

ALTERNATIVE 1 - CONNECT TO EAST LINTON SYSTEM - COST ESTIMATE

Alternative 1B - Connect to East Linton Water System. Smaller Size Watermains Only. Booster Station only at Mount Pleasant Drive. No fire flows provided.

WATERMAINS						
Item	Description	Length (m)	Size	Cost (\$/m)	Unit	Total Cost
1 a)	300 mm dia. watermain on Grey Road 1 from Balmy Beach Road to Grey Road 17A and on Grey Road 17 A to Booster Station near Mount Pleasant Road	2,200	300 mm	\$600	m	\$1,320,000
1 b)	200 mm dia. watermain on Grey Road 1 south of Grey Rd 17 A	1,300	200 mm	\$500	m	\$650,000
1 c)	200 mm dia. watermain on Grey Road 1 north of Balmy Beach Road to Indian Acres Road	700	200 mm	\$400	m	\$280,000
1 d)	Replace 200 mm dia. watermain on Balmy Beach Road south of Old Beach Road	350	200 mm	\$400	m	\$140,000
1 e)	300 mm dia. watermain from Booster Station to Range Road and then south on Range Road to 30th Street West	1,300	200 mm	\$500	m	\$650,000
1 f)	200 mm dia. watermain on 30th Street West and Edmonstone Street	1,600	200 mm	\$400	m	\$640,000
1 g)	200 mm dia. watermain on Gale Street south of 30th Street West to Grey Road 17B	2,900	200 mm	\$400	m	\$1,160,000
1 h)	200 mm dia. watermain on Nicols Gully Road and Youngs Drive to Atkins Street (Pottawatomie Village)	850	200 mm	\$400	m	\$340,000
1 i)	150 mm dia. Watermain on Mount Pleasant Drive	270	150 mm	\$300	m	\$81,000
SUBTOTAL - WATERMAINS						\$5,261,000
<p>Note - watermain cost per m above includes restoration and allowance for fittings and service stubs. Does not include any future watermain replacement costs in Pottawatomie Village.</p>						
BOOSTER STATION, RESERVOIR AND VALVE CHAMBERS						
Item	Description	Length (m)	Size	Cost (\$/m)	Unit	Total Cost
2 a)	Booster Station at Mount Pleasant Road. Features three, 9 l/s peak flow pumps. All VFD controlled. Features electrical, flow measurement and SCADA control.				Lump Sum	\$300,000
	Pumps, flow meters, pressure gauges and other instrumentation - \$70,000					
	Pumping station building including walls, roof, doors etc - \$80,000					
	Piping, valves and other mechanical - \$30,000					
	Backup Generator (external) - \$60,000					
	Electrical supply, panels, controls etc - \$60,000					
2 b)	Two compartment water storage reservoir to provide peak flow capacity and fire flows. NOT PROVIDED				Lump Sum	\$0
2 c)	Pressure Reducing Valve Chamber on Grey Road 1 north of Balmy Beach Road				Lump Sum	\$60,000
SUBTOTAL OF BOOSTER STATION, RESERVOIR AND VALVE CHAMBERS						\$360,000
TOTAL OF WATERMAINS, BOOSTER STATION AND VALVE CHAMBER						\$5,621,000
Allowance for Contingencies and Engineering (20% of above)						\$1,124,200
TOTAL COST ESTIMATE						\$6,745,200