

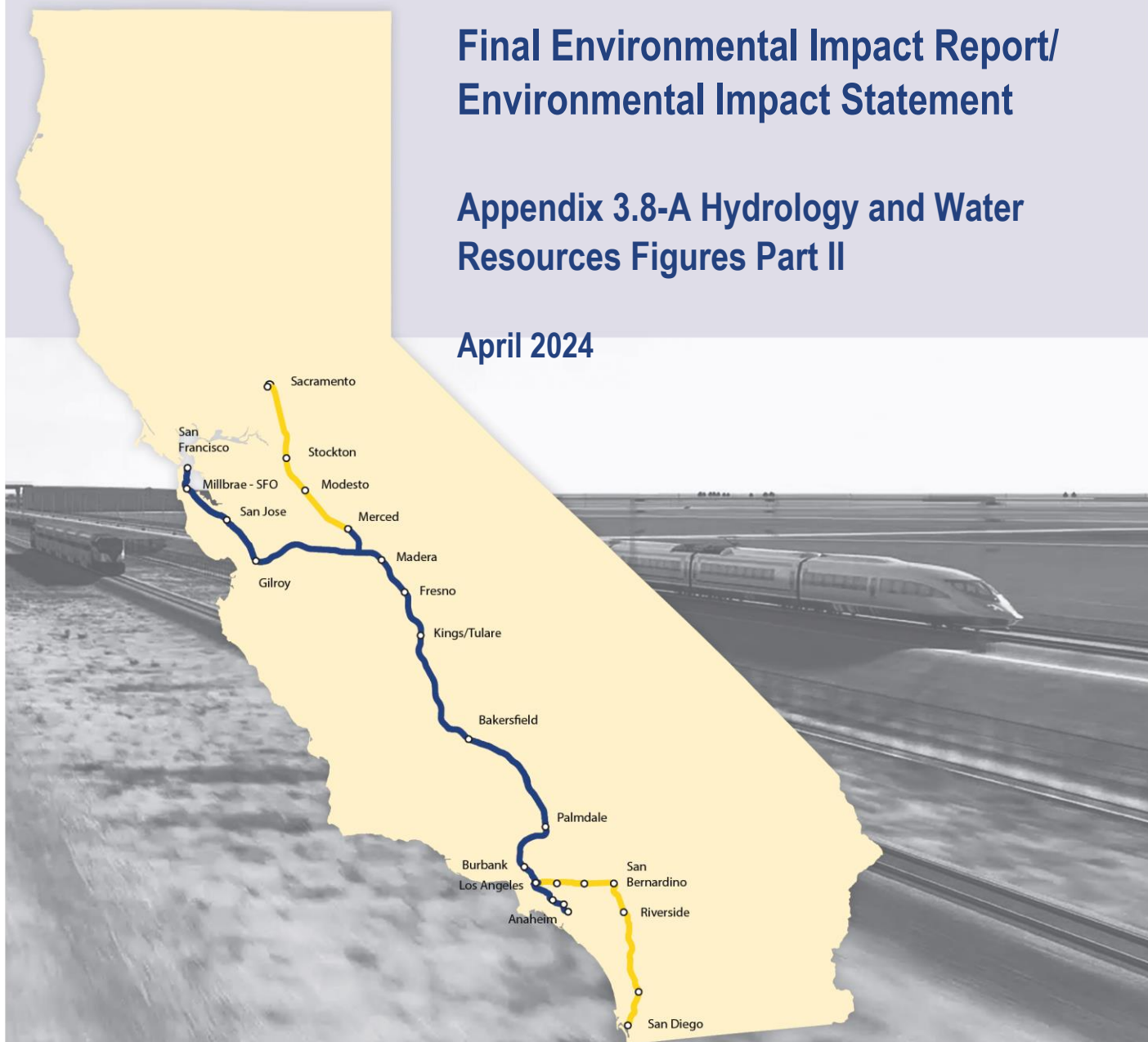
California High-Speed Rail Authority

Palmdale to Burbank Project Section

Final Environmental Impact Report/
Environmental Impact Statement

Appendix 3.8-A Hydrology and Water
Resources Figures Part II

April 2024



The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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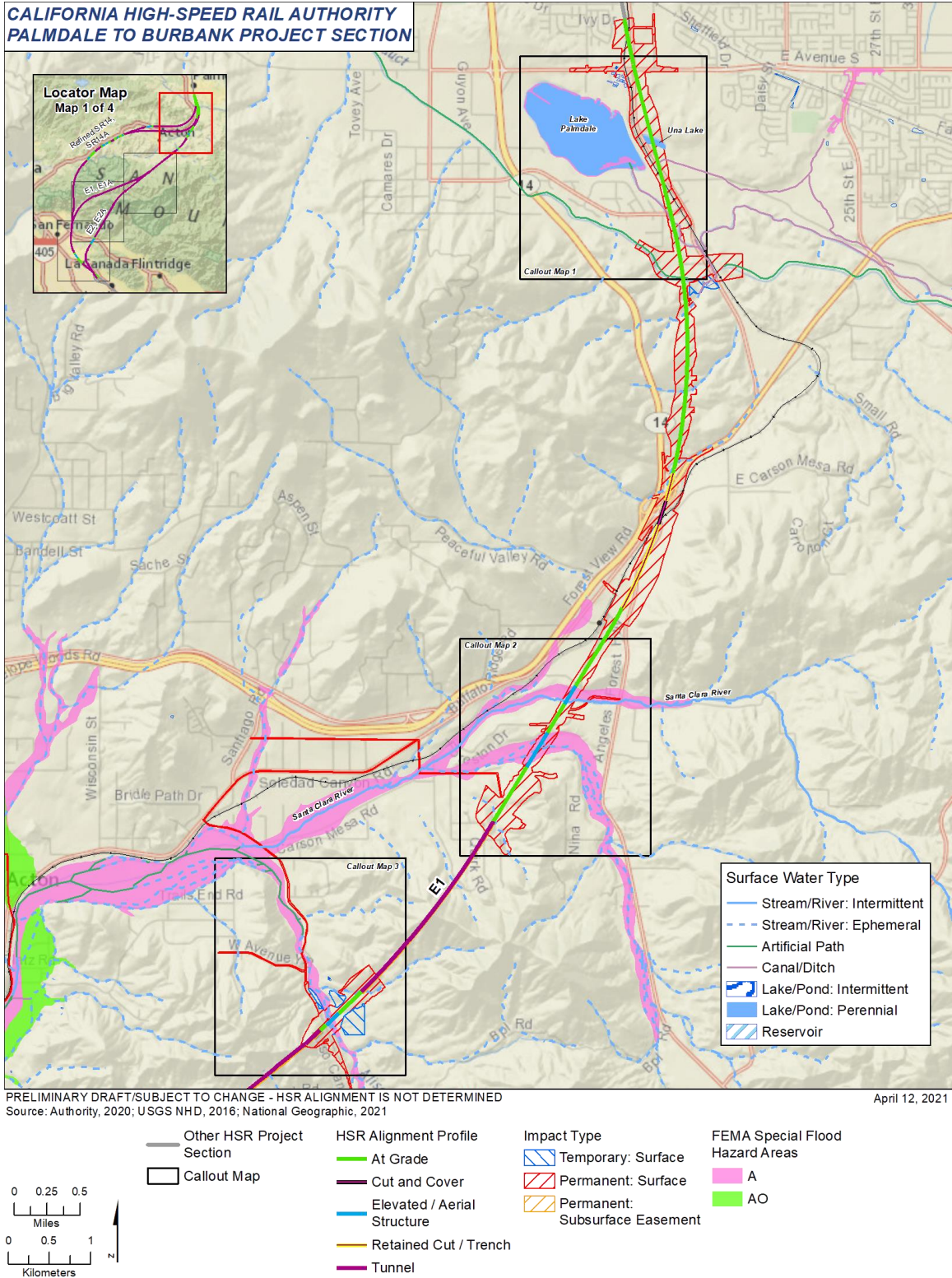


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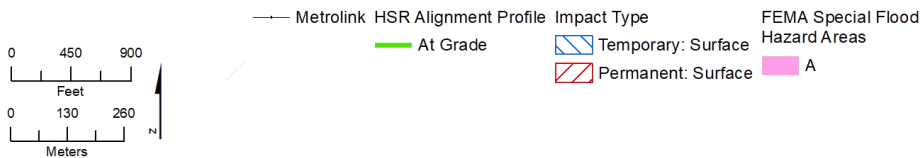
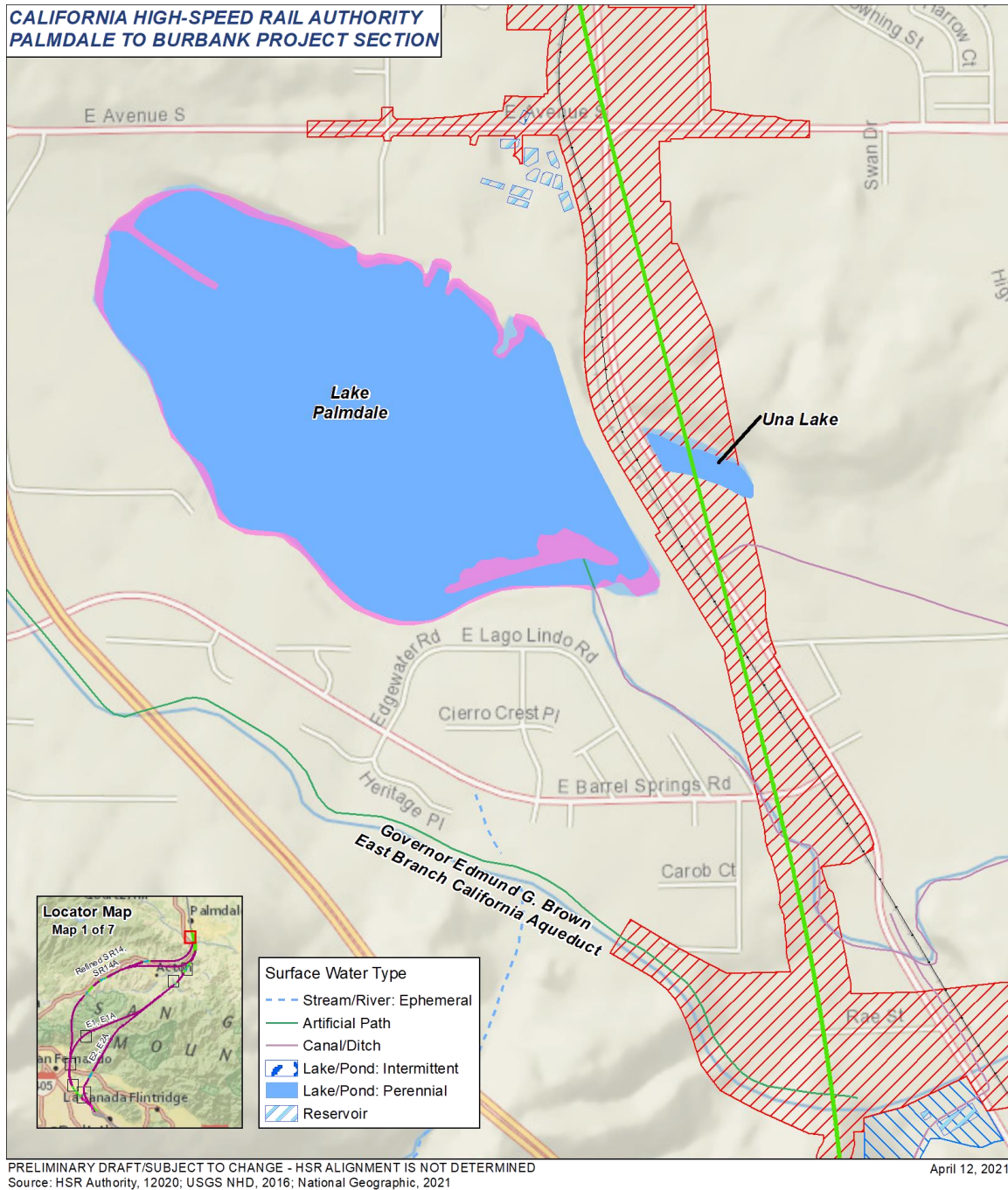
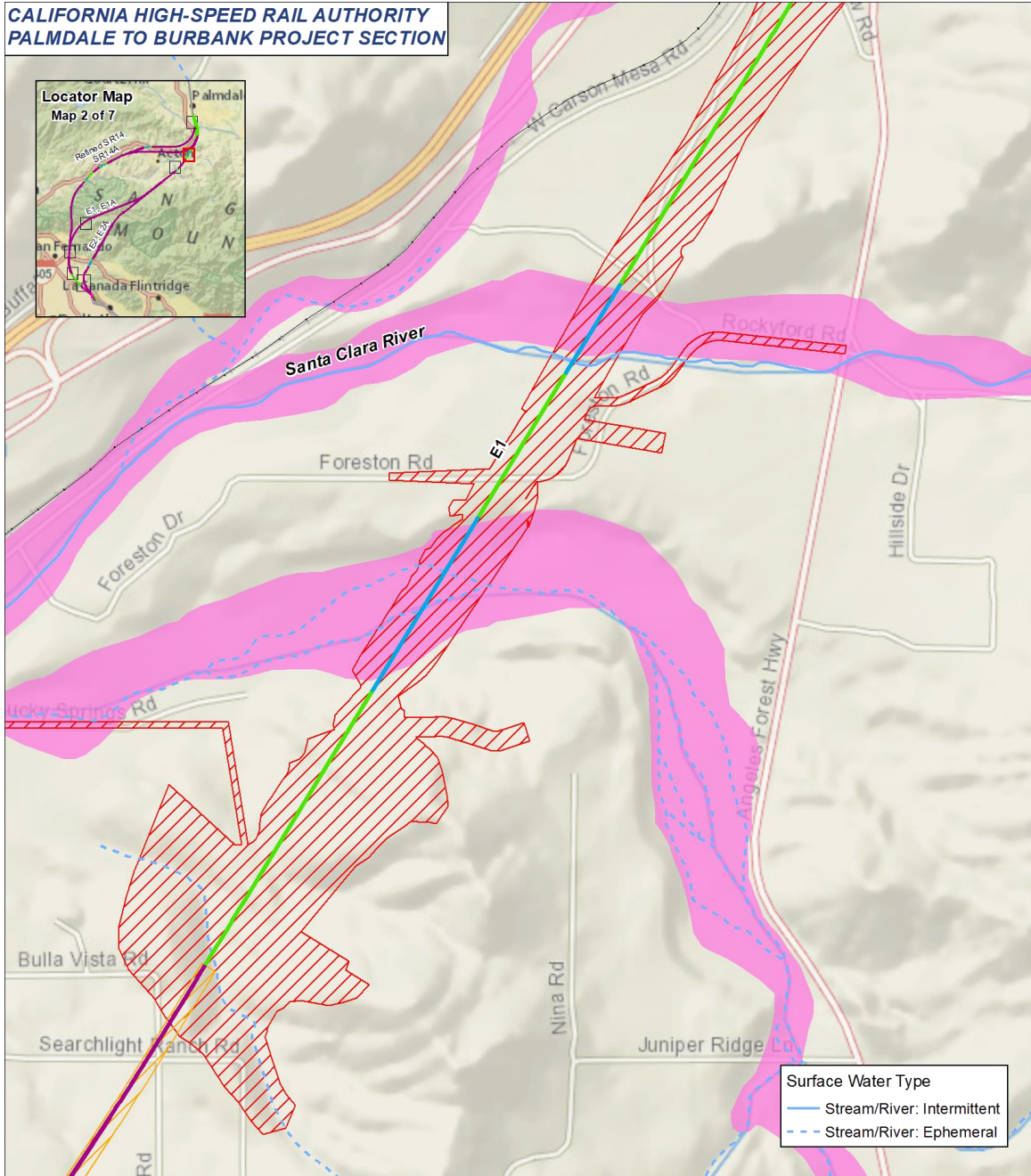


Figure 3.8-A-56 E1 Palmdale/Central Subsections Surface Waters Callout (Map 2 of 4)



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 Source: HSR Authority, 12020; USGS NHD, 2016; National Geographic, 2021

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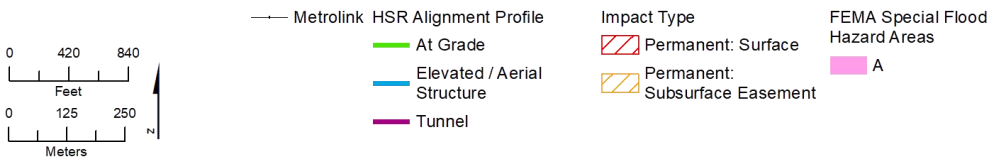
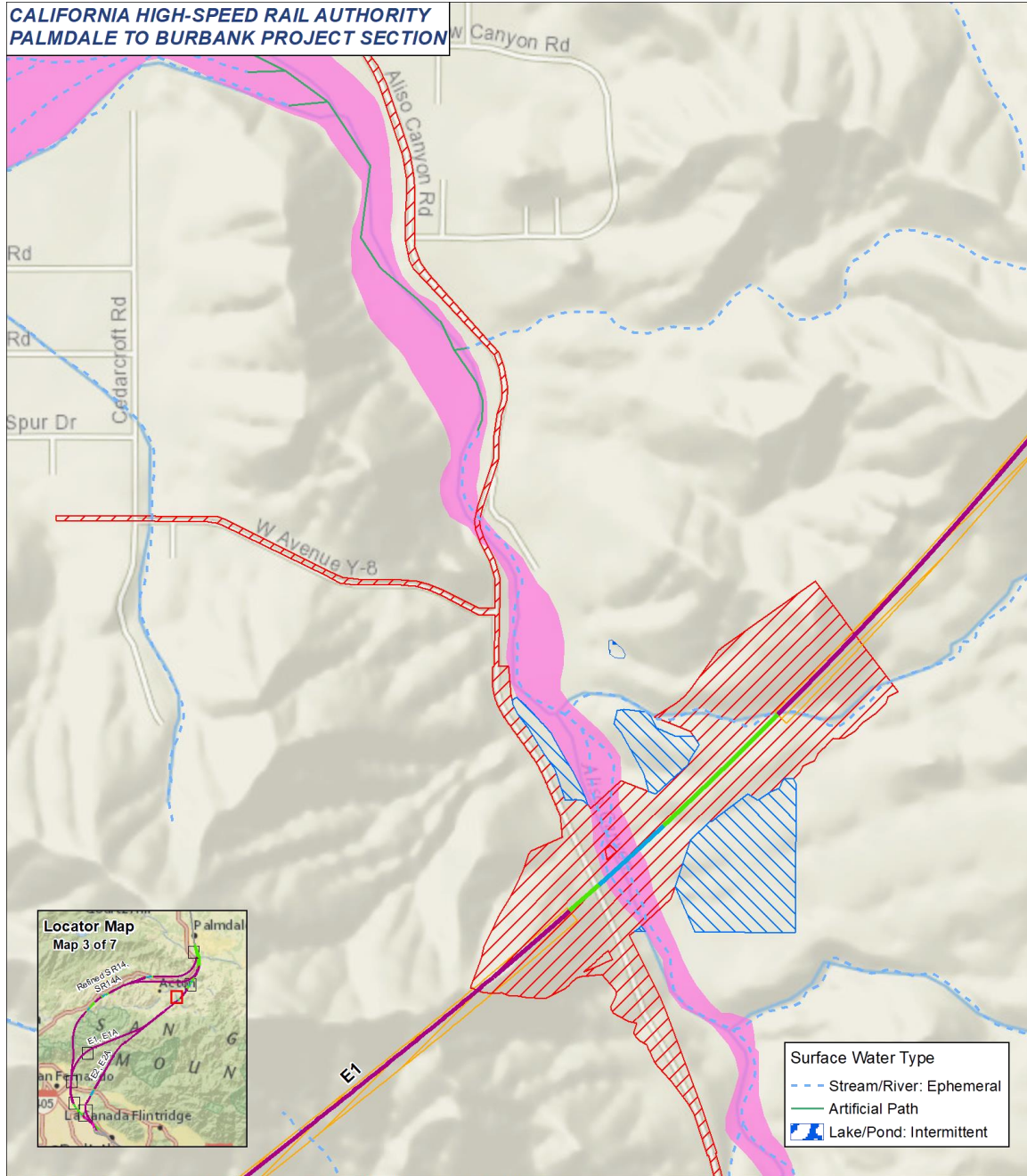


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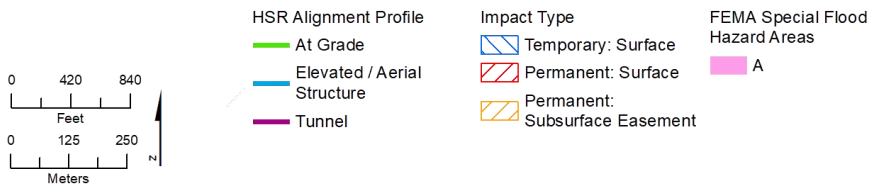
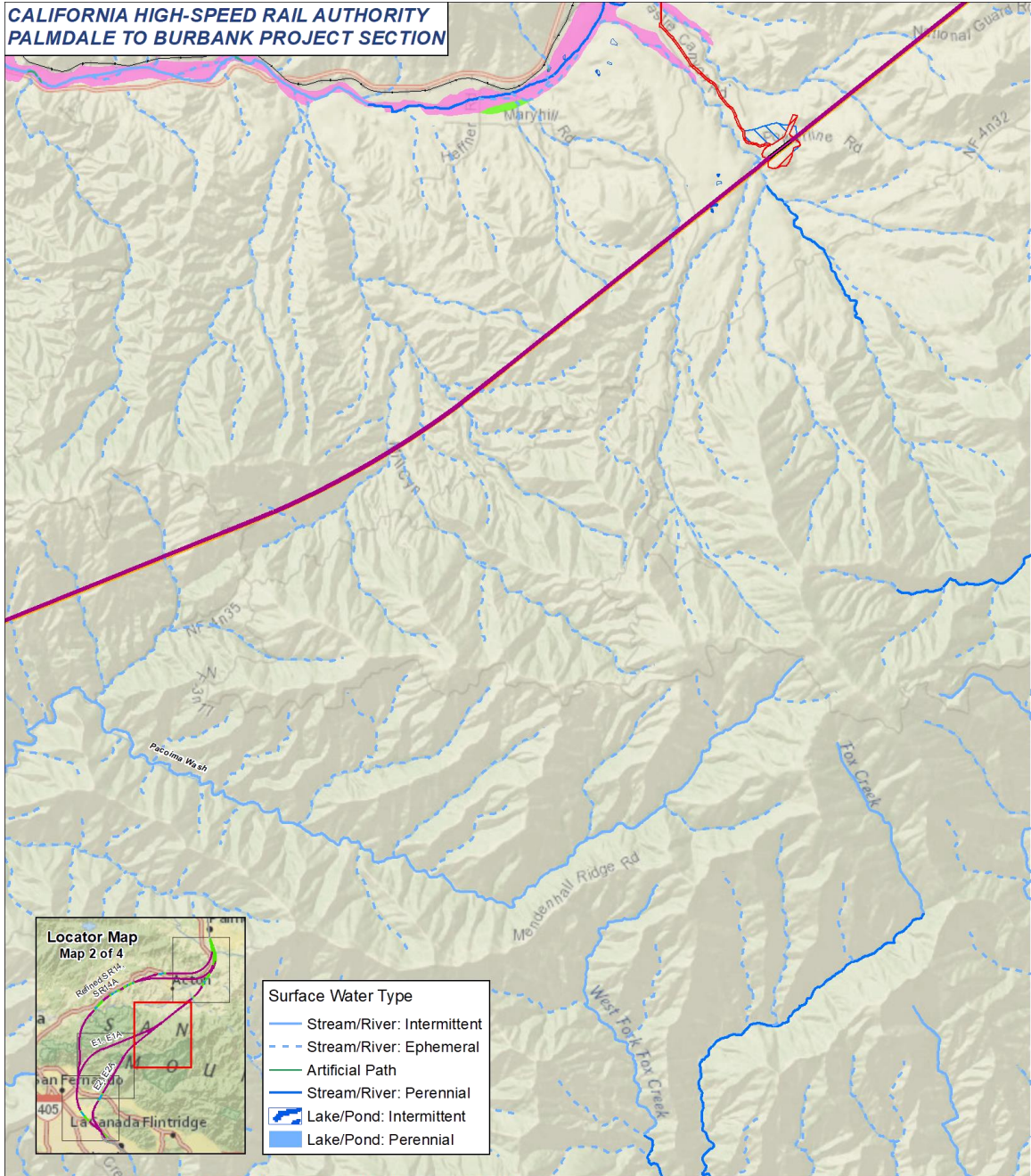


Figure 3.8-A-58 E1 Palmdale/Central Subsections Surface Waters Callout (Map 4 of 4)



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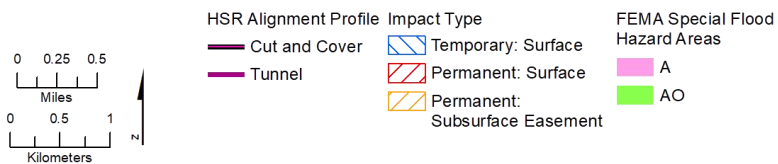


Figure 3.8-A-59 E1 Central Subsection Surface Waters Overview Map

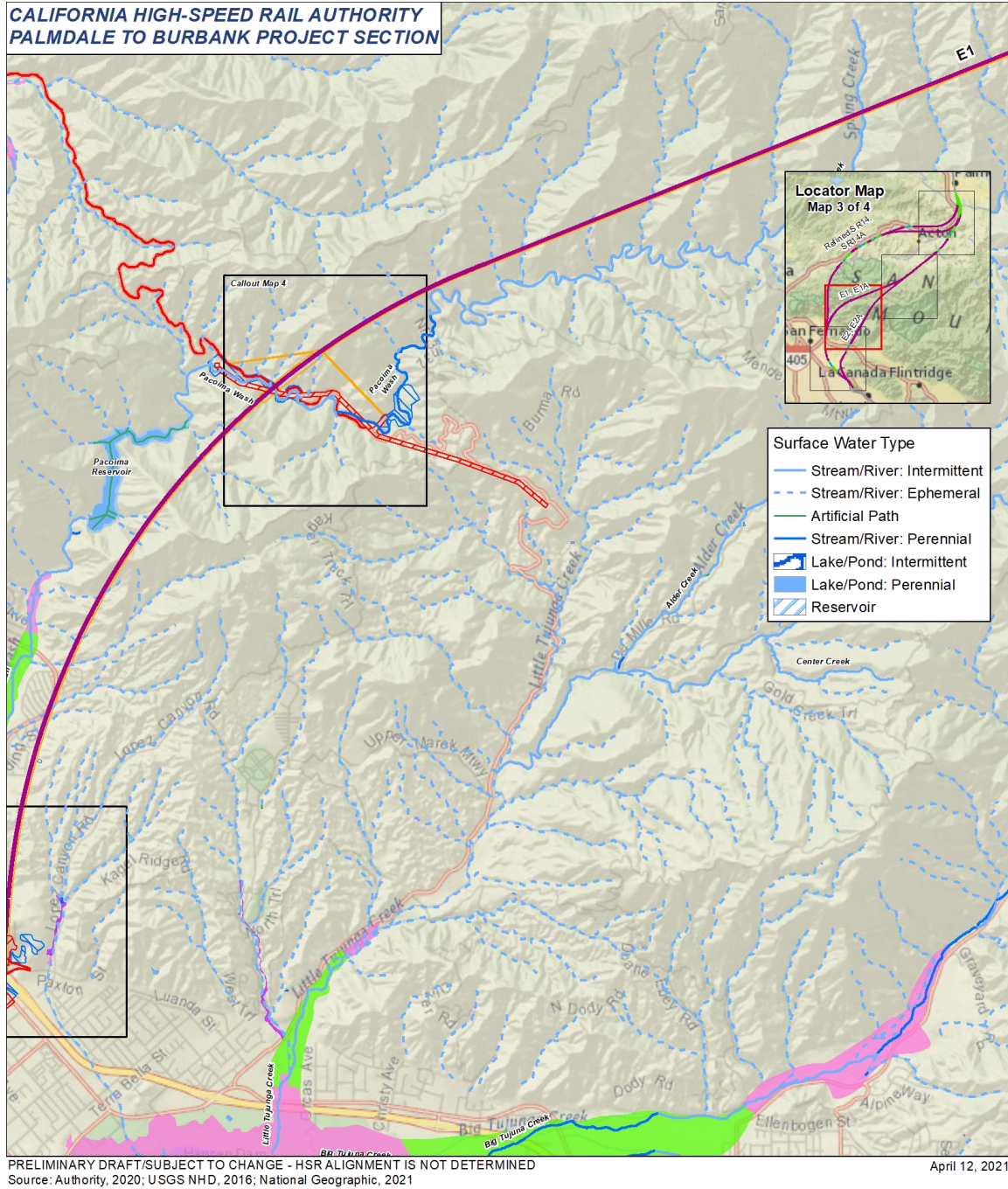


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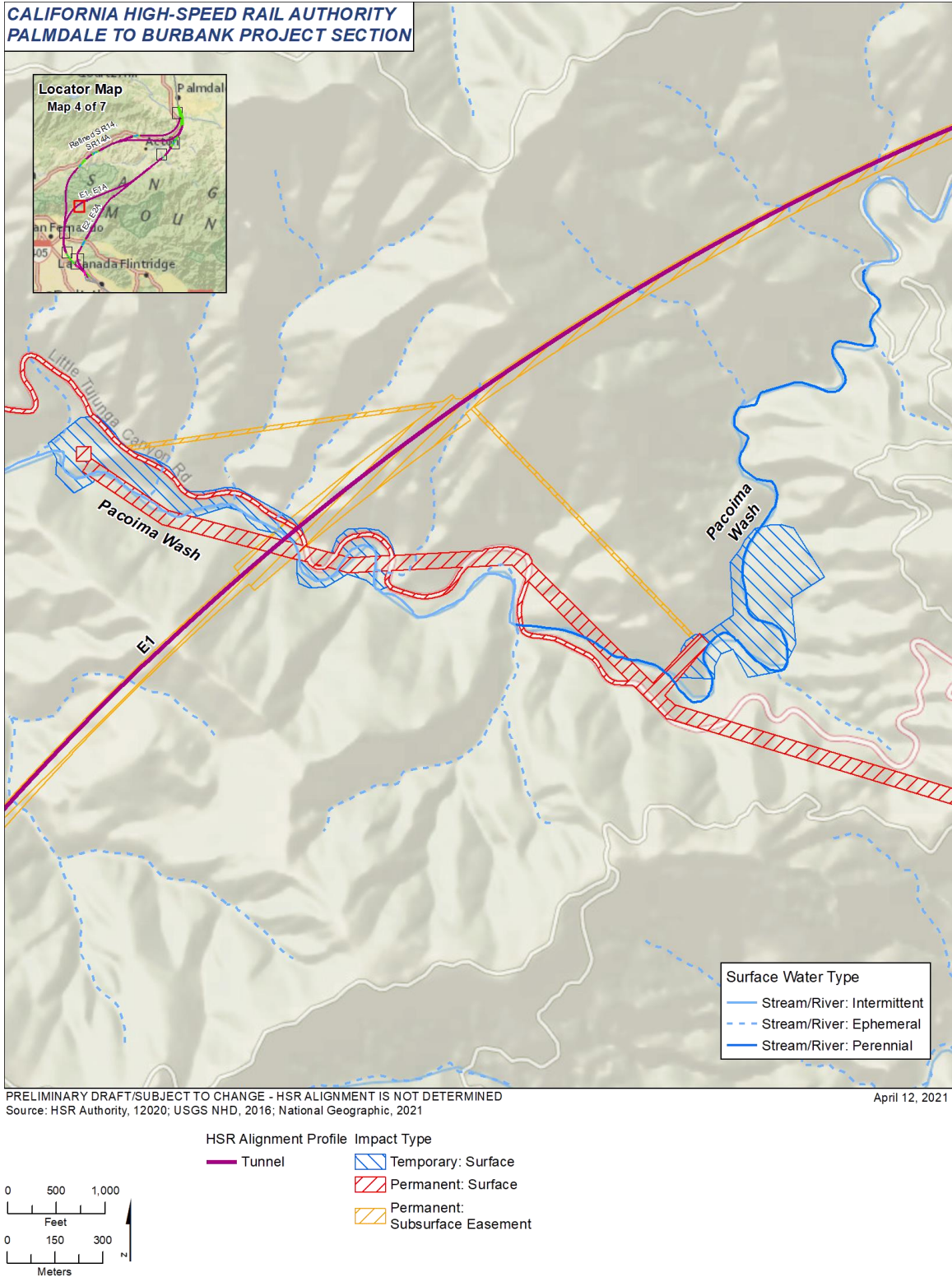


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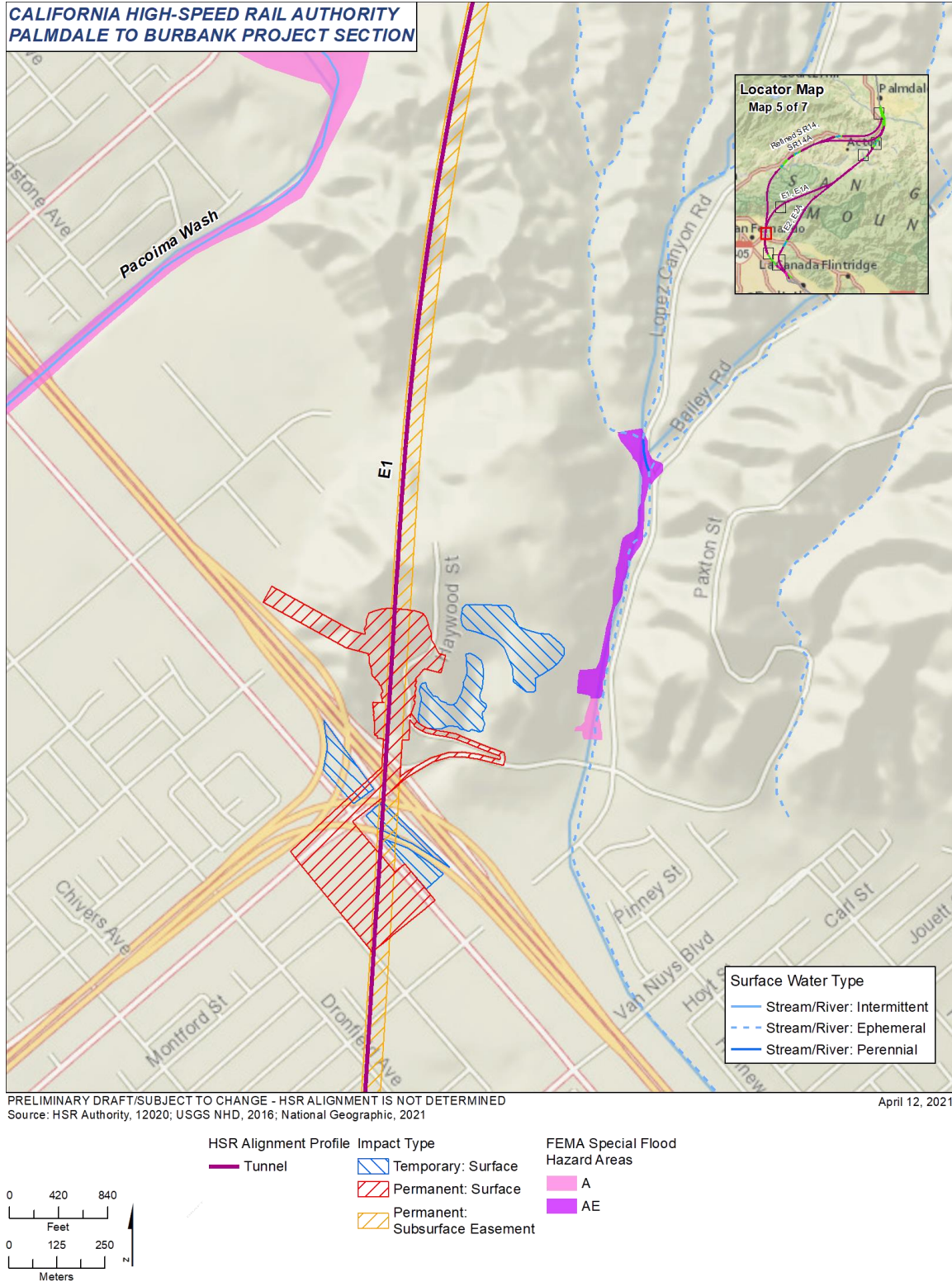


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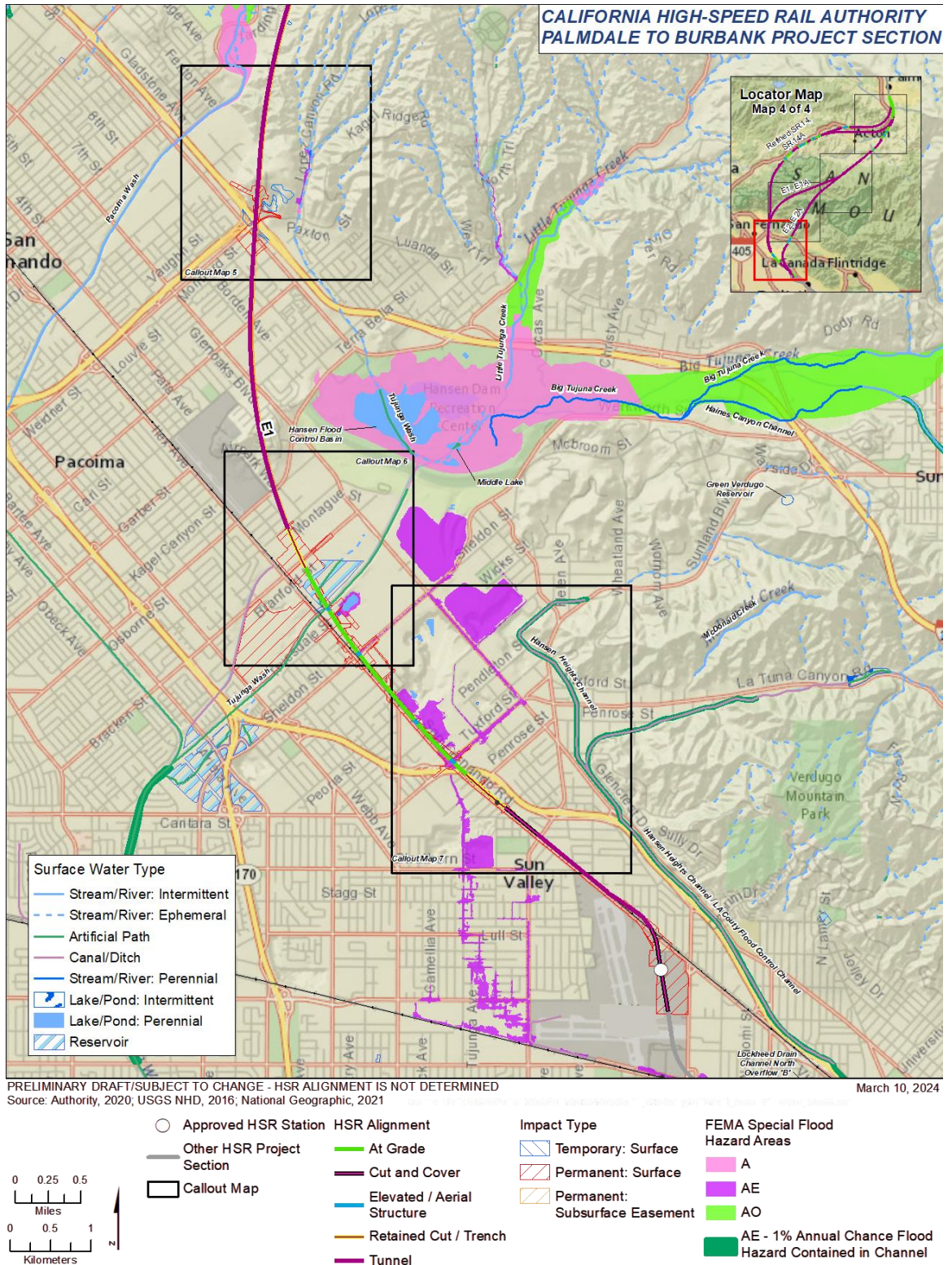


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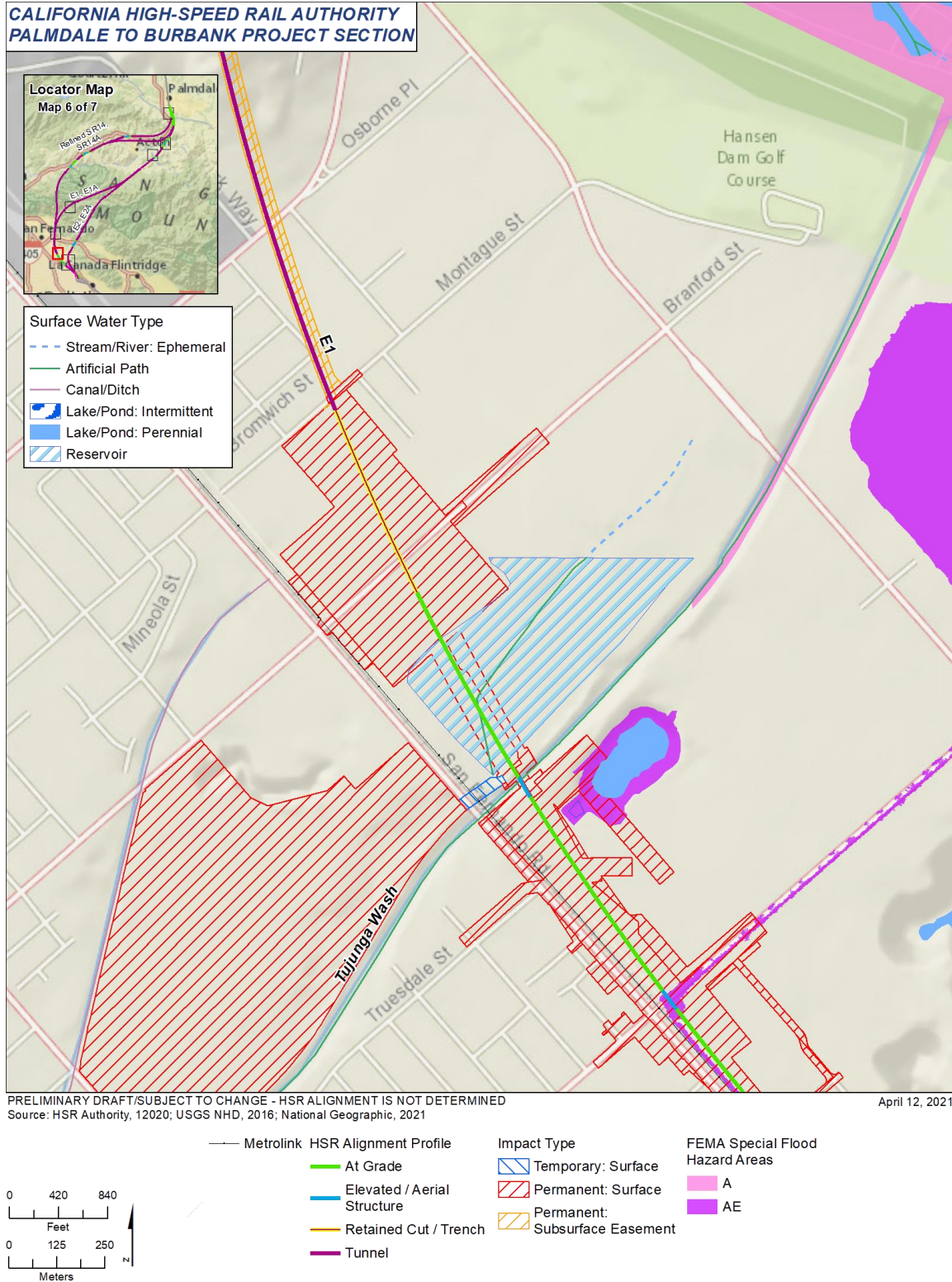


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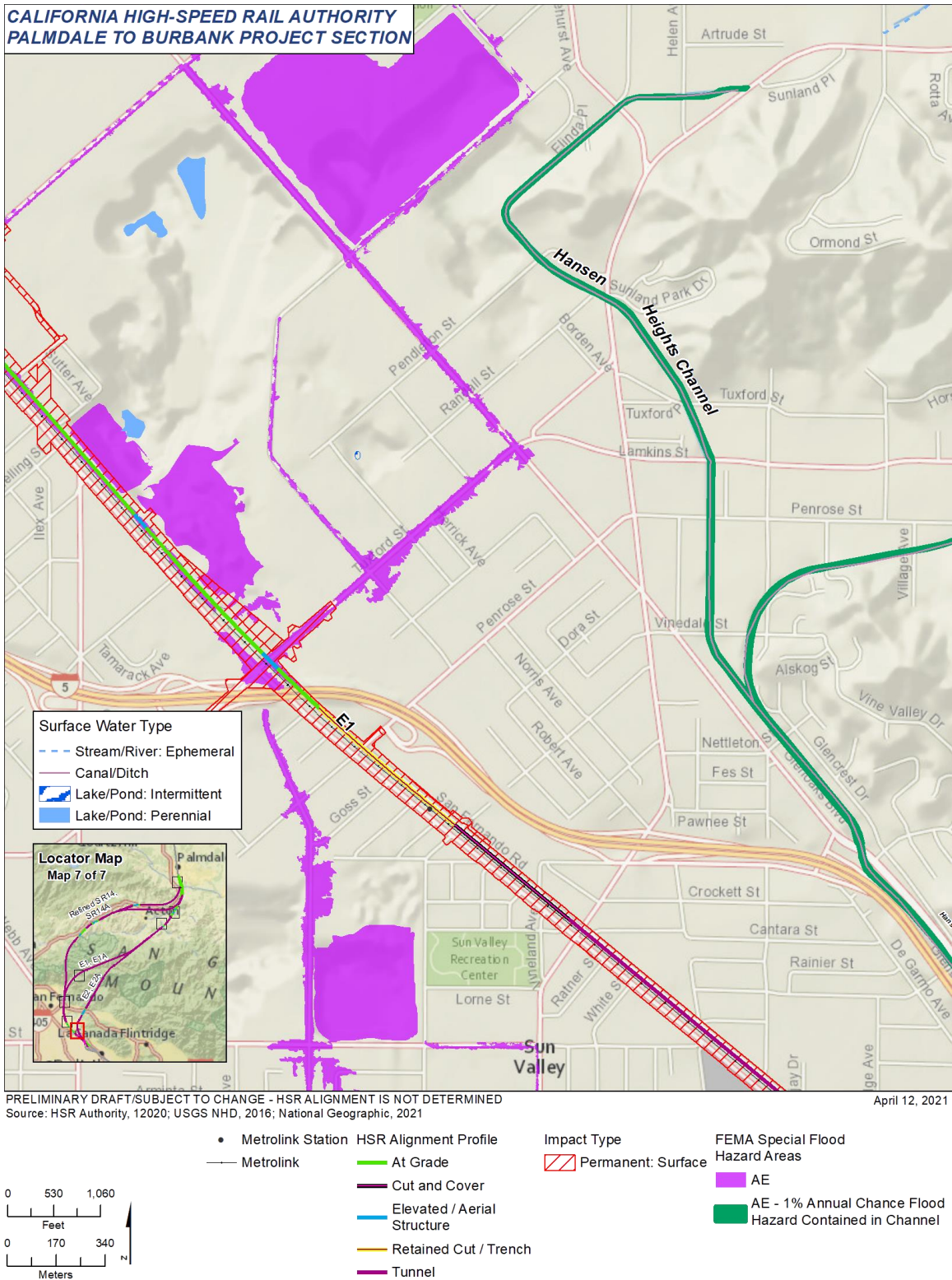
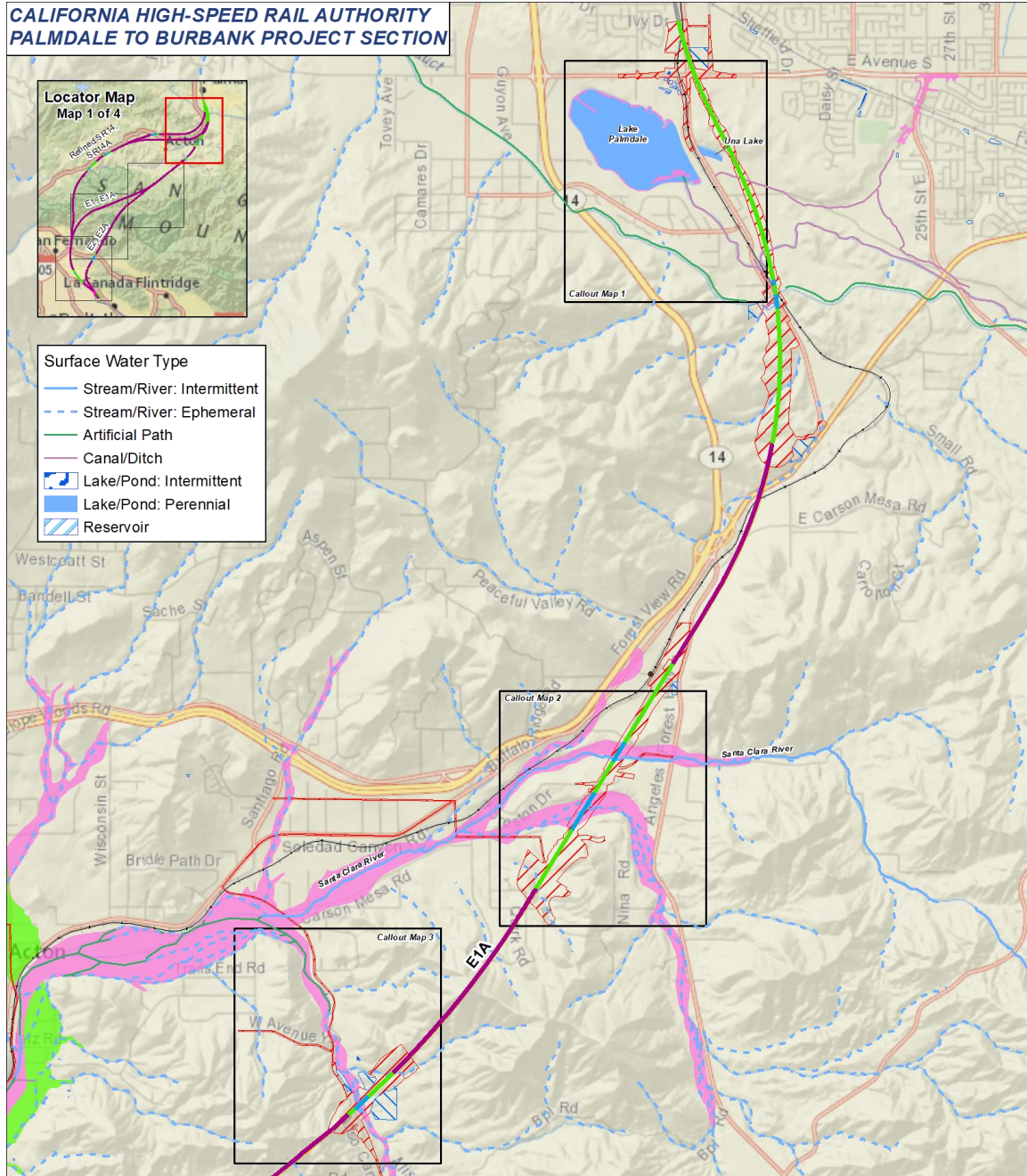


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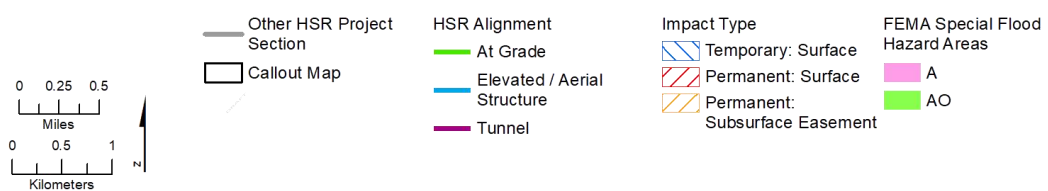


Figure 3.8-A-66 E1A Palmdale/Central Subsections Surface Waters Overview (Map 1 of 4)

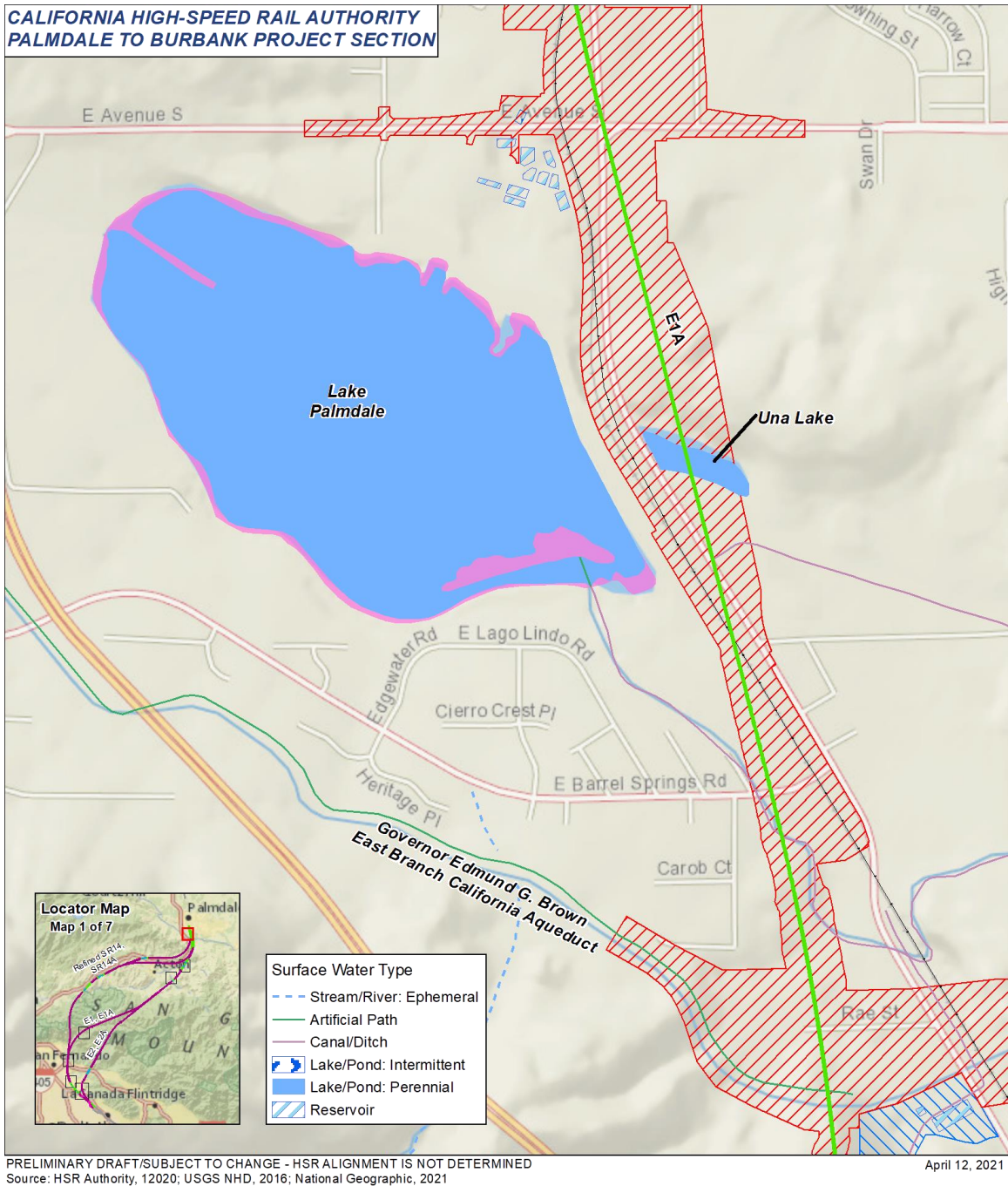


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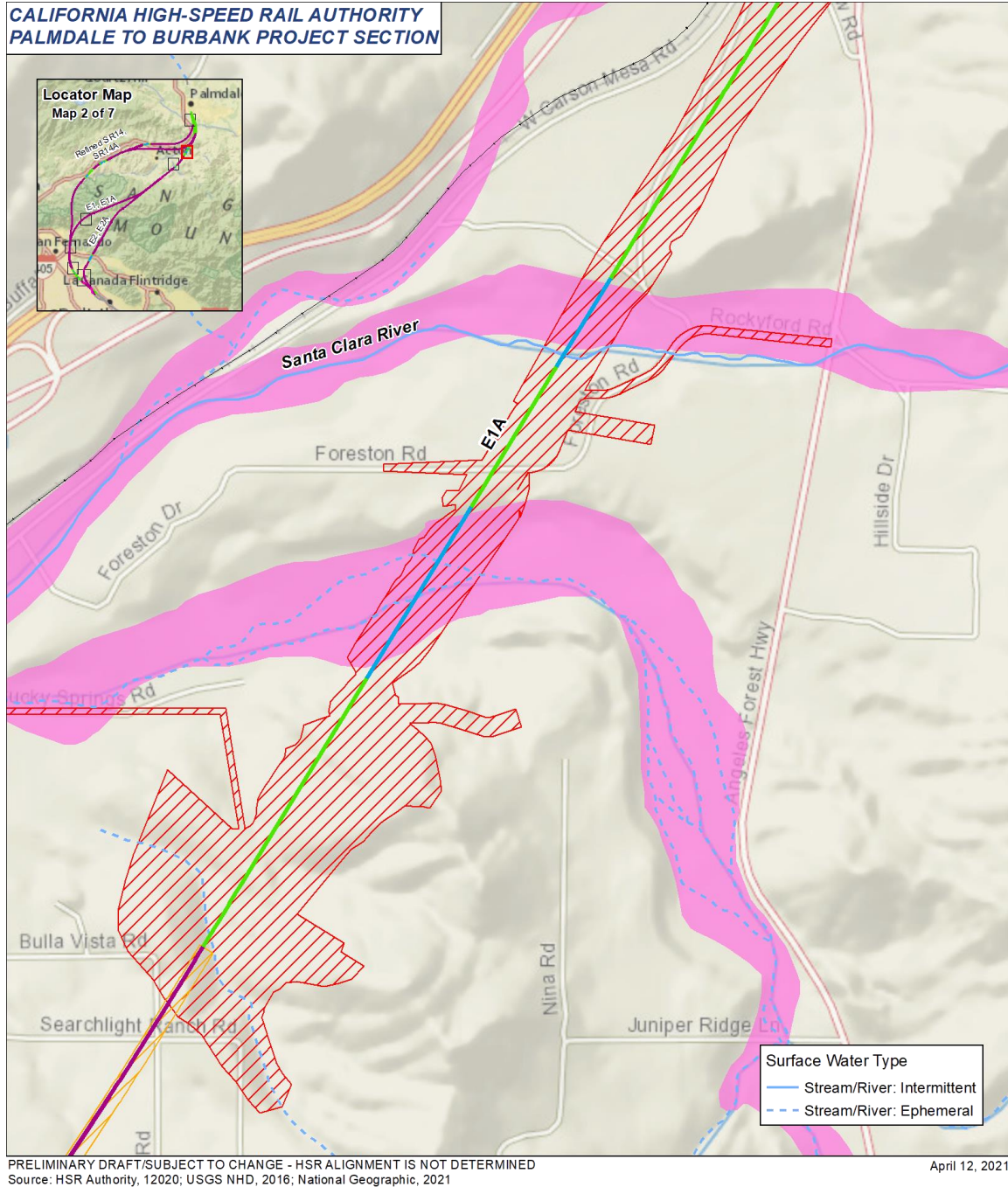


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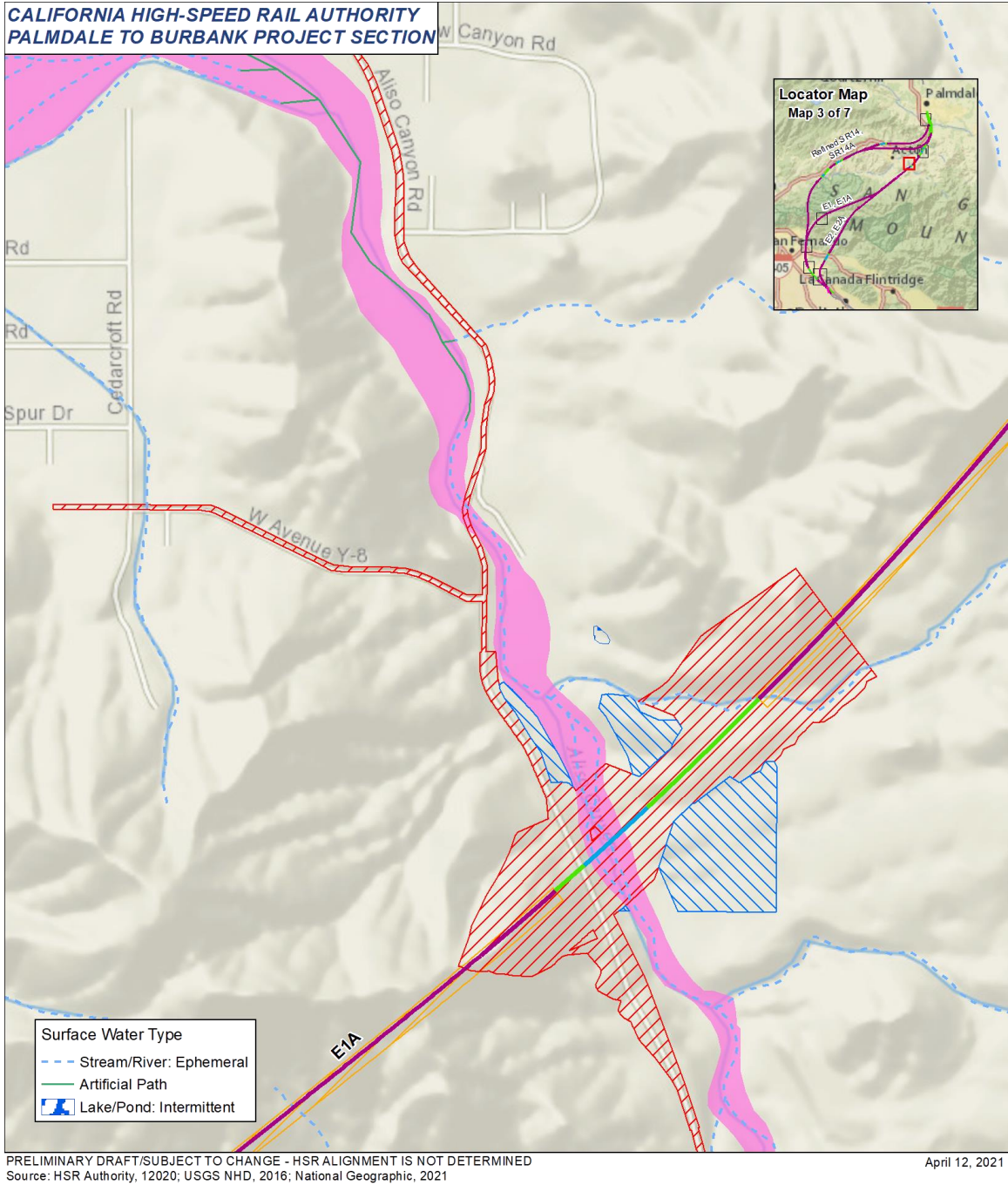
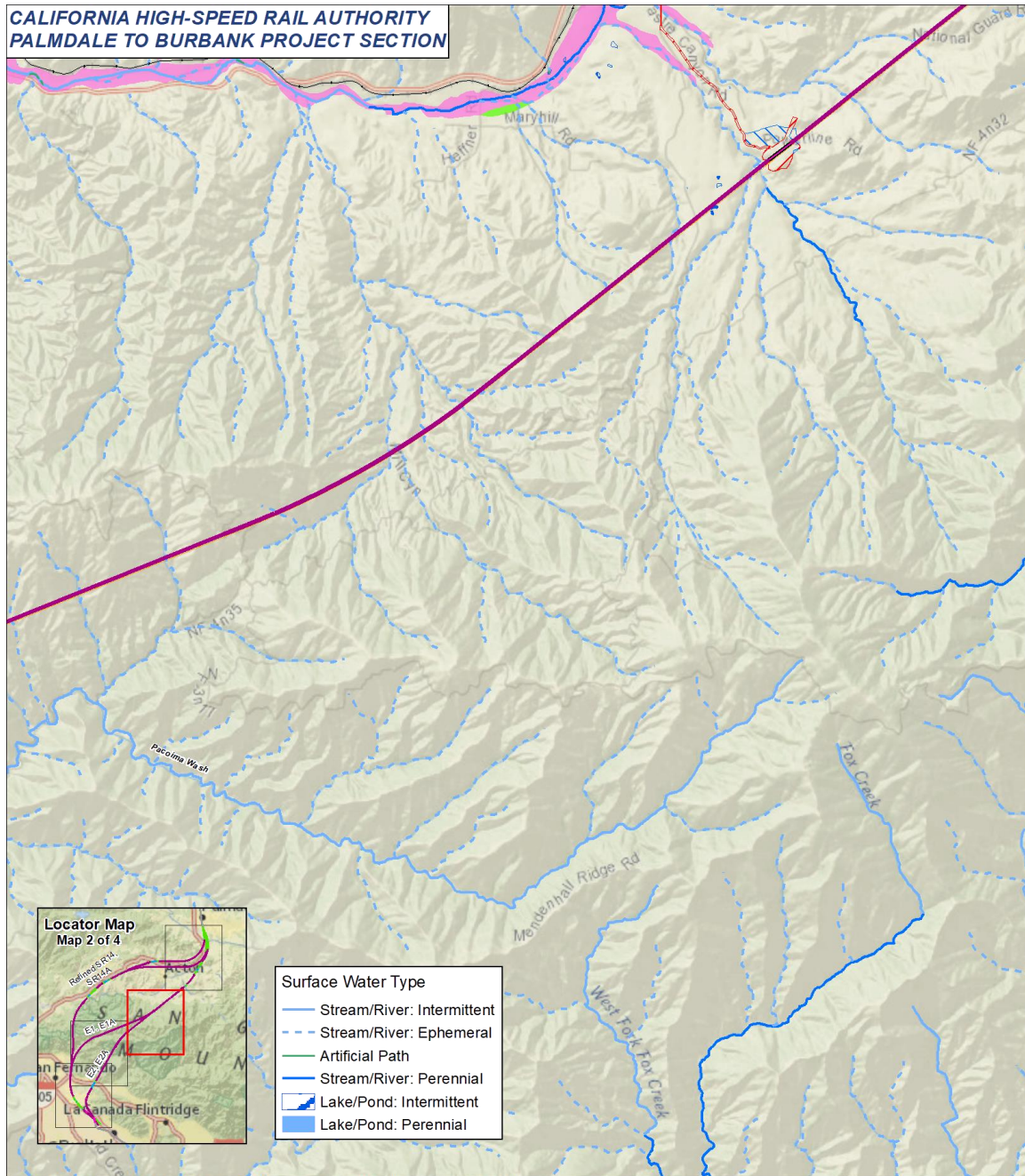


Figure 3.8-A-69 E1A Palmdale/Central Subsections Surface Waters Callout (Map 4 of 4)



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 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021

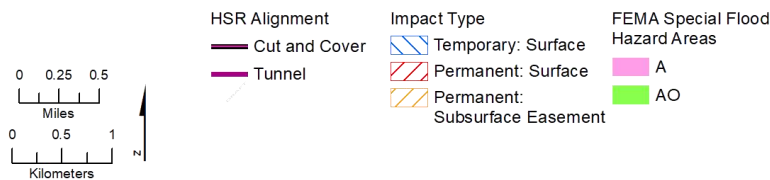
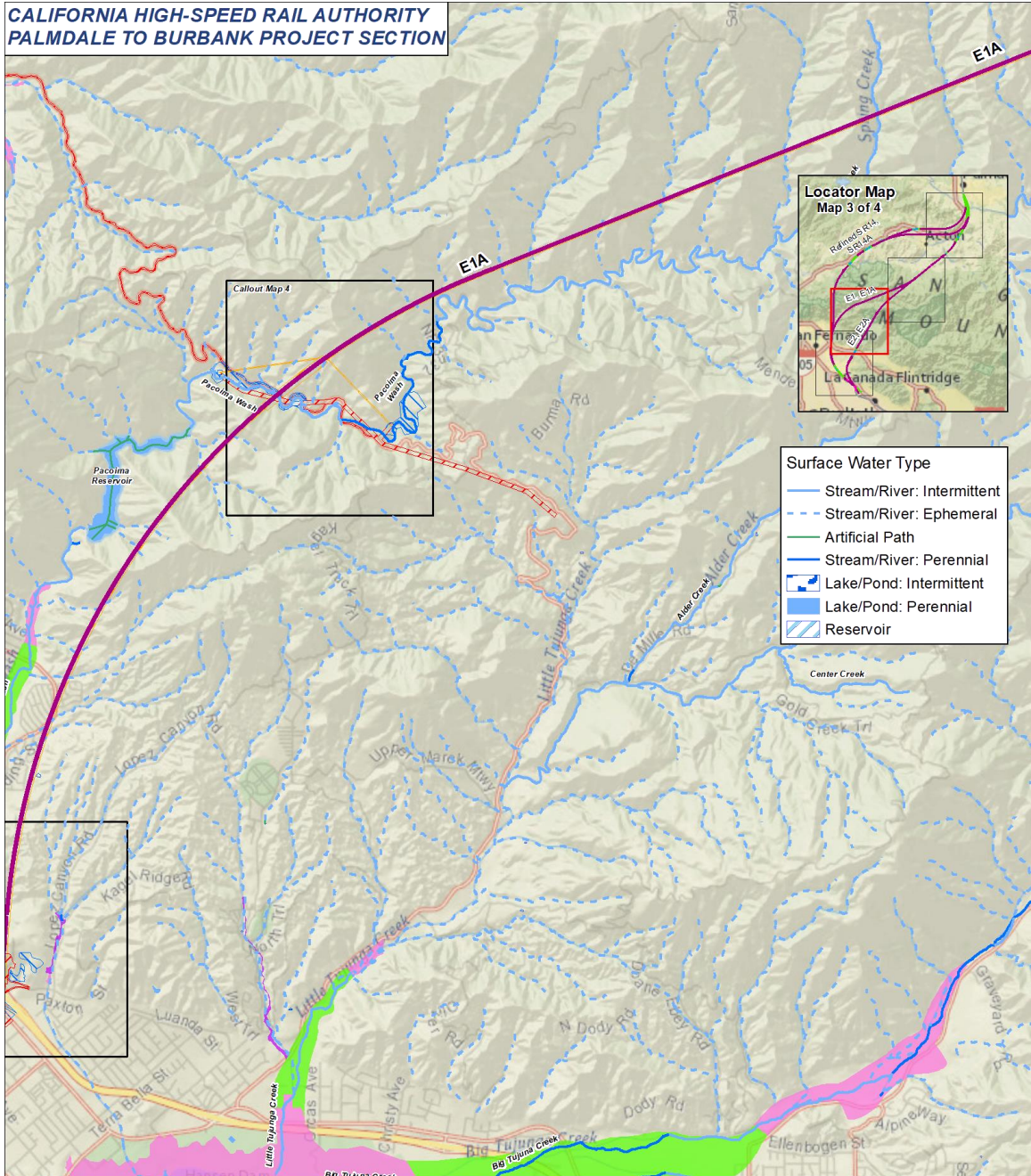


Figure 3.8-A-70 E1A Central Subsection Surface Waters Overview Map



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 April 12, 2021

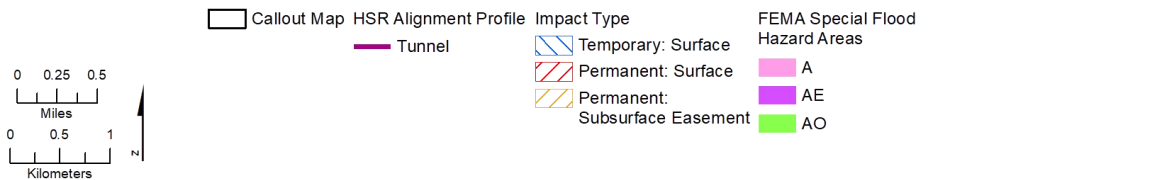


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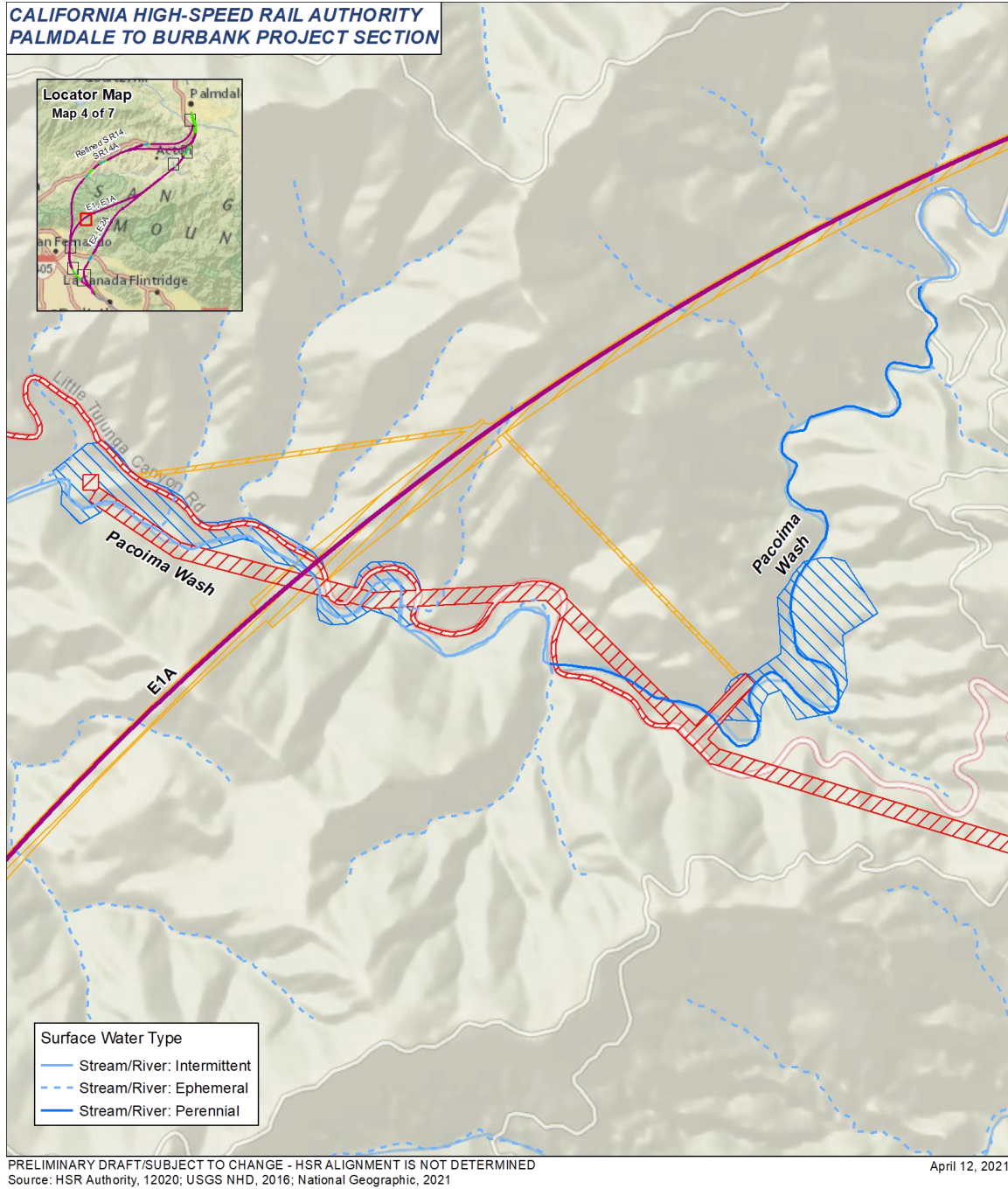


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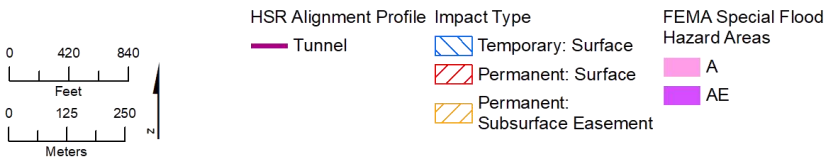
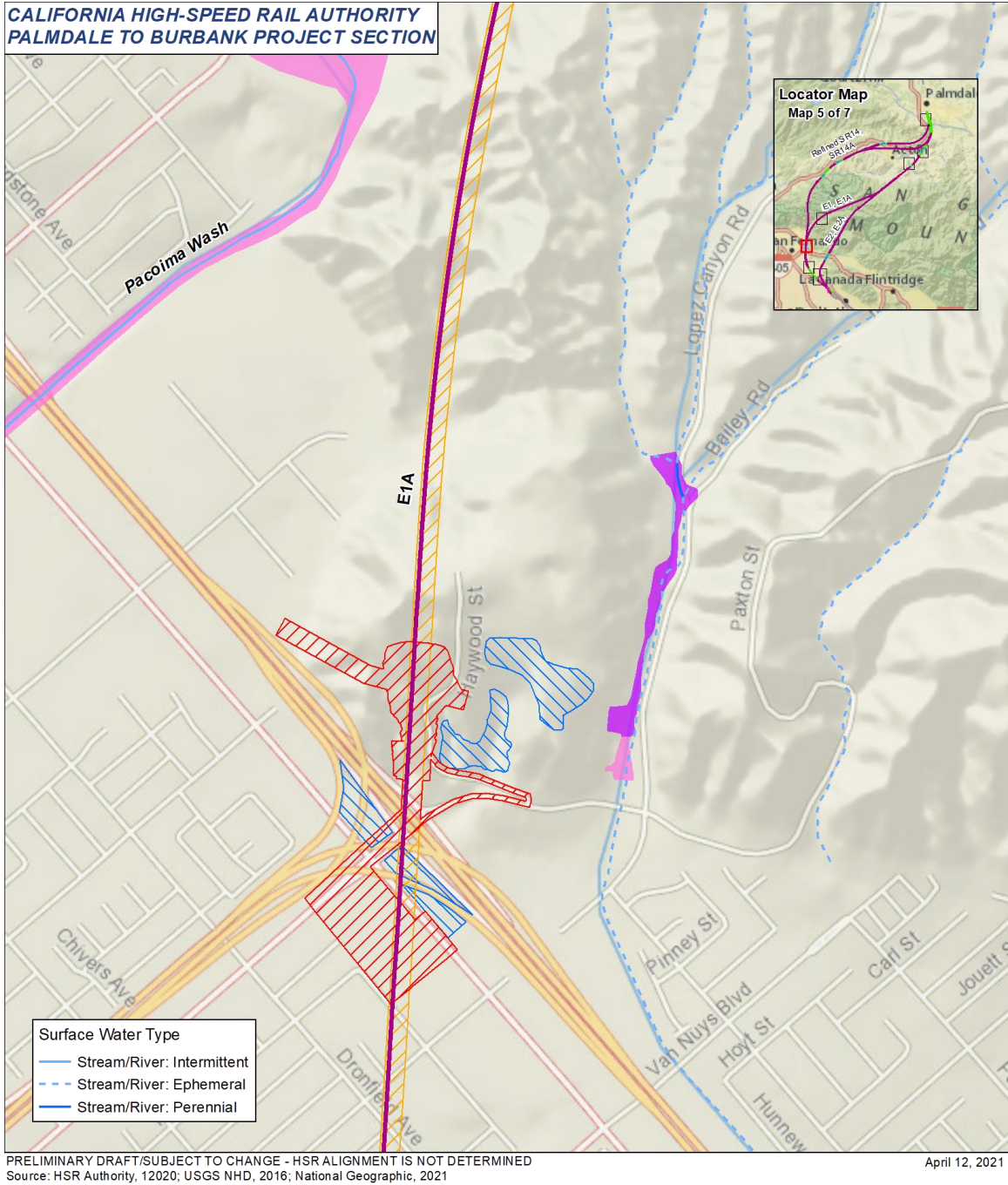


Figure 3.8-A-73 E1A Central Subsection (South) Surface Waters Callout (Map 3 of 3)

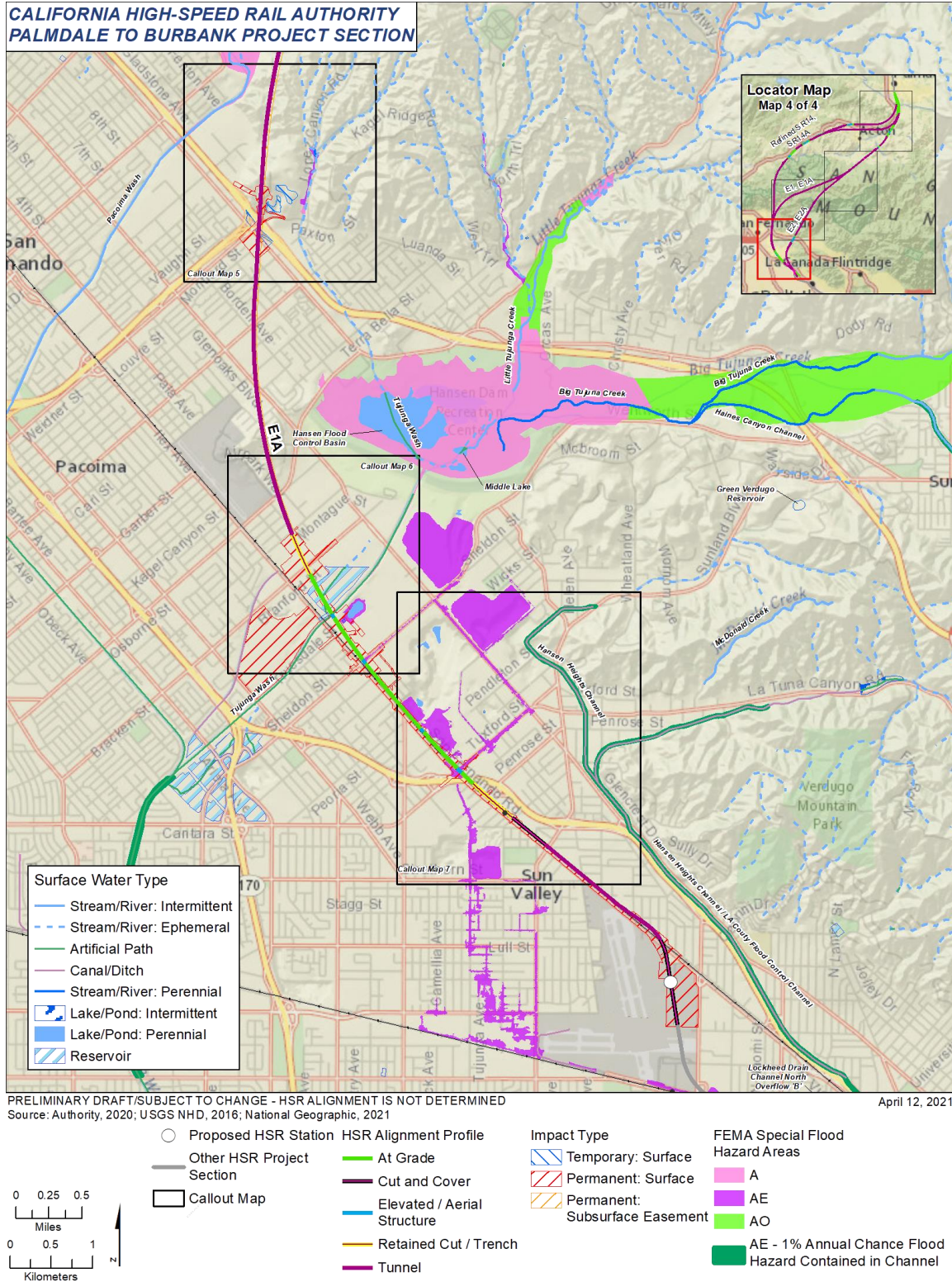


Figure 3.8-A-74 E1A Central/Burbank Subsections Surface Waters Overview (Map 1 of 3)

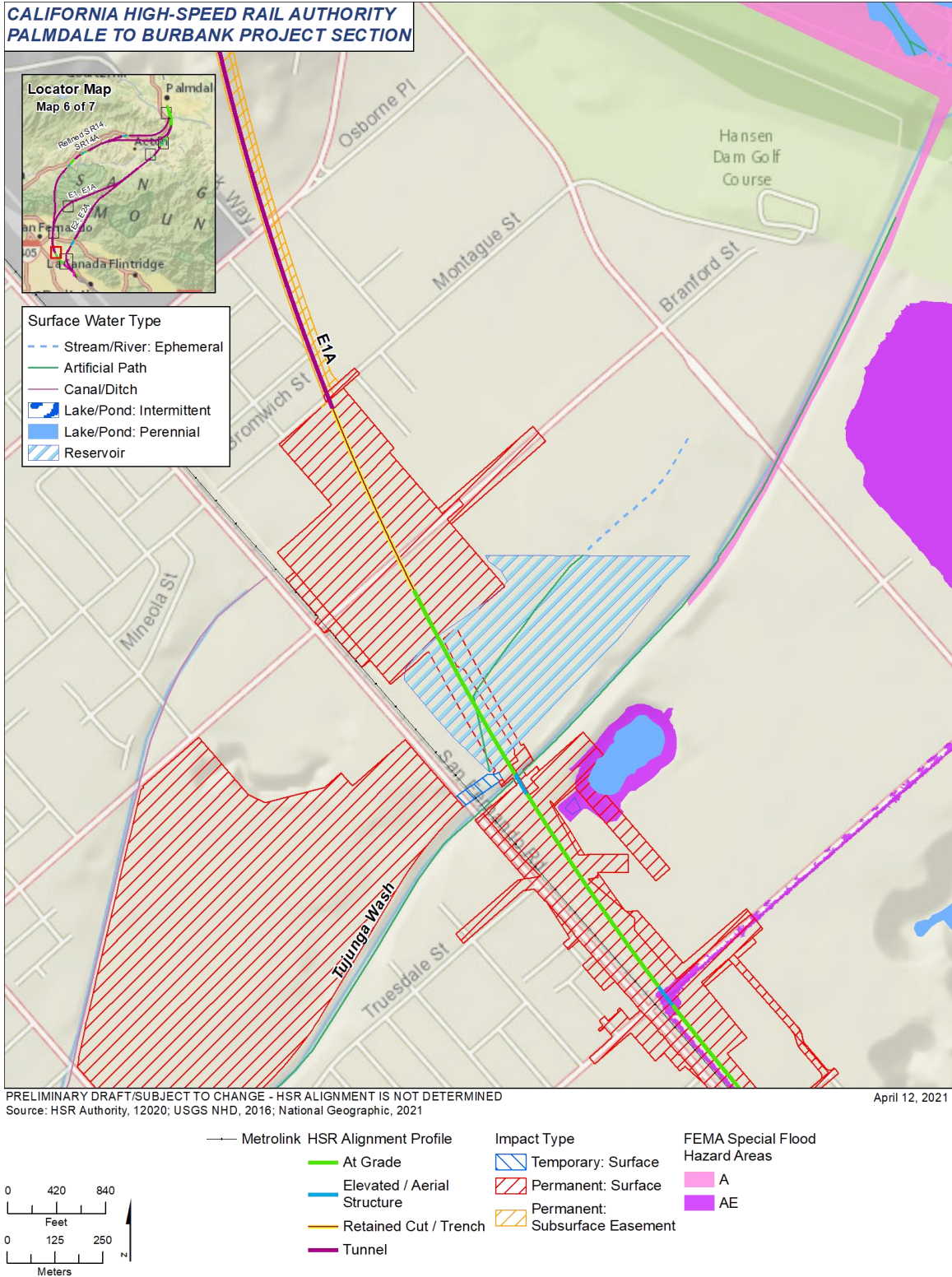
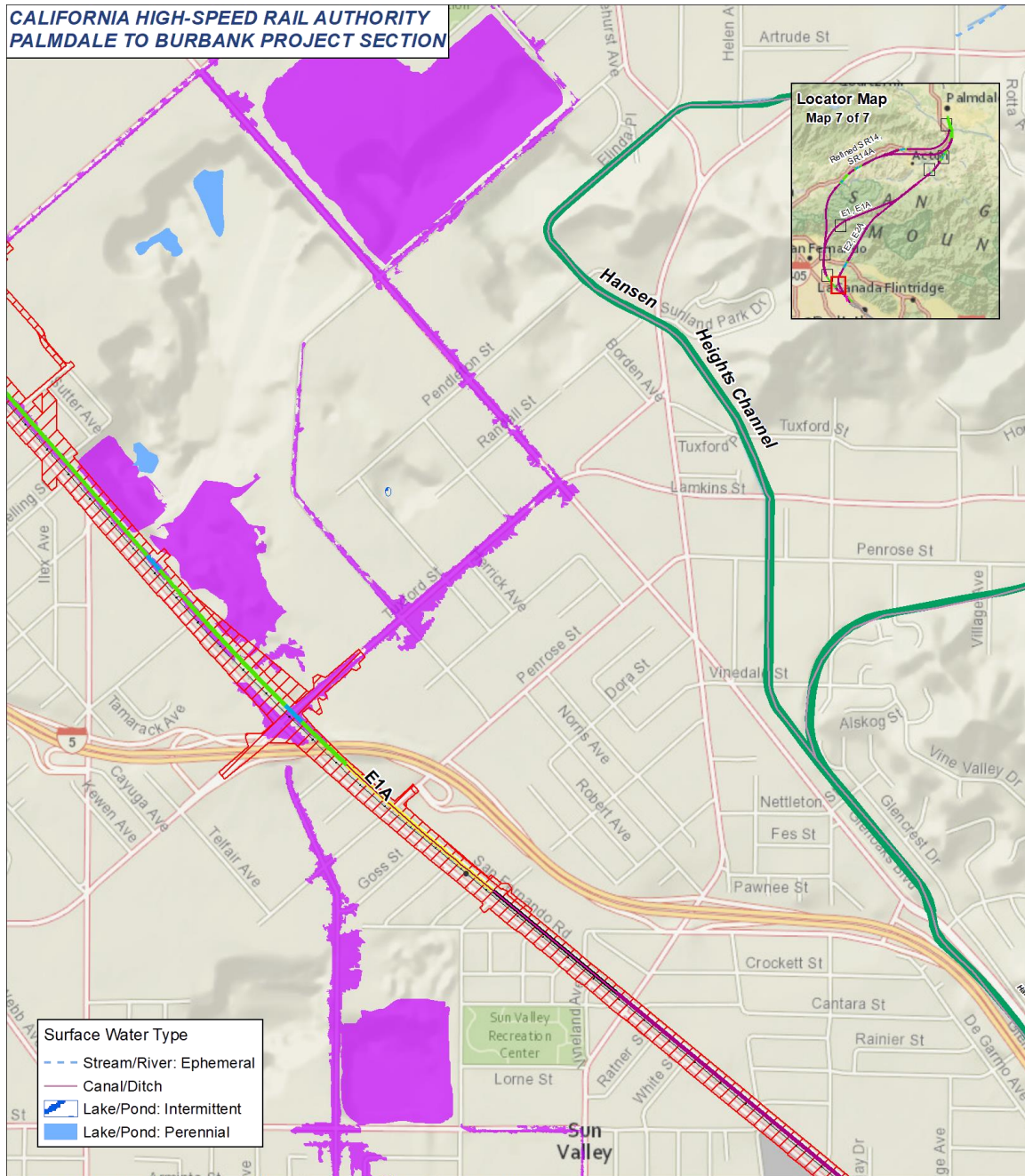


Figure 3.8-A-75 E1A Central Subsection (South) Surface Waters Callout (Map 2 of 3)



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 April 12, 2021

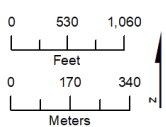
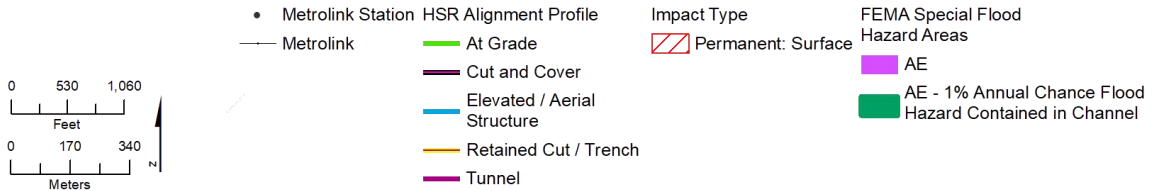


Figure 3.8-A-76 E1A Central Subsection (South) Surface Waters Callout (Map 3 of 3)

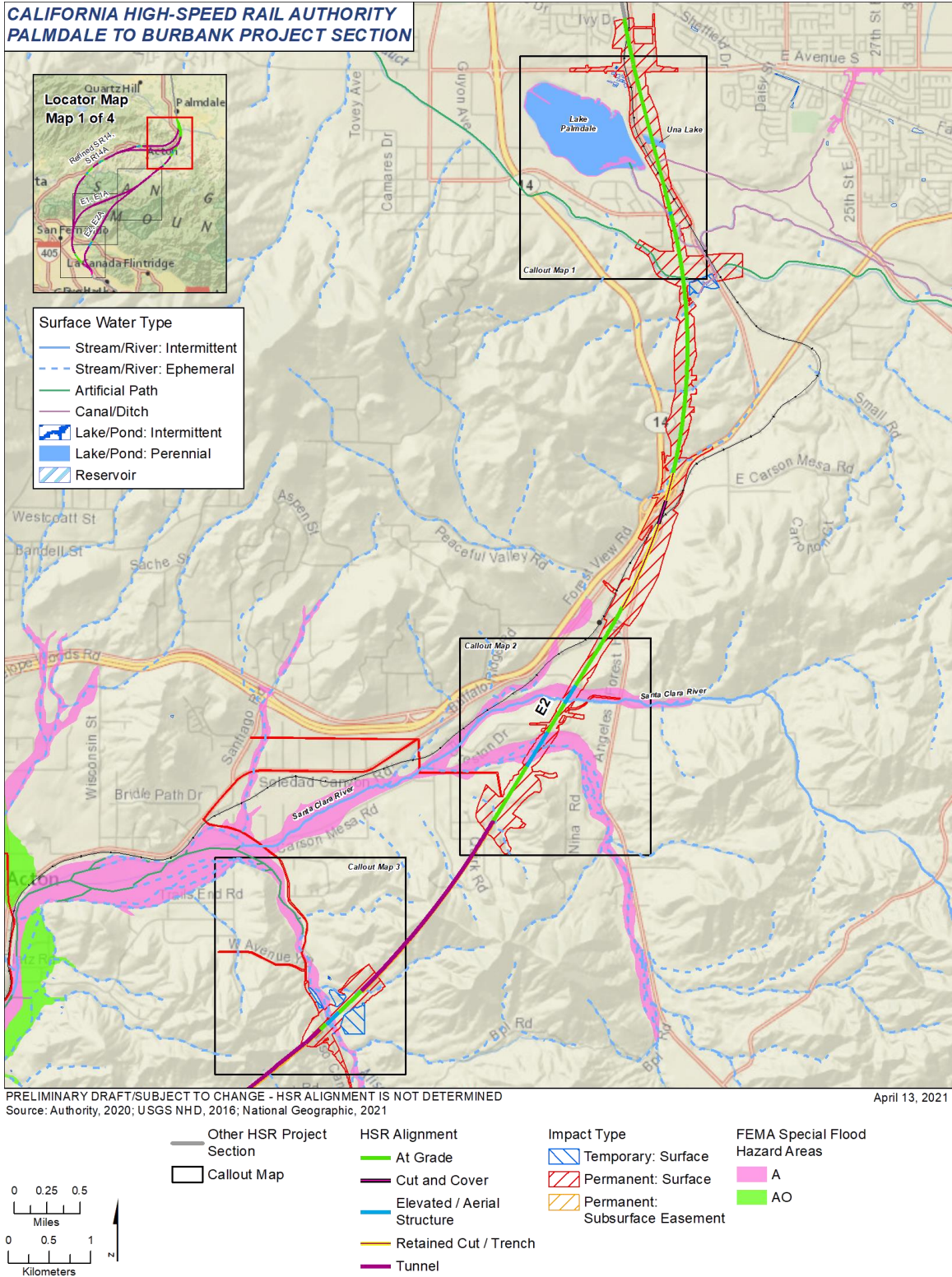
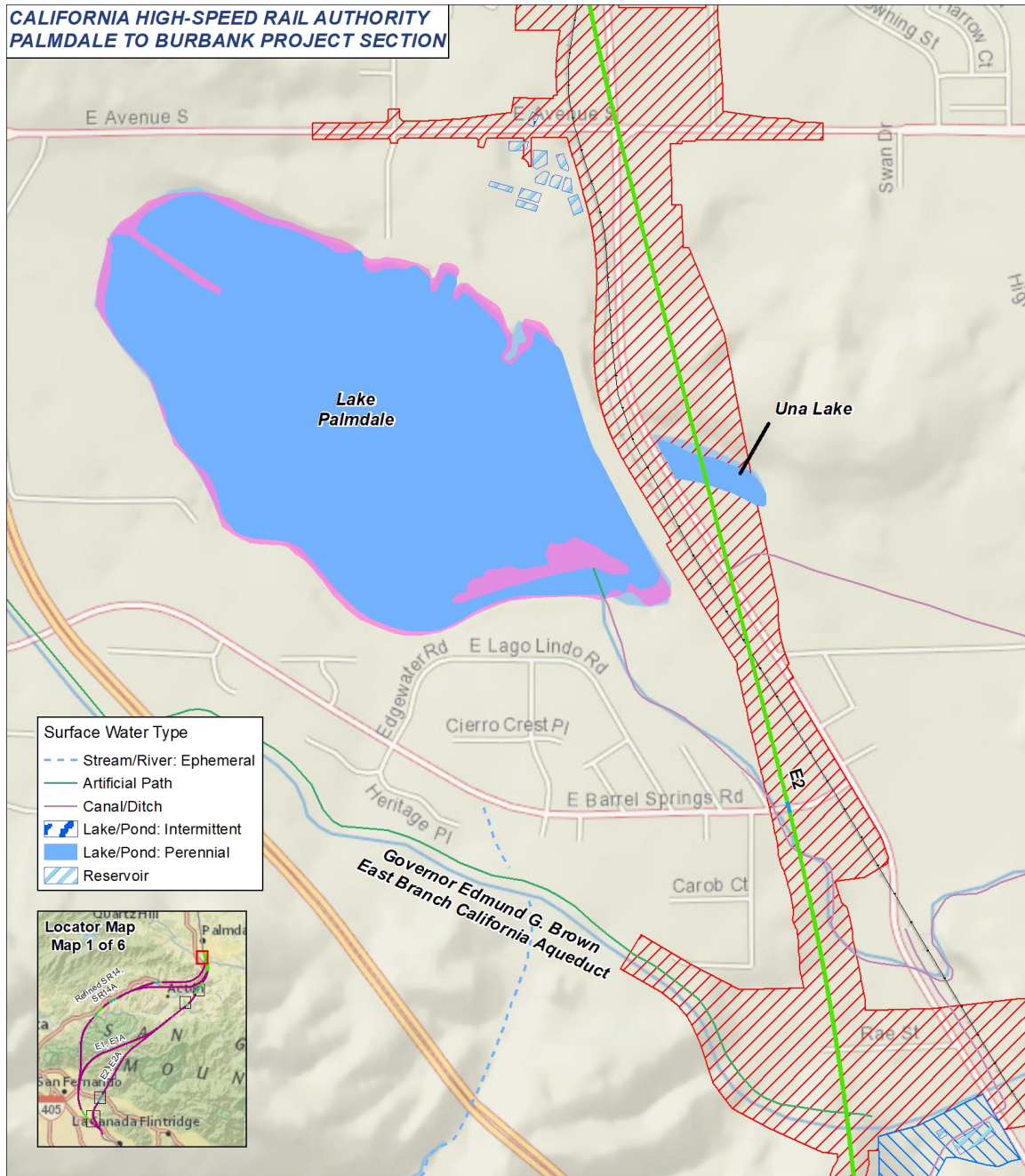


Figure 3.8-A-77 E2 Palmdale/Central Subsections Surface Waters Overview (Map 1 of 4)



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021
 April 13, 2021

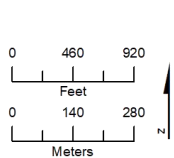


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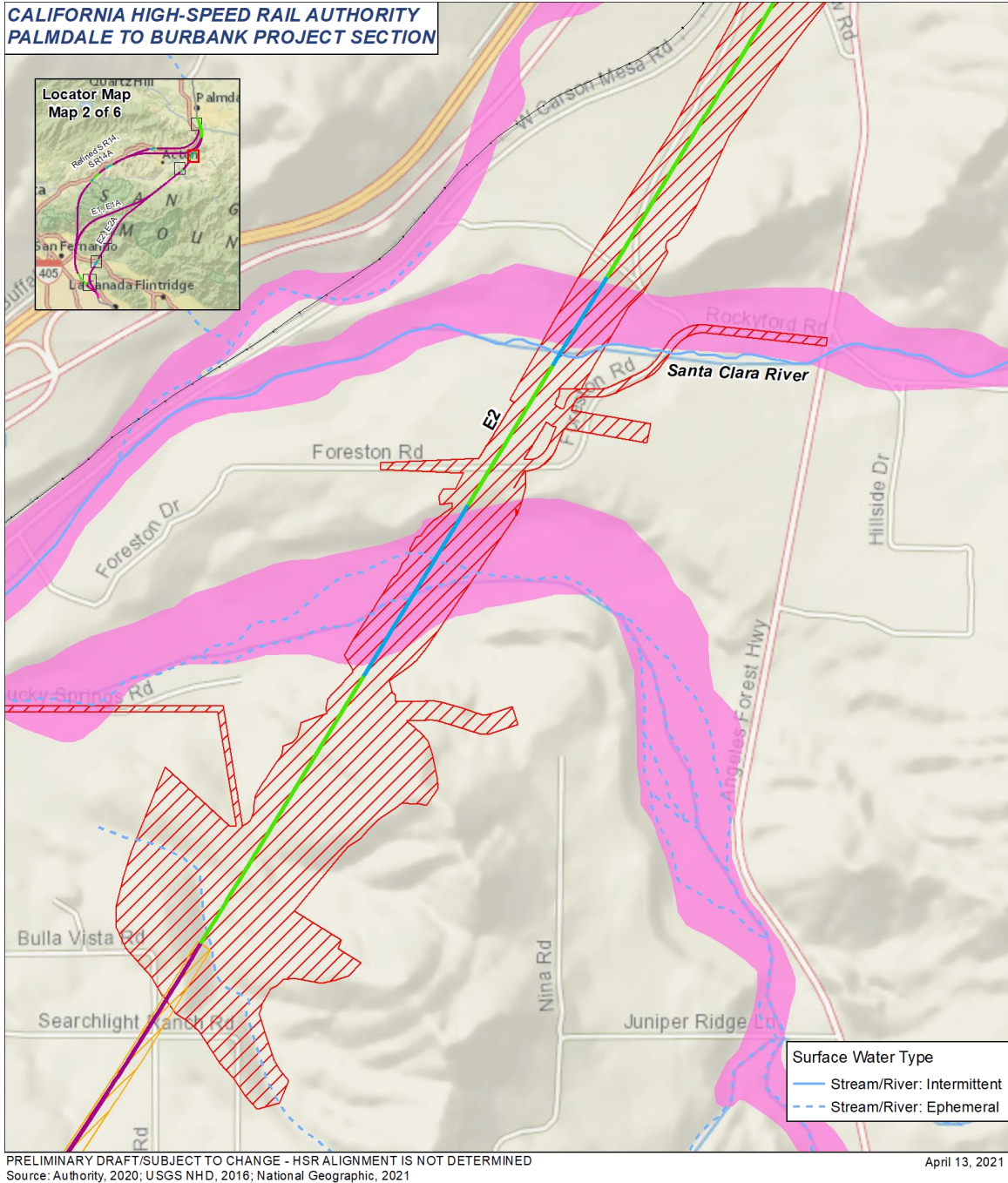


Figure 3.8-A-79 E2 Palmdale/Central Subsections Surface Waters Callout (Map 3 of 4)

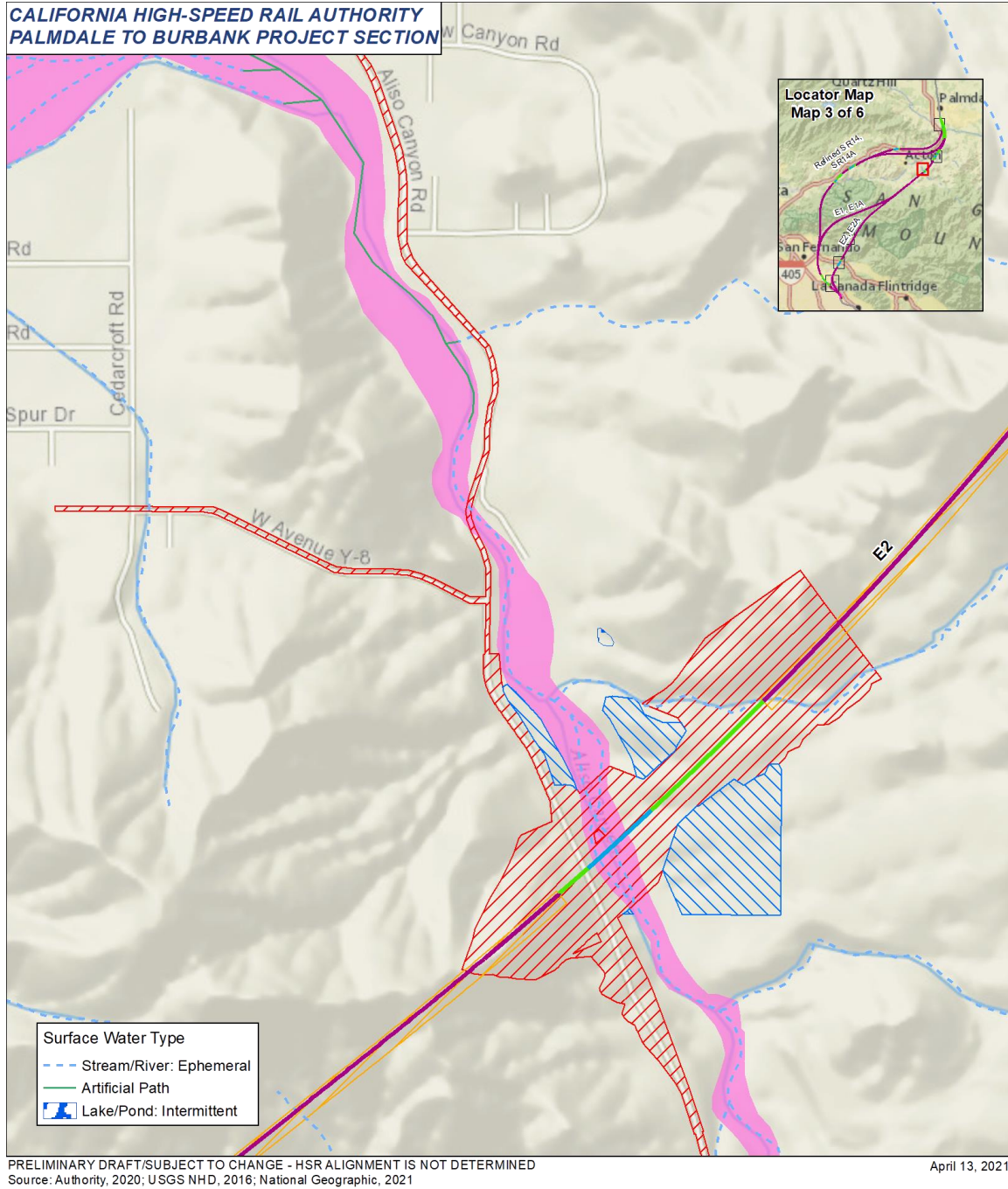


Figure 3.8-A-80 E2 Palmdale/Central Subsections Surface Waters Callout (Map 4 of 4)

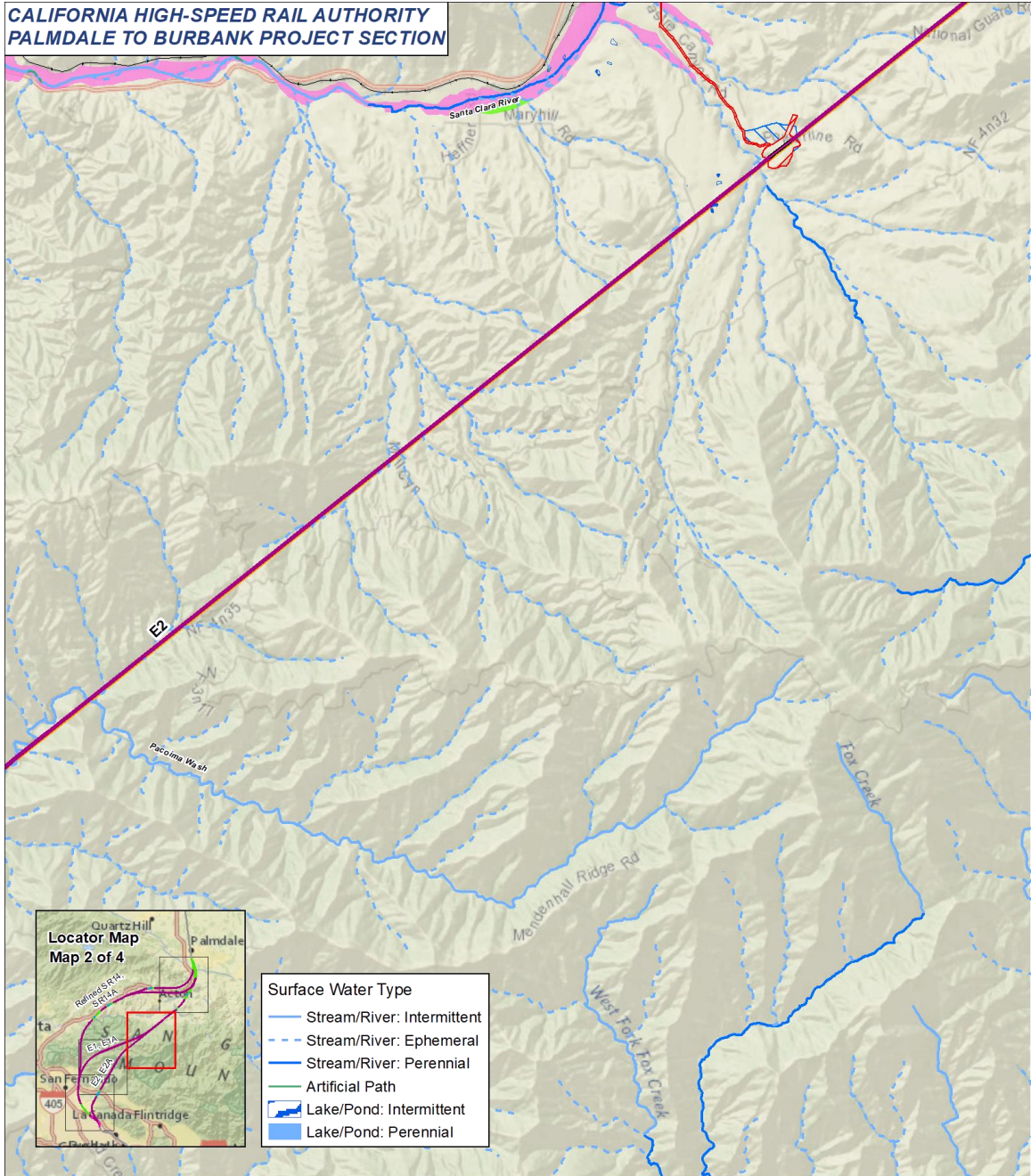
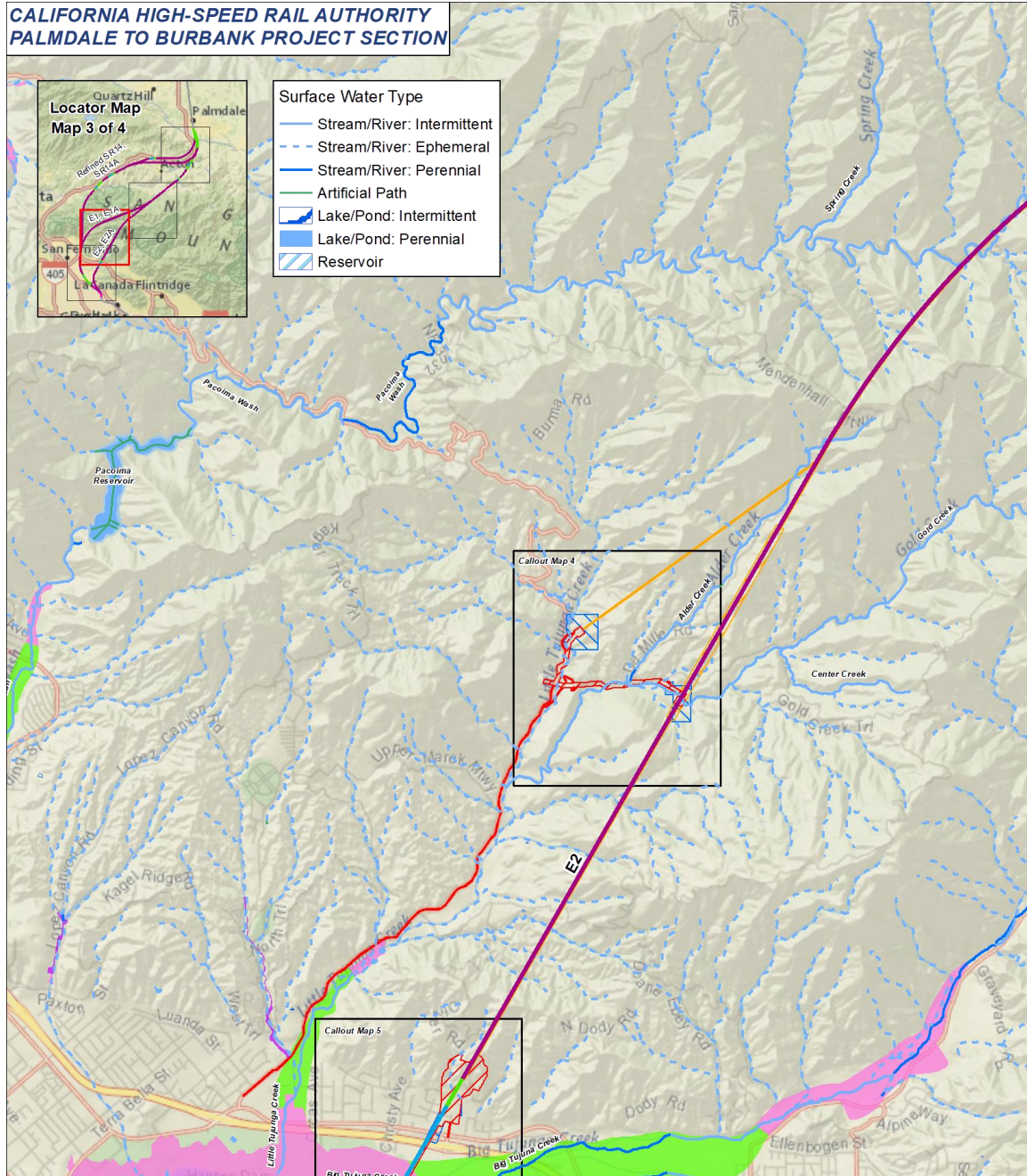


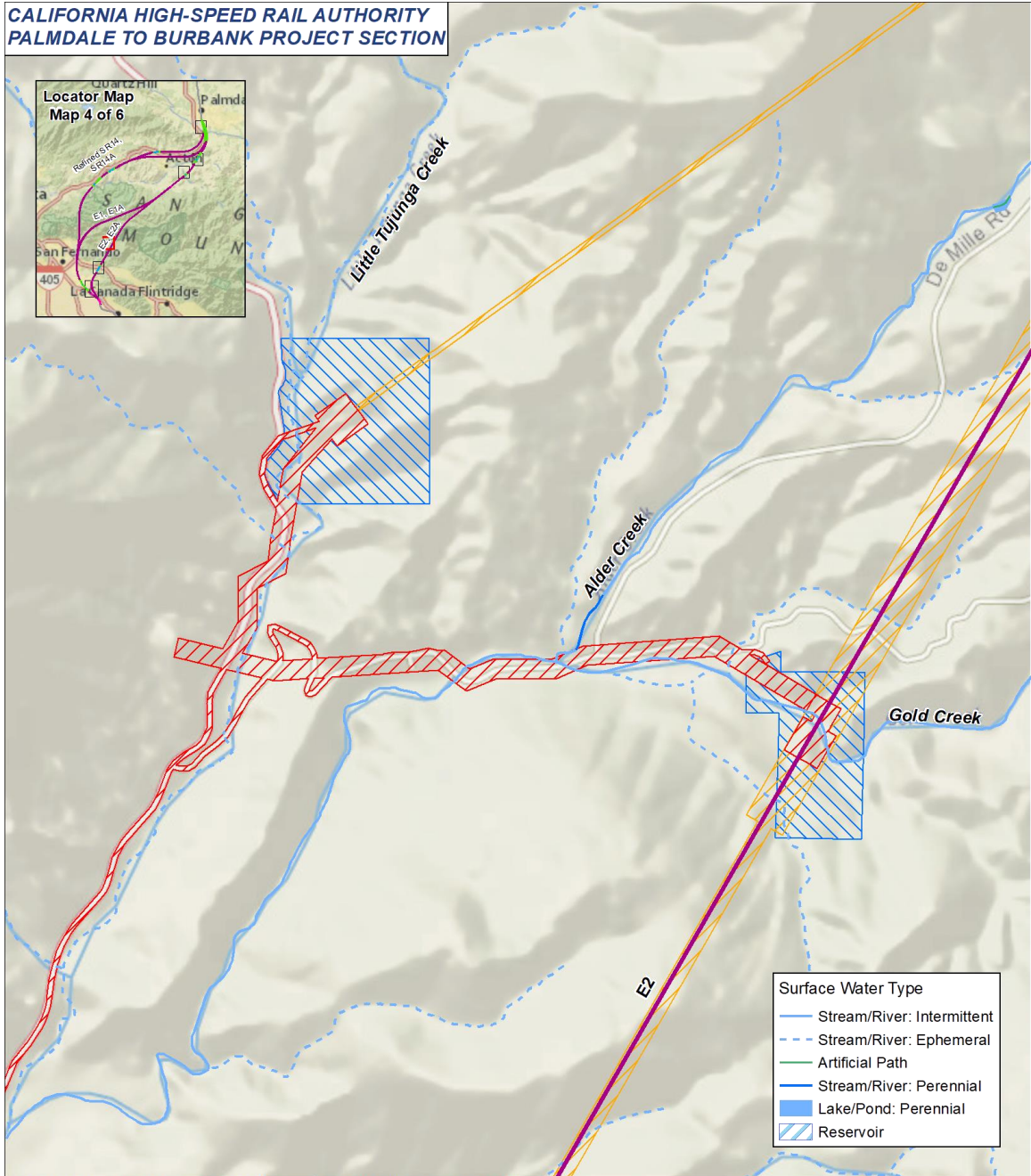
Figure 3.8-A-81 E2 Central Subsection Surface Waters Overview (Map 1 of 1)



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021
 April 13, 2021

	Callout Map	HSR Alignment At Grade Elevated / Aerial Structure Tunnel	Impact Type Temporary: Surface Permanent: Surface Permanent: Subsurface Easement	FEMA Special Flood Hazard Areas A AE AO
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Figure 3.8-A-82 E2 Central Subsection (South) Surface Waters Overview (Map 1 of 3)



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021

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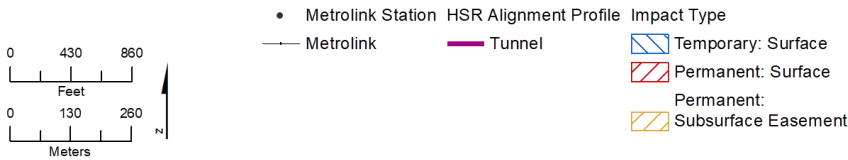


Figure 3.8-A-83 E2 Central Subsection (South) Surface Waters Callout (Map 2 of 3)

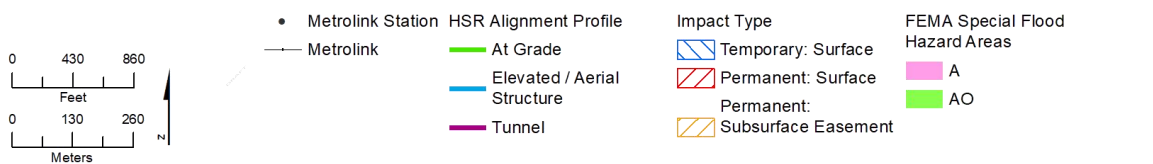
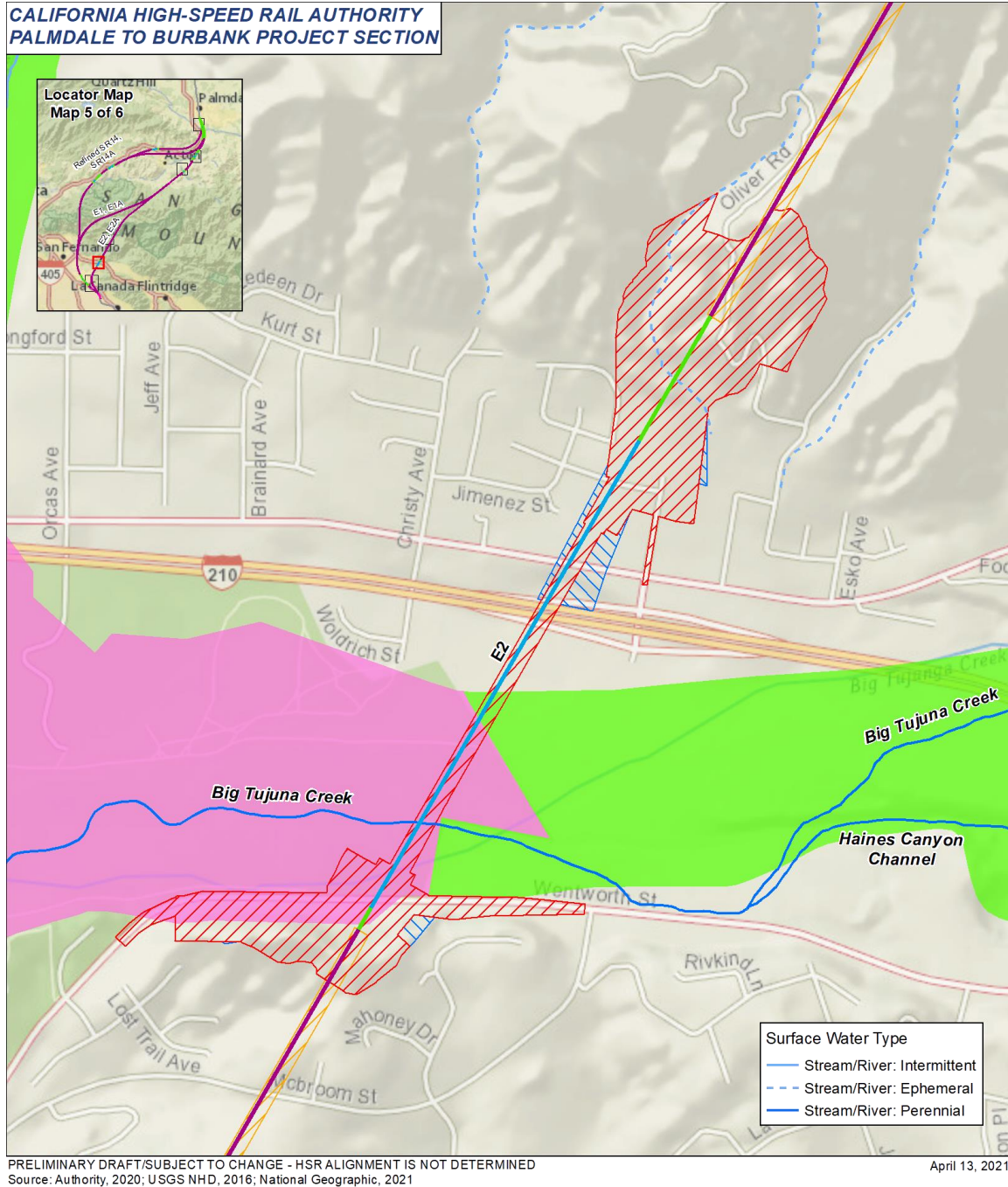


Figure 3.8-A-84 E2 Central Subsection (South) Surface Waters Callout (Map 3 of 3)

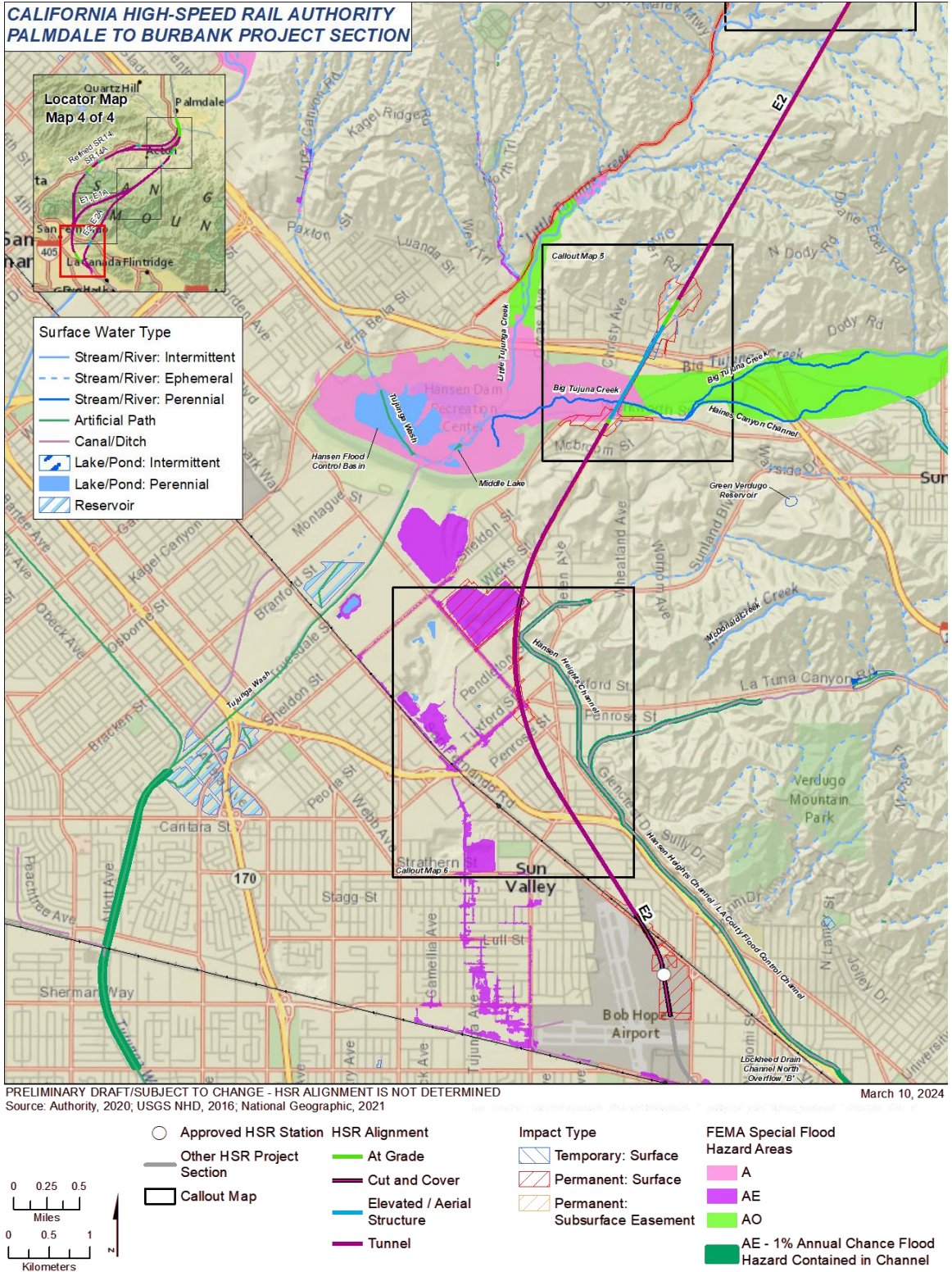
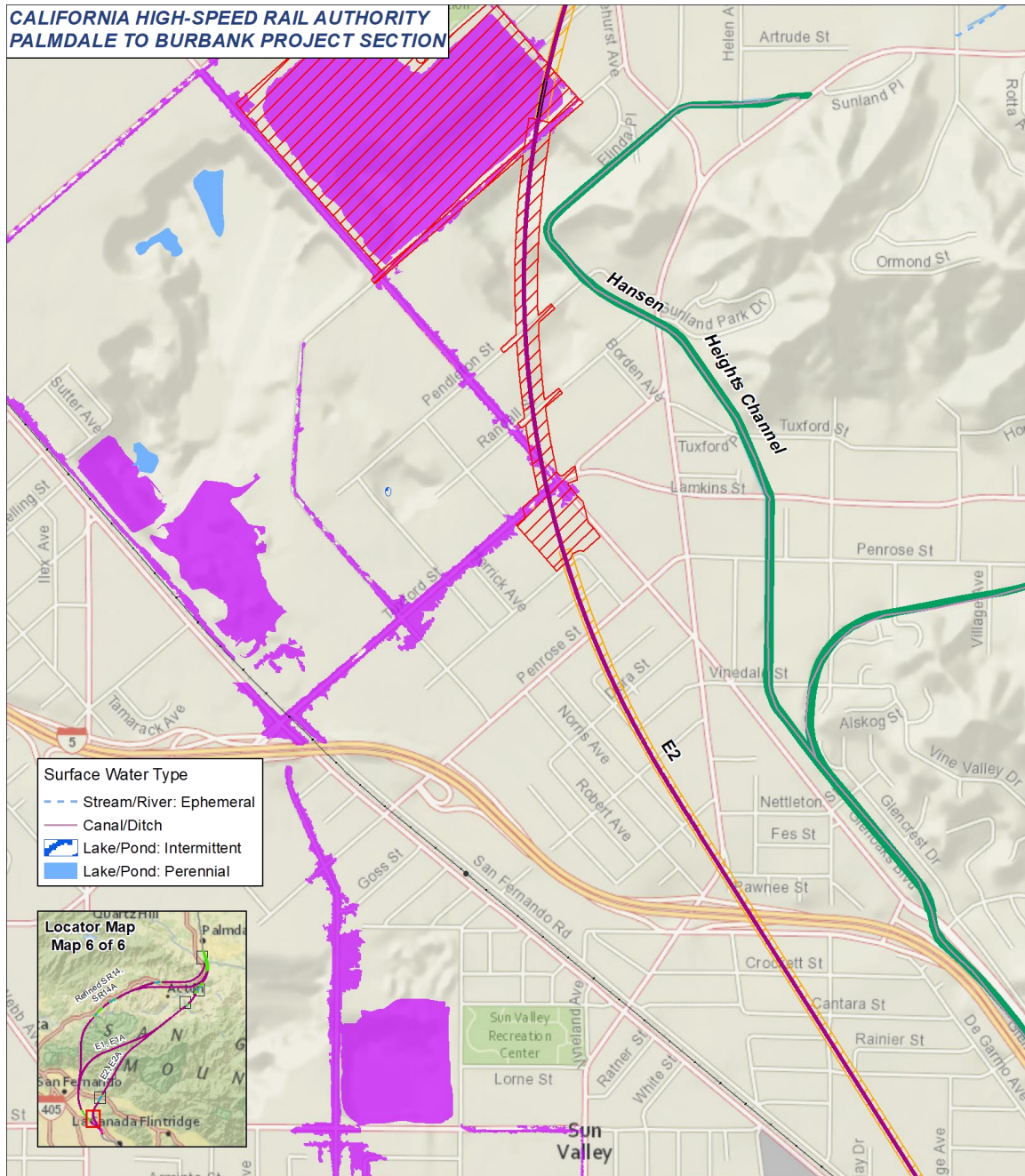


Figure 3.8-A-85 E2 Central/Burbank Subsections Surface Waters Overview (Map 1 of 2)



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
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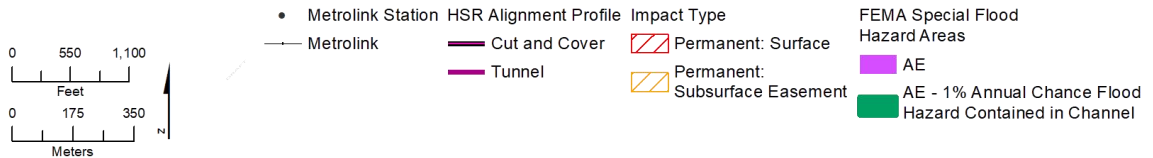
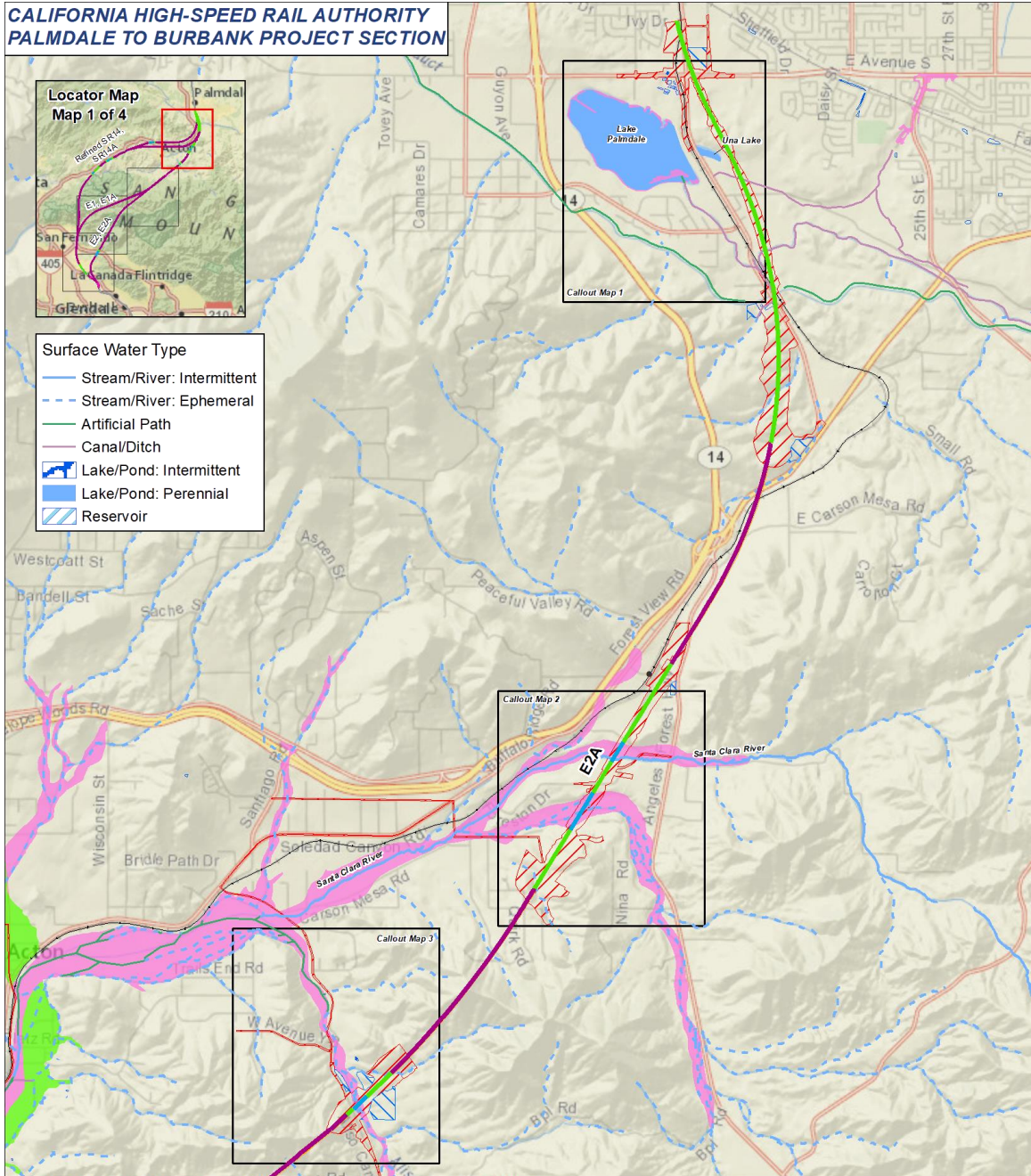


Figure 3.8-A-86 E2 Central/Burbank Subsections Surface Waters Overview (Map 2 of 2)



April 27, 2021

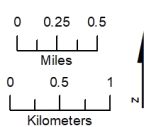
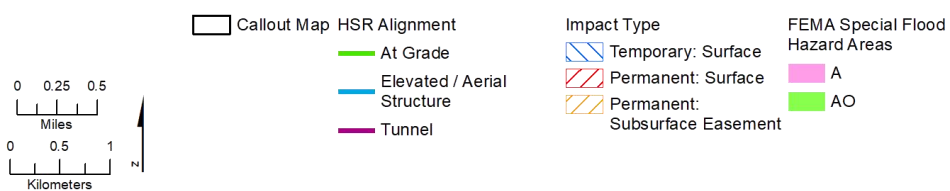
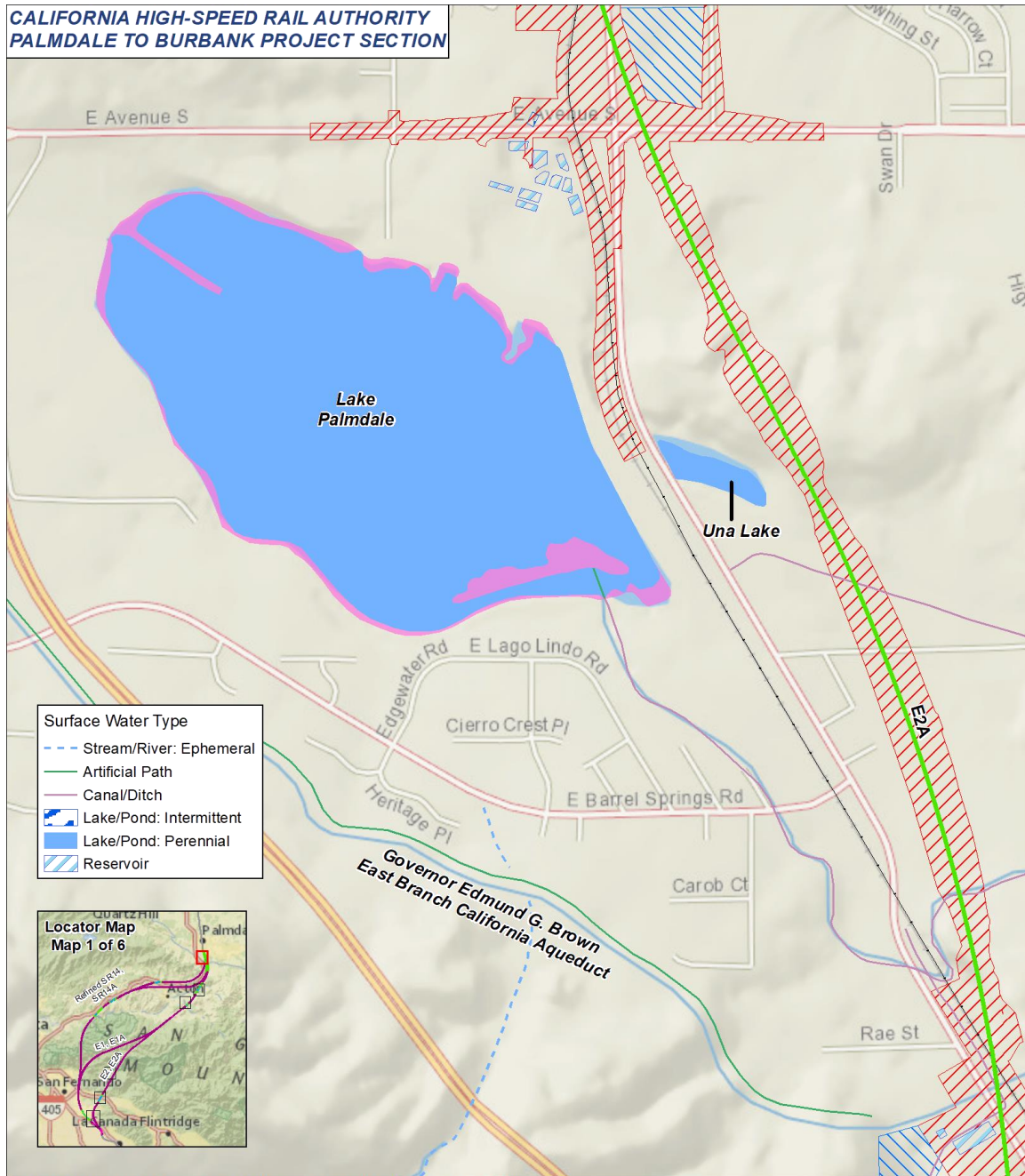


Figure 3.8-A-87 E2A Palmdale/Central Subsections Surface Waters Overview (Map 1 of 4)



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
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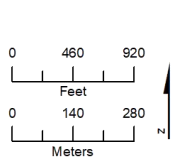
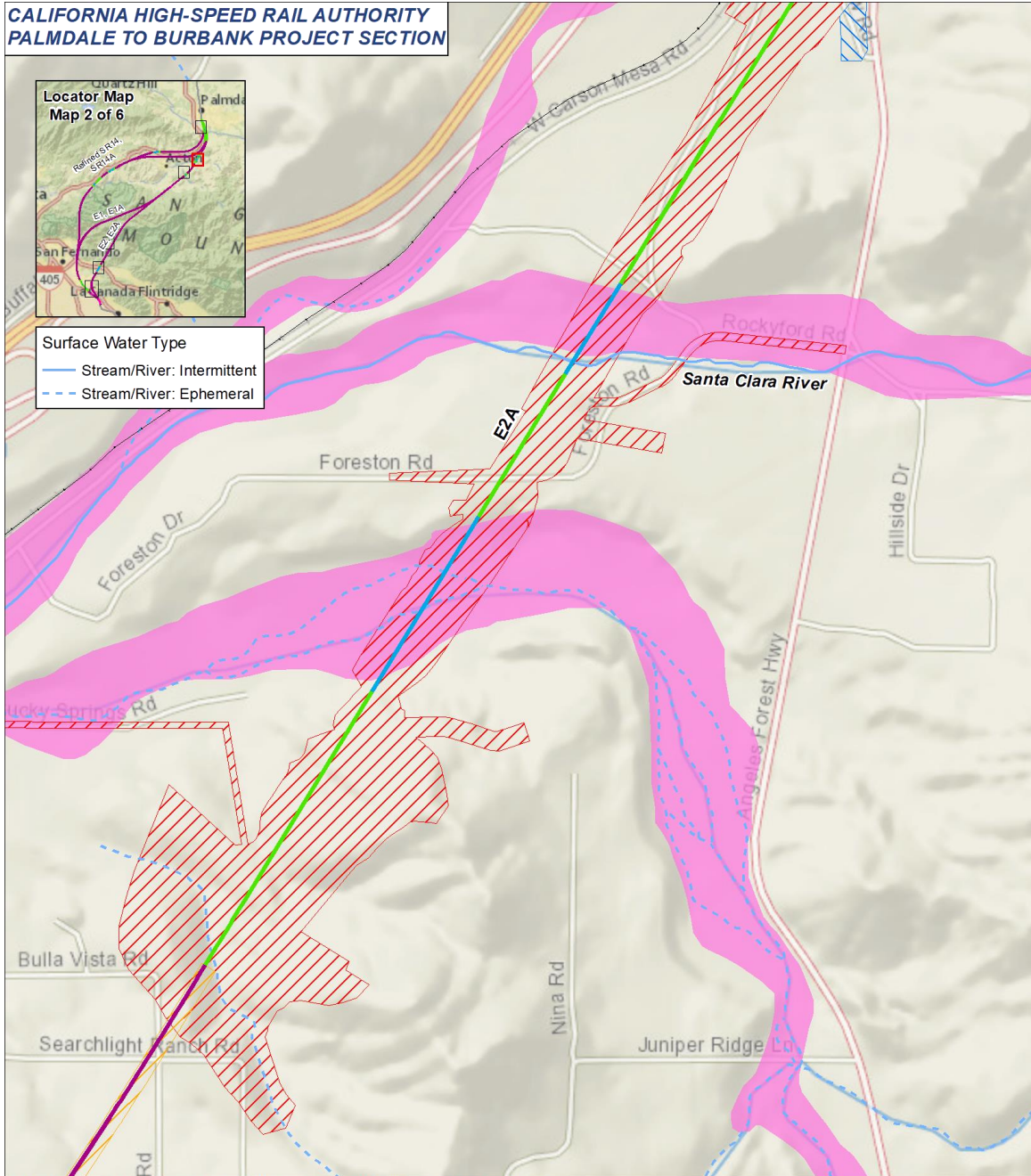


Figure 3.8-A-88 E2A Palmdale/Central Subsections Surface Waters Callout (Map 2 of 4)



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 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021

April 13, 2021

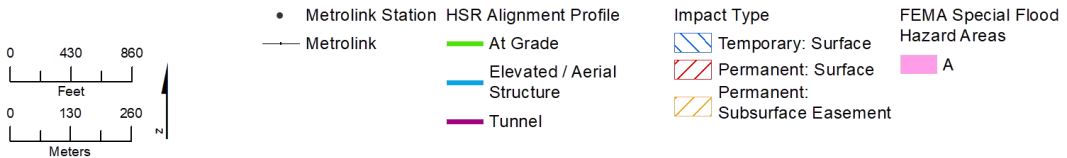
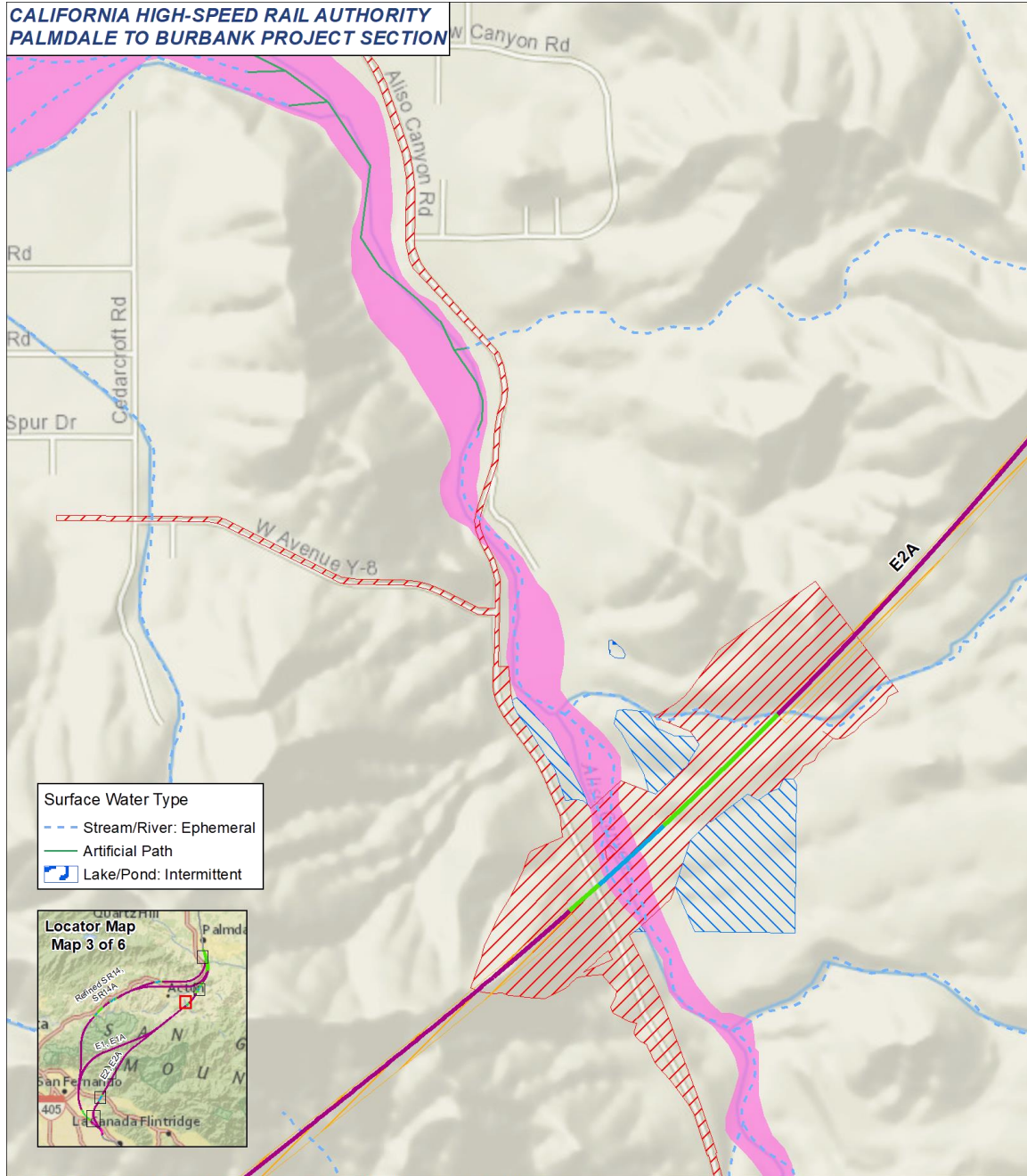


Figure 3.8-A-89 E2A Palmdale/Central Subsections Surface Waters Callout (Map 3 of 4)



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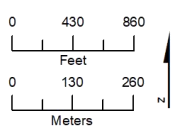
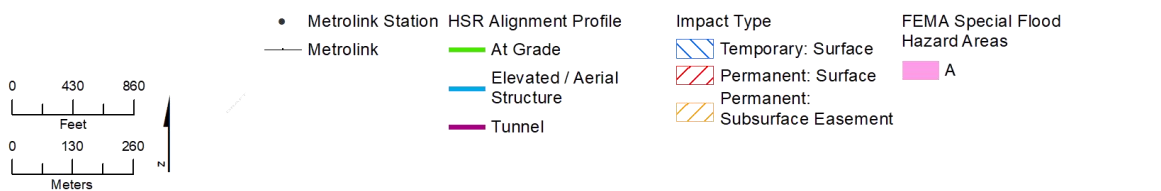


Figure 3.8-A-90 E2A Palmdale/Central Subsections Surface Waters Callout (Map 4 of 4)

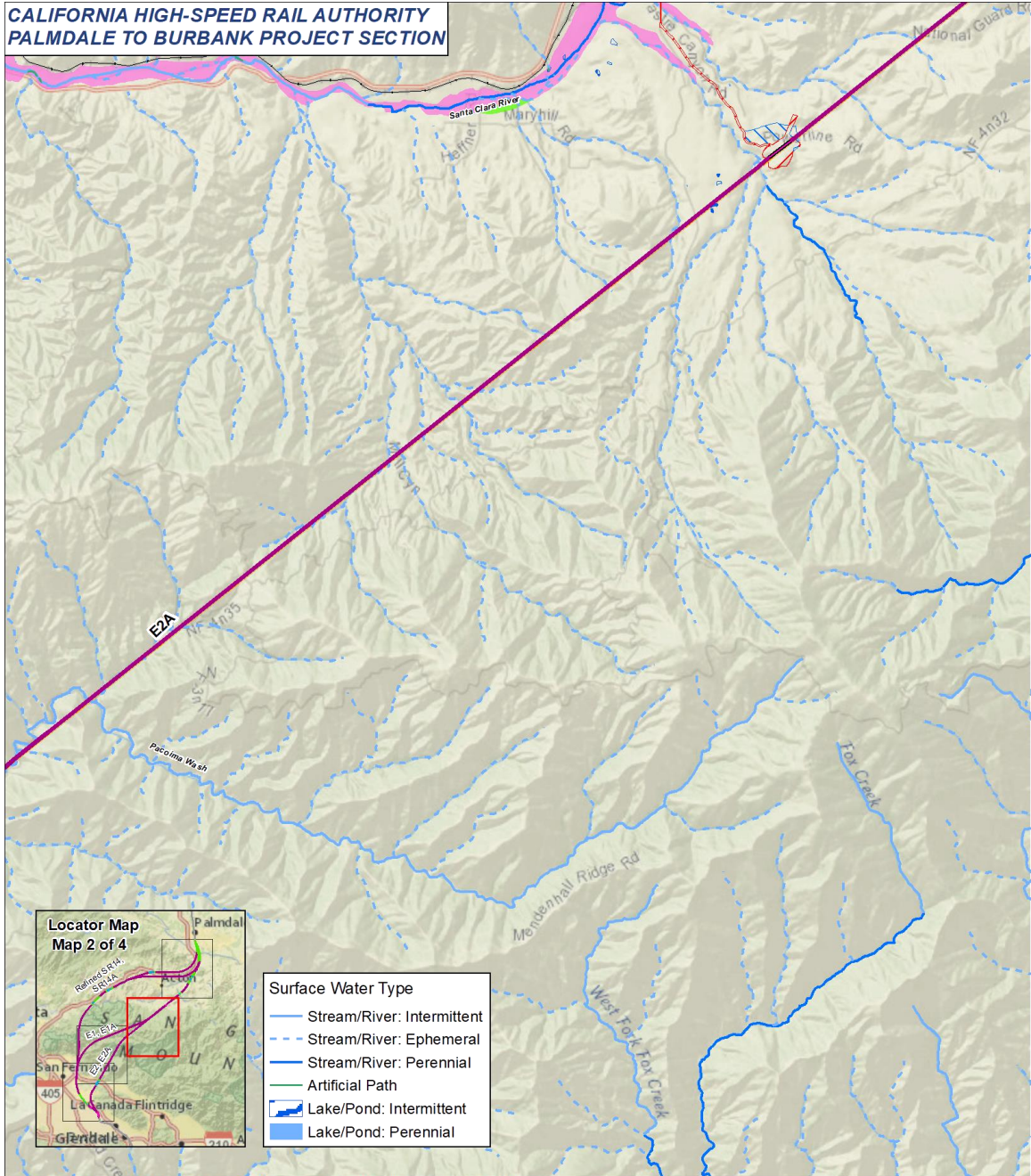
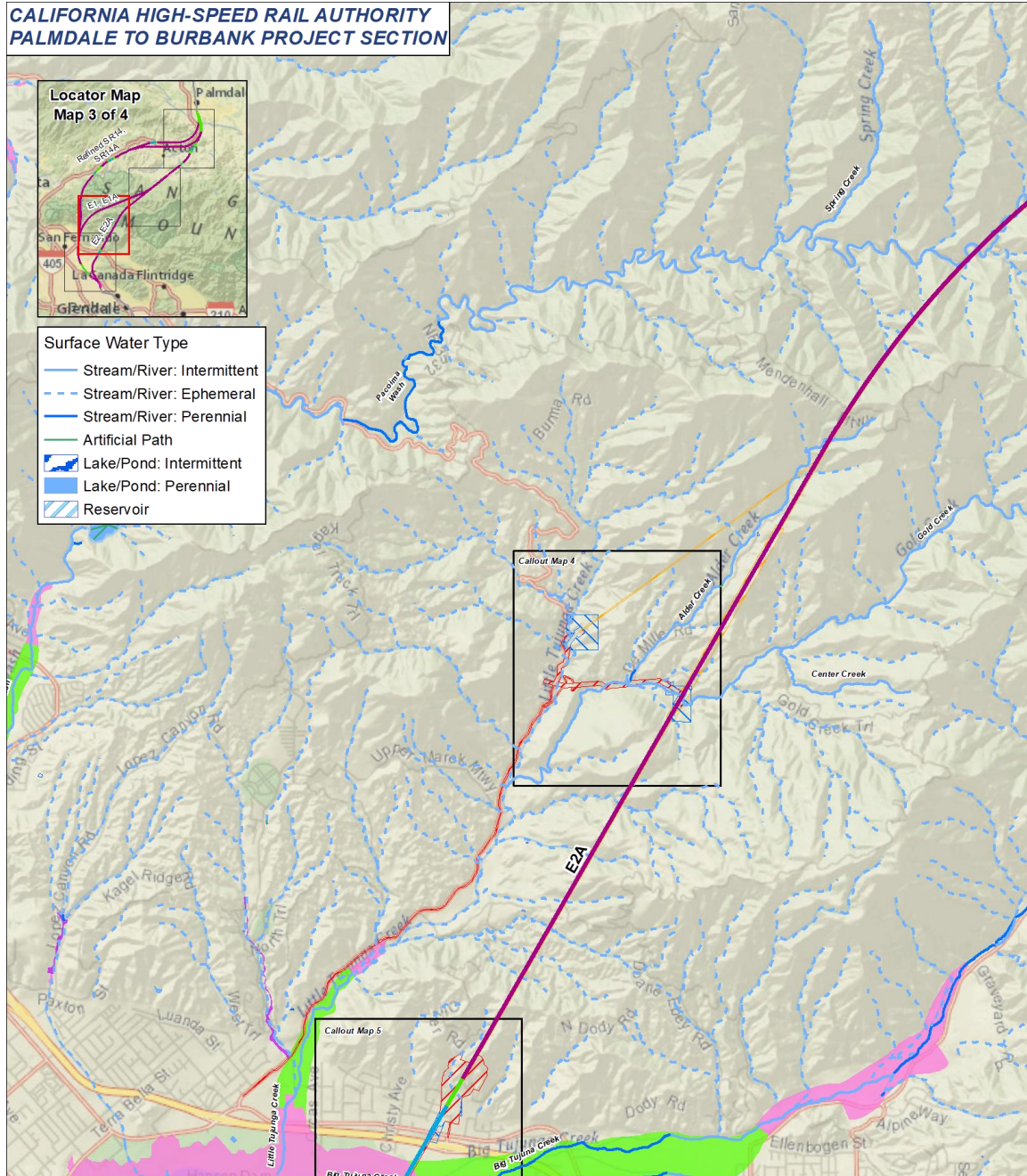


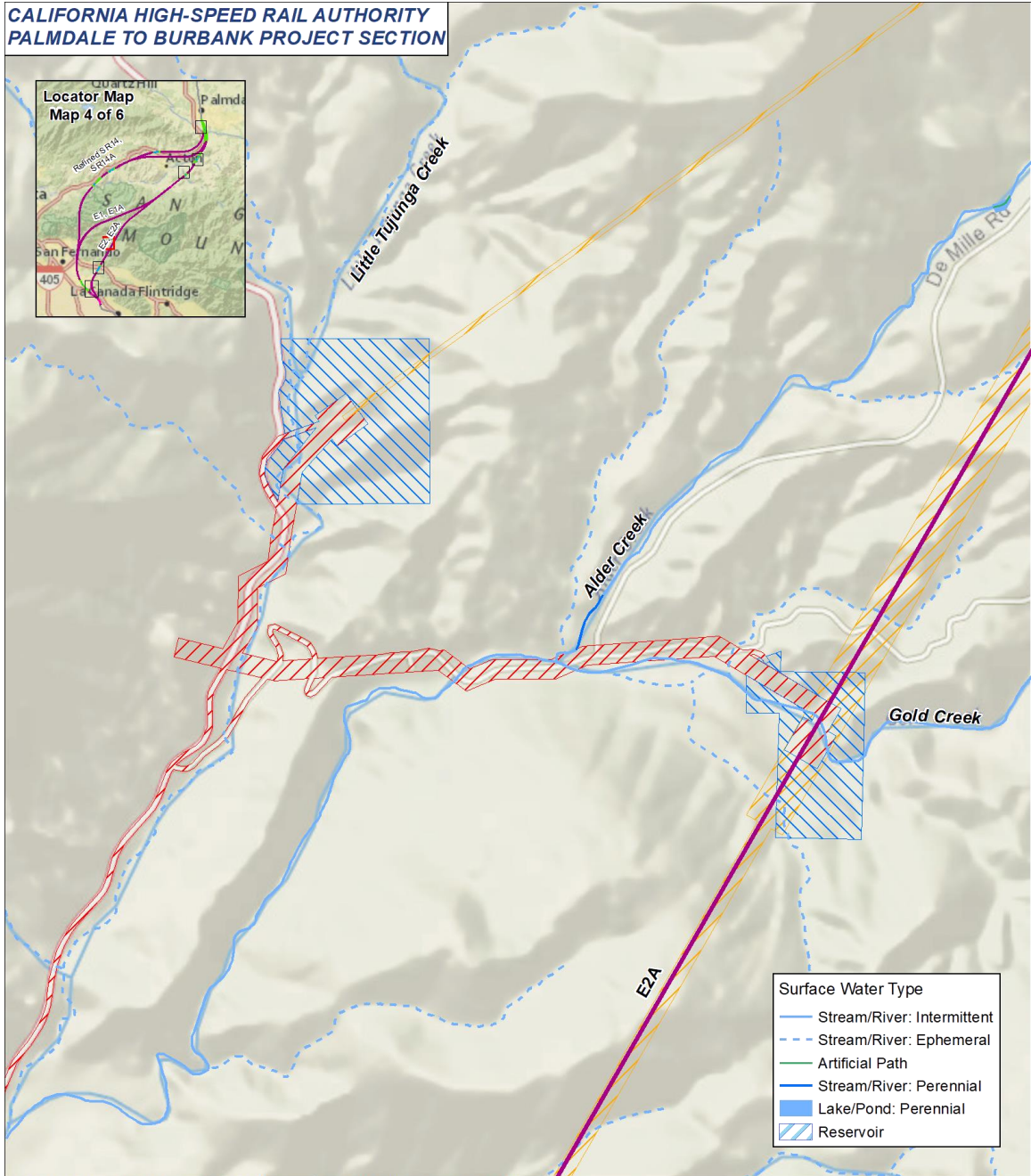
Figure 3.8-A-91 E2A Central Subsection Surface Waters Overview (Map 1 of 1)



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021
 April 27, 2021

	Callout Map	HSR Alignment	Temporary: Surface	FEMA Special Flood Hazard Areas
	At Grade	Permanent: Surface	Permanent: Surface	A
Elevated / Aerial Structure	Permanent: Subsurface Easement	Tunnel	AE	AO

Figure 3.8-A-92 E2A Central Subsection (South) Surface Waters Overview (Map 1 of 3)

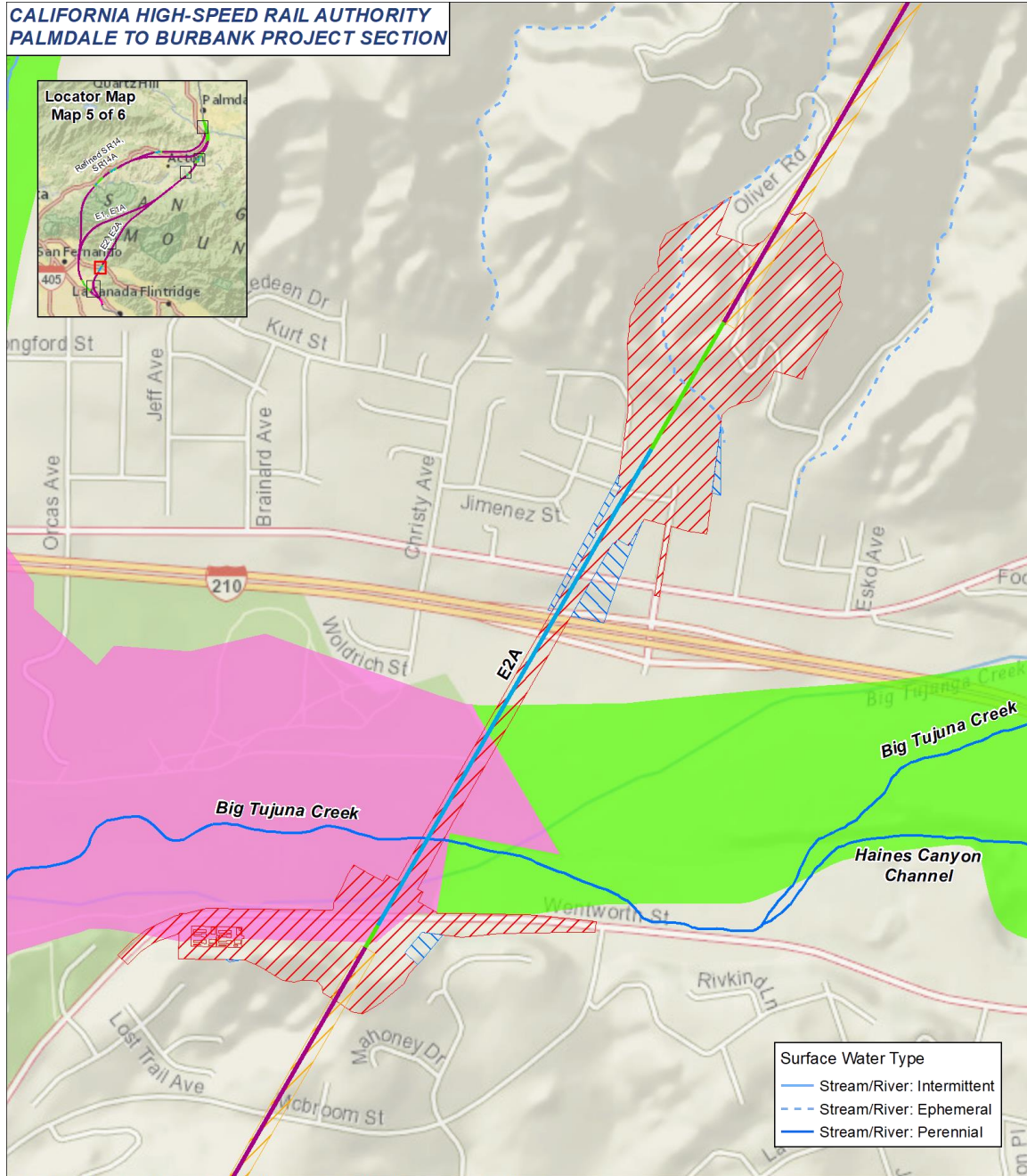


PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021

April 13, 2021



Figure 3.8-A-93 E2A Central Subsection (South) Surface Waters Callout (Map 2 of 3)



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021
 April 13, 2021

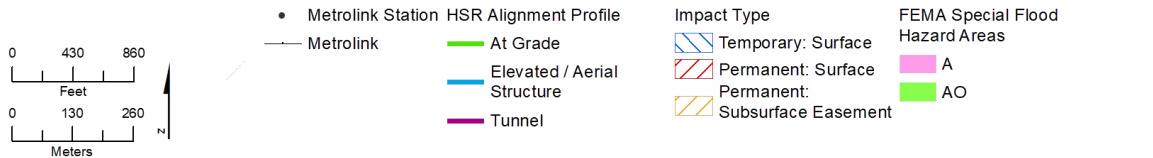
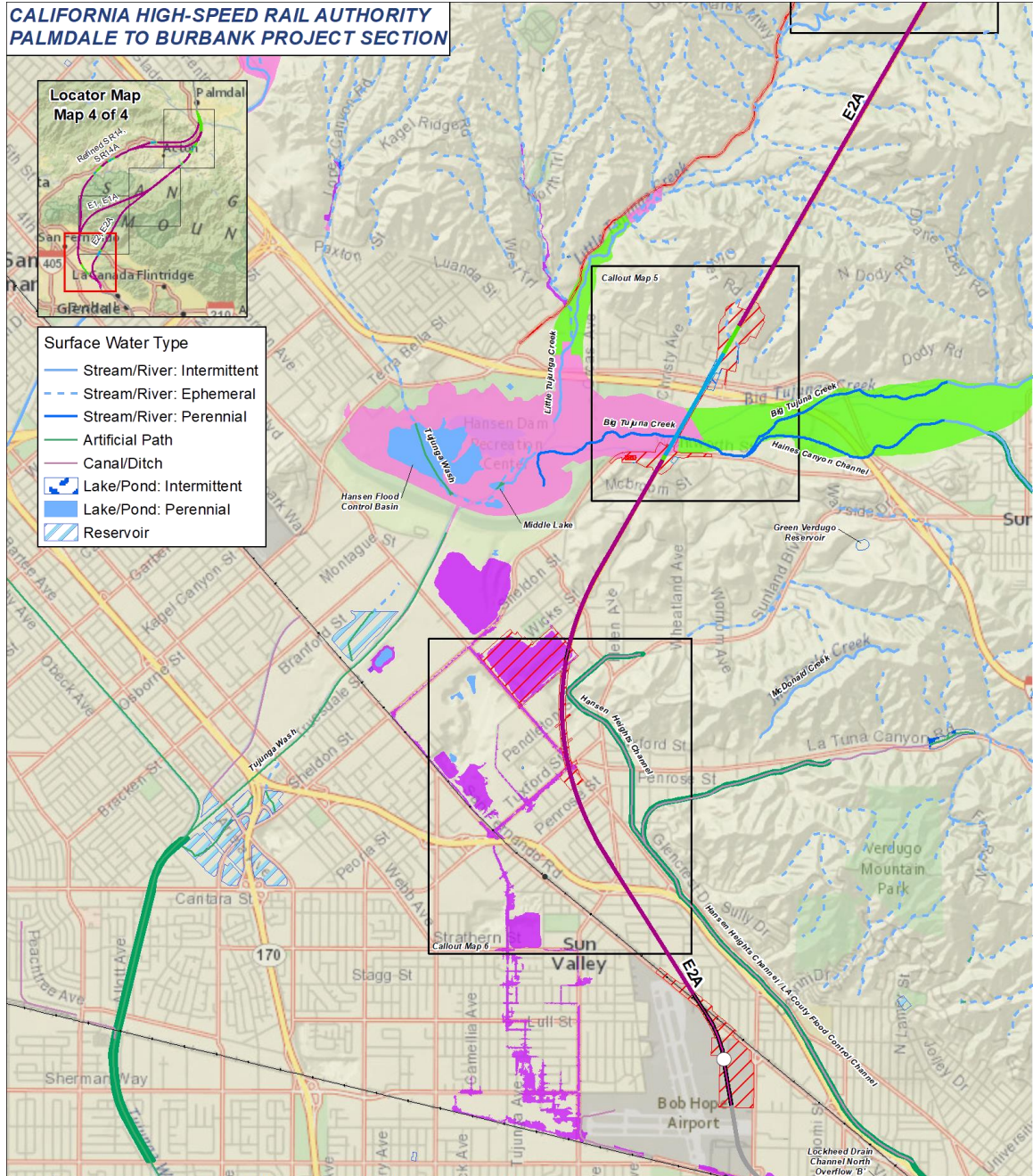


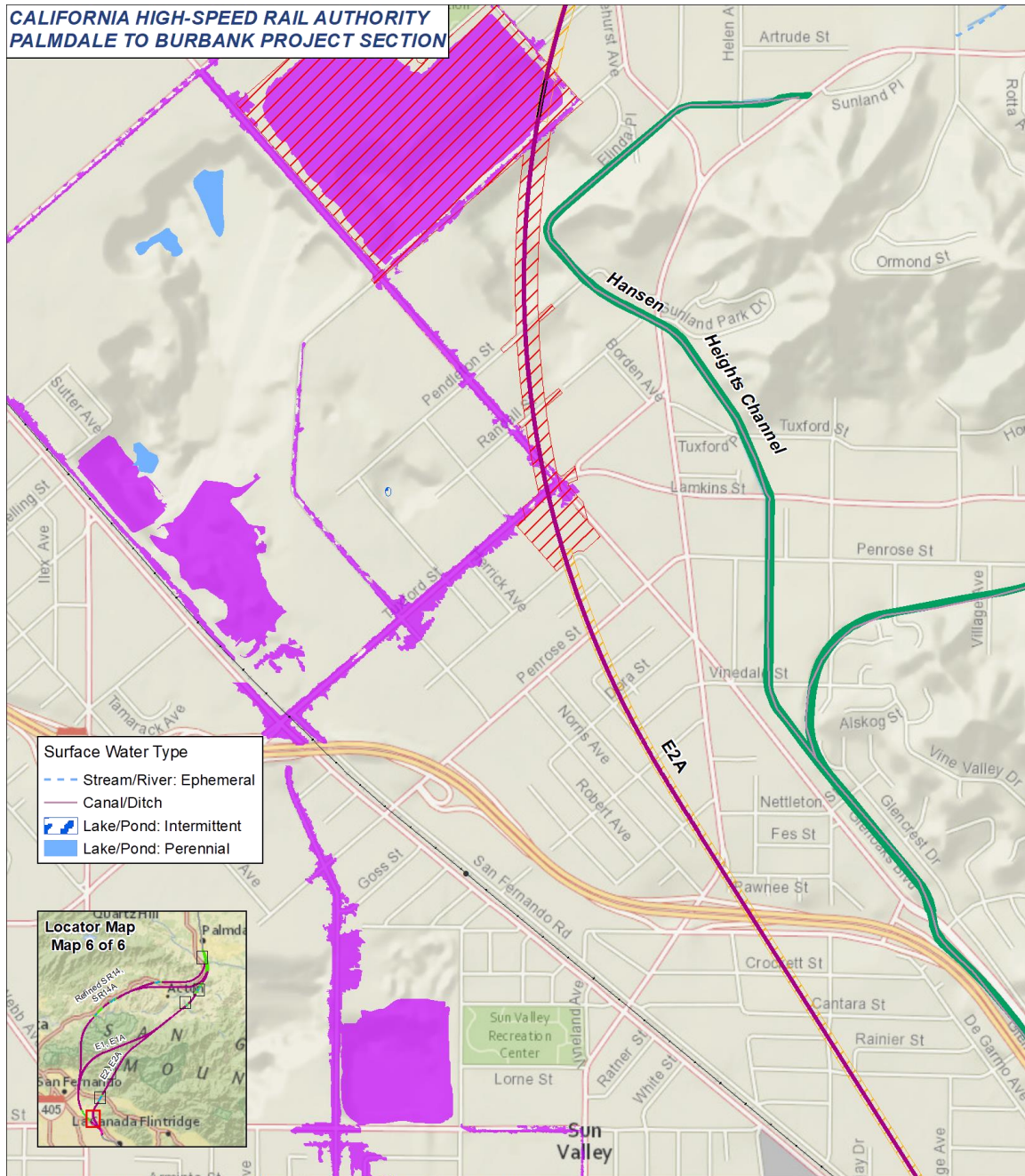
Figure 3.8-A-94 E2A Central Subsection (South) Surface Waters Callout (Map 3 of 3)



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021
 April 27, 2021

○ Proposed HSR Station	HSR Alignment	Impact Type	FEMA Special Flood Hazard Areas
— Other HSR Project Section	— At Grade	▨ Temporary: Surface	▨ A
▭ Callout Map	— Cut and Cover	▨ Permanent: Surface	▨ AE
	— Elevated / Aerial Structure	▨ Permanent: Subsurface Easement	▨ AO
	— Tunnel		▨ AE - 1% Annual Chance Flood Hazard Contained in Channel

Figure 3.8-A-95 E2A Central/Burbank Subsections Surface Waters Overview (Map 1 of 2)



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: Authority, 2020; USGS NHD, 2016; National Geographic, 2021
 April 13, 2021

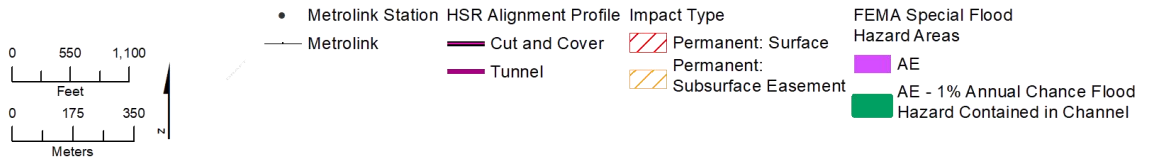


Figure 3.8-A-96 E2A Central/Burbank Subsections Surface Waters Callout (Map 2 of 2)