



Agenda Item #: \_\_\_\_\_

# Staff Report

## City of Manhattan Beach

**TO:** Honorable Mayor Fahey and Members of the City Council

**THROUGH:** Geoff Dolan, City Manager

**FROM:** Neil C. Miller, Director of Public Works  
Dana Greenwood, City Engineer

**DATE:** May 17, 2005

**SUBJECT:** Presentation by Verizon Regarding their Proposed Fiber to the Premises (FTTP) Project

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**RECOMMENDATION:**

Staff recommends that the City Council accept this presentation by Verizon regarding the Proposed Fiber to the Premises (FTTP) Project, and provide direction to staff.

**FISCAL IMPLICATION:**

Verizon has deposited adequate funds to cover the cost of reviewing the project. There will be no cost to the City associated with this project.

**DISCUSSION:**

Verizon had approached City staff in January 2005 with a series of permit requests to install above-ground cabinets at various residential neighborhood locations throughout the City. These cabinets will be part of a new fiber optic communication system utilizing equipment that is moisture-sensitive and cannot be placed below ground. Staff has been advised that there is no room in Verizon's existing cabinets for this new equipment. Staff has not moved forward with issuing any of these permits until Verizon develops a program to work with residents affected by the proposed installations.

As shown in the accompanying presentation, the project would be implemented in two phases. The first phase covers that portion of the City roughly south of Manhattan Beach Boulevard. There are approximately 22 cabinets as part of this phase. The second phase would be completed next year with the installation of approximately 37 cabinets north of Manhattan Beach Boulevard.

Attached to this report is a sample of a notice that Verizon intends to mail out to all residents within 500 feet of a proposed installation site. The cabinets in question are roughly 4 feet tall and approximately 5 feet wide. While installation of these facilities is covered under the Telecommunications Act, Verizon has agreed to work with the City and the residents in an effort to identify the optimum location for each cabinet.

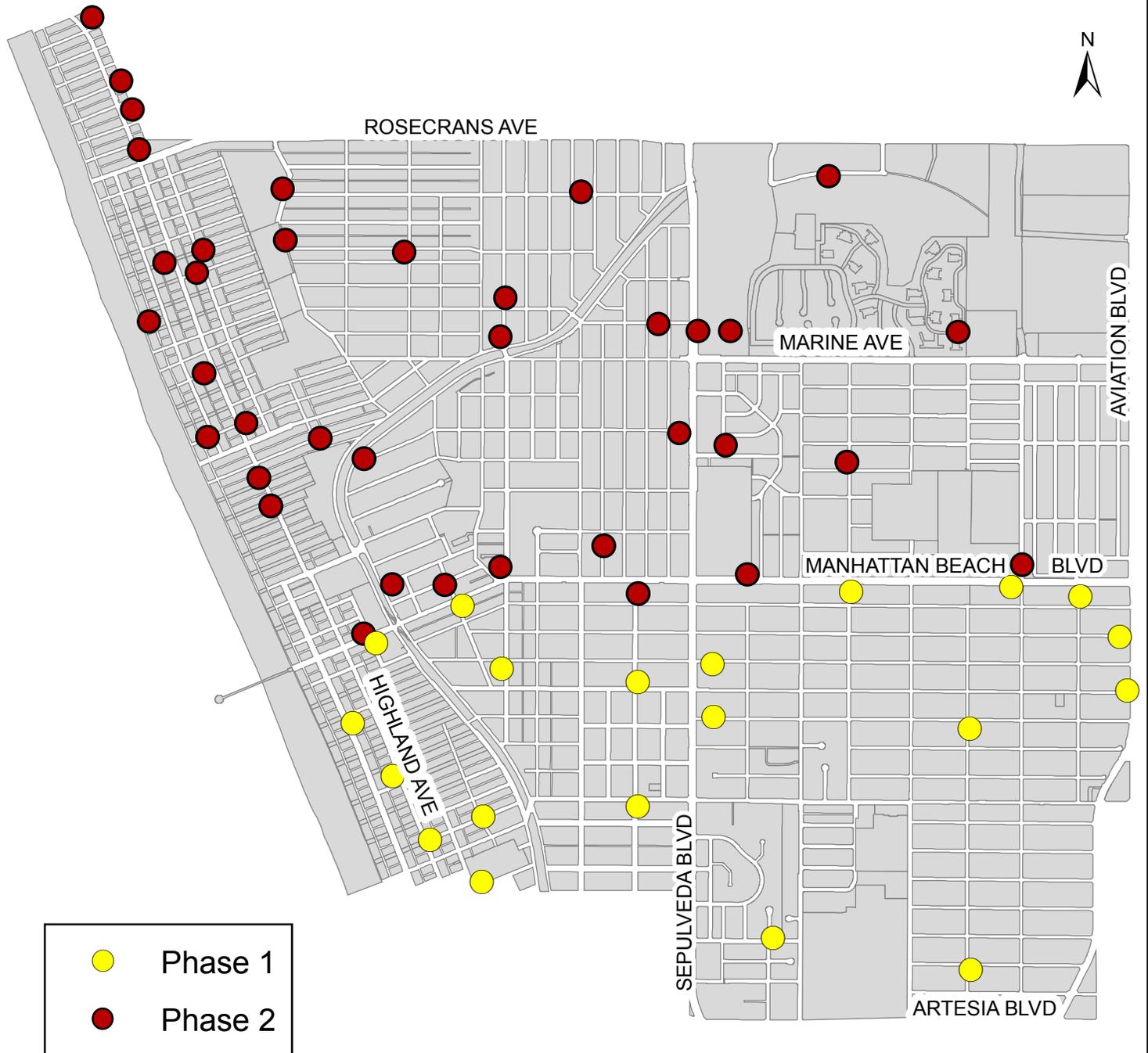
***Site Review Process***

In an effort to make sure that the residents' concerns are adequately addressed, staff is recommending that the City retain the services of a consultant that has experience with installations of this nature. Verizon has agreed to pay for the services of such a consultant. Verizon has deposited \$50,000 with the City to cover the expense of the consultant. The consultant will bill against this account based on an hourly rate of \$85 an hour. The consultant would provide the following services:

- 1) Review each location in the field with the planner from Verizon. If a better location is identified, the cabinet location will be changed.
- 2) After Verizon's notice is sent out to every resident within 500 feet of each location, the consultant will respond to any calls received from residents concerning the installation.
- 3) The consultant will meet any concerned residents (along with the Verizon planner) in the field to review final cabinet locations and double check alternative options considered.
- 4) At the end of the project, any unexpended funds in the account would be returned to Verizon. If it appears that the amount deposited with the City will be exceeded, Verizon will deposit additional funds with the City to cover the expected shortfall.

Attachments: a) Sample Verizon Notice (not available in electronic format)  
b) GIS Map

# Proposed Verizon Fiber Optic Hub Locations



0 0.5 1 1.5 2 Miles



# ***Fiber to the Premises (FTTP)***

***Prepared for the***



***May 17, 2005***

# What is Fiber-to-the-Premises?



Fiber to the Premises



- **FTTP is Verizon's next-generation broadband network that will deliver voice and high-bandwidth Internet services and applications to residences and businesses.**
- **While Verizon has been using fiber-optic systems in our network for years, FTTP is a major extension of fiber optics, using next-generation technology, all the way to our residence and business customers' premises.**
- **Video Services is the FTTP network's next advancement, one that will require the granting of a cable franchise to Verizon.**

# How big is FTTP's bandwidth?



Fiber to the Premises

## Average Download Time For Full Length Movie

•Phone Line  
5 days @ 56kbps

*A Quantum  
Change...*

•DSL Modem  
4 hrs 30 min

•Cable Modem  
2 hrs 12 min @ 1.5mbps

•**Fiber**  
13 min @ 30mbps

*FTTP is a quantum leap above existing copper and cable networks - the bandwidth provided allows for the first time, extensive high-definition video, and enables a whole new era in communications*

# Verizon Fios<sup>sm</sup> Product Offering



Fiber to the Premises

Verizon's new suite of fiber-optic services over FTTP will be called Verizon Fios<sup>sm</sup> (FYE-ose)

Verizon will offer superior broadband speeds at very competitive prices along with existing wireline and wireless, local and long distance telephony services and, in some areas, new video services –

*A new “Grand Slam” suite of products and services for Verizon customers*

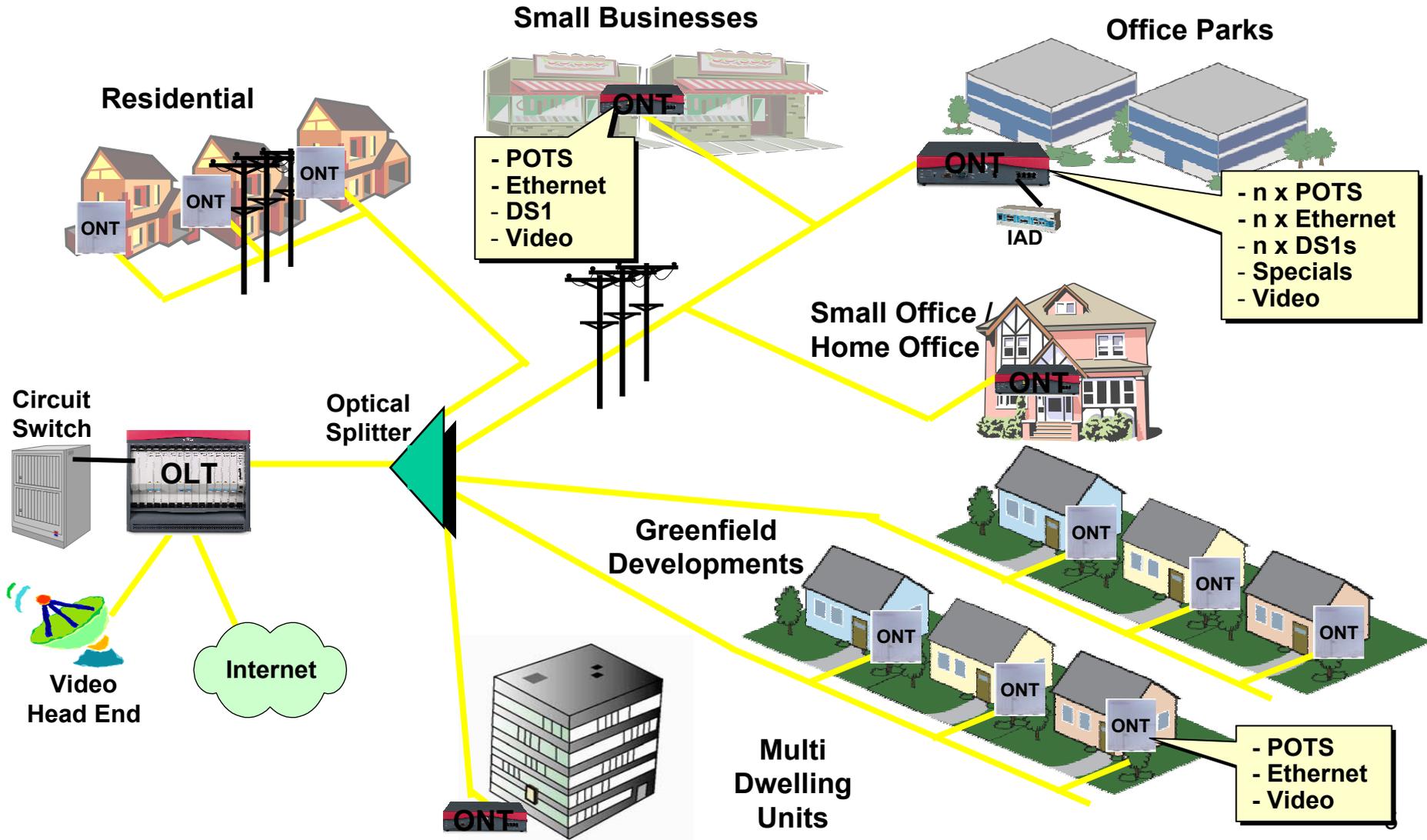
Pricing for the Fios broadband service will be:

- 5 Mbps/2 Mbps - \$34.95 a month as part of a calling package, or \$39.95 a month stand alone
- 15 Mbps/2 Mbps - \$44.95 a month as part of a calling package, or \$49.95 a month stand-alone
- 30 Mbps/5 Mbps at pricing to be announced later

# FTTP Architecture for Homes & Businesses



Fiber to the Premises

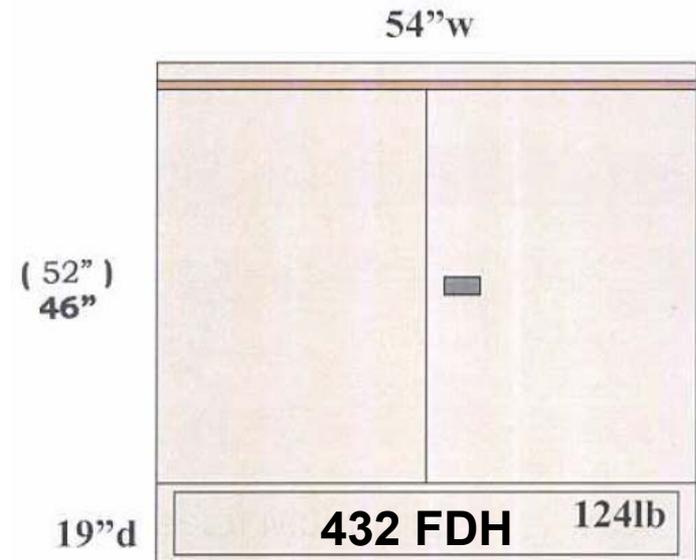


# Impacts of the FTTP build



Fiber to the Premises

- Above Ground Cabinets (FDH – Fiber Distribution Hub)
- Minimal Substructure Work to place cabinets
- Concerns of Citizens – Placement of Cabinets



# Before and After – Cabinet Placement



Fiber to the Premises



# Proposed Cabinet Sites



## Fiber to the Premises

2005

Hub #	Size	WO	Address
1021	432	BS	F/O 116 Dianthus St, S/O 2nd St.
1022	216	BT	F/O 200 2nd St, E/O Ingleside Dr.
1023	432	BU	F/O 305 2nd St, W/O Crest Dr.
1024	432	BV	F/O 228 5th St, E/O Bayview Dr.
1025	432	BW	S/S 9th Pl, W/O Bayview Dr.
1026	432	BX	F/O 1261 Keats St, E/O Prospect Ave.
1027	432	BY	F/O 817 Pacific Ave, S/O 9th St.
1028	432	CA	800 Dianthus St, S/O 9th St.
1029	432	CB	F/O 1117 6th St, E/O Sepulveda Bl.
1030	432	CC	S/O 850 Sepulveda Bl, C/O 9th St.
1031	432	CD	S/O 4000 Manhattan Bch Bl, C/O Morningside Dr.
1032	216	CE	509 11th St, N/E C/O Ardmore
1033	432	CF	S/O 1400 Manhattan Bch Bl, E/O Rowell Ave.
1034	432	CG	S/O 1602 6th St, E/O Herrin
1035	432	CH	F/O 1664 Manhattan Bch Bl, W/O Redondo Ave
1036	432	CJ	1801 Harkness, C/O Manhattan Bch Bl.
2017	432	FM	F/O 1600 Nelson Ave, E/O Herrin St.
2018	432	FN	S/E C/O Aviation Bl / Ruhland Ave
2022	432	FS	1857 Aviation Bl, N/O 8th St.
2023	432	FT	F/O 975 Aviation Bl, S/W C/O 10th St.

# Proposed Cabinet Sites



Fiber to the Premises

Hub#	Size	WO	Address
1001	432	AA	S/O Arbolado Ct, E/O Pacific Ave.
1002	432	AB	F/O 2701 Pacific Ave, N/O 27th St.
1003	432	AC	S/S 668 31st St, W/O Flournoy
1004	216	AD	F/O 652 12th St., C/O Highview Ave.
1005	216	AE	S/O 1300 Ardmore, E/O 13th St.
1006	432	AF	F/O 609 19th ST, E/O Ardmore Ave.
1007	144	AG	F/O 2501 Pacific Ave, N/O Marine Ave.
1008	432	AH	F/O 3149 Bell Ave, N/O 31st Pl.
1009	432	AJ	F/O 3400 Bell Ave, W/S @ 33rd Pl.
1010	432	AK	F/O 3622 N.Highland Ave, N/O Rosecrans Ave.
1011	432	AL	F/O 3900 Crest Dr, C/O 39th St.
1012	432	AM	F/O 4010 Crest Dr, C/O 41st St.
1013	432	AN	F/O 4420 Crest Dr, C/O 44th St.
1014	432	AP	F/O 3121 32nd St, N/E C/O Highland Ave.
1015	432	AQ	F/O 3201 32nd St, W/O Vista Dr.
1016	432	AR	S/O 3101 Vista Dr, E/O 31st St.
1017	432	AS	F/O 2920 Ocean Dr, S/O 30th St.
1018	216	AT	F/O 506 21st St.
1019	216	AU	F/O 2220 1/2 23rd St, S/W C/O Crest Dr.

# Proposed Cabinet Sites



Fiber to the Premises

Hub#	Size	WO	Address
1020	432	AV	F/O 2600 Bayview Dr, N/O 26th St.
1021	432	AW	F/O 115 23rd St, E/O Ocean Dr.
1022	432	AX	N/O 333 Manhattan Bch Bl, W/O Morningside Dr.
1023	432	AY	F/O 235 18th Pl, N/W C/O Highland Ave.
1024	432	BA	E/O Highland Ave, S/O 233 20th St.
2001	432	BB	F/O 3500 Pointsettia Ave, E/O Walnut Ave.
2002	432	BC	S/O 2617 Oak Ave, W/O 27th St.
2003	432	BD	F/O 42 Village Cir, S/O access to mall(within HOA)
2004	216	BE	C/O Sausalito Cir / Bermuda Ct.(within HOA)
2005	432	BF	F/O 2620 N.Sepulveda Bl, N/O Marine Ave.
2006	144	BG	F/O 1300 Park View Ave, E/O Village Cir.
2008	432	BJ	1151 Lyngrove Dr, E/O Redondo Ave, N/O Manhattan Bch Bl.
2009	432	BK	W/O Rowell, S/O 19th St.
2010	432	BL	1151 Manhattan Bch Bl, W/O Magnolia Ave.
2011	432	BM	S/O 1131 18th St, E/O Cedar Ave.
2012	432	BN	F/O 1829 19th St, E/O Oak Ave.
2013	432	BQ	S/O 927 Manhattan Bch Bl, E/O Walnut Ave.
4001	216	BQ	F/O 1003 Dianthus, S/O Manhattan Bch Bl.

# Equipment used at Customer Premise



Fiber to the Premises



*ONT – Optical  
Network Terminal*



*Power Supply and  
Battery Back-up*

# *Project Coordination*



Fiber to the Premises

- ◆ **Verizon will coordinate with City staff the placement of each FDH**
- ◆ **Customer notification provided prior to construction**
- ◆ **Establish regular meetings to track progress and address issues**

***Questions..... Comments.....***