

July 1, 2024

454196-1: SR 33 Resurfacing from the Polk County Line to CR 33

State Road Numbers: 33/50
 Section Numbers: 11020-000/11070-000/11170-001
 County: Lake
 Project Limits: From the Polk County Line to west of CR 33, including Lake Avenue in Groveland
 Begin MP/End MP: 11020-000
 0.000 to 16.296 (See Concept for project exceptions), 12.719 MI + 0.287 MI + 1.388 MI = 14.394 MI
11070-000
 4.167 to 4.293 = 0.126 MI
11170-000*
 0.000 to 0.007 = 0.007 MI
11170-001
 0.021 to 0.053 = 0.032 MI
 Total Gross Project Length: 16.461 MI
 Total Net Project Length: 14.559 MI
 FM: 454196-1

*Section data not separated due to insignificant length. Roadway characteristics, classifications, etc. are included under Rdwy ID 11170-001. Right of Way and existing plans are covered under adjacent projects.

1. Existing R/W Map Project Numbers:	<u>11020-000</u> 238364-1 Maint (2014); MP 0.000 to MP 13.795, 33-ft LT & RT (typ) 433860-1 (2017); MP 1.247 to MP 3.297, 33-ft LT and RT (min) 11070-2511 (1992); MP 0.000 to MP 0.264, 75-ft LT & 50-ft RT 11020 Maint (1990); MP 0.000 to MP 0.165, 33-ft LT & RT 11020 Maint (1981); CR 33 from SR 50 to SR 25, 33-ft LT & RT (min) 11070-2504 (1976); MP 13.825 to MP 14.109, 40-ft LT & RT (typ) 11020-2502 (1975); MP 13.825 to MP 16.296, 40-ft LT & RT (typ) 1102-106 (1956); MP 2.471 to MP 2.626, 50-ft LT & RT 1102-104_Prelim (1952); MP 14.590 to MP 15.375, 40-ft LT & RT 1102-104 (1951); MP 14.006 to MP 16.240, 40-ft LT and RT <u>11070-000</u> 435859-1 (2020); MP 3.100 to MP 4.293, varies, 35-ft LT & RT min 11070-2503 Prelim (1972); MP 0.000 to MP 4.293, var 20-ft LT & RT min	
2. Old Construction Project Numbers:	<u>11020-000</u> 423096-1 (2014); MP 0.962 to MP 1.259, Intersection Imp (CR 474) 421974-1 (2010); MP 13.722 to MP 16.260, Milling & Resurfacing 417164-1 (2007); MP 0.000 to MP 13.757, Milling & Resurfacing 11020-3501 (1991); MP 13.685 to MP 16.078, Milling & Resurfacing 11070-3517 (1992); MP 16.109 to MP 16.296, Milling & Resurfacing 1102-106 (1956); MP 2.516 to MP 2.556, Bridge Replacement 1102-105 (1954); MP 0.000 to MP 13.849, Widen & Resurface 1102-104 (1950); MP 13.825 to MP 16.227, Reconstruction <u>11070-000</u> 423346-1 (2010); MP 0.026 to MP 4.244, Milling & Resurfacing 11070-3517 (1992); MP 3.639 to MP 4.293, Milling & Resurfacing 1107-107 (1950); MP 0.000 to MP 4.293, Reconstruction	
3. Additional R/W required?	No.	
4. Level of Community Awareness Plan:	CAP Level 2, resurfacing.	
5. Agreements required?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
	<input type="checkbox"/> Yes, including Local Funds.	
6. Are there any bridges within the limits?	#110099 over Green Swamp.	
7. Are there any RR Crossings within the project limits or in the vicinity?	No.	

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8. Are there any Airports within 10 nautical miles?	Yes.			
9. Storm Water Management jurisdiction:	SJRWMD & SWFWMD.			
10. Is the Project within the CCCL (<i>Coastal Construction Control Line</i>)?	No.			
11. Existing Utilities: (per SS1C, as-builts, and field markers)	AT&T Corp/PEA AT&T Florida Bright House Networks LLC dba Charter/Spectrum CenturyLink/ Level 3 CenturyLink/Lumen City of Groveland – Sewer/Water City of Mascotte – Water Duke Energy Florida, LLC (Distribution) Duke Energy Florida, LLC (Fiber) Duke Energy Florida, LLC (Transmission) Lake Apopka Natural Gas Spectra Energy – Sabal Trail Transmission Summit Broadband Sumter Electric Cooperative (SECO) Verizon Business/MCI ZAYO Group			
12. Any special MOT concerns?	Pedestrian detours in school zones. The Mascotte Police Department and Lake County Fire Station 91 are adjacent to the project. The Lake County School Transportation bus yard accesses SR 33 from Parkwood St and Anderson Rd. Coordinate lane closures and other construction activities that may impact operations.			
13. Any construction concerns?	No.			
14. Design/Posted/Target Speeds (mph):	Location (MP)	Design Speed	Posted Speed	Target Speed
	<u>11020-000</u>			
	0.000 to 12.685	65	60	60
	12.685 to 13.250	65	50	50
	13.250 to 13.757	65	40	40
	13.757 to 13.825	40	40	40
	13.825 to 13.853	40	40	35
	13.853 to 14.354	40	35	35
	14.354 to 16.124	40	45	45
	16.124 to 16.296	40	35	35
	<u>11070-000</u>			
	4.167 to 4.293	40	35	TBD
	<u>11170-001</u>			
	0.021 to 0.053	UNK	30	TBD
15. Design Criteria, Context, and Access Classification:	SHS, FDM (2024), RRR			
	Location (MP)	Context Classification		Access Class
	<u>11020-000</u>			
	0.000 to 13.825	C2 "Rural"		04
	13.825 to 14.161	C2T "Rural Town"		04
	14.161 to 14.558	C3C "Suburban Commercial"		04
	14.558 to 15.866	C3C "Suburban Commercial"		03
	15.866 to 16.296	C2T "Rural Town"		03
	<u>11070-000</u>			
	4.167 to 4.293	C2T "Rural Town"		04

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Design Criteria, Context, and Access Classification Cont'd	Location (MP)	Context Classification	Access Class
	<u>11170-001</u> 0.021 to 0.053	C3C "Suburban Commercial"	04
16. Lump Sum or Pay Item?	Pay Item.		
17. Proposed Design Schedule:	18-24 Months.		

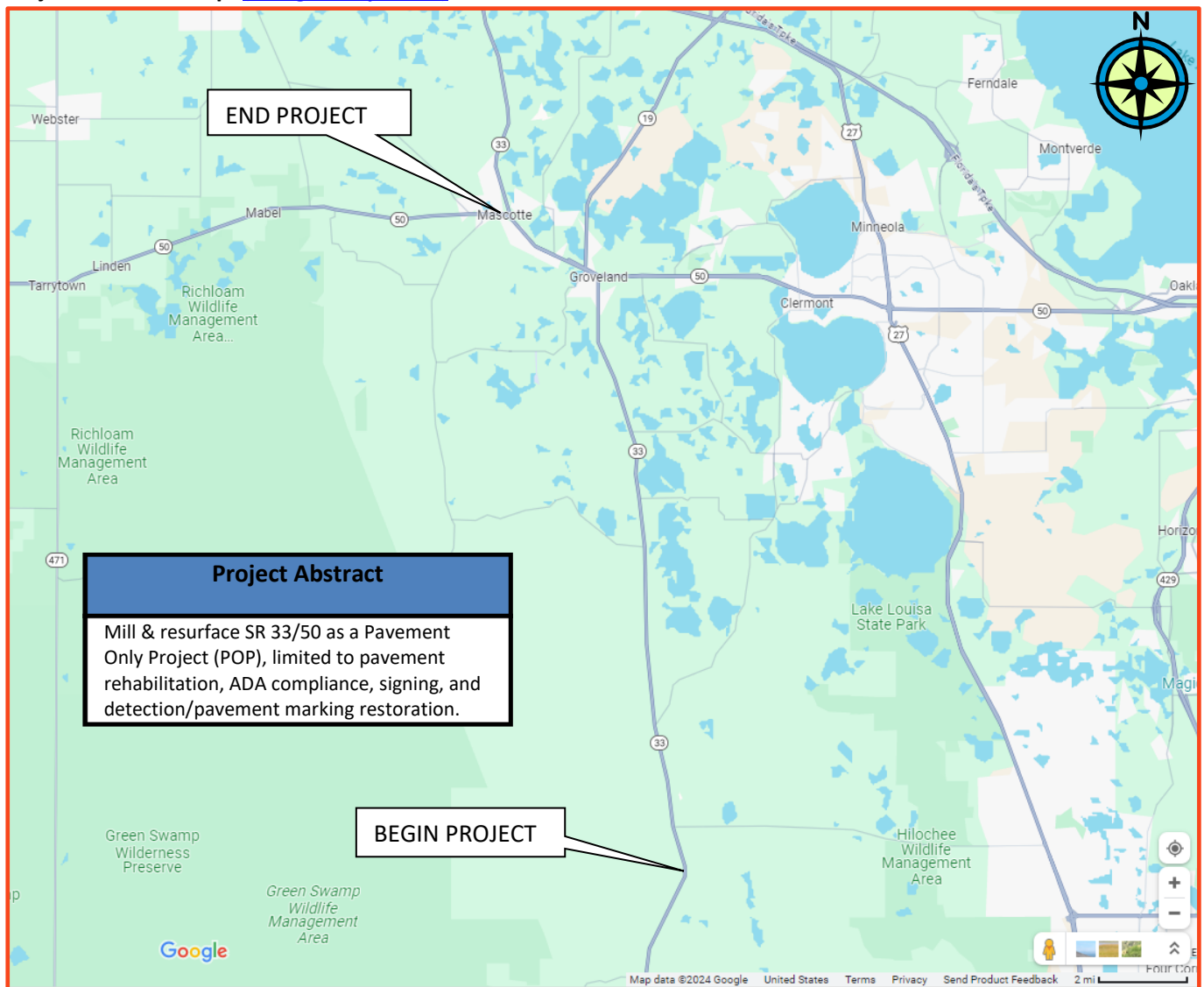
The District has determined that this project is to be programmed as a "Pavement Only Project" (POP) and therefore additional roadway and roadside evaluation, analysis, improvements, etc. are not to be included.

The Engineer is responsible for verifying all items in the proposed scope and shall review the project for conformance with all applicable criteria and standards within the context of a POP.

Local Agency Coordination:

Conduct a Stakeholder meeting during the design phase to confirm the proposed scope remains consistent with the expectations set during scoping, close the loop on what will be included in the project and learn of any changes that may have occurred since the Scopes development.

Project Location Map: [\(Google Maps Link\)](#)



Intent and Nature of Project:

The purpose of the project is to restore the functional condition of the asphalt pavement to extend the service life of the existing roadway in accordance with FDOT Design Manual Section 114.1.4 as a POP. The nature of the

project is limited to asphalt resurfacing, ADA compliance, detection restoration, and signing and pavement markings. The project is based on a request from the FDOT District 5 Pavement Management and Maintenance Office for a review of Roadway 11020-000 from MP 0.000 to MP 16.296. Milling and resurfacing exceptions have been introduced at the interfaces of adjacent projects to avoid redundant and overlapping work. Roadway 11170-001 was added to the project to eliminate an orphan section of pavement between adjacent projects. Roadway 11070-000 was added to extend the project limits to the end of the curb and gutter section. The FDOT PM is to confirm limits and status of these projects prior to advertisement.

- The Concept and Scope are provided to convey the general overall intent of the project and to establish the estimated cost for programming. These documents are not intended to serve as detailed design level directives but are to communicate the projects primary objectives as approved by District staff. The Engineer is responsible for developing the final design within the constraints of the project budget while meeting the project's needs.

Project Description:

- Project is in southern Lake County and partially within the Cities of Groveland and Mascotte.
- SR 33/50 is classified as a rural minor arterial from MP 0.000 to MP 12.811, an urban minor arterial from MP 12.811 to MP 13.797, and an urban principal arterial from MP 13.797 to MP 16.296 and MP 4.167 to MP 4.293. The SR 50 leg is designated as an SIS corridor and the entire project is a designated evacuation route.
- The following projects have been identified within the vicinity of this resurfacing project.
 - FPID: 427056-1 SR 50 Realignment Project, currently in design, proposes to realign SR 50 to the north of the Groveland downtown core and transferring the existing east and westbound pairs to the City. The project is anticipated to be let to construction in June 2026. The FDOT PM is Shelley ChinQuee.
 - FPID: 432332-1 SR 19 Milling and Resurfacing project from north of SR 50 to Oleander Avenue in Howey-in-the Hills is currently under construction and is anticipated to be complete in Fall 2024. This project will set the construction limit at the SR 19 intersection. The FDOT Design PM is Kevin Powell.
 - FPID: 435859-5 SR 50 Reconstruction and Widening Project, currently in design, will be realigning the CR 33 intersection to eliminate the skew, and milling and resurfacing SR 50 to approximate MP 16.227, and eliminating the free flow right bringing the movement under signal control. Right of Way acquisition is anticipated to be completed in Summer 2025. The FDOT PM is Jude Jean-Francois.
 - FPID: 445685-1 SR 33 Safety and Operational Improvements Project, currently in design, proposes widened paved shoulders in 2 horizontal curves, new southbound left turn lanes to Groveland Airport Rd and Pine Island Rd, pedestrian and operational improvements at the SR 50/SR 33 intersection, and northbound sidewalk between Domenico Ct and Parkwood Rd (MP 13.066 to MP 13.583). The project is anticipated to be let to construction in July 2025. The FDOT PM is Tyler Burgett.
 - FPID: 447093-1 SR 33/50 RRR project from west of the Groveland bifurcation to Crittenden Street is resurfacing the east/southbound (Orange Avenue) only section. The project is currently under construction and is anticipated to be completed in Fall 2024. The FDOT PM is Jude Jean-Francois.
 - FPID: 447609-1 CR 565 (Villa City Rd) Paved Shoulder Widening project proposes to mill and resurface and construct 4-ft paved shoulders with Safety Edge from just north of the SR 33/50 intersection to US 27. This is a LAP with Lake County which is currently funded for construction in 2025. The FDOT PM is Vishal Patel.
 - FPID: 452915-1 SUN Trail Project, currently in the planning phase, proposes to complete the SR 50 Coast to Coast (C2C) gap from CR 565 (Villa City Rd) to Midway Ave (MP 14.921 to MP 16.296). The preferred alignment is on the north side of SR 50 with a reduced median width. The project is not funded for design or construction.

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- The District Traffic Operations Office has completed a Stage 2 Intersection Control Evaluation (ICE) at the CR 474 (MP 1.069) intersection. A signal warrant was met and will be constructed via pushbutton contract. The FDOT PM is to confirm the status prior to advertisement.
- City of Groveland E Broad Street Streetscape Phase II, from Main Ave to Lake St (MP 14.095 to MP 14.150), is currently under construction and anticipated to be completed in Summer 2024. Improvements include sidewalk, pedestrian lighting, landscaping, irrigation and trash receptacles. The City point of contact is TJ Fish, Director of Transportation and Public Works.

Typical Sections:

- Per as-built plans, the project includes 4 typical sections, no changes are proposed.
 - MP 0.000 to MP 13.709: two lane undivided flush shoulder roadway with 12-ft travel lanes and 6-ft shoulders (4-ft paved).
 - MP 13.837 to MP 14.115 (Broad Street): westbound direction of one-way pairs through downtown Groveland (FPID: 447093-1 is addressing the eastbound direction), is comprised of two 12-ft travel lanes, variable width parking lanes LT & RT, type F curb and gutter with variable width sidewalks and utility strips LT & RT.
 - MP 14.908 to MP 16.296 and MP 4.293 to MP 4.167 (Meyers Boulevard): four lane divided curb and gutter section with two 12-ft travel lanes, type F curb and gutter, 3-ft grass utility strip and 5-ft sidewalk per direction separated by a 23.5-ft type E curb and gutter median.
 - MP 0.000 to MP 0.007 and MP 0.021 to MP 0.053 (Lake Avenue): two lane undivided curb and gutter section with 14-ft travel lanes and variable width parking lanes, type F curb and gutter, 3-ft utility strip and 5-ft sidewalks.
- Based on 2023 Traffic Data (only sites within the milling and resurfacing limits are shown).

MP	TMS Site No.	AADT	T%
3.212	111000	13,300	14.1
3.504	111002	9,700	29.5
10.290	110497 ²	10,900	17.5
12.960	110095	11,000	14.1
13.706	115072	15,700	14.1
14.119 ¹	115076	15,000	7.4
15.086	110241	25,500	12.5

¹Adjustment of exception limits may affect this site.

²Site is within project exception.

Roadway Scope Items:

- A Pavement Condition Assessment has been requested and will be completed by FDOT. The pavement is in fair to poor condition with moderate longitudinal cracking, moderate rutting, and alligator cracking in the wheel paths. Prepare five pavement designs: 1) milling and resurfacing the flush shoulder travel lanes, 2) deeper rehabilitation of the flush shoulder travel lanes, 3) milling and resurfacing the paved shoulders, 4) milling and resurfacing the pavement in the curbed section, and 5) deeper rehabilitation of the pavement in the curbed section.
- MPSV data will be requested; however, cross slope and superelevation correction are not to be included as components of this project.
- Loose aggregate and sediment is depositing on the paved shoulder and outside travel lane from some unpaved turnouts. Construct an additional 5-ft asphalt apron to reduce collection on the paved shoulder. 45 locations have been assumed for estimating purposes.

Drainage Scope Items:

- The existing drainage structures and systems are to be maintained. No work.

Utility Scope Items:

- Adjust all valve covers, utility pull boxes, fire hydrants, manholes, etc. to be flush with proposed sidewalk, curb ramps, roadside, and roadway pavement as necessary to complete the proposed improvements.
- Quality Level C “QL C” utility information is anticipated.
- The Engineer is to confirm and show utility poles on all applicable plan sheets for the purpose of utility coordination.

Multimodal Scope Items:

- The Engineer shall include a project-specific pedestrian/bicyclist temporary traffic control plan.

Transit:

- LakeXpress route 50 utilizes the SR 50 portion of the corridor. Coordinate temporary construction relocations and other transit issues.

Bicycles:

- There are no bicycle lanes in the curb and gutter section. The 4-ft paved shoulders serve as the bicycle facility in the flush shoulder section. No changes are proposed.
 - Right turn lanes do not have keyholes.

Pedestrians:

- Reconstruct existing curb ramps that do not comply with minimum ADA criteria and ensure all ramps have detectable warning surfaces (DWS). 20 ramps have been assumed to require reconstruction for estimating purposes.
- Existing gaps in sidewalk connectivity are to remain.
- MP 15.381 (Atlantic Ave): Existing unsigned, unmarked, mid-block pedestrian crossing is to be removed. Restore curb lines, utility strip, adjacent sidewalk, and median.

Permitting Scope Items:

- Coordinate with FDOT, submitting a permit determination letter to the Environmental Permits Office, Attention District Five Permits Coordinator, for review and concurrence during the design process, considering the below descriptions of work and conditions.
 - This project is not anticipated to exceed one acre of soil disturbing activities and will not require NPDES coverage under the FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities.
 - Wetlands were noted within and adjacent to the Right of Way and are not to be impacted. The apparent wetland lines shown on the Concept are from the Florida Geographic Data Library and are for informational purposes only.

Environmental Scope Items:

- Complete an environmental assessment:
 - A protected species assessment is required for the project. The level of assessment should be commensurate with the scope of work. The assessment should focus on species applicable to the project area with consideration given to consultation areas, habitats, and known occurrence data.
 - A contamination assessment is required for the project. The level of documentation required will be dependent on the contamination sites in the area, scope of work proposed, and previous assessments conducted. Coordinate with the District Contamination Impact Coordinator to determine project needs.
- A Cultural Resources Assessment is required and is to be conducted by Cultural Resources Professionals as outlined in 36 CFR Part 61 and set forth in the Professional Qualifications Standards section of the Secretary of the Interior’s Standard and Guidelines for Archaeology and Historic Preservation.

Structural Scope Items:

- No work.

Traffic Operations (Includes Signing, Signals, ITS) Scope Items:

Signing and Pavement Markings

- Signing and pavement markings shall be completed for the project limits. Inventory all signing including evaluation for compliance with all applicable criteria and coordinate with the District Design Office for any changes to existing signing. Any existing signs that conflict with the proposed signs or pavement markings, and non-compliant signs or pavement markings, are to be addressed in the plans.
 - Reestablish the school zone signing and pavement markings.
 - A No Passing Zone study is not required, the existing passing restrictions are to be carried forward.
 - This project qualifies for lane departure mitigation thru the application of Audible and Vibratory Treatment based on the posted speed equal or greater than 50 mph and flush shoulder typical section.

Signals

- The project includes 3 signalized intersections. Restore vehicle detection in-kind if disturbed by milling and resurfacing operations. No changes are proposed.
 - SR 19 (MP 14.150)
 - CR 565 (Villa City Rd) (MP 14.921)
 - CR 33 (MP 16.296)
- There are 7 Traffic Monitoring Sites within the project limits. Coordinate disposition with the District Data Collection Manager, work is limited to removal of site or restoration of detection if the site is to remain. 4 are road tube sites, and 1 is outside the current project limits, no work is anticipated.

Intelligent Transportation Systems (ITS)

- Restoration of the detection systems are to be consistent with the ITS Master Plan. The Engineer;
 - Shall follow the Risk Assessment protocol, including Checklist and Systems Engineering analysis.
 - Shall designate fiber in the plans, determine any conflicts and resolve.
- Additional ITS guidance can be found here:
[https://www.cflsmartroads.com/projects/technical_docs.html#\(Designers\)](https://www.cflsmartroads.com/projects/technical_docs.html#(Designers))

Lighting Scope Items:

- No work.

Landscaping Scope Items:

- No work.

Surveying and Mapping Scope Items:

Design Survey

- Obtain Design Survey, collecting data for the areas and locations of proposed work. Total survey area will be determined by the Engineer based on the limits of disturbance.
 - Survey locations in relation to the State Plan Coordinate System.
 - Locate utilities as Quality Level C "QL C" and surface features including valve covers, meter boxes, manholes, etc. within the areas of proposed work.
 - Include items identified by the environmental assessment.

Right of Way Mapping

- No work.

Office of Right of Way Scope Items:

- No work.

Geotechnical and Pavement Scope Items:

- FDOT to perform Pavement Coring Report and provide ESAL calculation and Resilient Modulus values.

Design Documentation:

- POP projects are exempt from Design Variation and Exception documentation other than for ADA curb

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ramp requirements. If compliance with ADA curb ramp requirements is determined to be technically infeasible within the POP limitations, a Design Variation will be required.

- Design Variation Memorandum
 - None.
- Design Variation
 - Named and stop controlled side street connections are provided by concrete driveway apron with detectable warnings. Modification does not appear practical within the Right of Way. If the driveway apron side street connections cannot be modified to provide a compliant pedestrian path within the existing Right of Way, these locations are to be omitted from reconstruction.
 - MP 15.068 Wendell Ave
 - MP 15.211 Groveland Farms Rd
 - MP 15.315 Anderson Ave
 - MP 15.615 Ashland St
 - MP 16.109 American Legion Rd
 - Additional locations pending ADA evaluation.
- Design Exception
 - None.

Additional Items Considered During Scoping:

- None.