

ENCROACHMENT SPECIFICATIONS

KERN RIVER GAS TRANSMISSION COMPANY, hereinafter called "KERN RIVER" is an interstate transporter of natural gas, which is regulated by the U.S. Department of Transportation Office of Pipeline Safety. The following specifications are designed to comply with applicable state and federal regulations to assure the safety of the public and to protect the pipeline.

The following specifications are minimum requirements for most proposed encroachments to avoid conflict with the existing easement rights. These are not the only types of activities permitted. Additional specifications may be required depending upon the proposed encroachments. Please contact the nearest KERN RIVER office to review your individual situation.

GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS

- A) Most states laws require 48 hours or two working-days notice be given to utility companies prior to beginning excavation. This may be accomplished by contacting a "One Call" or "Dig Alert" system (check your state). In states where advance notification call systems do not exist, please call (800) 272-4817, 48 hours before any work commences.
- B) KERN RIVER'S easement restricts the placement of a structure or any part of a structure within the right of way, except as may be expressly permitted herein.
- C) An authorized KERN RIVER representative must be on site during any work performed on or across the right of way.
- D) The KERN RIVER representative will determine the existing cover over the pipeline.
- E) Any change in the amount of existing cover material (soil) on and over the right of way must be approved in advance and shall be no less than that required by the U.S. Department of Transportation.

1) FENCES

- A) Fences shall not be installed parallel to the pipeline within the KERN RIVER easement. For fences installed across the right of way, the first post either side of the pipe shall be set 5 feet from the center of the pipeline in a hand dug hole.
- B) PERMITTEE shall provide access through or around fence(s) crossing the right of way to allow performance of normal right of way maintenance.
- C) Installer shall adhere to provisions A and C of GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS.

2) LANDSCAPING (plantings that require excavating deeper than 1 foot)

- A) Flower beds and shrubs are permitted within the right of way, but may be damaged by required annual surveys, if planted directly over the pipeline. Heavy maintenance may require total clearing of the right of way.
- B) No trees or deep rooted shrubs are allowed within the easement.
- C) Lawns and vegetable gardens are acceptable.
- D) Provisions A and C of the GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS pertain to this type of planting.

3) STREETS, ROADS AND DRIVEWAYS

- A) Residential driveways intended for light vehicle access to a single family dwelling must have a minimum of 5.5 feet of cover over the pipeline or an alternative engineered solution.
- B) Driveways shall not run lengthwise within the right of way and must cross on an angle, which when measured between the proposed drive and the right of way is not less than 45 degrees.
- C) An opportunity for KERN RIVER to make a pipe inspection must be given prior to the start of any construction.
- D) Provisions A, C, D and E of the GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS pertain to driveway crossings.
- E) Street or road construction may require a specific encroachment agreement from the Right of Way and Land Department, and plans for such crossings shall be submitted 90 days prior to work commencement to allow time for project impact review by the local KERN RIVER office.

4) TEMPORARY EQUIPMENT CROSSINGS

- A) To protect KERN RIVER'S pipeline from external loading, KERN RIVER must perform an evaluation to determine the effects of any proposed equipment use. KERN RIVER reserves the right to approve or deny the use of certain types of equipment. Mats, timber bridges, or other protective materials deemed necessary by KERN RIVER shall be placed over KERN RIVER facilities for the duration of any loading. Protective materials shall be, purchased, placed, and removed at no cost to KERN RIVER. The right of way must be restored to its original condition.
- B) KERN RIVER may require markings to identify specific areas where equipment use is authorized.

5) OPEN WATERWAYS

- A) Open waterways smaller than 3 feet wide at the bottom are defined as "ditches" and must have a minimum of 3.5 feet of cover from the top of the pipe to the bottom of the ditch, or the ditch must be lined using an approved method and material. Larger open waterways are defined as "canals" and are considered on an individual basis.
- B) Anyone altering (clearing, regrading or changing alignment) a waterway must obtain approval from KERN RIVER prior to making changes and shall meet Provisions A and C of the GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS.
- C) An opportunity will be provided for KERN RIVER to install casing and/or other structural protection prior to canal installation.

6) EXCAVATION

- A) Plans for any excavation on the right of way must be approved prior to commencing work. Excavating within 3 feet of the pipeline shall be done by hand until the pipeline is exposed and shall be done only in the presence of an authorized KERN RIVER representative. When excavating for crossing a ditch line, after the pipe has been exposed, the excavation equipment must be positioned such that it will not reach within 2 feet of the pipeline. Final stripping on sides and top of the pipeline shall be by hand.
- B) When a backhoe is used, the bucket teeth should be curled under each time it is brought back into the ditch to reduce the chance of teeth contacting the pipe.

GENERAL
REQUIREMENTS FOR
BURIED
CROSSINGS

Permit No.
Date
One Call Ticket No.

- A) All buried lines crossing KERN RIVER'S right of way shall be installed in accordance with all applicable codes and requirements governing such installations.
- B) All foreign lines shall cross KERN RIVER'S right of way at an angle as close to 90 degrees as possible. Parallel occupancy of KERN RIVER'S right of way shall not be allowed unless specifically permitted by KERN RIVER.
- C) All buried lines should cross under the pipeline. However, when obstructions or unfavorable soil conditions are encountered, or when the KERN RIVER pipeline is located at a depth greater than 4 feet, approval to cross over the line may be granted.
- D) To avoid unexpected service interruptions of buried lines crossing over KERN RIVER pipeline, a minimum of 24 inches of cover (or local minimum required depth) must be provided over the crossing line.
- E) All buried lines crossing the KERN RIVER pipeline shall maintain a minimum separation of 24 inches between the two facilities, with the same depth carried across the entire right of way.
- F) A joint trench is the recommended method for multiple utility crossings. Under normal circumstances this requires that only one permit be obtained by the excavating company.
- G) No foreign appurtenances (meters, poles, drop boxes, collection basins, etc.) shall be located on the right of way, except as may be permitted.
- H) A buried warning tape shall be placed 12 to 18 inches above the crossing line and extend across the entire right of way, as a protective measure.
- I) An authorized KERN RIVER representative must be on-site during all excavation and clean-up work performed on the right of way.

7) COMMUNICATION LINES (TELEPHONE, TV, OTHER DATA LINES)

- A) Communication lines shall meet all provisions of the GENERAL REQUIREMENTS - BURIED LINE CROSSINGS
- B) Communication lines shall be encased in a rigid nonmetallic conduit across the full width of the right of way.
- C) Signs shall be placed by the encroaching party at each edge of the right of way to mark the underground cable angle and path of crossing.

8) POWER LINES

- A) Power lines shall meet all of the above GENERAL REQUIREMENTS - BURIED LINE CROSSINGS and shall be installed in accordance with the National Electrical Safety code.
- B) Power lines shall have minimum clearances between lines of 24 inches for 0 to 600 volts; 30 inches for 601 to 22,000 volts; 36 inches for 22,001 to 40,000 volts; and 42 inches for 40,001 volts and above.
- C) Power lines shall be encased in rigid nonmetallic conduit.
- D) Signs shall be placed by the encroaching party at each edge of the right of way to mark the underground cable angle and path of crossing. If the underground cable crosses above the pipeline, the signs shall so indicate.
- E) In the event a power line crosses over the pipeline, it will be necessary to cover the crossing in red dye concrete (6 inches thick) across the full width of the right of way.

9) SEWER AND WATER LINES

- A) Sewer and water lines shall meet all above GENERAL REQUIREMENTS - BURIED LINE CROSSINGS. Nonmetallic water lines are required.
- B) Sewer line crossings are limited to tight lines only.
- C) Septic tanks and drain fields are not permitted within the right of way.

10) SUBSURFACE DRAINAGE TILE (NONMETALLIC)

- A) Drainage tile shall meet provisions A, B, E, G, H and I of GENERAL REQUIREMENTS - BURIED LINE CROSSINGS.

11) METALLIC PIPE CROSSINGS

- A) All 4-inch and larger metallic pipes crossing KERN RIVER'S pipeline, or any metallic pipe transporting hazardous materials (petroleum, natural gas, etc.), shall have two cathodic protection test leads installed on the KERN RIVER pipeline(s) and two on the crossing pipe at the point of intersection.
- B) KERN RIVER personnel must install the leads on KERN RIVER'S pipeline(s) and, if necessary will install the leads on the crossing pipe.
- C) Metallic pipe crossings shall have a permanent protective coating for the full width of the right of way.

12) ABOVE GROUND LINE CROSSINGS

- A) Shall maintain a minimum of 30 feet of vertical clearance across the right of way.
- B) Shall have no poles or appurtenances located on the right of way.
- C) Above ground crossings shall not be above or closer than 25 feet horizontally to any gas escape vent (e.g., relief valve vent, station blow down vent, block valve vent, etc.).

13) BLASTING

- A) Blasting for grade or ditch excavation shall be utilized only after all other reasonable means have been used and are unsuccessful in achieving the required results.
- B) Blasting plans shall be submitted to KERN RIVER for approval at least four days prior to the anticipated start of any blasting activities.
- C) All blasting shall be done with the KERN RIVER authorized representative present.