VILLAGE OF TARRYTOWN BOARD OF TRUSTEES WORK SESSION 6:00 P.M. WEDNESDAY, OCTOBER 28, 2015 Tarrytown Village Hall

One Depot Plaza, Tarrytown, New York

Board of Trustees Concerns

Open Session

- 1. Loh Park Flood Mitigation Project
- 2. Election Resolution
- 3. Change Date for Next Work Session
- 4. Water Rates
- 5. Stop Sign Request Glen Street/Miller Avenue
- 6. Handicapped Parking Space Kaldenberg Place
- 7. Parking South Depot Parking Lot
- 8. Fire Department Membership Changes

Executive Session

- 1A. Village Elections
- 2A. Planning Board Procedures
- 3A. Personnel DPW
- 4A. CitiBank Parking



Site Planning
Civil Engineering
Landscape Architecture
Land Surveying
Transportation Engineering

Environmental Studies Entitlements Construction Services 3D Visualization Laser Scanning ŀ

October 21, 2015

Honorable Mayor Drew Fixell and Members of the Village of Tarrytown Board of Trustees One Depot Plaza Village of Tarrytown, NY

RE: JMC Project 10031

Drainage Improvement Project South Broadway, Loh Avenue and Vicinity Village of Tarrytown, NY

Village Board of Trustee Submission

Dear Mayor Fixell and Members of the Board of Trustees:

We are pleased to enclose two (2) full size copies and eight (8) half size copies of the following drawings for your review regarding the above-mentioned project. The drawings have been modified based on comments received by the Westchester County Department of Public Works and the State Historic Preservation Office (SHPO).

1. JMC Drawings:

Dwg. No.	<u>Title</u>	Rev. #/Date	
D-I	"Stormwater Detention Study"	10/20/2015	
EX-I	"Loh Park Existing Conditions Map"	10/20/2015	
OP-I	"Loh Park Detention Option #1"	10/20/2015	
OP-2	"Loh Park Detention Option #2"	10/20/2015	
OP-3	"Loh Park Detention Option #3"	10/20/2015	

2. Preliminary Budget Construction Estimates for Loh Park Detention Option#1, Option#2, and Option#3 dated 10/20/2015.

The Village of Tarrytown went through a SEQRA process during the early stages of the project in which all the interested agencies were satisfied with the proposed action. Since then drainage alignment modifications due to impacted property owner's comments have been made. The plan had to change significantly, therefore the plan was presented to the various interested agencies to explain the changes.

After review of the modified documents the Westchester County Department of Public Works (WCDPW) and the State Historic Preservation Office (SHPO) had comments the Design was not able to satisfy.

The WCDPW commented about the increase of peak rates of runoff at the projects discharge point, which occurs when the upstream flooding is conveyed to the proposed piped, eliminating the flooding but increasing peak rates of runoff downstream.

SHPO commented on our proposed connection to the existing arched culvert located underneath the Old Croton Aqueduct. SHOP will allow us to connect to the existing culvert with the condition that the existing headwalls at either end of the culvert not be damaged. Given the large size of the pipe required at this location the proposed connection would not be possible.

To be able to satisfy these two comments, the implementation of a stormwater detention system will be required at some point within the proposed drainage alignment.

We studied three potential sites where detention might be possible to mitigate the increase in peak rates of runoff and reduction of proposed pipe sizes. As shown on drawing D-I we studied the following areas:

- Study Area #1 Expanding the existing pond at the First Church of Christ Scientist Tarrytown
- Study Area #2 Construction of a detention system at Loh Park on the intersection of Loh Avenue and Leroy Avenue
- Study Area #3 Expanding of the existing pond at 205 South Broadway Avenue.

After exploring each of the detention study areas we recommend the construction of a detention system at LOH Park, which will mitigate the comments of both mentioned agencies as well as help lower the estimated cost of construction due to the achievable decrease in pipe size and the reduction of work scope. There are also reductions in cost due to the re-use of existing stormwater infrastructure as part of the proposed conveyance system.

Having determined that Loh Park is the best suited place to construction a detention system, we have developed three (3) stormwater detention options for this area:

- Option #1 Drawing OP-1: this plan proposes the construction of a 3-4 foot deep pond surrounded by a fence. We proposed to extend the existing stream trough the pond and implement the use of an outlet control structure to start detaining water within the pond once a high rate rain even occurs.
- Option #2 Drawing OP-2: this plan proposed the construction of a 3 foot deep pond graded at a gentle slope and without a fence. This option diverts the existing stream base flow through a piping system and once a rain even occurs stormwater will be diverted to the proposed pond. This option will allow the use of the pond area to some extend by the public, and will only see water accumulation within the pond area during a 10 Year storm event. The pond will have a maximum water elevation of 3 feet during a 100 Year storm event.

Option #3 – Drawing OP-3: this plan proposes the construction of a subsurface detention system. This option diverts the existing stream base flow through a piping system and diverts water to the underground detention when a rain even occurs. This option provides the least change to the existing park since the detention system will be underground and the proposed ground grades will only be altered slightly and the area will remain an open space.

We look forward to presenting this project changes at your next Village Board of Trustees meeting to be held on 10/28/2015. In the interim, if you have any questions or require any additional information, please do not hesitate to contact our office at (914) 273-5225.

Sincerely,

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC

Juan Yepes Design Manager

cc: Mr. Michael Blau, w/enc.

Mr. Michael McGarvey, w/enc.

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

SP-1 Thru SP-25 dated 03/10/2015

Type of Estimate: Preliminary Budget Estimate (Draft)

Site Planning Civil Engineering Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies

Entitlements

Construction Services

3D Visualization Laser Scanning

Job No:

10031

10/20/2015

Date:

DC

Cmp'd: Chk'd:

JΥ

OVERALL DRAINAGE PROJECT SUMMARY

OPTION #1

Assumptions:

This Estimate does not include: As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation, 'Bonds, Unsuitable Soils or Construction Supervision

		OVERALL	LOH AVENUE	SECTION
ITEM NO.	CLASSIFICATION OF WORK	DRAINAGE PROJECT	BRIDGES	TOTAL
1.00	Site Preparation	\$49,000.00	\$5,000.00	
	·			\$54,000.00
2.00	Demo	\$49,280.00	\$68,980.00	
				\$118,260.00
3.00	Maint/Protection of Traffic	\$40,000.00	\$5,000.00	
				\$45,000.00
4.00	Storm Drainage	\$708,860.00	\$205,520.00	
				\$914,380.00
5.00	Other utility work	\$33,000.00	\$28,550.00	
				\$61,550.00
6.00	Pavement	\$76,580.00	\$28,290.00	
				\$104,870.00
	Sediment removal from existing ponds at			
7.00	Prospect/Benedict Ave. and South Broadway(from Village estimate)	\$240,000.00	~	
	Stream Restoration		\$104,500.00	
			ψ101,000.00	\$344,500.00
8.00	Miscellaneous Construction	\$63,200.00	\$4,600.00	40-1-1,000.00
			\$ 11000.00	\$67,800.00
9.00	Landscape/Hardscape	\$5,000.00	-	
				\$5,000.00
10.00	Professional Services	\$345,000.00	\$16,000.00	
				\$361,000.00
	Project Phase Subtotal	\$1,609,920.00	\$466,440.00	
		7.1111	PROJECT SUBTOTAL	\$2,076,360.00

Miscellaneous Other Work

2% Mobilization

3% Bonds, ins

TOTAL PROJECT COST

\$200,000.00

\$41,527.20

\$62,290.80

\$2,380,178.00

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Assumptions:

This Estimate does not include:

Bonds, Unsuitable Soils or Construction Supervision

Site Planning Civil Engineering

Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies Entitlements

Construction Services

3D Visualization Laser Scanning

Job No: 10031

Date: 10/20/2015

Cmp'd: DC

Chk'd: JΥ

OVERALL DRAINAGE IMPROVEMENT PROJECT

OPTION #1

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

				UNIT		SECTION
ІТЕМ NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
1.00	Site Preparation					
1.01	Sediment and Erosion Control	ALLOW	-	ALLOW	\$49,000.00	
						\$49,000.00
2.00	Demo					
2.01	Remove Existing Pavement	861	SY	\$30.00	\$25,830.00	
2.02	Remove Existing storm pipe	239	LF	\$50.00	\$11,950.00	
2.03	Remove Manholes	11	EA	\$2,500.00	\$2,500.00	
2.04	Tree removal	ALLOW	-	ALLOW	\$9,000.00	
						\$49,280.00
3.00	Maint/Protection of Traffic					
3.01	Maint/Protection of Traffic work in Broadway	ALLOW		ALLOW	\$20,000.00	
3.02	Maint/Protection of Traffic work elsewhere	ALLOW		ALLOW	\$20,000.00	
						\$40,000.00
4.00	Storm Drainage					
4.01	Curb Inlet	2	EA	\$5,000.00	\$10,000.00	
4.02	Concrete Head Wall	1	EA	\$8,000.00	\$8,000.00	
4.03	10" HDPE Pipe	_ 11	LF	\$60.00	\$660.00	
4.04	12" HDPE Pipe	16	LF	\$60.00	\$960.00	
4.05	15" HDPE Pipe	228	LF	\$80.00	\$18,240.00	
4.06	18" HDPE Pipe	24	LF	\$100.00	\$2,400.00	
4.07	36" HDPE	563	LF	\$300.00	\$168,900.00	
4.08	42" HDPE	325	LF	\$350.00	\$113,750.00	
4.09	34"x53" Concrete Ellipse Pipe	63	LF	\$300.00	\$18,900.00	
4.10	4' Diameter Drainage Manhole	1	EA	\$5,000.00	\$5,000.00	
4.11	7' Diameter Drainage Manhole	9	EA	\$8,500.00	\$76,500.00	
4.12	Connection to Existing structure	2	EA	\$3,000.00	\$6,000.00	
4.13	Head Wall Trash Rack	1	EA	\$3,000.00	\$3,000.00	

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Assumptions:

This Estimate does not include:

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

Bonds, Unsuitable Soils or Construction Supervision

Site Planning Civil Engineering

Landscape Architecture Land Surveying

Transportation Engineering

Environmental Studies Entitlements Construction Services 3D Visualization

Laser Scanning

Job No: 10031

Date: 10/20/2015

DC Cmp'd: JΥ Chk'd:

OVERALL DRAINAGE IMPROVEMENT PROJECT

OPTION #1

				UNIT		SECTION
ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
	Detention Pond Loh Park - Option #1					
4.13	Outlet Control Structure	1	EA	\$10,000.00	\$10,000.00	
4.14	Excavation (General)	2,000	CY	\$30.00	\$60,000.00	
4.15	Excavation (Rock)	500	CY	\$125.00	\$62,500.00	
4.16	Stone for swale entering Pond	30	CY	\$100.00	\$3,000.00	
4.17	Rip Rap	186	LF	\$500.00	\$93,000.00	
4.18	Topsoil Seed and Mulch Disturbed Areas	2,800	SY	\$10.00	\$28,000.00	
4.19	Wetland Lanscaping	1,500	SF	\$1.50	\$2,250.00	
4.20	Fence	445	LF LF	\$40.00	\$17,800.00	
						\$708,860.00
5.00	Other utility work					
5.01	Utility Concrete Encasement	ALLOW		ALLOW	\$3,000.00	
5.02	Existing utilities relocation	ALLOW		ALLOW	\$30,000.00	
						\$33,000.00
6.00	Pavement					
6.01	NYSDOT Asphalt Pavement	60	SY	\$65.00	\$3,900.00	
6.02	Town Road Asphalt Pavement	511	SY	\$45.00	\$22,995.00	
6.03	Parking Lot Asphalt Pavement	222	SY	\$35.00	\$7,770.00	·
6.04	Sidewalk Replacement	259	SY	\$90.00	\$23,310.00	
6.05	Concrete Curb Replacement	569	LF	\$35.00	\$19,915.00	
6.06	Mill and resurface pavement	731	SY	\$35.00	\$25,585.00	
						\$76,580.00
7.00	Sediment removal from existing ponds at			<u> </u>		
	Prospect/Benedict Ave. and South Broadway					
	(from Village estimate)	800	CY	\$300.00	\$240,000.00	\$240,000.00

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Assumptions:

This Estimate does not include:

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

Bonds, Unsuitable Soils or Construction Supervision

Site Planning Civil Engineering Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies Entitlements

Construction Services 3D Visualization

Laser Scanning

10031 Job No:

Date: 10/20/2015

Cmp'd:

JΥ Chk'd:

DC

OVERALL DRAINAGE IMPROVEMENT PROJECT

OPTION #1

				UNIT		SECTION
ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
8.00	Miscellaneous Construction					
8.01	Fence replacement	300	LF	\$40.00	\$12,000.00	
8.02	Topsoil Seed and Mulch Disturbed Areas	2,120	SY	\$10.00	\$21,200.00	
8.04	Survey - construction layout	ALLOW		ALLOW	\$15,000.00	
8.05	Survey - As-built	ALLOW		ALLOW	\$15,000.00	
						\$63,200.00
9.00	Landscape/Hardscape					
9.01	South Broadway Landscaping	ALLOW	-	ALLOW	\$5,000.00	
						\$5,000.00
10.00	Professional Services					
10.01	Surveying, Engineering Services (Civil, Geotechnical and Structural), Landscape Architecture Design services	ALLOW	_		\$300,000.00	
10.02	Construction administration - Bid coordination, Shop drawings, weekly construction meetings	ALLOW	-		\$40,000.00	
10.03	Utility Markout	ALLOW	-		\$5,000.00	
						\$345,000.0
					SUBTOTAL	\$1,609,920.0
	1		1			

Miscellaneous Other Work 2% Mobilization 3% Bonds, ins DRAINAGE PROJECT COST

\$170,000.00 \$32,198.40 \$48,297.60 \$1,860,416.00

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Site Planning

Civil Engineering

Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies

Entitlements

Construction Services

3D Visualization

Laser Scanning

Job No:

10031

Date:

10/20/2015

Cmp'd:

DC

Chk'd: JΥ **OVERALL DRAINAGE PROJECT SUMMARY**

OPTION #2

Assumptions:

This Estimate does not include: As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation, 'Bonds, Unsuitable Soils or Construction Supervision

	· ·	OVERALL	LOH AVENUE	SECTION
ITEM NO.	CLASSIFICATION OF WORK	DRAINAGE PROJECT	BRIDGES	TOTAL
1.00	Site Preparation	\$49,000.00	\$5,000.00	
				\$54,000.00
2.00	Demo	\$49,280.00	\$68,980.00	
				\$118,260.00
3.00	Maint/Protection of Traffic	\$40,000.00	\$5,000.00	
				\$45,000.00
4.00	Storm Drainage	\$714,810.00	\$205,520.00	
				\$920,330.00
5.00	Other utility work	\$33,000.00	\$28,550.00	
		·		\$61,550.00
6.00	Pavement	\$76,580.00	\$28,290.00	
				\$104,870.00
	Sediment removal from existing ponds at			
7.00	Prospect/Benedict Ave. and South Broadway(from Village estimate)	\$240,000.00	-	
	Stream Restoration		\$104,500.00	
· · · · · · · · · · · · · · · · · · ·			V10 1,000.00	\$344,500.00
8.00	Miscellaneous Construction	\$63,200.00	\$4,600.00	
****	Interest and a constitution	400,200,00		\$67,800.00
9.00	Landscape/Hardscape	\$5,000.00	-	
:				\$5,000.00
10.00	Professional Services	\$345,000.00	\$16,000.00	
				\$361,000.00
	Project Phase Subtotal	\$1,615,870.00	\$466,440.00	
			PROJECT SUBTOTAL	\$2,082,310.00

Miscellaneous Other Work

2% Mobilization

3% Bonds, ins

TOTAL PROJECT COST

\$200,000.00

\$41,646.20

\$62,469.30

\$2,386,425.50

F:\2010\10031\ESTIMATES\2015-10-15_DC (POND OPTIONS)\COMBINED FOR SUMMARY-OPTION-2.xlsx



Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Assumptions:

This Estimate does not include:

Bonds, Unsuitable Soils or Construction Supervision

Site Planning Civil Engineering

Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies Entitlements

Construction Services 3D Visualization Laser Scanning

Job No: 10031

Date:

10/20/2015

DC Cmp'd:

Chk'd: JΥ

OVERALL DRAINAGE IMPROVEMENT PROJECT

OPTION #2

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

				UNIT		SECTION
ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
1.00	Site Preparation					
1.01	Sediment and Erosion Control	ALLOW	-	ALLOW	\$49,000.00	
						\$49,000.00
2.00	Demo					
2.01	Remove Existing Pavement	861	SY	\$30.00	\$25,830.00	
2.02	Remove Existing storm pipe	239	LF	\$50.00	\$11,950.00	
2.03	Remove Manholes	1	EA	\$2,500.00	\$2,500.00	
2.04	Tree removal	ALLOW	•	ALLOW	\$9,000.00	
						\$49,280.00
3.00	Maint/Protection of Traffic					
3.01	Maint/Protection of Traffic work in Broadway	ALLOW	-	ALLOW	\$20,000.00	
3.02	Maint/Protection of Traffic work elsewhere	ALLOW	•	ALLOW	\$20,000.00	
						\$40,000.00
4.00	Storm Drainage					
4.01	Curb Inlet	2	EA	\$5,000.00	\$10,000.00	
4.02	Concrete Head Wall	1	EA	\$8,000.00	\$8,000.00	
4.03	10" HDPE Pipe	11	LF	\$60.00	\$660.00	
4.04	12" HDPE Pipe	16	LF	\$60.00	\$960.00	
4.05	15" HDPE Pipe	228	LF	\$80.00	\$18,240.00	
4.06	18" HDPE Pipe	24	LF	\$100.00	\$2,400.00	
4.07	36" HDPE	563	LF	\$300.00	\$168,900.00	
4.08	42" HDPE	325	LF	\$350.00	\$113,750.00	
4.09	34"x53" Concrete Ellipse Pipe	63	LF	\$300.00	\$18,900.00	
4.10	4' Diameter Drainage Manhole	1	EA	\$5,000.00	\$5,000.00	
4.11	7' Diameter Drainage Manhole	9	EA	\$8,500.00	\$76,500.00	
4.12	Connection to Existing structure	2	EA	\$3,000.00	\$6,000.00	
4.13	Head Wall Trash Rack	1	EA	\$3,000.00	\$3,000.00	

F:\2010\10031\ESTIMATES\2015-10-15_DC (POND OPTIONS)\COMBINED FOR SUMMARY-OPTION-2.xlsx



Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Assumptions:

This Estimate does not include:

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

Bonds, Unsuitable Soils or Construction Supervision

Site Planning Civil Engineering Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies Entitlements Construction Services 3D Visualization

Laser Scanning

Job No: 10031

10/20/2015 Date:

DÇ Cmp'd: Chk'd: JΥ

OVERALL DRAINAGE

IMPROVEMENT PROJECT

OPTION #2

·····				UNIT		SECTION
ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
	Detention Pond Loh Park - Option #2					
4.14	Outlet Control Structure	1	EA	\$10,000.00	\$10,000.00	
4.15	Diversion Structure	1	EA	\$15,000.00	\$15,000.00	
4.16	Excavation (General)	1,200	CY	\$30.00	\$36,000.00	
4.17	Head Wall	2	EA	\$8,000.00	\$16,000.00	
4.18	Excavation (Rock)	500	CY	\$125.00	\$62,500.00	
4.19	Rip Rap	126	<u>L</u> F	\$500.00	\$63,000.00	
4.20	Topsoil Seed and Mulch Disturbed Areas	3,000	SY	\$10.00	\$30,000.00	······································
4.21	Perimeter Lanscaping	ALLOW		ALLOW	\$50,000.00	
						\$714,810.0
5.00	Other utility work					
5.01	Utility Concrete Encasement	ALLOW		ALLOW	\$3,000.00	
5.02	Existing Utilities Relocation	ALLOW		ALLOW	\$30,000.00	
						\$33,000.0
6.00	Pavement					
6.01	NYSDOT Asphalt Pavement	60	SY	\$65.00	\$3,900.00	
6.02	Town Road Asphalt Pavement	511	SY	\$45.00	\$22,995.00	
6.03	Parking Lot Asphalt Pavement	222	SY	\$35.00	\$7,770.00	
6.04	Sidewalk Replacement	259	SY	\$90.00	\$23,310.00	
6.05	Concrete Curb Replacement	569	LF	\$35.00	\$19,915.00	
6.06	Mill and resurface pavement	731	SY	\$35.00	\$25,585.00	
						\$76,580.0
7.00	Sediment removal from existing ponds at					
************	Prospect/Benedict Ave. and South Broadway					
	(from Village estimate)	800	CY	\$300.00	\$240,000.00	\$240,000.0

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Assumptions:

This Estimate does not include:

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

Ronds, Unsuitable Soils or Construction Supervision

Site Planning Civil Engineering

Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies

Entitlements

Construction Services

3D Visualization Laser Scanning

Job No: 10031

Date: 10/20/2015

DC

Cmp'd:

JY Chk'd:

OVERALL DRAINAGE IMPROVEMENT PROJECT

OPTION #2

ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	UNIT PRICE	AMOUNT	SECTION TOTAL
8.00	Miscellaneous Construction					
8.01	Fence replacement	300	LF	\$40.00	\$12,000.00	······
8.02	Topsoil Seed and Mulch Disturbed Areas	2,120	SY	\$10.00	\$21,200.00	
8.04	Survey - construction layout	ALLOW		ALLOW	\$15,000.00	
8.05	Survey - As-built	ALLOW		ALLOW	\$15,000.00	
						\$63,200.00
9.00	Landscape/Hardscape					
9.01	South Broadway Landscaping	ALLOW		ALLOW	\$5,000.00	
						\$5,000.0
10.00	Professional Services					
10.01	Surveying, Engineering Services (Civil, Geotechnical and Structural), Landscape Architecture Design services	ALLOW	•		\$300,000.00	
10.02	Construction administration - Bid coordination, Shop drawings, weekly construction meetings	ALLOW	_		\$40,000.00	
10.03	Utility Markout	ALLOW	-		\$5,000.00	
						\$345,000.0
		**************************************			SUBTOTAL	\$1,615,870.0

Miscellaneous Other Work 2% Mobilization 3% Bonds, ins DRAINAGE PROJECT COST

\$170,000.00 \$32,317.40 \$48,476.10 \$1,866,663.50

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Site Planning

Civil Engineering

Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies

Entitlements

Construction Services

3D Visualization

Laser Scanning

Job No:

10031

Date:

10/20/2015

Cmp'd: Chk'd:

DC JΥ

OVERALL DRAINAGE PROJECT SUMMARY

OPTION #3

Assumptions:

This Estimate does not include: As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation, 'Bonds, Unsuitable Soils or Construction Supervision

	·	OVERALL	LOH AVENUE	SECTION
ITEM NO.	CLASSIFICATION OF WORK	DRAINAGE PROJECT	BRIDGES	TOTAL
1.00	Site Preparation	\$49,000.00	\$5,000.00	
				\$54,000.00
2.00	Demo	\$49,280.00	\$68,980.00	
				\$118,260.00
3.00	Maint/Protection of Traffic	\$40,000.00	\$5,000.00	
				\$45,000.00
4.00	Storm Drainage	\$782,810.00	\$205,520.00	
				\$988,330.00
5.00	Other utility work	\$33,000.00	\$28,550.00	
				\$61,550.00
6.00	Pavement	\$76,580.00	\$28,290.00	
				\$104,870.00
_	Sediment removal from existing ponds at			
7.00	Prospect/Benedict Ave. and South Broadway(from Village estimate)	\$240,000.00	-	
***************************************	Stream Restoration	φ240,000.00	\$104,500.00	
	OS CATT TOSTOTATION	-	\$104,000.00	\$344,500.00
8.00	Miccollegeous Construction	\$62.200.00	\$4,600.00	\$344,500.00
0.00	Miscellaneous Construction	\$63,200.00	\$4,000.00	\$67,800.00
9.00	Landscape/Hardscape	\$5,000.00	-	\$07,000.00
	Landoupon iardoupo	40,000.00		\$5,000.00
10.00	Professional Services	\$345,000.00	\$16,000.00	40,000,00
				\$361,000.00
	Project Phase Subtotal	\$1,683,870.00	\$466,440.00	*
		1.1,	PROJECT SUBTOTAL	\$2,150,310.00

Miscellaneous Other Work 2% Mobilization 3% Bonds, ins

TOTAL PROJECT COST

\$200,000.00

\$43,006.20

\$64,509.30

\$2,457,825.50

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Assumptions:

This Estimate does not include:

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

Bonds, Unsuitable Soils or Construction Supervision

Site Planning
Civil Engineering
Landscape Architecture
Land Surveying

Land Surveying 3D Visualization
Transportation Engineering Laser Scanning

Environmental Studies

Construction Services

Entitlements

Job No: 10031 Date: 10/20/2015 Cmp'd: DC

Chk'd: JY

OVERALL DRAINAGE IMPROVEMENT PROJECT

OPTION #3

				UNIT		SECTION
ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
1.00	Site Preparation					
1.01	Sediment and Erosion Control	ALLOW		ALLOW	\$49,000.00	
						\$49,000.00
2.00	Demo					
2.01	Remove Existing Pavement	861	SY	\$30.00	\$25,830.00	
2.02	Remove Existing storm pipe	239	LF	\$50.00	\$11,950.00	
2.03	Remove Manholes	1	EA	\$2,500.00	\$2,500.00	
2.04	Tree removal	ALLOW	-	ALLOW	\$9,000.00	
						\$49,280.00
3.00	Maint/Protection of Traffic					
3.01	Maint/Protection of Traffic work in Broadway	ALLOW	-	ALLOW	\$20,000.00	
3.02	Maint/Protection of Traffic work elsewhere	ALLOW	•	ALLOW	\$20,000.00	
						\$40,000.00
4.00	Storm Drainage					
4.01	Curb Inlet	2	EA	\$5,000.00	\$10,000.00	
4.02	Concrete Head Wall	1	EA	\$8,000.00	\$8,000.00	
4.03	10" HDPE Pipe	11	LF	\$60.00	\$660.00	
4.04	12" HDPE Pipe	16	LF	\$60.00	\$960.00	
4.05	15" HDPE Pipe	228	LF	\$80.00	\$18,240.00	
4.06	18" HDPE Pipe	24	LF	\$100.00	\$2,400.00	
4.07	36" HDPE	563	LF	\$300.00	\$168,900.00	
4,08	42" HDPE	325	LF	\$350.00	\$113,750.00	
4.09	34"x53" Concrete Ellipse Pipe	63	LF	\$300.00	\$18,900.00	
4.10	4' Diameter Drainage Manhole	1	EA	\$5,000.00	\$5,000.00	
4.11	7' Diameter Drainage Manhole	9	EA	\$8,500.00	\$76,500.00	
4.12	Connection to Existing structure	2	EA	\$3,000.00	\$6,000.00	

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Drainage Investigation -

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

Assumptions:

This Estimate does not include:

Site Planning Civil Engineering

Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies Entitlements

Construction Services

3D Visualization Laser Scanning

Job No: 10031

Date:

10/20/2015

DC

Cmp'd:

Chk'd: JΥ

OVERALL DRAINAGE IMPROVEMENT PROJECT

OPTION #3

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation, Bonds, Unsuitable Soils or Construction Supervision

	Series, enectade com a construction again tool			UNIT		SECTION
ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
4.13	Head Wall Trash Rack	1	EA	\$3,000.00	\$3,000.00	
	Underground Detention Pond Loh Park - Option #3					
4.14	Outlet Control Structure	1	EA	\$10,000.00	\$10,000.00	
4.15	Diversion Structure	1	EA	\$15,000.00	\$15,000.00	
4.16	Head Wall	1	EA	\$8,000.00	\$8,000.00	
4.17	Stormtech system	7,500	SF	\$30.00	\$225,000.00	
4.18	Excavation Rock	500	CY	\$125.00	\$62,500.00	
4.19	Topsoil Seed and Mulch Disturbed Areas	3,000	SY	\$10.00	\$30,000.00	
						\$782,810.00
5.00	Other utility work					···
5.01	Utility Concrete Encasement	ALLOW		ALLOW	\$3,000.00	
5.02	Existing utilities relocation	ALLOW		ALLOW	\$30,000.00	
						\$33,000.00
6.00	Pavement					
6.01	NYSDOT Asphalt Pavement	60	SY	\$65.00	\$3,900.00	
6.02	Town Road Asphalt Pavement	511	SY	\$45.00	\$22,995.00	
6.03	Parking Lot Asphalt Pavement	222	SY	\$35.00	\$7,770.00	
6.04	Sidewalk Replacement	259	SY	\$90.00	\$23,310.00	
6.05	Concrete Curb Replacement	569	LF	\$35.00	\$19,915.00	
6.06	Mill and resurface pavement	731	SY	\$35.00	\$25,585.00	
						\$76,580.00
7.00	Sediment removal from existing ponds at					
	Prospect/Benedict Ave. and South Broadway					
	(from Village estimate)	800	CY	\$300.00	\$240,000.00	\$240,000.00
]		

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Assumptions:

Type of Estimate: Preliminary Budget Estimate (Draft)

SP-1 Thru SP-25 dated 03/10/2015

This Estimate does not include:

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

Bonds, Unsuitable Soils or Construction Supervision

Site Planning Civil Engineering Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies Entitlements Construction Services 3D Visualization Laser Scanning

Job No: 10031 Date: 10/20/2015

Cmp'd: DC Chk'd: JΥ

OVERALL DRAINAGE IMPROVEMENT PROJECT

OPTION#3

				UNIT		SECTION
ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
8.00	Miscellaneous Construction					
8.01	Fence replacement	300	LF	\$40.00	\$12,000.00	
8.02	Topsoil Seed and Mulch Disturbed Areas	2,120	SY	\$10.00	\$21,200.00	
8.04	Survey - construction layout	ALLOW		ALLOW	\$15,000.00	
8.05	Survey - As-built	ALLOW		ALLOW	\$15,000.00	
						\$63,200.00
9.00	Landscape/Hardscape					
9.01	South Broadway Landscaping	ALLOW	-	ALLOW	\$5,000.00	
						\$5,000.00
10.00	Professional Services					
10.01	Surveying, Engineering Services (Civil, Geotechnical and Structural), Landscape Architecture Design services	ALLOW	-		\$300,000.00	
10.02	Construction administration - Bid coordination, Shop drawings, weekly construction meetings	ALLOW	-		\$40,000.00	
10.03	Utility Markout	ALLOW	-		\$5,000.00	
						\$345,000.00
					SUBTOTAL	\$1,683,870.00

Miscellaneous Other Work 2% Mobilization 3% Bonds, ins **DRAINAGE PROJECT COST**

\$170,000.00 \$33,677.40 \$50,516.10 \$1,938,063.50

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Assumptions:

Type of Estimate: Preliminary Budget Estimate (Draft)

CD-1 Thru CD-10 dated 03/10/2015

This Estimate does not include:

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

Bonds, Unsuitable Soils or Construction Supervision

Site Planning Civil Engineering

Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies Entitlements

Construction Services 3D Visualization

Laser Scanning

Job No: 10031

Date:

10/20/2015

Cmp'd: DC

JΥ Chk'd:

REPLACEMENT OF LOH AVENUE

BRIDGES

	Bonds, Orsulable 3015 of Constitution 30per			UNIT		SECTION
ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
1.00	Site Preparation					
1.01	Sediment and Erosion Control	ALLOW	-	ALLOW	\$5,000.00	
						\$5,000.00
2.00	Demo					
2.01	Remove Existing Pavement	376	SY	\$30.00	\$11,280.00	
2.02	Remove Existing Bridge	2	EA	\$25,000.00	\$50,000.00	
2.03	Remove Existing 12" water main	55	LF	\$50.00	\$2,750.00	
2.04	Existing 6" gas main removal	59	LF	\$50.00	\$2,950.00	
2.05	Remove Existing storm pipe	20	LF	\$50.00	\$1,000.00	
2.06	Tree removal	ALLOW	-	ALLOW	\$1,000.00	
	•					\$68,980.00
3.00	Maint/Protection of Traffic					
3.02	Maint/Protection of Traffic	ALLOW	-	ALLOW	\$5,000.00	
						\$5,000.00
4.00	Storm Drainage					
4.01	8'-9"' x 2'-6"' Aluminum Box Culvert	60	LF	\$1,500.00	\$90,000.00	
4.02	Concrete Spandrel With Masonry Finish	4	EA	\$25,000.00	\$100,000.00	
4.03	Curb Inlet	1	EA	\$5,000.00	\$5,000.00	
4.04	10" HDPE Pipe	10	LF	\$60.00	\$600.00	
4.05	15" HDPE Pipe	39	LF	\$80.00	\$3,120.00	
4.06	18" HDPE Pipe	38	LF	\$100.00	\$3,800.00	
4.07	Connection to Existing structure	1	EA	\$3,000.00	\$3,000.00	
						\$205,520.00
5.00	Other utility work					
5.01	Water Main	87	LF	\$150.00	\$13,050.00	
5.02	Gas Main	105	LF	\$100.00	\$10,500.00	
5.03	Utility Concrete Encasement	ALLOW		ALLOW	\$5,000.00	
						\$28,550.00
6.00	Pavement					
6.01	Asphalt Pavement	376	SY	\$65.00	\$24,440.00	

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Drainage Investigation

Location:

Benedict Avenue, Loh Avenue And Vicinity

Tarrytown, New York

Drawing Ref.:

Assumptions:

Type of Estimate: Preliminary Budget Estimate (Draft) CD-1 Thru CD-10 dated 03/10/2015

This Estimate does not include:

As-Builts, Permits, Fees, Ground Water Pumping, Hazardous Material Mitigation,

Site Planning

Civil Engineering Landscape Architecture

Land Surveying

Transportation Engineering

Environmental Studies Entitlements

Construction Services

3D Visualization Laser Scanning

Job No:

10031

Date:

10/20/2015

Cmp'd:

DC Chk'd: JΥ

REPLACEMENT OF LOH AVENUE

BRIDGES

Bonds, Unsuitable Soils or Construction Supervision

				UNIT		SECTION
ITEM NO.	CLASSIFICATION OF WORK	QUANTITY	UNIT	PRICE	AMOUNT	TOTAL
6.02	Curb Replacement	110	LF	\$35.00	\$3,850.00	
						\$28,290.00
7.00	Stream Restoration					
7.01	Stream Restoration	209	LF	\$500.00	\$104,500.00	
						\$104,500.00
8.00	Miscellaneous Construction					
8.01	Fence replacement	40	LF	\$40.00	\$1,600.00	
8.02	Survey - construction layout	ALLOW		ALLOW	\$1,000.00	
8.03	Survey - As-built	ALLOW		ALLOW	\$2,000.00	
						\$4,600.00
10.00	Professional Services	····				
10.01	Surveying, Engineering Services (Civil, Geotechnical and Structural), Landscape Architecture Design services	ALLOW	-		\$10,000.00	
10.02	Construction administration - Bid coordination, Shop drawings, weekly construction meetings	ALLOW	-		\$5,000.00	
10.03	Utility Markout	ALLOW	-		\$1,000.00	
						\$16,000.0
					SUBTOTAL	\$466,440.0

Miscellaneous Other Work 2% Mobilization 3% Bonds, ins **BRIDGE PROJECT COST**

\$30,000.00 \$9,328.80 \$13,993.20 \$519,762.00

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INTEROFFICE MEMORANDUM

To:

Michael Blau, Administrator

From:

Carol A. Booth, Village Clerk

Re:

Election Notice

Date:

October 13, 2015

DECLARING THE DATE, POLLING HOURS, DESIGNATED POLLING PLACES WITH RESPECT TO THE VILLAGE ELECTION TO BE HELD ON MARCH 18, 2016

BE IT RESOLVED, that Election Law 4-106(2) requires all villages whose March elections are conducted by the County Board of Elections; submit to the County Board of Elections a list of polling places by November 15, 2015; and

BE IT RESOLVED, that the Village of Tarrytown has the following ten (10) election districts in the Village Election to be held on Tuesday, March 15, 2016; and

BE IT FURTHER RESOLVED that the following polling places be open from 6 a.m. to 9 p.m. on Election Day:

District No. 1 - Riverside Hose Firehouse, 120 Franklin Street, Tarrytown, NY

District No. 2 - Phenix Hose Firehouse, 2 Mechanics Avenue, Tarrytown, NY

District No. 3 - Main Street Firehouse, 50 Main Street, Tarrytown, NY

District No. 4 - First Baptist Church, 56 South Broadway, Tarrytown, NY

District No. 5 - Temple Beth Abraham, 25 Leroy Avenue, Tarrytown, NY

District No. 6 - Village Hall, One Depot Plaza, Tarrytown, NY

District No. 7 - Consolidated Engine Firehouse, 177 Sheldon Avenue, Tarrytown, NY

District No. 55 - Washington Engine Firehouse, 157 White Plains Road, Tarrytown,

District No. 74 - Village Hall, One Depot Plaza, Tarrytown, NY

District No. 76 - Consolidated Engine Firehouse, 177 Sheldon Avenue, Tarrytown, NY

COUNTY, CITY, TOWN OR VILLAGE CLERK'S CERTIFICATE

TO: BOARD OF ELECTION	
TO: POADD OF ELECTION	
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TO. BOADD OF DECTION	
TO POADDOETECTION	
TO. $POAPDOEFICATION$	
TO BOXDING ELECTION	
TAN BANDINANE DI DA'IIIN	
MAN BUT AND A CALIBLE OF HICK	

25 Quarropas Street White Plains, New York 10601

The following public offices under my jurisdiction are to be filled at the Village Election to be held on March 15, 2016 (if "NONE", so state).

March 15, 2016 (IF NONE, 80	state).			
TITLE OF OFFICE TO BE FILLED	IS ELECTION FOR FU OR UNEXPIRED TERM		OATE NEW TERM WILL EXPIRE	
1. Village Trustee	Full Term	Aŗ	oril 2016	
2. Village Trustee	Full Term	April 20	016	
3. Village Trustee	Full Term	April 20	016	
4				A SAME AND
5				
6		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
7				
	SIGNATURI CITY, TOWI		TERTIFYING CLERK FOR LLAGE OF	COUNTY,
	TOWN/CIT	Y/VILL.	AGE/COUNTY	
	THE SEAL (OF YOU	R MUNICIPALITY	
Date				
Office Telephone				
Home Telephone for Emergen	cies			

Kathy Deufemia

From:

Mike Blau

Sent:

Friday, September 25, 2015 12:55 PM

To: Subject: Kathy Deufemia

Attachments:

Letter-Miller Park.pdf

FW: Miller Park

Work Session

From: Scott Brown

Sent: Friday, September 25, 2015 11:54 AM

To: Mike Blau

Subject: Miller Park

I am in receipt of the attached letter from a resident of Miller Park requesting an additional stop sign on Glen St/Miller Ave as well as crosswalks to facilitate crossing by school children from the area.

I would support both suggestions. Please submit to the Board of Trustees for their review and comment. If approved, I will provide the necessary legislation.

Susan Crucy Burkhardt
47 Miller Avenue
Tarrytown, NY 10591
susanburkhardt@optonline.net
914-329-3610

August 31, 2015

Chief Scott Brown Tarrytown Police Department One Depot Plaza Tarrytown, NY 10591

Dear Chief Brown:

I write to request an additional Stop Sign be placed at the intersection of Glenn Street and Miller Avenue. This Stop Sign would make the intersection a three-way stop and force traffic to stop in all directions. Additionally, I request that crosswalks be designated and painted at the intersections of (1) Riverview Ave and Glenn Street and (2) Miller Avenue and Glenn Street.

Over the past few years, the volume of traffic through the Miller Park section of Tarrytown has increased dramatically with the housing developments on the river and the increased number of parking spaces at the train station. Drivers speed through our neighborhood creating a very unsafe environment for our residents. We need to put measurers in place to slow them down and I believe this Stop Sign will help.

Our neighborhood also needs additional crosswalks. With school about to start, and more students walking to school because of busing distances, we need to ensure their safety. As well, commuters walking to the train station and residents walking to downtown need to be safe too. Clearly designated walkways in the busy intersections mentioned above I believe would help greatly.

Your attention to this request is appreciated. If I need to do any further please advise.

Very truly yours,

Susan Crucy Burkhardt

Kathy Deufemia

From:

Kathy Deufemia

Sent:

Wednesday, October 21, 2015 11:22 AM

To:

Mike Blau

Subject:

Hours of Operation

Ilda's Beauty Salon

Tuesday 12-6
Wednesday 12-9
Thursday 9-6
Friday 9-6
Saturday 8:30-6
Sunday 10-4

Closed Monday

Head to Toe Beauty Salon

Wednesday through Saturday 10-6

Will accept customers on other days, times based on appointment.