

KENNETH SCHMITT
Town Supervisor

FRANK D. LOMBARDI
*Town Councilman
Deputy Supervisor*

JOHN D. LUPINACCI
Town Councilman
SUZANNE MC DONOUGH
Town Councilwoman
JONATHAN SCHNEIDER
Town Councilman

TOWN OF CARMEL
TOWN HALL

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 • Fax (845) 628-6836
www.carmelny.org

ANN SPOFFORD
Town Clerk

KATHLEEN KRAUS
Receiver of Taxes

MICHAEL SIMONE
Superintendent of Highways
Tel. (845) 628-7474

AGENDA
TOWN BOARD VOTING MEETING/ TOWN BOARD WORK SESSION
Wednesday, July 24, 2013 7:00pm

Pledge of Allegiance – Moment of Silence

Town Board Voting Meeting:

1. Res: Advertise for Bid for MS4 Drainage Project – St. Michael's Terrace
2. Res: Authorizing Disposal of Equipment
3. Res: Authorizing Request for Proposals

Town Board Work Session:

1. Review of Town Board Minutes July 3 and July 10, 2013
 2. Lt. Brian Karst – Consider Tuition Reimbursement
 3. Justice Court – Consider Application for 2013-2014 JCAP Grant Funding
 4. Mary Ann Maxwell, Town Comptroller - Distribution of LOSAP Annual Report (Length of Service Awards Program- Volunteer Fire Departments)
 5. Ronald Gainer, PE, Town Engineer and Mary Ann Maxwell, Town Comptroller – Discussion of Town of Carmel Special Districts Five-Year Capital Plan
 6. Ronald Gainer, PE, Town Engineer – Consider Contract Amendment for Construction Engineering Services - Carmel Water District #8 Water Main Replacement Project – (\$5,000)
 7. Ronald Gainer, PE, Town Engineer – Consider Awarding of Bid for Town Park Districts – Dam Evaluations
 8. Ronald Gainer, PE, Town Engineer – Consider Proposal for CWD #12 Tommy Court Water Service Replacements
- Public Comment (Three (3) Minutes on Agenda Items Only)
 - Town Board Member Comments

Open Forum:

- Public Comments on New Town Related Business (Three (3) Minutes Maximum per Speaker for Town Residents, Property Owners & Business Owners Only)
- Town Board Member Comments
- Adjournment

#1

RESOLUTION AUTHORIZING ADVERTISING FOR BIDS

RESOLVED that, pursuant to the request of Town Engineer Ronald J. Gainer, P.E., Town Clerk Ann Spofford, is hereby authorized to advertise for bids for the St. Michael's Terrace Year 2 MS4 Drainage Project; and

BE IT FURTHER RESOLVED that the Town Engineer is to furnish detailed specifications for the above to Town Clerk Ann Spofford to be used in conjunction with the Town's general bid conditions and specifications.

Resolution

Offered by: _____

Seconded by: _____

Roll Call Vote

	<u>YES</u>	<u>NO</u>
Jonathan Schneider	_____	_____
John Lupinacci	_____	_____
Suzanne McDonough	_____	_____
Frank Lombardi	_____	_____
Kenneth Schmitt	_____	_____

#2

RESOLUTION AUTHORIZING DISPOSAL OF EQUIPMENT

RESOLVED that the Town Board of the Town of Carmel hereby authorizes the disposal of the following equipment in accordance with Town Law, including but not limited to Town Law §64(2-a):

- Canon Copier Model IR330S Serial# NQJ58950 (Town Clerk's Office)
- Canon Copier Model IR330S Serial# NQJ28681 (Supervisor's Office)
- Oce Imagistics Copier Model IM 3511 Serial#6040973 (Police Department)
- Oce Imagistics Copier Model IM 4511 Serial#6041526 (Town Hall Main Floor)
- Oce Imagistics Copier Model IM 4511 Serial#6041532 (Town Hall Second Floor)

Resolution

Offered by: _____

Seconded by: _____

<u>Roll Call Vote</u>	<u>YES</u>	<u>NO</u>
Jonathan Schneider	_____	_____
John Lupinacci	_____	_____
Suzanne McDonough	_____	_____
Frank Lombardi	_____	_____
Kenneth Schmitt	_____	_____

RESOLUTION AUTHORIZING ADVERTISING FOR BIDS

RESOLVED that, pursuant to the request of Town Engineer Ronald J. Gainer, P.E., Town Clerk Ann Spofford, is hereby authorized to advertise for the purchase and installation of street lamps to be located on the south side of Route 6N in Mahopac; and

BE IT FURTHER RESOLVED that the Town Engineer is to furnish detailed specifications for the above to Town Clerk Ann Spofford to be used in conjunction with the Town's general bid conditions and specifications.

Resolution

Offered by: _____

Seconded by: _____

<u>Roll Call Vote</u>	<u>YES</u>	<u>NO</u>
Jonathan Schneider	_____	_____
John Lupinacci	_____	_____
Suzanne McDonough	_____	_____
Frank Lombardi	_____	_____
Kenneth Schmitt	_____	_____

Ronald J. Gainer, P.E.
Town Engineer



(845) 628-1500
(845) 628-2087
Fax (845) 628-7085

Office of the Town Engineer
60 McAlpin Avenue
Mahopac, New York 10541

MEMORANDUM

TO: Carmel Town Board
FROM: Ronald J. Gainer, PE, Town Engineer
RE: Street Lighting Improvements- Mahopac
Cc:

As directed by the Town Board, this Department has been developing specifications for the installation of 13 Hanover Decorative Street Lamps for installation along the south side of Route 6N in Mahopac. The intention is to mirror the tree/light motif which exists on the north side of that roadway.

Based upon recent results from proposals solicited from this office for work of a similar nature (excavation and piping projects) it is most likely that the pricing for this project will exceed the GML threshold of \$35,000.00. In that case, the Board would have to authorize formal, public bidding in conformance with GML. I therefore recommend that the Board authorize this project for public bid.

At this time, the light standards have been purchased and are in storage. The project scope includes:

- saw cutting and removal of the existing concrete sidewalk to match the line of the existing tree grates;
- installation of electric conduit;
- a new electric meter;
- Installation of the new poles;
- removal and demolition of the existing "Shoe Box" lights; and
- installation of accent pavers over top of the conduit installation to match the appearance of the existing pavers on the north side of 6N.

Funding is contemplated through two sources, being the monies which remain from the NYSDOT Grant under MM#4 (\$32,000.00), and the balance from Good Neighbor funds.

Should the Board have any questions, please don't hesitate to contact my office.

Tel: (845) 628-1500 Fax: (845) 628-7085 email rg@ci.carmel.ny.us

G:\Engineering\Contracts and RFPs\K2013-0004 Electrical Lighting Route 6N\07-23-2013 request for bid TB memo.rtg.doc



Michael R. Johnson
Chief of Police

TOWN OF CARMEL
POLICE DEPARTMENT
60 McAlpin Avenue
Mahopac, New York 10541

(845) 628-1300
Fax (845) 628-2597
www.carmelny.org/police

From The Desk of Lieutenant Brian Karst

To: Supervisor Schmitt

Cc: Town Board
Chief of Police

Re: Tuition Reimbursement

Date: 07/09/13

Dear Supervisor Schmitt,



Pursuant to the Town of Carmel Police Lieutenants Benevolent

Association Collective Bargaining Agreement (CBA), I am submitting

my summer 2013 college tuition bill and transcript to obtain the

contractually guaranteed tuition reimbursement. Per the (CBA)

contract provision, a copy of which is attached hereto, I am

entitled to reimbursement for half of the amount expended for

tuition and books. The tuition bill was \$1,370.35 and books cost

\$41.07 for a total of \$1411.42. This last figure represents the

total costs incurred for the summer 2013 semester at CUNY John Jay

College. The reimbursement amount that I am due according to the

(CBA) contract is 50% of the aforementioned amount or \$705.71. I

appreciate your consideration and if there is any additional

information that you need to process this request please feel free
to contact me.

Lt. Brian Karst

#2

☒ Work Session 7/24/13

☐ Agenda _____

ARTICLE XV
EDUCATION AND TRAINING

A. The Town shall grant a stipend for approved college degree according to the following schedule:

Degree of Associate of Applied Sciences:

Six Hundred (\$600.00) Dollars annually.

Degree of Bachelor of Science:

Nine Hundred (\$900.00) Dollars annually.

B. An Employee must be on the force one (1) year in order to be eligible to be paid the degree stipend.

C. The stipend shall only be paid after the Town Board determines, in its sole discretion, that the fields of study of the degree area are police related; however, such approval will not be denied in order to save money.

D. This stipend shall be paid on the 1st payday following November 1st only for those members eligible for such stipend, in accordance with Sections A-C, on or before November 1st.

TUITION REIMBURSEMENT

A. Reimbursement of fifty percent (50%) of the cost of tuition, required school fees, and books shall be made to employees who complete, with a passing grade, the Police related courses which have been pre-approved for a reimbursement in accordance with Section C above.

B. The Town shall provide, at no cost to the Employee, firearms training at least once per calendar year.

a. An adequate location of the firearms training shall be determined by the Chief



Joseph J. Spofford, Jr.
Town Justice

JUSTICE COURT

Town Of Carmel
Town Hall
60 McAlpin Avenue
Mahopac, New York 10541
Tel. 845-628-1500 Fax: 845-628-4550

Thomas J. Jacobellis
Town Justice

☒ Work Session 7/24/13

☐ Agenda _____

To: Kenneth Schmitt, Town Supervisor
Frank Lombardi
John Lupinacci
Suzanne Mc Donough
Jonathan Schneider

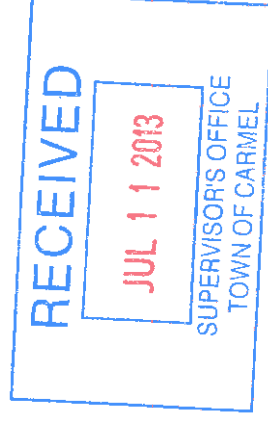
From: Pat Genna *PG*

Re: 2013-2014 Justice Court Assistance Program (JCAP) Grant

Date: July 11, 2013

I am requesting authorization to apply for the 2013-2014 JCAP Grant.
The completed application must be submitted by October 15, 2013.

Thank you.





NEW YORK STATE
Unified Court System

OFFICE OF COURT ADMINISTRATION

RONALD P. YOUNKINS, ESQ.

DEPUTY CHIEF

EUGENE W. MYERS

CHIEF OF CLERKS

NANCY M. SUPPES JUDGE, ESQ.
CLERK OF SUPREME COURT

July 1, 2013

To: All Town and Village Justices,

We are pleased to invite you to apply for a 2013-2014 Justice Court Assistance Program (JCAP) Grant. The State Court System's budget includes \$2.5 million in JCAP funding this fiscal year. The maximum JCAP award is \$30,000 per court. It may be used for a variety of purposes, including office and security equipment, furniture, courtroom and court facility improvements and renovations.

Applications for JCAP Grants may be submitted by the Justice Courts or by Towns and Villages on behalf of the court. Please coordinate your court's application with your clerk(s), Judge(s) and municipality. Applications and accompanying paperwork should be submitted by OCTOBER 15, 2013.

THE APPLICATION ITSELF MUST BE SUBMITTED ONLINE. However, the following items must be submitted either by mail, or faxed to us at 1-518-438-3518, or scanned and e-mailed to jcapi@nycourts.gov.

- Signature Page
- Board Resolution
- Court's Annual Budget
- Estimates

A link to the online grant application can be found on the Town and Village Courts website at www.nycourts.gov/justicecourts. When you click on the online grant application, you must enter an Account Name - which is "court", and a Password - which is "jeap", all lower case letters, to start the application.

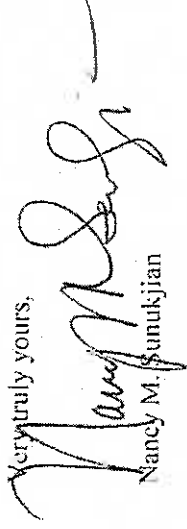
The link directly to the website is:

https://www.nycourtsystem.com/fmi/iwp.cgi?~db=TVJCAP_GRI/APP13_MIE.fp7&-loadframes

If you have any questions about JCAP, or if you need assistance completing the application, please contact the Office of Justice Court Support at 1-800-232-0630.

cc: Hon. Michael V. Cocco
Ronald P. Younkins, Esq.
Eugene W. Myers
Administrative Judges
Supervising Judges
District Executives

Very truly yours,


Nancy M. Suppes

TOWN OF CARMEL
CARMEL AMBULANCE DISTRICT NO. 1
SERVICE AWARD PROGRAM

#4

2013 SPECIAL COMMENTARY

☒ Work Session 7/24/13

☐ Agenda _____

2013 REQUIRED CONTRIBUTION

The minimum required Trust Fund contribution to be made in 2013 is \$46,917.

The required contribution due in 2013 remained roughly the same as the required contribution due in 2012 of \$47,159. Serving to decrease the cost was an actuarial investment gain (the assumed rate of return on the Town's investments was +6.50% while the actual rate for 2012 was +11.33%). Increasing the cost was another year of post-entitlement age accruals being amortized over 3 years.

The program's funded ratio on a program termination basis is 98.66% as of 12/31/2012 compared to 91.45% as of 12/31/2011. The main reason for the increase was the actuarial investment gain. We will continue to monitor the program's funding progress.

2014 ESTIMATED REQUIRED CONTRIBUTION

We expect to see an increase in the minimum required contribution due in 2014 as a result of post EA participants continuing to earn service credit. Please refer to Exhibit VII for an estimate of future minimum required contributions.

SPECIAL NOTES

Non-vested program participants Craig Brandt, Brian Burdick, Thomas Keck Sr., Tamara McArdle and Monica Winne left the Corps. during 2012. Consequently, their accrued service award and service credit earned through 12/31/2012 have been forfeited. However, if any former participant returns as an active member within five years and subsequently earns a year of service credit, their accrued service award and service credit will be restored.

CARMEL AMBULANCE DISTRICT NO. 1
SERVICE AWARD PROGRAM

12/31/2012 FACT SHEET

COMPARISON OF COSTS

	12/31/2011 Calculated Cost	2012 Town Payments	12/31/2012 Calculated Cost
Normal Cost:			
Trustee Fees Paid From Trust:	\$38,271	\$38,271	\$33,385
Admin Fees Paid From Trust:	\$1,873	\$1,873	\$2,046
Post EA Amortization Payment:	\$3,238	\$3,238	\$2,898
Contribution Timing Adjstmt:	\$2,315	\$2,315	\$7,134
	\$1,462	\$1,462	\$1,454
Total Cost:	\$47,159	\$47,159	\$46,917

SERVICE AWARD PROGRAM PARTICIPATION BREAKDOWN

	AS OF 12/31/2011	AS OF 12/31/2012
Retired (post-Entitlement Age) participants:	10	10
Active (pre-Entitlement Age) participants:	37	39
Inactive vested participants:	7	8
Total participants:	54	57
Retired participants earning service credit:	6	6
Retired participants not earning service credit:	4	4
Active participants earning service credit:	33	34
Active participants not earning service credit:	4	5
Inactive vested participants earning service credit:	0	0
Inactive vested participants not earning service credit:	7	8
Non-vested terminations:	0	5
Volunteers Not Participating in Program:	20	20
Participants/beneficiaries who have been paid a Service Award:	10	10

NET INVESTMENT RETURN

Market Value Basis:	2010: 10.13%	2011: 0.20%	2012: 11.33%
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COMPOSITION OF ASSETS & PROGRAM FUNDED STATUS AS OF 12/31/2012

Share of Consolidated Trust Fund held at Assets as of 12/31/2012:	\$449,753
Actuarial Present Value of Accrued Benefits:	\$455,864
Program Funding Ratio:	98.66%

HELP

CARMEL AMBULANCE DISTRICT NO. 1

Please help us to better serve your volunteers.

Upon the death of a participant, Penflex prefers to promptly pay the service award program death benefit directly to the designated beneficiary.

If we do not have on file a copy of a properly completed *Beneficiary Designation Form*, payment is delayed, and in the worst case, receipt of the actual payment by the intended beneficiary could take **years**. If the *Beneficiary Designation Form* was never completed, we must make the check payable to the participant's estate.

Please have the following participants complete a *Beneficiary Designation Form*:

Active Participants:

Christopher Bruenn	Melissa DePass	Robin Donnelly
Kevin Durmer	Ashley Hansen	Jona Healy-Falencki
Peter Jones	Thomas Keck, Jr.	Jim Lowe
Paul Maass	Jennifer Muery	Colleen O'Brien
Thomas Priolo	AnnMarie Repanti	Amanda Telesco
Brian Vigliotti	Andrew Wiese	

Terminated Vested Participants:

Brian Decker	Kimberly Sonnberger
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Please provide us with copies of the participant's completed *Beneficiary Designation Forms*. Please keep the originals on file at the Ambulance Corps.

Prepared on: 3/18/2013

TOWN OF CARMEL
CARMEL AMBULANCE DISTRICT NO. 1
VOLUNTEER AMBULANCE SERVICE AWARD PROGRAM
BENEFICIARY DESIGNATION FORM

By completing this form, you designate who is to receive any death benefit that may be payable under the provisions of the above named service award program. Completing this form does not guarantee that a benefit will be paid upon your death. It is important that you provide all the requested information in the event that we have to attempt to locate your beneficiary. If all of your beneficiaries listed below are deceased, the death benefit will be paid to your estate.

Please consult with an attorney before naming a minor child or your estate as a beneficiary; typically death benefits can not be paid directly to a minor. To name more than 3 primary or contingent beneficiaries, please complete two forms and indicate "page 1 of 2" on the first form and "page 2 of 2" on the second form.

PLEASE PRINT CLEARLY USING BLUE OR BLACK INK

***** PARTICIPANT DATA - PLEASE FILL OUT COMPLETELY *****

Volunteer First Name, MI, Last Name Social Security Number Date of Birth

Volunteer Mailing Address City State Zip Ambulance Company

***** PRIMARY BENEFICIARIES *****

Please list the person or persons you wish to receive the death benefit. If you list more than one person, each person listed will equally share the death benefit, provided they are alive as of your date of death. If one or more of your primary beneficiaries are deceased, the remaining primary beneficiaries will equally split the death benefit. If all of your primary beneficiaries are deceased, the benefit will then be paid to those you list under "CONTINGENT BENEFICIARIES".

First, MI, Last Name Relation Date of Birth Soc. Sec. No. Mailing Address City State Zip

***** CONTINGENT BENEFICIARIES *****

If all of your primary beneficiaries are deceased, the benefit will then be paid to those you list here. If one or more of your contingent beneficiaries are deceased, the remaining contingent beneficiaries will equally split the death benefit.

First, MI, Last Name Relation Date of Birth Soc. Sec. No. Mailing Address City State Zip

***** SIGNATURE AND WITNESS *****

I hereby designate those named above as my beneficiaries and declare that this designation supercedes all previous beneficiary designations.

Volunteer Signature and Date Witness Signature and Date

Witness must be a Notary, or an Official of the Town or Ambulance Company

Town of Carmel
Service Award Program
2012 Cost Summary

Cost Summary			
Carmel FPD No. 1	Carmel FPD No. 2	Carmel FPD No. 3	Total
\$86,674	\$137,414	\$82,020	\$306,108
Post EA Service Amortization Payment:			
\$32,632	\$30,515	\$13,057	\$76,204
\$722	\$949	\$525	\$2,196
Reimbursement of Comerica Administration Fees:			
\$3,548	\$4,993	\$2,826	\$11,367
Contribution Timing Adjustment:			
Minimum Contribution Due by Town During 2013:	\$123,576	\$173,871	\$98,428
Unfunded Post-Entitlement Age Liability:	\$35,124	\$28,452	\$11,949
Maximum Contribution Due by Town During 2013:	\$158,700	\$202,323	\$110,377
			\$75,525
			\$395,875
			\$471,400

**Town of Carmel
Service Award Program**

December 31, 2012 Participant Summary

Carmel FPD No. 1	Carmel FPD No. 2	Carmel FPD No. 3	Total
2012 Participant Service Counts	2012 Participant Service Counts	2012 Participant Service Counts	2012 Participant Service Counts
31	16	21	6
Retired Participants:			
70	68	61	37
Active Participants:			
22	28	14	0
Inactive Vested Participants:			
123	168	96	43
Total:			
2	4	0	0
Non-Vested Terminations:			
12	13	29	0
Volunteers Not Participating in Program:			
137	84	125	43
Total Including Ineligible Volunteers:			
66	185	84	125
66	168	96	387
193	447	193	193

Town of Carmel
Service Award Programs

Statements of Program Net Assets
for the years ended

	12/31/2012	12/31/2011
<u>Assets</u>	<u>Total</u>	<u>Total</u>
Cash & cash alternatives	\$132,826.03	\$361,604.75
Receivables		
Sponsor contributions	0.00	0.00
Interest and dividends	232.62	1,088.90
Total receivables	<u>232.62</u>	<u>1,088.90</u>
Investments at market value		
Equities	0.00	229,055.24
International equities	307,297.08	275,446.58
Fixed income	4,047,978.94	2,910,624.97
Mixed assets	1,781,026.33	1,751,556.63
Other	0.00	0.00
Total investments	<u>6,136,302.35</u>	<u>5,166,683.42</u>
Insurance company contracts		
at contract value	<u>0.00</u>	<u>0.00</u>
Total Assets	6,269,361.00	5,529,377.07
<u>Liabilities</u>		
January monthly payments made prior December	27,660.00	25,320.00
Benefits payable*	<u>(8,748.84)</u>	<u>0.00</u>
Total Liabilities	18,911.16	25,320.00
Net assets held in trust for		
Service Award Program benefits:	\$6,288,272.16	\$5,554,697.07

* Payable to beneficiary of Joseph Repanti who died 12/20/12.

Town of Carmel
Service Award Programs

Statements of Changes in Program Net Assets
for the years ended

	12/31/2012	12/31/2011
	<u>Total</u>	<u>Total</u>
<u>Additions</u>		
Sponsor Contributions	\$422,187.00	\$474,038.00
Investment income		
Net appreciation (depreciation) in market value of investments	364,543.84	(300,494.26)
Interest and Dividends	312,098.85	241,432.56
Change in investment income receivable	<u>(856.28)</u>	<u>(15,601.88)</u>
Less investment expense	675,786.41	(74,663.58)
Net investment income	<u>(29,254.24)</u>	<u>(20,792.54)</u>
	<u>646,532.17</u>	<u>(95,456.12)</u>
Total Additions	1,068,719.17	378,581.88
<u>Deductions</u>		
Benefits	(326,540.00)	(400,904.36)
Change in liabilities	(6,408.84)	44,276.19
Management expense	0.00	0.00
Administrative expense - RIUBS	0.00	(482.00)
Administrative expense - Comerica	<u>(2,195.24)</u>	<u>(261.98)</u>
Total Deductions	(335,144.08)	(357,372.15)
Net increase (decrease)	733,575.09	21,209.73
Net assets held in trust for Service Award Program benefits		
Beginning of year	<u>5,554,697.07</u>	<u>5,533,487.34</u>
End of year	<u>\$6,288,272.16</u>	<u>\$5,554,697.07</u>

Town of Carmel
Service Award Programs

December 31, 2012 Plan Assets Summary

Reconciliation for the Calendar Year 2012				
Carmel FPD No. 1	Carmel FPD No. 2	Carmel FPD No. 3	Total	
Assets as of 1/1/2012:				
\$1,732,102.16	\$2,320,376.64	\$1,502,218.27	\$5,554,697.07	Assets as of 1/1/2012:
\$129,020.00	\$190,445.00	\$102,722.00	\$422,187.00	Contributions Made:
(\$100,060.00)	(\$157,220.00)	(\$69,260.00)	(\$326,540.00)	Benefits Paid:
(\$7,488.84)	\$620.00	\$460.00	(\$6,408.84)	Change in Liabilities:
(\$267.16)	(\$357.64)	(\$231.48)	(\$856.28)	Change in Investment Income Receivable:
\$97,353.09	\$129,932.87	\$84,812.89	\$312,098.85	Net Investment Income Received:
\$113,710.49	\$151,959.13	\$98,874.22	\$364,543.84	Net Appreciation / (Depreciation):
(\$721.57)	(\$948.78)	(\$524.89)	(\$2,195.24)	C Comerica Bank Administration Expense:
(\$9,127.62)	(\$12,177.94)	(\$7,948.68)	(\$29,254.24)	Investment Expense:
Assets as of 12/31/2012:				
\$1,954,520.55	\$2,622,629.28	\$1,711,122.33	\$6,288,272.16	

Composition of Assets as of 12/31/2012

\$1,954,756.86	\$2,609,272.46	\$1,705,099.06	\$6,269,128.38	Share of Investments from RBC Consolidated Statement:
\$0.00	\$0.00	\$0.00	\$0.00	Contribution Receivable:
\$72.53	\$96.82	\$63.27	\$232.62	Accrued Income:
(\$308.84)	\$13,260.00	\$5,960.00	\$18,911.16	Benefits Payable:
\$1,954,520.55	\$2,622,629.28	\$1,711,122.33	\$6,288,272.16	Assets as of 12/31/2012:

Note: The end of year balances listed above represents each Fire Protection District's allocated share of the Trust Fund assets. The end of year balance listed is the actual balance, however due to rounding in the allocation process, the sum of the year's activity may be pennies different than the balance listed.

TOWN OF CARMEL
SERVICE AWARD PROGRAMS

2013 TOWN SPECIAL COMMENTARY

The minimum required contribution to be made in 2013 for all three Service Award Programs in total has been calculated to be \$395,875. The breakdown by fire department is as follows:

Program	2012 Required Contribution
Carmel FPD No. 1	\$123,576
Carmel FPD No. 2	\$173,871
Carmel FPD No. 3	\$98,428
Total	\$395,875

The total required contribution decreased by \$26,312 from the total contribution due in 2012 of \$422,187. The main reason for the decrease was an actuarial investment gain (the assumed rate of investment return on Trust Fund assets is +6.00% while the actual rate earned in 2012 was +11.65%).

We expect to see an increase in the minimum required contribution due in 2014 as a result of an additional liability created by post-EA participants earning service credit. For more details regarding the change in contributions for each specific program as well as a five year projection of required contributions, please refer to the Special Commentary and Exhibit VII of each program.

The funded ratio of the 3 programs combined is 93.41% compared to 86.25% as of last year. The actuarial investment gain helped accelerate the funded ratio. See the chart below for the funded ratios of each program. In calculating the annual cost of the program, the goal is to approach a 100% funded ratio over time. We will continue to monitor the program's funding progress and advise the Town if there is any reason for long or short term concern.

Program	Assets	Present Value Of Accrued Benefits(PVAB)	Funded Ratio (Assets÷PVAB)
Carmel FPD No. 1	\$1,954,521	\$2,114,954	92.41%
Carmel FPD No. 2	\$2,622,629	\$2,861,442	91.65%
Carmel FPD No. 3	\$1,711,122	\$1,755,823	97.45%
Total	\$6,288,272	\$6,732,219	93.41%

TOWN OF CARMEL
CARMEL FIRE PROTECTION DISTRICT NO. 1
SERVICE AWARD PROGRAM
2012 SPECIAL COMMENTARY

2013 REQUIRED CONTRIBUTION

The minimum required Trust Fund contribution to be made in 2013 is \$123,576.

This required contribution is \$5,444 lower than last year's required contribution of \$129,020. This decrease is mainly due to an actuarial investment gain (the assumed rate of investment return is +6.00% while the actual return in 2012 was 11.65%).

The programs funded ratio on a program termination basis is 92% as of 12/31/2012, compared to 86% as of 12/31/2011. This decrease is due to the actuarial investment loss and the increase in participation. We will continue to monitor the funded ratio for the Town.

2014 ESTIMATED REQUIRED CONTRIBUTION

We expect to see an increase in the minimum required Trust Fund contribution due in 2014 as a result of an increase in post-EA participants earning service credit, the cost of which is being amortized over three years. Please refer to Exhibit VII for an estimate of future minimum required contributions.

SPECIAL NOTES

Non-vested participants Taylor Ascone and Kenneth Meury left the Department in 2012; consequently, their accrued service award and service credit have been completely and permanently forfeited as of December 31, 2012.

If a non-vested participant fails to earn service credit for five consecutive years the participant's accrued service award and service credit will be forfeited. Note that Nick Florio has not earned service credit for four consecutive years; his accrued service award and service credit will be forfeited as of 12/31/2013 if he fails to earn service credit in 2013.

Joseph Repanti died during 2012 and his beneficiary was paid a one-time lump sum equal to the present value of his accrued monthly service award.

John Casey (7/2012), William Lindsay (4/2012), and Kevin Neary (2/2012) reached the entitlement age and commenced receiving their monthly service award effective on the dates indicated.

James Fatone and Anthony Larkin were reported to be on military leave during 2012. They may earn up to four years of service credit for being on military leave; however, they must return as an active member to the fire department within one year of being discharged from the military and subsequently earn a year of service credit to be credited with service credit for the military leave.

Volunteers Daniel Fanous and Kenneth Meury Jr. were reported as having earned 50+ points during 2012, but because they were not yet age 18 as of 12/31/2012 they are not eligible to participate in the program.

CARMEL FIRE PROTECTION DISTRICT NO. 1
SERVICE AWARD PROGRAM

12/31/2012 FACT SHEET

COMPARISON OF COSTS

	12/31/2011 Calculated Cost	2012 Payments	12/31/2012 Calculated Cost
Normal Cost:	\$96,523	\$96,523	\$86,674
PEA Service Cost:	\$28,563	\$28,563	\$32,632
Administration Fee Reimbursement:	\$229	\$229	\$722
Contribution Timing Adjustmt:	\$3,705	\$3,705	\$3,548
Trust Fund Contribution:	\$129,020	\$129,020	\$123,576

SERVICE AWARD PROGRAM PARTICIPATION BREAKDOWN

	AS OF 12/31/2011	AS OF 12/31/2012
Retired participants:	28	31
Active participants:	67	70
Inactive vested participants:	23	22
Total participants:	118	123
Retired participants earning service credit:	17	19
Retired participants not earning service credit:	11	12
Active participants earning service credit:	50	47
Active participants not earning service credit:	17	23
Inactive vested participants earning service credit:	0	0
Inactive vested participants not earning service credit:	23	22
Non-vested terminations	5	2
Volunteers Not Participating in Program:	9	12
Participants/beneficiaries who have been paid a Service Award:	37	41

INVESTMENT RETURN

Market Value Basis:	2010: 8.00%	2011: -1.72%	2012: 11.65%
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COMPOSITION OF ASSETS & PROGRAM FUNDED STATUS AS OF 12/31/2012

Assets as of 12/31/2012:	\$1,954,521
Actuarial Present Value of Accrued Benefits:	\$2,114,954
Program Funding Ratio:	92.41%

TOWN OF CARMEL
CARMEL FIRE PROTECTION DISTRICT NO. 2
SERVICE AWARD PROGRAM
2012 SPECIAL COMMENTARY

2013 REQUIRED CONTRIBUTION

The minimum required Trust Fund contribution to be made in 2013 is \$173,871. Note that this amount is slightly more than the contribution amount we relayed in the draft report. This increase is due to a change in the points reported (from under 50 to over 50) for two pre-entitlement age active member participants.

This required contribution is \$16,574 lower than last year's required contribution of \$190,445. This decrease is mainly due to an actuarial investment gain (the assumed rate of investment return is +6.00% while the actual rate earned in 2012 was 11.65%).

The programs funded ratio on a program termination basis is 92% as of 1/1/2013, compared to 84% as of 1/1/2012. This increase is due to the actuarial investment gain. We will continue to monitor the funded ratio for the Town.

2014 ESTIMATED REQUIRED CONTRIBUTION

We expect to see a small increase in the minimum required Trust Fund contribution due in 2014 as a result of an increase in post-EA participants earning service credit; the cost of which is being amortized over three years. Please refer to Exhibit VII for more details.

SPECIAL NOTES

Michael Fernez was again granted 60 points in 2012 for being on a line-of-duty disability.

If a non-vested participant fails to earn service credit for five consecutive years the participant's accrued service award and service credit will be forfeited. Note that Ryan Hope and Down Stasiak have not earned service credit for four consecutive years; their accrued service award and service credit will be forfeited as of 12/31/2013 if they fail to earn service credit in 2013.

Non-vested participants Wolfgang Lawton, Cortney Oliver, Anthony Ortiz and Jessica Weigold left the department in 2012. Consequently, their accrued service award and service credit have been completely and permanently forfeited as of 12/31/2012.

Thomas Beatty (7/2012), Peter Cantone (7/2012) and Jack Zencheck (11/2012) reached the entitlement age and commenced receiving their monthly accrued service award effective on the dates indicated.

Post-entitlement age participants Wallace Ganong, Dino Lorenzini, Richard Pielli and Vincent Roberto Sr. died during 2012. All participants had already received their guaranteed 120 monthly payments; therefore, there was no payment due to their beneficiaries.

CARMEL FIRE PROTECTION DISTRICT NO. 2
SERVICE AWARD PROGRAM

1/1/2013 FACT SHEET

COMPARISON OF COSTS

	1/1/2012 Calculated Cost	2012 Town Payments	1/1/2013 Calculated Cost
Normal Cost:			
PEA Service Cost:	\$151,896	\$151,896	\$137,414
Administration Fee Reimbursement:	\$32,755	\$32,755	\$30,515
Contribution Timing Adjstmnt:	\$326	\$326	\$949
Trust Fund Contribution:	\$5,468	\$5,468	\$4,993
	\$190,445	\$190,445	\$173,871

SERVICE AWARD PROGRAM PARTICIPATION BREAKDOWN

	AS OF 1/1/2012	AS OF 1/1/2013
Retired participants:		
Active participants:	40	39
Inactive vested participants:	101	101
Total participants:	27	28
	168	168
Retired participants earning service credit:	13	16
Retired participants not earning service credit:	27	23
Active participants earning service credit:	64	68
Active participants not earning service credit:	37	33
Inactive vested participants earning service credit:	0	0
Inactive vested participants not earning service credit:	27	28
Non-vested terminations:	3	4
Volunteers Not Participating in Program:	13	13
Participants/beneficiaries who have been paid a Service Award:	50	53

INVESTMENT RETURN

Market Value Basis:	2010: 8.00%	2011: -1.72%	2012: 11.65%
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COMPOSITION OF ASSETS & PROGRAM FUNDED STATUS AS OF 1/1/2013

Assets as of 1/1/2013:	\$2,622,629
Actuarial Present Value of Accrued Benefits:	\$2,861,442
Program Funding Ratio:	91.65%

TOWN OF CARMEL
CARMEL FIRE PROTECTION DISTRICT NO. 3
SERVICE AWARD PROGRAM
2013 SPECIAL COMMENTARY

2013 REQUIRED CONTRIBUTION

The minimum required Trust Fund contribution to be made in 2013 is \$98,428.

This required contribution is \$4,294 less than last year's required contribution of \$102,722. This decrease is mainly due to the actuarial investment gain (the assumed rate of investment return is +6.00% while the actual return in 2012 was 11.65%). However there were six new participants during 2012, which served to increase the cost.

The programs funded ratio on a program termination basis is 97% as of 1/1/2013, compared to 90% as of 1/1/2012. Again, this increase is due to the actuarial investment gain. We will continue to monitor the funded ratio for the Town.

2013 ESTIMATED REQUIRED CONTRIBUTION

We expect to see a small increase in the minimum required Trust Fund contribution due in 2014 as a result of an increase in post-EA participants earning service credit, the cost of which is being amortized over three years. Please refer to Exhibit VII for an estimate of future minimum required contributions.

SPECIAL NOTES

Robert Greene (9/1/2012) and Michael Doherty (1/1/2012) attained the entitlement age and commenced receiving their monthly accrued service awards effective on the dates indicated.

Peter Cornish will attain the entitlement age and be eligible to commence receiving his monthly accrued service award effective 10/1/2013. Please have him complete the *Payment Commencement Form* and mail to us with a copy of his drivers license or other proof of birth date.

CARMEL FIRE PROTECTION DISTRICT NO. 3
SERVICE AWARD PROGRAM

1/1/2013 FACT SHEET

COMPARISON OF COSTS

	1/1/2012 Calculated Cost	2012 Town Payments	1/1/2013 Calculated Cost
Normal Cost:			
PEA Service Cost:	\$86,242	\$86,242	\$82,020
Administration Fee Reimbursement:	\$13,341	\$13,341	\$13,057
Contribution Timing Adjstmnt:	\$189	\$189	\$525
Trust Fund Contribution:	\$2,950	\$2,950	\$2,826
	\$102,722	\$102,722	\$98,428

SERVICE AWARD PROGRAM PARTICIPATION BREAKDOWN

	AS OF 1/1/2012	AS OF 1/1/2013
Retired participants:	20	21
Active participants:	55	61
Inactive vested participants:	15	14
Total participants:	90	96
Retired participants earning service credit:	6	6
Retired participants not earning service credit:	14	15
Active participants earning service credit:	36	37
Active participants not earning service credit:	19	24
Inactive vested participants earning service credit:	0	0
Inactive vested participants not earning service credit:	15	14
Non-vested terminations	0	0
Volunteers Not Participating in Program:	27	29
Participants/beneficiaries who have been paid a Service Award:	31	32

INVESTMENT RETURN

Market Value Basis:	2010: 8.00%	2011: -1.72%	2012: 11.65%
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COMPOSITION OF ASSETS & PROGRAM FUNDED STATUS AS OF 1/1/2013

Assets as of 1/1/2013:	\$1,711,122
Actuarial Present Value of Accrued Benefits:	\$1,755,823
Program Funding Ratio:	97.45%

#5

Pasquerello, Anne

From: Gainer, Ron
Sent: Monday, July 15, 2013 11:32 AM
To: Schmitt, Kenneth; Lombardi, Frank; suzi mcdonough; Suzi McDonough; John Lupinacci; Jonathan Schneider
Cc: Maxwell, Mary Ann; Greg Folchetti; Pasquerello, Anne; Joe Sagnis; Joe Scollan (joe@beeandjay.com); ted@beeandjay.com
Subject: (T) Carmel - Water & Sewer Districts Capital Planning Lists
Attachments: ST Capital Projects List - 2014-2016.xls; B&J 5 Yr Capital Plan.xlsx

Had a "brain freeze" on Friday, and forgot to forward this on to the Board. Here are the lists of the Operator's capital and major O&M projects for the Town's various Water & Sewer Districts. Mary Ann will now incorporate this information into an overall debt schedule (showing existing, retiring and possible future debt), to understand financial impacts on residents of each District

Any questions, pls call.

Ronald J. Gainer, PE, Town Engineer
TOWN OF CARMEL
60 McAlpin Avenue
Mahopac, NY 10541
(845) 628-2087; fax (845) 628-7085
email: rg@ci.carmel.ny.us

☒ Work Session 7/24/13

☐ Agenda

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**Carmel Water Districts
2013 Multi-Year Repair and Replacement Projects
Summary of Preliminary Estimate of Probable Cost**



Priority 1	Priority 2	Priority 3	Budget Year				
			Estimated Cost	Critical	2014	2015	2016
EXISTING FACILITY EQUIPMENT							
Facility:	Carmel Water District #2 Filters						
Item:	Microfiltration System						
Issue:	Existing Filters do Exceed Turbidity MCL on occasion.	\$1,500,000	X	\$1,500,000			
Need:	Replace with Micro Filtration units, these will be more cost efficient due to less water loss and lower chemical cost,						
Facility:	Carmel Water District #2 New Filter Building						
Item:	Micro Filtration System						
Issue:	Need to house new treatment units	\$500,000	X	\$500,000			
Need:	Refurbish existing building. New siding, roof and interior panels						
Facility:	Carmel Water District #2 Shop Rite Water tank						
Item:	Electric Power						
Issue:	No existing power	\$30,000			\$30,000		
Need:	No power at this location to run any controls. Pull power from Hillcrest Booster Station for Shop Rite tank.						
Facility:	Carmel Water District #2 Shop Rite Water Tank						
Item:	Paint						
Issue:	Peeling paint, unprotected surface	\$125,000		\$125,000			
Need:	Corrosion control						
Facility:	Carmel Water District #2 Everett Water Tank						
Item:	Access Road						
Issue:	Need access for maintenance 12 months a year	\$25,000		\$25,000			
Need:	Repair Access road						
Facility:	Carmel Water District #2 Everret Water Tank						
Item:	Paint						
Issue:	Peeling paint, unprotected surface	\$150,000		\$150,000			
Need:	Corrosion control						
Facility:	Carmel Water District #2 Lake Pit						
Item:	Emergency Power						
Issue:	No power during power outages	\$50,000		\$50,000			
Need:	Generator or pull power from Treatment plant						
Facility:	Carmel Water District # 2 High Life Pumps						
Item:	supplies water to system						

Issue:	Worn, reduced capacity, not energy efficient	\$35,000		\$35,000		
Need:	Replace existing 4 pumps with 2 new pumps that are speed controlled by Variable Frequency Drive VFD. Much lower					
Facility:	Carmel Water District #2 Street Valve Replacement					
Item:	Water line isolation valves					
Issue:	Replace or install new valves in needed locations. 10 per year, every year	\$30k		\$50,000	\$5,000	\$5,000
Need:	Isolation of water lines for emergencies.					
Facility:	Carmel Water District #2 Water Distribution System					
Item:	GIS Mapping of system "computer generated"					
Issue:	need for more precise maps as the current maps are not accurate. Needed for emergency responders.	\$30,000			\$30,000	
Need:	Map exact location of all system critical components including valves, mains, service lines, fire hydrants					
Facility:	Carmel Water District #2 All Storage tanks					
Item:	Radio transmitters for level control					
Issue:	no indicator of water storage tank levels currently exist	\$20,000	X	\$20,000		
Need:	Maximize storage capacity and alarms prior to loss of water or tank overflow.					
Facility:	Carmel Water District #2 Chlorine Booster Station					
Item:	Chlorine feed booster station					
Issue:	NYS DOH WQ Compliance (Control DBP levels)	\$15,000		\$15,000		
Need:	Compliance with DOH Regulations. May be unnecessary if new Micro Filtration Plant constructed					
Facility:	Carmel Water District #3 Storage Tank					
Item:	Inspection of interior Components					
Issue:	Unknown interior conditions.	\$5,000			\$5,000	
Need:	video inspection of tank to access the condition. To plan for future maintenance and or repairs					
Facility:	Carmel Water District #3 CWD#3					
Item:	New Well					
Issue:	Source water without high Iron content	\$40,000				\$40,000
Need:	Cleaner water. Back up supply					
Facility:	Carmel Water District #3 Wells #1 & #3					
Item:	Emergency Generator					
Issue:	No Emergency power - DOH requirement	\$25,000		\$25,000		
Need:	Supply water during extended power outages.					
Facility:	Carmel Water District #3 Storage Tank					
Item:	Access Driveway					
Issue:	Not a passable road	\$25,000			\$25,000	
Need:	Improve access road to storage tank					
Facility:	Carmel Water District #3 Street Valve Replacement					
Item:	Water line isolation valves					
Issue:	Replace/install valves in needed locations. 2 per year	\$60K		\$10,000	\$10,000	\$10,000

Need:	Isolation of water lines for emergencies. Conserves water				
Facility:	Carmel Water District #3 Spring Street Pump house				
Item:	Fence				
Issue:	Security. Water Supply Protection required by DOH	\$10,000		\$10,000	
Need:	Security fence around facility to prevent access				
Facility:	Carmel Water District #12				
Item:	Flushing hydrants (4)				
Issue:	Replace old, defective hydrants	\$20,000		\$20,000	
Need:	Provide proper system flushing and cleaning				
Facility:	Carmel Water District #12 Tommy Court				
Item:	Service Laterals (20+)				
Issue:	Defective service line matls used when constructed.	\$100,000	X	\$100,000	
Need:	service line replacement with copper to eliminate the constant repairs currently experienced				
Facility:	Carmel Water District #12 Emily Lane				
Item:	Service Lateral (20+)				
Issue:	Defective materials. High probability of breakage	\$75,000		\$75,000	
Need:	Replace services with copper				
Facility:	Carmel Water District #12 Wells and Pumps				
Item:	3 wells and pumps				
Issue:	Low production. Frack for production increase, higher well yield.	\$40,000		\$40,000	
Need:	Increase production to meet system demand. Required by DOH				
Annual Totals - Water Districts				\$ 2,675,000	\$ 180,000 \$ 55,000
2104 - 2016 Grand Totals				\$2,910,000	

Carmel Sewer Districts
2014 5+ Year Repair and Replacement Projects
Summary of Preliminary Estimate of Probable Cost
Severn Trent Environmental Services, Inc



Priority	Priority 2	Priority 3							
EXISTING FACILITY EQUIPMENT				Budget Year					
Note 1: Motor and Pump Life Expectancy is 15 Years				Estimated Cost	Critical	2014	2015	2016	2017
Note 2: Submerged equipment life expectancy 15 years									
Facility	Carmel Sewer District #2	Headworks Bldg/Primary Clarifiers							
Item:	Covers & Odor Control								
Issue:	Raw sewage smells exposed in close proximity to Businesses and residential			\$300,000				\$300,000	
Need:	Primary Covers and Odor Scrubber unit								
Facility	Carmel Sewer District #2	Headworks Building							
Item:	Doors								
Issue:	Old doors disintegrated from H2S corrosive properties			\$25,000		\$25,000			
Need:	Contain odors. Building security								
Facility	Carmel Sewer District #2	Headworks Building							
Item:	Exhaust Fan								
Issue:	Eliminate potential hazardous atmosphere by ventilation			\$10,000		\$10,000			
Need:	New fan and controls - Corrosion resistant								
Facility	Carmel Sewer District #2	Headworks Building							
Item:	Heaters (2)								
Issue:	Prevent Freezing. No heat			\$12,000		\$12,000			
Need:	Stainless Steel explosion proof heaters								
Facility	Carmel Sewer District #2	Headworks Building							
Item:	Building Gas detector - repair/replace								
Issue:	Potential Hazardous Atmosphere			\$6,500	X	\$6,500			
Need:	Monitor prior to entry. Health risk.								
Facility	Carmel Sewer District #2	Secondary Clarifiers (3)							
Item:	Catwalks or Walkways								
Issue:	Need access to clean and inspect properly			\$90,000			\$30,000	\$30,000	\$30,000
Need:	Install walkway system around circumference of tanks								
Facility	Carmel Sewer District #2	Sand Filter Influent Pumps							
Item:	Influent Pumps								
Issue:	Exceeds expected service life			\$30K		\$5,000	\$5,000	\$5,000	\$5,000
Need:	Replace all pumps, 1 per year								
Facility	Carmel Sewer District #2	Composite Samplers inf/Eff							
Item:	Composite Samplers								
Issue:	Aged. inefficient. Need for regulatory sampling			\$12,000	X	\$12,000			
Need:	Replace with ISCO Composite Samplers Immediate. Quotes submitted.								
Facility	Carmel Sewer District #2	Sewage Pump Station							
Item:	Davit Crane								
Issue:	Remove pumps for inspection, cleaning, replacement			\$10,000			\$10,000		
Need:	One Davit Crane and 22 bases (one for each station)								
Facility	Carmel Sewer District #2	Primary Clarifiers (2)							
Item:	Collects, chains, flights, paddles, gear box and hardware								
Issue:	Aged, worn and inefficient			\$64,000			\$32,000	\$32,000	
Need:	Replace components								

**Carmel Sewer Districts
2014 5+ Year Repair and Replacement Projects
Summary of Preliminary Estimate of Probable Cost
Severn Trent Environmental Services, Inc**



Priority	Priority 2	Priority 3	Carmel Sewer Environmental Services							
EXISTING FACILITY EQUIPMENT			Budget Year							
Note 1: Motor and Pump Life Expectancy is 15 Years			Estimated	Critical	2014	2015	2016	2017	2018	2019
Facility	Carmel Sewer District #2 Anoxic Tanks									
Item:	Mixers (6) \$95,505 total									
Issue	process		\$95,505	X	\$31,835	\$31,835	\$31,835			
Need:	Replace Mixers (ST searching for inexpensive source)									
Facility	Carmel Sewer District #2 Anoxic Tanks									
Item:	Mixer Control Panel									
Issue	Repair, upgrade or replace		\$15,000	X	\$15,000					
Need:	Proper operation of Mixers									
Facility	Carmel Sewer District #2 First Stage Clarifiers (2)									
Item:	Center Drive Units									
Issue	Aged, worn components		\$100,000				\$50,000	\$50,000		
Need:	Major Overhaul or replacement									
Facility	Carmel Sewer District #2 First Stage RAS/WAS									
Item:	Rebuild DC1 Pumps (3) \$5K ea. 40 HP-1700 gpm									
Issue	Old, inefficient, high energy cost to operate		\$15,000	X	\$10,000	\$5,000				
Need:	Rebuild to maximize efficient operation									
Facility	Carmel Sewer District #2 Aeration Blower Motors (3)									
Item:	Blower Motors (VFD interface) 100 Horsepower									
Issue	At end of useful service life, aged, worn		\$105,000	X	\$35,000			\$35,000	\$35,000	
Need:	Major Overhaul or replacement									
Facility	Carmel Sewer District #2 Second Stage Clarifiers (3)									
Item:	Center Drive Units									
Issue	Aged, worn components		\$150,000	X	\$50,000		\$50,000	\$50,000		
Need:	Major Overhaul or replacement. One unit currently out of service. Critical process control unit to meet SPDES limits and maintain plant solids control.									
Facility	Carmel Sewer District #2 Primary & Secondary Clarifiers									
Item:	Catwalks frames and sidewalls									
Issue	Peeling unsightly paint. Potential corrosion issues		\$200,000					\$200,000		
Need:	Clean, prepare and repaint exterior surfaces. Corrosion control and paint required to maintain integrity and life span of structure as well as improve visual impact to public.									
Facility	Carmel Sewer District #2 Secondary Clarifiers									
Item:	RAS/WAS pumps DC-2 (2) 40 HP-1700 gpm									
Issue	Past useful Service life		\$40,000	X	\$20,000	\$20,000				
Need:	Pumps worn, inefficient pumps require pumps to be run at high speed with greater electrical cost. New pump combined with motors and VFD (see Below) provides cost saving and efficient operations.									
Facility	Carmel Sewer District #2 Secondary Clarifiers									
Item:	RAS/WAS Motors & VFD Drive DC-2 (2)									
Issue	Past useful Service life		\$16,000	X	\$8,000	\$8,000				
Need:	Replace. Motors and VFD controls past useful service life, inefficient, do not function properly and currently non repairable. VFD operation provides electrical cost savings when pumps do not have to run full speed and operate on hard starters.									

**Carmel Sewer Districts
2014 5+ Year Repair and Replacement Projects
Summary of Preliminary Estimate of Probable Cost
Severn Trent Environmental Services, Inc**



Priority 2	Priority 3									
EXISTING FACILITY EQUIPMENT			Budget Year							
Note 1: Motor and Pump Life Expectancy is 15 Years			Estimated	Critical	2014	2015	2016	2017	2018	2019
Facility:	Carmel Sewer District #2 Sand Filter Building									
Item:	Roof									
Issue:	Extremely poor condition			X	\$775,000					
Need:	Existing roof has leaked for years. Temporary patches ineffective. Repairs needed to protect building, supplies, equipment and electrical panel. Internal damage to building roofing system unknown but likely extensive.									
Facility:	Carmel Sewer District #2 Sand Filter Building									
Item:	Non Potable water Pumps									
Issue:	Past useful service life. Ineffective. Not usable		\$10,000		\$10,000					
Need:	Replace with new pumps. Need for plant wash water for daily maintenance. Using potable water and impacts drinking water supply.									
Facility:	Carmel Sewer District #2 Traveling Bridge Filter (3)									
Item:	Sand Filters									
Issue:	Loss of efficiency		\$750,000			\$250,000	\$250,000	\$250,000		
Need:	Filter inefficient. Solids pass thru blinds Microfiltration plant resulting in increased filter & CMF backwashes, higher energy consumption and increased chemical cost to clean both..									
Facility:	Carmel Sewer District #2 Traveling Bridge Filter (3)									
Item:	Alternate to refurbish sand filters									
Issue:	Install membrane Bio Reactor		\$1,000,000					\$1,000,000		
Need:	Upgrade. Alternative process unit. Replacement unit for existing sand filters. Less maintenance, operating and maintenance cost. Working on a proposal at present.									
Facility:	Carmel Sewer District #2 Sludge Thickener									
Item:	Membrane Batch Treatment									
Issue:	Concentrate sludge. Increase solids percentage		\$300,000			\$300,000				
Need:	Concentration of Waste solids would result in lesser sludge volume, great hauling efficiency and reduced hauling costs Potential cost savings of \$140K per year. Unit would be installed in existing Gravity Thickener. Would reduce overhaul costs.									
Facility:	Carmel Sewer District #2 Gravity Thickener									
Item:	All components - Repair or replace.									
Issue:	Items. inefficient. near failure or inoperative Overhaul		\$250,000			\$250,000				
Need:	Thickener does not operate as per design due to multiple equipment failure issue. Unsafe to work on top of tank. Potential personal injury hazard is high.									
Facility:	Carmel Sewer District #2 Temporary Gravity Thickener									
Item:	Temporary Gravity Thickener									
Issue:	For use during existing thickener rehabilitation		\$50,000			\$50,000				
Need:	Temporarily replace thickener tank/added capacity during maintenance and overhaul or MBT installation. Needed in both cases.									
Facility:	Carmel Sewer District #2 Ultraviolet Disinfection									
Item:	UV Bulbs									
Issue:	Needs replacement. DEP agrees to pay half the cost		\$40,000	X	\$40,000					
Need:	Disinfection process hardware for plant effluent. Existing bulds past useful service life and require high energy use to achieve proper output levels. Excess cost to operate in current conditions. Disinfection is a SPDES Permit requirement immediate 2013									

Carmel Sewer Districts
2014 5+ Year Repair and Replacement Projects
Summary of Preliminary Estimate of Probable Cost
Severn Trent Environmental Services, Inc



Priority	Priority 2	Priority 3								
EXISTING FACILITY EQUIPMENT			Budget Year							
Note 1: Motor and Pump Life Expectancy is 15 Years			Estimated	Critical	2014	2015	2016	2017	2018	2019
Facility	Carmel Sewer District #2 Micro Filtration									
Item:	CMF Waste Line									
Issue	DEP Recommended alternate route		\$20,000			\$20,000				
Need: Reduce high solids loading, potential damage to unit and inefficient operations of secondary CMF unit by sending waste back to WWTP for processing.										
Facility	Carmel Sewer District #2 Micro Filtration									
Item:	CIP Waste Line									
Issue	Dep Recommended alternate route. Reduce Secondary CMF unit loading		\$5,000		\$5,000					
Need: Reduce high solids loading, potential damage to unit and inefficient operations of secondary CMF unit by sending waste back to WWTP for processing.										
Facility	Carmel Sewer District #2 Micro Filtration									
Item:	CMF Bypass Valve									
Issue	Broken in shut position. Rusted under sidewalk		\$20,000	X	\$20,000					
Need: Only alternative means to route effluent flow out of plant in event of CMF operational failure. If CMF fails in under current nted conditions, a spill and violation										
Facility	Carmel Sewer District #2 Micro Filtration									
Item:	Feed pump VFD Drives									
Issue	Maintain at peak performance		\$5,000			\$5,000				
Need: Inspection and service as necessary to maintain equipment in peak opeation condition and efficiency. Electrical cost saving and predictive maintenance.										
Facility	Carmel Sewer District #2 Main Sewer Pump Stations									
Item:	In line grinders-shredders (5)									
Issue	Aged, inefficient. Unshredded matter cause pump damage		\$75,000	X	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	
Need: Prevent pump blockage, damage, electrical over loads. Unshredded rags cause collection system blockages, level control system damage. all noted issues can result in sewer spills.										
Facility	Carmel Sewer District #2 Kelley Road Pump Station									
Item:	Emergency Generator									
Issue	Repair Replace. Out of service. Use pump truck during power failures		\$20,000	X	\$20,000					
Need: Existing generator out of service. Pump trucks used to dewater during power failures. Need Generator to operate station automatically in power outage and eliminate pumping cost.										
Facility	Carmel Sewer District #2 Hughson South SPS									
Item:	Pumps (2) 75 HP motor, 1,000 gpm pump.									
Issue	Worn, inefficient operation Rebuild pumps		\$30,000	X	\$20,000	\$10,000				
Need: Inefficient pumps result in low pump rate efficiency and high energy cost to overcome low efficiency. Hydraulic overload or pump failure can result in sewer										
Facility	Carmel Sewer District #2 On Lot Pump Station (150)									
Item:	Pumps									
Issue	Replacement of pumps. 3 Stations per year		\$250,000		\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$25,000
Need: Replace aging pumps prior to failure requiring emergency replacement and potential sewer spills. Maintain supply of on hand replacement pumps to respond to emergency failures.										
Facility	Carmel Sewer District #2 On Lot SPS Generator Tie In									
Item:	Emergency Generator transfer Switch and Jack									
Issue	Retrofit on 10-15 year Cycle		\$150,000		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Need: Need ability to run onlots during extended power failure to prevent potential spills and violations. No back power currently exists.										
Facility	Carmel Sewer District #1 White Sail SPS									
Item:	Automatic timer to exercise Emergency Genset									

Carmel Sewer Districts
2014 5+ Year Repair and Replacement Projects
Summary of Preliminary Estimate of Probable Cost
Severn Trent Environmental Services, Inc

SEVERN
TRENT
SERVICES

Priority	Priority 2	Priority 3
EXISTING FACILITY EQUIPMENT		
Note 1: Motor and Pump Life Expectancy is 15 Years		
Issue: Now done manually		
Need: Install timer switch to automatically exercise emergency generator on weekly basis/schedule as per Dec.		
Estimated	Critical	Budget Year
\$2,000		2014 2015 2016 2017 2018 2019

Carmel Sewer Districts
2014 5+ Year Repair and Replacement Projects
Summary of Preliminary Estimate of Probable Cost
Severn Trent Environmental Services, Inc

SEVERN
TRENT
SERVICES

Priority	Priority 2	Priority 3							
EXISTING FACILITY EQUIPMENT				Budget Year					
Note 1: Motor and Pump Life Expectancy is 15 Years				Estimated	Critical	2014	2015	2016	2017
Facility	Carmel Sewer District #4 Rotating Biological Contactors								
Item:	Fiberglass Covers								
Issue:	Replace on 3 year schedule			\$45,000			\$15,000	\$15,000	\$15,000
Need:	Old, aged, worn. Potential for collapse high. Exposure of RBC membrane to extreme weather conditions would cause process reduction or failure.								
Facility	Carmel Sewer District #4 Old Sand Filter Building								
Item:	Aged leaking roof								
Issue:	Building used for material storage			\$20,000			\$20,000		
Need:	Spare parts storage area. High humidity/moisture content in building. Potential for parts damage/corrosion is high.								
Facility	Carmel Sewer District #4 Headworks Building								
Item:	Equalization Basin needed								
Issue:	Engineer/design			\$250,000				\$250,000	
Need:	Current flow is intermittent. Equalization of flow allows for longer, efficient operation of equipment, reduces power cost and maintains constant process control/biological stability.								
Facility	Carmel Sewer District #4 WWTP Control Building								
Item:	Metal Roof								
Issue:	Aged worn leaks Many patched repairs			\$70,000			\$70,000		
Need:	Roof leaks in storage area, electrical rooms and lab. Potential damage to equipment and power supply is high.								
Facility	Carmel Sewer District #4 Primary Clarifier Drive & Flights								
Item:	Flights, chains, wear shoes, links, paddles								
Issue:	25 years old imminent catastrophic failure			\$50,000	X	\$50,000			
Need:	Unit process is inefficient. Not all sludge collected. Causes process control and odor problems. Reduces plant operational efficiency.								
Facility	Carmel Sewer District #4 Secondary Clarifier Drive & Flights								
Item:	Flights, chains, wear shoes, links, paddles								
Issue:	25 years old imminent catastrophic failure			\$50,000	X	\$50,000			
Need:	Unit process is inefficient. Not all sludge collected. Causes process control and odor problems. Reduces plant operational efficiency.								
Facility	Carmel Sewer District #4 Effluent Pump Station								
Item:	All system components, pump, valve, pipe								
Issue:	Well past expected & reasonable service life			\$50,000	X		\$50,000		
Need:	Failure could result in station flooding/equipment damage & spill. Station is the only available means of discharging plant effluent.								
Facility	Carmel Sewer District #4 Access Driveway								
Item:	Asphalt driveway								
Issue:	Poor condition Pavement broken up			\$15,000			\$15,000		
Need:	Road continues to deteriorate due to weather events and movement of heavy vehicles. Need safe/reliable access for all vehicles.								
Facility	Carmel Sewer District #4 Underhill Pump Station								
Item:	Underhill Pump Station - Generator								
Issue:	30+ years old Worn internal parts Replacement needed			\$20,000	X	\$20,000			
Need:	Old weathered, Major components worn out, costly to repair, unreliable. Potential for failure is high. Failure can result in sewer spill								
Facility	Carmel Sewer District #4 Underhill Pump Station								
Item:	Underhill Pump Station Auto Transfer Switch								
Issue:	Past useful service life			\$5,000	X	\$5,000			
Need:	Old. Spare parts unavailable. Failure could result in sewer spill & would require emergency repair/replacement.								

Carmel Sewer Districts
2014 5+ Year Repair and Replacement Projects
Summary of Preliminary Estimate of Probable Cost
Severn Trent Environmental Services, Inc



Priority 2	Priority 3	Priority 1	Priority 4	Priority 5	Priority 6	Priority 7	Priority 8	Priority 9	Priority 10	Priority 11	Priority 12	Priority 13	Priority 14	Priority 15	Priority 16	Priority 17	Priority 18	Priority 19	Priority 20	Priority 21	Priority 22	Priority 23	Priority 24	Priority 25	Priority 26	Priority 27	Priority 28	Priority 29	Priority 30	Priority 31	Priority 32	Priority 33	Priority 34	Priority 35	Priority 36	Priority 37	Priority 38	Priority 39	Priority 40	Priority 41	Priority 42	Priority 43	Priority 44	Priority 45	Priority 46	Priority 47	Priority 48	Priority 49	Priority 50	Priority 51	Priority 52	Priority 53	Priority 54	Priority 55	Priority 56	Priority 57	Priority 58	Priority 59	Priority 60	Priority 61	Priority 62	Priority 63	Priority 64	Priority 65	Priority 66	Priority 67	Priority 68	Priority 69	Priority 70	Priority 71	Priority 72	Priority 73	Priority 74	Priority 75	Priority 76	Priority 77	Priority 78	Priority 79	Priority 80	Priority 81	Priority 82	Priority 83	Priority 84	Priority 85	Priority 86	Priority 87	Priority 88	Priority 89	Priority 90	Priority 91	Priority 92	Priority 93	Priority 94	Priority 95	Priority 96	Priority 97	Priority 98	Priority 99	Priority 100	Priority 101	Priority 102	Priority 103	Priority 104	Priority 105	Priority 106	Priority 107	Priority 108	Priority 109	Priority 110	Priority 111	Priority 112	Priority 113	Priority 114	Priority 115	Priority 116	Priority 117	Priority 118	Priority 119	Priority 120	Priority 121	Priority 122	Priority 123	Priority 124	Priority 125	Priority 126	Priority 127	Priority 128	Priority 129	Priority 130	Priority 131	Priority 132	Priority 133	Priority 134	Priority 135	Priority 136	Priority 137	Priority 138	Priority 139	Priority 140	Priority 141	Priority 142	Priority 143	Priority 144	Priority 145	Priority 146	Priority 147	Priority 148	Priority 149	Priority 150	Priority 151	Priority 152	Priority 153	Priority 154	Priority 155	Priority 156	Priority 157	Priority 158	Priority 159	Priority 160	Priority 161	Priority 162	Priority 163	Priority 164	Priority 165	Priority 166	Priority 167	Priority 168	Priority 169	Priority 170	Priority 171	Priority 172	Priority 173	Priority 174	Priority 175	Priority 176	Priority 177	Priority 178	Priority 179	Priority 180	Priority 181	Priority 182	Priority 183	Priority 184	Priority 185	Priority 186	Priority 187	Priority 188	Priority 189	Priority 190	Priority 191	Priority 192	Priority 193	Priority 194	Priority 195	Priority 196	Priority 197	Priority 198	Priority 199	Priority 200	Priority 201	Priority 202	Priority 203	Priority 204	Priority 205	Priority 206	Priority 207	Priority 208	Priority 209	Priority 210	Priority 211	Priority 212	Priority 213	Priority 214	Priority 215	Priority 216	Priority 217	Priority 218	Priority 219	Priority 220	Priority 221	Priority 222	Priority 223	Priority 224	Priority 225	Priority 226	Priority 227	Priority 228	Priority 229	Priority 230	Priority 231	Priority 232	Priority 233	Priority 234	Priority 235	Priority 236	Priority 237	Priority 238	Priority 239	Priority 240	Priority 241	Priority 242	Priority 243	Priority 244	Priority 245	Priority 246	Priority 247	Priority 248	Priority 249	Priority 250	Priority 251	Priority 252	Priority 253	Priority 254	Priority 255	Priority 256	Priority 257	Priority 258	Priority 259	Priority 260	Priority 261	Priority 262	Priority 263	Priority 264	Priority 265	Priority 266	Priority 267	Priority 268	Priority 269	Priority 270	Priority 271	Priority 272	Priority 273	Priority 274	Priority 275	Priority 276	Priority 277	Priority 278	Priority 279	Priority 280	Priority 281	Priority 282	Priority 283	Priority 284	Priority 285	Priority 286	Priority 287	Priority 288	Priority 289	Priority 290	Priority 291	Priority 292	Priority 293	Priority 294	Priority 295	Priority 296	Priority 297	Priority 298	Priority 299	Priority 300	Priority 301	Priority 302	Priority 303	Priority 304	Priority 305	Priority 306	Priority 307	Priority 308	Priority 309	Priority 310	Priority 311	Priority 312	Priority 313	Priority 314	Priority 315	Priority 316	Priority 317	Priority 318	Priority 319	Priority 320	Priority 321	Priority 322	Priority 323	Priority 324	Priority 325	Priority 326	Priority 327	Priority 328	Priority 329	Priority 330	Priority 331	Priority 332	Priority 333	Priority 334	Priority 335	Priority 336	Priority 337	Priority 338	Priority 339	Priority 340	Priority 341	Priority 342	Priority 343	Priority 344	Priority 345	Priority 346	Priority 347	Priority 348	Priority 349	Priority 350	Priority 351	Priority 352	Priority 353	Priority 354	Priority 355	Priority 356	Priority 357	Priority 358	Priority 359	Priority 360	Priority 361	Priority 362	Priority 363	Priority 364	Priority 365	Priority 366	Priority 367	Priority 368	Priority 369	Priority 370	Priority 371	Priority 372	Priority 373	Priority 374	Priority 375	Priority 376	Priority 377	Priority 378	Priority 379	Priority 380	Priority 381	Priority 382	Priority 383	Priority 384	Priority 385	Priority 386	Priority 387	Priority 388	Priority 389	Priority 390	Priority 391	Priority 392	Priority 393	Priority 394	Priority 395	Priority 396	Priority 397	Priority 398	Priority 399	Priority 400	Priority 401	Priority 402	Priority 403	Priority 404	Priority 405	Priority 406	Priority 407	Priority 408	Priority 409	Priority 410	Priority 411	Priority 412	Priority 413	Priority 414	Priority 415	Priority 416	Priority 417	Priority 418	Priority 419	Priority 420	Priority 421	Priority 422	Priority 423	Priority 424	Priority 425	Priority 426	Priority 427	Priority 428	Priority 429	Priority 430	Priority 431	Priority 432	Priority 433	Priority 434	Priority 435	Priority 436	Priority 437	Priority 438	Priority 439	Priority 440	Priority 441	Priority 442	Priority 443	Priority 444	Priority 445	Priority 446	Priority 447	Priority 448	Priority 449	Priority 450	Priority 451	Priority 452	Priority 453	Priority 454	Priority 455	Priority 456	Priority 457	Priority 458	Priority 459	Priority 460	Priority 461	Priority 462	Priority 463	Priority 464	Priority 465	Priority 466	Priority 467	Priority 468	Priority 469	Priority 470	Priority 471	Priority 472	Priority 473	Priority 474	Priority 475	Priority 476	Priority 477	Priority 478	Priority 479	Priority 480	Priority 481	Priority 482	Priority 483	Priority 484	Priority 485	Priority 486	Priority 487	Priority 488	Priority 489	Priority 490	Priority 491	Priority 492	Priority 493	Priority 494	Priority 495	Priority 496	Priority 497	Priority 498	Priority 499	Priority 500	Priority 501	Priority 502	Priority 503	Priority 504	Priority 505	Priority 506	Priority 507	Priority 508	Priority 509	Priority 510	Priority 511	Priority 512	Priority 513	Priority 514	Priority 515	Priority 516	Priority 517	Priority 518	Priority 519	Priority 520	Priority 521	Priority 522	Priority 523	Priority 524	Priority 525	Priority 526	Priority 527	Priority 528	Priority 529	Priority 530	Priority 531	Priority 532	Priority 533	Priority 534	Priority 535	Priority 536	Priority 537	Priority 538	Priority 539	Priority 540	Priority 541	Priority 542	Priority 543	Priority 544	Priority 545	Priority 546	Priority 547	Priority 548	Priority 549	Priority 550	Priority 551	Priority 552	Priority 553	Priority 554	Priority 555	Priority 556	Priority 557	Priority 558	Priority 559	Priority 560	Priority 561	Priority 562	Priority 563	Priority 564	Priority 565	Priority 566	Priority 567	Priority 568	Priority 569	Priority 570	Priority 571	Priority 572	Priority 573	Priority 574	Priority 575	Priority 576	Priority 577	Priority 578	Priority 579	Priority 580	Priority 581	Priority 582	Priority 583	Priority 584	Priority 585	Priority 586	Priority 587	Priority 588	Priority 589	Priority 590	Priority 591	Priority 592	Priority 593	Priority 594	Priority 595	Priority 596	Priority 597	Priority 598	Priority 599	Priority 600	Priority 601	Priority 602	Priority 603	Priority 604	Priority 605	Priority 606	Priority 607	Priority 608	Priority 609	Priority 610	Priority 611	Priority 612	Priority 613	Priority 614	Priority 615	Priority 616	Priority 617	Priority 618	Priority 619	Priority 620	Priority 621	Priority 622	Priority 623	Priority 624	Priority 625	Priority 626	Priority 627	Priority 628	Priority 629	Priority 630	Priority 631	Priority 632	Priority 633	Priority 634	Priority 635	Priority 636	Priority 637	Priority 638	Priority 639	Priority 640	Priority 641	Priority 642	Priority 643	Priority 644	Priority 645	Priority 646	Priority 647	Priority 648	Priority 649	Priority 650	Priority 651	Priority 652	Priority 653	Priority 654	Priority 655	Priority 656	Priority 657	Priority 658	Priority 659	Priority 660	Priority 661	Priority 662	Priority 663	Priority 664	Priority 665	Priority 666	Priority 667	Priority 668	Priority 669	Priority 670	Priority 671	Priority 672	Priority 673	Priority 674	Priority 675	Priority 676	Priority 677	Priority 678	Priority 679	Priority 680	Priority 681	Priority 682	Priority 683	Priority 684	Priority 685	Priority 686	Priority 687	Priority 688	Priority 689	Priority 690	Priority 691	Priority 692	Priority 693	Priority 694	Priority 695	Priority 696	Priority 697	Priority 698	Priority 699	Priority 700	Priority 701	Priority 702	Priority 703	Priority 704	Priority 705	Priority 706	Priority 707	Priority 708	Priority 709	Priority 710	Priority 711	Priority 712	Priority 713	Priority 714	Priority 715	Priority 716	Priority 717	Priority 718	Priority 719	Priority 720	Priority 721	Priority 722	Priority 723	Priority 724	Priority 725	Priority 726	Priority 727	Priority 728	Priority 729	Priority 730	Priority 731	Priority 732	Priority 733	Priority 734	Priority 735	Priority 736	Priority 737	Priority 738	Priority 739	Priority 740	Priority 741	Priority 742	Priority 743	Priority 744	Priority 745	Priority 746	Priority 747	Priority 748	Priority 749	Priority 750	Priority 751	Priority 752	Priority 753	Priority 754	Priority 755	Priority 756	Priority 757	Priority 758	Priority 759	Priority 760	Priority 761	Priority 762	Priority 763	Priority 764	Priority 765	Priority 766	Priority 767	Priority 768	Priority 769	Priority 770	Priority 771	Priority 772	Priority 773	Priority 774	Priority 775	Priority 776	Priority 777	Priority 778	Priority 779	Priority 780	Priority 781	Priority 782	Priority 783	Priority 784	Priority 785	Priority 786	Priority 787	Priority 788	Priority 789	Priority 790	Priority 791	Priority 792	Priority 793	Priority 794	Priority 795	Priority 796	Priority 797	Priority 798	Priority 799	Priority 800	Priority 801	Priority 802	Priority 803	Priority 804	Priority 805	Priority 806	Priority 807	Priority 808	Priority 809	Priority 810	Priority 811	Priority 812	Priority 813	Priority 814	Priority 815	Priority 816	Priority 817	Priority 818	Priority 819	Priority 820	Priority 821	Priority 822	Priority 823	Priority 824	Priority 825	Priority 826	Priority 827	Priority 828	Priority 829	Priority 830	Priority 831	Priority 832	Priority 833	Priority 834	Priority 835	Priority 836	Priority 837	Priority 838	Priority 839	Priority 840	Priority 841	Priority 842	Priority 843	Priority 844	Priority 845	Priority 846	Priority 847	Priority 848	Priority 849	Priority 850	Priority 851	Priority 852	Priority 853	Priority 854	Priority 855	Priority 856	Priority 857	Priority 858	Priority 859	Priority 860	Priority 861	Priority 862	Priority 863	Priority 864	Priority 865	Priority 866	Priority 867	Priority 868	Priority 869	Priority 870	Priority 871	Priority 872	Priority 873	Priority 874	Priority 875	Priority 876	Priority 877	Priority 878	Priority 879	Priority 880	Priority 881	Priority 882	Priority 883	Priority 884	Priority 885	Priority 886	Priority 887	Priority 888	Priority 889	Priority 890	Priority 891	Priority 892	Priority 893	Priority 894	Priority 895	Priority 896	Priority 897	Priority 898	Priority 899	Priority 900	Priority 901	Priority 902	Priority 903	Priority 904	Priority 905	Priority 906	Priority 907	Priority 908	Priority 909	Priority 910	Priority 911	Priority 912	Priority 913	Priority 914	Priority 915	Priority 916	Priority 917	Priority 918	Priority 919	Priority 920	Priority 921	Priority 922	Priority 923	Priority 924	Priority 925	Priority 926	Priority 927	Priority 928	Priority 929	Priority 930	Priority 931	Priority 932	Priority 933	Priority 934	Priority 935	Priority 936	Priority 937	Priority 938	Priority 939	Priority 940	Priority 941	Priority 942	Priority 943	Priority 944	Priority 945	Priority 946	Priority 947	Priority 948	Priority 949	Priority 950	Priority 951	Priority 952	Priority 953	Priority 954	Priority 955	Priority 956	Priority 957	Priority 958	Priority 959	Priority 960	Priority 961	Priority 962	Priority 963	Priority 964	Priority 965	Priority 966	Priority 967	Priority 968	Priority 969	Priority 970	Priority 971	Priority 972	Priority 973	Priority 974	Priority 975	Priority 976	Priority 977	Priority 978	Priority 979	Priority 980	Priority 981	Priority 982	Priority 983	Priority 984	Priority 985	Priority 986	Priority 987	Priority 988	Priority 989	Priority 990	Priority 991	Priority 992	Priority 993	Priority 994	Priority 995	Priority 996	Priority 997	Priority 998	Priority 999	Priority 1000
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Note 1: Motor and Pump Life Expectancy is 15 Years			Estimated Cost	Critical	2014	2015	2016	2017	2018	2019																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Note 2: Submerged equipment life expectancy 15 years																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Issue	Raw sewage smells exposed in close proximity to Businesses and residential		\$300,000				\$300,000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Issue	Old doors disintegrated from H2S corrosive properties		\$25,000		\$25,000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Issue	Eliminate potential hazardous atmosphere by ventilation		\$10,000		\$10,000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Need:	New fan and controls - Corrosion resistant																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Item:	Heaters (2)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Issue	Prevent Freezing No heat		\$12,000		\$12,000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Need:	Stainless Steel explosion proof heaters																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Facility	Carmel Sewer District #2 Headworks Building																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Item:	Building Gas detector - repair/replace																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Issue	Potential Hazardous Atmosphere		\$6,500	X	\$6,500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Need:	Monitor prior to entry. Health risk.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Facility	Carmel Sewer District #2 Secondary Clarifiers (3)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Item:	Catwalks or Walkways																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Issue	Need access to clean and inspect properly		\$90,000			\$30,000	\$30,000	\$30,000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Need:	Install walkway system around circumference of tanks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Facility	Carmel Sewer District #2 Sand Filter Influent Pumps																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Item:	Influent Pumps																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Issue	Exceeds expected service life		\$30K		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Need:	Replace all pumps, 1 per year																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Issue	Aged inefficient Need for regulatory sampling		\$12,000	X	\$12,000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Carmel Sewer Districts
2014 5+ Year Repair and Replacement Projects
Summary of Preliminary Estimate of Probable Cost
Severn Trent Environmental Services, Inc



Priority	Priority 2	Priority 3	BUDGET YEAR							
EXISTING FACILITY EQUIPMENT			Budget Year							
Note 1: Motor and Pump Life Expectancy is 15 Years			Estimated	Critical	2014	2015	2016	2017	2018	2019
Facility	Carmel Sewer District #2 Anoxic Tanks									
Item:	Mixers (6) \$95,505 total									
Issue	process		\$95,505	X	\$21,833	\$21,833	\$21,833			
Need:	Replace Mixers (ST searching for inexpensive source)									
Facility	Carmel Sewer District #2 Anoxic Tanks									
Item:	Mixer Control Panel									
Issue	Repair, upgrade or replace		\$15,000	X	\$15,000					
Need:	Proper operation of Mixers									
Facility	Carmel Sewer District #2 First Stage Clarifiers (2)									
Item:	Center Drive Units									
Issue	Aged, worn components		\$100,000				\$50,000	\$50,000		
Need:	Major Overhaul or replacement									
Facility	Carmel Sewer District #2 First Stage RAS/WAS									
Item:	Rebuild DC1 Pumps (3) \$5K ea. 40 HP-1700 gpm									
Issue	Old, inefficient, high energy cost to operate		\$15,000	X	\$15,000	\$5,000				
Need:	Rebuild to maximize efficient operation									
Facility	Carmel Sewer District #2 Aeration Blower Motors (3)									
Item:	Blower Motors (VFD interface) 100 Horsepower									
Issue	At end of useful service life, aged, worn		\$105,000	X	\$35,000			\$35,000	\$35,000	
Need:	Major Overhaul or replacement									
Facility	Carmel Sewer District #2 Second Stage Clarifiers (3)									
Item:	Center Drive Units									
Issue	Aged, worn components		\$150,000	X	\$50,000		\$50,000	\$50,000		
Need:	Major Overhaul or replacement. One unit currently out of service. Critical process control unit to meet SPDES limits and maintain plant solids control.									
Facility	Carmel Sewer District #2 Primary & Secondary Clarifiers									
Item:	Catwalks frames and sidewalls									
Issue	Peeling unsightly paint. Potential corrosion issues		\$200,000					\$200,000		
Need:	Clean, prepare and repaint exterior surfaces. Corrosion control and paint required to maintain integrity and life span of structure as well as improve visual impact to public.									
Facility	Carmel Sewer District #2 Secondary Clarifiers									
Item:	RAS/WAS pumps DC-2 (2) 40 HP-1700 gpm									
Issue	Past useful Service life		\$40,000	X	\$20,000	\$20,000				
Need:	Pumps worn, inefficient pumps require pumps to be run at high speed with greater electrical cost. New pump combined with motors and VFD (see Below) provides cost saving and efficient operations.									
Facility	Carmel Sewer District #2 Secondary Clarifiers									
Item:	RAS/WAS Motors & VFD Drive DC-2 (2)									
Issue	Past useful Service life		\$16,000	X	\$8,000	\$8,000				
Need:	Replace. Motors and VFD controls past useful service life, inefficient, do not function properly and currently non repairable. VFD operation provides electrical cost savings when pumps do not have to run full speed and operate on hard starters.									

Carmel Sewer Districts
2014 5+ Year Repair and Re

Severn Trent Environmental Services, Inc

Priority Priority 2 Priority 3

EXISTING FACILITY EQUIPMENT

Note 1: Motor and Pump Life Expectancy is 15 Years

Estimated	Critical	2014	2015	Budget Year		2018	2019
				2016	2017		

District	Item	Cost	Critical	2013	2014
All Districts	Water Meter Upgrade Project	\$3,000,000			
Carmel Water District # 2					
	New Microfiltration Treatment System	1.5 Million	X		
	New Building for new Treatment System	750 K	X		
	Install elect. service to Shop-Rite tank	30K			
	Access road to Everett tank	25K	X		
	Paint and repair Everett tank	150K	X		
	Paint and repair Shop-Rite tank	120K			
	New generator for lake pit	35K	X		
	Refurbish High-lift pumps at WTP (4 pumps; replace 2/year)	20K			
	Street Valve replacement (annual program)	say \$35k (7±/yr)			
	GIS Mapping of water Distribution System	30K			
	Radio level controls for all tanks	\$20k			
	Chlorine booster station (to address DBP standards)	15K			
Carmel Water District # 3					
	Inspect Storage Tank	5K			
	Additional well	30K			
	Generator at Wells 1&3	25K			
	Improve access driveway to storage tank (re-grade/pave)	25K			
	Street Valve replacement (annual program)	say \$15k (3±/yr)			
	Fence WTP bldg (Spring/Lakeshore)	10K			
District	Item	Cost	Critical	2013	2014
Carmel Water District #12					
	Flushing hydrant replacements (4)	20K			
	Water Service line replacements (20±) - Tommy Court	100K	X		
	Water Service line replacements (15±) - Emily Lane	75k			
	Recondition existing wells (3)	25K			
District	Item	Cost	Critical	2013	2014
Carmel Sewer District # 1					
	Replace Route 6N sewer main	250K			
	Replace GenSet at White Sail PS	30K			
Carmel Sewer District # 2					
	FRP covers for primary tanks (2)	300K			
	Odor Collection System/Air Scrubber				
	MBT (sludge thickeners)	750K			
	Refurbish Traveling bridge filters	750K			

	Install catwalks - secondary clarifiers	65K	X		
	Filter influent pump replacement	30K	X		
	Composite samplers for inf & eff	10K	X		
	Crane/davit with bases for use at pump stations	10K	X		
	Primary tanks (2) sludge collection - chain, gears, bushings, flights	50K			
	Anoxic mixers (6) - 1st stage aeration tanks	100K			
	First Stage Clarifier drives (2)	100K			
	100hp blowers replace (3)	150K			
	Second stage clarifier drives (3)	150K			
	Clarifier & catwalks - sandblasted & painted	180K			
	Sand Filter building roof	125K	X		
	On-lot and pump station pump replacements	say \$25K/yr (5-10±/yr)			
	Generator hook-ups for on-lot systems	say \$25K/yr (5-10±/yr)			
		Cost	Critical	2013	2014
District	Item	Cost			
Carmel Sewer District # 4					
	Replace primary drive unit	15K	X		
	Replace secondary drive unit	15K			
	Replace RBC bearings (2/unit; 3 units total)	15K each (45k total)			
	Electrical rehab of Eff. pump station	8K	X		
	Replace Underhill PS Genset	30K	X		
	Replace Lakeshore Dr Genset	30K			
Carmel Sewer District # 5					
	Additional 10,000 gal primary clarifier	20K	X		
	Blacktop road to facility	20K			
Carmel Sewer District # 6					
	Re-lay/replace influent line (along driveway to headworks)	15K			
	New clarifier drives & screw conveyors	20K	X		
	Wayacross PS - new Genset & transfer switch	30K	X		
	Muffin monster (comminutor) with auger	25K			
	Additional 30,000 gal primary clarifier	50K			
	Install primary clarifier & EQ	25K	X		
	Replace driveway from Vineland Rd to plant	15K			
Carmel Sewer District # 7					
Carmel Sewer District # 7 (DEP upgrade pending)	Muffin monster (comminutor) with auger	25K			
	I&I inspection/repairs	100K			

WATER SYSTEM UPGRADES – CAPITAL BUDGET 5 YEAR PLAN – July 2013										
Water District	Project Description	Estimated Cost	Justification	Priority	O&M?	BUDGET YEAR				
						2014	2015	2016	2017	2018
ALL DISTRICTS	Water Meter Upgrade Program									
CWD#1 Bus. Dist	250,000 gallon storage tank (Crest Dr. adjacent radio tower)	\$300,000	None exists for WD 10, 13 & 1; needed for current/future system growth				X			
CWD#6 Tomahawk Cr	Telemetry controls and signals	\$10,000	Accurate automation on pump controls needed		X	X				
	Pump House repairs (structural) masonry walls and roof	\$10,000				X				
CWD#6 Shell Valley	Well #2 - Replace Well Offset Line (650 LF 2")	\$16,000 - \$18,000	Well #1 high yield only back up	X	X					
	Well #2 - Replace Offset Wire (650 Ft.)	\$10,000-\$12,000	Well #1 high yield	X	X					
	Pump House repairs - roof and gables (masonry walls)	\$15,000	Age of pump house need upgrade	X		X				
	Replace NYSEG service pole & main electric service		Service Pole Rotted and Potential Failure			X				
CWD#5 Maple Terrace	10 HP booster pump	\$5,000	Booster #2 only Back up			X				
	Replacement of 5000 gallon pneumatic storage tank	\$35,000	46 year old tank				X			
CWD#9 Mahopac Hills	Vista Dr - 1500' WM replacement	\$150,000	Continuous repairs age corrosion	X		X				
	Kirkwood Dr - 600' WM replacement	\$80,000	Continuous repairs age corrosion	X		X				
	Rockledge Terr - 400' WM Replacement	\$40,000	Continuous repairs age corrosion	X		X				
CWD#7 Ivy Hills	Upgrade pump house suction/discharge piping	\$10,000-\$15,000	Age of old piping	X	X					
	5,000 gal pneumatic tank	\$40,000	45 year old tank age corrosion					X		

WATER SYSTEM UPGRADES – CAPITAL BUDGET 5 YEAR PLAN – July 2013										
Water District	Project Description	Estimated Cost	Justification	Priority	O&M?	BUDGET YEAR				
						2014	1015	2016	2017	2018
CWD #8 Mahopac Ridge										
<i>Crest Tank Booster Station</i>	Chlorination flowmeter/pump system	\$10,000	Maintain CLs residual			X				
<i>Rte. 6 Raw H2O Pump House</i>	Control panel upgrade	\$15,000-\$20,000	Heart of system need expansion capabilities	X		X				
	Raw water 10HP Upgrade	\$15,000	Heavy wear on Existing Pump	X	X					
	Install 3 rd raw water booster pump 15 HP	\$15,000-\$18,000	3rd pump for reliability & system expansion		X	X				
<i>Filter Plant – Heather Drive; (1995 ± WTP; various components approaching end of useful life</i>	Motorized butterfly valves. (1 replacement 1 standby)	\$20,000	Plant valves installed 1995 need upgrade heavy wear			X				
	Replace mixed media - (2) two DAF filters	\$20,000	Media beyond life expectancy			X				
	Sandblast/re-paint (2) DAF filter housings	\$40,000	Filter coating failing			X				
	Control panel upgrade (spare replacement modules)	\$10,000	Need redundancy	X		X				
CWD #10 Lakeview Park										
	Crest Drive to Senior Avenue 600'	\$80,000	Old piping need upgrade		X	X				
	Replace 6 services fed off Hill Blvd	\$40,000	Old galvanized piping poor flow, leaks		X					
CWD #13 Rolling Greens										
	Upgrade booster station valves, pipe & meters	\$30,000	Vault under sized, over worked with CWD#13 expansion		X					
	Control panel upgrade	\$10,000	Vault under sized, over worked with CWD#13 expansion			X				
CWD #14 Red Mills										
	Replace four (4) fire hydrants	\$10,000	Age factor fire flow protection			X				
	Sand blast and paint Agro Farm storage tanks. Estimated 80K	\$120,000	Need extension protection				X			

#5

Pasquerello, Anne

From: Maxwell, Mary Ann
Sent: Thursday, July 18, 2013 6:05 PM
To: Gainer, Ron; Schmitt, Kenneth; Lombardi, Frank; suzi mcdonough; Suzi McDonough; John Lupinacci; Jonathan Schneider
Cc: Greg Folchetti; Pasquerello, Anne; Joe Sagnis; Joe Scollan (joe@beeandjay.com); ted@beeandjay.com
Subject: RE: (T) Carmel - Water & Sewer Districts Capital Planning Lists
Attachments: Special District Debt Forecast Years 2013-2019.xls

Attached is the Annual Debt Service Forecast for the Special Districts based on the Multi Year Capital Plan submitted to me from the Town Engineer and the Town Operators. This forecast is broken down by district in three (3) separate tabs:

- ST Water (Water Districts operated by Severn Trent)
- ST Sewer (Sewer Districts operated by Severn Trent)
- Bee & Jay Water (Water Districts operated by B & J)

For each district I show the existing debt and when it matures, as well as the retiring debt and new debt proposed. If I felt there was sufficient funding in the district's budget and/or fund balance I included the project as an O & M cost (not to be borrowed). I also included the Year End Fund Balance as of 12/31/12 for each district.

Please include this as backup for the WS 7/24/13. Also include the operators Capital Planning Lists emailed to you from Ron Monday 7/15/13. If you have any questions prior to the work session feel free to give me a call.

Thanks,

☒ Work Session 7/24/13

Mary Ann

☐ Agenda

From: Gainer, Ron
Sent: Monday, July 15, 2013 11:32 AM
To: Schmitt, Kenneth; Lombardi, Frank; suzi mcdonough; Suzi McDonough; John Lupinacci; Jonathan Schneider
Cc: Maxwell, Mary Ann; Greg Folchetti; Pasquerello, Anne; Joe Sagnis; Joe Scollan (joe@beeandjay.com); ted@beeandjay.com
Subject: (T) Carmel - Water & Sewer Districts Capital Planning Lists

Had a "brain freeze" on Friday, and forgot to forward this on to the Board. Here are the lists of the Operator's capital and major O&M projects for the Town's various Water & Sewer Districts. Mary Ann will now incorporate this information into an overall debt schedule (showing existing, retiring and possible future debt), to understand financial impacts on residents of each District

Any questions, pls call.

Ronald J. Gainer, PE, Town Engineer
TOWN OF CARMEL
60 McAlpin Avenue
Mahopac, NY 10541
(845) 628-2087; fax (845) 628-7085
email: rg@ci.carmel.ny.us

SPECIAL DISTRICT CAPITAL DEBT FORECAST 2013-2019 (Severn Trent - Water)

DEBT ITEM DESCRIPTION	ANNUAL DEBT SERVICE						
	2013	2014	2015	2016	2017	2018	2019
CARMEL WATER DISTRICT #2							
Annual Existing Debt - Carmel Water District #2 (Maturity 2027)	83,380	81,592	79,209	72,304	51,791	50,766	49,211
ANNUAL EXISTING RETIRING DEBT		(1,788)	(2,383)	(6,905)	(20,513)	(1,025)	(1,555)
Microfiltration System (Filters) - \$1,500,000		26,070	92,041	96,765	96,331	95,735	94,979
Microfiltration System (New Building) - \$500,000		8,677	32,317	32,221	32,076	31,878	31,626
Shop Rite Water Tank (electric power) - \$30,000			579	1,693	1,694	1,681	1,683
Shop Rite Water Tank (paint) - \$125,000		1,935	8,163	8,144	8,115	8,075	8,025
Everett Water Tank (Access Road) - \$25,000		435	1,619	1,618	1,609	1,608	1,582
Everett Water Tank (Paint) - \$150,000		2,550	10,090	10,059	10,011	9,949	9,860
Lake Pit (Emergency power) - \$50,000		867	3,232	3,222	3,208	3,188	3,163
High Life Pumps - \$35,000		599	1,713	1,719	1,709	1,711	1,749
Water Distribution System - \$30,000		579	1,693	1,694	1,681	1,683	1,709
Total Future Bond "Proposed" - Microfiltration - \$2,300,000 (\$2,000,000*approx 15%)	0	5,215	18,654	19,348	19,261	19,142	18,991
Total Future Bond "Proposed" - Other - \$515,000 (\$445,000*approx 15%)		1,045	4,063	4,222	4,204	4,184	4,165
FUTURE NEW DEBT "Proposed"	0	47,972	174,164	180,705	179,899	178,834	177,532
TOTAL NEW ANNUAL DEBT SERVICE	83,380	129,564	253,373	253,009	231,690	229,600	226,743
TOTAL ANNUAL DEBT (NET OF RETIRING DEBT)		127,776	250,990	246,104	211,177	228,575	225,188

SPECIAL DISTRICT CAPITAL DEBT FORECAST 2013-2019 (Severn Trent - Water)

DEBT ITEM DESCRIPTION	ANNUAL DEBT SERVICE						
	2013	2014	2015	2016	2017	2018	2019
Year End Fund Balance as of 12/31/12:							
Restricted - \$186,622							
Assigned - (\$382,379)							
** O & M Projects to include in Annual Budget **							
All Storage Tanks (Radio level cuts) - \$20,000	20,000						
Street Valve Replacement - \$15,000		5,000	5,000	5,000			
Chlorine Booster Station - \$15,000		15,000					
Total amount to include in annual budget	0	20,000	5,000	5,000	0	0	0

SPECIAL DISTRICT CAPITAL DEBT FORECAST 2013-2019 (Severn Trent - Water)

DEBT ITEM DESCRIPTION	ANNUAL DEBT SERVICE						
	2013	2014	2015	2016	2017	2018	2019
CARMEL WATER DISTRICT #3							
Annual Existing Debt - Carmel Water District #3 (Maturity 2022)	25,759	24,845	24,090	23,325	23,063	12,671	12,242
ANNUAL EXISTING RETIRING DEBT		(914)	(755)	(765)	(262)	(10,392)	(429)
New Well - \$40,000				767	2,932	2,922	2,908
Emergency Generator - \$25,000		435	1,619	1,618	1,609	1,608	1,582
Storage Tank (Access Road) - \$25,000			435	1,619	1,618	1,609	1,608
Total Future Bond "Proposed" - \$115,000 (90,000 * approx 15%)		246	926	924	919	916	904
FUTURE NEW DEBT "Proposed"	0	681	2,980	4,928	7,078	7,055	7,002
TOTAL NEW ANNUAL DEBT SERVICE	25,759	25,526	27,070	28,253	30,141	19,726	19,244
TOTAL ANNUAL DEBT (NET OF RETIRING DEBT)		24,612	26,315	27,488	29,879	9,334	18,815
Year End Fund Balance as of 12/31/12:							
Restricted - \$108,355							
Assigned - \$24,106							
** O & M Projects to include in Annual Budget **							
Storage Tank (Inspection of interior components) - \$5,000			5,000				
Street Valve Replacement - \$30,000		10,000	10,000	10,000			
Spring Street Pump House (Fence) - \$10,000		10,000					
Total amount to include in annual budget	0	20,000	15,000	10,000	0	0	0

SPECIAL DISTRICT CAPITAL DEBT FORECAST 2013-2019 (Severn Trent - Water)

DEBT ITEM DESCRIPTION	ANNUAL DEBT SERVICE						
	2013	2014	2015	2016	2017	2018	2019
CARMEL WATER DISTRICT #12							
Annual Existing Debt - Carmel Water District #12	0	0	0	0	0	0	0
ANNUAL EXISTING RETIRING DEBT		0	0	0	0	0	0
Flushing Hydrants (4) - \$20,000		385	1,603	1,604	1,583	1,584	1,571
Tommy Court (Service Laterals) - \$100,000		1,735	6,463	6,444	6,415	6,375	6,325
Emily Lane (Service Laterals) - \$75,000			1,237	4,783	4,769	4,742	4,691
Wells and Pumps (3) - \$40,000		767	2,932	2,922	2,908	2,888	2,863
Total Future Bond "Proposed" - <u>\$275,000</u> (235,000 * approx 15%)		619	2,367	2,361	2,347	2,331	2,314
FUTURE NEW DEBT "Proposed"	0	3,506	14,602	18,114	18,022	17,920	17,764
TOTAL NEW ANNUAL DEBT SERVICE	0	3,506	14,602	18,114	18,022	17,920	17,764
TOTAL ANNUAL DEBT (NET OF RETIRING DEBT)		3,506	14,602	18,114	18,022	17,920	17,764
Year End Fund Balance as of 12/31/12:							
Restricted - \$8,834							
Assigned - \$1,974							
** O & M Projects to include in Annual Budget **							
Total amount to include in annual budget	0	0	0	0	0	0	0

#6

Pasquerello, Anne

From: Gainer, Ron
Sent: Wednesday, July 10, 2013 4:20 PM
To: Schmitt, Kenneth; Lombardi, Frank; suzi mcdonough; Suzi McDonough; John Lupinacci; Jonathan Schneider
Cc: Maxwell, Mary Ann; Greg Folchetti; Pasquerello, Anne
Subject: CWD #8 - Water Main Replacement Project
Attachments: 07-09-13 TB memo - JRFA extra.rtg.pdf ☐ Agenda

7/24/13

As the Board is aware, while the work may have taken longer than originally expected, this construction project is now complete. However, due to the project's extended construction period, JRFA, who the Town retained to oversee the Contractor's construction activities on the Town's behalf, has requested a \$5,000.00 increase (4.5±% increase over their prior authorization of \$110,000) to cover services not covered by the original proposal accepted by the Town Board. This is explained in detail in the attached memorandum.

To refresh the Board's memory, the Town Board had granted Bibeau Construction Co., Inc. a time extension for completion of their contractual obligations due to various delays encountered during the course of their work which were beyond their control, as well as additional work activities performed at the Town's direction that were beyond the scope of the original construction contract. As a result, the Town's construction inspector for the work, , was required to provide residence inspection services for a longer period than expected. These additional inspection services were necessary to protect the Town's interests in assuring that the work was performed in accordance with the approved design plans, and so I consider JRFA's request to be both reasonable and appropriate, and recommend that this be approved by the Town Board.

It is to be noted that, even considering these additional inspection charges, overall project costs (design, construction, inspection, etc. costs) are well under the project financing authorized by the Town for the work.

It is requested that this matter be placed on an upcoming Town Board agenda, for review and authorization.

Ronald J. Gainer, PE, Town Engineer
TOWN OF CARMEL
60 McAlpin Avenue
Mahopac, NY 10541
(845) 628-2087; fax (845) 628-7085
email: rg@ci.carmel.ny.us

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Ronald J. Gainer, P.E.
Town Engineer



(845) 628-1500
(845) 628-2087
Fax (845) 628-7085

Office of the Town Engineer

60 McAlpin Avenue
Mahopac, New York 10541

☒ Work Session 7/24/13

☐ Agenda _____

MEMORANDUM

TO: Carmel Town Board **DATE:** July 9, 2013
FROM: Ronald J. Gainer, PE, Town Engineer **RE:** Water District No. 8 -
Water Main Replacement Project
cc: Greg Folchetti, Esq.
Mary Ann Maxwell, Comptroller

As the Board is aware, while the work may have taken longer than originally expected, this construction project is now complete. Due to the extended construction period the Town's Engineering Consultant, who was retained to oversee the Contractor's construction activities on the Town's behalf, has requested a \$5,000.00 increase (4.5±% increase over their prior authorization of \$110,000) to cover services not covered by their proposal.

Specifically, the Town Board had granted Bibeau Construction Co., Inc. a time extension for completion of their contractual obligations due to various delays encountered during the course of their work which were beyond their control, as well as additional work activities performed at the Town's direction that were beyond the scope of the original construction contract. As a result, the Town's construction inspector for the work, J. Robert Folchetti & Associates, LLC, was required to provide residence inspection services for a longer period than expected.

These additional inspection services were necessary to protect the Town's interests in assuring that the work was performed in accordance with the approved design plans, and so I consider JRFA's request to be both reasonable and appropriate. I therefore recommend that this be approved by the Town Board.

I trust that this is adequate for your needs. If you have any questions, please advise.

ATTACHMENT:

1. JRFA letter requesting additional resident inspection monies

Tel: (845) 628-1500 Fax: (845) 628-7085 email rg@ci.carmel.ny.us

G:\Engineering\Contracts and RFPs\C222-2012 WD #8 Water Main Replacement\Construction Phase\Correspondence\2013\07-09-13 TB
memo - JRFA extra fig doc

J. ROBERT FOLCHETTI & ASSOCIATES, LLC
CIVIL/ENVIRONMENTAL ENGINEERS

MEMO TO: Ronald J. Gainer, P. E.
FROM: John E. Folchetti, P.E. 
DATE: May 1, 2013
SUBJECT: CARMEL WATER DISTRICT #8
CONSTRUCTION ENGINEERING BUDGET

1. Pursuant to the Town's RFP for Construction Engineering Services and our contract dated October 2, 2012, the contract price for Basic Construction Services and Full Time Construction Inspection is \$110,000 for the 180 day construction period identified in the RFP.
2. Basic Engineering Services started on October 18, 2012 and Full Time Construction Inspection commenced on October 22, 2012. The 180 day construction period commenced with Notice to Proceed, also on October 18, 2012. Per the Preconstruction Meeting Minutes, the contract period was to conclude April 14, 2013.
3. On April 12, 2013 Bibeau Construction Company, Inc. submitted a request for extension of the contract time from April 14, 2013 to a substantial completion date of May 17, 2013. JRFA provided a letter confirming the basis for the Contractor's request.
4. As of the end of April 2013, 16 days beyond the estimated 180 day construction period, JRFA had provided all contractual items identified in our scope of services for a total cost of \$106,745.00. As the contract time was extended 30 days requiring 16% additional full time inspection, we expect that our total engineering cost will change from \$110,000 to \$115,000.00, representing only a 4.5 percent increase in cost.

We trust that you will find this satisfactory. Should you have any questions, or require any further information, please let us know.

JEF/jac
Cc: File

- 31 SODOM ROAD
Brewster, New York 10809
845-363-1560
Fax 845-279-2062

- 815 WINTERTON ROAD
MIDDLETOWN, NY 10940
845-224-9147
Fax 845-279-2062

www.jrfa.com

#17

Pasquerello, Anne

From: Gainer, Ron
Sent: Monday, July 15, 2013 3:49 PM
To: Schmitt, Kenneth; Lombardi, Frank; suzi mcdonough; Suzi McDonough; John Lupinacci; Jonathan Schneider
Cc: Maxwell, Mary Ann; Greg Folchetti; Pasquerello, Anne
Subject: R2013-0002 Town Park Districts - Dam Evaluations
Attachments: 07-15-13 TB bid rec memo & Bid Summary table.rtg.pdf

Enclosed pls find a bid award recommendation memorandum relative to the above matter. This involves the performance of Hydraulic Studies and to also the development of Emergency Action Plans (EAP's) for the impoundments lying within the Lake Mahopac, Lake Casse, and Teakettle Lakes Park Districts. As the Board is aware, these studies are required by NYSDEC regulations, and so this RFP was issued to create EAP's for each, and to identify any deficiencies as to their spillway capacities, so as to permit all of the noted dams to eventually be brought into compliance with these guidelines.

As the memo explains, we recommend that Insite Engineering be awarded the work. Pls place this matter on the next available agenda for discussion.

Any questions, pls advise.

Ronald J. Gainer, PE, Town Engineer
TOWN OF CARMEL
60 McAlpin Avenue
Mahopac, NY 10541
(845) 628-2087; fax (845) 628-7085
email: rg@ci.carmel.ny.us

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Ronald J. Garner, P.E.
Town Engineer



Tel: (845) 628-1500
(845) 628-2087
Fax: (845) 628-7085

Office of the Town Engineer
60 McAlpin Avenue
Mahopac, New York 10541

MEMORANDUM

TO: Carmel Town Board
FROM: Ronald J. Garner, PE,
Town Engineer
cc:
DATE: July 15, 2013
RE: R2013-002
Town Park Districts - Dam Evaluations

As requested, the Engineering Department solicited proposals from various Engineering firms to perform Hydraulic Studies and to also develop Emergency Action Plans (EAP's) for the impoundments lying within the Lake Mahopac, Lake Casse, Teakettle Lakes Park Districts. As the Board is aware, these studies are required by NYSDEC regulations, and so this RFP was issued so as to permit all of the noted dams to be brought into compliance with these guidelines.

Eight proposals were received, and the results are summarized on the attached spreadsheet. As can be seen, there was a wide spread in the bids submitted. On July 12, 2013, Rob Vara and I personally interviewed representatives of the firms which provided the three lowest priced proposals, namely Schnabel (Clifton Park, NY), Insite Engineering (Carmel, NY), and Tectonic Engineering (Mountainville, NY).

Based upon the pricing, qualifications, and information gleaned from the interviews conducted, this Department recommends that the project be awarded to Insite Engineering at the total price of \$34,380.00. Insite's total price is developed on the basis of their offer of a 10% discount if all four locations were awarded to them.

It should be noted that this work involves evaluations on behalf of three separate Park Districts. For purposes of billing to districts, it is appropriate to apply the 10% discount to each of the amounts Insite proposed for each specific district. Therefore, the appropriate amounts to be assessed to the individual districts are listed below:

Lake Mahopac	\$14,490.00
Lake Casse	\$ 1,350.00
Teakettle Spout Lakes	\$18,540.00 (or \$ 9,270.00 for each, Upper & Lower)
TOTAL	\$34,380.00

We trust that this is adequate for your needs. Should you have any questions or comments, please contact us.

RFP BID RESULTS

Lake Mahopac Engineering Study			Lake Casse Engineering Study			Upper Teakettle Spout Lake Engineering Study			Lower Teakettle Spout Lake Engineering Study			GRAND TOTAL - ALL PROJECTS		
RFP #: R2013-002														
Contractor / Vendor	Grand Total	Remarks	Contractor / Vendor	Grand Total	Remarks	Contractor / Vendor	Grand Total	Remarks	Contractor / Vendor	Grand Total	Remarks	Contractor / Vendor	Grand Total	Remarks
Maser Consulting 1807 Route 300, Suite 101 Newburgh, NY 12550	\$19,575		Maser Consulting	\$16,600		Maser Consulting	\$19,575		Maser Consulting	\$19,575		Maser Consulting	\$75,325	
Schnabel 28 Corporate Drive, STE 104 Clifton Park, NY 12065	\$13,000	\$8,900 if awarded all dams	Schnabel	\$12,000	\$7,900 if awarded all dams	Schnabel	\$14,000	\$8,900 if awarded all dams	Schnabel	\$14,000	\$8,900 if awarded all dams	Schnabel	\$55,000	\$34,700 if awarded all dams
Weston and Sampson 301 Manchester Rd, STE 210A Poughkeepsie, NY 12603	\$22,400		Weston & Sampson	\$8,400		Weston & Sampson	\$15,500		Weston & Sampson	\$15,500		Weston & Sampson	\$58,400	
C.T. Male Associates 50 Century Hill Drive Latham, NY 12110	\$36,185		C.T. Male Assoc.	\$21,935		C.T. Male Assoc.	\$27,050		C.T. Male Assoc.	\$23,190		C.T. Male Assoc.	\$108,360	
Tectonic Engineering P.O. Box 37 Mountainville, NY 10953	\$21,460		Tectonic Engg	\$4,360		Tectonic Engg	\$14,100		Tectonic Engg	\$14,100		Tectonic Engg	\$54,020	3rd Low w/ other bidders deducts
Insite Engineering	\$16,100		Insite Engg	\$1,500		Insite Engg	\$10,300		Insite Engg	\$10,300		Insite Engg	\$38,200	\$34,300 if awarded all dams
McGimpsey & Associates	\$47,360	Engg ONLY	McGimpsey & Assoc.	\$8,260	Engg ONLY	McGimpsey & Assoc.	\$38,660	Engg ONLY	McGimpsey & Assoc.	\$41,100	Engg ONLY	McGimpsey & Assoc.	\$135,380	Engg ONLY
Putnam Engineering	\$52,500		Putnam Engineering	\$6,000		Putnam Engineering	\$37,500		Putnam Engineering	\$44,500		Putnam Engineering	\$140,500	

"LOW BID"

2nd Low Bid

3rd Low Bid

#8

Cimadomo, Bella

From: Gainer,Ron
Sent: Thursday, July 18, 2013 3:30 PM
To: Schmitt, Kenneth; Lombardi, Frank; suzi mcdonough; Suzi McDonough; John Lupinacci; Jonathan Schneider
Cc: Maxwell, Mary Ann; Greg Folchetti; Pasquerello, Anne; Cimadomo, Bella
Subject: CWD #12 - Tommy Court Service Line Replacement Project
Attachments: 07-17-13 TB bid rec memo with attachment.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

In the past few years we have experienced multiple leaks on the last four service lines in the Tommy Court cul-de-sac. In an attempt to eliminate this ongoing problem, this office recently obtained proposals from various contractors to replace these services. Ed Kuck Excavating tendered the lowest bid, at \$33,870.00.

This is outlined in more detail in the enclosed memorandum and sketch. Pls place this matter on an upcoming agenda to discuss, and hopefully award this work.

Ronald J. Gainer, PE, Town Engineer
TOWN OF CARMEL
60 McAlpin Avenue
Mahopac, NY 10541
(845) 628-2087; fax (845) 628-7085
email: rg@ci.carmel.ny.us

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Office of the Town Engineer
60 McAlpin Avenue
Mahopac, New York 10541

MEMORANDUM

TO: Carmel Town Board
FROM: Ronald J. Gainer, PE, Town Engineer RE: R2013-002
Carmel Water District No. 12
Tommy Court Service Replacements
cc: Mary Ann Maxwell, Comptroller
Greg Folchetti, Esq.

DATE: July 17, 2013

In just the past two years that I've served as Town Engineer, we have routinely experienced service line leaks in this Water District. Services in this District are typically a "blue jet" plastic service line material that was originally installed by the developer, and I understand have been problematic ever since the Town took over administration of the Water District. These have historically caused the "repairs" portion of the District's Annual Operating Budget to be excessive in having to respond and repair such leaks.

Over the past year, we have experienced multiple leaks on the last four service lines which are right within the Tommy Court cul-de-sac, due to this inferior service line material. To make matters worse, the developer installed these service lines in a common trench, which wraps around the cul-de-sac (outside of the pavement). These services are actually located on private property. The locations are shown on the attached sketch.

In an attempt to eliminate this ongoing problem, this office recently obtained sealed, written proposals from various contractors to replace these services. Further, in the performance of this work we also wish to have the replacement services installed within the Tommy Court R.O.W. The services will be replaced with copper tubing, which is the Town's standard service line material that is utilized now in all other districts.

The pricing obtained is presented below:

Ed Kuck Excavating	\$33,870.00
VRI Environmental Service	\$41,667.00
Ben Cozzi, Inc.	\$48,400.00
Legacy Valve	\$65,000.00

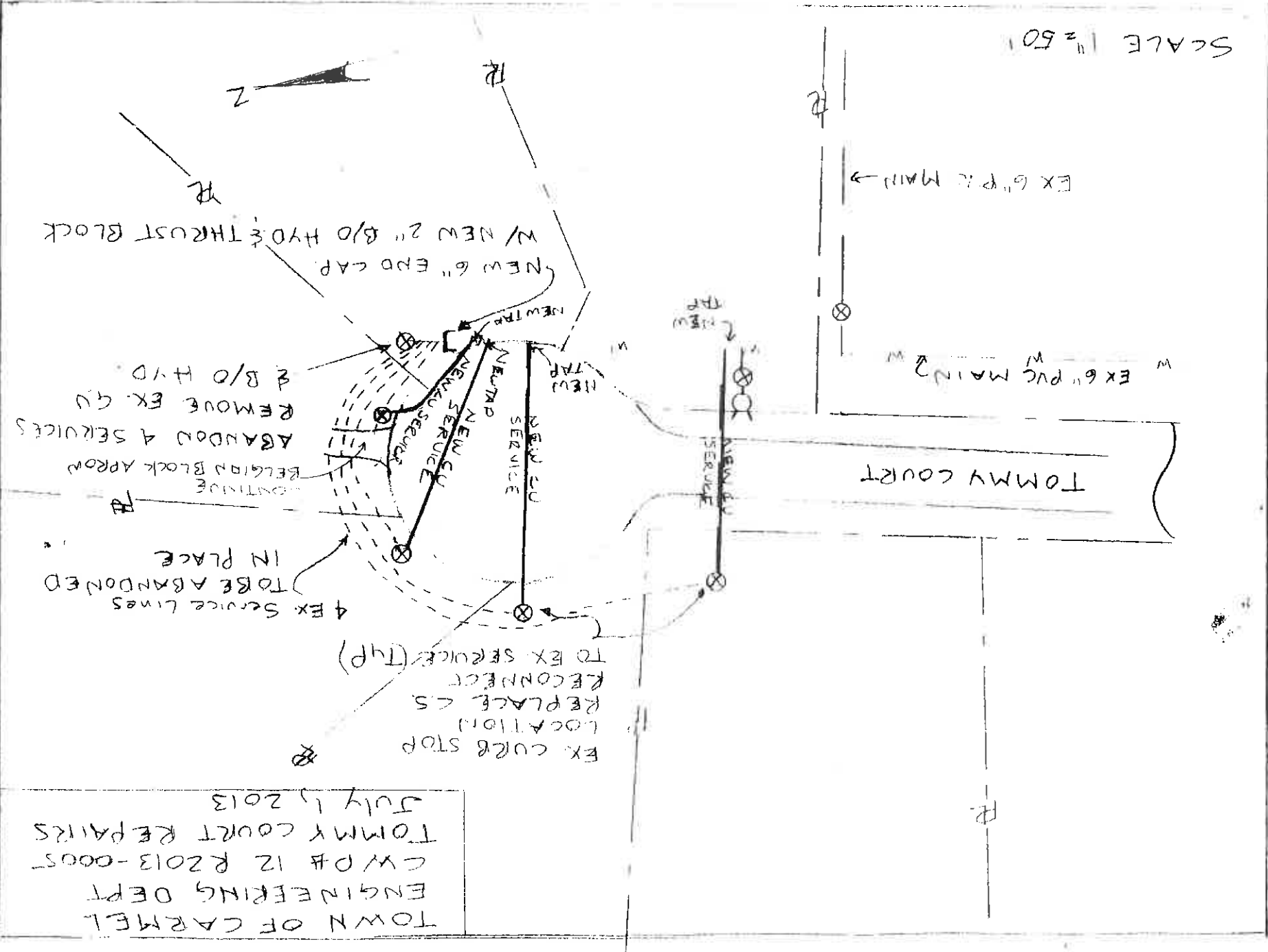
Although the lowest proposal is above the Town of Carmel Procurement Policy threshold of \$20,000.00, it is below the New York state "Public Bid" threshold of \$35,000.00. It is our understanding after discussions with Town Counsel that the Board can award up to the \$35,000.00 limit in compliance with State Law, without the more formal Bid Documents which are always utilized on more major projects.

RE: R2013-002 Carmel Water District No. 12 - Tommy Court Service Replacements

On the basis of this guidance, and the bid results summarized above, it is the recommendation of this Department the project be awarded to Ed Kuck Excavating for \$33,870.00, subject to confirmation from the Comptroller's Office that funding for this work can be found in this year's Budget.

We trust that this is adequate for your needs. Should you have any questions or comments, please contact us.

TOWN OF CARMEL
ENGINEERING DEPT
CWO# 12 R2013-0005
TOMMY COURT REPAIRS
JULY 1, 2013



SCALE 1" = 50'

