

# REPORT - 227<sup>TH</sup> LANE WATER MAIN EXTENSION PROJECT

Date: 8/27/2013



North Beach Water District has received a request for a water main extension on 227<sup>th</sup> Lane west of HWY 103. North Beach Water District Board Policy "Customer Generated Infrastructure" allows the District to extend water mains to customers provided:

1. At least 30% of the affected properties sign a Customer Generated Infrastructure agreement along with fees and down payments.
2. The Board of Commissioners approved the project at a public hearing. Board approval is needed prior to commencement of any work.

The General Manager has determined that there are 15 affected properties on 227<sup>th</sup> Lane. In order to proceed with the project at least four of the affected property owners will need to execute a Customer Generated Infrastructure Agreement.

The 227<sup>th</sup> Lane water main extension will begin with a 6-inch tap off of the 8-inch water main that runs north/south along Hwy 103. The tap will be at a 90° angle to the 8-inch main and proceed west to the point where the Hwy 103 right-of-way ends and the 227<sup>th</sup> Lane easement begins. At that point a fire hydrant will be installed at a right angle to, and north of, the 6-inch 227<sup>th</sup> water main extension. The fire hydrant will be located within the Hwy 103 right-of-way just east of the 227<sup>th</sup> Lane easement. At a point on the 227<sup>th</sup> Lane water main extension west of the fire hydrant the 6-inch water main will be reduced to a 4-inch water main and the 4-inch water main will proceed west to the point where the 227<sup>th</sup> Lane easement ends. At the end of the 4-inch water main a Kupferle MainGuard® Post Hydrant will be installed at a right angle to the north of the 4-inch water main.

The General Manager has identified both the Local Facilities and General Facilities cost that will be included in this project. The local facilities include 75% of the Tap, Gate Valve, 6" water main, and engineering and 100% of the 4" water main, Kupferle MainGaurd® (Blow Off) and the road

restoration. The general facilities charge will include 25% of the Tap, Gate Valve, engineering, and 6" Water main and 100% of the fire hydrant and its appurtenances.

Amount	Unit	Description	Unit Cost	LFC	GFC	Total
1	EA	Project Engineering	\$5,000.00	\$ 3,750.00	\$ 1,250.00	\$ 5,000.00
1	EA	Hot Tap 8" to 6" w/AWWA Gate Valve	\$2,500.00	\$ 1,875.00	\$ 625.00	\$ 2,500.00
40	LF	6" C-900 PVC Pipe (CL235 DR 18)	\$ 4.25	\$ 127.50	\$ 42.50	\$ 170.00
760	LF	4" C-900 PVC Pipe (CL235 DR 18)	\$ 3.50	\$ 2,660.00	\$ -	\$ 2,660.00
1	EA	4" Fittings	\$ 250.00	\$ 250.00	\$ -	\$ 250.00
1	EA	Fire Hydrant	\$1,975.00	\$ -	\$ 1,975.00	\$ 1,975.00
1	EA	6" MJ X FL Tee DI, AWWA C153	\$ 165.00	\$ -	\$ 165.00	\$ 165.00
1	EA	6" MJ X FL Gate Valve DI, AWWA C515 RS	\$ 650.00	\$ -	\$ 650.00	\$ 650.00
1	EA	6" X 12" Gradelok® Hydrant Offset	\$ 550.00	\$ -	\$ 550.00	\$ 550.00
1	EA	Hydrant Fittings	\$ 120.00	\$ -	\$ 120.00	\$ 120.00
1	EA	Kupferle MainGaurd® Post Hydrant & Fittings	\$ 800.00	\$ 800.00	\$ -	\$ 800.00
250	Ton	1-inch minus Crushed Rock (road restoration)	\$ 12.00	\$ 3,000.00	\$ -	\$ 3,000.00
120	HR	Labor, Profit, Overhead	\$ 90.00	\$ 8,640.00	\$ 2,160.00	\$ 10,800.00
Sub Total				\$21,102.50	\$ 7,537.50	\$ 28,640.00
15% Contingency				\$ 3,222.00	\$ 1,074.00	\$ 4,296.00
Sub Sub Total				\$24,324.50	\$ 8,611.50	\$ 32,936.00
Sales Tax				\$ 1,926.76	\$ 642.25	\$ 2,569.016
Grand Total				<b>\$26,251.26</b>	<b>\$ 9,253.75</b>	<b>\$ 35,505.01</b>

The Local Facilities segment is the segment of the project that provides domestic water to the affected properties on 227<sup>th</sup> Lane.

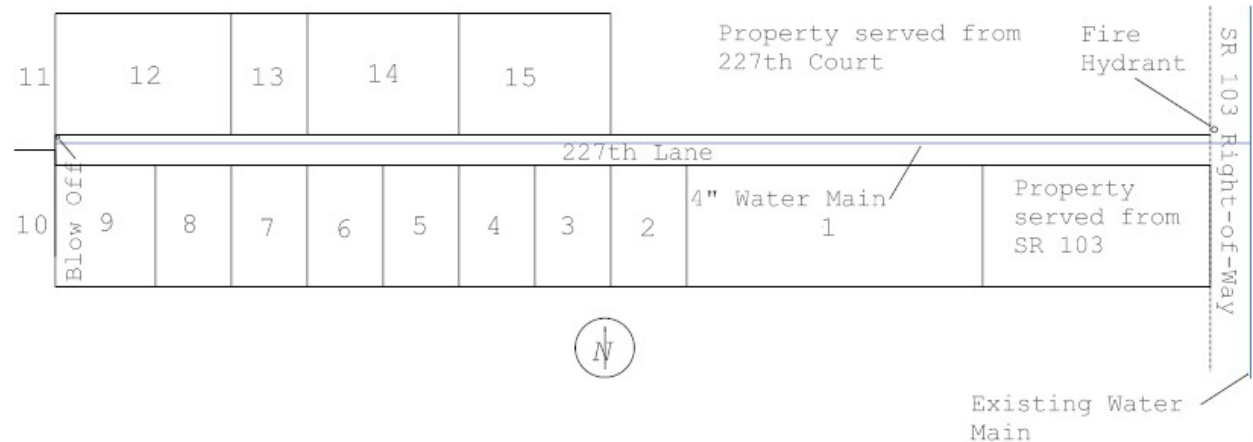
The General Facilities segment is the segment of the project that is needed to install a fire hydrant at the intersection of 227<sup>th</sup> Lane and SR 103. The fire hydrant will benefit properties

within a one thousand foot radius of the fire hydrant by increasing the Insurance Services Office (ISO) Fire Suppression Rating (FSR) used by insurance providers to determine fire insurance coverage costs. The fire hydrant will also benefit all properties south and west of 227<sup>th</sup> Lane by enhancing unidirectional flushing efficiency.

Estimated cost to connect to the water system for affected properties on 227<sup>th</sup> Lane:

Local Facilities Charge <sup>1</sup> (estimated):	\$ 1,750.08
General Facilities Charge <sup>2</sup> (for ¾" meter):	\$ 1,243.00
Meter installation Charge <sup>3</sup> (for ¾" meter):	<u>\$ 650.00</u>
<b>Total Connection Charge</b>	<b>\$ 3,643.08</b>

The District will finance 90% of the Local Facilities Charge and the General Facilities Charge in sixty (60) monthly installments to affected property owners who do not have adverse liens filed against the affected property. The interest rate will be four points about the prime lending rate. The prime lending rate is currently 3.5%. The payment will be approximately \$54.00 a month.



<sup>1</sup> \$26,251.26 ÷ 15 = \$1,750.08  
<sup>2</sup> As identified in the District’s Rules and Regulations  
<sup>3</sup> As identified in the District’s Rules and Regulations

**Affected Properties:**

<b>1220 227<sup>th</sup> Lane:</b>	<b>1210 227<sup>th</sup> Lane:</b>
[REDACTED]	[REDACTED]
Yahn, Terry & Marlene	Wark, Sharon
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	
	[REDACTED]
<b>Vacant Lot</b>	<b>1202 227<sup>th</sup> Lane</b>
[REDACTED]	[REDACTED]
Rodman, Cindy	Rodman, Cindy
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
	[REDACTED]
[REDACTED]	[REDACTED]
<b>1116 227<sup>th</sup> Lane</b>	<b>1110 227<sup>th</sup> Lane</b>
[REDACTED]	[REDACTED]
Adams, Jennifer	Lafaday, Jerry and Viola
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

1106 227 <sup>th</sup> Lane	1102 227 <sup>th</sup> Lane
[REDACTED]	[REDACTED]
Smith, Karen	Bank of New York Mellon Trust
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	
1016 227 <sup>th</sup> Lane	904 227 <sup>th</sup> Lane
[REDACTED]	[REDACTED]
Petersen, Joanna	Petersen, Joanna
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
903 227 <sup>th</sup> Lane	1015 227 <sup>th</sup> Lane
[REDACTED]	[REDACTED]
Landholm, Joseph & Trena	Moggio, Deborah
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
	[REDACTED]

Vacant Lot	1115 227 <sup>th</sup> Lane
[REDACTED]	[REDACTED]
Smith, Karen	Pavalunas, Robert DDS PS & Judy
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	
Vacant Lot	
[REDACTED]	
Hughes, Karl & Nancy	
[REDACTED]	
[REDACTED]	