



**LEGEND**

- EXISTING 12" WATER MAIN
- EXISTING 10" WATER MAIN
- EXISTING 8" WATER MAIN
- EXISTING 6" WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER MAIN PHASE 1
- PROPOSED WATER MAIN PHASE 2
- PROPOSED WATER MAIN PHASE 3
- 24" COUNTY WATER MAIN
- POTENTIAL WELL SITES
- NEW SERVICE EXPANSION AREAS
- EXISTING OR PENDING TOWN OWNED AND OPERATED WATER SYSTEM
- PRIVATELY OWNED AND OPERATED WATER SYSTEM
- SERVICE AREA EXPANSION OF PRIVATELY OWNED AND OPERATED WATER SYSTEM
- PROPOSED DEVELOPMENT WATER SYSTEM
- AREA THAT MAY REQUEST WATER SYSTEM
- EXISTING TOWN WATER SYSTEM SERVING BEEKMAN
- OUT OF DISTRICT WATER USER

0 800 1600 FEET

REV. No.	DESCRIPTION	DATE	BY
<b>TOWN OF EAST FISHKILL TAX MAP</b> TOWN OF EAST FISHKILL DUTCHESS COUNTY, NY <b>WATER DISTRICT MAP OPTIONS 1 - 3</b>			
<b>MORRIS ASSOCIATES,</b> ENGINEERING CONSULTANTS, PLLC <small>9 Elk Lane, Poughkeepsie, New York 12601          Phone No. (845) 454-3411 Fax No. (518) 828-2300          164 Green Street, Hudson, New York 12534          Phone No. (518) 828-2300 Fax No. (518) 828-3963</small>			
DATE	SCALE	DESIGNED BY	FILE No.
5/7/2018	AS NOTED	JFL	13110.54
		DRAWN BY	DRAWING No.
		RAM	1 of 1
		CHECKED BY	
		RJL	

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**Construction Cost Comparison for Connection Routes - Hopewell Hamlet to Revere Park/Worley Homes  
Town of East Fishkill - May 2018**

**Option 1 - Connection Through Vicki & Tina Lane to Revere Park**

Item Description	Units	Unit Cost	Quantity	Estimated Cost
8" Transmision Connection - Town Road	LF	\$ 150	3800	\$ 570,000
8" Transmision Connection - Off Road	LF	\$ 140	700	\$ 98,000
Stream Crossing - Wetlands Area	LS	\$ 50,000	1	\$ 50,000
Subtotal Estimate Construction Costs				\$ 718,000
Construction Contingencies				\$ 71,800
<b>Total Construction Costs</b>				<b>\$ 789,800</b>
<b>SAY:</b>				<b>\$ 790,000</b>

**Option 2 - Connection Through Route 376 to Secor Lane - Fishkill Plains**

Item Description	Units	Unit Cost	Quantity	Estimated Cost
10" Transmision Connection - State Road	LF	\$ 290	3300	\$ 957,000
10" Transmision Connection - Town Road	LF	\$ 165	600	\$ 99,000
8" Transmision Connection - Off Road Worley Conn	LF	\$ 140	500	\$ 70,000
Subtotal Estimate Construction Costs				\$ 1,126,000
Construction Contingencies				\$ 112,600
<b>Total Construction Costs</b>				<b>\$ 1,238,600</b>
<b>SAY:</b>				<b>\$ 1,239,000</b>

**Option 3 - Connection Through Route 82 to Crest Court - Worley Homes**

Item Description	Units	Unit Cost	Quantity	Estimated Cost
8" Transmision Connection - State Road	LF	\$ 290	3700	\$ 1,073,000
8" Transmision Connection - Town Road	LF	\$ 165	350	\$ 57,750
8" Transmision Connection - Off Road Worley Conn	LF	\$ 140	500	\$ 70,000
Subtotal Estimate Construction Costs				\$ 1,200,750
Construction Contingencies				\$ 120,075
<b>Total Construction Costs</b>				<b>\$ 1,320,825</b>
<b>SAY:</b>				<b>\$ 1,321,000</b>

General Note: This only considers connection costs to Revere Park/Worley Homes and does not include any recommended improvements within Revere Park or Worley Homes.

Option 1 Note: There is a stream crossing on Tina Lane with wetlands noted on either side of the road. For this evaluation it was assumed that the road is not in the wetlands and that a stream crossing can be made under it.

Option 3 Note: This assumes that others will install the water main connection along Fishkill Road to Joes Mothers Road. Additional costs would apply if the Town was required to install this.

**Ranking Comparison for Connection Routes - Hopewell Hamlet to Revere Park/Worley Homes  
Town of East Fishkill - May 2018**

Benefit Rankings 1-3 (3 Being Highest) for Each Item, with Highest Overall Score Ranking Based Upon Sum of Individual Items

<b><u>Benefit Ranking Item - Description</u></b>	<b><u>Option 1: Tina/Vicki Lane to Revere Park</u></b>	<b><u>Option 2: NYS Route 376 to Fishkill Plains</u></b>	<b><u>Option 3: Rte 82/Crest Ct to Worley Homes</u></b>
Lowest Total Construction Costs	3	2	1
Ability to Supply Future Area Demand Needs	1	3	2
Ability to Supply Parcels along Route in Future	1	2	3
Ability to Provide Fire Demands	2	3	1
Environmental Issues - EAF Needs	1	3	2
Easements/DOT Permits Required	3	2	1
Required Time for Design/Bid/Construction	3	2	1
<b>Totals:</b>	<b>14</b>	<b>17</b>	<b>11</b>

Water Line Transmission Main Cost Apportionment  
 "Fair Share Contributions"

Option #1 Water Line Cost Estimate		\$790,000
Worley Homes	tax parcels	141
Revere Park	tax parcels	77
Possible other interested parcels	say	10
total tax parcels		228
Worley Homes contribution % (141/228)		61.80%
Revere Park contribution % (77/228)		33.80%
Possible other interested parcels % ( 10/228)		4%
Worley Homes	61.80% \$790,000	\$488,220
Revere Park	33.80% \$790,000	\$267,020
Possible other interested parcels		\$34,760