

General Introduction:

The following guidelines are intended to assist the customer/applicant in understanding the Los Angeles Department of Water and Power (LADWP) procedures and requirements for power distribution facilities relocations due to customers’ projects and for the process to be effective and efficient as possible.

LADWP adheres to California Public Utilities Commission General Orders (GO)s and other regulations as minimum requirements. LADWP’s engineering and construction standards have been developed based on experience, best and safety practices, and lessons learned that supplement the GOs and regulations.

To start the power distribution relocation process, the customer/applicant shall provide at minimum the checklist items on page 3 for LADWP to accept it as a project. LADWP and the customer/applicant may have preliminary discussions/meetings and may hold field visits to determine the scope, feasibility and timeline for the relocation. However, the minimum items are to be submitted by the customer and accepted by LADWP before it’s accepted as a project. The customer/applicant should also understand LA City’s Bureau of Engineering (BOE), Bureau of Street Lighting (BSL), Department of Transportation (DOT), Caltrans, communication companies, and other Agencies procedures for progressing their project since those departments have requirements that can impact the project.

The customer/applicant must ensure that proposed activities occur within legally accessible property boundaries and comply with existing easement restrictions. The customer/applicant is responsible for identifying all current easements, acquiring any new easements or right-of-way needed, and coordinating with affected property owners.

The customer/applicant shall also maintain a project tracker to document progress and key milestones and provide meeting minutes to ensure transparent communication and accurate project recordkeeping.

LADWP will provide Power System as-built drawings upon customer/applicant request.

Construction in Public Right of Way (Public Works):

LADWP Power’s Utility Coordination group can review proposed work for any conflicts with LADWP’s power distribution system (limited from 4.8kV to 34.5kV). Please submit plans to Utility Coordination for review via email at DWPPS.Coordination@ladwp.com.

Construction Near Underground Powerlines or in Proximity to any Utility Easements (Encroachment Application):

If you are planning construction with 10 feet near LADWP power lines and equipment, or in proximity to any utility easements, please contact the LADWP Real Estate Division at (213) 367-0562 to start the process of filing an encroachment application. Please visit LADWP’s Real Estate Page <https://www.ladwp.com/doing-business-ladwp/real-estate> for more information on submitting an encroachment application.

Typical Customer Requests That Trigger Underground Relocations:

1. New development (subway extensions, light rail transit, railroad relocation, railroad expansions, commercial expansions, rail stations, etc.)
2. Street Improvements; examples:
 - a. Change in street elevation
 - b. Change in curb and gutter and/or sidewalk alignment
 - c. Access Ramp
 - d. New driveways
3. Construction activities that may require facilities to be modified. (Deck hanging, pipe encasement, above ground pipe, etc.)
4. Proposed abutments, grade separation, or piles for projects
 - a. Proposed construction within 15' of any LADWP facilities.
5. New Utilities
6. Existing Fiber Conduit Infrastructure

LADWP does not intercept or use existing fiber conduits. Existing fiber conduit infrastructure will be replaced with new duct bank from maintenance hole to maintenance hole.

Underground Requirements to Avoid Relocation:

1. Standpipe and Flush Vents
 - a. Approval of final curb and gutter alignment from BOE and Hwy Dedication Group is required before evaluating any vent location.
 - b. Vents shall be 24 inches behind curb face, 18 inches absolute minimum (See C730-10 Note 3)
 - c. Clear spacing between vents shall target 72 inches, with 48 inches minimum (See C730-10 Note 2)
 - d. Vent location guidelines between other street furniture (traffic signs, bus stops, driveways, ECR/BCR, etc.) (See C730-10 notes 8a-8k)
2. Maintenance Hole/Vault
 - a. Maintenance hole shall be located outside of proposed flowline.
 - b. No false curbs shall be used.
 - c. For changes in street elevations, final cover above roof of maintenance hole or vault shall be between 18 in and 48 in. If the final cover is less than 18 in or greater than 48 inches, a relocation of the maintenance hole or vault will be required.
 - d. Centerline of light rail to centerline of maintenance hole opening shall be a minimum of 11 feet and 2.4 inches (See GO-143B, Section 9.06)
 - e. Existing edge of vault shall have 4 ft minimum horizontal clearance from proposed bus pad.
 - f. Existing edge of vault shall have 30 inches minimum horizontal clearance from proposed track slab (See GO-143B, Section 9.06)
 - g. Customer/applicant shall provide calculations showing that the proposed light rail does not add additional surcharge on the LADWP maintenance hole.

Underground Requirements to Avoid Relocation (cont'd):

- 3. Conduit
 - a. If proposed railroad or transit project (light rail or busway) crosses or parallels existing overhead lines, the overhead system shall be replaced with an underground system. (See C008-01, Note 3)
 - b. For underground systems crossing perpendicular to railroad or transit project right-of-way, dip poles should be located a minimum of the height of the pole away from the railroad or transit project right-of-way (See C008-01, Note 3)
 - c. Conduit duct bank shall have a 42 inches minimum clearance below base of the lowest rail. (See Spec 104, Table 2, Item 6)
 - d. Existing conduit duct bank shall have 2 ft minimum vertical clearance below proposed bus pad
- 4. Pole risers
 - a. Existing LADWP poles may have existing underground conduit risers leading up the pole. If proposed work conflicts with existing poles this would trigger an underground conduit design and relocation.
- 5. Street Furniture
 - a. Street furniture shall be 3 ft minimum horizontal clearance from edge of maintenance hole casting.
- 6. Concrete Island
 - a. The existing lids and castings shall have at least 3 sides clear from the concrete island. The existing lids and castings shall have 48 in minimum horizontal clearance on the other 3 sides.
 - b. If existing lid and casting is completely within the concrete island, then the concrete island shall be designed to support HS-20 vehicle loading to ensure the islands are not damaged when LADWP vehicles drive and/or park for maintenance and operations.

If all these requirements are not met, LADWP reserves the right to require a relocation.

Underground Relocation Checklist

Use the checklist below to compile all Project Documentation needed for LADWP to accept your project and begin preliminary engineering/coordination efforts.

Item		
1.	Job Location	
2.	LADWP Relocation Need by Date(s)	
3.	Target Project Milestone Dates	
4.	Project Description	
5.	Project Contact Person and Contact Information	
6.	Project drawings* that include: <ul style="list-style-type: none"> <input type="checkbox"/> Alignment for LADWP’s proposed relocation(s) <input type="checkbox"/> Pole locations <input type="checkbox"/> Street Improvement plans with minimum of one review with BOE and/or LADOT as applicable <input type="checkbox"/> All conflicts identified <input type="checkbox"/> Identification of easements needed <input type="checkbox"/> Composite utility plans 	
7.	Payment Mechanism	

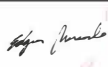
*The following features must be drafted onto the project drawings for ODD to begin any relocation design:

- a. Curb & Gutter
 - i. Proposed alignment must be approved by BOE and/or Highway Dedication Group
- b. Driveways
- c. Curb ramps and landings
- d. Trees and tree wells
- e. Traffic signals, conduits and pullboxes
- f. Street lighting, conduits and pullboxes
- g. Fire hydrants
- h. Metered pedestals, conduits and pullboxes
- i. Proposed landscaped areas
- j. Property lines
- k. Street centerlines
- l. Concrete bus pads
- m. Stationing for all new facilities shown on plan
- n. Elevations and/or profiles whenever relevant

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Revised Date:

Approved by



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C010-04

Underground Design Standards and References:

These standards and references include, but are not limited to, the following:

Relocation Criteria	Design Reference/Standard
Standpipe detail	C730-10 (Standpipe Standard)
Electrical Lines Crossing Railroad, Light Rail, and Busway	C008-01
Minimum Conduit Requirements for Relocations Line Extensions, and Overhead to Underground Conversions	C016-01
Light Rail Transit. Light Rail Side Clearance and Vault Accessibility	GO-143B
Construction of Underground Electric Supply and Communication Systems	GO-128
Overhead Electric Line Construction	GO-95
LADWP’s Rules for Governing Water and Electrical Service	LADWP’s Rules for Governing Water and Electrical Service
LADWP’s Underground Conduit and Substructures Specifications	Spec 104