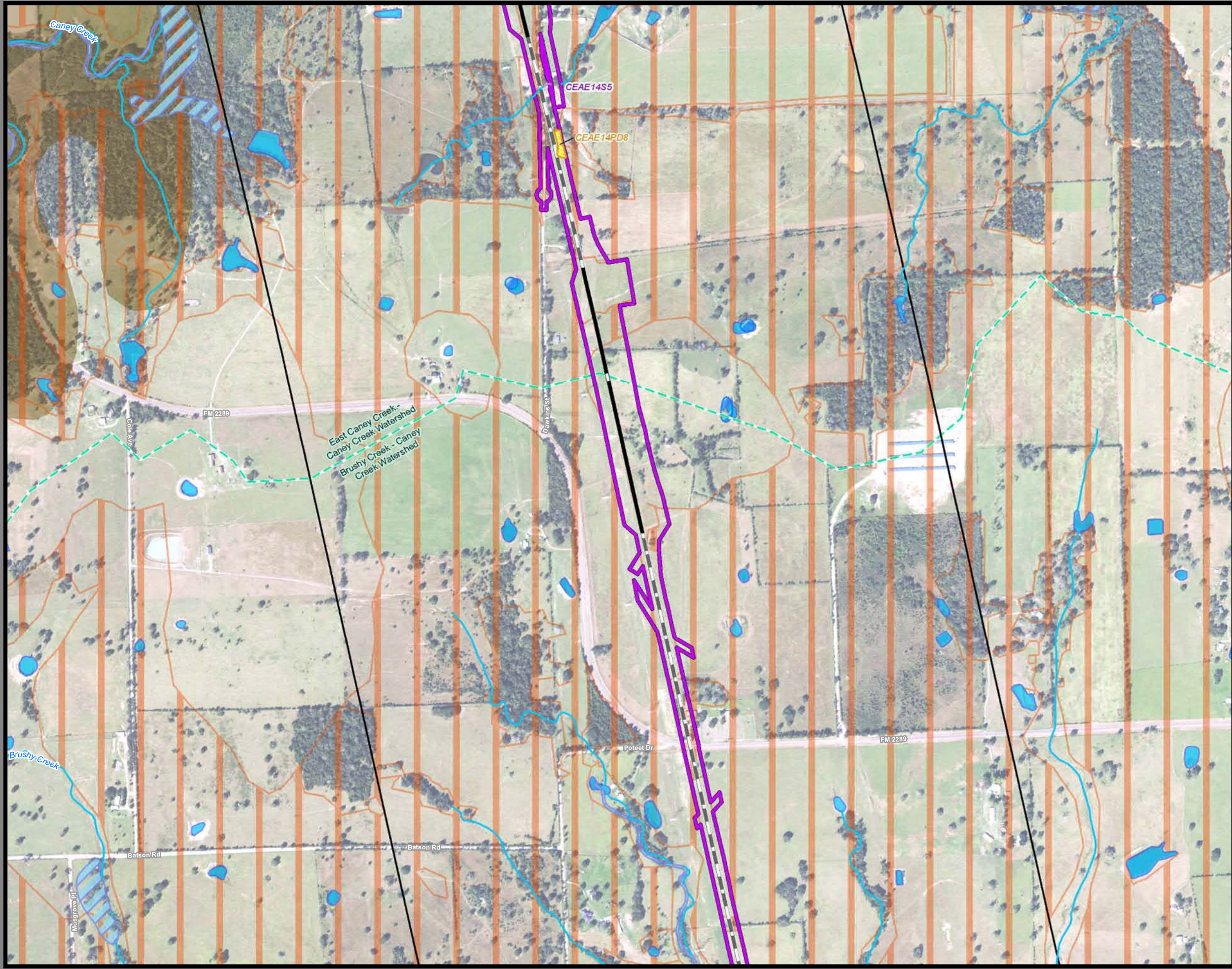
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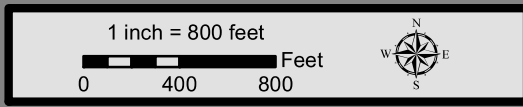
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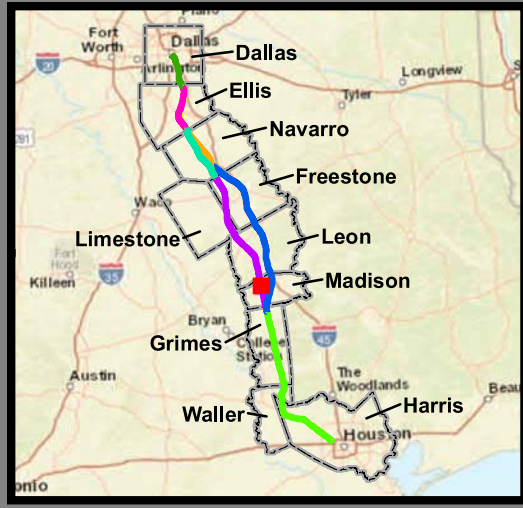
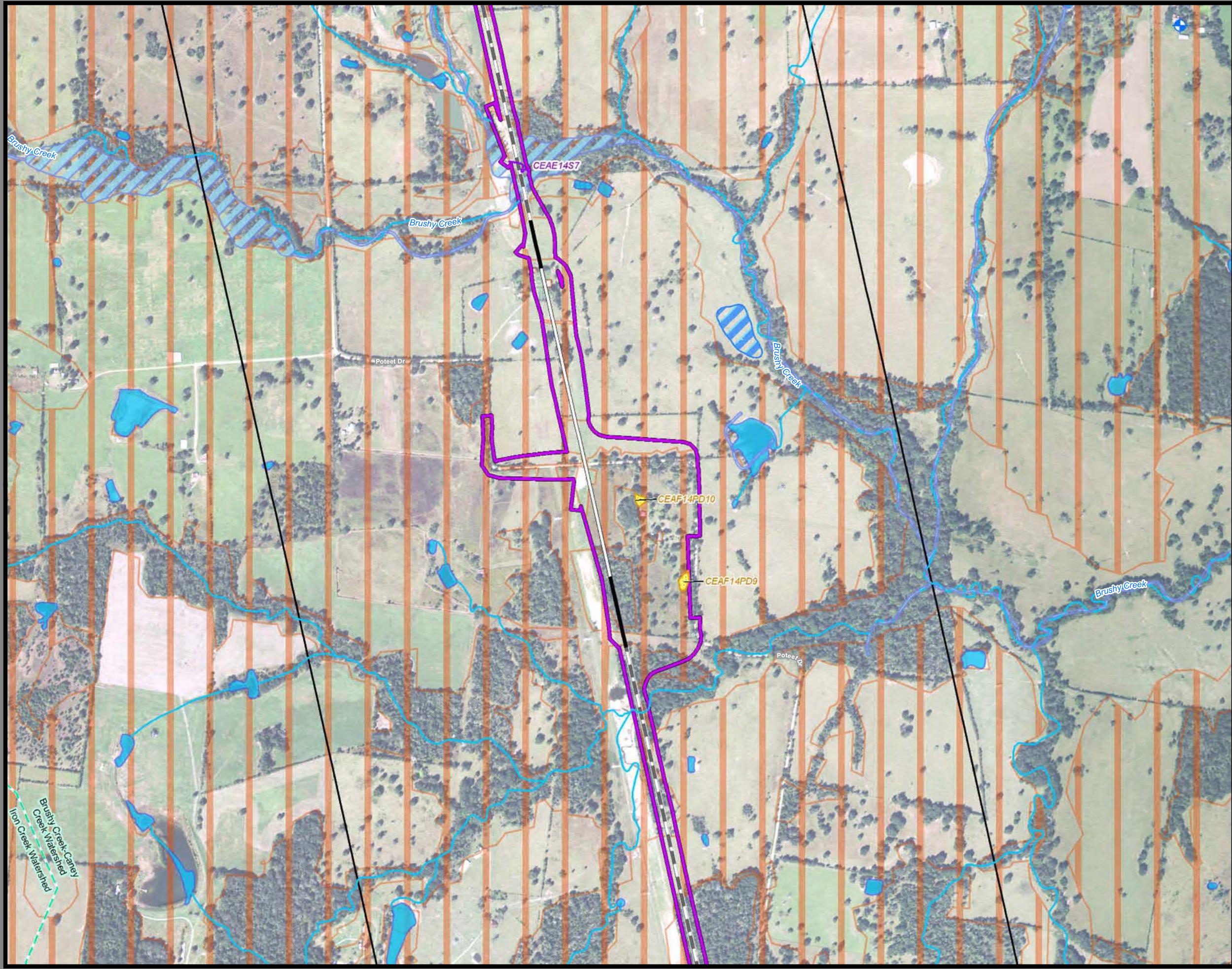
Legend

<p>Limits of Disturbance</p> <ul style="list-style-type: none"> Segment 1 Segment 2A Segment 2B Segment 3A Segment 3B Segment 3C Segment 4 Segment 5 <p>Track Configuration</p> <ul style="list-style-type: none"> Viaduct Embankment Cut Half Mile Buffer City Boundary County Boundary Railroad Municipal Setting Designation (MSD) <p>Potential Habitat</p> <ul style="list-style-type: none"> Houston Toad Large-fruited Sand Verbena Navasota Ladies-tresses Endangered Species Threatened Species U.S. Army Corps of Engineers (USACE) Project Area Watershed (HUC 12) Boundary Public Water Supply Groundwater Well 	<ul style="list-style-type: none"> Impaired Waters with Total Maximum Daily Load (TMDL) Impaired Waters <p>Federal Emergency Management Agency (FEMA) Flood Zone</p> <ul style="list-style-type: none"> A - 1% AE - 1% AO - 1% X - 0.2% <p>Field-Collected Data</p> <ul style="list-style-type: none"> Perennial Stream/River Intermittent Stream/River Ephemeral Stream/River Other Stream/River Lake/Pond Emergent Wetland Forested Wetland Scrub/Shrub Wetland <p>National Hydrography Dataset (NHD)</p> <ul style="list-style-type: none"> Perennial Stream/River Intermittent Stream/River Artificial Stream/Canal Lake/Pond Reservoir Swamp/Marsh <p>National Wetlands Inventory (NWI)</p> <ul style="list-style-type: none"> Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Other
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*Floodplains in Freestone and Madison Counties digitized from U.S. Dept of Housing and Urban Development 1978 and 1991 Flood Hazard Boundary Maps due to lack of digitally mapped FEMA floodplains.

Data Sources: County Boundaries - U.S. Census TIGER 2015; City Boundaries - TxDOT 2013; MSD - TCEQ 2013; USACE Project Areas - USACE 2014; Public Water Supply/Impaired Waters - EPA 2016; Groundwater Wells - TWDB 2015; NHD/HUC12 - USGS 2016; Reservoirs - TWDB 2014; NWI - USFWS 2016; Floodplains - FEMA 2016; Endangered/Threatened Species - TPWD TXNDD Element of Occurrence Records (EOR) 2017; ESRI World Street Map
Aerial Imagery: USDA NAIP 2014





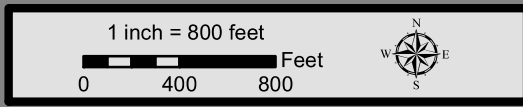
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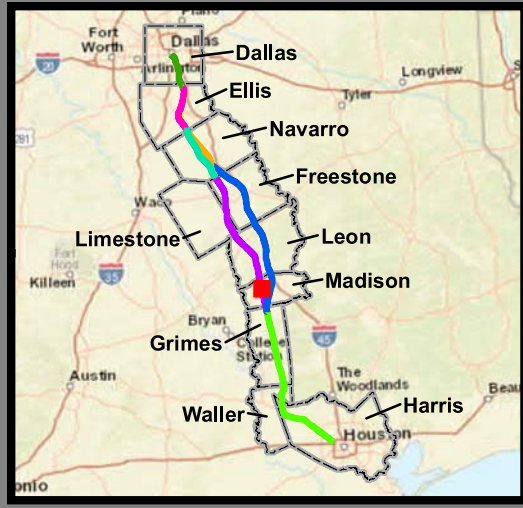
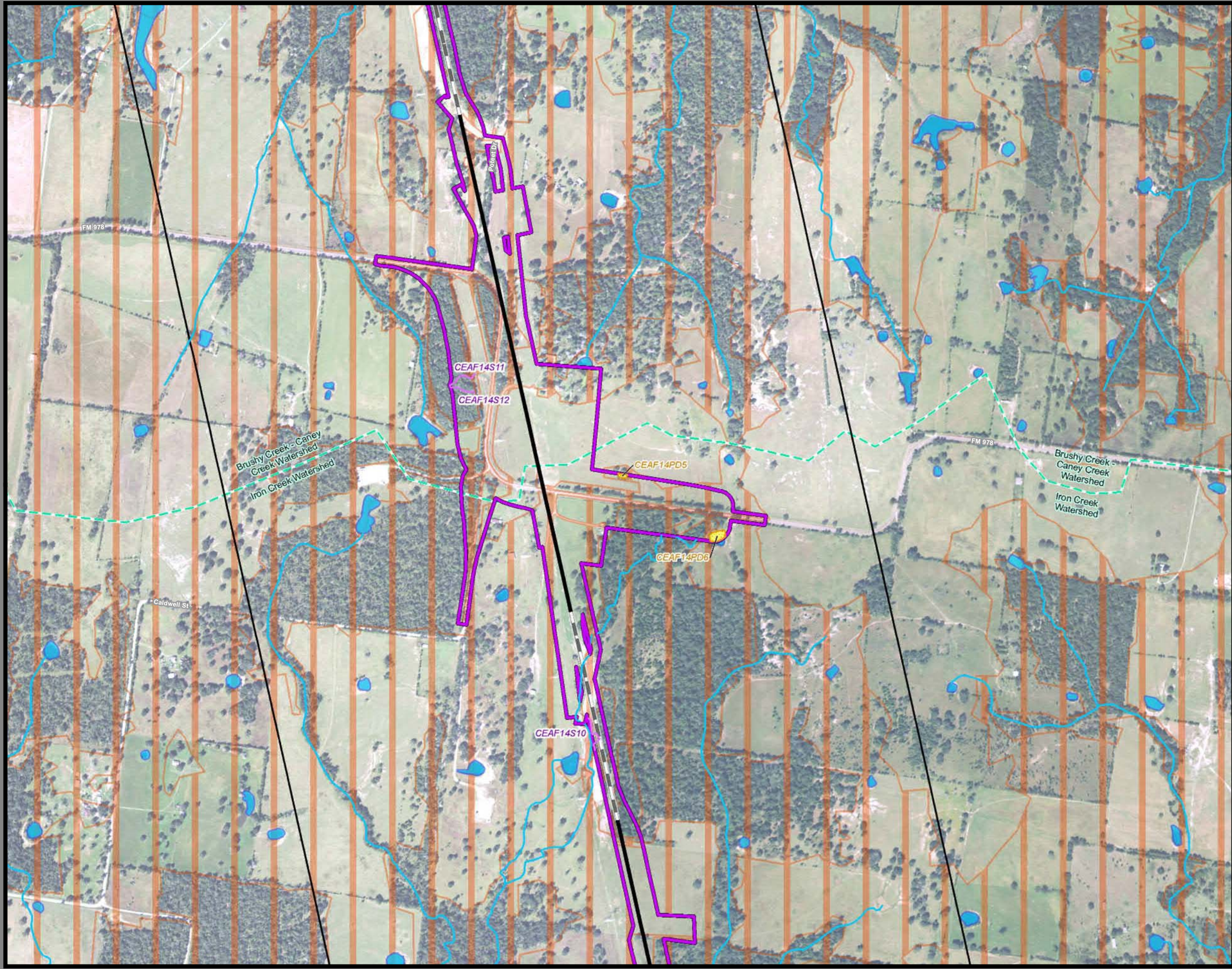
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Legend

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