

## Section 4 Site Inventory Maps

This section addresses *Larimer County Procedural Guide for 1041 Permits*, Item 4.

- 4.a** The applicant must identify all resources and environmental conditions potentially impacted by the proposed development. The inventory must include the following features on the site and within one half mile of the boundaries of the project perimeter (1,000 feet for linear facilities). If access to adjacent land is not possible the inventory may be completed by using map resources available in the Planning Department. The inventory may include a narrative explanation and/or maps depicting the location of the features. The site inventory may be integrated with the Project Description to give a complete picture of the proposal. The title of the project must appear on each map sheet. If an aerial photo is being used, indicate the date of the photography.

Site inventory maps identify resources and environmental conditions potentially impacted by the TWP. As discussed during the Pre-Application Conference with Larimer County Planning staff on May 26, 2016, a site inventory is not required beyond the TWP corridor. However, Thornton included an additional study buffer at most locations that includes a 500-foot buffer from the TWP corridor for the water pipeline and a 1,200-foot buffer around the TWP corridor near the water tank and source water pump station locations. Additional study buffer was not evaluated in areas where environmental impacts are expected to be minor, that is, where the water pipeline is proposed to be located in the Larimer County Douglas Road ROW or on Thornton-owned property near Douglas Road where ground-disturbing activities already take place; that information is provided in **Appendix C**.

The aerial imagery utilized in the creation of the site inventory maps is from multiple sources; the three main sources are Denver Regional Council of Governments (DRCOG) 2016, Microsoft Bing Imagery 2011, and National Agricultural Imagery Program (NAIP) 2015. The information shown in these maps is the best available data downloaded from Larimer County's website and other local agencies. Each figure lists its source information.

The Site Inventory Map(s) may be required to contain the following information:

- 4.b** Existing buildings, structures, utilities (water transmission lines and sewer collection lines), easements and other features including irrigation facilities, fences, roads, etc.;

**Figure 4.b** shows the best available data for existing utility corridors, which includes gas, electrical, telecommunications, water, and sanitary sewer utilities. Oil and gas wells are also shown. Subsurface utility engineering will be completed during the design and construction phases of the TWP and will include surface geophysical methods and test holes to determine the locations of existing utilities. Thornton has communicated with local utility providers to begin coordination activities as shown in **Appendix E** - Stakeholder Outreach Communications.

Other existing infrastructure such as buildings, other structures, irrigation facilities, and roads are shown on the Vicinity Maps in Section 3. Infrastructure information is shown on separate maps to enhance legibility.

- 4.c** Location of all residences, any abutting subdivision outlines and names, and the boundaries of any adjacent municipality or Growth Management Area.

The location of residences, subdivision outlines and names, and the boundaries of adjacent municipality and Growth Management Areas are shown on the Vicinity Maps in Section 3.

- 4.d** Existing vegetation, soil types for SCS Soil Survey, water bodies, and other natural features; **Figures 4.d-1** through **4.d-11** show soil types with the Soil Conservation Service (SCS) soil type, water bodies, and other natural features. Existing vegetation information within the TWP corridor and

study buffer can be found in the Natural and Cultural Resources Assessment Report and Addendum to the Natural and Cultural Resources Assessment in **Appendix C**. Vegetation figures (**Figures 4.1 through 4.55** and **Figure Addendum-3**) can be found in the reports.

**4. e Officially designated 100 year flood plains with Flood Way and Flood Fringe clearly shown;**

**Figure 4.e** shows the officially designated 100-year floodplains within the TWP corridor. The 100-year floodplain and floodway were identified using Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps (FIRM). The flood fringe is identified as those areas within the floodplain but outside the floodway. Additional information can be found in Section 8.f, Floodplain Hydraulic/ Hydrologic Modeling Report.

**4. f Geologic Hazards rated 3 through 7 with location and classification shown, including areas with expansive soils and other moderate hazards;**

**Figure 4.f-1** shows geological hazards with rating and classifications. Additional information can be found in Section 8.c, Natural Hazard Mitigation Plan.

**Figures 4.f-2 through 4.f-12** shows the Natural Resources Conservation Service (NRCS) soil erodibility K factor values. K factor values represent the susceptibility of soil erosion, transportability of the sediment, and the amount and rate of runoff given a particular rainfall event. The majority of the TWP corridor is located within the low-to-medium soil erodibility range. Additional information can be found in Section 8.e, Drainage and Erosion Control Report and Plan.

**4. g Wetlands – area of wetlands (See Section 8.2)**

Open waters, wetlands, and riparian areas within the TWP corridor and study buffer are described in the Natural and Cultural Resources Assessment Report and Addendum to the Natural and Cultural Resources Assessment in **Appendix C**. **Figures 4.1 through 4.55** and **Figure Addendum-3** show these areas in the reports.

**4. h Drainage patterns and general direction of flows on and through the site;**

**Figure 4.h** shows drainage patterns and the general direction of flows in the TWP corridor. Additional information can be found in Section 8.e, Drainage and Erosion Control Report and Plan.

**4. i Topography with a contour interval sufficient to evaluate the proposal but no greater than 40-foot intervals. Contours must be labeled every 5 to 7 inches and every 5<sup>th</sup> contour line clearly shown by a heavier line. Areas of 20% or greater slope must be clearly shown by shading or other means;**

**Figures 4.i-1 through 4.i-5** shows the topography of the TWP corridor with 10-foot contour intervals and areas of 20 percent or greater slope.

**4.j Wildlife habitat and migration corridors with a description of the ways wildlife use the site and the species involved, with proposed setbacks or other potential mitigation measures;**

Wildlife habitat and migration corridors within the TWP corridor and study buffer with description of the ways that wildlife use the site and the species involved, with proposed setback and other potential mitigation measures, can be found in the Natural and Cultural Resources Assessment Report and Addendum to the Natural and Cultural Resources Assessment in **Appendix C**. Wildlife figures (**Figure 3, Figures 5.1 through 5.55, Figure 6, Figure 7, and Figure Addendum-3**) can be found in that report.

**4.k Habitat for rare and endangered plants with species clearly indicated;**

Information on habitat for rare and endangered plants, and specifically the species within the TWP corridor and study buffer, can be found in the Natural and Cultural Resources Assessment Report in **Appendix C**.

**4.l Wildfire Hazards with location and classification shown;**

**Figure 4.l** shows wildfire hazards with location and classification in the area surrounding the TWP corridor. The TWP corridor is located outside of wildfire hazard areas. Additional information can be found in Section 8.c, Natural Hazard Mitigation Plan.

**4.m Sites and structures listed on the State and National Register of Historic Places;**

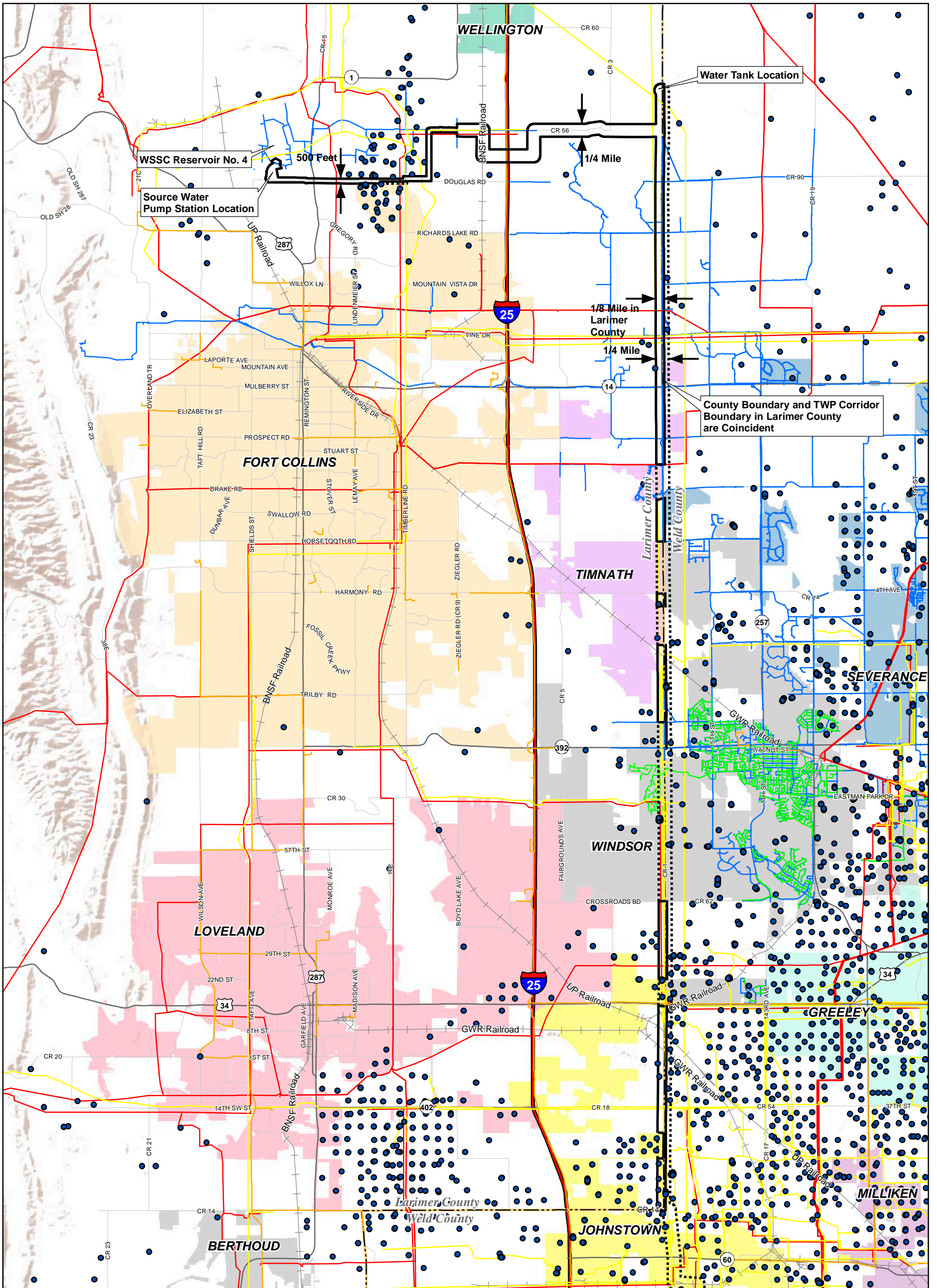
No cultural sites and structures listed on the State and National Register of Historic Places are located within the TWP corridor. Additional information can be found in the Natural and Cultural Resources Assessment Report and Addendum to the Natural and Cultural Resources Assessment in **Appendix C**. Figures showing the Office of Archaeology and Historic Preservation search results (**Figures 8.1 through 8.23**) can be found in that report.


**4.n Commercial Mineral Deposits with the type of mineral deposit indicated along with estimates of the quantity and quality of the mineral and the amount of overburden present.**

Commercial mineral deposits are not present within the TWP corridor. **Figure 4.n** shows locations of commercial mineral mines, active hard rock mines, sand and gravel construction mines, and other mines from the Division of Reclamation Mining and Safety. One active sand and gravel construction pit is shown on **Figure 4.n** within unincorporated Larimer County.



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Miles

1 in = 1.8 miles

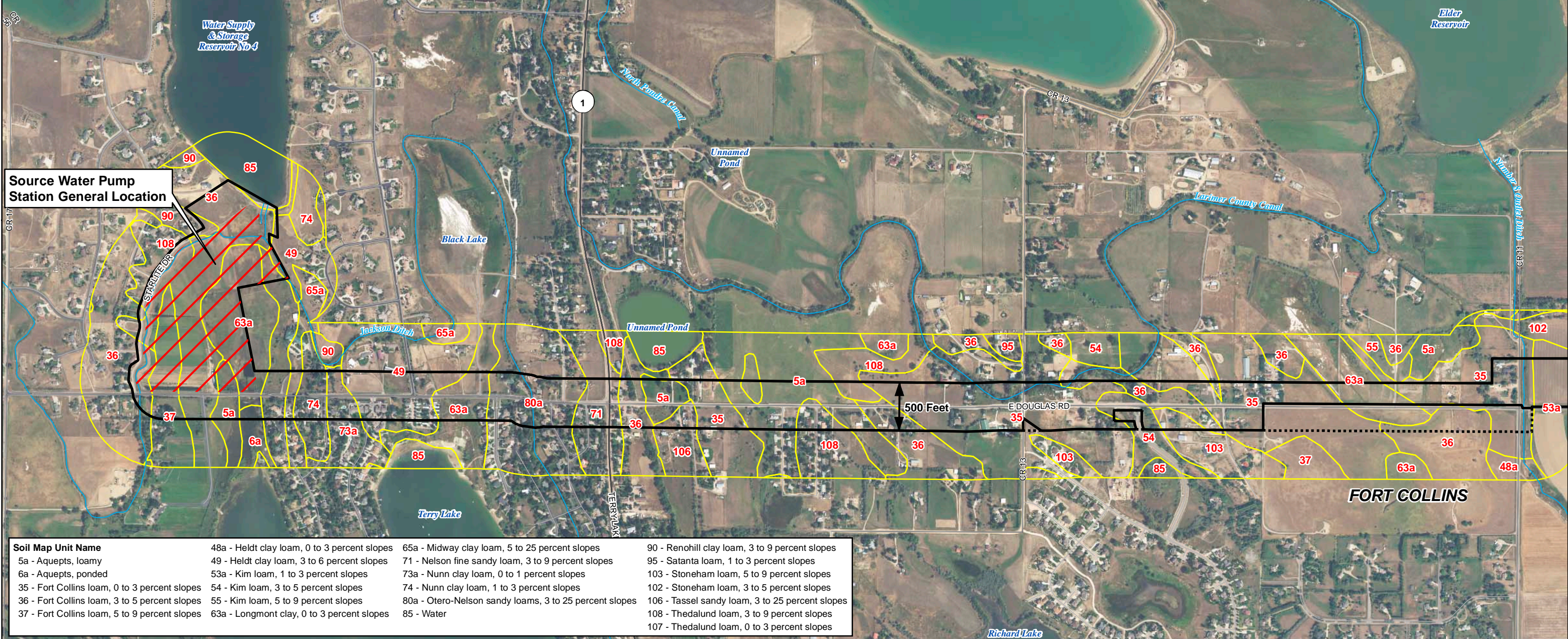
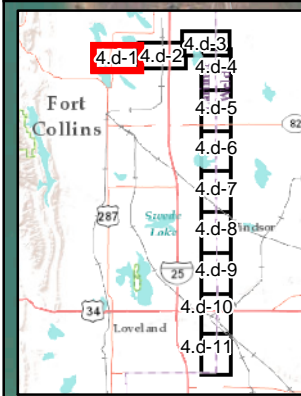
TWP Corridor in Unincorporated Larimer County	Electrical Transmission Line
TWP Corridor outside Unincorporated Larimer County	Telecommunications Line
County Boundary	Gas Line
Railroad	Water Pipeline
Oil and Gas Wells	Sanitary Sewer Line

**Figure 4.b  
Existing Utility  
Corridors**

Sources: Larimer and Weld Counties, CDOT, Xcel, Tri-State Power, Town of Windsor, Northern Colorado Water Conservancy District, NWCWD, ELCO Water District, Zayo

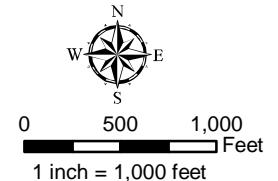


# Thornton Water Project



Soil Map Unit Name	48a - Heldt clay loam, 0 to 3 percent slopes	65a - Midway clay loam, 5 to 25 percent slopes	90 - Renohill clay loam, 3 to 9 percent slopes
5a - Aquepts, loamy	49 - Heldt clay loam, 3 to 6 percent slopes	71 - Nelson fine sandy loam, 3 to 9 percent slopes	95 - Satanta loam, 1 to 3 percent slopes
6a - Aquepts, ponded	53a - Kim loam, 1 to 3 percent slopes	73a - Nunn clay loam, 0 to 1 percent slopes	103 - Stoneham loam, 5 to 9 percent slopes
35 - Fort Collins loam, 0 to 3 percent slopes	54 - Kim loam, 3 to 5 percent slopes	74 - Nunn clay loam, 1 to 3 percent slopes	102 - Stoneham loam, 3 to 5 percent slopes
36 - Fort Collins loam, 3 to 5 percent slopes	55 - Kim loam, 5 to 9 percent slopes	80a - Otero-Nelson sandy loams, 3 to 25 percent slopes	106 - Tassel sandy loam, 3 to 25 percent slopes
37 - Fort Collins loam, 5 to 9 percent slopes	63a - Longmont clay, 0 to 3 percent slopes	85 - Water	108 - Thedalund loam, 3 to 9 percent slopes
			107 - Thedalund loam, 0 to 3 percent slopes

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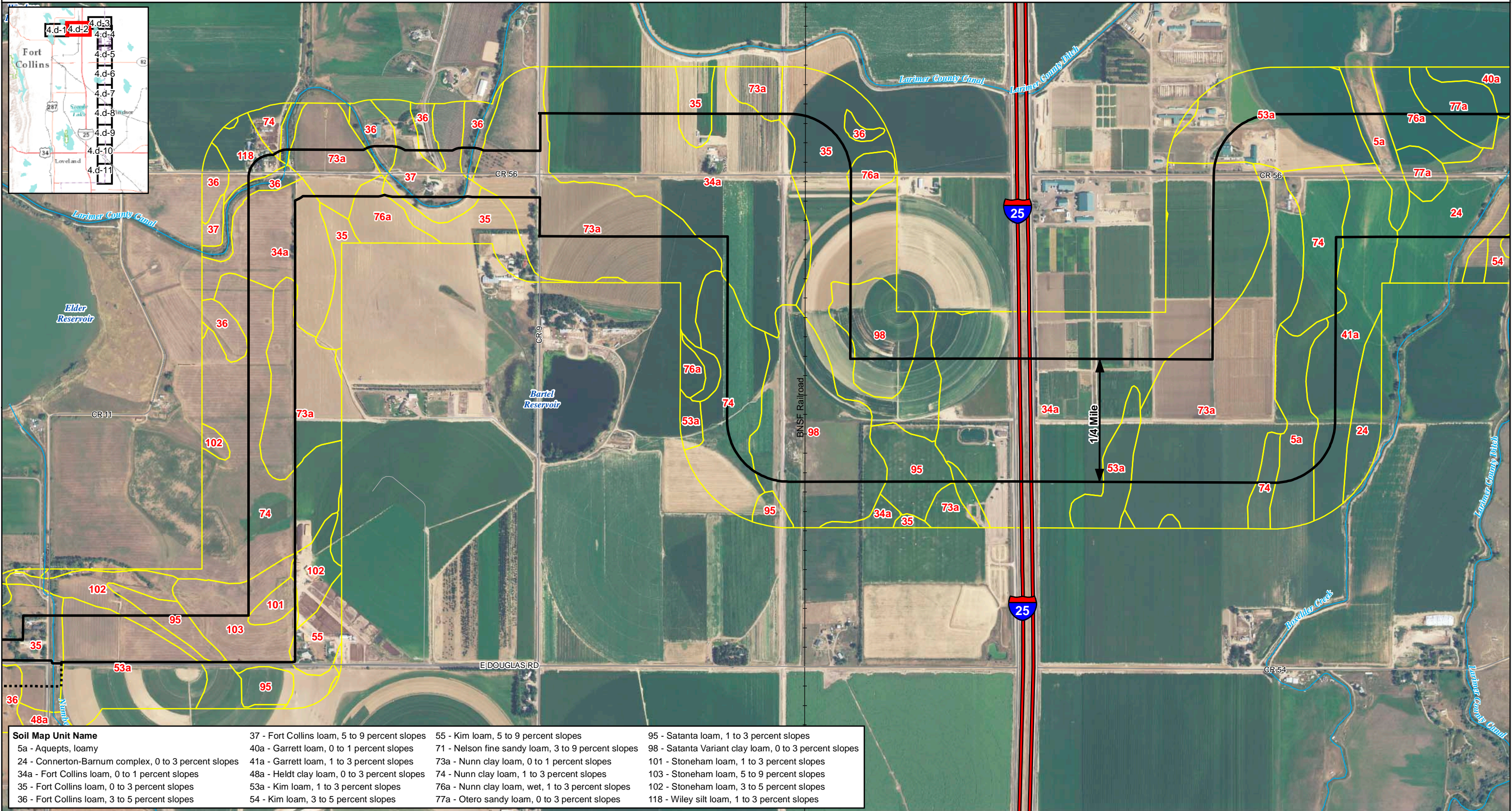
- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location
- Soil Map Unit
- Soil Map Unit Number

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

**Figure 4.d-1**  
**Soil Map**



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Soil Map Unit Name	Soil Map Unit Name	Soil Map Unit Name	Soil Map Unit Name
5a - Aquepts, loamy	37 - Fort Collins loam, 5 to 9 percent slopes	55 - Kim loam, 5 to 9 percent slopes	95 - Satanta loam, 1 to 3 percent slopes
24 - Connerton-Barnum complex, 0 to 3 percent slopes	40a - Garrett loam, 0 to 1 percent slopes	71 - Nelson fine sandy loam, 3 to 9 percent slopes	98 - Satanta Variant clay loam, 0 to 3 percent slopes
34a - Fort Collins loam, 0 to 1 percent slopes	41a - Garrett loam, 1 to 3 percent slopes	73a - Nunn clay loam, 0 to 1 percent slopes	101 - Stoneham loam, 1 to 3 percent slopes
35 - Fort Collins loam, 0 to 3 percent slopes	48a - Heldt clay loam, 0 to 3 percent slopes	74 - Nunn clay loam, 1 to 3 percent slopes	103 - Stoneham loam, 5 to 9 percent slopes
36 - Fort Collins loam, 3 to 5 percent slopes	53a - Kim loam, 1 to 3 percent slopes	76a - Nunn clay loam, wet, 1 to 3 percent slopes	102 - Stoneham loam, 3 to 5 percent slopes
	54 - Kim loam, 3 to 5 percent slopes	77a - Otero sandy loam, 0 to 3 percent slopes	118 - Wiley silt loam, 1 to 3 percent slopes

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0 500 1,000  
Feet  
1 inch = 1,000 feet

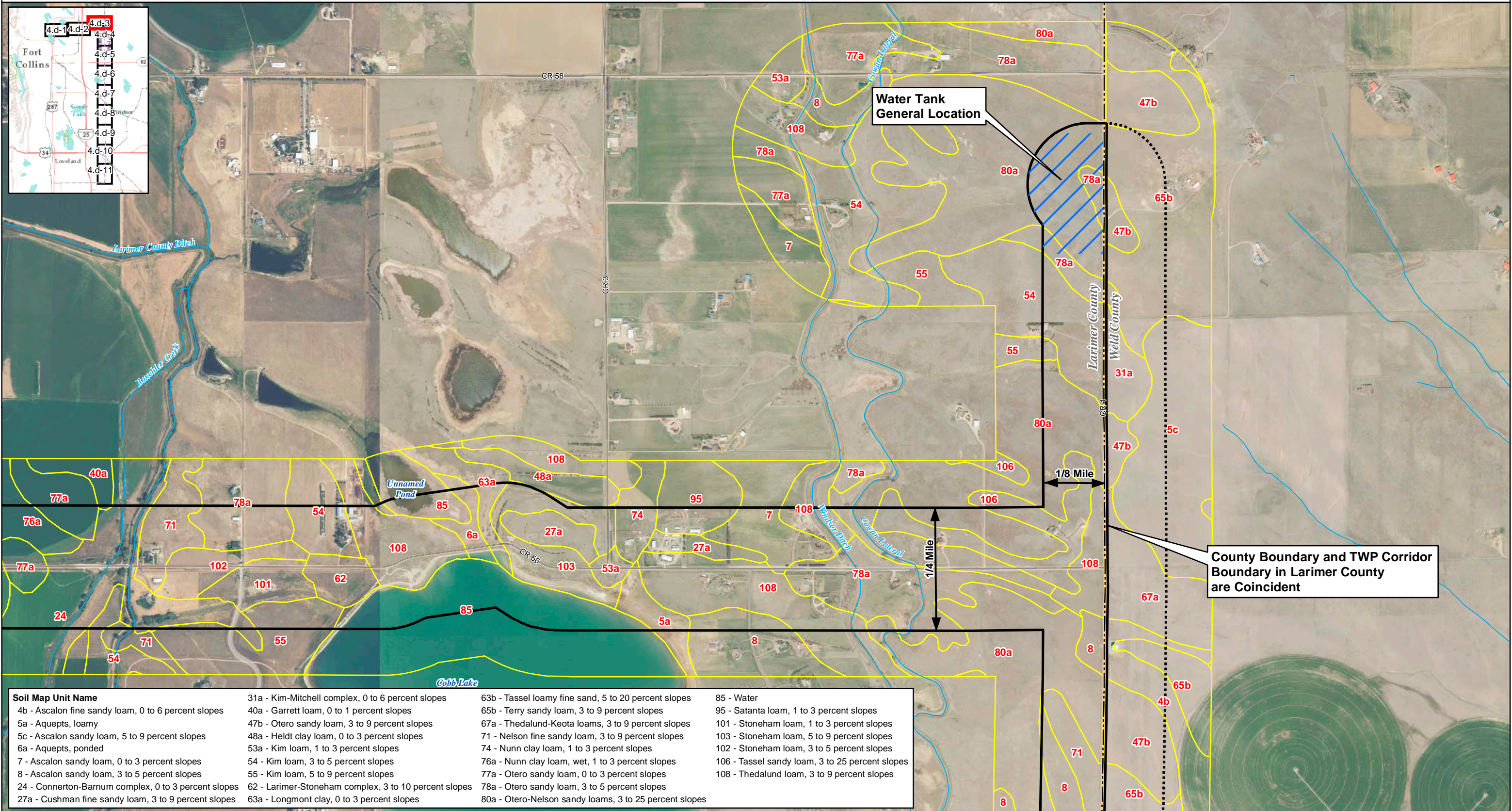
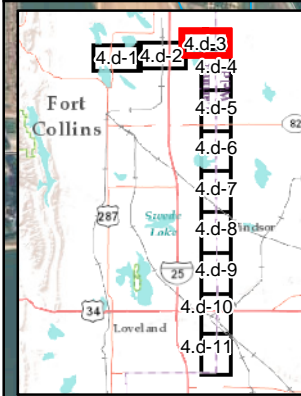
- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
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- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location
- Soil Map Unit
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**Figure 4.d-2  
Soil Map**

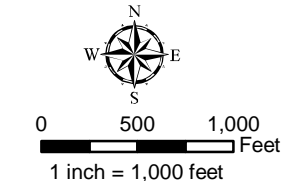


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Soil Map Unit Name	Soil Map Unit Name	Soil Map Unit Name	Soil Map Unit Name
4b - Ascalon fine sandy loam, 0 to 6 percent slopes	31a - Kim-Mitchell complex, 0 to 6 percent slopes	63b - Tassel loamy fine sand, 5 to 20 percent slopes	85 - Water
5a - Aquepts, loamy	40a - Garrett loam, 0 to 1 percent slopes	65b - Terry sandy loam, 3 to 9 percent slopes	95 - Satanta loam, 1 to 3 percent slopes
5c - Ascalon sandy loam, 5 to 9 percent slopes	47b - Otero sandy loam, 3 to 9 percent slopes	67a - Thedalund-Keota loams, 3 to 9 percent slopes	101 - Stoneham loam, 1 to 3 percent slopes
6a - Aquepts, ponded	48a - Heldt clay loam, 0 to 3 percent slopes	71 - Nelson fine sandy loam, 3 to 9 percent slopes	103 - Stoneham loam, 5 to 9 percent slopes
7 - Ascalon sandy loam, 0 to 3 percent slopes	53a - Kim loam, 1 to 3 percent slopes	74 - Nunn clay loam, 1 to 3 percent slopes	102 - Stoneham loam, 3 to 5 percent slopes
8 - Ascalon sandy loam, 3 to 5 percent slopes	54 - Kim loam, 3 to 5 percent slopes	76a - Nunn clay loam, wet, 1 to 3 percent slopes	106 - Tassel sandy loam, 3 to 25 percent slopes
24 - Connerton-Barnum complex, 0 to 3 percent slopes	55 - Kim loam, 5 to 9 percent slopes	77a - Otero sandy loam, 0 to 3 percent slopes	108 - Thedalund loam, 3 to 9 percent slopes
27a - Cushman fine sandy loam, 3 to 9 percent slopes	62 - Larimer-Stoneham complex, 3 to 10 percent slopes	78a - Otero sandy loam, 3 to 5 percent slopes	
	63a - Longmont clay, 0 to 3 percent slopes	80a - Otero-Nelson sandy loams, 3 to 25 percent slopes	

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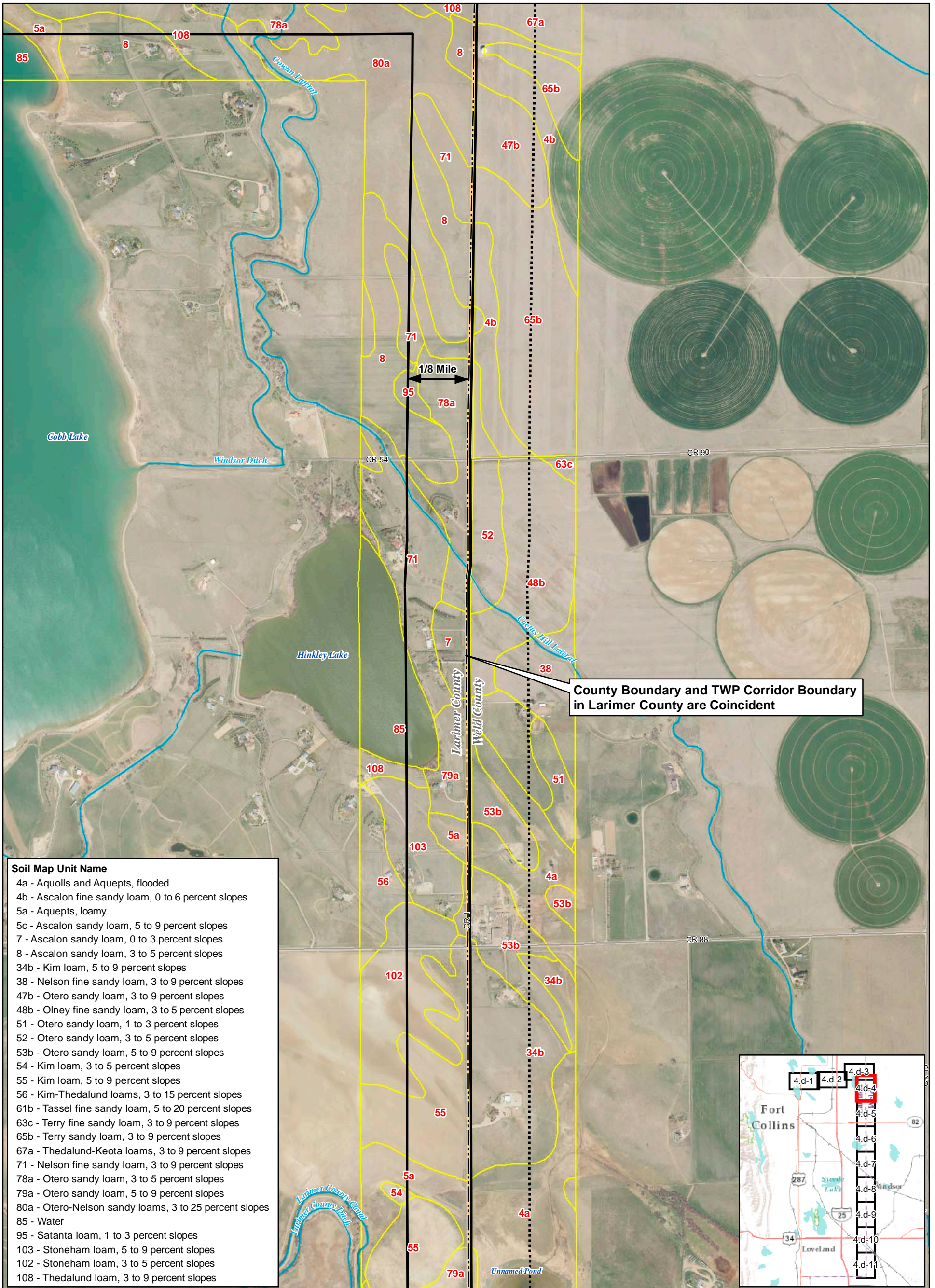
- TWP Corridor in Unincorporated Larimer County
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**Figure 4.d-3**  
**Soil Map**

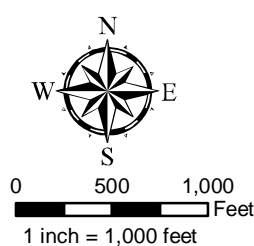


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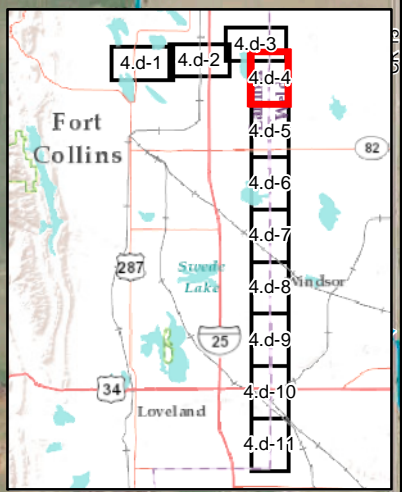


Soil Map Unit Name
4a - Aquolls and Aquepts, flooded
4b - Ascalon fine sandy loam, 0 to 6 percent slopes
5a - Aquepts, loamy
5c - Ascalon sandy loam, 5 to 9 percent slopes
7 - Ascalon sandy loam, 0 to 3 percent slopes
8 - Ascalon sandy loam, 3 to 5 percent slopes
34b - Kim loam, 5 to 9 percent slopes
38 - Nelson fine sandy loam, 3 to 9 percent slopes
47b - Otero sandy loam, 3 to 9 percent slopes
48b - Olney fine sandy loam, 3 to 5 percent slopes
51 - Otero sandy loam, 1 to 3 percent slopes
52 - Otero sandy loam, 3 to 5 percent slopes
53b - Otero sandy loam, 5 to 9 percent slopes
54 - Kim loam, 3 to 5 percent slopes
55 - Kim loam, 5 to 9 percent slopes
56 - Kim-Thedalund loams, 3 to 15 percent slopes
61b - Tassel fine sandy loam, 5 to 20 percent slopes
63c - Terry fine sandy loam, 3 to 9 percent slopes
65b - Terry sandy loam, 3 to 9 percent slopes
67a - Thedalund-Keota loams, 3 to 9 percent slopes
71 - Nelson fine sandy loam, 3 to 9 percent slopes
78a - Otero sandy loam, 3 to 5 percent slopes
79a - Otero sandy loam, 5 to 9 percent slopes
80a - Otero-Nelson sandy loams, 3 to 25 percent slopes
85 - Water
95 - Satanta loam, 1 to 3 percent slopes
103 - Stoneham loam, 5 to 9 percent slopes
102 - Stoneham loam, 3 to 5 percent slopes
108 - Thedalund loam, 3 to 9 percent slopes

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- \*Source Water Pump Station General Location
- Water Tank General Location
- Soil Map Unit
- 36 Soil Map Unit Number

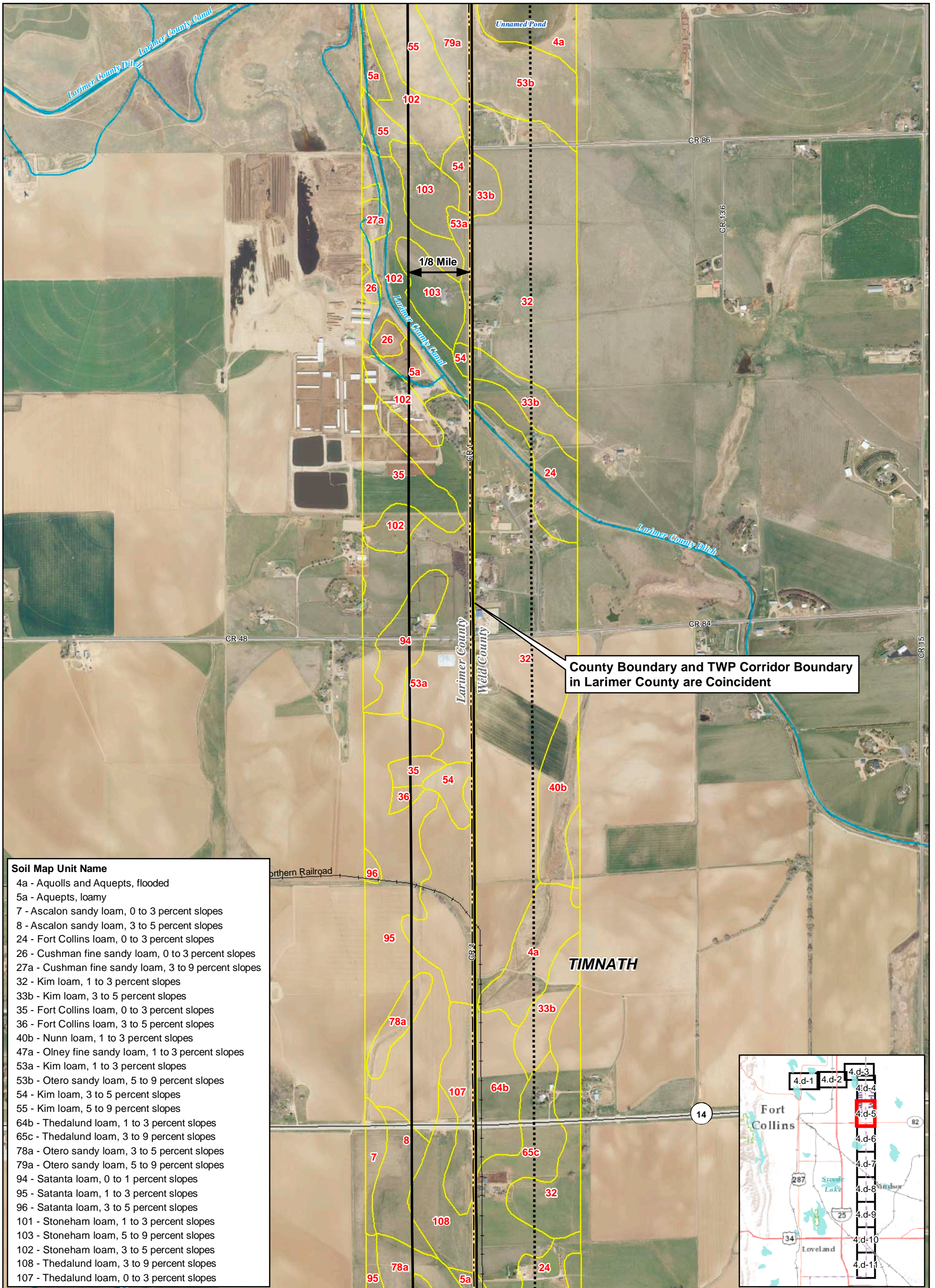


**Figure 4.d-4**  
**Soil Map**

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.



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1 inch = 1,000 feet

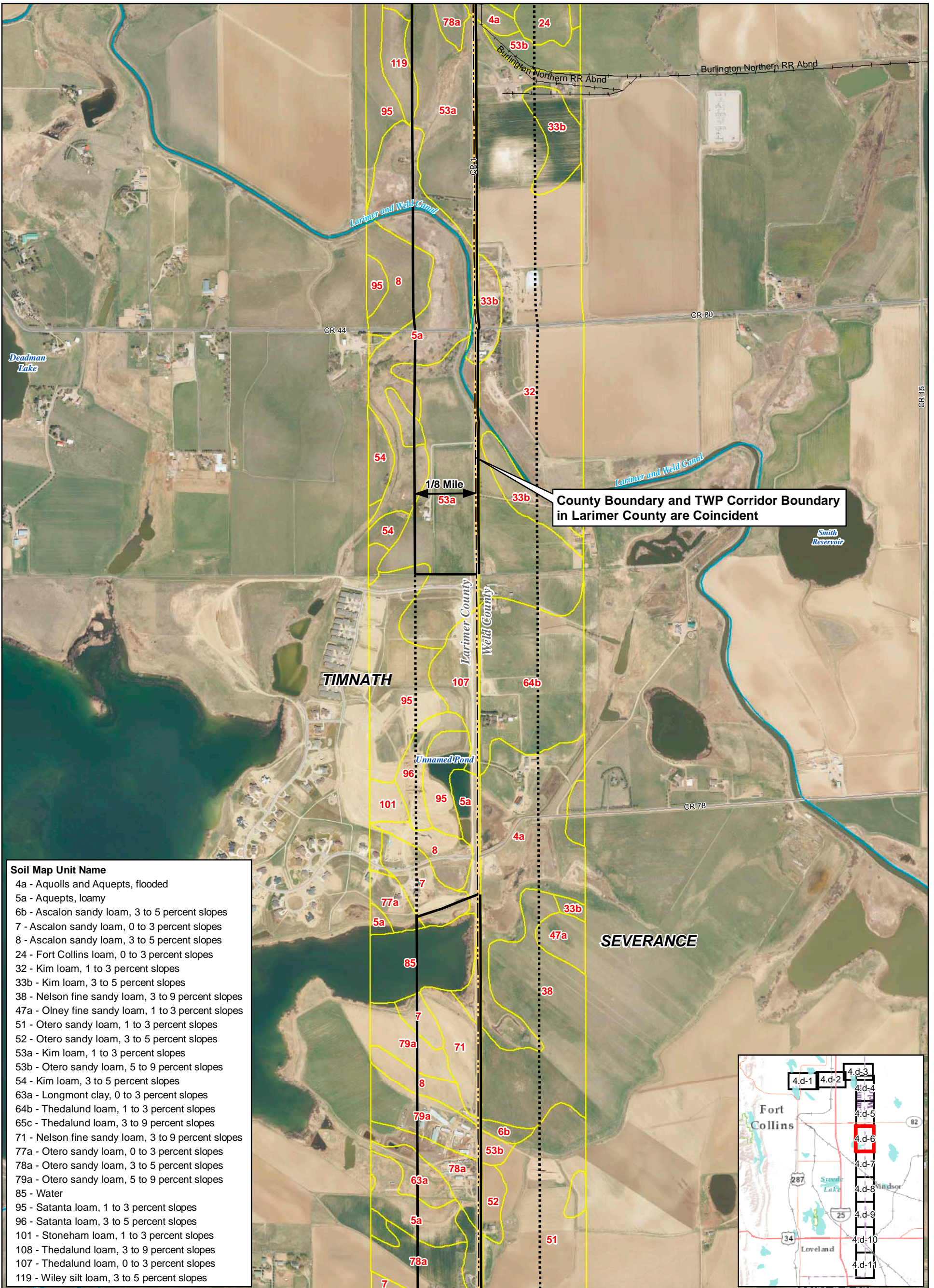
**Figure 4.d-5 Soil Map**

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT, NRCS, DRCOG, NAIP

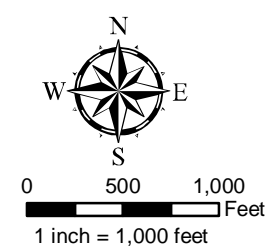


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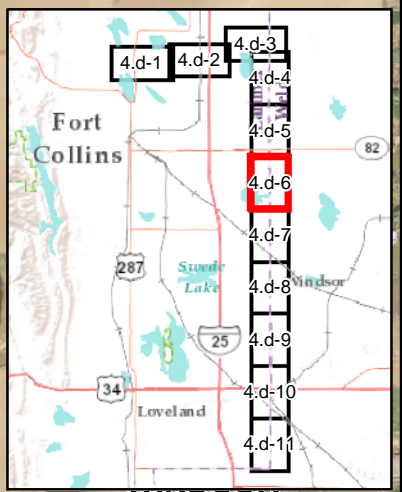


Soil Map Unit Name
4a - Aquolls and Aquepts, flooded
5a - Aquepts, loamy
6b - Ascalon sandy loam, 3 to 5 percent slopes
7 - Ascalon sandy loam, 0 to 3 percent slopes
8 - Ascalon sandy loam, 3 to 5 percent slopes
24 - Fort Collins loam, 0 to 3 percent slopes
32 - Kim loam, 1 to 3 percent slopes
33b - Kim loam, 3 to 5 percent slopes
38 - Nelson fine sandy loam, 3 to 9 percent slopes
47a - Olney fine sandy loam, 1 to 3 percent slopes
51 - Otero sandy loam, 1 to 3 percent slopes
52 - Otero sandy loam, 3 to 5 percent slopes
53a - Kim loam, 1 to 3 percent slopes
53b - Otero sandy loam, 5 to 9 percent slopes
54 - Kim loam, 3 to 5 percent slopes
63a - Longmont clay, 0 to 3 percent slopes
64b - Thedalund loam, 1 to 3 percent slopes
65c - Thedalund loam, 3 to 9 percent slopes
71 - Nelson fine sandy loam, 3 to 9 percent slopes
77a - Otero sandy loam, 0 to 3 percent slopes
78a - Otero sandy loam, 3 to 5 percent slopes
79a - Otero sandy loam, 5 to 9 percent slopes
85 - Water
95 - Satanta loam, 1 to 3 percent slopes
96 - Satanta loam, 3 to 5 percent slopes
101 - Stoneham loam, 1 to 3 percent slopes
108 - Thedalund loam, 3 to 9 percent slopes
107 - Thedalund loam, 0 to 3 percent slopes
119 - Wiley silt loam, 3 to 5 percent slopes

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- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location
- Soil Map Unit
- 36 Soil Map Unit Number

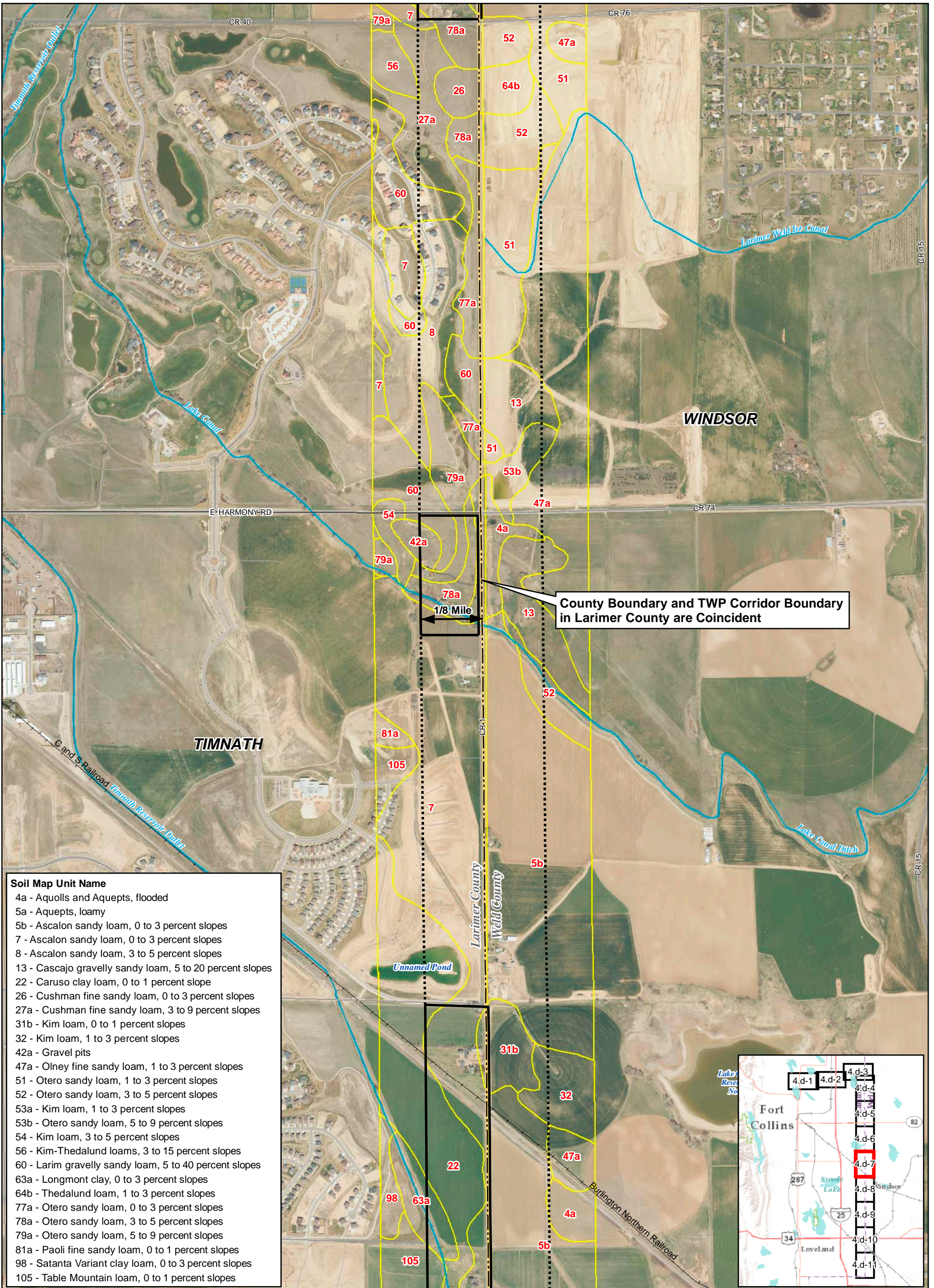


**Figure 4.d-6 Soil Map**

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.



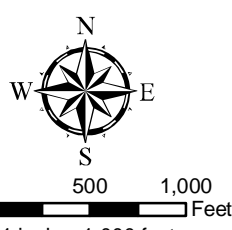
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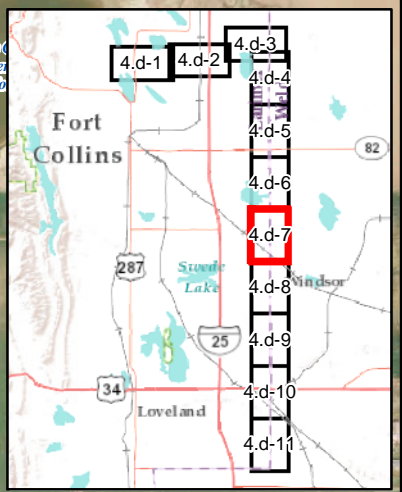
County Boundary and TWP Corridor Boundary in Larimer County are Coincident

Soil Map Unit Name
4a - Aquolls and Aquepts, flooded
5a - Aquepts, loamy
5b - Ascalon sandy loam, 0 to 3 percent slopes
7 - Ascalon sandy loam, 0 to 3 percent slopes
8 - Ascalon sandy loam, 3 to 5 percent slopes
13 - Cascajo gravelly sandy loam, 5 to 20 percent slopes
22 - Caruso clay loam, 0 to 1 percent slope
26 - Cushman fine sandy loam, 0 to 3 percent slopes
27a - Cushman fine sandy loam, 3 to 9 percent slopes
31b - Kim loam, 0 to 1 percent slopes
32 - Kim loam, 1 to 3 percent slopes
42a - Gravel pits
47a - Olney fine sandy loam, 1 to 3 percent slopes
51 - Otero sandy loam, 1 to 3 percent slopes
52 - Otero sandy loam, 3 to 5 percent slopes
53a - Kim loam, 1 to 3 percent slopes
53b - Otero sandy loam, 5 to 9 percent slopes
54 - Kim loam, 3 to 5 percent slopes
56 - Kim-Thedalund loams, 3 to 15 percent slopes
60 - Larim gravelly sandy loam, 5 to 40 percent slopes
63a - Longmont clay, 0 to 3 percent slopes
64b - Thedalund loam, 1 to 3 percent slopes
77a - Otero sandy loam, 0 to 3 percent slopes
78a - Otero sandy loam, 3 to 5 percent slopes
79a - Otero sandy loam, 5 to 9 percent slopes
81a - Paoli fine sandy loam, 0 to 1 percent slopes
98 - Satanta Variant clay loam, 0 to 3 percent slopes
105 - Table Mountain loam, 0 to 1 percent slopes

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- \*Source Water Pump Station General Location
- Water Tank General Location
- Soil Map Unit
- 36 Soil Map Unit Number

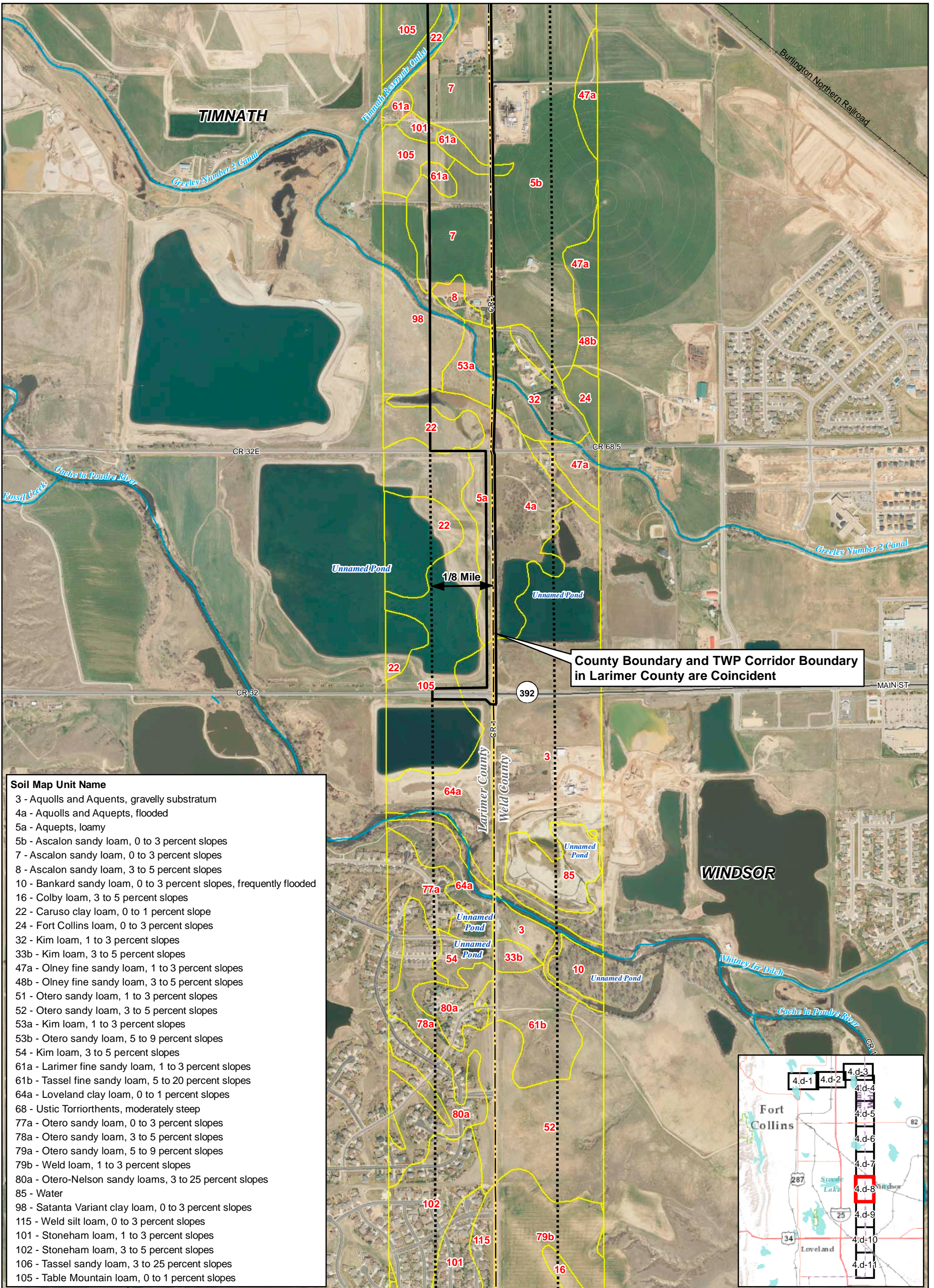


**Figure 4.d-7 Soil Map**

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.



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**Soil Map Unit Name**

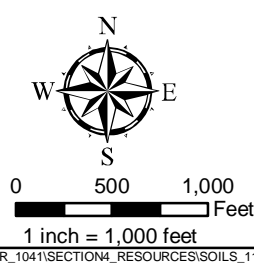
- 3 - Aquolls and Aquepts, gravelly substratum
- 4a - Aquolls and Aquepts, flooded
- 5a - Aquepts, loamy
- 5b - Ascalon sandy loam, 0 to 3 percent slopes
- 7 - Ascalon sandy loam, 0 to 3 percent slopes
- 8 - Ascalon sandy loam, 3 to 5 percent slopes
- 10 - Bankard sandy loam, 0 to 3 percent slopes, frequently flooded
- 16 - Colby loam, 3 to 5 percent slopes
- 22 - Caruso clay loam, 0 to 1 percent slope
- 24 - Fort Collins loam, 0 to 3 percent slopes
- 32 - Kim loam, 1 to 3 percent slopes
- 33b - Kim loam, 3 to 5 percent slopes
- 47a - Olney fine sandy loam, 1 to 3 percent slopes
- 48b - Olney fine sandy loam, 3 to 5 percent slopes
- 51 - Otero sandy loam, 1 to 3 percent slopes
- 52 - Otero sandy loam, 3 to 5 percent slopes
- 53a - Kim loam, 1 to 3 percent slopes
- 53b - Otero sandy loam, 5 to 9 percent slopes
- 54 - Kim loam, 3 to 5 percent slopes
- 61a - Larimer fine sandy loam, 1 to 3 percent slopes
- 61b - Tassel fine sandy loam, 5 to 20 percent slopes
- 64a - Loveland clay loam, 0 to 1 percent slopes
- 68 - Ustic Torriorthents, moderately steep
- 77a - Otero sandy loam, 0 to 3 percent slopes
- 78a - Otero sandy loam, 3 to 5 percent slopes
- 79a - Otero sandy loam, 5 to 9 percent slopes
- 79b - Weld loam, 1 to 3 percent slopes
- 80a - Otero-Nelson sandy loams, 3 to 25 percent slopes
- 85 - Water
- 98 - Satanta Variant clay loam, 0 to 3 percent slopes
- 115 - Weld silt loam, 0 to 3 percent slopes
- 101 - Stoneham loam, 1 to 3 percent slopes
- 102 - Stoneham loam, 3 to 5 percent slopes
- 106 - Tassel sandy loam, 3 to 25 percent slopes
- 105 - Table Mountain loam, 0 to 1 percent slopes

**County Boundary and TWP Corridor Boundary in Larimer County are Coincident**

**CITY OF THORNTON COLORADO**

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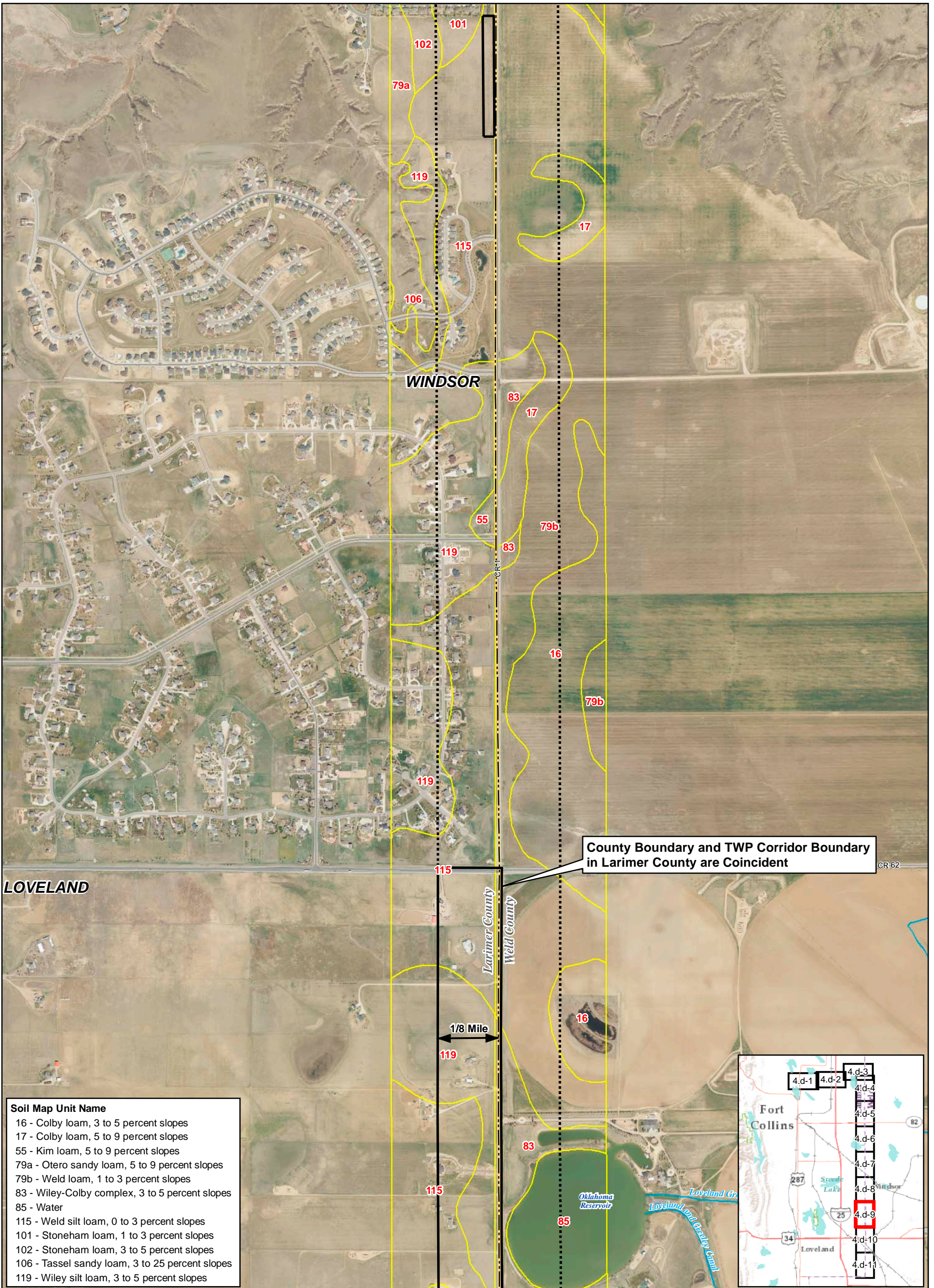
- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location
- Soil Map Unit
- 36 Soil Map Unit Number

**Figure 4.d-8 Soil Map**

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.



# Thornton Water Project

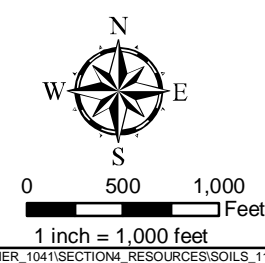


Soil Map Unit Name
16 - Colby loam, 3 to 5 percent slopes
17 - Colby loam, 5 to 9 percent slopes
55 - Kim loam, 5 to 9 percent slopes
79a - Otero sandy loam, 5 to 9 percent slopes
79b - Weld loam, 1 to 3 percent slopes
83 - Wiley-Colby complex, 3 to 5 percent slopes
85 - Water
115 - Weld silt loam, 0 to 3 percent slopes
101 - Stoneham loam, 1 to 3 percent slopes
102 - Stoneham loam, 3 to 5 percent slopes
106 - Tassel sandy loam, 3 to 25 percent slopes
119 - Wiley silt loam, 3 to 5 percent slopes

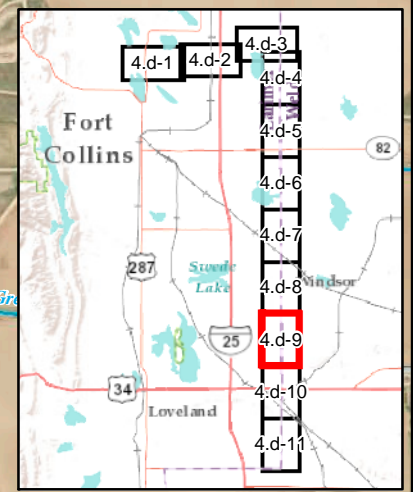
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COLORADO**

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- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location
- Soil Map Unit
- 36 Soil Map Unit Number

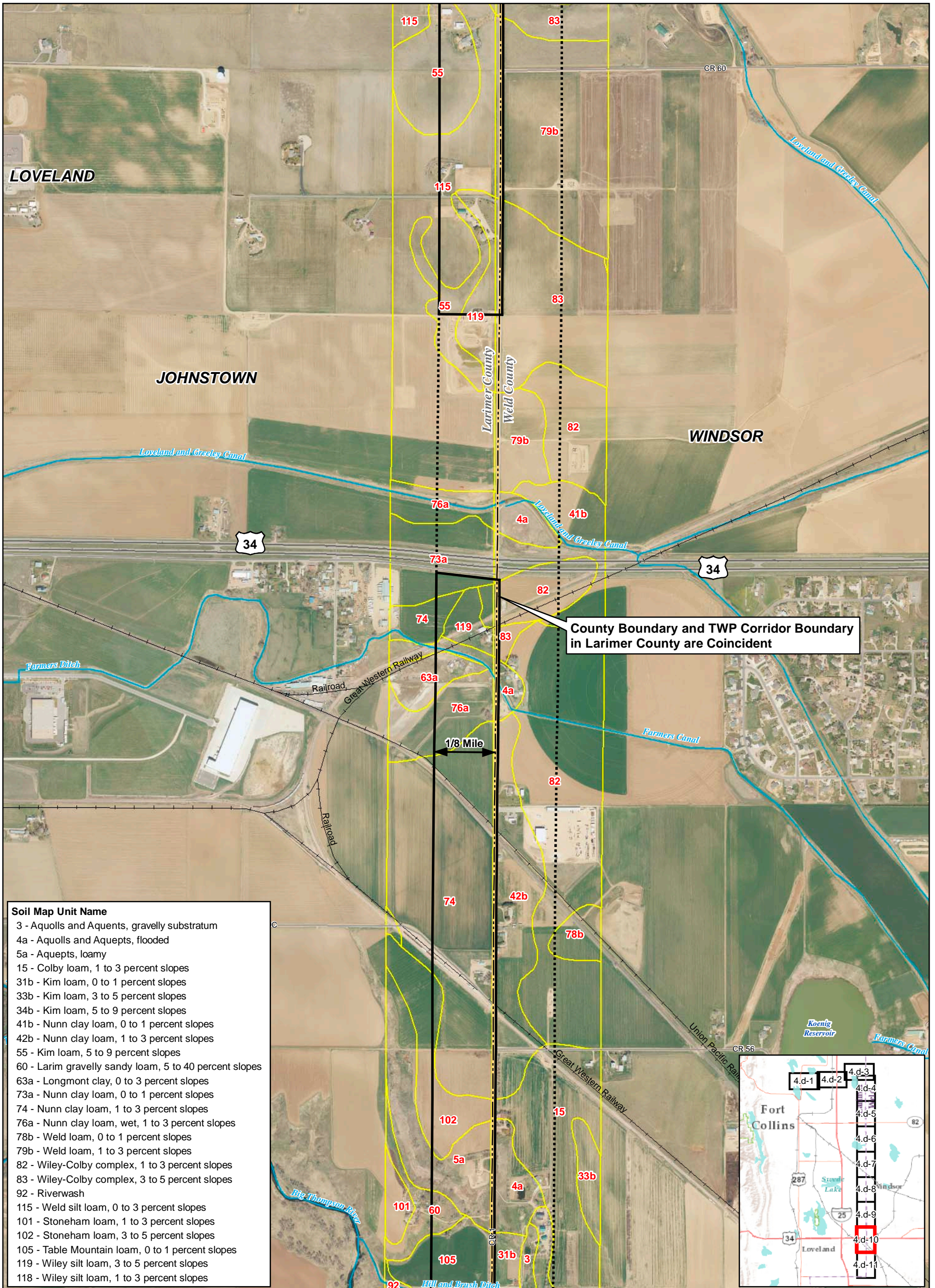


**Figure 4.d-9  
Soil Map**

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

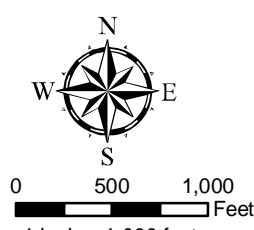


# Thornton Water Project



Soil Map Unit Name
3 - Aquolls and Aquepts, gravelly substratum
4a - Aquolls and Aquepts, flooded
5a - Aquepts, loamy
15 - Colby loam, 1 to 3 percent slopes
31b - Kim loam, 0 to 1 percent slopes
33b - Kim loam, 3 to 5 percent slopes
34b - Kim loam, 5 to 9 percent slopes
41b - Nunn clay loam, 0 to 1 percent slopes
42b - Nunn clay loam, 1 to 3 percent slopes
55 - Kim loam, 5 to 9 percent slopes
60 - Larim gravelly sandy loam, 5 to 40 percent slopes
63a - Longmont clay, 0 to 3 percent slopes
73a - Nunn clay loam, 0 to 1 percent slopes
74 - Nunn clay loam, 1 to 3 percent slopes
76a - Nunn clay loam, wet, 1 to 3 percent slopes
78b - Weld loam, 0 to 1 percent slopes
79b - Weld loam, 1 to 3 percent slopes
82 - Wiley-Colby complex, 1 to 3 percent slopes
83 - Wiley-Colby complex, 3 to 5 percent slopes
92 - Riverwash
115 - Weld silt loam, 0 to 3 percent slopes
101 - Stoneham loam, 1 to 3 percent slopes
102 - Stoneham loam, 3 to 5 percent slopes
105 - Table Mountain loam, 0 to 1 percent slopes
119 - Wiley silt loam, 3 to 5 percent slopes
118 - Wiley silt loam, 1 to 3 percent slopes

**CITY OF THORNTON COLORADO**  
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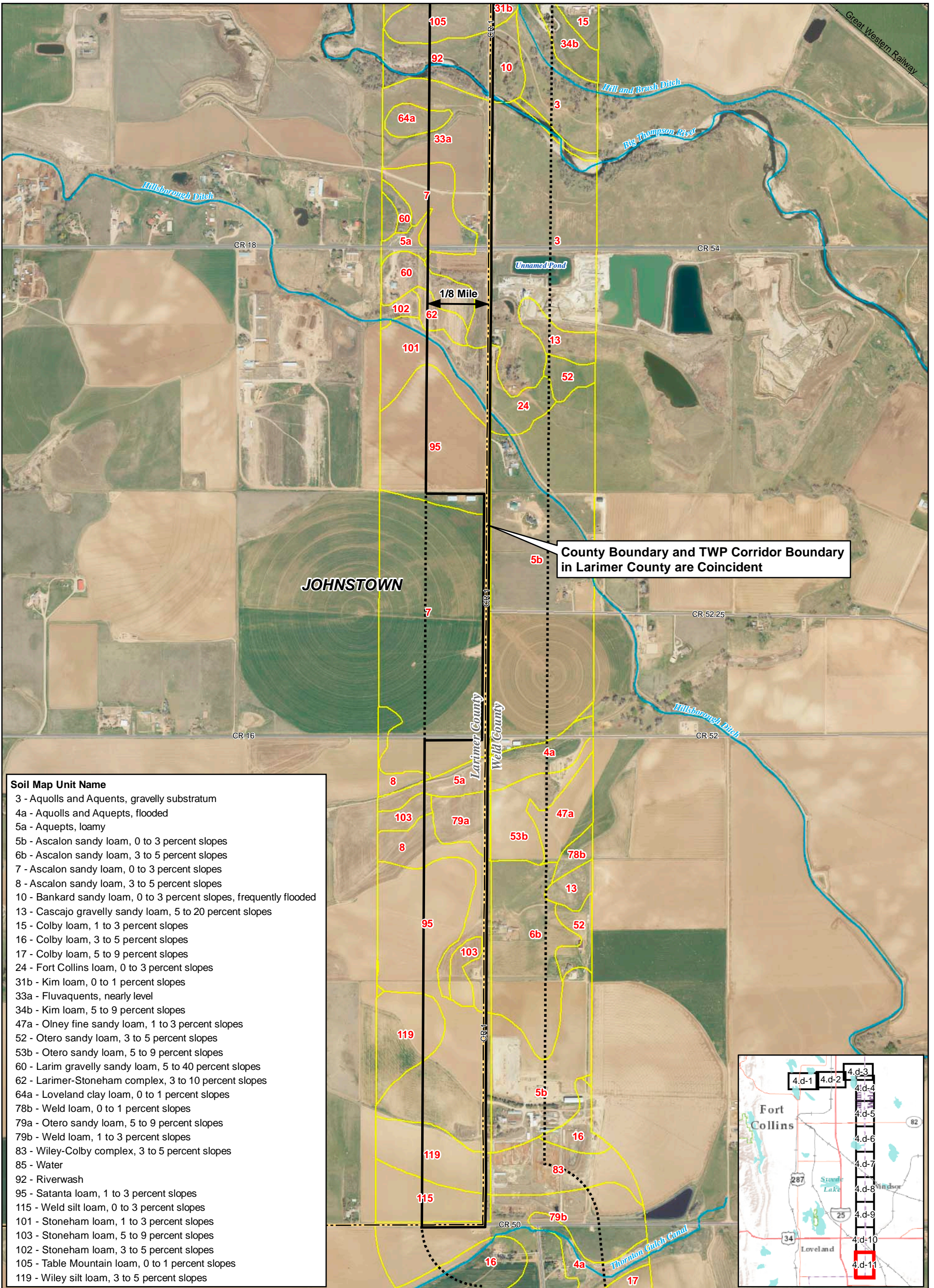
- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location
- Soil Map Unit
- 36 Soil Map Unit Number

**Figure 4.d-10 Soil Map**

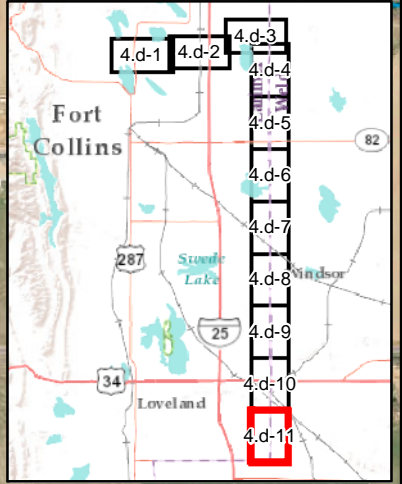
\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.



# Thornton Water Project



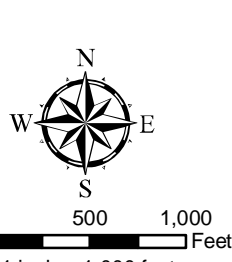
Soil Map Unit Name
3 - Aquolls and Aquepts, gravelly substratum
4a - Aquolls and Aquepts, flooded
5a - Aquepts, loamy
5b - Ascalon sandy loam, 0 to 3 percent slopes
6b - Ascalon sandy loam, 3 to 5 percent slopes
7 - Ascalon sandy loam, 0 to 3 percent slopes
8 - Ascalon sandy loam, 3 to 5 percent slopes
10 - Bankard sandy loam, 0 to 3 percent slopes, frequently flooded
13 - Cascajo gravelly sandy loam, 5 to 20 percent slopes
15 - Colby loam, 1 to 3 percent slopes
16 - Colby loam, 3 to 5 percent slopes
17 - Colby loam, 5 to 9 percent slopes
24 - Fort Collins loam, 0 to 3 percent slopes
31b - Kim loam, 0 to 1 percent slopes
33a - Fluvaquents, nearly level
34b - Kim loam, 5 to 9 percent slopes
47a - Olney fine sandy loam, 1 to 3 percent slopes
52 - Otero sandy loam, 3 to 5 percent slopes
53b - Otero sandy loam, 5 to 9 percent slopes
60 - Larim gravelly sandy loam, 5 to 40 percent slopes
62 - Larimer-Stoneham complex, 3 to 10 percent slopes
64a - Loveland clay loam, 0 to 1 percent slopes
78b - Weld loam, 0 to 1 percent slopes
79a - Otero sandy loam, 5 to 9 percent slopes
79b - Weld loam, 1 to 3 percent slopes
83 - Wiley-Colby complex, 3 to 5 percent slopes
85 - Water
92 - Riverwash
95 - Satanta loam, 1 to 3 percent slopes
115 - Weld silt loam, 0 to 3 percent slopes
101 - Stoneham loam, 1 to 3 percent slopes
103 - Stoneham loam, 5 to 9 percent slopes
102 - Stoneham loam, 3 to 5 percent slopes
105 - Table Mountain loam, 0 to 1 percent slopes
119 - Wiley silt loam, 3 to 5 percent slopes



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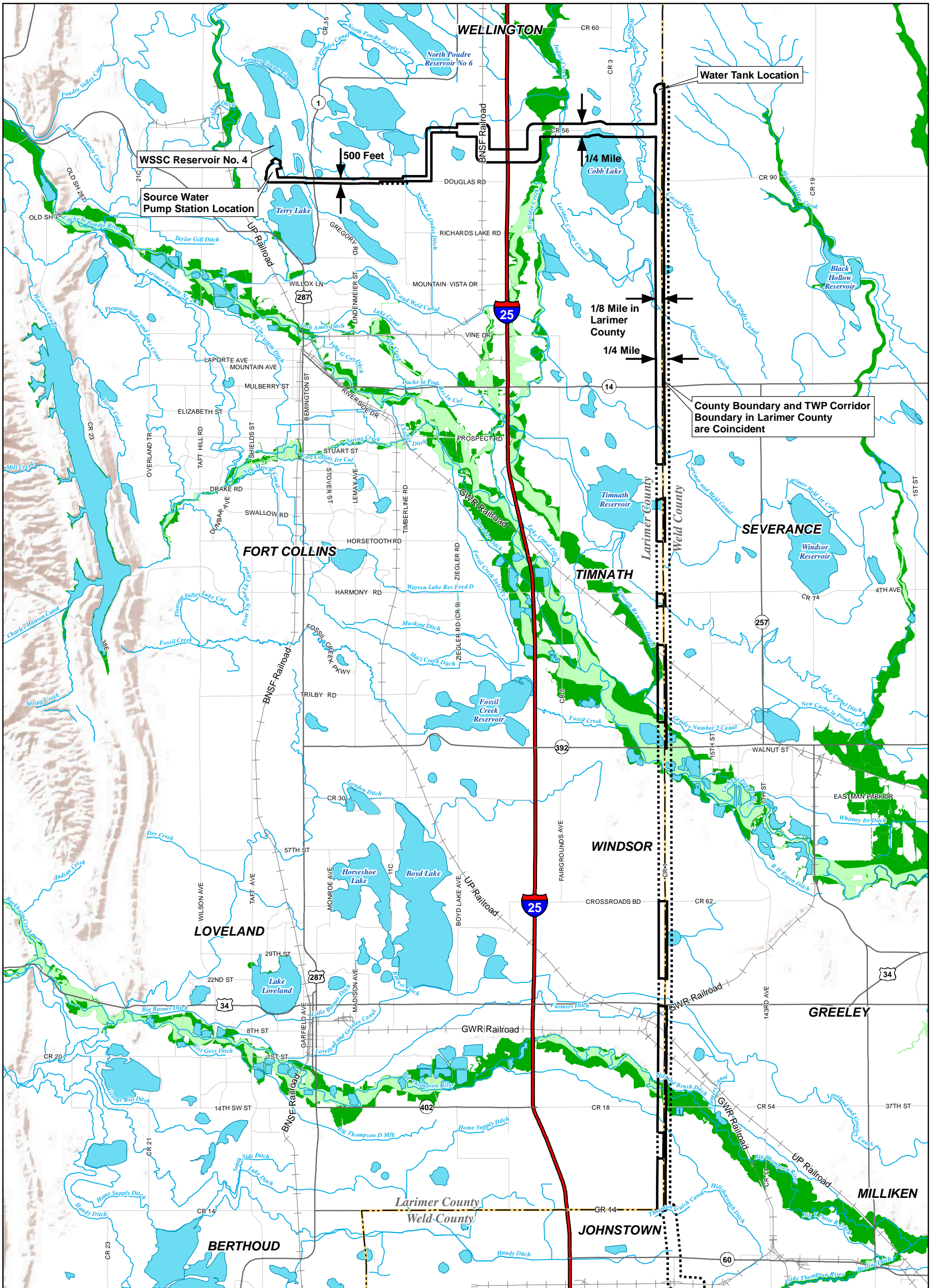
- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location
- Soil Map Unit
- 36 Soil Map Unit Number

**Figure 4.d-11 Soil Map**

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.



# Thornton Water Project



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0 0.9 1.8  
Miles

1 in = 1.8 miles

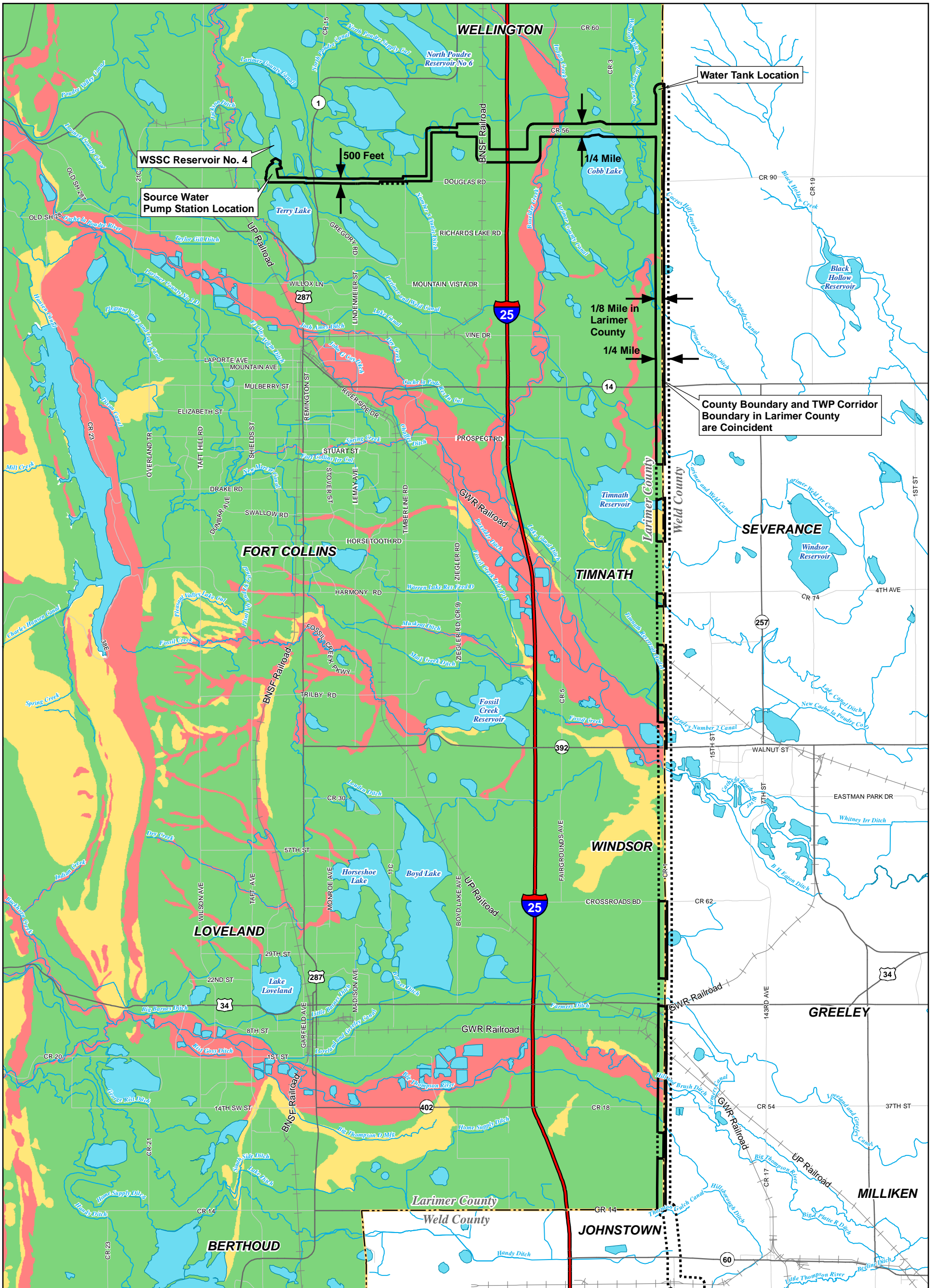
- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- Lake/Reservoir
- River/Stream/Canal/Ditch
- 100-yr Flood Fringe
- 100-yr Floodway

**Figure 4.e  
100-yr Floodplain**

Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT, FEMA



# Thornton Water Project



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0 0.9 1.8  
Miles  
1 in = 1.8 miles

- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- Lake/Reservoir
- River/Stream/Canal/Ditch

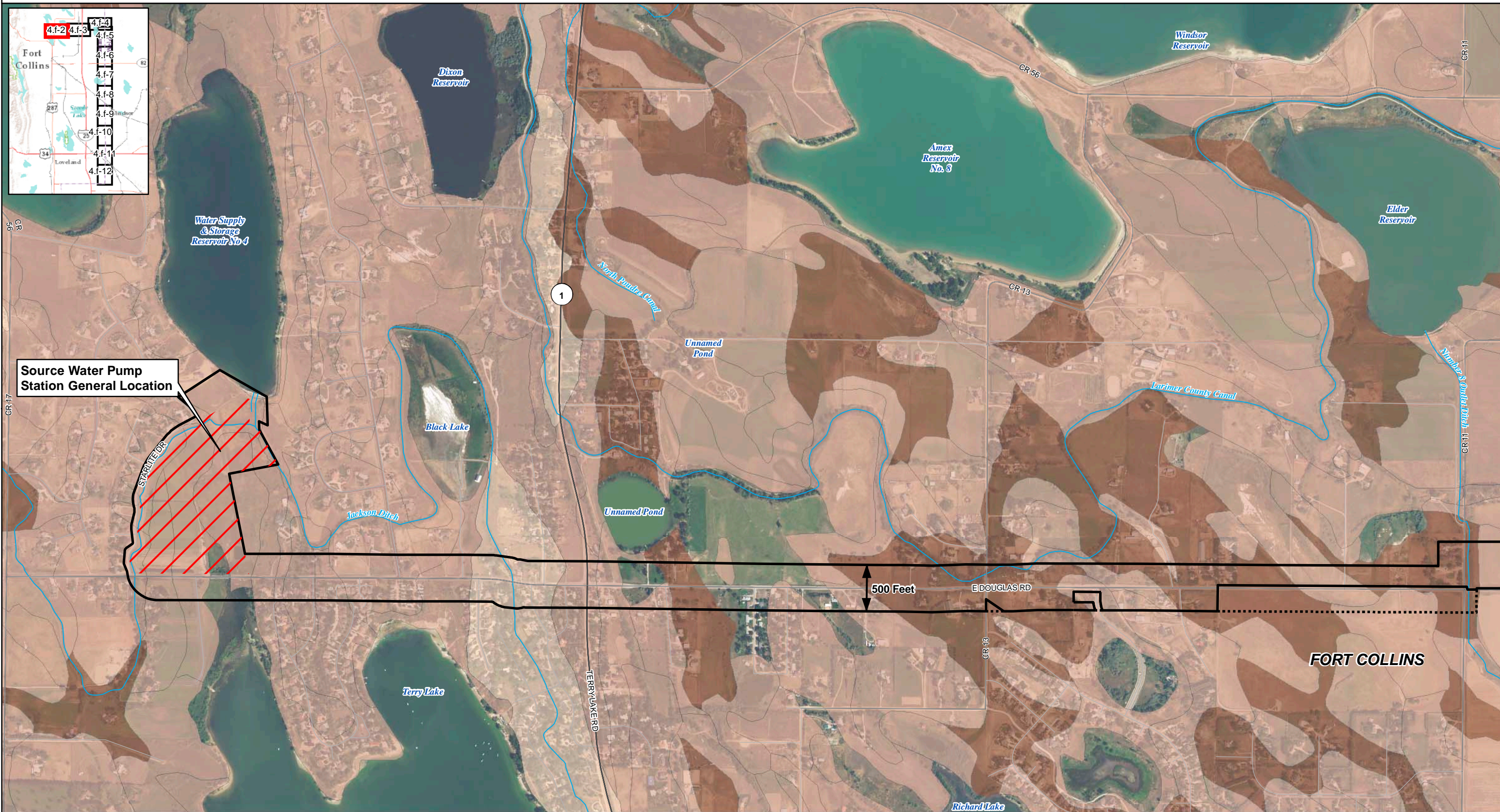
- Geologic Hazard**
- Severe (Class 5, 6, 7)
  - Moderate (Class 3, 4)
  - Low

**Figure 4.f-1  
Geologic Hazards**

Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT



# Thornton Water Project



Source Water Pump Station General Location

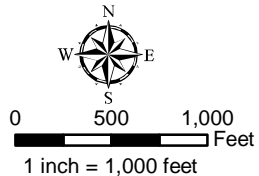
500 Feet

FORT COLLINS



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- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad

- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location

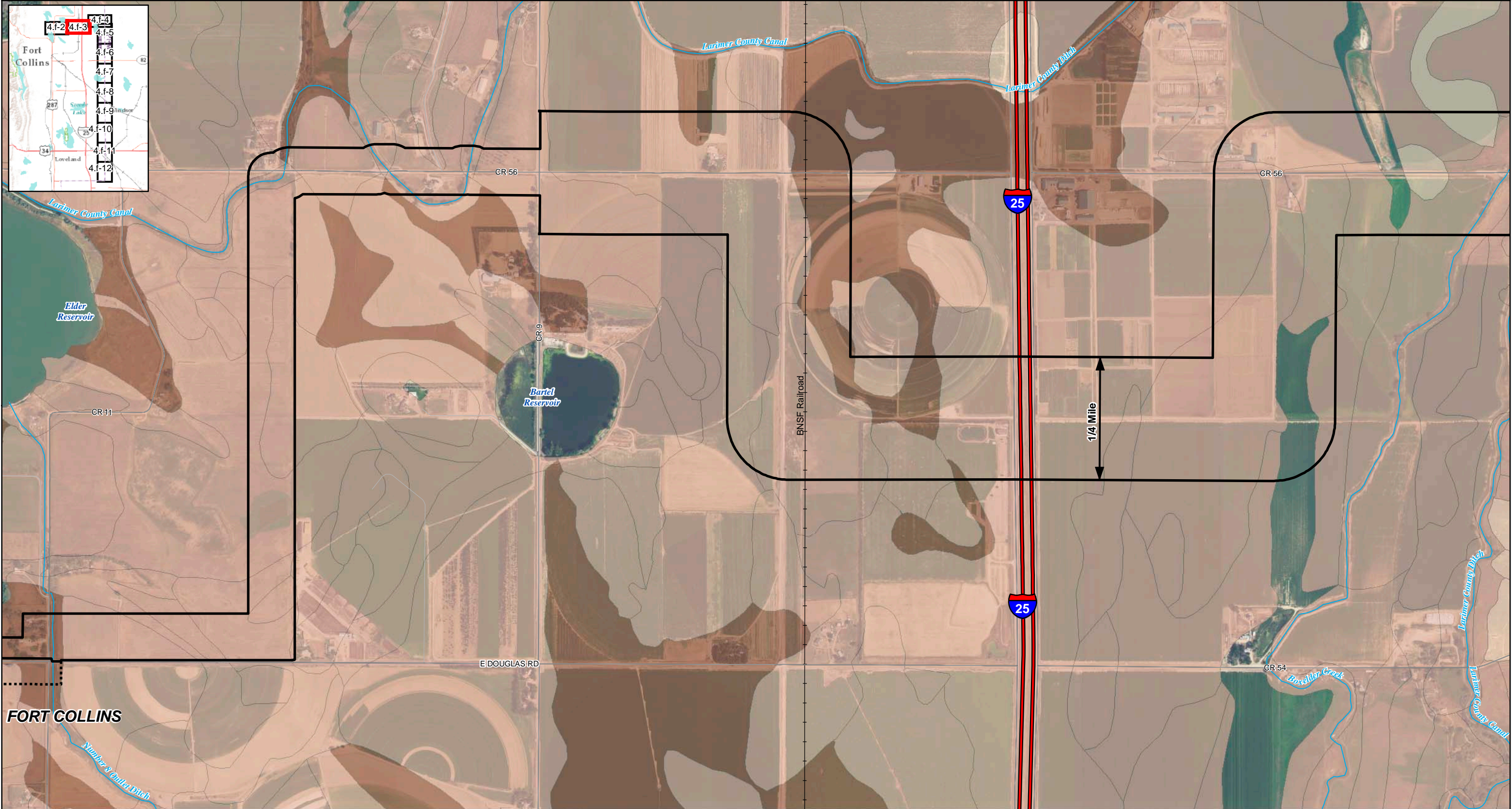
- Soil Erodibility (K Factor)**
- No Value
  - Low (<0.20)
  - Medium (0.20 - 0.40)
  - High (>0.40)

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

**Figure 4.f-2  
Soil Erodibility Map**

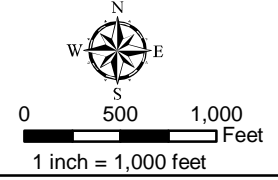


# Thornton Water Project



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- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \* Source Water Pump Station General Location
- . Water Tank General Location

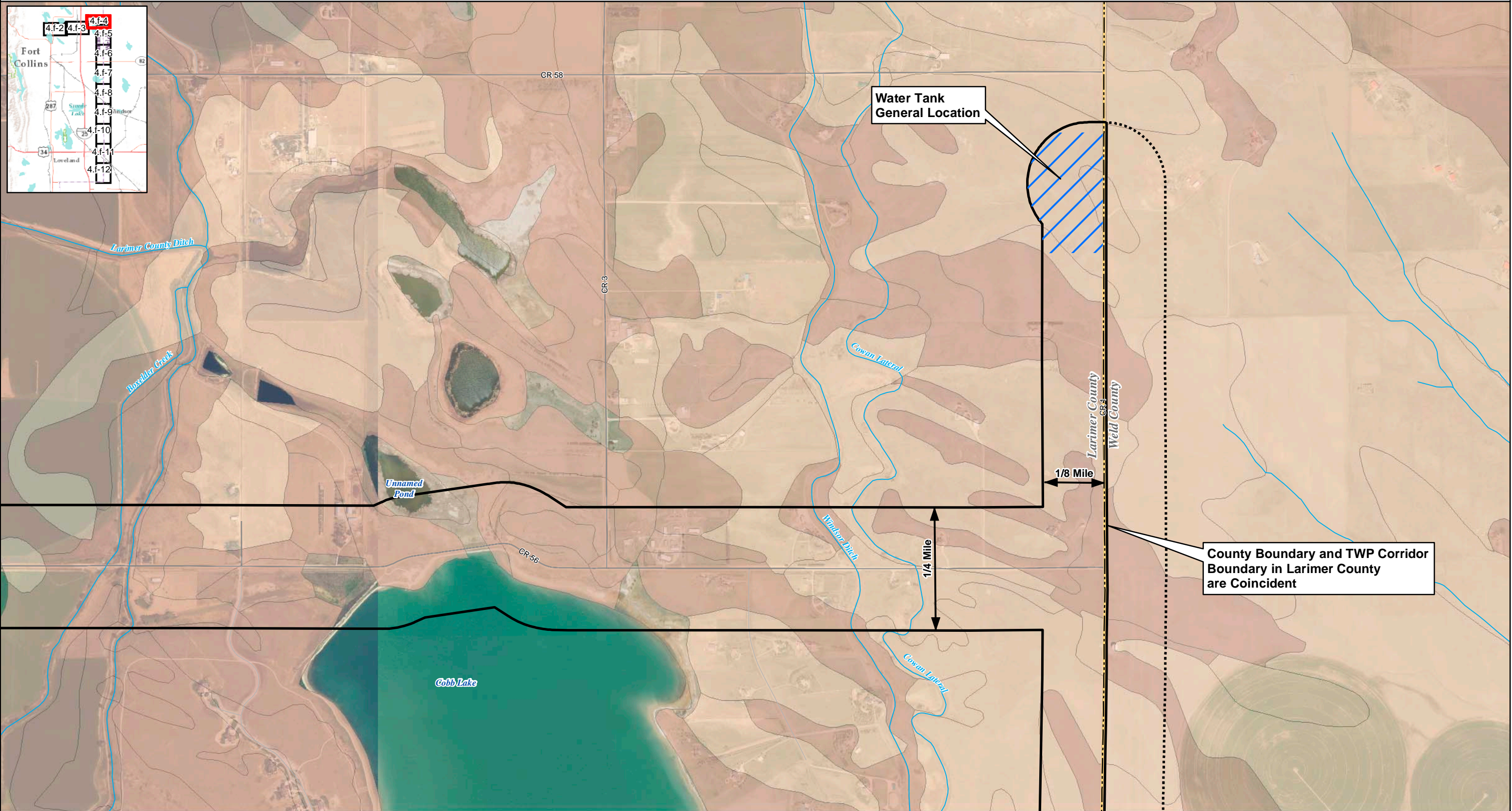
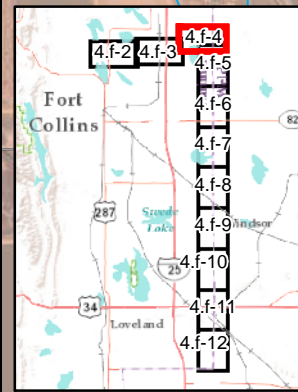
- Soil Erodibility (K Factor)**
- No Value
  - Low (<0.20)
  - Medium (0.20 - 0.40)
  - High (>0.40)

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

**Figure 4.f-3  
Soil Erodibility Map**



# Thornton Water Project

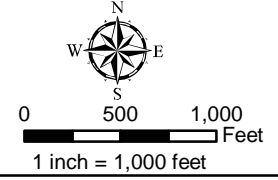


Water Tank  
General Location

County Boundary and TWP Corridor  
Boundary in Larimer County  
are Coincident



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- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station
- General Location
- Water Tank General Location

**Soil Erodibility (K Factor)**

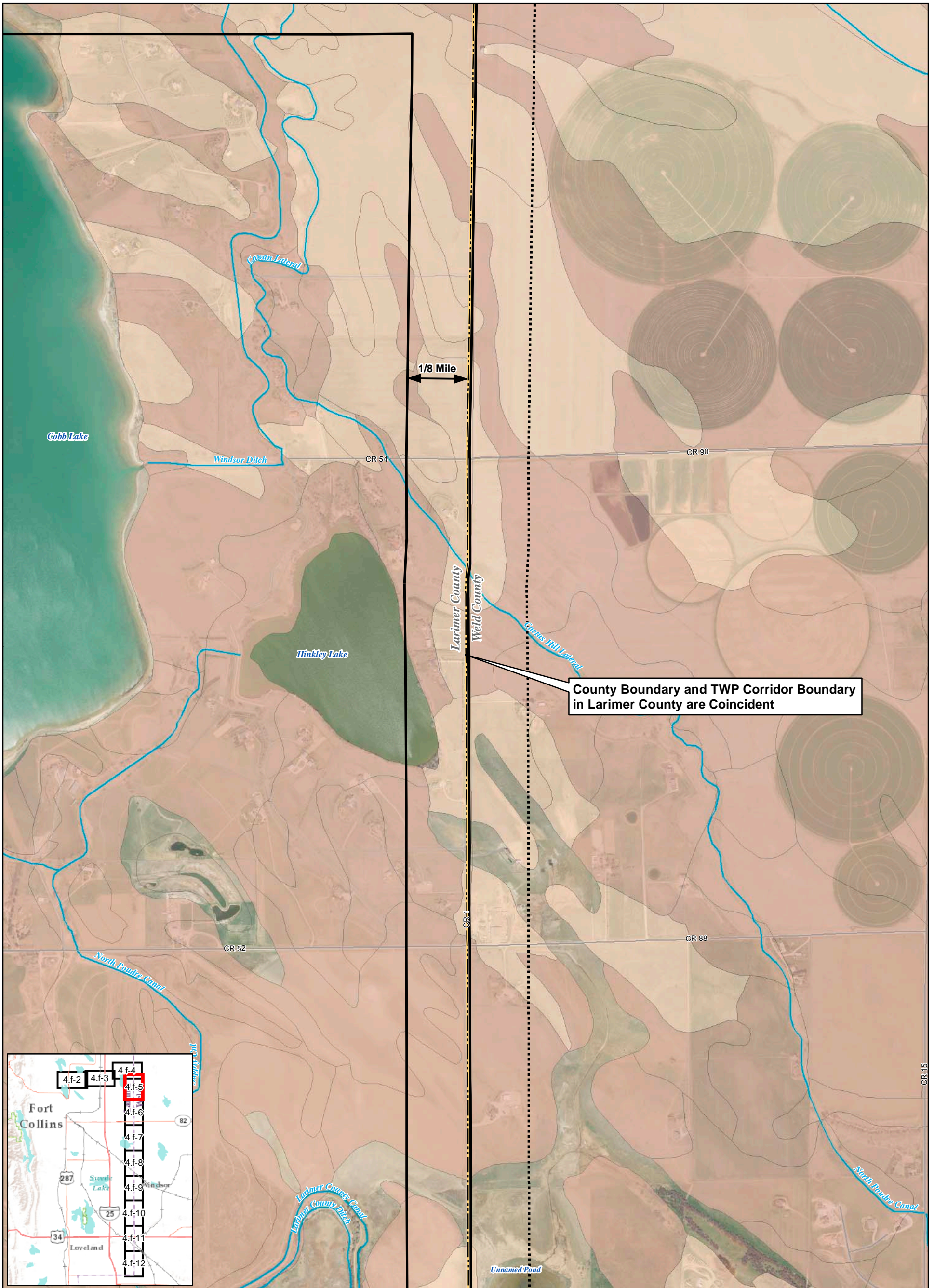
	No Value
	Low (<0.20)
	Medium (0.20 - 0.40)
	High (>0.40)


\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

**Figure 4.f-4  
Soil Erodibility Map**



# Thornton Water Project






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0 500 1,000  
Feet

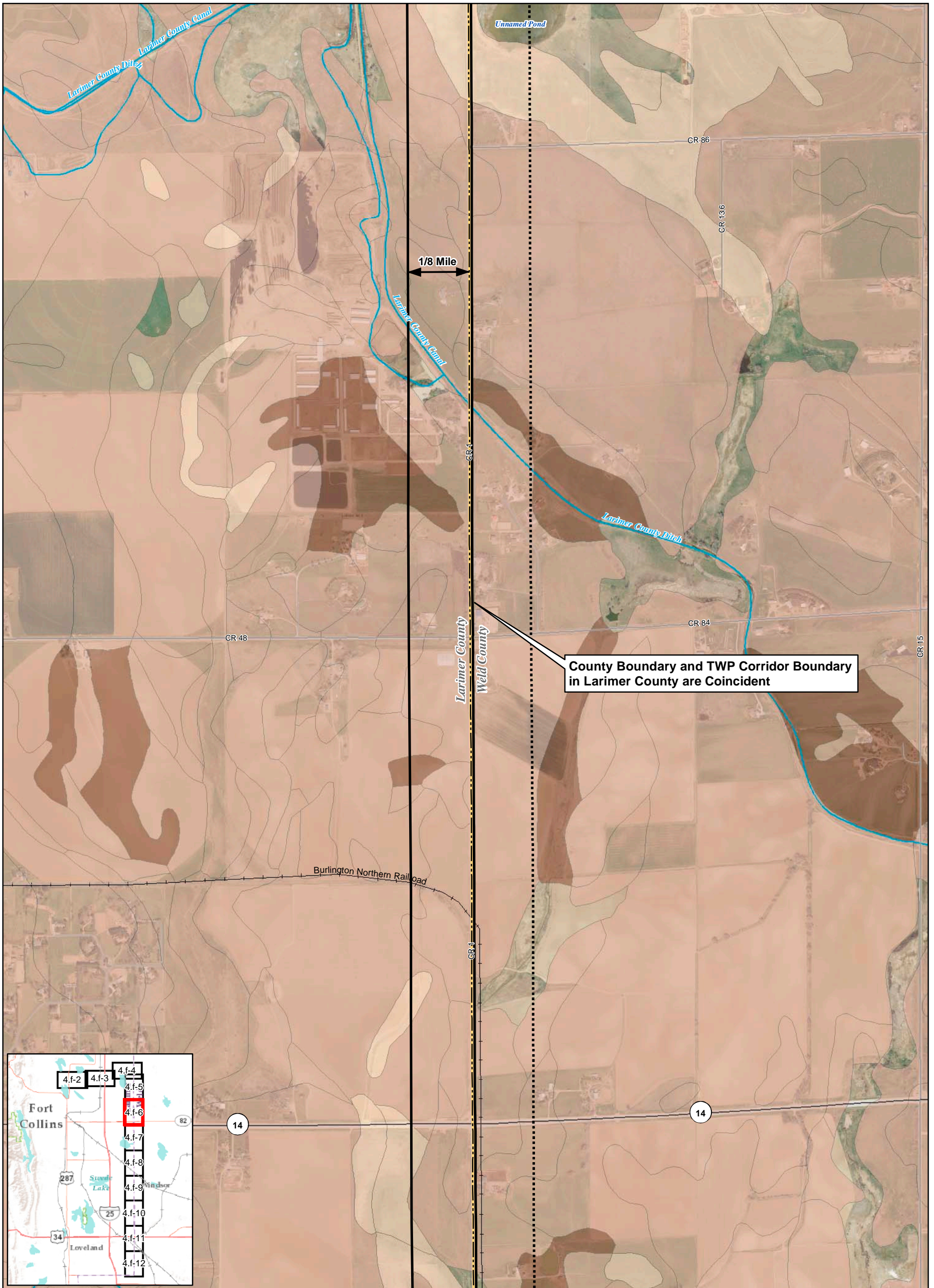
1 inch = 1,000 feet


<ul style="list-style-type: none"> <li><span style="border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> TWP Corridor in Unincorporated Larimer County</li> <li><span style="border-top: 1px dashed black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> TWP Corridor outside Unincorporated Larimer County</li> <li><span style="border-bottom: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> County Boundary</li> <li><span style="border-left: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Railroad</li> <li><span style="border-left: 1px solid blue; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> River/Stream/Canal/Ditch</li> <li><span style="border-left: 1px solid red; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> *Source Water Pump Station General Location</li> <li><span style="border-left: 1px solid blue; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Water Tank General Location</li> </ul>	<p><b>Soil Erodibility (K Factor)</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #fff9c4; border: 1px solid black; margin-right: 5px;"></span> No Value</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #fff176; border: 1px solid black; margin-right: 5px;"></span> Low (&lt;0.20)</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffccbc; border: 1px solid black; margin-right: 5px;"></span> Medium (0.20 - 0.40)</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e57373; border: 1px solid black; margin-right: 5px;"></span> High (&gt;0.40)</li> </ul> <p><small>* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.</small></p>
--	--

**Figure 4.f-5  
Soil Erodibility Map**



# Thornton Water Project






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0 500 1,000  
Feet

1 inch = 1,000 feet

- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location

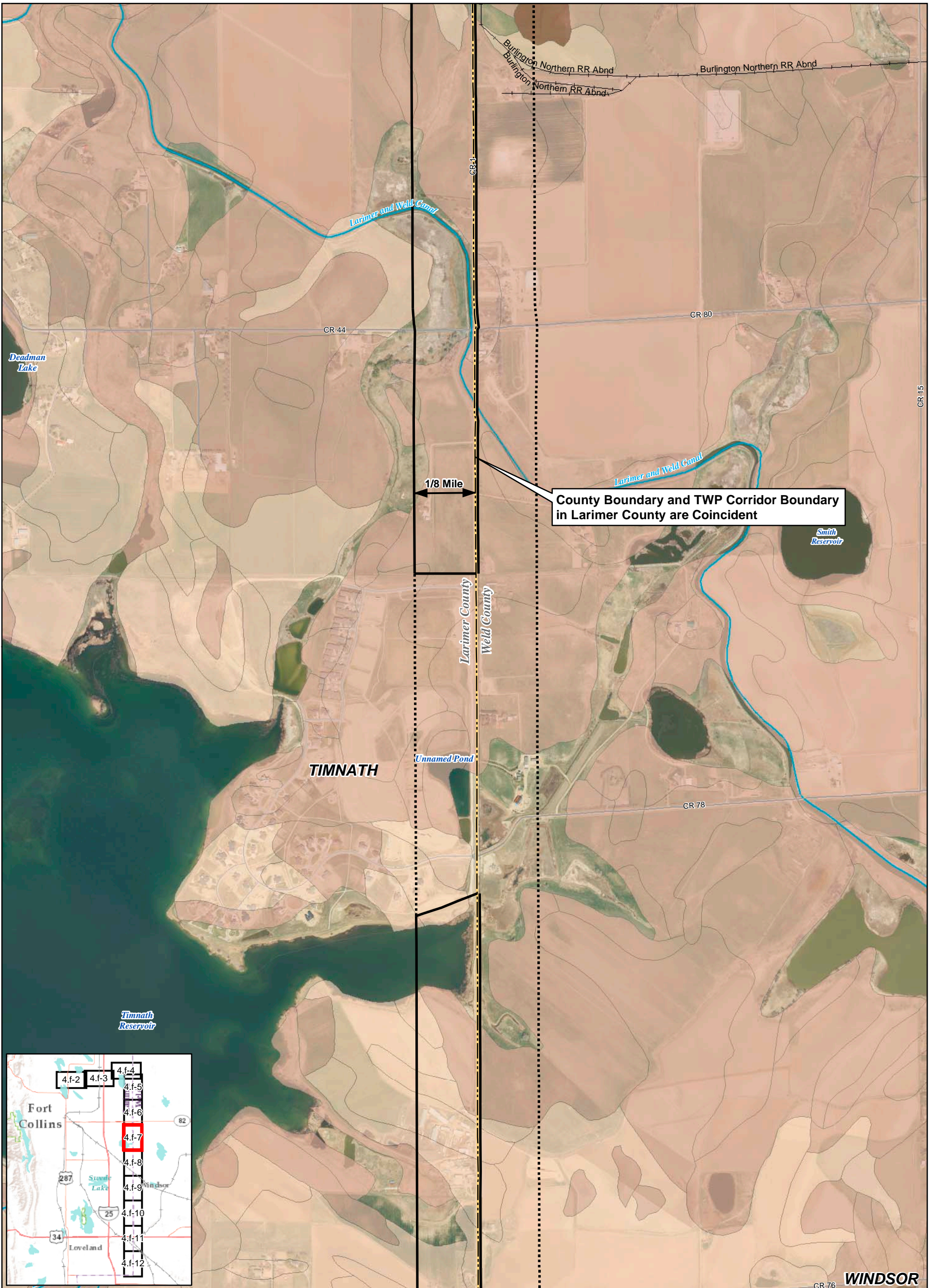
**Soil Erodibility (K Factor)**


- No Value
- Low (<0.20)
- Medium (0.20 - 0.40)
- High (>0.40)

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.



# Thornton Water Project






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0 500 1,000  
Feet

1 inch = 1,000 feet

- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location

**Soil Erodibility (K Factor)**

- No Value
- Low (<0.20)
- Medium (0.20 - 0.40)
- High (>0.40)

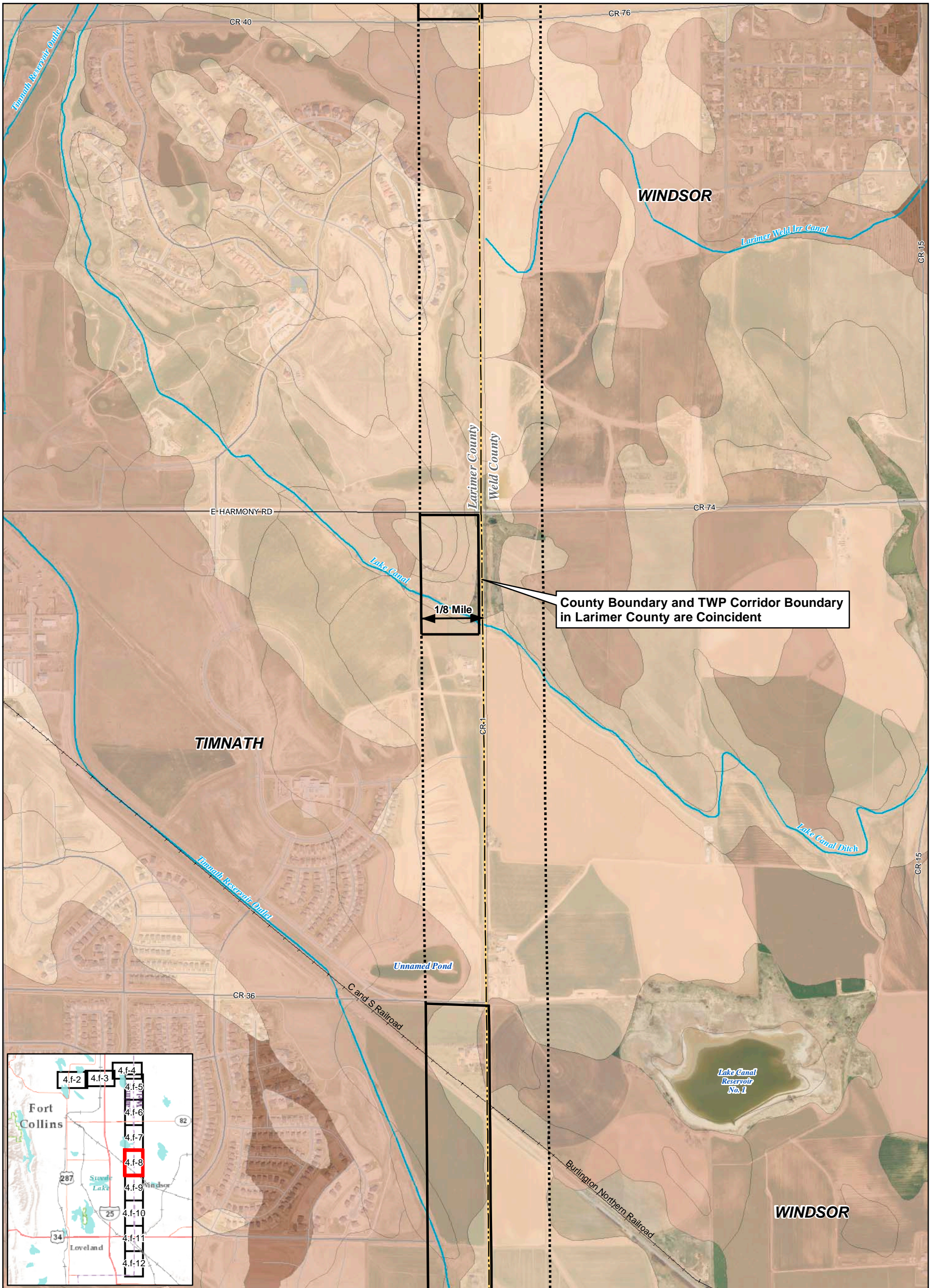
\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.


Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT, NRCS, DRCOG, NAIP

**Figure 4.f-7  
Soil Erodibility Map**



# Thornton Water Project






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0 500 1,000 Feet

1 inch = 1,000 feet

- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location

**Soil Erodibility (K Factor)**

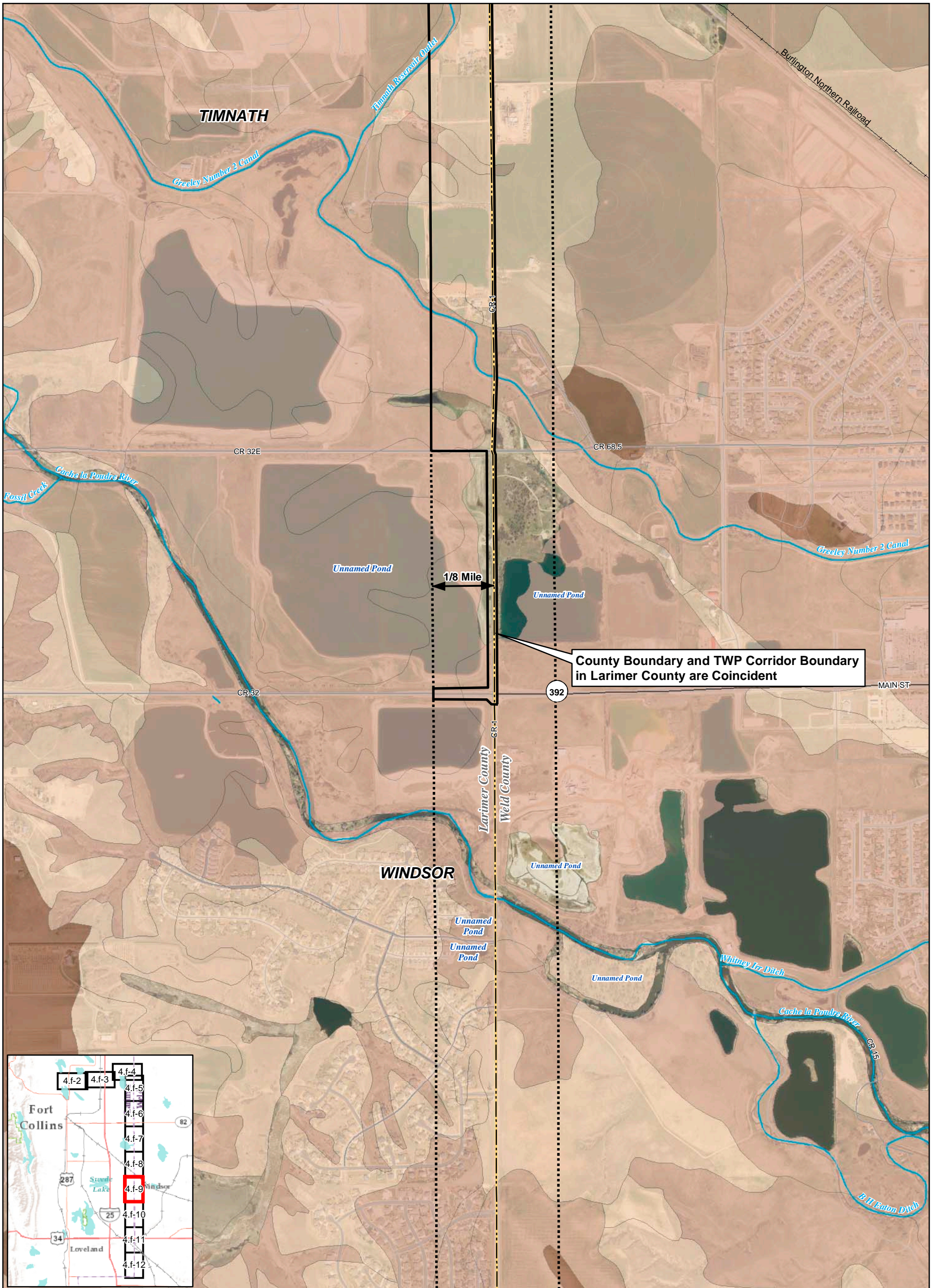
- No Value
- Low (<0.20)
- Medium (0.20 - 0.40)
- High (>0.40)


\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

**Figure 4.f-8  
Soil Erodibility Map**

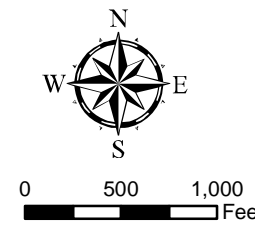


# Thornton Water Project





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COLORADO**  
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THORNTON, CO 80241-2405



0 500 1,000 Feet  
1 inch = 1,000 feet

- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location

**Soil Erodibility (K Factor)**

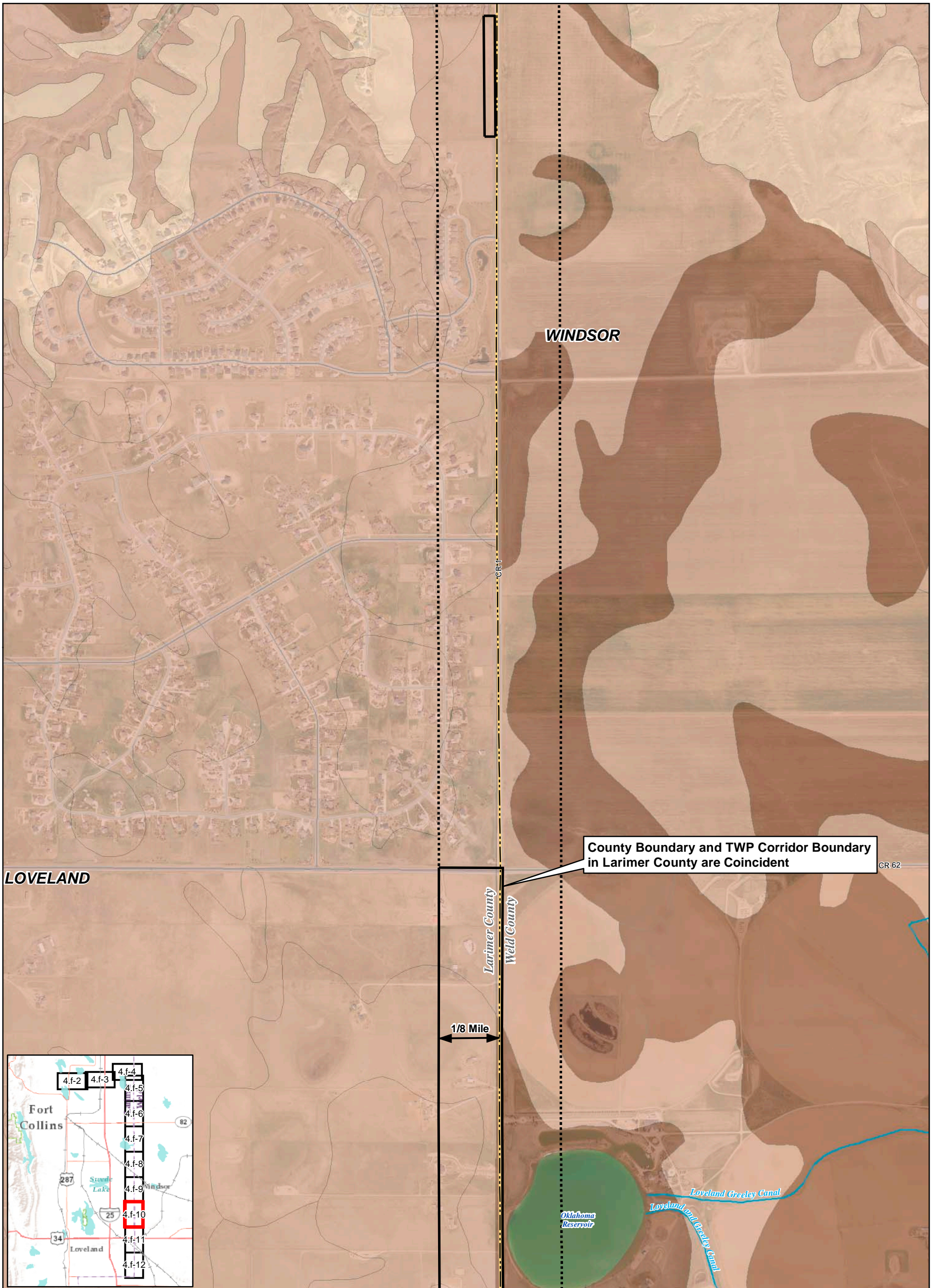
- No Value
- Low (<0.20)
- Medium (0.20 - 0.40)
- High (>0.40)


**Figure 4.f-9  
Soil Erodibility Map**

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

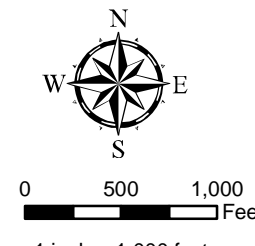


# Thornton Water Project





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0 500 1,000 Feet  
1 inch = 1,000 feet

- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location

**Soil Erodibility (K Factor)**

- No Value
- Low (<0.20)
- Medium (0.20 - 0.40)
- High (>0.40)

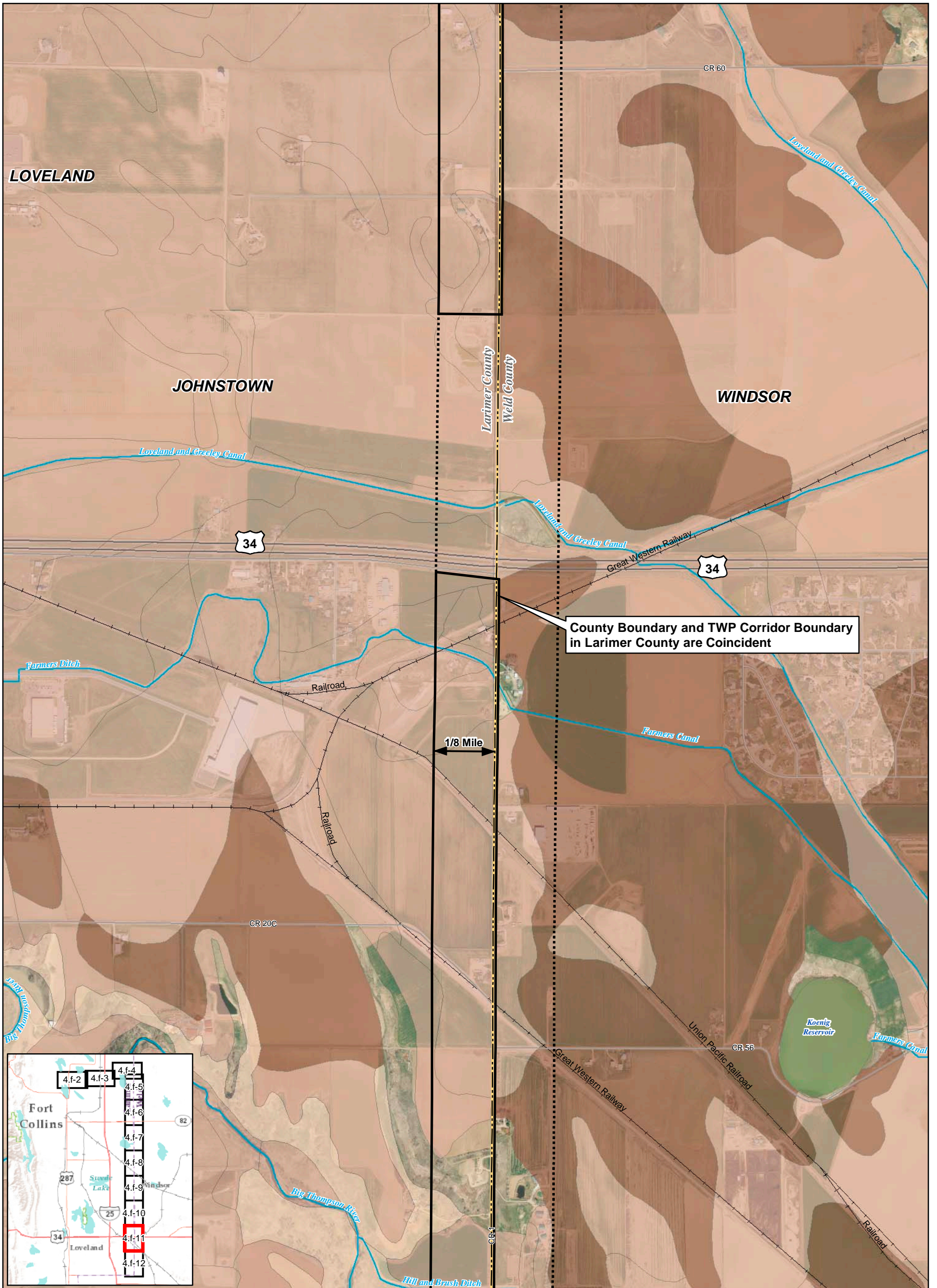
**Figure 4.f-10  
Soil Erodibility Map**


\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT, NRCS, DRCOG, NAIP

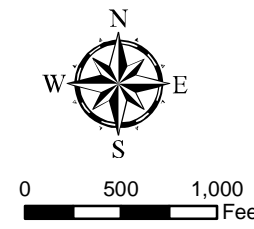


# Thornton Water Project





**CITY OF THORNTON  
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THORNTON, CO 80241-2405



0 500 1,000 Feet  
1 inch = 1,000 feet

- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location

**Soil Erodibility (K Factor)**

- No Value
- Low (<0.20)
- Medium (0.20 - 0.40)
- High (>0.40)

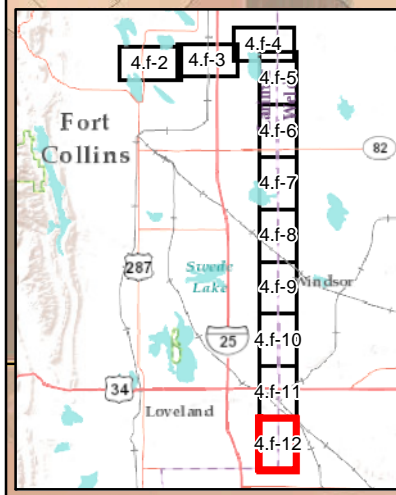
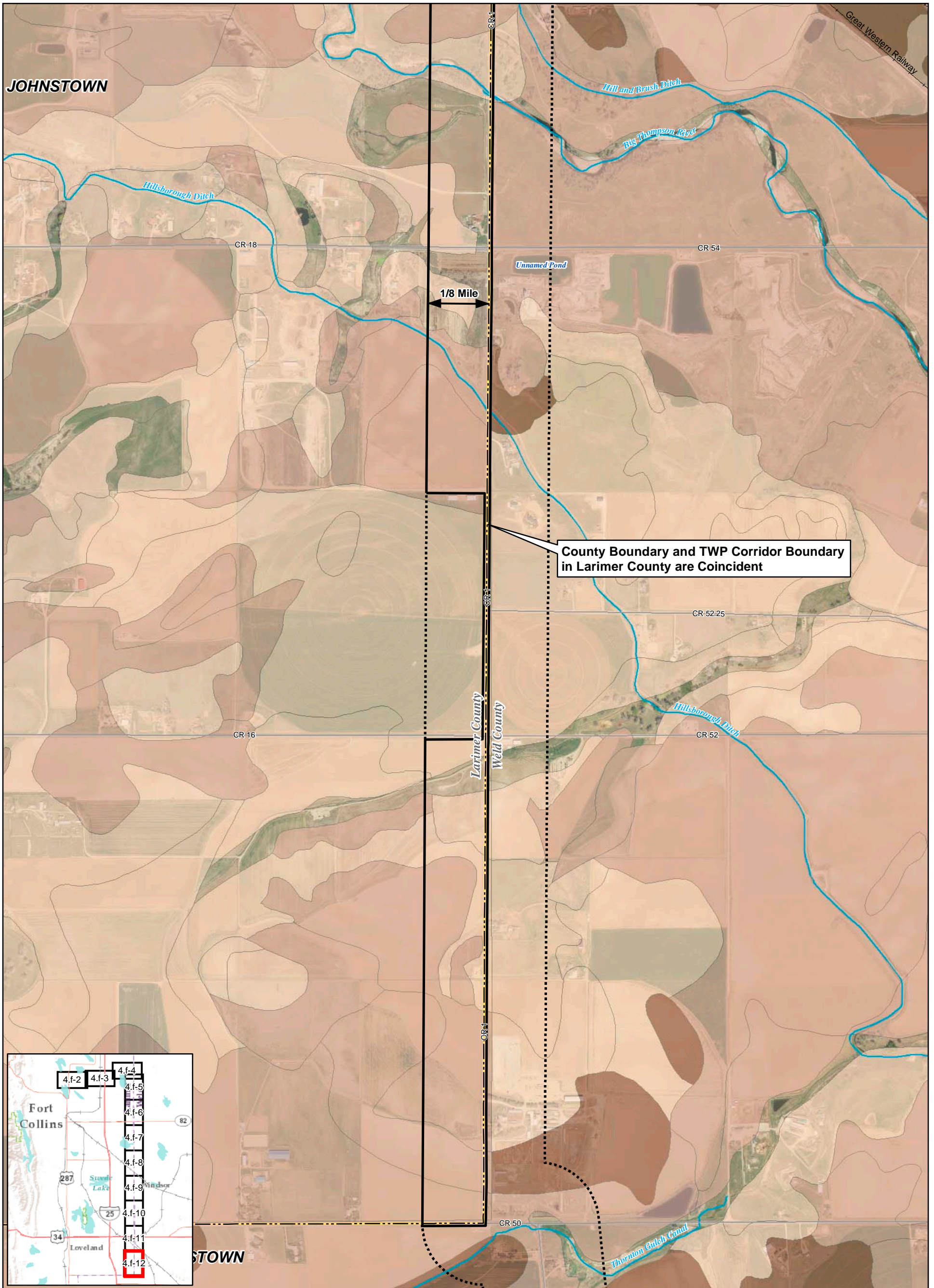
**Figure 4.f-11  
Soil Erodibility Map**


\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT, NRCS, DRCOG, NAIIP

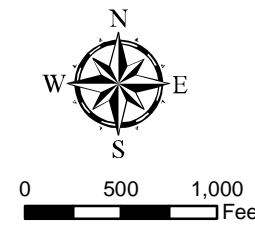


# Thornton Water Project





**CITY OF THORNTON  
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THORNTON, CO 80241-2405



0 500 1,000 Feet  
1 inch = 1,000 feet

- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- River/Stream/Canal/Ditch
- \*Source Water Pump Station General Location
- Water Tank General Location

**Soil Erodibility (K Factor)**

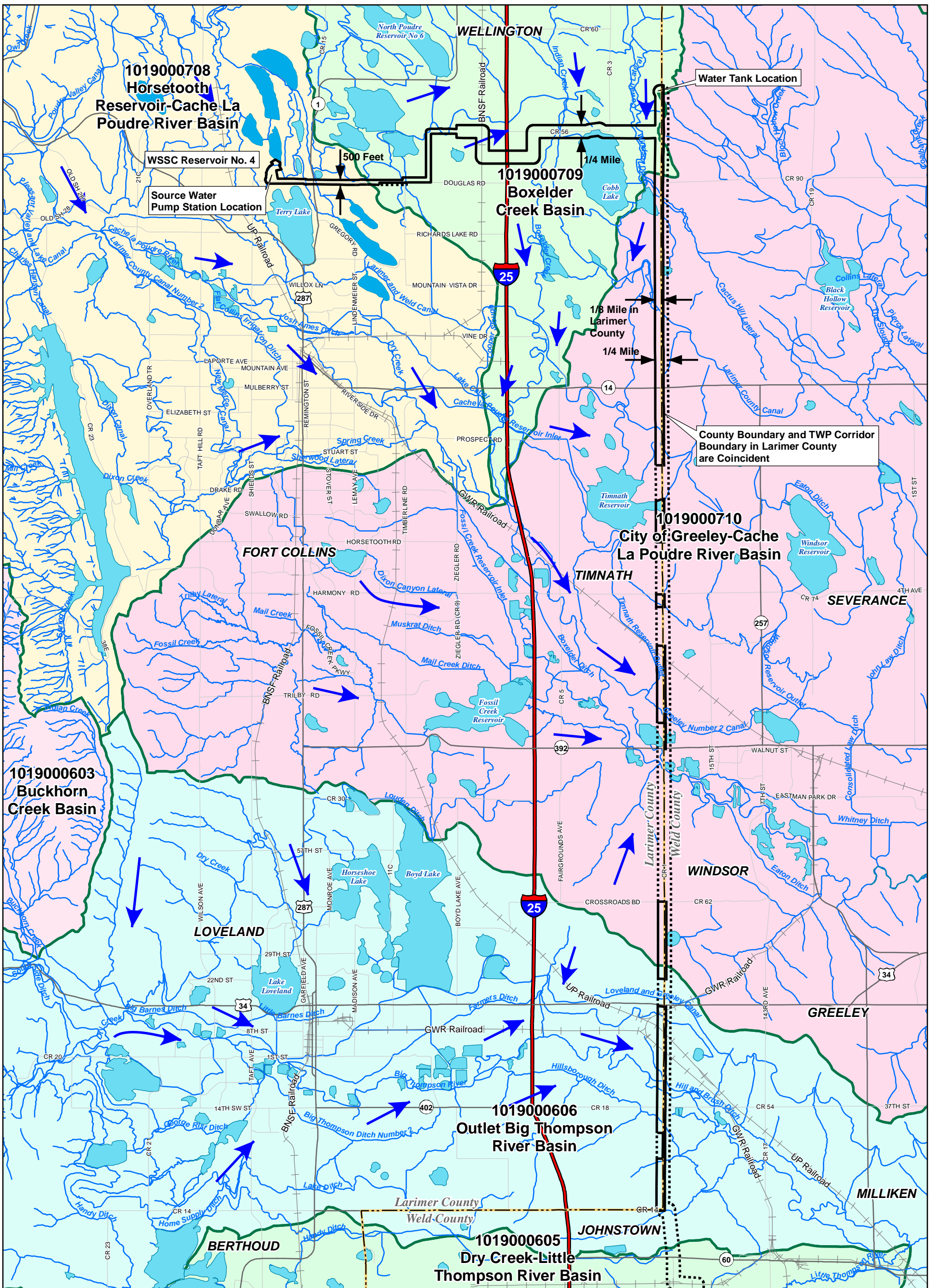
- No Value
- Low (<0.20)
- Medium (0.20 - 0.40)
- High (>0.40)

**Figure 4.f-12  
Soil Erodibility Map**

\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

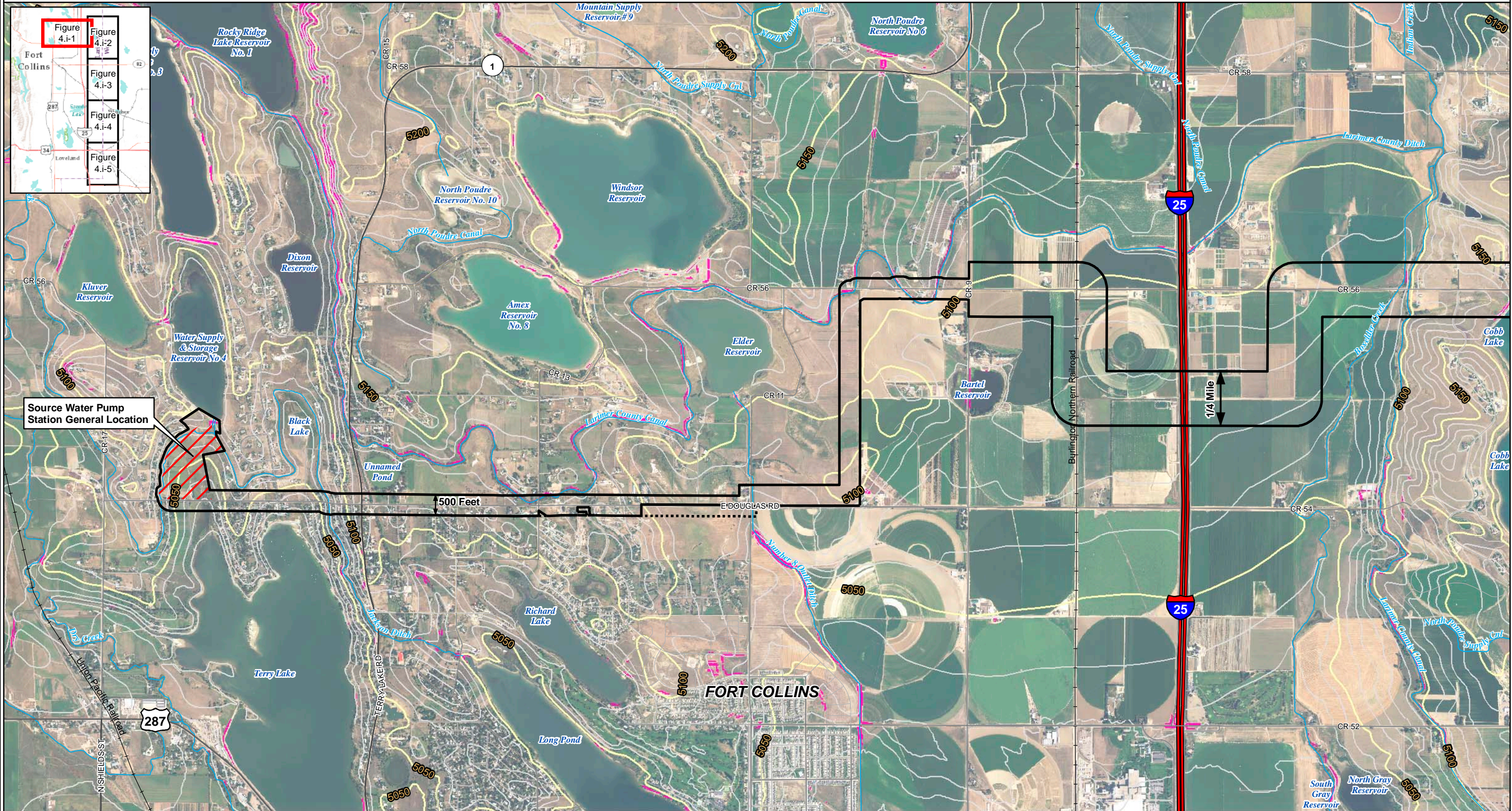


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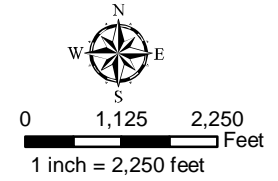




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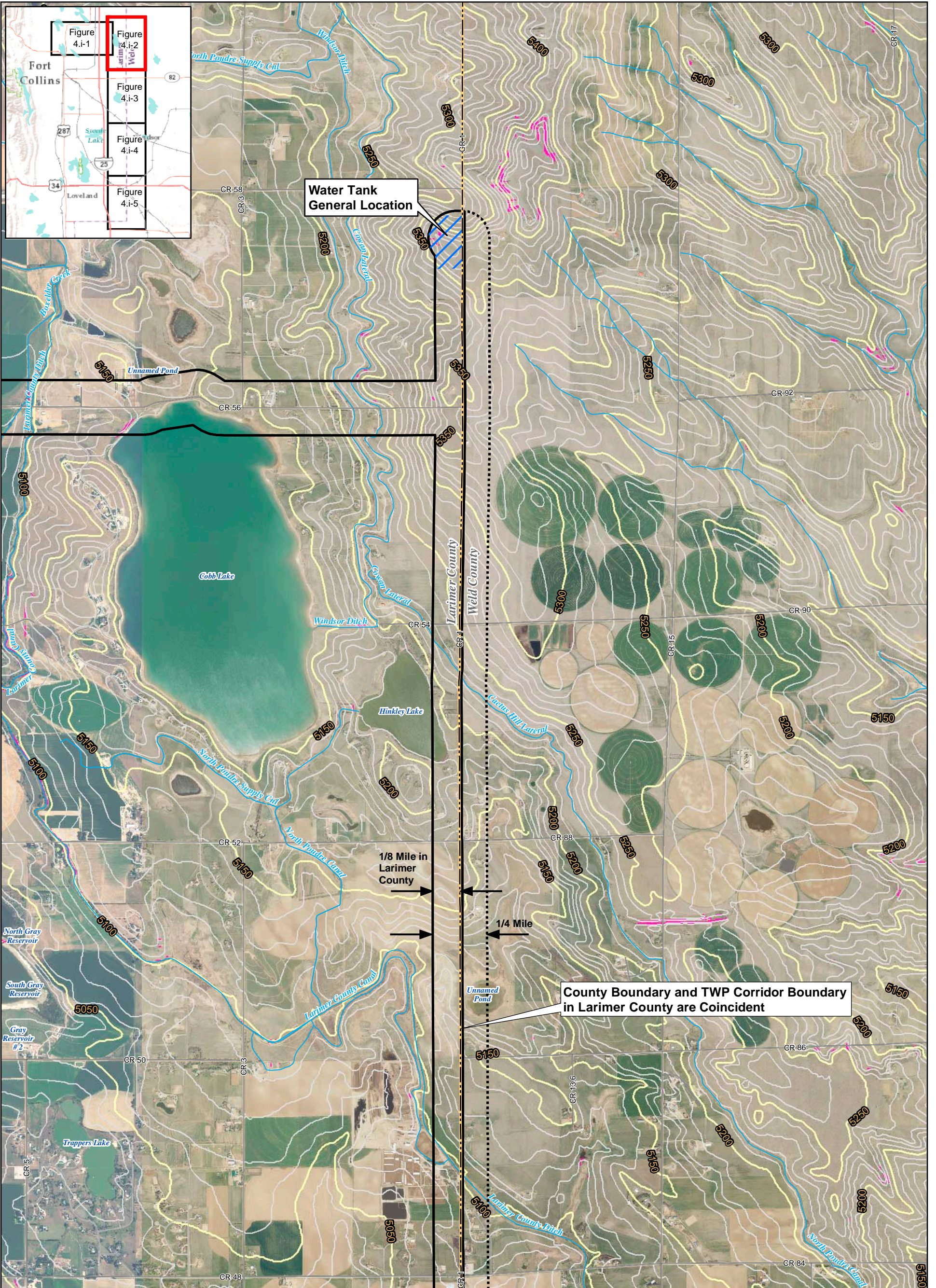
- TWP Corridor in Unincorporated Larimer County
  - TWP Corridor outside Unincorporated Larimer County
  - County Boundary
  - Railroad
  - River/Stream/Canal/Ditch
  - Major Contour (Yellow Line)
  - Minor Contour (White Line)
  - \*Source Water Pump Station General Location
  - Water Tank General Location
- Slope**  
  $\geq 20\%$


\* Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

**Figure 4.i-1  
Topographic Map**



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0 1,125 2,250  
Feet

1 inch = 2,250 feet

<ul style="list-style-type: none"> <li> TWP Corridor in Unincorporated Larimer County</li> <li> TWP Corridor outside Unincorporated Larimer County</li> <li> County Boundary</li> <li> Railroad</li> <li> River/Stream/Canal/Ditch</li> <li> Major Contour (Yellow Line)</li> <li> Minor Contour (White Line)</li> </ul>	<ul style="list-style-type: none"> <li> *Source Water Pump Station General Location</li> <li> Water Tank General Location</li> </ul> <p><b>Slope</b></p> <ul style="list-style-type: none"> <li> <math>\geq 20\%</math></li> </ul>
--	--

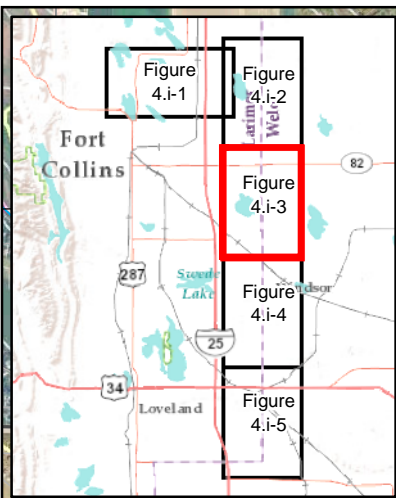
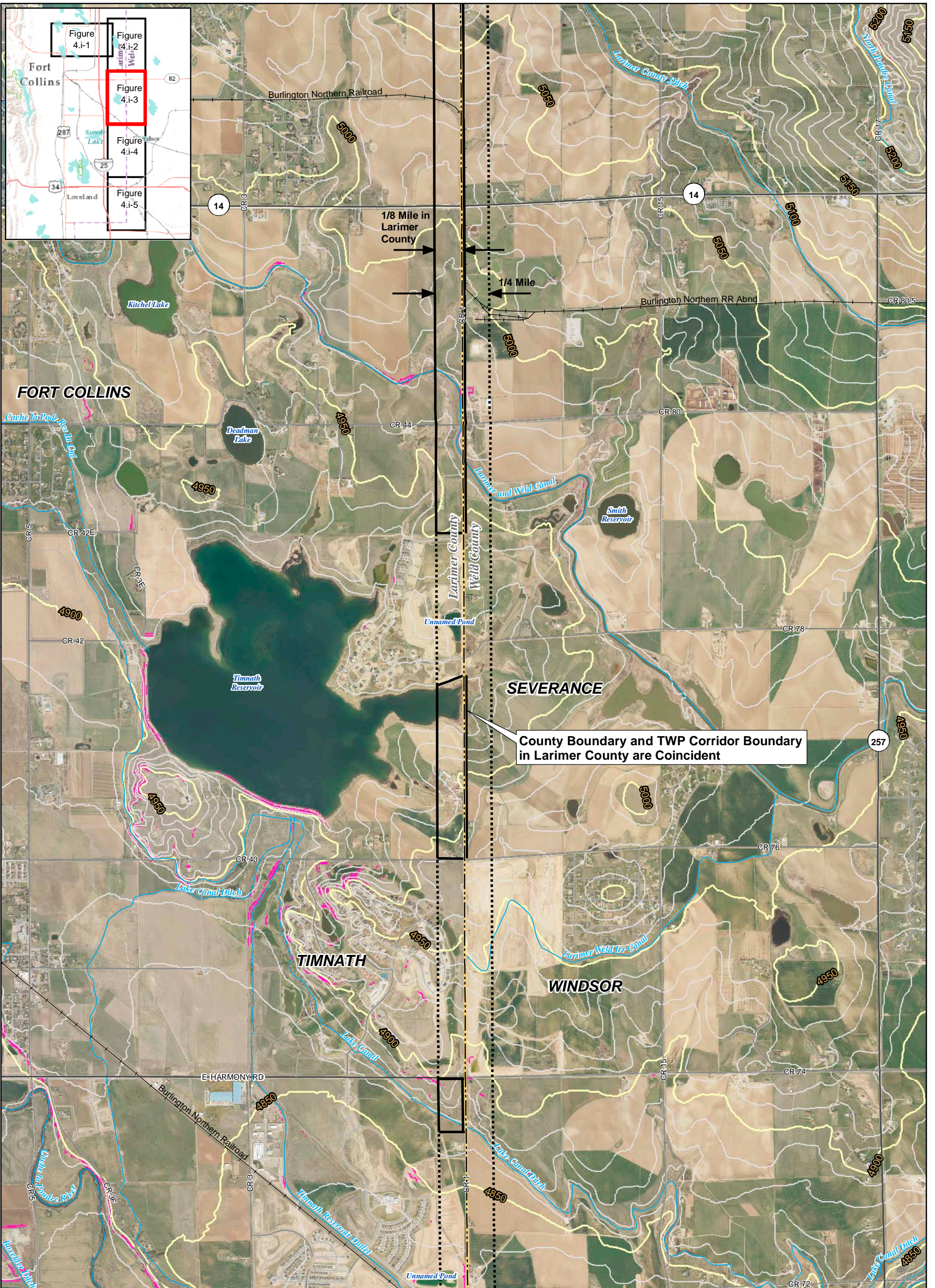
**Figure 4.i-2  
Topographic Map**


\*Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT, NED, DRCOG, NAIIP



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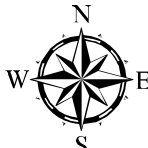




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0 1,125 2,250  
Feet

1 inch = 2,250 feet

TWP Corridor in Unincorporated Larimer County	*Source Water Pump Station General Location
TWP Corridor outside Unincorporated Larimer County	Water Tank General Location
County Boundary	<b>Slope</b>
Railroad	$\geq 20\%$
River/Stream/Canal/Ditch	
Major Contour (Yellow Line)	
Minor Contour (White Line)	

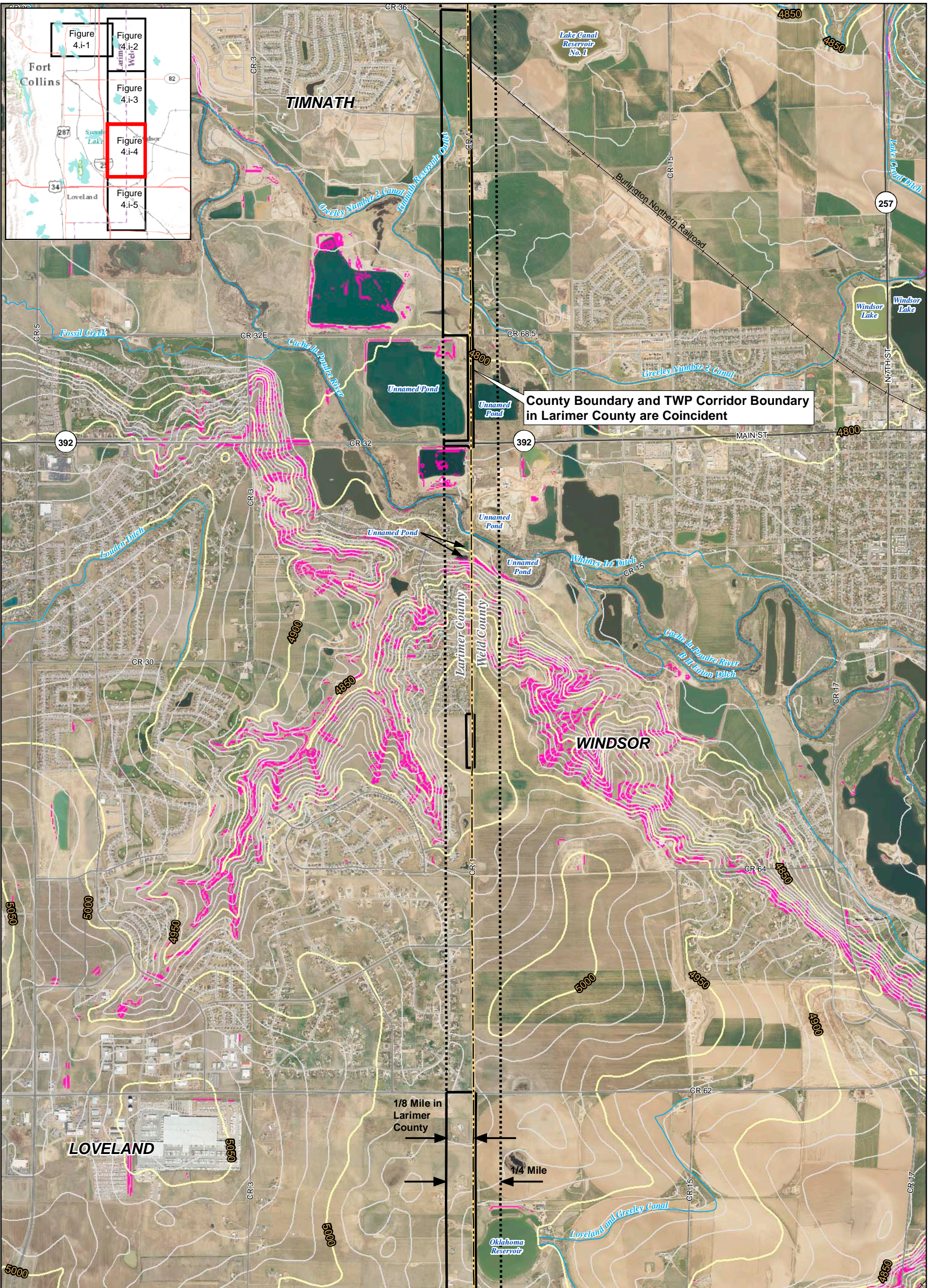
**Figure 4.i-3  
Topographic Map**

\*Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.


Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT, NED, DRCOG, NAIIP



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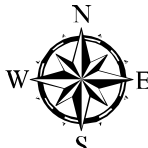
County Boundary and TWP Corridor Boundary in Larimer County are Coincident



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0 1,125 2,250  
Feet

1 inch = 2,250 feet

<ul style="list-style-type: none"> <li><span style="border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> TWP Corridor in Unincorporated Larimer County</li> <li><span style="border: 1px dashed black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> TWP Corridor outside Unincorporated Larimer County</li> <li><span style="border-bottom: 1px dashed black; display: inline-block; width: 15px; margin-right: 5px;"></span> County Boundary</li> <li><span style="border-bottom: 1px solid black; display: inline-block; width: 15px; margin-right: 5px;"></span> Railroad</li> <li><span style="border-bottom: 1px solid blue; display: inline-block; width: 15px; margin-right: 5px;"></span> River/Stream/Canal/Ditch</li> <li><span style="border-bottom: 1px solid yellow; display: inline-block; width: 15px; margin-right: 5px;"></span> Major Contour (Yellow Line)</li> <li><span style="border-bottom: 1px solid white; display: inline-block; width: 15px; margin-right: 5px;"></span> Minor Contour (White Line)</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: red; font-weight: bold;">/</span> *Source Water Pump Station General Location</li> <li><span style="color: blue; font-weight: bold;">/</span> Water Tank General Location</li> </ul> <p><b>Slope</b></p> <ul style="list-style-type: none"> <li><span style="background-color: magenta; width: 15px; height: 10px; display: inline-block; margin-right: 5px;"></span> <math>\geq 20\%</math></li> </ul>
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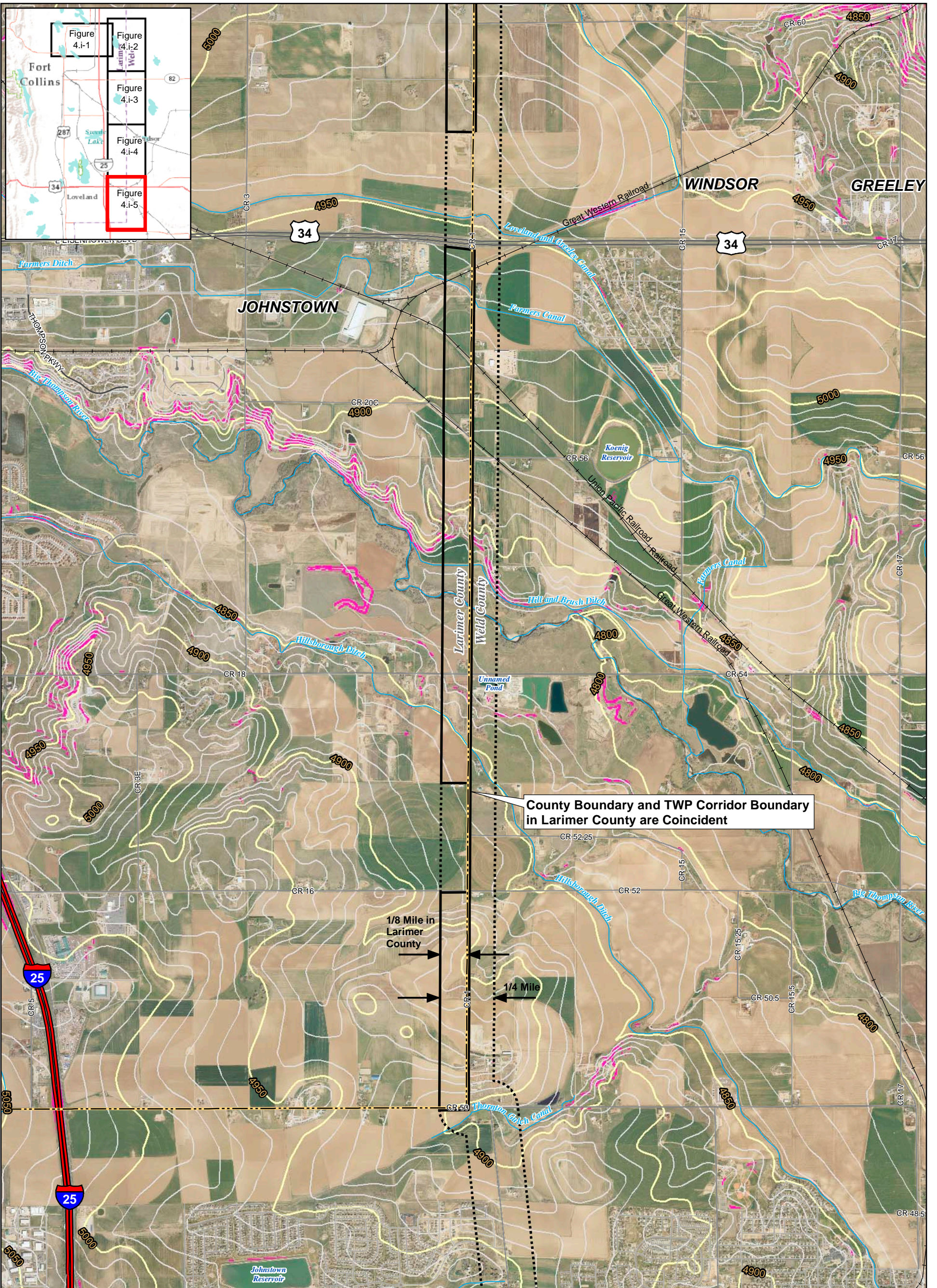
**Figure 4.i-4  
Topographic Map**


\*Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT, NED, DRCOG, NAIP



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0 1,125 2,250  
Feet

1 inch = 2,250 feet

TWP Corridor in Unincorporated Larimer County	*Source Water Pump Station General Location
TWP Corridor outside Unincorporated Larimer County	Water Tank General Location
County Boundary	<b>Slope</b>
Railroad	$\geq 20\%$
River/Stream/Canal/Ditch	
Major Contour (Yellow Line)	
Minor Contour (White Line)	

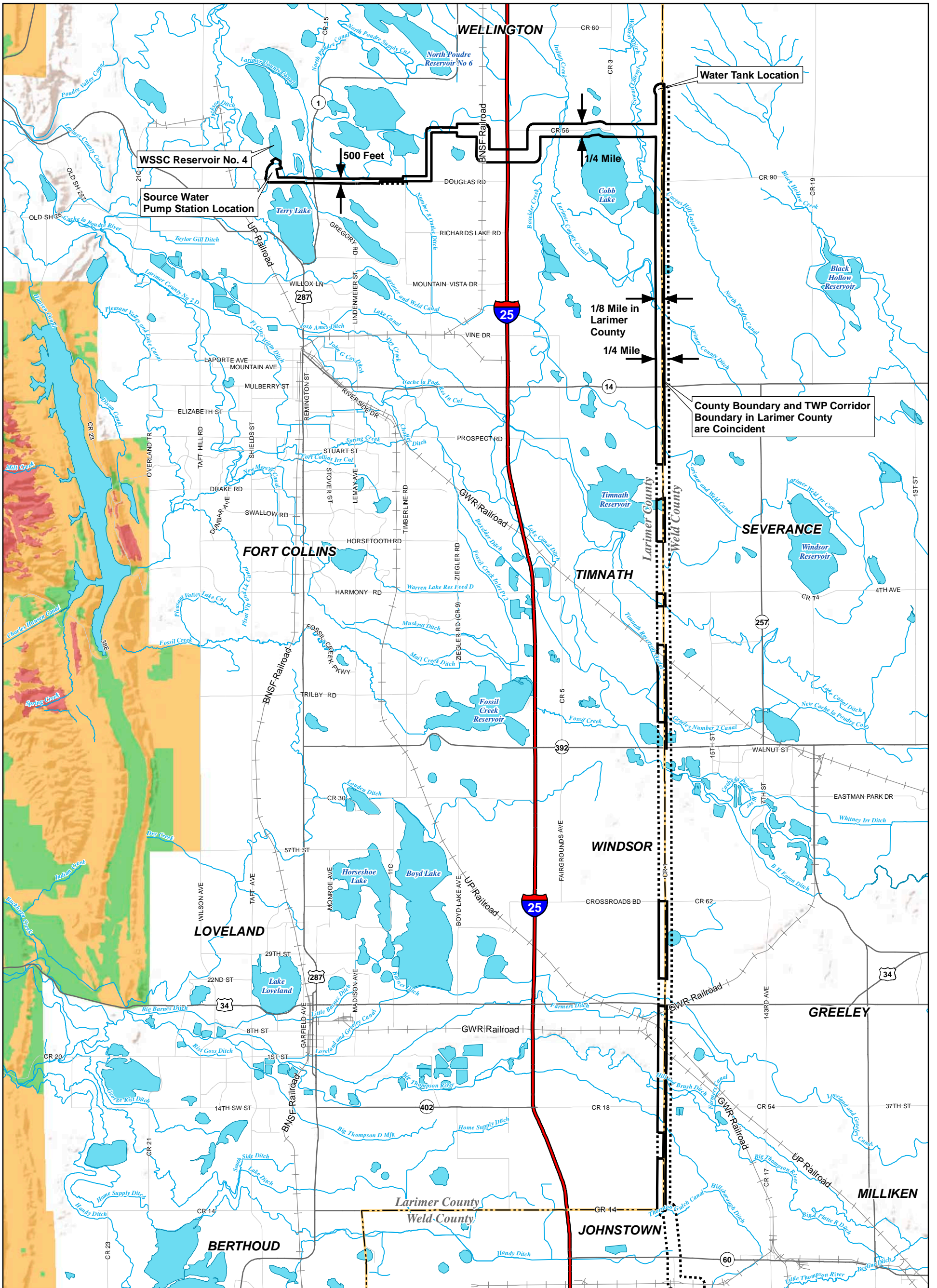
**Figure 4.i-5  
Topographic Map**

\*Final location of the Source Water Pump Station will be determined during design development. Thornton will submit a Site Plan Review permit application to Larimer County after design has progressed to the level necessary to submit the application.

Sources: NHD, USGS, CDWR, Larimer and Weld Counties, CDOT, NED, DRCOG, NAIIP



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0 0.9 1.8  
Miles  
1 in = 1.8 miles

- TWP Corridor in Unincorporated Larimer County
- TWP Corridor outside Unincorporated Larimer County
- County Boundary
- Railroad
- Lake/Reservoir
- River/Stream/Canal/Ditch

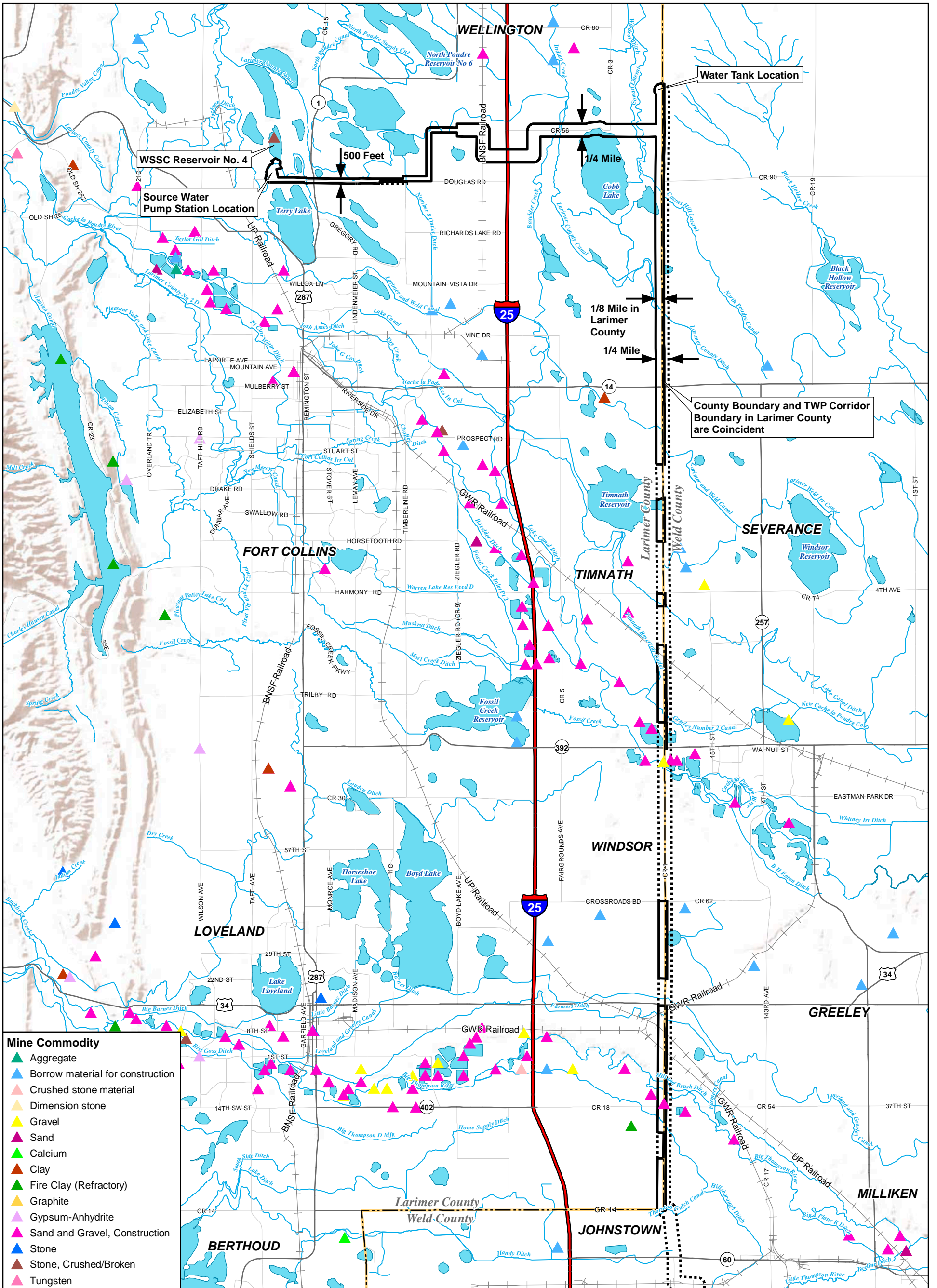
- WildFire Hazard Area - Very High Hazard
- High Hazard
- Moderate Hazard
- Low Hazard
- Outside Hazard Mitigation Area

**Figure 4.1  
Wildfire Hazards**

Sources: NHD, CDWR, Larimer and Weld Counties, CDOT



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0 0.9 1.8  
Miles  
1 in = 1.8 miles

**Figure 4.n  
Commercial  
Mineral Mines**