



# LINDEN ROAD AND HOLLY KNOLL DRIVE WATER MAIN EXTENSION

- FEASIBILITY REVIEW AND PROBABLE COST ESTIMATE

- JULY 2019



**PARTNERS FOR WHAT'S POSSIBLE**

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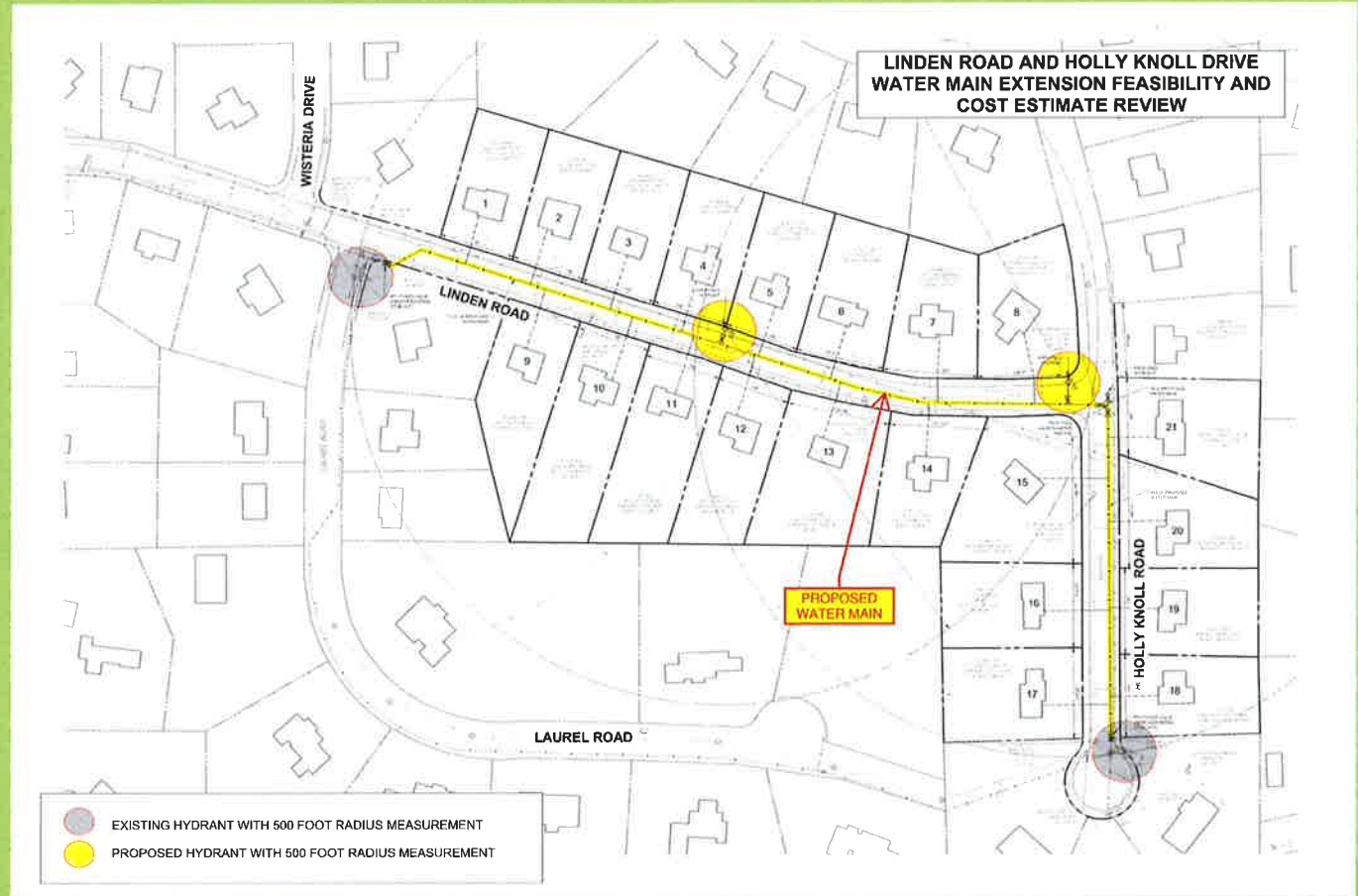


# WATER MAIN EXTENSION FEASIBILITY

- ◆ 21 Properties
- ◆ 1,500 Linear Feet of Watermain
- ◆ 21 – 1" Diameter Services
- ◆ Restoration



# WATER MAIN EXTENSION FEASIBILITY



Hydrant Location Map

# WATER MAIN EXTENSION FEASIBILITY

No	TMP	PROPERTY ADDRESS
1	31-048-093	320 LINDEN ROAD
2	31-046-092	328 LINDEN ROAD
3	31-046-091	336 LINDEN ROAD
4	31-046-090	344 LINDEN ROAD
5	31-046-089	352 LINDEN ROAD
6	31-046-088	360 LINDEN ROAD
7	31-046-087	368 LINDEN ROAD
8	31-046-086	483 LINDEN ROAD
9	31-046-134	331 LINDEN ROAD
10	31-046-135	339 LINDEN ROAD
11	31-046-136	347 LINDEN ROAD
12	31-046-137	355 LINDEN ROAD
13	31-046-138	363 LINDEN ROAD
14	31-046-139	373 LINDEN ROAD
15	31-046-140	505 HOLLY KNOLL DRIVE
16	31-046-141	517 HOLLY KNOLL DRIVE
17	31-046-142	525 HOLLY KNOLL DRIVE
18	31-046-046	526 HOLLY KNOLL DRIVE
19	31-046-045	516 HOLLY KNOLL DRIVE
20	31-046-044	506 HOLLY KNOLL DRIVE
21	31-046-043	496 HOLLY KNOLL DRIVE



# ESTIMATE OF COST (PUBLIC)

Total Public Improvements Construction Costs = \$ 263,625.00  
 8.5% Construction Management and Design = \$ 22,408.13  
 5% Construction Inspection = \$ 13,181.25  
**Total Cost = \$ 299,214.38**

## LINDEN ROAD AND HOLLY KNOLL DRIVE WATER MAIN EXTENSION FEASIBILITY REVIEW ESTIMATE OF PROBABLE COST JUNE 13, 2019

ITEM NUMBER	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL COSTS
<b>1.0</b>	<b>Public Improvements</b>				
1.1	Connect to Existing Water Main, Including Excavation and Backfill	2	EA	\$ 5,500.00	\$ 11,000.00
1.2	8" DIP Water Main, Complete in Place, Including Excavation and Backfill	1,500	LF	\$ 82.00	\$ 123,000.00
1.3	8" DIP Elbow	2	EA	\$ 300.00	\$ 600.00
1.4	6" DIP Water Main	50	LF	\$ 75.00	\$ 3,750.00
1.5	8" Gate Valve and Box	5	EA	\$ 1,300.00	\$ 6,500.00
1.6	6" Fire Hydrants and Valve Assembly	2	EA	\$ 5,000.00	\$ 10,000.00
1.7	8-Inch x 8-Inch x 6-Inch Tee	2	EA	\$ 500.00	\$ 1,000.00
1.8	8-Inch x 8-Inch x 8-Inch Tee	1	EA	\$ 500.00	\$ 500.00
1.9	Horizontal Concrete Thrust Blocks/Anchors	10	EA	\$ 55.00	\$ 550.00
1.10	Vertical Concrete Thrust Blocks/Anchors	0	EA	\$ 55.00	\$ -
1.11	Temporary Pavement (4' Wide)	800	SY	\$ 10.00	\$ 8,000.00
1.12	Permanent Paving Trench Restoration- (6' Wide)	1,250	SY	\$ 48.00	\$ 60,000.00
1.13	Unimproved Area Trench Restoration	250	SY	\$ 11.00	\$ 2,750.00
1.14	Concrete Curb Replacement	0	LF	\$ 60.00	\$ -
1.15	Maintenance and Protection of Traffic	1	LS	\$ 3,000.00	\$ 3,000.00
1.16	Excavation as Directed By The Engineer	15	CY	\$ 35.00	\$ 525.00
1.17	Labelling of Facility Locations	1	LS	\$ 1,000.00	\$ 1,000.00
1.18	Erosion and Sedimentation Controls	0	LS	\$ 1,500.00	\$ -
1.19	1-Inch K-Copper Water Service Pipe Located within Township Right-of Way, Complete in Place, Including all Excavation and Backfill	550	LF	\$ 40.00	\$ 22,000.00
1.20	Corporation Stops	21	EA	\$ 200.00	\$ 4,200.00
1.21	Curb Stop and Box Complete in Place	21	EA	\$ 250.00	\$ 5,250.00
<b>TOTAL ESTIMATED CONSTRUCTION COST FOR PUBLIC IMPROVEMENTS</b>					<b>\$ 263,625.00</b>



# ESTIMATE OF COST (PRIVATE)

## LINDEN ROAD AND HOLLY KNOLL DRIVE WATER MAIN EXTENSION FEASIBILITY REVIEW ESTIMATE OF PROBABLE COST JUNE 13, 2019

ITEM NUMBER	DESCRIPTION	ESTIMATED QUANTITY	UNITS	UNIT PRICE	TOTAL COSTS
<b>2.0</b>	<b>Private Improvements (varies per property)</b>				
2.1	1-Inch Copper Water Service Pipe in Unimproved Areas, Complete in Place, Including all Excavation and Backfill (length varies per house)	60	LF	\$ 40.00	\$ 2,400.00
2.2	Well Abandonment (optional)	0	EA	\$ 2,250.00	\$ -
2.3	Furnish and Install 3/4-Inch Meter	1	EA	\$ 700.00	\$ 700.00
2.4	Furnish and Install Meter Pit	1	EA	\$ 1,700.00	\$ 1,700.00
2.5	Interior Plumbing (Piping and Appurtenances)	1	EA	\$ 1,000.00	\$ 1,000.00
2.6	Connection / Unimproved Area Trench Restoration	1	EA	\$ 200.00	\$ 200.00
2.7	Lawn Restoration	80	SY	\$ 2.50	\$ 200.00
2.8	NBCMA Tapping Fee	1	EA	\$ 2,663.00	\$ 2,663.00
2.9	NBCMA Administrative Connection Fee	1	EA	\$ 100.00	\$ 100.00
2.10	Township Plumbing Permit Plan Review and Inspection Fee	1	EA	\$ 200.00	\$ 200.00
				Subtotal=	\$ 9,163.00

Estimated Total Private Improvements Cost (per each property) = \$ 9,163.00



# PROJECT COST DIVISION

Note: Parcel Frontage is approximated based on tax mapping information. For the purpose of this estimate, properties with project frontage greater than 115.0 feet assigned with an Assessable Front Footage of 115.0 feet.

## LINDEN ROAD AND HOLLY KNOLL DRIVE WATER MAIN EXTENSION FEASIBILITY REVIEW ESTIMATE OF PROBABLE COST JUNE 13, 2019

CUSTOMER FRONTAGE COST BREAKDOWN FOR PUBLIC COST BASED ON ESTIMATED PROJECT COST OF \$299,214.38				
TMP	PROPERTY ADDRESS	APPROXIMATE PARCEL TOTAL FRONTAGE*	ASSESSABLE FRONT FOOTAGE	ESTIMATED COST @ \$132.22 PER LF
31-048-093	320 LINDEN ROAD	100.00	100.00	\$13,222.02
31-046-092	328 LINDEN ROAD	100.00	100.00	\$13,222.02
31-046-091	336 LINDEN ROAD	100.00	100.00	\$13,222.02
31-046-090	344 LINDEN ROAD	100.00	100.00	\$13,222.02
31-046-089	352 LINDEN ROAD	100.00	100.00	\$13,222.02
31-046-088	360 LINDEN ROAD	123.30	115.00	\$15,205.33
31-046-087	368 LINDEN ROAD	120.00	115.00	\$15,205.33
31-046-086	483 LINDEN ROAD	344.89	115.00	\$15,205.33
31-046-134	331 LINDEN ROAD	100.00	100.00	\$13,222.02
31-046-135	339 LINDEN ROAD	100.00	100.00	\$13,222.02
31-046-136	347 LINDEN ROAD	100.00	100.00	\$13,222.02
31-046-137	355 LINDEN ROAD	100.00	100.00	\$13,222.02
31-046-138	363 LINDEN ROAD	133.99	115.00	\$15,205.33
31-046-139	373 LINDEN ROAD	131.13	115.00	\$15,205.33
31-046-140	505 HOLLY KNOLL DRIVE	316.58	115.00	\$15,205.33
31-046-141	517 HOLLY KNOLL DRIVE	115.26	115.00	\$15,205.33
31-046-142	525 HOLLY KNOLL DRIVE	116.26	115.00	\$15,205.33
31-046-046	526 HOLLY KNOLL DRIVE	114.00	114.00	\$15,073.11
31-046-045	516 HOLLY KNOLL DRIVE	114.00	114.00	\$15,073.11
31-046-044	506 HOLLY KNOLL DRIVE	149.13	115.00	\$15,205.33
31-046-043	496 HOLLY KNOLL DRIVE	100.00	100.00	\$13,222.02
<b>TOTAL=</b>			<b>2263.00</b>	<b>\$299,214.38</b>





# ORDER OF EVENTS

1. Determine if there is compelling community support for the Project
2. Township Board of Supervisors approve the plan of construction and the estimated cost of the project (e.g. \$132.22 per linear foot, 2263 feet x \$132.22 = \$299,214.38) and establish project is to be paid for by front foot assessment
3. Project goes out to public bid (bidding period of approximately 4 weeks)
4. Project bid opening
5. Determination of Final Front Foot Assessment based on actual Contract Price
6. Contract Award
7. Construction (approximately 90 days)
8. After Contract Completion residents may make application to connect (optional)



# WHAT TO EXPECT



# WHAT TO EXPECT



# WHAT TO EXPECT



