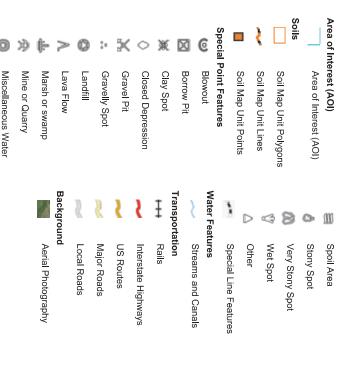


# MAP LEGEND



# MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Williamson County, Tennessee Survey Area Data: Version 11, Sep 11, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Slide or Slip Sodic Spot Saline Spot Sandy Spot Perennial Water
Rock Outcrop

Severely Eroded Spot

Sinkhole

# Map Unit Legend

Williamson County, Tennessee (TN187)				
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
ArA	Armour silt loam, 0 to 2 percent slopes	16.4	7.2%	
ArB	Armour silt loam, 2 to 5 percent slopes	13.7	6.0%	
ArB2	Armour silt loam, 2 to 5 percent slopes, eroded	31.0	13.6%	
ArC	Armour silt loam, 5 to 12 percent slopes	1.8	0.8%	
ArC2	Armour silt loam, 5 to 12 percent slopes, eroded	14.4	6.3%	
AtC3	Armour silty clay loam, 5 to 12 percent slopes, severely eroded	3.9	1.7%	
Eg	Egam silt loam, phosphatic	6.2	2.7%	
Hu	Huntington silt loam, phosphatic	68.7	30.3%	
Lp	Lindell silt loam, 0 to 2 percent slopes, occasionally flooded	2.0	0.9%	
MbB2	Maury silt loam, 2 to 5 percent slopes, eroded	25.5	11.2%	
MbC2	Maury silt loam, 5 to 12 percent slopes, eroded	25.8	11.4%	
McC3	Maury silty clay loam, 5 to 12 percent slopes, severely eroded	5.6	2.5%	
Rc	Rockland	5.7	2.5%	
W	Water	6.4	2.8%	
Totals for Area of Interest		226.9	100.0%	

Appendix C

**Calculations** 



#### **Calculations**

#### Areas:

Total Site Area = 109.6 acres Total Disturbed Area = 40.3 Acres Impervious Area

Existing: 5.49 acres
Proposed: 4.54 acres
Total: 10.03 acres

#### **Existing Coefficient of Runoff:**

Other than the improved areas of the site, the land cover is predominantly maintained lawn or meadow.

The predominant Hydrologic Soil Group for the site is group "B" with some "A". A conservative  $\mathbf{C} = \mathbf{0.21}$  has been assigned for the undeveloped non-impervious undeveloped portions of the site.

#### **Post Construction Coefficient of Runoff:**

Impervious Area = 10.03 acres Pervious Area = 99.57 acres

Total Percentage Impervious = 9.15%

Weighted C =  $[(10.03 \times 0.96) + (99.57 \times 0.21)] / 109.6 = 0.28$ 

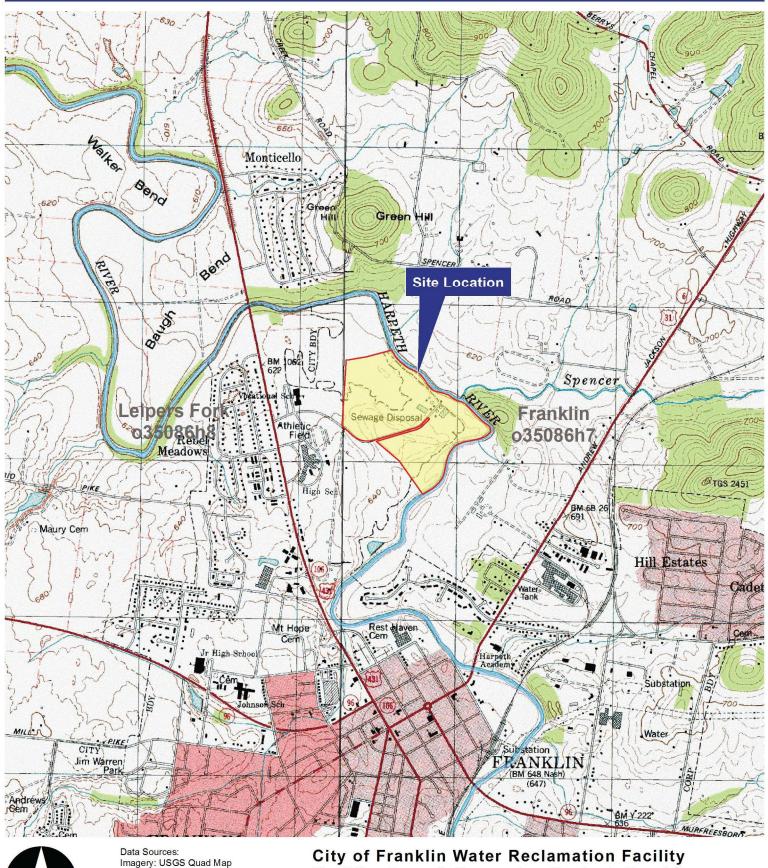


# Appendix D

**Figures** 



### FIGURE 1: SITE LOCATION MAP



Feet 0 750 1,500 3,000 4,500 6,000

Modifications & Expansion Project, Franklin Williamson Co., TN

307 Hickerson Drive, Murfreesboro, TN 37129 (615) 663-7678 www.cia-engineers.com

INFRASTRUCTURE ASSOCIATES

## FIGURE 2: SITE MAP





380

Data Sources: Imagery: BING Maps

760

1,140

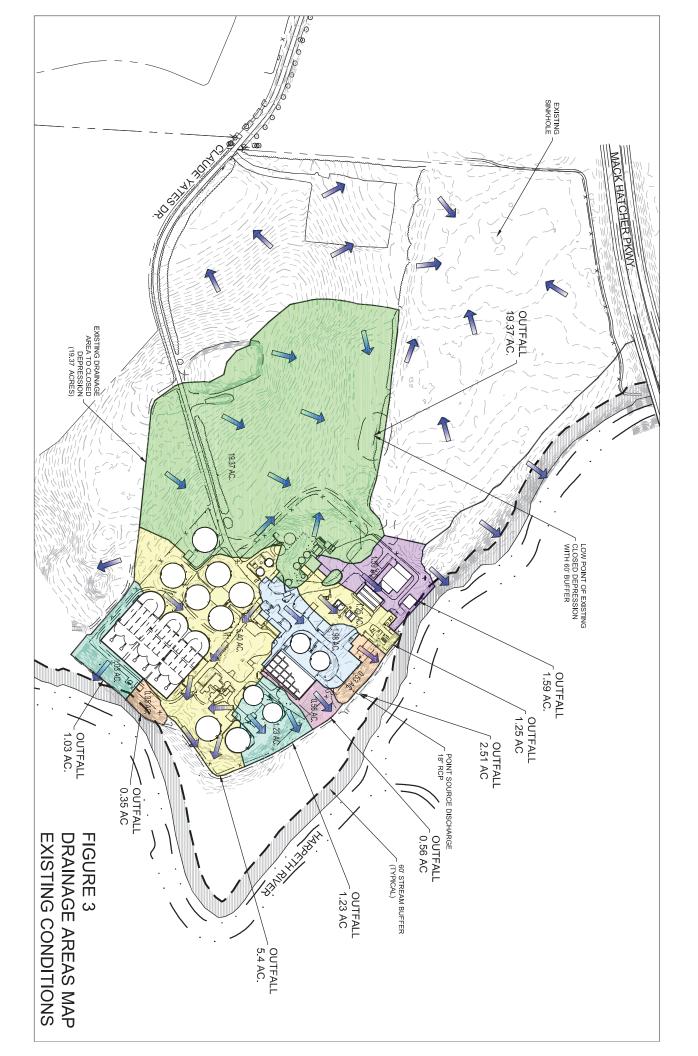
Feet

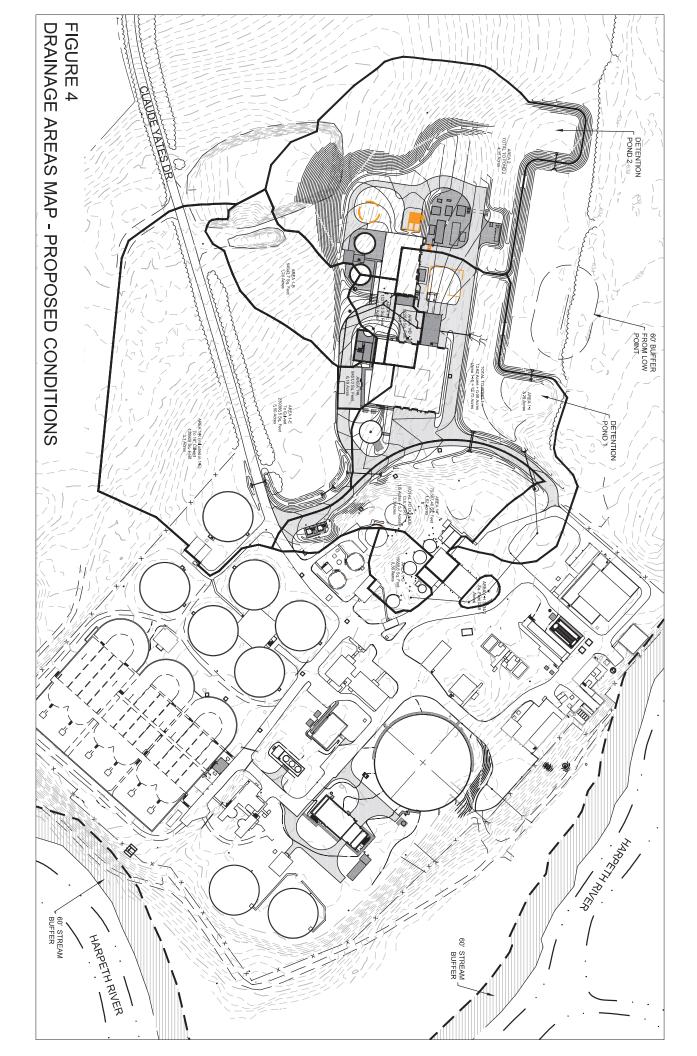
1,520

City of Franklin Water Reclamation Facility
Modifications & Expansion Project, Franklin
Williamson Co., TN

307 Hickerson Drive, Murfreesboro, TN 37129 (615) 663-7678 www.cia-engineers.com

**ASSOCIATES** 





# Appendix E

# **Grading and Drainage Plans**

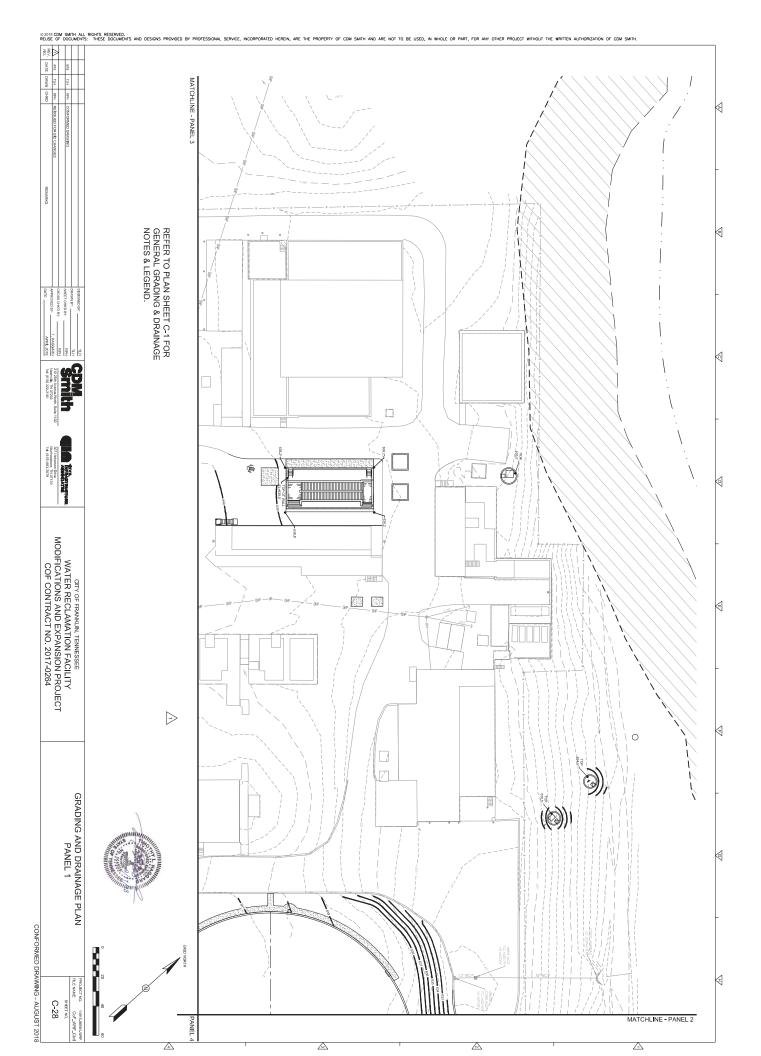
(Including "General Civil Notes and Legend", and

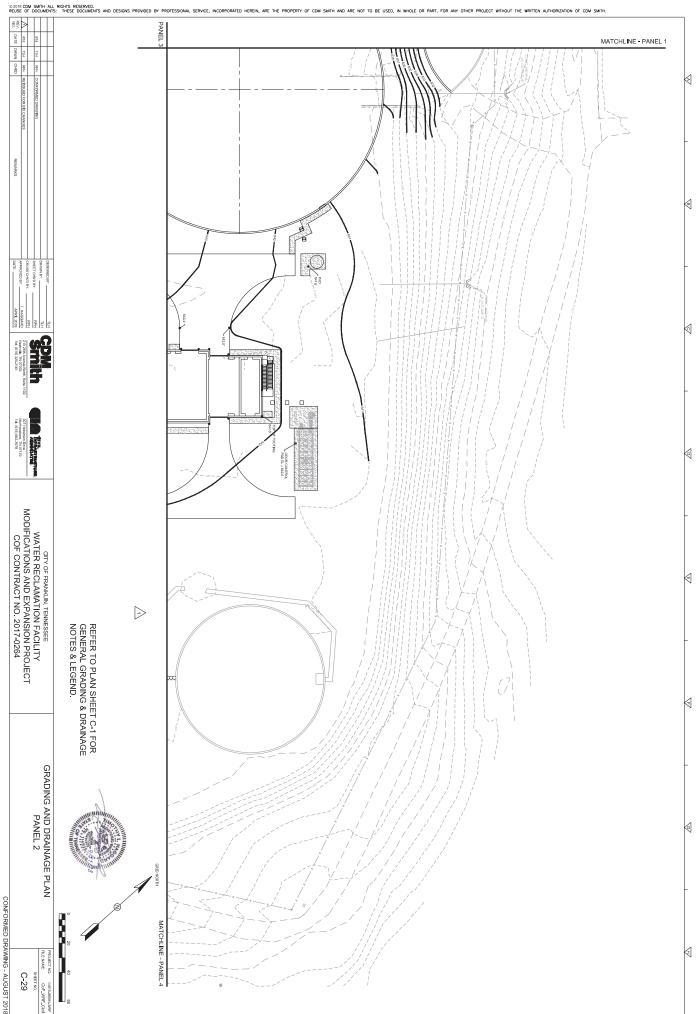
"Site Layout and Key Map" Sheets)



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CONFORMED DRAWING - AUGUST 2018

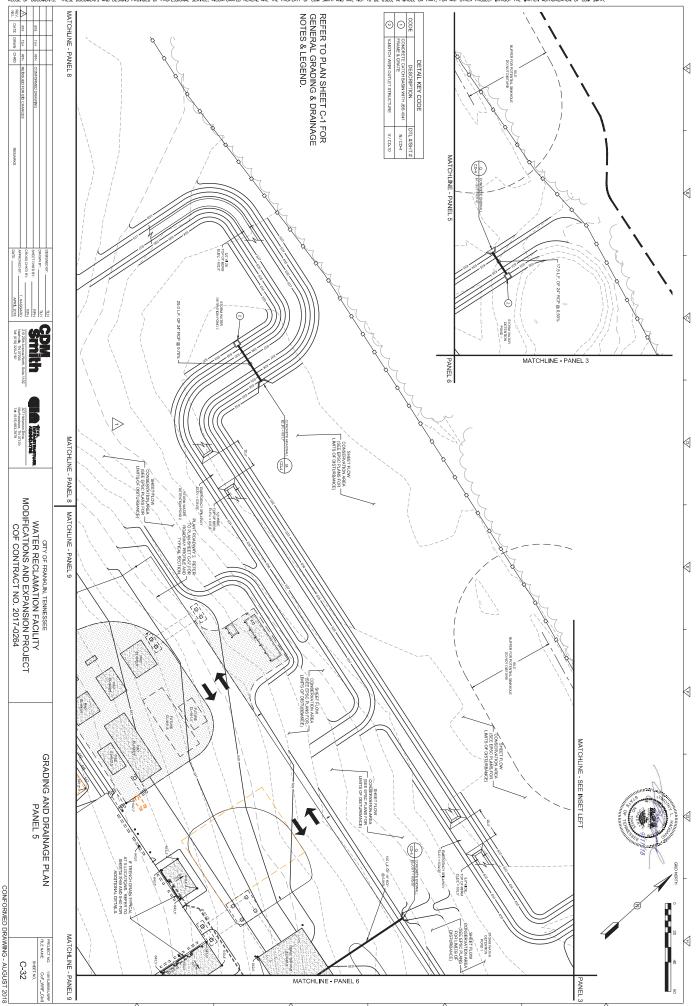


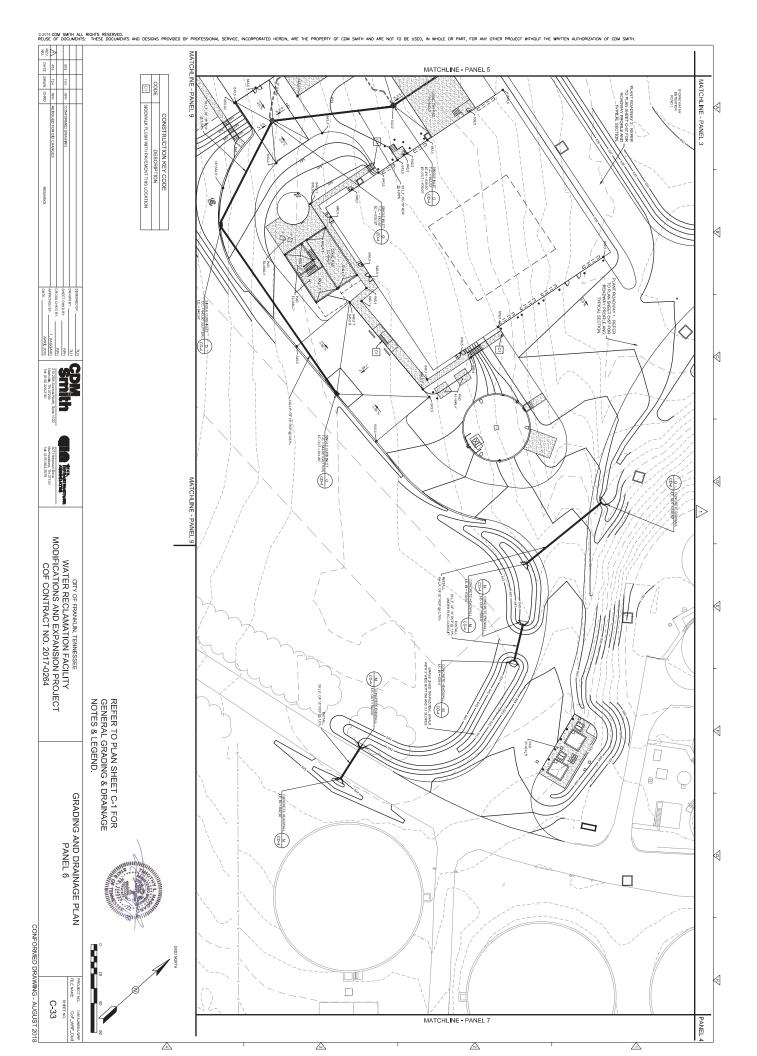


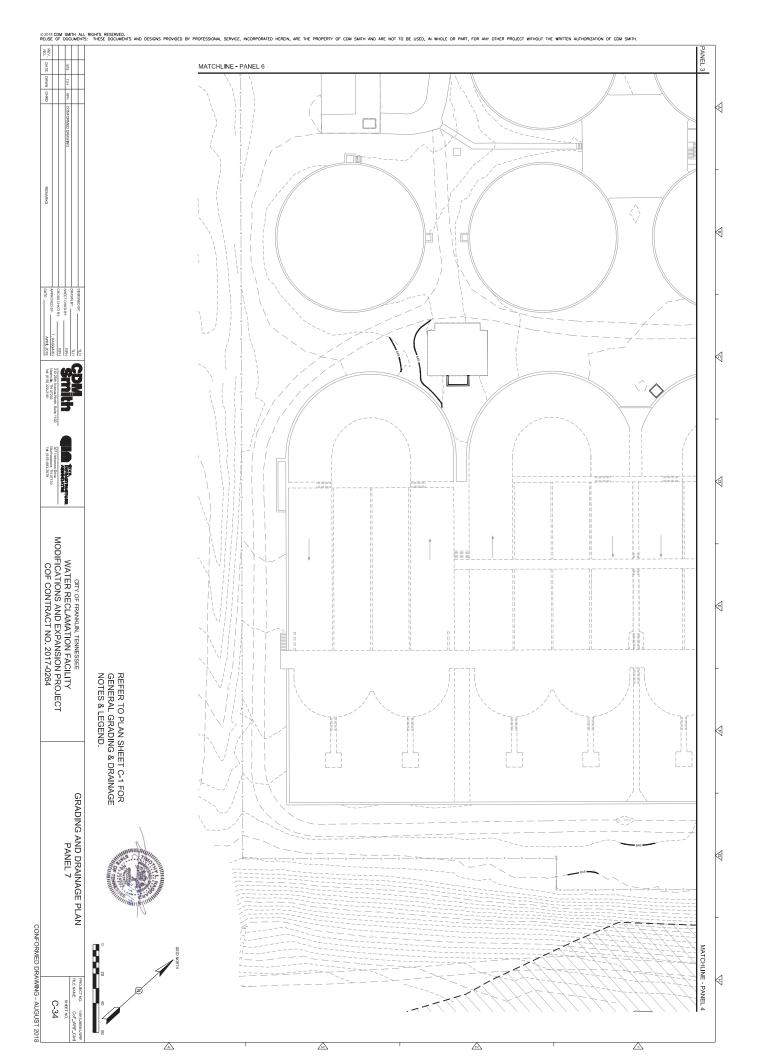
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