



Attachment D – East William Street Environmental Technical Memos

MEMORANDUM

Date: March 31, 2022

To: Darren Anderson, Carson City Public Works

From: NCE

Subject: East William Street Environmental Feasibility Study Project:
Aquatic Resources Technical Memo

Carson City has retained NCE to conduct background research and database searches on behalf of the East William Street Environmental Feasibility Study (project) to inform environmental and planning tasks that will need to be addressed during a future National Environmental Protection Act (NEPA) action. The areas of focus for this technical memorandum include aquatic resources as described below.

PROJECT DESCRIPTION

The project is located in Carson City County, Nevada, south of Reno and Washoe Lake (**Figure 1**, figures are provided in **Appendix A**). The project area established for the project runs along roughly 1.46 miles of East William Street for a total size of roughly 23.1 acres (**Figure 2**). The project will be located within the existing Carson City right of way (ROW) of East William Street. Where necessary, the project will extend into adjacent parcels to accommodate improvements such as parking lot and driveway tie-ins, sidewalks, intersection corners, and utility service reconnections (see **Figure 2**).

The project will reconstruct and rehabilitate East William Street from Carson Street to the I-580 Interchange. The project will include partial reconstruction of the roadway; installation of new curbs, gutters, sidewalks, and multi-use pathways; Americans with Disabilities Act upgrades; Access Management revisions; utility replacements; and landscaping.

Proposed project activities were evaluated for potential impact to aquatic resources as described below.

AQUATIC RESOURCES EVALUATION

NCE's aquatic resources team conducted project mapping to determine whether the project area contained aquatic resources such as drainages and/or wetlands and evidence if these features demonstrate a hydrologic connection to a traditional navigable waterway (TNW). Features with these characteristics would be indicative of federal U.S. Army Corps of Engineers (USACE) jurisdictional waters of the U.S. (WOUS) due to proximity and connection to the Carson River, a TNW, as well as State of Nevada jurisdictional waters of the state (WoS).

Results

NCE reviewed the project mapping to assist in the determination of whether the project contains potential jurisdictional aquatic resources. The project area was plotted on a USGS 7.5-minute quadrangle map to understand if the project contained "blue line drainages" which are indicative of aquatic resources (**Figure 3**). As a result, the project area does not contain any blue line drainages. Also, the project area was placed on the U.S. Fish and Wildlife Service (USFWS), National Wetland Inventory (NWI) map to understand if the project contained mapped wetlands (**Figure 4**). As a result, the project area does not contain any USFWS NWI mapped wetlands. Lastly, the project area was compared to the Natural Resources Conservation Service (NRCS) soils database to understand if hydric soils are present within the project area (**Figure 5**). The NRCS data indicates one type of hydric soil (Orizaba loam, saline-alkali) is present within the project area at the easternmost corner of the site, just east of Russell Way. Although this soil type suggests potential WOUS and/or WoS, there will be no impacts to the hydric soils.

Using current aerial imagery, NCE identified a drainage ditch east of the Carson City Skate Park in Mills Park (**Figure 6**). This drainage ditch has not been identified on USGS or USFWS mapping; however, may be a WoS per Nevada Revised Statutes 445A.415. The term "Waters of the State" means: *all waters situated wholly or partly within or bordering upon this State, including but not limited to:*

1. *all streams, lakes, ponds, impounding reservoirs, marshes, water courses, waterways, wells, springs, irrigation systems and drainage systems; and*
2. *all bodies or accumulations of water, surface and underground, natural or artificial".*

The drainage ditch may be a state water course, waterway, or an irrigation or drainage system. NCE understands there are no proposed impacts to this drainage ditch. If there is a need to impact the drainage ditch, NCE recommends conducting a formal aquatic resources delineation to determine the jurisdictional limits.

Based on a review of existing mapping, imagery, and the understanding that no project activities will impact hydric soils, it is NCE's professional opinion the project

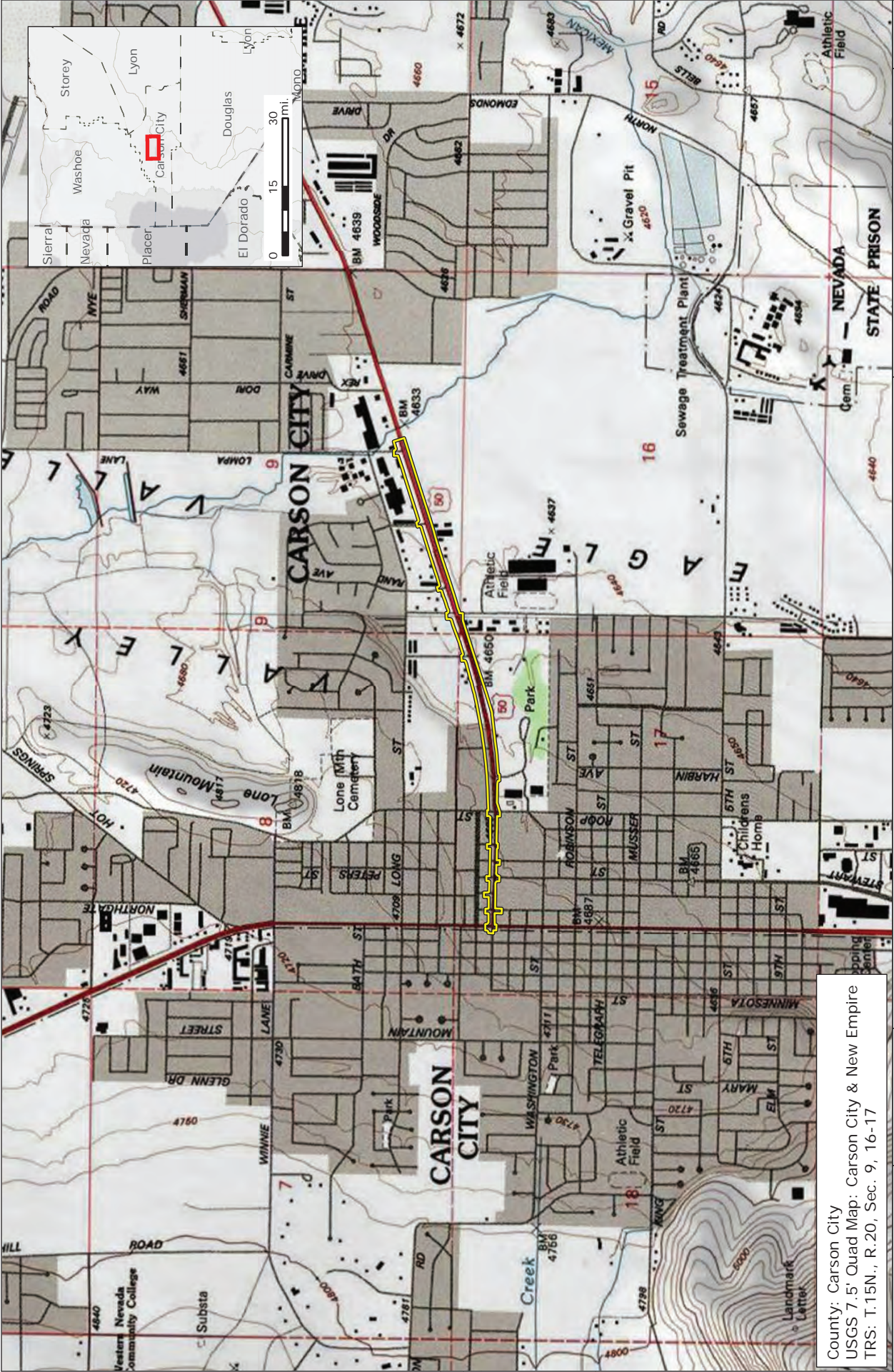
Reno, NV
1885 S. Arlington Ave., Suite 111
Reno, NV 89509
(775) 329-4955

area does not contain federal or State of Nevada potentially jurisdictional aquatic resources.

Attachments:

Appendix A Figures

Appendix A Figures



<p>Legend</p> <p> Project Area</p>	<p>County: Carson City USGS 7.5' Quad Map: Carson City & New Empire TRS: T.15N., R.20, Sec. 9, 16-17</p>	<p>East William Street Environmental Feasibility Study Project Project Vicinity Map</p>	<p>FIGURE 1</p>	
<p>Scale: 1:24,000 0 1,000 2,000 ft.</p>		<p>DATE: 1/25/2022 DRAWN: sdavenport JOB NUMBER: 953.11.25</p>		<p>REVISED: 3/23/2022 APPROVED: jhall</p>
<p>Document Path: P:\Active Projects\Carson City - Enviro\GIS\AGSP\sdavenport\East William Street - sdavenport.aprx</p>				



ANCE




FIGURE 2a

1 in. = 200 ft.



North arrow pointing up

East William Street Environmental Feasibility Study Project
Project Location Map



Legend

 Project Area

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SOURCE	Carson City Ortho Imagery



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1 in. = 200 ft.
0 100 200 ft.

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East William Street Environmental Feasibility Study Project
Project Location Map

Legend

Project Area

FIGURE	2b	APPROVED	jhall
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SOURCE	Carson City Ortho Imagery		



FIGURE 2C

1 in. = 200 ft.
 0 100 200 ft.

DATE 1/25/2022
 DRAWN sdavenport
 JOB NUMBER 953.11.25

REVISOR 3/23/2022
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SOURCE Carson City Ortho Imagery





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East William Street Environmental Feasibility Study Project

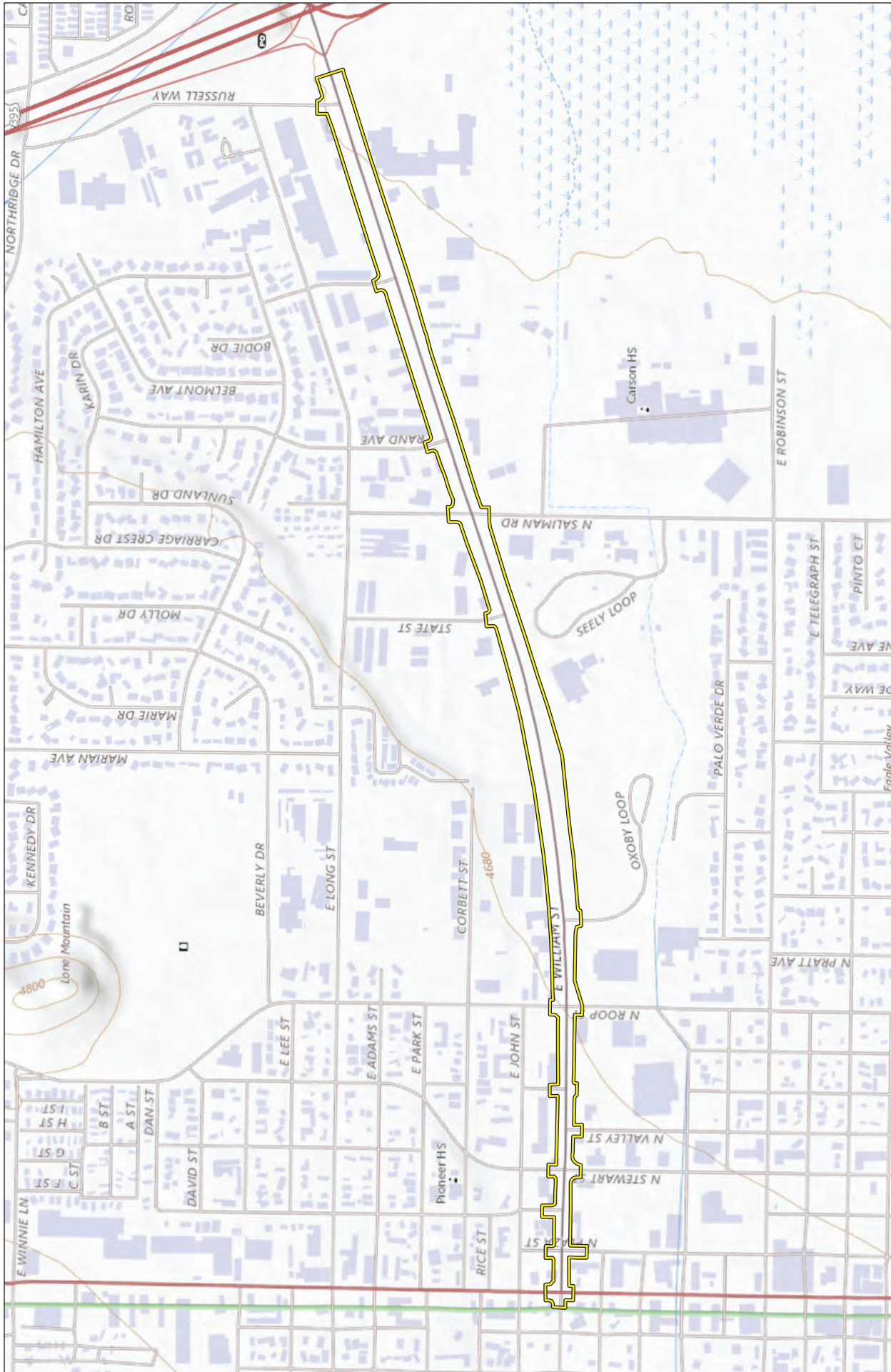
Project Location Map

Legend
 Project Area



 	<p>FIGURE 2d</p>	<p>APPROVED j.hall</p>
<p>1 in. = 200 ft.</p> 	<p>REVISED 3/23/2022</p>	<p>DATE 1/25/2022</p>
<p>Legend  Project Area</p>	<p>East William Street Environmental Feasibility Study Project Project Location Map</p>	<p>DRAWN sdavenport</p>
<p>SOURCE Carson City Ortho Imagery</p>	<p>JOB NUMBER 953.11.25</p>	<p>DATE 1/25/2022</p>





Legend
Project Area



East William Street Environmental Feasibility Study Project

USGS Topographic Map

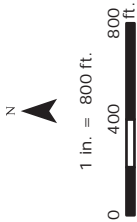


FIGURE
3

SOURCE
USGS Topographic Basemap

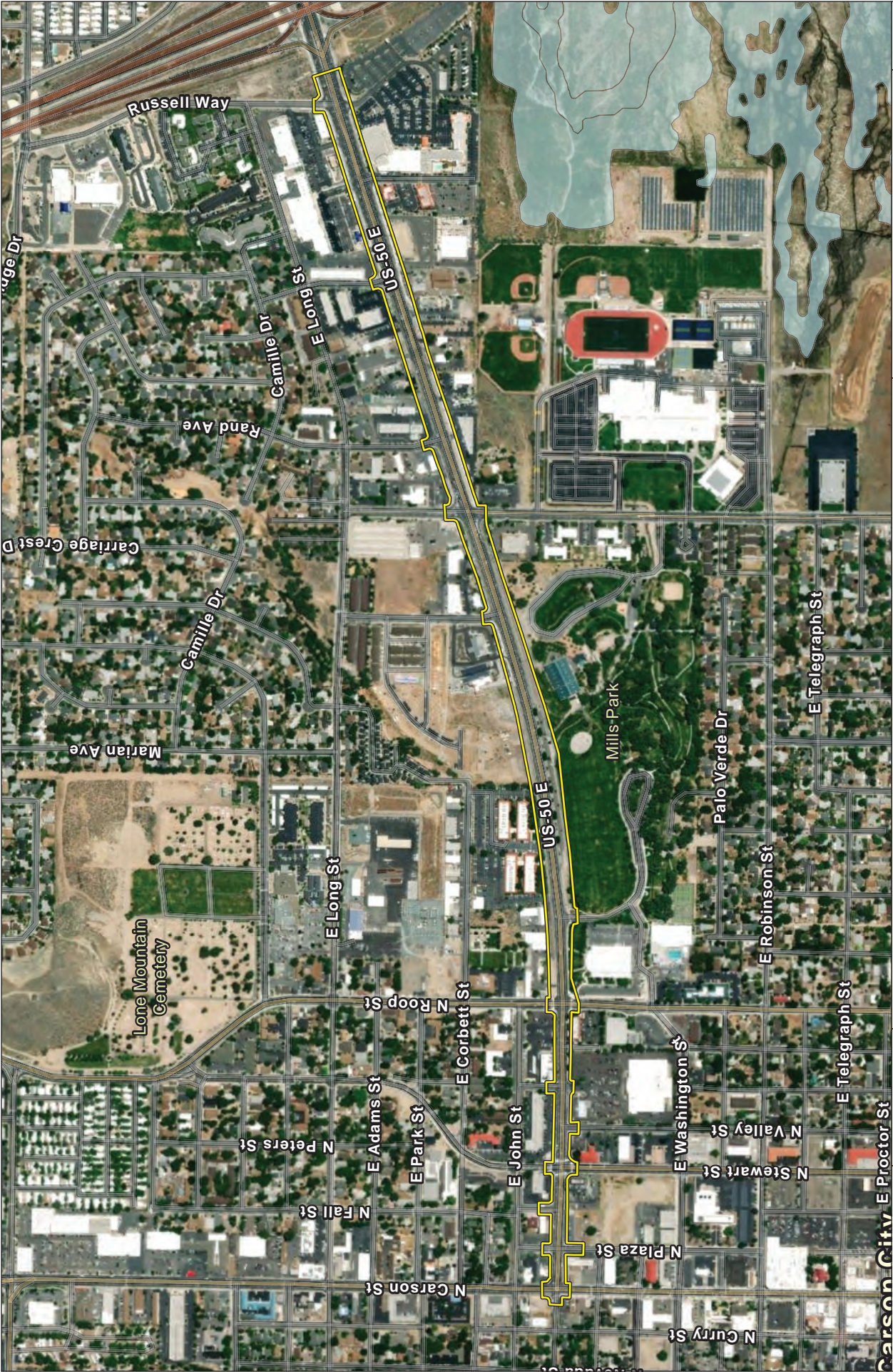
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	<p>East William Street Environmental Feasibility Study Project</p> <p>National Wetland Inventory (NWI) Map</p>	<p>FIGURE 4</p>
<p>Legend</p> <ul style="list-style-type: none"> Project Area Wetland Type <ul style="list-style-type: none"> Freshwater Emergent Wetland 	<p>Scale: 1 in. = 800 ft.</p> <p>0 400 800 ft.</p>	<p>DATE: 1/25/2022</p> <p>REVISER: 3/23/2022</p> <p>APPROVED: jhall</p>
<p>SOURCE: ESRI Imagery with Metadata: NWI</p>	<p>JOB NUMBER: 953.11.25</p> <p>DRAWN: sdavenport</p>	<p>Document Path: P:\ActiveProjects\Carson City - Enviro\GIS\AGPS\Development\East Williams Street - sdavenport.aprx</p>



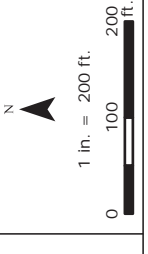
Legend
 Project Area



East William Street Environmental Feasibility Study Project
 Potential Waters of the State Map



FIGURE
6



SOURCE Carson City Ortho Imagery	JOB NUMBER 953.11.25	DATE 3/2/2022	REVISIONS 3/23/2022	APPROVED jhall
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