September 6, 2024

**454892-1: SR 423 (Lee Rd) at Country Club Dr Pedestrian Improvements**

State Road Number: 423

Section Number: 75190-000

County: Orange

Project Limits: at Country Club Dr

Begin MP/End MP: 9.460 to 9.553 (0.093 MI)

FM: 454892-1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Existing R/W Map Project Numbers: | 75190-2502 (1965) MP 6.421 to MP 9.864, 50-ft LT & RT typ  7555-152 (1953) MP 8.635 to MP 9.864, 40-ft LT & RT typ | | | |
| 1. Old Construction Project Numbers: | 442390-3 (2024); MP 8.635, Intersection Lighting Bundle D (Wymore Rd)  432408-1 (2017); MP 8.658 to MP 9.864, Mill & Resurface  75190-3529 (1992); MP 8.604 to MP 9.851, Mill & Resurface  75190-3527 (1988); MP 9.411 to MP 9.649, Median Improvements  75190-3524 (1988); MP 9.455, Drainage Improvements  75190-3515 (1977); MP 6.420 to MP 9.864, Resurfacing  75190-3502 (1969); MP 6.431 to MP 9.864, Reconstruction | | | |
| 1. Additional R/W required? | No. | | | |
| 1. Level of Community Awareness Plan: | CAP Level 3, access management change and new pedestrian signal. | | | |
| 1. Agreements required? | No | Yes | | |
| Yes, including Local Funds. | | | |
| 1. Are there any bridges within the limits? | No. | | | |
| 1. Are there any RR Crossings within the project limits or in the vicinity? | No. | | | |
| 1. Are there any Airports within 10 nautical miles? | Yes. | | | |
| 1. Storm Water Management jurisdiction: | SJRWMD. | | | |
| 1. Is the Project within the CCCL *(Coastal Construction Control Line)*? | No. | | | |
| 1. Existing Utilities:   (per SS1C, as-builts, and field markers) | AT&T Florida  AT&T Mobility  Bright House Networks LLC dba Charter/Spectrum  CenturyLink/Level 3  CenturyLink/Lumen  City of Winter Park – Electric/Sewer/Water  Duke Energy Florida, LLC – Distribution  Duke Energy Florida, LLC – Fiber  Duke Energy Florida, LLC – Transmission  GIGAPower, LLC  Summit Broadband  TECO Peoples Gas  Verizon Business/MCI  WOW (Wide Open West)  ZAYO Group | | | |
| 1. Any special MOT concerns? | Pedestrian detours required. | | | |
| 1. Any construction concerns? | None. | | | |
| 1. Design/Posted/Target Speeds (mph): | Location (MP) | Design Speed | Posted Speed | Target Speed |
| 9.460 to 9.520 | 45 | 45 | N/A |
| 1. Design Criteria and Context/Access Class: | SHS, FDM (2024), RRR | | | |
| Location (MP) | Context Classification | | Access Class |
| 9.460 to 9.520 | C4 “Urban General” | | 05 |
| 1. Lump Sum or Pay Item? | Pay Item. | | | |
| 1. Proposed Design Schedule: | 18-24 Months. | | | |

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.

# 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 Scope’s development.

The Engineer shall coordinate to obtain an agreement, or modification of an existing agreement, with the maintaining agency for maintenance related to the proposed improvements, including lighting, pedestrian signals, etc.

# MC900239015[1]Project Location Map: [(Google Maps Link)](https://www.google.com/maps/place/Lee+Rd+%26+Country+Club+Dr,+Winter+Park,+FL+32789/@28.6060187,-81.3731575,963m/data=!3m2!1e3!4b1!4m6!3m5!1s0x88e77068430fd0bf:0xb70bfd612c26d114!8m2!3d28.6060154!4d-81.3713368!16s%2Fg%2F11hb5n9m1k?entry=ttu)

PROJECT LOCATION

**Project Abstract**

Provide a directional median and mid-block crossing at Country Club Dr and corridor lighting.

# Intent and Nature of Project:

The purpose of the project is to provide pedestrian improvements in accordance with FDOT Design Manual requirements. The project is based on a request from the FDOT District 5 Safety Office to implement the recommendations of the *Pedestrian Safety Study* completed by Stanley Consultants, Inc. dated June 2024 (Study). Proposed improvements are limited to satisfying the long-term recommendations of the Study. The Engineer is to confirm that the short-term recommendations have been incorporated prior to design, and if not, they are to be added to the Scope of this project.

* The project limits are defined by the signalized pedestrian mid-block; however, construction limits extend from Wymore Rd (MP 8.653) to SR 15/600 (US 17-92) and includes corridor lighting upgrades only. No additional modifications, improvements, design documentation, etc. are to be included for these limits.
* The Scope and Plan Sheets 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 project’s primary objectives as approved by District staff. The Engineer is responsible for developing the final design to implement the long-term recommendations of the Study within the constraints of the project budget while meeting the project’s needs.

# Project Description:

* Project is in Orange County and within the City of Winter Park.
* SR 423 is classified as an urban principal arterial roadway.
* The following project has been identified within the vicinity of this project. The FDOT PM is to confirm limits and status of this project prior to advertisement.
  + FPID: 452910-1 SR 15 (US 17-92) Pavement Only Project (POP) from SR 423 (Lee Rd) to the Seminole County Line with a proposed April 2027 letting date. The FDOT PM is Marcus Lisicki.
  + Traffic signal by others (permit) at Bennett Ave (750-ft E of Country Club Dr) per the District Traffic Operations Office. No additional information was available at the time of scoping.

# Typical Sections:

* Per as-built plans, the project includes 1 typical section. No changes are proposed.
  + Four lane divided curb and gutter roadway with 11-ft travel lanes, 4-ft bike lane, type F curb and gutter, variable width (0-ft to 3-ft) utility strip and 5-ft sidewalk, per direction separated by a variable width (15.5-ft to 28.5-ft) curbed raised median (type E) and variable width (0-ft to 6.5-ft) paved inside shoulders.
* Per 2023 traffic data:

|  |  |  |  |
| --- | --- | --- | --- |
| **MP** | **TMS Site No.** | **AADT** | **T%** |
| 9.529 | 750519 | 38,500 | 2.7 |

# Roadway Scope Items:

* Reconstruct the intersection at Country Club Dr (MP 9.490) to convert the existing full median opening to a restricted crossing U-turn (RCUT) and provide a signalized pedestrian crossing.
* Extend eastbound left turn lane to Bennett Ave (MP 9.624).
* 2 pavement designs are assumed for estimating purposes. 1) milling and resurfacing the friction course for pavement markings and 2) turn lane widening. Widening details are anticipated.
  + Geogrid is present beneath the base layer of the westbound travel lanes per SPN: 75190-3527.

# Drainage Scope Items:

* Based on field observations the existing roadside drainage system appears to be functioning properly. No work.
  + Existing 96-in pipe under outside westbound curb line is to remain.

# Utility Scope Items:

* Adjust all valve covers, utility pull boxes, fire hydrants, utility manholes, etc. to be flush with proposed sidewalk, ramps, roadside, and roadway pavement as necessary to complete the proposed improvements.
  + Utility relocations and adjustments are anticipated.
  + Proximity of existing overhead utilities and proposed signal poles may require temporary de-energization during construction.
* Quality Level A “QL A” utility information is anticipated. Construction activities that involve underground work within proximity to noted utilities include proposed mast arm, light poles, and pedestrian signal structures.
* Above ground utilities are to be located and shown in the plans.
* Any mast arms, light poles, pedestrian poles, etc. must be Vvh’d, completed, and shown in the plans prior to the Phase II plans ERC submittal as directed by the District Utility Office.

# Multimodal Scope Items:

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

## Transit:

* LYNX route 443 utilizes the SR 423 corridor. Coordinate temporary and permanent changes that may affect the routes or stops.

## Bicycles:

* The 4-ft bike lanes serve as the bicycle facility. No changes are proposed.

Pedestrians:

* There is complete sidewalk coverage.
* Construct new curb ramps for the proposed signalized mid-block crossing.

# 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.

# 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:

* Complete the design for the proposed Pedestrian Hybrid Beacon (PHB) described in the Traffic Design Scope Items. A special assembly is anticipated.

# 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.

## Signals

* All features added or modified should be designed “Accessible Pedestrian Signal Ready” to permit future upgrades without reconstructing curb ramps or relocating pedestrian poles to meet spacing requirements.
* Complete analysis and plan detailing for the construction of a proposed Pedestrian Hybrid Beacon (PHB) at the Country Club Dr (MP 9.490) intersection. Pole locations shown on the Concept are for informational purposes only and have not been cleared. The Engineer is to determine the final pole locations with consideration given to optimizing placement within the FDOT Right of Way.
  + Construct PHB.
  + Provide 4 new pedestrian assemblies for the proposed signalized mid-block crosswalk.
* There is 1 Traffic Monitoring Site within the project limits.
  + 750519 (PTMS) – Existing site is located in the vicinity of the proposed PHB and will need to be relocated. Coordinate relocation and disposition with the District Data Collection Manager.

## Intelligent Transportation Systems (ITS)

* The proposed signal is to be consistent with the ITS Master Plan. The Engineer;
  + Shall follow the Risk Assessment protocol, including Checklist and Systems Engineering analysis.
  + Shall design the signals to be smart signal compatible with the Districtwide ATSPM database and future compatibility for CV, including enhanced detection.
  + 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:

* There is existing utility-pole mounted lighting on both sides of SR 423.
  + Upgrade the roadway lighting from Wymore Rd (MP 8.655) to SR 15/600 (US 17-92) (MP 9.864).
  + Provide pedestrian lighting for the signalized mid-block crossing.
  + Adjustment or relocation of the existing utility pole mounted fixtures may be required based on the results of the proposed lighting calculations and design. Coordinate an agreement modification, if necessary, with the maintaining agency.

# Landscaping Scope Items:

* No work.

# Survey Scope Items:

Design Survey

* Provide 3D Topographic Survey for the areas and locations of proposed improvements.  Total survey area will be determined by the Engineer based on their needs for design.
  + Survey should include all above ground surface features, including, but not limited to valve covers, overhead utilities, meter boxes, manholes, etc.
  + Include items identified by the environmental assessment.
  + Include drainage structures and nearest connecting structures to be detailed within the survey areas only, unless otherwise instructed.
* Provide quality level “A” (QL A) Sub-surface Utility Engineering (SUE) and survey thereof for the areas and locations of proposed improvements.  Total SUE limits will be determined by the Engineer based on the limits of disturbance.
  + Vvh’s are anticipated. Coordinate with the Engineer for anticipated number of Vvh’s required for the project.
* Obtain Level 2 Survey for the proposed improvements.

Right of Way Mapping

* Establish the existing Right of Way for the areas and locations of proposed improvements based upon the best available evidence. The level of effort for this task is to be based on the proposed design and nature of the corridor.
  + A Specific Purpose Survey is anticipated.
* Establish a computed survey baseline (baselines if needed) and provide to the Engineer for their plans. Stationing should be adjusted to be different than any historic alignment, as it should not be misconstrued as a retracement of the existing alignment.

# Office of Right of Way Scope Items:

* No work.

# Geotechnical and Pavement Scope Items:

* Perform and obtain the necessary geotechnical information as directed by the Geotechnical Office.
* Soil borings to support the design of the proposed PHB.

# Design Documentation:

The design documentation items noted below are necessary to implement the proposed improvements. The Engineer is responsible for verifying all items in the proposed Scope and design conform with all applicable criteria and standards, including the identification of any required Memoranda, Variations and Exceptions.

The Engineer is responsible for reviewing crash data for conformance to FDM 114 and applicability to required design documentation.

* Design Variation Memorandum
* None.
* Design Variation
  + None.
* Design Exception
  + None.

# Additional Items Considered During Scoping:

* Per direction from the District, median opening spacing that does not meet FDM Access Management criterion is not required to be documented when the existing substandard condition is to remain.
* Preliminary structural review indicates that there is insufficient structural capacity to provide “Stop For Peds” blank out signs to the existing mast arms on all approaches of the SR 15/600 (US 17-92) intersection as recommended by the Study; therefore, they are not included in this project.
* The eastbound left turn lane at the Bennett Ave intersection was extended in anticipation of increased U-turn traffic per coordination through the ERC process. The westbound left turn lane at Country Club Dr is to remain as there are no anticipated changes to traffic.
* Median mast arm is shown in lieu of outside strain poles to avoid potential overhead and buried utility conflicts, drainage trunk line conflict, restriction of the clear pedestrian way, and differing Right of Way information. The Engineer is to confirm with survey data and select the most appropriate signal type and location within the Right of Way.