

2.0 Inventory of Resources

2.1 Village Mapping Systems

Topographic mapping is available for most of Greenwood Village (Village) with a 2-foot contour interval. The topographic mapping was completed in 1998 and includes an inventory of landscaping, structures, streets, and various other planimetric features. The horizontal control for the mapping is the Colorado State Plane Coordinate system, and vertical control is NGVD 1929. This vertical datum is different from the NGVD 1988 that is used for floodplain mapping. Although the difference varies somewhat by location, for the Village the NGVD 1929 is approximately 3 feet lower than the NGVD 1988. Each section quarter corner has a designated control point. The mapping is available electronically or in hardcopy form in quarter sections. Figure 2-1 is an index for the mapping system.

Updated aerial photography is also available and can be used in conjunction with the topographic mapping. The date of the aerial photography is 2002 and it is ortho-corrected to minimize horizontal distortions in the photography. The aerial photography is available electronically and/or in hardcopy.

The Department of Community Development maintains a list of sources from which the maps and aerial photography can be purchased.

2.2 Perennial Streams and Lakes

The Village has 6 perennial streams within its corporate boundaries. They are:

- 1) Big Dry Creek
- 2) Little Dry Creek
- 3) Greenwood Gulch
- 4) Prentice Gulch
- 5) Goldsmith Gulch
- 6) Cottonwood Creek

In addition, several areas drain directly into Cherry Creek Reservoir. Figure 2-2 shows the locations of the above listed drainageways that are located in the Village. This mapping is available from the Village in electronic and hardcopy forms.

2.3 Wetlands

The Village has mapping available of inventoried wetlands within the corporate boundaries. Typically, the wetlands are located in the Major Drainageways. The inventoried wetland boundaries have been superimposed on the aerial photography of the Village and provided on Figure 2-3. This mapping should only be used for planning purposes and does not constitute an

official wetland delineation. Chapter 14.0 of this Drainage Criteria Manual specifies the requirements for proper wetland delineation. This mapping is available from the Village in electronic and hardcopy forms.

2.4 Soils Mapping

The soil types of the Village have been classified by the Soil Conservation Service and are presented in the Soils Survey of Arapahoe County. For convenience, the soil series in the Village have been grouped into three general soil types. Figure 2-4 shows the individual soil classifications and the composite classifications. This mapping should be used for planning purposes and can be referenced for design information unless the Village requires site-specific classification of soil type. Chapter 6.0 of this Drainage Criteria Manual provides additional information regarding soil types and their relationship to runoff. This mapping is available from the Village in electronic and hardcopy forms.

2.5 Urban Drainage and Flood Control District

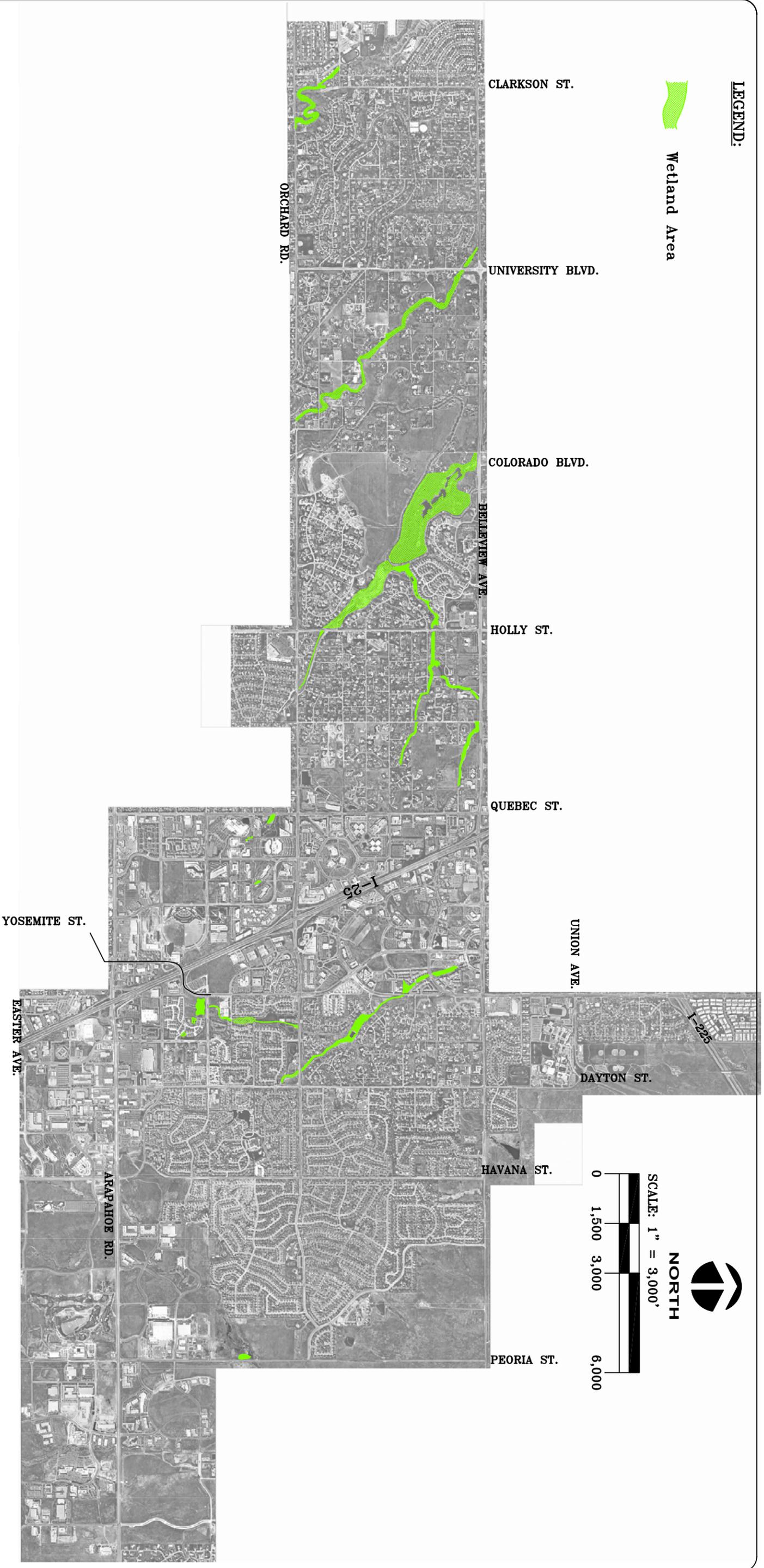
Urban Drainage and Flood Control District (UDFCD) is an important resource for completing drainage designs for the Village. UDFCD has authored the Urban Storm Drainage Criteria Manual Volumes 1, 2, and 3. The UDFCD Drainage Criteria Manual should be used concurrently with this Drainage Criteria Manual. However, when there are differences between the two manuals, this Drainage Criteria Manual shall be used. Copies of the UDFCD Drainage Criteria Manual are available from UDFCD.

Insert Figures 2-1 through 2-4

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LEGEND:

 Wetland Area

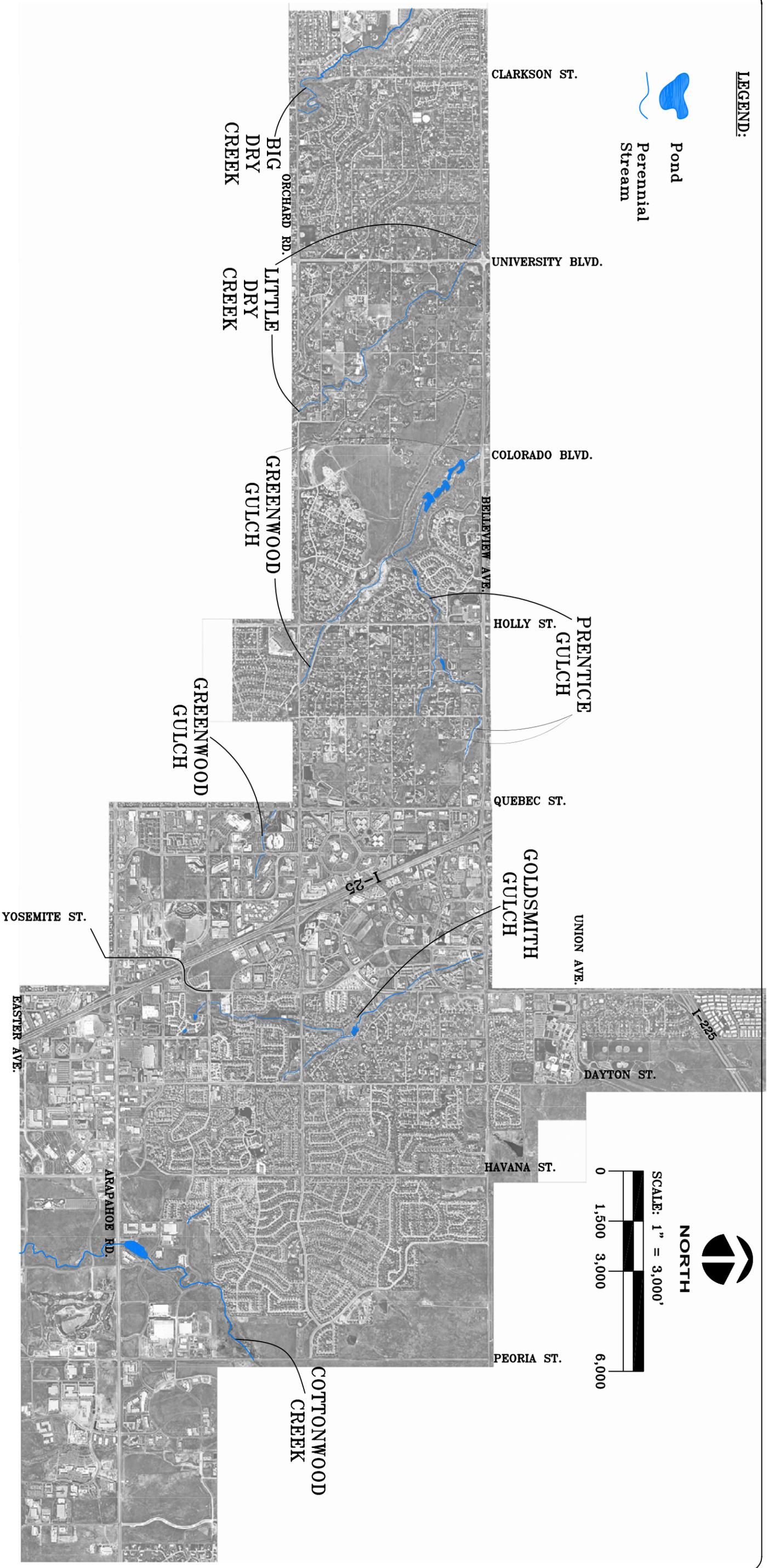


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Figure 2-3
Inventoried Wetland Areas

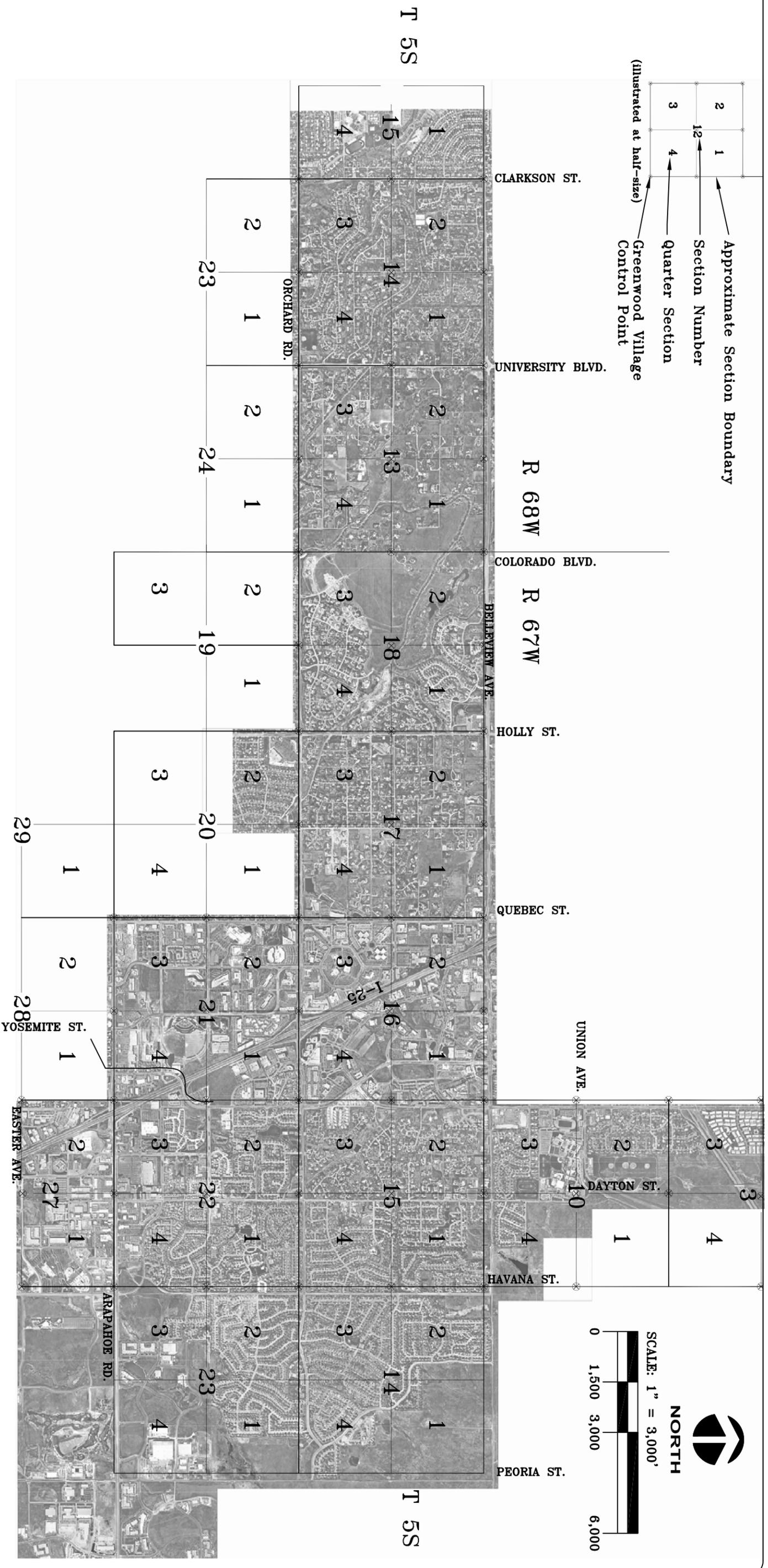
LEGEND:

-  Pond
-  Perennial Stream



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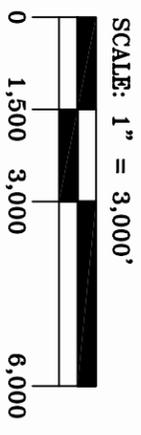
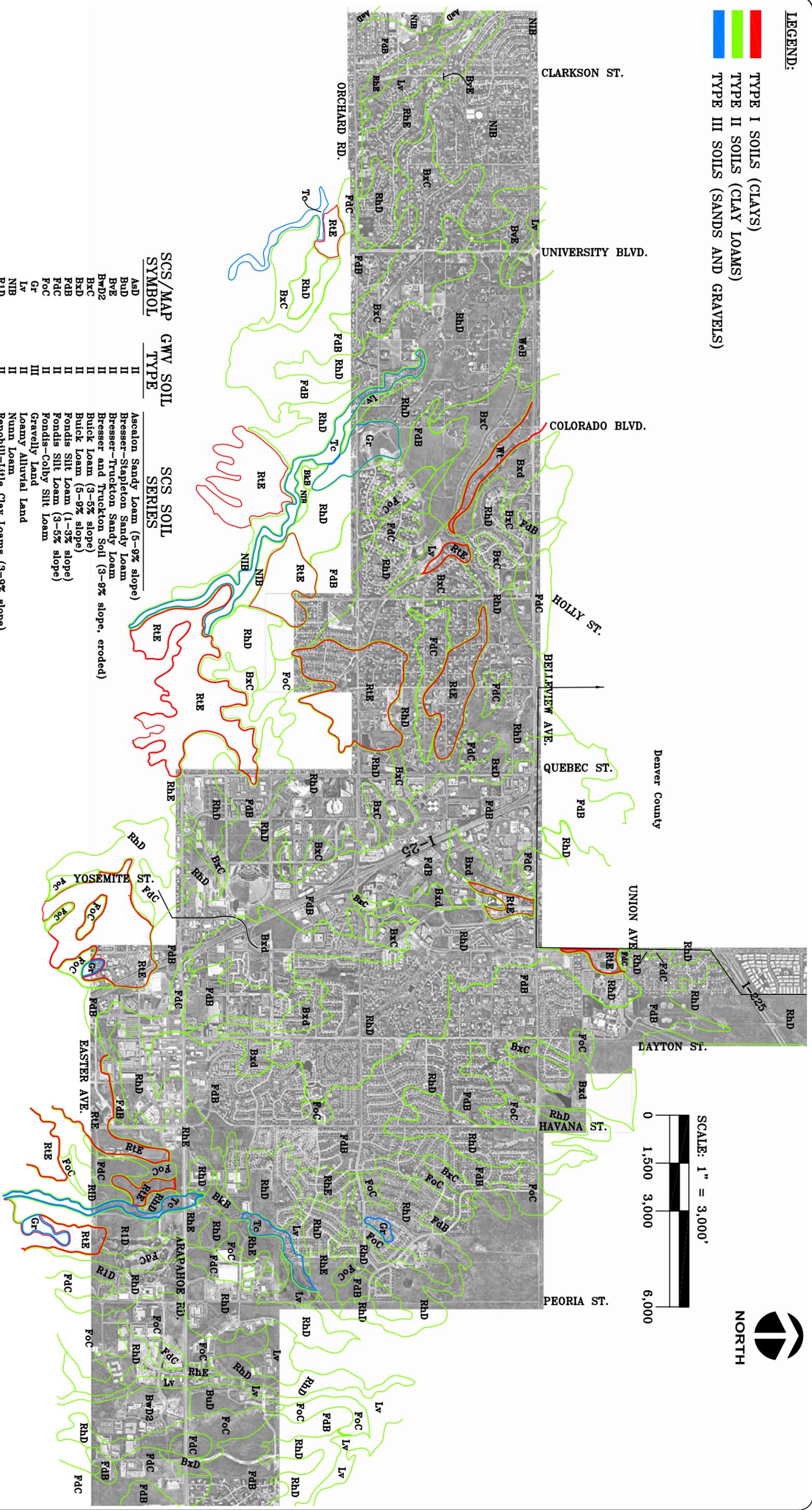
Figure 2-2
 Perennial Streams and Ponds



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Figure 2-1
City Mapping System Index

- LEGEND:**
- █ TYPE I SOILS (CLAYS)
 - █ TYPE II SOILS (CLAY LOAMS)
 - █ TYPE III SOILS (SANDS AND GRAVELS)



| SCS/MAP SYMBOL | GWV SOIL TYPE | SCS SOIL SERIES |
|----------------|---------------|--|
| AsD | II | Ascacon Sandy Loam (5-9% slope) |
| Bud | II | Bresser-Stapleton Sandy Loam |
| BvE | II | Bresser-Truckton Sandy Loam |
| BwD2 | II | Bresser and Truckton Soil (3-9% slope, eroded) |
| BxC | II | Buick Loam (3-5% slope) |
| BxD | II | Buick Loam (5-9% slope) |
| FdB | II | Fondis Silt Loam (1-3% slope) |
| FdC | II | Fondis Silt Loam (3-5% slope) |
| FdE | III | Fondis-Colby Silt Loam |
| FdF | III | Gravelly Land |
| FdG | III | Loamy Alluvial Land |
| FdH | III | Nunn Loam |
| FdI | II | Renohill-Little Clay Loams (3-9% slope) |
| FdJ | II | Renohill Loam (3-9% slope) |
| FdK | II | Renohill-Buick Loams (3-9% slope) |
| FdL | II | Renohill-Buick Loams (9-20% slope) |
| FdM | I | Renohill-Little-Thedallund |
| FdN | I | Terrace Escarpments (nearly vertical) |
| FdO | III | Weld Silt Loam |
| FdP | III | Wet Alluvial Land |

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Figure 2-4
Soil Classifications Map