

CFRC UNDERGROUND INSTALLATION APPLICATION (PIPELINES) ADDITIONAL INFORMATION

PURPOSE

Conducting any underground activity within/on Central Florida Rail Corridor (CFRC) property including:

- New pipeline installation crossing or longitudinal to CFRC tracks
- Upgrade/modification to existing pipeline crossing or longitudinal to CFRC tracks that is not covered by an executed permit.

APPLICATION INSTRUCTIONS

The applicant must submit the following:

1. Form

The applicant must submit four (4) copies of FDOT Utility Permit - [Form # 710-010-85](#) with original signatures.

2. Supporting Information

The applicant must submit four (4) copies and one (1) electronic copy (in .pdf format) of the following information:

A. Project Location

- i. City, county, and nearest roadway crossing
- ii. Beginning and ending CFRC mileposts of work activities
- iii. Estimated area of occupation
- iv. Location of work activities and distance from the nearest rail

B. Project Information

- i. Estimated project cost
- ii. Starting and ending dates of occupation
- iii. Who is requesting the work with contact information - phone number and email address
- iv. Current agreement number and date, if applicable
- v. Consultant/Agent/Contractor information including company name, contact person, mailing address, phone number, and e-mail address
- vi. Date requesting CFRC Track Protection Services (flagging services) if needed and duration of requested service

C. Project Description

- i. Purpose of work
- ii. Scope of work
- iii. Materials

- iv. Anticipated construction means and methods
- v. List the locations and specifications of anticipated construction equipment showing the minimum distance from the centerline of nearest track to the maximum equipment reach (maximum reach based on the equipment specifications, not on the anticipated project equipment activities).
- vi. Geographic features
- vii. Special conditions
- viii. Methods for crossing tracks (if needed)

D. Pipeline commodity

- i. Wireline Commodity
 - Type of service (i.e., Transmission, Distribution, service, other)
 - Size and type of wire
 - Number of conductors
 - Voltage (if power)
 - Service to be transmitted (i.e., Power, telephone, coaxial, fiber optics, other)
 - For Fiber Optic installation, if applicable, number of innerducts within casing pipe, empty innerducts, and type of facility to be installed within each empty innerduct
- ii. Other Commodity
 - Type of commodity (i.e., Class of Hazardous Material under 49 CFR § 172)
 - Commodity to be transmitted
 - Method of Transmitting (i.e., Gravity, Force, Liquid, Gas, Steam, other)

E. Pipeline Information

- i. Crossing Pipeline
 - Number, location, and angle of each crossings
 - Total Buried length of carrier and casing pipes on property
 - Distance from base of rail to top of casing/pipe
 - Distance from ground surface or bottom of ditch to top of casing/pipe
 - Inside diameter of the carrier and casing pipes
 - Wall Thickness of both carrier and casing pipes
 - Material and Minimum Yield Point for carrier pipe and casing
 - Maximum Operating Pressure in Pipeline
 - Type of Joint
 - Protective Coating and type
- ii. Longitudinal Pipeline
 - Beginning and ending mileposts for the installation
 - Total buried length of carrier and casing pipes on property
 - Distance measured at right angle from centerline of tracks to centerline of pipeline
 - Distance from ground surface or bottom of ditch to top of casing/pipe
 - Inside diameter of the carrier and casing pipes
 - Wall Thickness of both carrier and casing pipes
 - Material and Minimum Yield Point for carrier pipe and casing

- Maximum Operating Pressure in Pipeline
- Type of Joint
- Protective Coating and type
- Type of insulators or supports
- Venting information including number, location, diameter, and height above ground, if applicable

3. Supporting Drawings and Documents

The applicant must submit four (4) copies and one (1) electronic copy (in .pdf format) of the following:

- A. Complete design plans for the proposed project, including but not limited to, plan view, cross sections, and required design details for the work to be done. The drawings should be no larger than 11 x 17 inches in size and shall include the following as a minimum:
 - i. Area of access on CFRC Right-of-Way
 - ii. Minimum horizontal and vertical distance to the nearest track, railroad crossings, bridge, and/or any other structure within the CFRC Right-of-Way.
 - iii. Anticipated construction equipment locations and specifications
 - iv. All existing overhead and underground utilities on CFRC Right-of-Way shall be considered in the project design. Appropriate measures for protecting or relocating such facilities shall be fully addressed in the plans and contract documents.
- B. Detailed schedule including proposed dates, anticipated starting times and duration for each specific project activity.
- C. A site safety plan documenting the scope of the activity proposed; equipment required; number of personnel on-site, their roles, the Point of Contact, current status of training of each; safety audits/oversight; emergency action plan; and personal protective equipment required.
- D. Proof of current insurance as required by FDOT in accordance with the CFRC Information Summary at <https://corporate.sunrail.com/doing-business-with-sunrail/corridor-use/>.
- E. Proof of certification for Roadway Worker Protection Training as required by FDOT in accordance with the CFRC Information Summary at <https://corporate.sunrail.com/doing-business-with-sunrail/corridor-use/>.
- F. Background investigation requirements for authorization to enter the CFRC at <https://corporate.sunrail.com/doing-business-with-sunrail/corridor-use/>.
- G. Copy of the current agreement/permit if this work is under an existing agreement/permit.
- H. If applicable, a Bore Plan that shall include the following items:
 - Anticipated rig capacity,
 - All proposed equipment,
 - Method for advancing the bore hole through expected soil conditions,
 - Angles
 - Depth
 - Exact location of the launching and receiving pits (must be situated at least 25 feet from the nearest track)
 - The pilot hole diameter
 - The proposed reamed bore hole
 - The contingency equipment and plans for dealing with soil conditions that a geotechnical engineer could reasonably expect to be encountered at the proposed installation site.

- The anticipated hours of operation during bore hole drilling and installation process. Consideration for working hours must be given to minimize risk to railroad operations during drilling.
 - The minimum number of personnel, and their responsibilities on-duty and on-site, during all drilling operations.
 - Pre-bore Survey gridline with angles and depths defined.
 - Statement that the bore will be tracked constantly, with the location and depth marked every 10 feet.
 - Statement that once the bore enters CFRC property, the work will be continuous until the drilling is complete, and the pipe is pulled into place.
 - Statement of expected soil conditions
 - Statement of all drill heads on site for expected and unexpected soil conditions.
 - Type of drilling fluid and additives to be used (straight water is not acceptable).
 - Anticipated drilling fluid volume used for initial bore and pull back of casing pipe.
 - Anticipated drilling fluid volume recovery (minimum 95%).
 - Anticipated drilling fluid pressure.
 - Maximum and intended capacities for the bore machine
 - Maximum and intended drilling rate for the bore machine (RPM)
 - Maximum and intended pressure for the bore machine (PSI)
 - Maximum and intended fluid volumes for the bore machine (GPM)
- I. Refer to <https://corporate.sunrail.com/doing-business-with-sunrail/corridor-use/> for any additional requirements.

APPLICATION SPECIAL INSTRUCTIONS

- A. If the information submitted with the initial permit application is not complete or is incorrect, FDOT will issue an official Request for Additional Information (RAI) to obtain the required data.
- B. Submission for Right of Entry approval will only permit the applicant to enter the CFRC Right-of-Way, for the purpose stated in the application and according to the design requirements as described in the supporting information and shown in the attachments.
- C. Submission of this application does not authorize occupancy of the property.
- D. CFRC is under no obligation to grant this request and that CFRC may deny this request for any reason, including but not limited to safety, security, engineering considerations and operating convenience.
- E. Attached location maps/plans and detailed sketch shall show exact dimensions of the project area and distances to the centerline of the nearest railroad track and road crossing, bridge or other railroad structure (if any).
- F. A copy of the Permit must be always kept on site at the work area during the term of the Permit. The permit shall be shown to any representative of FDOT or CFRC upon demand. Project may be suspended if the Permit is not on site when requested.
- G. Pipelines will also be reviewed for compliance with The American Railway Engineering and Maintenance of Way Association (AREMA, Part 5 Utilities) Standards.
- H. For any pipeline conveying gas or liquid substances, only steel pipe may be installed utilizing horizontal directional drilling (HDD).
- I. Pipelines laid longitudinally on CFRC Right-of-Way shall be located as far as practicable from any tracks or other important structures and as close to the railroad property line as

possible. Longitudinal pipelines shall not be located in earth embankments or within ditches located on the right-of-way.

- J. Pipelines laid longitudinally on CFRC Right-of-Way, 50 feet or less from the track centerline shall be buried not less than six (6) feet from ground surface to top of pipe. Where the pipeline is laid more than 50 feet from the track centerline, the minimum cover shall be at least five (5) feet.
- K. Casing pipes under CFRC track(s) shall not be less than six (6) feet from the base of rail to top of pipe at its closest point. On other portions of the CFRC Right-of-Way, where the pipe is not directly beneath any track, the depth from ground surface or from bottom of ditch to top of pipe shall not be less than three (3) feet. Where three (3) feet of cover cannot be provided from bottom of ditch, a six (6)-inch-thick reinforced concrete slab shall be provided over the pipeline for protection.
- L. Pipes carrying a flammable substance shall be vented.
- M. Bore pits must be placed outside of the CFRC Right-of-Way. If there are special circumstances which require a bore pit to be placed within the limits of the CFRC Right-of-Way, specific application must be made outlining the need for encroachment within the CFRC Right-of-Way and written permission must be obtained before construction is allowed. Misaligned bores will not be pulled and re-drilled but abandoned in place, completely filled with cement grout, compacted sand, or other methods, as approved by CFRC. New bore locations shall be at least five (5) feet to either side of the misaligned attempt and re-drilled.
- N. No wet bores will be allowed. Directional boring must utilize a machine which retrieves a majority (95%) of the drilling fluid slurry used in the placement of lines/casings.
- O. Complete design plans for the proposed project, including but not limited to plan view, pipeline profile, cross sections and required design details for the work to be done. the drawings should be no larger than 11x17 inches in size.
- P. Abandoned Facilities:
 - The owner of all pipe crossings proposed for abandonment shall notify CFRC, in writing, of the intention to abandon.
 - Abandoned pipelines shall be removed or completely filled with cement grout, compacted sand, or other methods, as approved by CFRC.
 - Abandoned manholes and other structures shall be removed to a minimum depth of two (2) feet below finished grade and completely filled with cement grout, compacted sand, or other methods as approved by CFRC.