

Long-Range Planning for Rule 20A Utility Underground Projects

Southern California Edison looks to the cities it serves to prioritize the undergrounding of public utility facilities according to the Rules of the State of California Public Utilities Commission. Currently, Edison is in the process of leading the underground conversion of Spring Street and Seventh Street, and work on both is expected to be completed by 2006. The City of Long Beach must make long-range plans with *at least* a 5-year horizon, and convey these priorities to Edison, in order to see undergrounding conversion move forward at a rate commensurate with available funding.

In August of 2004, Public Works began meeting with Advance Planning, Community Development and the Parks Department to make long-range plans for the utility undergrounding with the use of the public utilities' Rule 20A funds. Our past planning documents and the State's Rule 20A funding criteria were reviewed and physical inspections were made by all four departments in order to identify and prioritize future projects that could possibly be designed and built over the next 10 years.

Southern California Edison gave us a Rule 20A account balance of \$2,311,400 as of June 2, 2004. This amount includes funds allocated for 2004, and is over and above any amounts needed to complete current projects (Spring Street and Seventh Street). Our annual allocation for 2004 was \$2,627,767. We can conservatively expect to receive an allocation of that amount per year through 2014.

During the next ten-year period, we expect to accrue a total of \$28,589,400 (includes our current balance). Our long-range planning should include spending up to at least this amount. We also have the potential to accelerate the undergrounding of utilities by utilizing future funds, subject to Edison's available resources.

The estimated costs of the top ten Rule 20A projects determined by the above-described conversion planning committee are shown on the attached list. The grand total for the top ten projects is \$32,976,000. This list should be finalized and forwarded to Southern California Edison within the next 3 months so that they can move forward with future project planning and design. A more complete listing of major thoroughfares that should be considered for eventual underground conversion is also attached.

City of Long Beach Proposed Rule 20A Estimates

Locations:	Cost Estimates:
1 Willow Street, West City Limit to Atlantic Ave Transmission and Distribution facilities	\$6,800,000
2 Alamitos Avenue, PCH to 7th Street Distribution facilities only.	\$2,700,000
3 Cherry Avenue, Market Ave to Artesia Ave Transmission and Distribution facilities	\$8,900,000
4 Artesia Boulevard, Atlantic to Cherry Distributions facilities only Transmission x-ings "exempt"	\$2,800,000
5 Sante Fe Avenue, PCH to Hill Street Distributions facilities only Transmission x-ings "exempt"	\$1,200,000
La Verne - Spring St Distributions facilities only Transmission x-ings "exempt"	\$1,000,000
34th Street - Wardlow Rd. Distributions facilities only Transmission x-ings "exempt"	\$1,000,000
6 Long Beach Blvd, Country Club Lane - Del Amo Blvd Distributions facilities only Transmission x-ings "exempt"	\$2,100,000
7 Fourth Street, Alamitos - Junipero	
8 Anaheim Street, I Street - 710 Fwy Transmission and Distribution facilities	\$2,800,000
9 Redondo Avenue, Sterns Ave - Willow Ave Transmission and Distribution facilities	\$2,900,000
10 Carson Street, Bellflower - East City Limit Transmission and Distribution facilities	\$9,000,000

RULE 20A SELECTION GUIDELINES

Based on the Rule 20A guidelines, there are three categories to consider in selecting projects for funding: (1) Heavy concentration of overhead electric facilities, (2) Street classification, and (3) Surrounding land use. Other items that are taken into consideration include the age of pavement, planned street improvement work, planned development projects, other planned capital improvements, and equity distribution throughout the City.

The following criteria have been established to ensure that the projects selected satisfy the goals of the program. Streets are analyzed in accordance with the selection criteria and the following point values are assigned to derive an initial prioritized program.

	<u>Criteria</u>	<u>Points</u>
1.	<u>Type of Electrical Facility</u>	
	a. Transmission	20
	b. Distribution	15
2.	<u>Street Classification</u>	
	a. Regional Corridor	20
	b. Major Arterial	15
	c. Minor Arterial	10
	d. Collector Street	5
3.	<u>Land Use</u>	
	a. Commercial	20
	b. Park/Recreational	15
	c. Residential	10
4.	Future or Recent CIP Project, Redevelopment Project, NIS, etc.	
5.	Equity Distribution throughout the City	

A review of related capital improvements is then conducted to further refine the program. Streets with recent improvements are given a lower priority while streets with aged pavement or major projects scheduled in the near future are assigned a higher priority. Finally, a balanced City program is developed as a recommended undergrounding program.

The City's recommended Rule 20A program which results from the above analysis is not static, but serves as a guideline with which to make informed decisions. The Rule 20A Steering Committee meets annually and is comprised of representatives from Public Works, Planning and Building, Redevelopment, Telecommunications, Southern California Edison, General Telephone, and Charter Communications.

TOP 10 RULE 20A UTILITY UNDERGROUNDING PROJECTS

Created November 2004

- 1) **WILLOW STREET** - west city limit to Atlantic Avenue
- 2) **ALAMITOS AVENUE** - 7th St to Pacific Coast Highway
- 3) **CHERRY AVENUE** - Market Street to Artesia Boulevard
- 4) **ARTESIA AVENUE** - Atlantic Avenue to Cherry Avenue
- 5) **SANTE FE AVENUE** - Pacific Coast Highway to Hill Street/ La Ver Drive to Spring Street/ 34th Street to Wardlow Road
- 6) **LONG BEACH BOULEVARD** - 48th Street to Del Amo Boulevard
- 7) **FOURTH STREET** - Alamitos Avenue to Junipero Avenue
- 8) **ANAHEIM STREET** - West City Limit to the I-710 Freeway
- 9) **REDONDO AVENUE** - Stearns Street to Willow Street
- 10) **CARSON STREET**, Bellflower to East city limit

TOP TEN PROJECT DETAILS

WILLOW STREET, west city limits to Atlantic Avenue - very high density wires, very dense commercial land use, high traffic volumes (25,000 - 30,000 ADT), great visual improvement possible, Blue Line Station at LBB, due to be repaved

ALAMITOS AVENUE, 7th St to Pacific Coast Highway - very high density wires, great visual improvement possible, ADA conflicts to be remedied, dense commercial and residential land use, Lincoln School (J12); however, low traffic volumes (10,000 - 15,000 ADT)

CHERRY AVENUE, Market Street to Artesia Boulevard - very high density wire, dense commercial land use, very high traffic volumes (30,000 - 35,000 ADT), great visual improvement possible

ARTESIA AVENUE, Atlantic Avenue to Cherry Avenue - high density wires, very dense commercial land use, great visual improvement possible, Jordan High School, mid-range traffic volumes (20,000 - 25,000 ADT)

SANTE FE AVENUE

- PCH to Hill: Very high density wires, very dense commercial land use, great visual improvement possible, Admiral Kidd Park, Cabrillo High School, new police station; however, low traffic volumes (10,000 - 15,000 ADT) and was recently repaved
- La Ver to Spring: Very high density wires, very dense commercial and residential land use, great visual improvement possible, mid range traffic volumes (20,000 - 25,000 ADT), Stephens School (E20); however, was recently repaved
- 34th to Wardlow : Very high density wires, dense commercial and residential land use, great visual improvement possible, mid-range traffic volumes (20,000 - 25,000 ADT)

LONG BEACH BOULEVARD, 48th Street to Del Amo Boulevard - High traffic volumes (20,000 - 25,000 ADT), many ADA conflicts to be remedied, dense commercial land use, much visual improvement possible but only moderate wire density

FOURTH STREET, Alamos Avenue to Junipero Avenue - high density distribution wires, very dense commercial land use, many ADA conflicts to be remedied, much visual improvement possible, Burbank School (L10); low vehicular traffic volumes (10,000 - 15,000 ADT) but important pedestrian corridor.

ANAHEIM STREET, west city limit to the I-710 Freeway - High density wires, dense commercial land use, very high traffic volumes (30,000 - 35,000 ADT), much visual improvement possible, some ADA conflicts to be remedied

REDONDO AVENUE, Stearns Street to Willow Street - very high density wires, very high traffic volumes (30,000 - 35,000 ADT), lower density commercial land use, significant visual impact

CARSON STREET, Bellflower Boulevard to east city limit - High wire density, very high traffic volumes (30,000 - 35,000 ADT), much visual improvement possible, low density land use including Heartwell Park

"B" BAND PROJECTS

ARTESIA BOULEVARD, Cherry Avenue to east city limit - very high wire density, mid-range traffic volumes (20,000 - 25,000 ADT), west of Paramount is industrial, east of Paramount is low density residential; significant visual improvement possible

ATHERTON STREET, Traffic Circle to Bellflower Boulevard - high density wires, much visual improvement possible, low density residential land use including Atherton Park, mid-range traffic volumes (20,000 - 25,000 ADT)

BROADWAY, Alamos Avenue to Junipero Avenue - very dense commercial land use, high density wires, much visual improvement possible, ADA conflicts to be remedied, lower traffic volumes (15,000 - 20,000 ADT) but important pedestrian corridor including Bixby Park

BROADWAY, Redondo Avenue to Rosswell Avenue - very dense commercial land use, high wire density, much visual improvement possible, low traffic volumes (10,000 - 15,000 ADT)

CHERRY AVENUE, Bixby Street to Carson Street - moderate wire density, highest traffic volumes (40,000 - 45,000 ADT), commercial land use on east side, low density residential on west side, much visual improvement possible

CHERRY AVENUE, Carson Street to San Antonio Drive - high density wires, very high traffic volumes (25,000 - 30,000 ADT), much visual improvement possible, low density land use, Cherry Avenue Park and Forest Lawn Memorial Park at San Antonio Drive

CHERRY AVENUE, Artesia Boulevard to north city limit - very high wire density, great visual improvement possible, mid range traffic volumes (20,000 - 25,000 ADT), all industrial property

CLARK AVENUE, Conant Street to north city limit - high density wires, high traffic volumes (30,000 - 35,000 ADT); much visual improvement possible, low density land uses including City College, Heartwell Park, and Mark Twain School

DEL AMO BOULEVARD, Atlantic Avenue to East city limit - high density wires, many ADA conflicts to be remedied, high traffic volumes (30,000 - 35,000 ADT), low density land use including Barton School, only modest visual improvement possible

LAKESWOOD BOULEVARD, Stearns Street to Willow Street - high wire density, very high traffic volumes (30,000 - 35,000 ADT), modest visual improvement possible, low density commercial and residential land use

LOS COYOTES, Parkcrest Street to Carson Street - high density wires, much visual improvement possible, this very short section runs between Heartwell Park on the west and Cecil B. DeMille School on the east; lower traffic volumes (15,000 - 20,000 ADT)

MARKET STREET, Atlantic Avenue to Cherry Avenue - high density wires, much visual improvement possible, high density commercial land use including Lindberg School, low traffic volumes (15,000 ADT and under)

ORANGE AVENUE, Wardlow Road to north city limit - very high density wires, great visual improvement possible, a few ADA conflicts to be remedied; however, low density land use and low traffic volumes (10,000 - 15,000 ADT)

PACIFIC COAST HIGHWAY, Junipero Avenue to Loma Avenue - moderate density wires but much visual improvement possible, dense commercial land use, many ADA conflicts to be remedied, very high traffic volumes (30,000 - 35,000 ADT); aerial wires on north side of street in Signal Hill*

PARAMOUNT BOULEVARD, Market Street to north city limit - high density wire, much visual improvement possible, high traffic volumes (25,000 - 30,000 ADT), industrial and high density residential land use including McKinley Elementary School

REDONDO AVENUE, 15th to 17th Streets - very high wire density, high traffic volumes (20,000 - 25,000 ADT), much visual improvement possible, moderate density commercial and residential land use

SOUTH AVENUE, Atlantic Avenue to Cherry Avenue - high density wires, much visual improvement possible, dense commercial land use; however, lower traffic volumes (15,000 - 20,000 ADT)

SPRING STREET, Magnolia Avenue to Long Beach Boulevard - high density wires, much visual improvement possible, many ADA conflicts to be resolved; low traffic volumes, lower density land use including commercial

SPRING STREET, Bellflower Boulevard to Studebaker Road - high wire density, very high traffic volumes (30,000 - 35,000 ADT), much visual improvement possible, some ADA conflicts to be remedied, low density residential land use

SPRING STREET, Studebaker Road to east city limit - high density wires, much visual improvement possible and a few ADA conflicts to be remedied; however, very low density land use including El Dorado Park, low traffic volume (15,000 - 20,000 ADT)

STEARNS STREET, Bellflower Boulevard to Los Coyotes Diagonal - high density wires, much visual improvement possible, mid-range traffic volumes (20,000 - 25,000 ADT), low density land use but adjacent to Florence Bixby School and Los Altos Park

TENTH STREET, Maine Avenue to Federation Street in Recreation Park - high wire density with great visual improvement possible, many ADA conflicts to be remedied, dense urban land use including Drake Park (adjacent), Willard School, Wilson High School and Recreation Park, lower traffic volumes (10,000 - 20,000 ADT)

THIRD STREET, Alamitos Avenue to Park Avenue - moderate wire density, mid-density residential land use including Mann School, very low traffic volume (under 10,000 ADT), much visual improvement possible

XIMENO AVENUE, Colorado Street to 7th Street - high density wires, mixed high density commercial and residential land use, much visual improvement possible, low traffic volumes (10,000 - 15,000 ADT)

XIMENO AVENUE, 10th Street to Ransom Street - high density wires (2), mid-range traffic volumes (20,000 - 25,000 ADT), much visual improvement possible, Wilson High School adjacent, mid-density land use

"C" BAND PROJECTS

ARTESIA BOULEVARD, west city limit to Long Beach Boulevard - moderate wire density, only modest visual improvement possible, mid-range to high traffic volumes (25,000 ADT and under, decreasing to the west city limit), low density land use including King Elementary School

ARTESIA BOULEVARD, Cherry to East city limit - very high wire density, mid-range traffic volumes (20,000 - 25,000 ADT), west of Paramount is industrial, east of Paramount is low density residential; only modest visual improvement possible

ATHERTON STREET, Bellflower Boulevard to Studebaker Road - low wire density, low density residential land use including Whaley Park and Cal State University, very modest visual improvement possible, a few ADA conflicts to be remedied, mid range traffic volumes west of Palo Verde and lower traffic volumes east of Palo Verde (20,000 - 25,000 vs 10,000 to 15,000)

ATLANTIC AVENUE, Willow Street to the 405 Freeway - low density wires, moderately dense commercial land use (Memorial Hospital and medical offices) south of Spring

Street, undeveloped north of Spring Street, very high traffic volumes (25,000 - 30,000 ADT), a few ADA conflicts to be remedied, much visual improvement possible south of Spring Street

ATLANTIC AVENUE, Del Amo Boulevard to 52nd Street - moderate wire density, very high traffic volumes (25,000 - 30,000 ADT), a few ADA conflicts to be remedied, low density residential land use except adjacent to Atlantic Plaza, only modest visual improvement possible, just north of Scherer Park

BELLFLOWER BOULEVARD, Conant street to the north city limit - high density wires, high traffic volumes (20,000 - 25,000 ADT), significant ADA conflicts to be remedied south of Carson Street, mostly low density residential land use except for intersection with Carson Street, only modest visual improvement possible

BROADWAY, Junipero Avenue to Redondo Avenue - moderate wire density, little visual improvement to be made, low density land use, lower traffic volumes (10,000 - 15,000 ADT)

BROADWAY, Roswell Avenue to Nieto Avenue - moderate wire density, modest visual improvement possible, very low density land use including Lowell School, very low traffic volumes (under 10,000 ADT)

CARSON STREET, Orange Avenue to Cherry Avenue - high density wires, very high traffic volumes (25,000 - 30,000 ADT), significant ADA conflicts to be remedied, moderate density residential land use, only modest visual improvement possible

CHERRY AVENUE, 405 Freeway to Bixby Road - low density wires, very little visual improvement possible, very high traffic volumes (35,000 - 40,000 ADT), mixed low density industrial and residential land use

CLARK AVENUE, Anaheim Street to Willow Street - moderate density wires, lower traffic volumes (15,000 - 20,000 ADT); very mixed land use, including commercial and high and low density residential; only modest visual improvement possible

DEL AMO, west city limit to Long Beach Blvd - moderate density wires, very high traffic volumes (30,000 - 35,000 ADT), many ADA conflicts to be remedied, only modest visual improvement in an area with low-density land use including Sutter School and the Blue Line Station

FOURTH STREET, Junipero Avenue to Park Avenue - high density wires, commercial and residential land use, low traffic volumes (10,000 - 15,000 ADT), modest visual improvement possible

LOS COYOTES DRIVE, Traffic Circle to Spring Street - South of Stearns wire density is high, north of Stearns, wire density is low; high traffic volume throughout (25,000 - 30,000 ADT), low density land use, only modest visual improvement possible

NORWALK BOULEVARD (entire section in City of Long Beach) - high density wire, much visual improvement possible, ADA conflicts to be remedied, high traffic volumes (20,000 - 25,000 ADT), low density residential housing faces away from the thoroughfare

SAN ANTONIO DRIVE, Orange Avenue to Cherry Avenue - moderate density wire, only modest visual improvement possible, very low traffic volumes (under 10,000 ADT), low density residential except for Forest Lawn Memorial Park

SECOND STREET, Pacific Coast Highway to Studebaker Road - very high traffic volumes (30,000 - 35,000 ADT), through scenic wetlands; however, wire density not high, undeveloped land on the north side of the street, and county repaved recently

STUDEBAKER ROAD, 2nd Street to Anaheim Street - high density wires, very high traffic volumes (25,000 - 30,000 ADT), along the Los Cerritos Channel and open space/industrial land use, only modest visual improvement possible

STUDEBAKER ROAD, Parkcrest Street to Spring Street - low density wires, low density residential land use, very low traffic volume (under 10,000 ADT), only modest visual improvement possible

WOODRUFF AVENUE, 405 Freeway to Carson Street - moderate density wires, low density land use including Marshall School and Heartwell Park, lower traffic volume (20,000 ADT and under), modest visual improvement possible

SC: Nov 2004

Robert E. Shannon
City Attorney of Long Beach
333 West Ocean Boulevard
Long Beach, California 90802-4664
Telephone (562) 570-2200

1 RESOLUTION NO.
2

3 A RESOLUTION OF THE CITY COUNCIL OF THE
4 CITY OF LONG BEACH ESTABLISHING AN
5 UNDERGROUND UTILITY DISTRICT ON WILLOW
6 STREET FROM THE WESTERLY CITY LIMITS TO
7 ATLANTIC AVENUE
8

9 WHEREAS, a public hearing was called for _____, 2006,
10 at the hour of 5:00 p.m., in the Council Chambers on the Plaza Level of the City Hall, 333
11 West Ocean Boulevard, in the City of Long Beach, County of Los Angeles, State of
12 California, to ascertain whether it is in the general public interest to replace utility poles,
13 overhead wires and associated structures with the underground installation of wires and
14 facilities used for supplying electric, communication, or similar or associated service on
15 Willow Street from the westerly city limits to Atlantic Avenue; and

16 WHEREAS, notice of such hearing has been given to all affected property
17 owners, as shown on the last equalized assessment roll and utilities concerned in the
18 manner and for the time required by law; and

19 WHEREAS, such hearing has been duly and regularly held and all persons
20 interested have been given an opportunity to be heard;

21 NOW, THEREFORE, the City Council of the City of Long Beach resolves
22 as follows:

23 Section 1. The City Council hereby finds and determines that it is in the
24 general public interest to replace utility poles, overhead wires and associated structures,
25 with the underground installation of wires and facilities used for supplying electric,
26 communication, or similar or associated service on Willow Street from the westerly city
27 limits to Atlantic Avenue and hereby establishes it as Underground Utility District No. 40.

28 Sec. 2. All poles, overhead wires and associated overhead structures shall

Robert E. Shannon
City Attorney of Long Beach
333 West Ocean Boulevard
Long Beach, California 90802-4664
Telephone (562) 570-2200

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be removed and underground installations made in said underground utility district within the following times:

(a) Underground installation by utility companies and reconnections not later than December 30, 2010, and

(b) Removal of poles, overhead wires and other associated overhead structures not later than December 30, 2010.

Sec. 3. The utility companies shall pay all costs to provide no more than 100 feet of the property owner's underground service lateral, and to provide certain facility changes pursuant to Section 15.48.090 of the municipal code.

Sec. 4. The City Clerk is hereby directed to mail a copy of this resolution to all affected utilities and all persons owning real property within the district within ten days after adoption of this resolution.

Sec. 5. This resolution shall take effect immediately upon its adoption by the City Council, and the City Clerk shall certify the vote adopting this resolution.

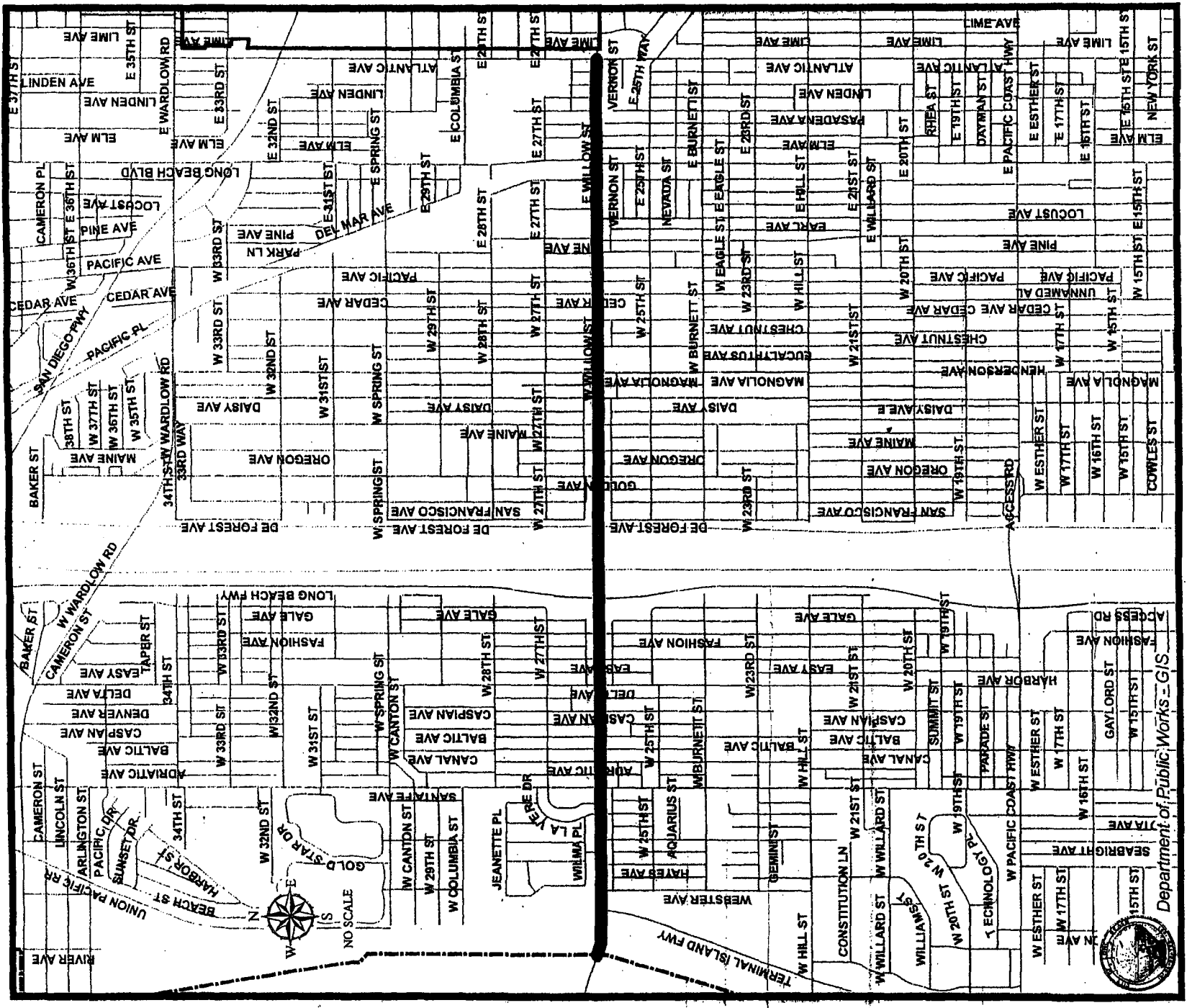
I hereby certify that the foregoing resolution was adopted by the City Council of the City of Long Beach at its meeting of _____, 2006, by the following vote:

Ayes: Councilmembers: _____

Noes: Councilmembers: _____

Absent: Councilmembers: _____

City Clerk



UNDERGROUND UTILITY DISTRICT #40
WILLOW ST
WESTERLY CITY BOUNDARY TO ATLANTIC AVE

Robert E. Shannon
City Attorney of Long Beach
333 West Ocean Boulevard
Long Beach, California 90802-4664
Telephone (562) 570-2200

RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE
CITY OF LONG BEACH ESTABLISHING AN
UNDERGROUND UTILITY DISTRICT ON ALAMITOS
AVENUE FROM FOURTH STREET TO SEVENTH STREET

WHEREAS, a public hearing was called for _____, 2006,
at the hour of 5:00 p.m., in the Council Chambers on the Plaza Level of the City Hall, 333
West Ocean Boulevard, in the City of Long Beach, County of Los Angeles, State of
California, to ascertain whether it is in the general public interest to replace utility poles,
overhead wires and associated structures with the underground installation of wires and
facilities used for supplying electric, communication, or similar or associated service on
Alamitos Avenue from Fourth Street to Seventh Street; and

WHEREAS, notice of such hearing has been given to all affected property
owners, as shown on the last equalized assessment roll and utilities concerned in the
manner and for the time required by law; and

WHEREAS, such hearing has been duly and regularly held and all persons
interested have been given an opportunity to be heard;

NOW, THEREFORE, the City Council of the City of Long Beach resolves
as follows:

Section 1. The City Council hereby finds and determines that it is in the
general public interest to replace utility poles, overhead wires and associated structures,
with the underground installation of wires and facilities used for supplying electric,
communication, or similar or associated service on Alamitos Avenue from Fourth Street
to Seventh Street and hereby establishes it as Underground Utility District No. 41.

Sec. 2. All poles, overhead wires and associated overhead structures shall
be removed and underground installations made in said underground utility district within

Robert E. Shannon
City Attorney of Long Beach
333 West Ocean Boulevard
Long Beach, California 90802-4664
Telephone (562) 570-2200

1 the following times:

2 (a) Underground installation by utility companies and reconnections not
3 later than December 30, 2010, and

4 (b) Removal of poles, overhead wires and other associated overhead
5 structures not later than December 30, 2010.

6 Sec. 3. The utility companies shall pay all costs to provide no more than
7 100 feet of the property owner's underground service lateral, and to provide certain
8 facility changes authorized under Section 15.48.090 of the municipal code.

9 Sec. 4. The City Clerk is hereby directed to mail a copy of this resolution
10 to all affected utilities and all persons owning real property within the district within ten
11 days after adoption of this resolution.

12 Sec. 5. This resolution shall take effect immediately upon its adoption by
13 the City Council, and the City Clerk shall certify the vote adopting this resolution.

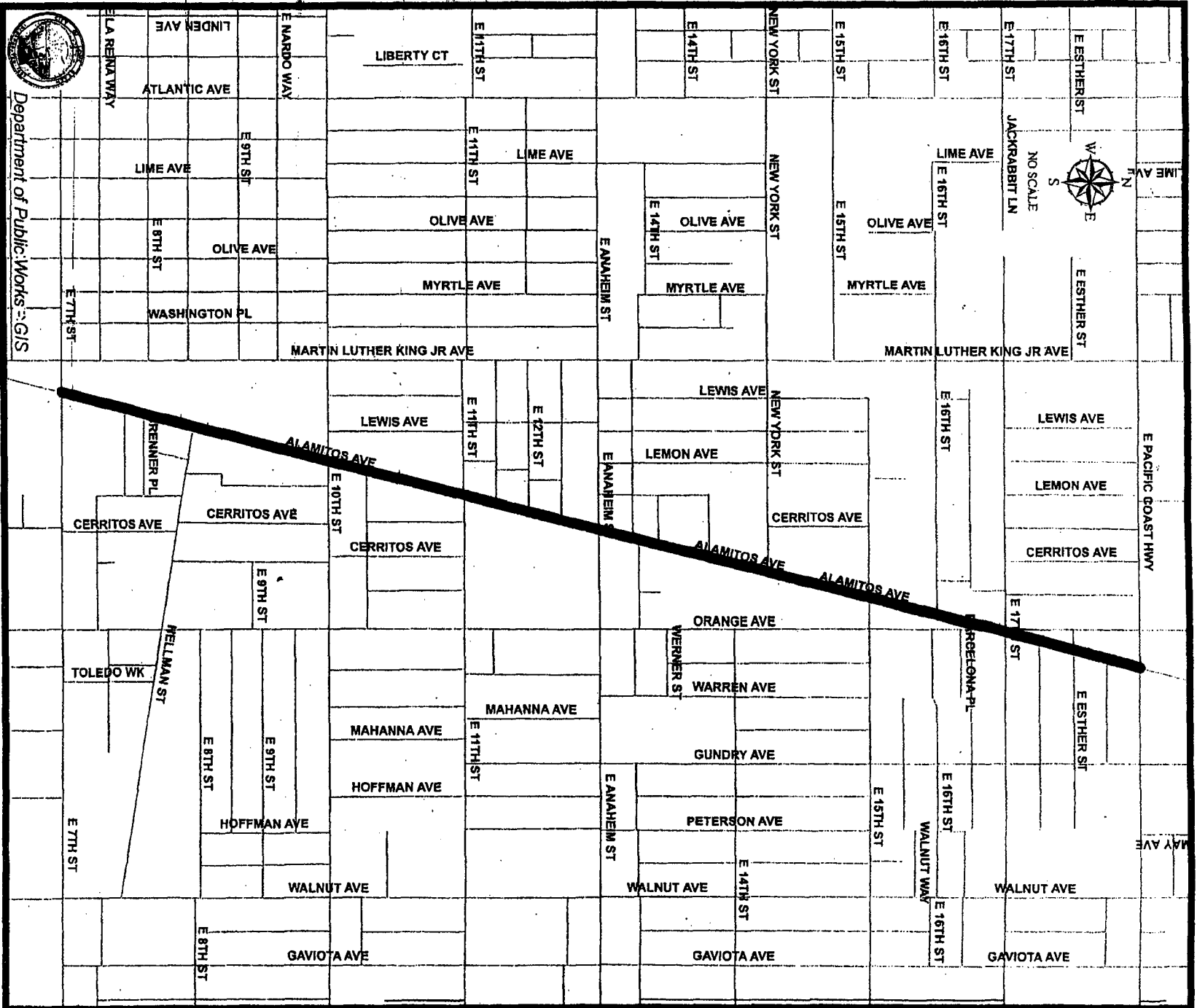
14 I hereby certify that the foregoing resolution was adopted by the City
15 Council of the City of Long Beach at its meeting of _____, 2006, by
16 the following vote:

17 Ayes: Councilmembers: _____
18 _____
19 _____
20 _____

21 Noes: Councilmembers: _____
22 _____

23 Absent: Councilmembers: _____
24 _____

25 _____
26 _____
27 City Clerk



Department of Public Works - GIS



UNDERGROUND UTILITY DISTRICT #41
ALAMITOS AVE
7TH ST TO PACIFIC COAST HWY