

T.G. MILLER, P.C.

ENGINEERS AND SURVEYORS

Preliminary Opinion of Probable Construction Cost

1 - Town of Dryden Water Infrastructure Improvements

8/20/2019

Apple Orchard PRV Station

Upsize PRV to provide increased fire flow.

Item Description	Quantity	Unit	Unit Cost	Sub Total
General Requirements				
Mobilization	1	LS	\$5,000	\$5,000

Water Distribution System

8" PRV	1	EA	\$9,000	\$9,000
4" PRV	1	EA	\$5,000	\$5,000
8" Fire Rated Meter	1	EA	\$5,000	\$5,000
8" CL 52 DIP, valves and fittings	1	LS	\$8,000	\$8,000
Telemetry upgrades	1	LS	\$2,500	\$2,500
Remove old plumbing	1	LS	\$5,000	\$5,000
Install new plumbing	1	LS	\$15,000	\$15,000

Construction Total		\$49,500
Professional Services (survey, engineering, attorney, const. admin.)	15%	\$7,425
Construction Contingency	25%	\$12,375
Estimated Total Construction Cost		\$69,300

Preliminary Opinion of Probable Construction Cost

2 - Town of Dryden Water Infrastructure Improvements

8/20/2019

**Monkey Run Pump Station
New PRV Station to backfeed Varna**

Item Description	Quantity	Unit	Unit Cost	Sub Total
General Requirements				
Mobilization	1	LS	\$5,000	\$5,000

Water Distribution System

8" PRV	1	EA	\$9,000	\$9,000
8" Fire Rated Meter	1	EA	\$5,000	\$5,000
8" CL 52 DIP, valves and fittings	1	LS	\$8,000	\$8,000
PRV Station Plumbing	1	LS	\$15,000	\$15,000
Connection to Existing Main	2	EA	\$8,000	\$16,000
8" CL 52 DIP 4.5' Cover	100	LF	\$80	\$8,000
8" Valve and Box	2	EA	\$2,500	\$5,000
Testing and Chlorination	1	LS	\$800	\$800
Telemetry upgrades	1	LS	\$10,000	\$10,000
Precast Building/Vault	1	EA	\$20,000	\$20,000
Electrical (use existing service)	1	LS	\$5,000	\$5,000
Site Restoration	1	LS	\$5,000	\$5,000

Construction Total		\$106,800
Professional Services (survey, engineering, attorney, const. admin.)	15%	\$16,020
Construction Contingency	25%	\$26,700
Estimated Total Construction Cost		\$149,520

Preliminary Opinion of Probable Construction Cost

3 - Town of Dryden Water Infrastructure Improvements

8/20/2019

Section C- Apple Orchard PRV (Valve F0720M) to Game Farm Rd.

Upsize 2,680 LF of pipe from 8" to 12"

Item Description	Quantity	Unit	Unit Cost	Sub Total
General Requirements				
Mobilization	1	LS	\$10,000	\$10,000
Maintenance and Protection of Traffic	1	LS	\$2,500	\$2,500

Water Distribution System

12" CL 52 DIP 4.5' Cover (Remove old 8" DIP, hyd and fittings)	2,680	LF	\$170	\$455,600
Hydrant Assembly and Guard Valve on New Main	3	EA	\$6,000	\$18,000
12" Valve and Box	6	EA	\$8,000	\$48,000
Connection to Existing Main	2	EA	\$8,000	\$16,000
Service Reconnections 8"	4	EA	\$5,000	\$20,000
Service Reconnections 2"	1	EA	\$1,500	\$1,500
Temporary 4" Water Main	1	LS	\$25,000	\$25,000
Testing and Chlorination	2,680	LF	\$1	\$2,680

Site Improvements and Restoration

Lawn Restoration	1671	SY	\$10	\$16,713
Asphalt Repair	115	SY	\$110	\$12,687

Construction Total			\$628,680
Professional Services (survey, engineering, attorney, const. admin.)		15%	\$94,302
Construction Contingency		25%	\$157,170
Estimated Total Construction Cost			\$880,152

Preliminary Opinion of Probable Construction Cost

4 - Town of Dryden Water Infrastructure Improvements

8/20/2019

Section D - Game Farm Rd. to Forest Home Dr.

Replace 1,440 LF of 8" pipe with 8" pipe

Item Description	Quantity	Unit	Unit Cost	Sub Total
General Requirements				
Mobilization	1	LS	\$10,000	\$10,000
Maintenance and Protection of Traffic	1	LS	\$5,000	\$5,000

Water Distribution System

8" CL 52 DIP 4.5' Cover (Remove old 8" DIP, hyd and fittings)	1,440	LF	\$90	\$129,600
Hydrant Assembly and Guard Valve on New Main	3	EA	\$5,500	\$16,500
8" Valve and Box	4	EA	\$2,000	\$8,000
Connection to Existing Main	2	EA	\$4,500	\$9,000
Service Reconnections 6"	2	EA	\$4,000	\$8,000
Service Reconnections 1"	8	EA	\$1,200	\$9,600
Temporary 4" Water Main	1	LS	\$25,000	\$25,000
Testing and Chlorination	1,440	LF	\$1	\$1,440

Site Improvements and Restoration

Lawn Restoration	1,600	SY	\$10	\$16,000
Asphalt Repair	40	SY	\$110	\$4,400

Construction Total			\$242,540	
Professional Services (survey, engineering, attorney, const. admin.)		15%	\$36,381	
Construction Contingency		25%	\$60,635	
Estimated Total Construction Cost			\$339,556	

Preliminary Opinion of Probable Construction Cost

5 - Town of Dryden Water Infrastructure Improvements

8/20/2019

Section D - Game Farm Rd. to Forest Home Dr.

Upsize 1,440 LF of pipe from 8" to 12"

Item Description	Quantity	Unit	Unit Cost	Sub Total
General Requirements				
Mobilization	1	LS	\$10,000	\$10,000
Maintenance and Protection of Traffic	1	LS	\$5,000	\$5,000

Water Distribution System

12" CL 52 DIP 4.5' Cover (Remove old 8" DIP, hyd and fittings)	1,440	LF	\$170	\$244,800
Hydrant Assembly and Guard Valve on New Main	3	EA	\$5,500	\$16,500
12" Valve and Box	4	EA	\$8,000	\$32,000
Connection to Existing Main	2	EA	\$8,000	\$16,000
Service Reconnections 6"	2	EA	\$4,000	\$8,000
Service Reconnections 1"	8	EA	\$1,200	\$9,600
Temporary 4" Water Main	1	LS	\$25,000	\$25,000
Testing and Chlorination	1,440	LF	\$1	\$1,440

Site Improvements and Restoration

Lawn Restoration	1,600	SY	\$10	\$16,000
Asphalt Repair	40	SY	\$110	\$4,400

Construction Total			\$388,740
Professional Services (survey, engineering, attorney, const. admin.)	15%		\$58,311
Construction Contingency	25%		\$97,185
Estimated Total Construction Cost			\$544,236

Preliminary Opinion of Probable Construction Cost

6 - Town of Dryden Water Infrastructure Improvements

8/20/2019

Section E - Forest Home Dr. To 959 Dryden Rd. (Trinitas Site)

Upsize 2,050 LF of pipe from 8" to 12"

Item Description	Quantity	Unit	Unit Cost	Sub Total
General Requirements				
Mobilization	1	LS	\$10,000	\$10,000
Maintenance and Protection of Traffic	1	LS	\$5,000	\$5,000

Water Distribution System

12" CL 52 DIP 4.5' Cover (Remove old 8" DIP, hyd and fittings)	2,050	LF	\$170	\$348,500
Hydrant Assembly and Guard Valve on New Main	2	EA	\$5,500	\$11,000
Connection to Existing Main	2	EA	\$8,000	\$16,000
Service Reconnections 8"	1	EA	\$5,000	\$5,000
Service Reconnections 6"	1	EA	\$4,000	\$4,000
Service Reconnections 1"	14	EA	\$1,200	\$16,800
Temporary 4" Water Main	1	LS	\$25,000	\$25,000
Testing and Chlorination	2,050	LF	\$1	\$2,050
Boring under Rte. 366	1	LS	\$25,000	\$25,000

Site Improvements and Restoration

Lawn Restoration	1,830	SY	\$10	\$18,300
Asphalt Repair	260	SY	\$110	\$28,600

Construction Total			\$515,250
Professional Services (survey, engineering, attorney, const. admin.)		15%	\$77,288
Construction Contingency		25%	\$128,813
Estimated Total Construction Cost			\$721,350

T.G. MILLER, P.C.

ENGINEERS AND SURVEYORS

Preliminary Opinion of Probable Construction Cost

Town of Dryden - Water Infrastructure Improvement Summary

8/20/2019

#	Project Description	Project Cost
1	Apple Orchard PRV Station Upsize PRV to provide increased fire flow.	\$69,300
2	Monkey Run Pump Station New PRV Station to Backfeed Varna	\$149,520
3	Section C- Apple Orchard PRV (Valve F0720M) to Game Farm Rd. Upsize 2,680 LF of pipe from 8" to 12"	\$880,152
4	Section D - Game Farm Rd. to Forest Home Dr. Replace 1,440 LF of 8" pipe with 8" pipe	\$339,556
5	Section D - Game Farm Rd. to Forest Home Dr. Upsize 1,440 LF of pipe from 8" to 12"	\$544,236
5a	Difference between #4 and #5	\$204,680
6	Section E - Forest Home Dr. To 959 Dryden Rd. (Trinitas Site) Upsize 2,050 LF of pipe from 8" to 12"	\$721,350
Total for Increased Fire Flow Capacity (2, 3, 5a, 6)		\$1,955,702

Note: Each estimate assumes a 15% professional services fee and 25% construction contingency.