



Office of the City Clerk

City Hall
121 N. LaSalle St.
Room 107
Chicago, IL 60602
www.chicityclerk.com

Legislation Details (With Text)

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In control: City Council
Final action: 6/8/2011
Title: Proposed Antenna Collocations/Chicago Distributed Antenna System Network Phase 1
Sponsors: Dept./Agency
Indexes: Public Utilities
Attachments: 1. F2011-129.pdf

Date	Ver.	Action By	Action	Result
6/8/2011	1	City Council	Placed on File	

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Companies

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 9, 2011

Miguel Del Valle Chicago City Clerk City Hall Office
121 North LaSalle Street, Room 107 Chicago, Illinois 60602

RE: Invitation to Comment Under Section 106: Proposed Antenna Collocations Chicago Distributed Antenna System (DAS) Network - Phase I City of Chicago, Cook County, Illinois BL Project No. 11L2705

Dear Mr. Del Valle:

At the request of AT&T Mobility, LLC (AT&T), BL Companies is preparing a Federal Communications Commission (FCC) National Environmental Policy Act (NEPA) study for the Chicago Distributed Antenna System (DAS) network referenced above. This action is submitted for review pursuant to the Nationwide Programmatic Agreement for the Collocation of Wireless Antennas executed by the FCC effective March 7, 2005, the National Conference of State Historic Preservation Officers (NCSHPO), and the Advisory Council on Historic Preservation (ACHP).

AT&T Mobility, LLC is proposing to install 22 antennas at an average tip height of 34 feet on existing street light poles. The telecommunication collocation nodes are being located on existing street light poles located within an urban setting. The existing poles are located within the city of Chicago, Cook County, Illinois. Of the 22 total nodes in the network, seven of the nodes fall within, or within 250 feet of, or are visible from the ground level of a historic district and four of the nodes are adjacent to individually listed or eligible historic resources. The undertaking is limited to the collocation of an antenna, equipment cabinets and associated wiring on existing street light poles. The action does not involve an increase in the height of the existing pole. Minimal ground disturbance at the base of the street light poles will occur per City ordinance to accommodate the telecommunications conduit to be completed by the public utility.

4242 Carlisle Pike Suite 260 Camp Hill, Pennsylvania 17011 Tel. (717) 651-9850 Fax (717) 651-9858
Architecture ■ Engineering ■ Planning ■ Landscape Architecture ■ Land Surveying ■ Environmental Sciences BL Companies Pennsylvania, Inc. ■ Mark S. Koellner, PG ■ Michael A. Lozanoff, PE ■ Rainer A. Muhlbauer, AIA ■ Stanley C. Novak, PE ■ John R. Thatcher, PG

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The attached spreadsheet contains a list of all 22 street light pole node numbers and street locations,

as well as their geographic coordinates. The map depicts their locations.
 If you have any comments, we would appreciate receiving them within 30 days. If you have any questions, or need any further assistance or information, please do not hesitate to contact me.
Respectfully, BL Companies
 Gretchen E. Yarnall Senior Project Manager

Enclosure

Blue Nodes - Exempt
Green Nodes ~ Within 250-feet of a Historic District
 ¥<i§9» (teste= l^mmfi to m \nM^m &m&m® ' ; Red Node - In a Historic District

Copyright (C) 1997, Mappedi, Inc.
 (1) EXISTING OMNI ANTENNA 57"Hx1.9'O.D.

EXISTING POLE ELEVATION
 SCALE: 3/16"= 1'-0"

c 05/02/11 ISSUED FOR REVIEW EW RG RC
 B 03/25/11 ISSUED FOR REVIEW EW RG RG
 A 03/02/11 ISSUED FOR REVIEW EW RG RG
 HO.DATE REVISDMS BY CHK

SCALE: AS SHOWN
 DESIGNED BY:
 DRAWN BY:
Apex Engineers, Inc.
 Structural 6c Civil Engineers 500 East 22nd Street, Suite Lombard, Illinois 60148 Ph. (630) 627-1800 Fax. (630) 627-1165
 APEX JOB No. AT11-001/12
 STATE ST & CHICAGO AVE SITE NO. NODE 3
 M STATE ST 4 E CHICAGO AVE CHICAGO, IL 50611

at&t

AT&T MOBILITY
 EXISTING POLE ELEVATION & PICTURE
 II 117 T SIZE

Number	Name	Approx. Longitude	Approx. Latitude	Intersection	TCNS#	Type of Mounting
<i>min</i>	<i>mm</i>	<i>mmms</i>		<i>mmmmmmmmmm&s</i>	<i>mmm</i>	
<i>m 2</i>		<i>m,</i>				
	IL4403	87-37-40.8	41-53-48.4	STATE AND CHICAGO	73238	Street Light Pole with Traffic Signal Arm
3	IL4405	87-37-27.4	41-53-59.6	901 NORTH MICHIGAN AVE	73240	Street Light Pole
4	IL4414	87-37-46.9	41-53-21.6	DEARBORN AND KINZIE	73243	Street Light Pole with Traffic Signal Arm
	811:4415*87-37,J33:0)^ 4i"i52'23'6j-l'ti3.' wabash?and;balbo . sf^v^SJaif !73244;«il					
	<i>wmmm</i>	<i>mmmm</i>			<i>mmm zmmmMmmmmmsm</i>	
	<i>m</i>				<i>m</i>	
7	IL4426	87-37-53.2	41-54-01.6	CLARK AND OAK	73246	Street Light Pole with Traffic Signal Arm
	ai.L*4<t31	87,j38-18~!	4E5A-3915		.7324	
	S	5Sfe		E^Dr^LiAND;HARRISON^^f^S^*«iat	732S8«g8jj	
		87i37.47;IW				
		825371587688			i7«3249ME StreeEQigntjRoieTwilh^	
		8				
	fi?C4453g			DaRBORN»ANP!!SIpNR0E^^f^g#»^	«53250aSS	

Nodes within 250-feet of historic districts Node adjacent to individually listed resource Nodes within historic districts
 .8tL44041

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 Bre444-^
 8737.'37,'<H
 87/37W6g

87.<3iir0^
87j38gff3i
87i38,1^K9l
87j37*57^4g
4g53*41^4j
41*53.36*2l
41,53*27<^
4i,53^27 9%
4i,53^223^5
87j38T0?9lkl 41 53.48'Oljgil
TK53^
41^14 0
4f
41 52SS»2a
41 53 04^5«W

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IS^il^Nodes exempt from Section 106 Review
AT&T Proprietary (Internal Use Only)
Not for use or disclosure outside the AT&T companies except under written agreement
REINSTALL EXISTING STREET LAMP
PROPOSED TSI XUP3-15DD-7D70
W/ 4 BATTERIES r (28"Hx13.5"Wx15.75"D) \

PROPOSED KATHREIN 84010510 ATiCT ANTENNA (24"Hx16"DIA)
1.75" HOLE 1.25" GALV. NIPPLE -LOCKWASHER. 1 PLASTIC BUSHING 1-BAND AND 1-STAND OFF FOR ELECTRIC DISCONNECT
2" HOLE FOR FIBER -
PROPOSED ADC FLEXWAVE - PRISM QUAD-BAND CABINET (52.4"Hx12.2"Wx11.2"D)

fl>f
PROPOSED EATON - CUTLER - HAMMER BR24L70RP DISCONNECT (9.44"Hx4.5"Wx3"D)
PROPOSED OPTICAL DEMARCATION CLOSURE OptiNID OPN-500 BY " AFL TELECOMMUNICATIONS (6.3"Hx7.8"Wx2.0"D)
REINSTALL MONOTUBE MAST ARM W/ (2) 3-SECTION " TRAFFIC SIGNAL HEAD AND (1) STREET NAME SIGN
REINSTALL (1) - 3-SECTION TRAFFIC SIGNAL
REINSTALL (2) - PEDESTRIAN WALK SIGNAL 15"X15"
REPLACE EXISTING W/ NEW POLE #B24 - SHAFT - 3 GA LENGTH - 34'-6" BASE DIA - 11"

PROPOSED KATHREIN B4010510 AT&T ANTENNA (24"Hx16"DIA)
REINSTALL MONOTUBE MAST ARM W/ (2) 3-SECTION " TRAFFIC SIGNAL HEAD AND (1) STREET NAME SIGN
PROPOSED ADC FLEXWAVE PRISM QUAD-BAND CABINET -(52.4"Hx12.2"Wx11.2"D)
PROPOSED EATON CUTLER-HAMMER BR24L70RP DISCONNECT (9.44"Hx4.5"Wx3"D)
PROPOSED OPTICAL DEMARCATION CLOSURE OptiNID OPN-500 BY AFL TELECOMMUNICATIONS (6.3"Hx7.8"Wx2.0"D)

MANUF.	EQUIPMENT	LENGTH (IN)	WIDTH (IN)	DEPTH (IN)	CUBIC (IN)	CUBIC (FT)	WEIGHT (LBS)	SINGLE NODE VOL. (CU FT)	SINGLE NODE WEIGHT (LBS)
ADC	PRISM QUAD BAND	52.4	12.2	11.2	7160	3.4	1BB	3.4	1BB.DD
TSI	XUPs-1500-7070 W/4 BAT	28	13.5	15.75	5953	3.45	19D	3.45	190.00
AFI	OPTICAL DEMARC	6.3	7.8	2	9B	0.06	2	0.06	2. DO
CH	DISCONNECT BOX	9.44	4.5	3	218	0.07	5.5	0.07	5.50
KATHREIN	ANTENNA	24	16		4826	2.793	45		45.00
TOTAL								6.98	430.50

0

SOUTH POLE ELEVATION

SCALE: 3/16"=1'-0"

REINSTALL (1) - 3-SECTION TRAFFIC SIGNAL
REINSTALL (2) - PEDESTRIAN WALK SIGNAL 15"X15"
REINSTALL TRAFFIC " CONTROL SOX
REPLACE EXISTING W/ NEW POLE #824 - SHAFT - 3 GA LENGTH - 34'-6" BASE DIA - 11"

WEST POLE ELEVATION

SCALE: 3/16"=1'-0"

Apex Engineers, Inc.
Structural 3c Civil Engineers 500 East 22nd Street, Suite B Lombard, Illinois 60148 Ph. (630) 627-1B00 Fax. (630) 627-1165
APEX JOB No. AT11-001/12
STATE ST & CHICAGO AVE SITE NO. NODE 3
N STATE ST & E CHICAGO AVE CHICAGO, IL 6D611

at&t
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ISSUED FOR REVIEW
ISSUED FOR REVIEW
ISSUED FOR REVIEW
EW RG HG
BY CHK199p
AT&T MOBILITY
NEW POLE ELEVATIONS
II i I? D SEE
(1) EXISTING OMNI ANTENNA 57"Hx1.9"D.D.

(4) EXISTING DIVERSITY PANEL ANTENNA 30.4"Hx6.8"Wx3.5"D

(I) EXISTING WODE BOX A 23"Hx1B"Wx17"D
(J) EXISTING BREAKER/FIBER SPLICE BOX 8"HxB"Wx8"D
(1) EXISTING NODE BOX B 23"Hx1B"Wx17"D
REPLACE EXISTING AT&T EQUIPMENT AND ANTENNA ON LIGHT POLE WITH NEW AT&T EQUIPMENT AND ANTENNA
EXISTING
PEDESTRIAN SIGN
EXISTING 24"x1B" ARROW SIGN
EXIST LIGHT POLE § SHAFT - 3 GA LENGTH - 34'-S" BASE DIA - 10'
Apex Engineers, Inc.
Structural St. Civil Engineers 500 East 22nd Street, Suite 1 Lombard, Illinois 60148 Ph. (630) 627-1800 Fax. (630) 627-1165
APEX JOB No. AT11-06T7T

&
EXISTING POLE ELEVATION

SCALE: 3/16"=1'-0"
LAKE SHORE DR & CEDAR ST SITE NO. NODE 1
N LAKE SHORE DR 4c E CEDAR ST CHICAGO, IL 60611

REINSTALL EXISTING STREET LAMP -
PROPOSED TSI XUPs-15D0-707D W/ 4 BATTERIES -(2B"Hx13.5"Wx15.75"D)

PROPOSED KATHREIN B4D10510 AT&T ANTENNA (24"Hx1B"DIA)
USE EXISTING HOLES OR ADD 1.75" HOLE, 1.25" GALV. NIPPLE
2-LOCKWASHER, 1 PLASTIC BUSHING -1 -BAND AND 1-STAND OFF FOR
ELECTRIC DISCONNECT AS REQUIRED
USE EXISTING HOLE OR ADD _ 2" HOLE FOR FIBER AS REQUIRED

PROPOSED ADC FLEXWAVE PRISM QUAD-BAND CABINET (52.4"Hx12.2"Wx11.2"D)
PROPOSED EATON - CUTLER-HAMMER BR24L7DRP DISCONNECT (9.44"Hx4.5"Wx3"D)
PROPOSED OPTICAL DEMARCATION CLOSURE OptiNID OPN-500 BY " AFL TELECOMMUNICATIONS (6.3"Hx7.8"Wx2.0"D)
EXISTING 11 "X1B" DOG TRASH SIGN
EXIST LIGHT POLE § SHAFT - 3 GA " LENGTH - 34'-6" BASE DIA - 10"

MANUF.	EQUIPMENT	LENGTH (IN)	WIDTH (IN)	DEPTH (IN)	CUBIC (IN)	CUBIC (FT)	WEIGHT (LBS)	SINGLE NODE VOL. (CU FT)	SINGLE NODE WEIGHT (LBS)
ADC	PRISM QUAD BAND	52.4	12.2	11.2	7160	3.4	1BB	3.4	1BB.00
TSI	XUPs-1500-7070 W/4 BAT	2B	13.5	15.75	5953	3.45	190	3.45	190.00
AFI	OPTICAL DEMARC	6.3	7.8	2	98	0.06	2	0.06	2. DO
CH	DISCONNECT BOX	9.44	4.5	3	218	0.07	5.5	0.07	5.50
KATHREIN	ANTFNNA	24	IS		4B26	2.793	45		45.00
TOTAL								5.98	430.50

&
EAST POLE ELEVATION

SCALE: 3/16"=1'-0"
PROPOSED KATHREIN 84010510 AT&T ANTENNA (24"Hx1B"DIA)
PROPOSED ADC FLEXWAVE PRISM QUAD-BAND CABINET (52.4"Hx12.2"Wx11.2"D)
PROPOSED EATON
CUTLER-HAMMER BR24L70RP
DISCONNECT (9.44"Hx4.5"Wx3"D)
PROPOSED OPTICAL DEMARCATION CLOSURE OptiNID OPN-500 BY AFL TELECOMMUNICATIONS (6.3"Hx7.8"Wx2.0"D)
EXISTING 11MB" DOG TRASH SIGN
EXIST LIGHT POLE § SHAFT - 3 GA LENGTH - 34'-6" BASE DIA - 10"

NORTH POLE ELEVATION

SCALE: 3/16"=1'-0"
Apex Engineers, Inc.
Structural & Civil Engineers 500 East 22nd Street, Suite B Lombard, Illinois 60148 Ph. (630) 627-1800 Fax. (630) 627-1165 APEX JOB No. ATU-00yi
LAKE SHORE DR & CEDAR ST SITE NO. NODE 1
N LAKE SHORE DR & E CEDAR ST CHICAGO, IL 60611

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ISSUED FOR REVIEW
ISSUED FOR REVIEW
ISSUED FOR REVIEW
BY - CHK IPIC
SCALE - AS SHOWN
DESIGNED BY
AT&T MOBILITY
NEW POLE ELEVATIONS
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SSE