

TOWN COUNCIL
Town of Trumbull
CONNECTICUT
www.trumbull-ct.gov

TOWN HALL
Trumbull

TELEPHONE
(203) 452-5000



FINANCE COMMITTEE
AGENDA
JANUARY 29, 2020

Lisa Valenti, Chairman
22 Wood Avenue
Trumbull, CT 06611

Dawn Cantafio, Vice Chairman
72 Tait Road
Trumbull, CT 06611

Kevin Shively
66 Beardsley Parkway
Trumbull, CT 06611

Michael Miller
19 Lynnbrook Drive
Trumbull, CT 06611

Lori Rosasco Schwartz
29 High Ridge Road
Trumbull, CT 06611

Tony Scinto
32 Lindberg Drive
Trumbull, CT 06611

Mary Isaac, Alternate
50 Skating Pond Road
Trumbull, CT 06611

Donna Seidell, Alternate
182 Old Dike Road
Trumbull, CT 06611

NOTICE is hereby given that the Finance Committee of the Trumbull Town Council will hold a meeting Wednesday, January 29, 2020 at 7:30 p.m. at the Trumbull Town Hall, for the following purpose:

1. RESOLUTION TC28-29: To consider and act upon a resolution which would appropriate \$31,000 from the General Fund to account 01022600-581888 EMS-Capital Outlay.
2. RESOLUTION TC28-30: To consider and act upon a resolution which would appropriate \$8,300 from the General Fund to account 01022600-581888 EMS-Capital Outlay.
3. RESOLUTION TC28-31: To consider and act upon a resolution which would appropriate \$93,280 from the General Fund to account 01022600-522202 EMS-Professional Services.

4. RESOLUTION TC28-32: To consider and act upon a resolution whereby the Town Council initiates an audit of the accounts of the Board of Education pursuant to Chapter II, Section 10(A) of the Charter of the Town of Trumbull.
5. RESOLUTION TC28-33: To consider and act upon a resolution which would approve the 5-Year Capital Plan.

RESOLUTIONS

1. RESOLUTION TC28-29: BE IT RESOLVED, That \$31,000 is hereby appropriated from the General Fund to account 01022600-581888 EMS-Capital Outlay.
2. RESOLUTION TC28-30: BE IT RESOLVED, That \$8,300 is hereby appropriated from the General Fund to account 01022600-581888 EMS-Capital Outlay.
3. RESOLUTION TC28-31: BE IT RESOLVED, That \$93,280 is hereby appropriated from the General Fund to account 01022600-522202 EMS-Professional Services.
4. RESOLUTION TC28-32: BE IT RESOLVED, That the Town Council hereby initiates an audit of the accounts of the Board of Education pursuant to Chapter II, Section 10(A) of the Charter of the Town of Trumbull.
5. RESOLUTION TC28-33: BE IT RESOLVED, That the 5-Year Capital Plan is hereby approved.

TOWN OF TRUMBULL
BOARD OF FINANCE

REQUEST FOR ACTION

DATE: 9-Jan-20
AGENDA: 01-20-01
AMOUNT: \$31,000

2020-2021

(A) APPROPRIATION [X]

FROM: ACCOUNT NO.
ACCOUNT NAME General Fund - Fund Balance \$31,000

(B) TRANSFER []

(C) BOND []

TO: ACCOUNT NO. 01022600-581888
ACCOUNT NAME EMS-Capital Outlay \$31,000

(D) SUMMARY OF REQUEST:

To install security cameras in and outside of the building and ambulance bays.

(E) REQUESTED BY:

Leigh Goodman, EMS Chief

(F) SUPPORTING DATA:

See attached

(G) CONCURRENCE:

[] YES [] NO NEED ADD'L INFORMATION ↓



Vicki A. Tesoro, First Selectman

(H) BOARD OF FINANCE ACTION:

1. APPROVED ___
2. RECOMMENDED TO TOWN COUNCIL ___
3. TABLED ___
4. DENIED ___
5. OTHER ___

* There may be 8 cameras that can be repurposed from a different site that will reduce the total amount requested by Leigh Goodman. This is being investigated and will be discussed at the Board of Finance meeting.

| TRANSFER NUMBER | ACCOUNT DESCRIPTION | ACCOUNT # | BALANCE BEFORE TRANSFER | AMOUNT OF TRANSFER | BALANCE AFTER TRANSFER |
|----------------------------|---|------------------|--|-------------------------------|---------------------------------------|
| 01-20-01 | FROM GENERAL FUND - FUND BALANCE | | | <u>(31,000.00)</u> | |
| | TO EMS CAPITAL OUTLAY | 01022600-581888 | 11,350.00 | 31,000.00 | 42,350.00 |
| | TO INSTALL SECURITY CAMERAS IN AND OUTSIDE THE BUILDING AND AMBULANCE BAYS | | | | |

| DATE | FROM | TO ACCOUNT NAME | TO ACCOUNT NUMBER | ITEM | AMOUNT |
|----------------------|--------------|--------------------|-------------------|----------|--------------------|
| 01/09/2020 | General Fund | EMS-Capital Outlay | #01022600- 581888 | SECURITY | \$31,000.00 |
| ACCOUNT TOTAL | | | | | \$31,000.00 |

ITEM REQUEST SUMMARY FOR SECURITY UPGRADE

TRUMBULL EMS FUNDING FOR SECURITY UPGRADE

Trumbull EMS is requesting supplemental funding to cover costs for installation of security cameras to the interior and exterior of EMS building and secure access into site, and key controlled areas.

| ITEM DESCRIPTION | ITEM DETAIL | COST |
|--------------------|-----------------------------|--------------------|
| ACCESS CONTROL | Detail available on request | \$11,500.00 |
| VIDEO SURVEILLANCE | Detail available on request | \$19,500.00 |
| TOTAL | | \$31,000.00 |

Trumbull EMS is conducting an ongoing detailed needs analysis and long term action plan for continued resource maintenance, growth & expansion, ensuring continued fiscally responsible, reliable and clinically excellent prehospital care to our community.

As part of this assessment, we found a critical need for upgraded building security to ensure our staff, fleet, supplies and property are kept safe. We are immediately addressing the most pressing requirements to adequately mitigate risk to our staff and operation.



Payable to: Omni Data, LLC
 PO Box 26653
 West Haven, CT 06516
 203-387-6664
 203-387-8745 FAX

QUOTE

Quote # Q2YQ10178
 Date 11/26/19
 Sales Rep. Adamw

Quote To:

Trumbull Town Hall
 William Chin
 5866 Main Street

Trumbull CT 06611

Ship To:

Trumbull Town Hall
 William Chin
 5866 Main Street

Trumbull CT 06611

Here is the quote you requested.

| Qty | Description | Unit Price | Ext. Price |
|-----|---|------------|-------------|
| | Trumbull EMS | | |
| | Access Control | | |
| 5 | HID Reader | \$183.74 | \$918.70 |
| 4 | HES Electric Strikes | \$189.99 | \$759.96 |
| 1 | HES Electric Strikes | \$349.99 | \$349.99 |
| 1 | S2 Network Node | \$1,312.50 | \$1,312.50 |
| 3 | S2 ACM Blade | \$555.00 | \$1,665.00 |
| 1 | Altronix Power Supply | \$306.24 | \$306.24 |
| 5 | Dual Pole Door Contact | \$24.99 | \$124.95 |
| 5 | Request to Exit Sensor | \$77.49 | \$387.45 |
| 5 | Access Control Cable Runs | \$200.00 | \$1,000.00 |
| 1 | Installation / Configuration | \$4,560.00 | \$4,560.00 |
| | SubTotal | | \$11,384.79 |
| | Video Surveillance | | |
| 1 | AXIS P3717-PLE 8 Megapixel Network Camera - Color, Monochrome - 49.21 ft Night Vision - H.264, MPEG-4, MJPEG - 1920 x 1080 - 3 mm - 6 mm - 2x Optical - CMOS - Cable - Dome - Bracket Mount | \$1,214.10 | \$1,214.10 |
| 1 | Axis T91A64 Corner Bracket | \$71.10 | \$71.10 |
| 1 | AXIS T91D61 Wall Mount for Surveillance Camera | \$75.60 | \$75.60 |
| 1 | AXIS T94N01D Pendant Mount | \$80.10 | \$80.10 |
| 1 | AXIS P3225-LVE MK II 2 Megapixel Network Camera - 1920 x 1080 - 3.5x Optical - Bracket Mount | \$629.06 | \$629.06 |
| 7 | AXIS P3225-LV Mk II 2 Megapixel Network Camera - Color - 1920 x 1080 - 3 mm - 10.50 mm - 3.5x Optical - Cable - Dome | \$522.78 | \$3,659.46 |
| 2 | AXIS P1447-LE 5 Megapixel Network Camera - Cable | \$674.06 | \$1,348.12 |
| 11 | Milestone Pro License | \$130.38 | \$1,434.18 |
| 11 | Cat6 Cable Runs | \$275.00 | \$3,025.00 |
| 1 | AXIS T8524 Ethernet Switch - 24 Ports - Manageable - 2 Layer Supported - Modular - Twisted Pair, Optical Fiber | \$809.05 | \$809.05 |

Prices are subject to change without notice. Terms are NET 30 and subject to 1.5% monthly fee for unpaid balance. Signing this quote is agreeing to Omni Data, LLC's terms and conditions which can be found at <http://www.omnianswers.net/terms-and-conditions.pdf>

| Qty | Description | Unit Price | Ext. Price |
|-----|-----------------------------------|--------------|--------------------|
| 1 | OPTIONAL - Local Recording Server | \$3,500.00 | \$3,500.00 |
| 1 | Misc | \$315.00 | \$315.00 |
| 1 | Installation / Configuration | \$3,040.00 | \$3,040.00 |
| | SubTotal | | \$19,200.77 |
| | | SubTotal | \$30,585.56 |
| | | Sales Tax | \$0.00 |
| | | Shipping | \$0.00 |
| | | Total | \$30,585.56 |

Signature: _____ Date: _____

Printed Name: _____ Title: _____

Note:

Labor quotes (applicable only if labor is included on this quotation) are estimates based on reasonable expectations and assumed physical environment. Variations in either may require an amendment to actual total but we will never charge more without prior consent from customer.

Prices are subject to change without notice. Terms are NET 30 and subject to 1.5% monthly fee for unpaid balance. Signing this quote is agreeing to Omni Data, LLC's terms and conditions which can be found at <http://www.omnianswers.net/terms-and-conditions.pdf>

TOWN OF TRUMBULL
BOARD OF FINANCE

REQUEST FOR ACTION

DATE: 9-Jan-20
AGENDA: 01-20-02
AMOUNT: \$8,300

2020-2021

(A) APPROPRIATION [X]

FROM: ACCOUNT NO.
ACCOUNT NAME General Fund - Fund Balance \$8,300

(B) TRANSFER []

(C) BOND []

TO: ACCOUNT NO. 01022600-581888
ACCOUNT NAME EMS-Capital Outlay \$8,300

(D) SUMMARY OF REQUEST:

Stretcher for new ambulance (1/5 of \$41,500). Not part of initial ambulance purchase.

(E) REQUESTED BY:

Leigh Goodman, EMS Chief

(F) SUPPORTING DATA:

See attached

(G) CONCURRENCE:

YES NO NEED ADD'L INFORMATION



Vicki A. Tesoro, First Selectman

(H) BOARD OF FINANCE ACTION:

1. APPROVED___
2. RECOMMENDED TO TOWN COUNCIL___
3. TABLED___
4. DENIED___
5. OTHER___

| TRANSFER NUMBER | ACCOUNT DESCRIPTION | ACCOUNT # | BALANCE BEFORE TRANSFER | AMOUNT OF TRANSFER | BALANCE AFTER TRANSFER |
|----------------------------|-------------------------------------|------------------|--|-------------------------------|---------------------------------------|
| 01-20-02 | FROM GENERAL FUND - FUND BALANCE | | | (8,300.00) | |
| | TO EMS CAPITAL OUTLAY | 01022600-581888 | 43,350.00 | 8,300.00 | 51,650.00 |

STRETCHER FOR NEW AMBULANCE THAT WAS NOT PART
OF THE INITIAL AMBULANCE PURCHASE (1/5 OF \$41,500)

ITEM REQUEST SUMMARY FOR POWER LOAD SYSTEM

TRUMBULL AMBULANCE 904 POWERLOAD SYSTEM/STRETCHER REPLACEMENT

Trumbull EMS is requesting supplemental funding to purchase a new powered loading system for the new ambulance. The costs of this CT State required equipment were inadvertently left out of our Capital Budget when the new ambulance was considered, as this item was planned for during our transitional leadership year.

NEW STRETCHER

As this should have been included in the original ambulance purchase, it becomes part of the ISF and only one fifth of the expense will be charged to this account.

| ITEM DESCRIPTION | PRODUCT NAME | COST | COST PER YR |
|-----------------------------------|--------------|-------------|-------------------|
| STRETCHER | Power-PRO XT | \$19,000.00 | \$3,800.00 |
| LOADING SYSYTEM | PowerLOAD | \$22,500.00 | \$4,500.00 |
| TOTAL | | \$41,500.0 | \$8,300.00 |
| TOTAL REQUEST FOR TRANSFER | | | \$8,300.00 |

As we upgrade our vehicles, we are installing CT State required PowerLOAD Systems into all new vehicles. PowerLOAD systems are part of our proactive risk reduction strategy to ensure we are making every reasonable effort to protect our EMS providers from injury, and that we are ensuring our patients have the best set up for smooth and safe transition from the incident into and out of our emergency response vehicles. It is important to note that maintaining uniformity in ambulance equipment is a proactive risk mitigating step, allowing all providers to know how to use all pieces of equipment efficiently, safely and effectively no matter what vehicle they respond in. All ambulances need to carry the same stretcher and loading system as they must be interchangeable on scenes and in general.

| DATE | FROM | TO ACCOUNT NAME | TO ACCOUNT NUMBER | ITEM | AMOUNT |
|----------------------|--------------|--------------------|-------------------|-------------------|------------------|
| 01/09/20 | General Fund | EMS-Capital Outlay | #01022600- 581888 | POWER LOAD SYSTEM | \$8300.00 |
| ACCOUNT TOTAL | | | | | \$8300.00 |



Trumbull EMS Power Pro

Quote Number: 10057871
Version: 1
Prepared For: TRUMBULL EMS
Attn:

Remit to: P.O. Box 93308
Chicago, IL 60673-3308
Rep: Michael Hooper
Email: michael.hooper2@stryker.com
Phone Number:

Quote Date: 10/01/2019
Expiration Date: 12/30/2019

| Delivery Address | | End User - Shipping - Billing | | Bill To Account | |
|------------------|---|-------------------------------|---|-----------------|---|
| Name: | TRUMBULL EMS | Name: | TRUMBULL EMS | Name: | TRUMBULL EMS |
| Account #: | 1196423 | Account #: | 1196423 | Account #: | 1196423 |
| Address: | 250 MIDDLEBROOKS AVE TRUMBULL Connecticut 06611 | Address: | 250 MIDDLEBROOKS AVE TRUMBULL Connecticut 06611 | Address: | 250 MIDDLEBROOKS AVE TRUMBULL Connecticut 06611 |

Equipment Products:

| # | Product | Description | Qty | Sell Price | Total |
|------|--------------|--------------------------------|-----|-------------|-------------|
| 1.0 | 6506000000 | Power-PRO XT | 1 | \$18,984.64 | \$18,984.64 |
| 1.1 | 6085033000 | PR Cot Retaining Post | | | |
| 1.2 | 7777881669 | 3 Yr X-Frame Powertrain Wrnty | | | |
| 1.3 | 7777881670 | 2 Yr Bumper to Bumper Warranty | | | |
| 1.4 | 6506026000 | Power Pro Standard Components | | | |
| 1.5 | 6500001430 | X-RESTRAINT PACKAGE | | | |
| 1.6 | 0054030000 | DOM SHIP (NOT HI, AK, PR, GM) | | | |
| 1.7 | 650606160000 | ONE PER ORDER, MANUAL, ENG OPT | | | |
| 1.8 | 6085031000 | Trendelenburg | | | |
| 1.9 | 6506038000 | Steer Lock Option | | | |
| 1.10 | 6092036018 | J Hook | | | |
| 1.11 | 6506127000 | Power-LOAD Compatible Option | | | |
| 1.12 | 6500028000 | 120V AC SMRT Charging Kit | | | |
| 1.13 | 6500003130 | KNEE GATCH BOLSTER MATRSS, XPS | | | |
| 1.14 | 6506040000 | XPS Option | | | |
| 1.15 | 6085046000 | Retractable Head Section O2 | | | |
| 1.16 | 0054200994 | NO RUNNER | | | |
| 1.17 | 6500315000 | 3 Stage IV Pole PR Option | | | |
| 1.18 | 6506012003 | STANDARD FOWLER | | | |
| 1.19 | 6500128000 | Head End Storage Flat | | | |



Trumbull EMS Power Pro

Quote Number: 10057871
Version: 1
Prepared For: TRUMBULL EMS
Attn:

Remit to: P.O. Box 93308
Chicago, IL 60673-3308
Rep: Michael Hooper
Email: michael.hooper2@stryker.com
Phone Number:

Quote Date: 10/01/2019
Expiration Date: 12/30/2019

| # | Product | Description | Qty | Sell Price | Total |
|------|------------|----------------|-----|------------|-------|
| 1.20 | 6500147000 | Equipment Hook | | | |

| | |
|-----------------------|-------------|
| Equipment List Price: | \$23,152.00 |
| Equipment Discount %: | 18.0% |
| Equipment Total: | \$18,984.64 |

Price Totals:

| | |
|--------------|-------------|
| Grand Total: | \$18,984.64 |
|--------------|-------------|

Prices: In effect for 60 days.
Terms: Net 30 Days

Ask your Stryker Sales Rep about our flexible financing options.

AUTHORIZED CUSTOMER SIGNATURE



Trumbull EMS Power Load

Quote Number: 10100258
 Version: 1
 Prepared For: TRUMBULL EMS
 Attn:

Remit to: P.O. Box 93308
 Chicago, IL 60673-3308
 Rep: Michael Hooper
 Email: michael.hooper2@stryker.com
 Phone Number:

Quote Date: 12/18/2019
 Expiration Date: 03/17/2020

| Delivery Address | | End User - Shipping - Billing | | Bill To Account | |
|------------------|---|-------------------------------|---|-----------------|---|
| Name: | TRUMBULL EMS | Name: | TRUMBULL EMS | Name: | TRUMBULL EMS |
| Account #: | 1196423 | Account #: | 1196423 | Account #: | 1196423 |
| Address: | 250 MIDDLEBROOKS AVE TRUMBULL Connecticut 06611 | Address: | 250 MIDDLEBROOKS AVE TRUMBULL Connecticut 06611 | Address: | 250 MIDDLEBROOKS AVE TRUMBULL Connecticut 06611 |

Equipment Products:

| # | Product | Description | Qty | Sell Price | Total |
|-----|--------------|--------------------------------|-----|-----------------------|-------------|
| 1.0 | 6390000000 | PowerLOAD | 1 | \$22,457.55 | \$22,457.55 |
| 1.1 | 6390026000 | Standard Comp 6390 Power-Load | | \$0.00 | \$0.00 |
| 1.2 | 6390029000 | NO FLOORPLATE OPTION | | \$0.00 | \$0.00 |
| 1.3 | 639000220000 | ONE PER ORDER, MANUAL, ENG OPT | | \$0.00 | \$0.00 |
| 1.4 | 6390600000 | English Manual | | \$0.00 | \$0.00 |
| 1.5 | 639000010902 | LABEL, WIRELESS | | \$0.00 | \$0.00 |
| 1.6 | 7777881660 | 1 year parts, labor & travel | | \$0.00 | \$0.00 |
| | | | | Equipment List Price: | \$28,213.00 |
| | | | | Equipment Discount %: | 20.4% |
| | | | | Equipment Total: | \$22,457.55 |

Price Totals:

Grand Total: \$22,457.55

Prices: In effect for 60 days.

Terms: Net 30 Days

Ask your Stryker Sales Rep about our flexible financing options.



Trumbull EMS Power Load

Quote Number: 10100258
Version: 1
Prepared For: TRUMBULL EMS
Attn:

Remit to: P.O. Box 93308
Chicago, IL 60673-3308
Rep: Michael Hooper
Email: michael.hooper2@stryker.com
Phone Number:

Quote Date: 12/18/2019
Expiration Date: 03/17/2020

AUTHORIZED CUSTOMER SIGNATURE

TOWN OF TRUMBULL
BOARD OF FINANCE

REQUEST FOR ACTION

DATE: 9-Jan-20
AGENDA: 01-20-03
AMOUNT: \$93,280

2020-2021

(A) APPROPRIATION [X]

FROM: ACCOUNT NO.
ACCOUNT NAME General Fund - Fund Balance \$93,280

(B) TRANSFER []

TO: ACCOUNT NO. 01022600-522202

(C) BOND []

ACCOUNT NAME EMS-Professional Services \$93,280

(D) SUMMARY OF REQUEST:

To cover EMTs that were inandvertently left out of the budget.

(E) REQUESTED BY:

Leigh Goodman, EMS Chief

(F) SUPPORTING DATA:

See attached

(G) CONCURRENCE:

YES NO NEED ADD'L INFORMATION



Vicki A. Tesoro, First Selectman

(H) BOARD OF FINANCE ACTION:

1. APPROVED___
2. RECOMMENDED TO TOWN COUNCIL___
3. TABLED___
4. DENIED___
5. OTHER___

| TRANSFER NUMBER | ACCOUNT DESCRIPTION | ACCOUNT # | BALANCE BEFORE TRANSFER | AMOUNT OF TRANSFER | BALANCE AFTER TRANSFER |
|----------------------------|---|------------------|--|-------------------------------|---------------------------------------|
| 01-20-03 | FROM GENERAL FUND - FUND BALANCE | | | <u>(93,280.00)</u> | |
| | TO EMS PROFESSIONAL SERVICES | 01022600-522202 | 160,050.00 | 93,280.00 | 253,330.00 |
| | TO COVER EMT'S WHICH WERE INADVERTENTLY LEFT OUT OF THE BUDGET | | | | |

| DATE | FROM | TO ACCOUNT NAME | TO ACCOUNT NUMBER | ITEM | AMOUNT |
|----------------------|--------------|---------------------------|-------------------|-----------------------|--------------------|
| 01/09/20 | General Fund | EMS-Professional Services | #01022600- 522202 | EMT/MEDIC VENDOR FEES | \$86,250.00 |
| 01/09/20 | General Fund | EMS-Professional Services | #01022600- 522202 | EMT/MEDIC VENDOR FEES | \$7,030.00 |
| ACCOUNT TOTAL | | | | | \$93,280.00 |

ITEM REQUEST SUMMARY FOR EMT VENDOR FUNDS

TRUMBULL EMS FUNDING FOR EMT STAFF

Trumbull EMS is requesting supplemental funding to cover costs for EMT/Paramedic staffing. The funds were inadvertently removed from the budget when the paramedic staff from the same vendor were removed when we transitioned to a new vendor.

| ITEM DESCRIPTION | ITEM DETAIL | PROJECTED COST |
|-------------------|---|--------------------|
| EMT FUNDING | EMT hourly rate of \$26.16, as per current contract | \$86,250.00 |
| PARAMEDIC FUNDING | Allows for late calls/hold/QA/SUP cover as needed | \$7,030.00 |
| TOTAL | | \$93,280.00 |

Based on our analysis of our professional account this year and vendor payments review FY to date, we have determined the appropriate amount which should have been in our initial budget and are respectfully requesting the amount be transferred from the General fund to this Account.

FOR 2020 99

| ACCOUNTS FOR: 01 GENERAL FUND | ORIGINAL APPROP | TRANFRS/ ADJSTMTS | REVISED BUDGET | YTD EXPENDED | ENCUMBRANCES | AVAILABLE BUDGET | PCT USED |
|-------------------------------------|--------------------|----------------------|-------------------|--------------|--------------|---------------------|-------------|
| ----- | | | | | | | |
| 01022600 EMERGENCY MEDICAL SERVICES | | | | | | | |
| ----- | | | | | | | |
| 01022600 440000 FEE REVENUE | -1,550,000 | 0 | -1,550,000 | -807,536.87 | .00 | -742,463.13 | 52.1% |
| TOTAL EMERGENCY MEDICAL SERVICES | -1,550,000 | 0 | -1,550,000 | -807,536.87 | .00 | -742,463.13 | 52.1% |
| TOTAL GENERAL FUND | -1,550,000 | 0 | -1,550,000 | -807,536.87 | .00 | -742,463.13 | 52.1% |
| TOTAL REVENUES | -1,550,000 | 0 | -1,550,000 | -807,536.87 | .00 | -742,463.13 | |



TRUMBULL EMS REVENUE ANALYSIS FY2019 & FY2020 YTD

FY2019 SUMMARY

| | |
|--|----------------|
| TOTAL CALLS | 4797 |
| TOTAL TRANSPORTS | 4456 |
| AVERAGE TRANSPORT RATE | 77% |
| OPERATING BUDGET | \$1,447,415.00 |
| REVENUE GENERATED | \$1,690,330.20 |
| REVENUE GENERATED ABOVE OPERATING BUDGET | \$190,330.20 |

FY2020 YTD SUMMARY

| | |
|--|----------------|
| TOTAL CALLS YTD | 2492 |
| TOTAL TRANSPORTS YTD | 2275 |
| AVERAGE TRANSPORT RATE YTD | 78% |
| CURRENT OPERATING BUDGET | \$1,422,703.00 |
| CURRENT REVENUE GENERATED | \$856,179.54 |
| CURRENT REVENUE GENERATED ABOVE OPERATING BUDGET | N/A |

FY2020 PROJECTIONS 01/01/2020-06/30/2020

| | |
|----------------------------------|------|
| PROJECTED CALL VOLUME | 2492 |
| PROJECTED TRANSPORTS | 2275 |
| PROJECTED AVERAGE TRANSPORT RATE | 78% |

FY2020 PROJECTIONS FY2020

Based on analytics, we can cautiously project a small 4% increase in call volume and billable transports, resulting in an estimated projected increase in allowable revenue generating income. Based on historical data and current analytics we can use the following projections for the final overall totals.

| | |
|--|----------------|
| PROPOSED OPERATING BUDGET Pending BOF/TC Approval | \$1,555,283.00 |
| PROJECTED TRANSPORTS | 4984 |
| PROJECTED AVERAGE TRANSPORT RATE | 78% |
| REVENUE GENERATED YTD | \$856,179.54 |
| PROJECTED REVENUE FY2020 | 1,712,359.08 |
| PROJECTED REVENUE GENERATION ABOVE PROPOSED OPERATING BUDGET | \$157,076.08 |

**TOWN OF TRUMBULL
APPROVED CAPITAL IMPROVEMENT PLAN
CALENDAR YEARS 2020 - 2024
as of December 19, 2019**

| | CY019 Total Approved Funding | CY 2020 Planned | CY 2021 Planned | CY 2022 Planned | CY 2023 Planned | CY 2024 Planned | TOTAL CY2020 - 2024 |
|------------------------------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------------|
| BOE | 1,482,832 | 4,743,000 | 9,547,759 | 3,424,000 | 6,758,000 | 4,385,000 | \$ 28,857,759 |
| Roadways | 4,132,283 | 5,338,141 | 8,119,722 | 7,637,564 | 8,164,132 | 4,176,228 | \$ 33,435,788 |
| Public Facilities | 1,235,500 | 2,487,500 | 13,445,000 | 9,909,000 | 30,000 | 44,000 | \$ 25,915,500 |
| Parks Improvements | 692,861 | 5,081,700 | 11,435,560 | 8,370,000 | 1,026,000 | - | \$ 25,913,260 |
| Fleet & Equipment | 91,300 | 1,226,000 | 674,950 | 503,000 | 615,953 | 1,250,744 | \$ 4,270,646 |
| Other | 9,896,474 | 848,434 | 12,746,526 | 9,302,172 | 1,894,000 | - | \$ 24,791,132 |
| Enterprise | 3,780,621 | 241,000 | 5,217,358 | 1,361,328 | 1,359,358 | 250,000 | \$ 8,429,044 |
| TOTAL* | \$ 21,311,871 | \$ 19,965,775 | \$ 61,186,875 | \$ 40,507,064 | \$ 19,847,443 | \$ 10,105,971 | \$ 151,613,129 |

Five-Year Total

* Projected costs are gross amounts; actual bonded amounts will be net of any other funding sources, including State reimbursements. Amounts proposed for future periods are not adjusted for inflation.

** Town Council Approved CY 2019 is presented for information purpose only; not part of the total

| | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | TOTAL |
|----------------------------------|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | Total | Capital Plan |
| | Funding Approval | PLANNED | PLANNED | PLANNED | PLANNED | PLANNED | 2020-2024 |
| <u>Board of Education</u> | | | | | | | |
| Hillcrest Middle School | 50,000 | 132,000 | 40,000 | 532,000 | 3,200,000 | 410,000 | 4,314,000 |
| Madison Middle School | 135,000 | 1,045,000 | 75,000 | 650,000 | 425,000 | 350,000 | 2,545,000 |
| Middlebrook Elementary | 514,832 | 1,500,000 | - | - | 175,000 | 150,000 | 1,825,000 |
| Daniels Farm Elementary | 40,000 | - | 1,012,759 | - | - | 2,800,000 | 3,812,759 |
| Jane Ryan Elementary | 50,000 | 1,400,000 | 1,390,000 | 135,000 | 150,000 | - | 3,075,000 |
| Booth Hill Elementary | 60,000 | 25,000 | 1,325,000 | 120,000 | 135,000 | - | 1,605,000 |
| Tashua Elementary | - | - | - | 1,850,000 | 1,650,000 | 150,000 | 3,650,000 |
| Frenchtown Elementary | 88,000 | - | 85,000 | - | 1,023,000 | 250,000 | 1,358,000 |
| TECEC | - | - | - | - | - | - | - |
| Agriscience High School | - | - | - | 62,000 | - | 275,000 | 337,000 |
| Trumbull High School | 105,000 | - | 1,220,000 | 75,000 | - | - | 1,295,000 |
| Equip and Infra Dist Wide | 120,000 | - | - | - | - | - | - |
| Long Hill Admin Building | 100,000 | 611,000 | 3,900,000 | - | - | - | 4,511,000 |
| Bus Garage | 220,000 | 30,000 | 500,000 | - | - | - | 530,000 |
| TOAL BOE | 1,482,832 | 4,743,000 | 9,547,759 | 3,424,000 | 6,758,000 | 4,385,000 | 28,857,759 |
| <u>Roadways</u> | - | | | | | | - |
| Roadway Paving | 4,132,283 | 5,338,141 | 8,119,722 | 7,637,564 | 8,164,132 | 4,176,228 | 33,435,788 |
| TOTAL ROADWAYS | 4,132,283 | 5,338,141 | 8,119,722 | 7,637,564 | 8,164,132 | 4,176,228 | 33,435,788 |
| <u>Public Facilities</u> | - | | | | | | - |
| Trumbull Library | 180,000 | 42,000 | 3,110,000 | 3,000,000 | 30,000 | - | 6,182,000 |
| Town Hall | 200,000 | 430,000 | 285,000 | 25,000 | - | 44,000 | 784,000 |
| Town Hall Annex | - | - | - | - | - | - | - |
| Police Headquarters | 15,000 | - | 30,000 | 70,000 | - | - | 100,000 |
| Senior Center | 47,000 | 950,000 | 7,628,000 | 6,700,000 | - | - | 15,278,000 |
| Public Works Yard | 58,500 | 625,000 | 162,000 | - | - | - | 787,000 |
| EMS Building | - | 50,000 | 2,000,000 | 54,000 | - | - | 2,104,000 |
| Helen Plumb Building | - | 80,000 | 90,000 | 60,000 | - | - | 230,000 |
| Transfer Station | 735,000 | 230,500 | 140,000 | - | - | - | 370,500 |
| Townwide | - | 80,000 | - | - | - | - | 80,000 |
| TOTAL PUBLIC FACILITIES | 1,235,500 | 2,487,500 | 13,445,000 | 9,909,000 | 30,000 | 44,000 | 25,915,500 |
| <u>Parks Improvements</u> | - | | | | | | - |
| Athletic Fields | - | 1,500,000 | - | - | - | - | 1,500,000 |
| Irrigation | - | - | 25,000 | 25,000 | - | - | 50,000 |

| | CY 2019 Total Funding Approval | CY 2020 Capital Plan PLANNED | CY 2021 Capital Plan PLANNED | CY 2022 Capital Plan PLANNED | CY 2023 Capital Plan PLANNED | CY 2024 Capital Plan PLANNED | TOTAL Capital Plan 2020-2024 |
|------------------------------------|---|---|---|---|---|---|---|
| Parks | 498,000 | 351,700 | 1,402,000 | 2,000,000 | 300,000 | - | 4,053,700 |
| Paving | 194,861 | 1,365,000 | 3,198,560 | 1,345,000 | 516,000 | - | 6,424,560 |
| Pools | - | 1,115,000 | 5,935,000 | 5,000,000 | - | - | 12,050,000 |
| Tennis | - | 750,000 | 875,000 | - | 210,000 | - | 1,835,000 |
| | - | | | | | | - |
| TOTAL PARKS IMPROVEMENTS | 692,861 | 5,081,700 | 11,435,560 | 8,370,000 | 1,026,000 | - | 25,913,260 |
| Fleet & Equipment | - | | | | | | - |
| EMS | - | 120,000 | 200,000 | 207,000 | 214,245 | 221,744 | 962,989 |
| Emergency Management | - | - | - | - | - | 800,000 | 800,000 |
| Highway | - | 870,000 | 381,150 | 296,000 | 401,708 | 229,000 | 2,177,858 |
| Parks | 91,300 | 200,000 | 93,800 | - | - | - | 293,800 |
| | - | - | - | - | - | - | - |
| TOTAL FLEET & EQUIPMENT | 91,300 | 1,190,000 | 674,950 | 503,000 | 615,953 | 1,250,744 | 4,234,646 |
| Other | - | - | - | - | - | - | - |
| Economic Development | 234,000 | 50,000 | 1,940,387 | 6,811,182 | 1,801,000 | - | 10,602,569 |
| Engineering | 9,662,474 | 798,434 | 10,806,139 | 2,490,990 | 93,000 | - | 14,188,563 |
| Information Tech | - | - | - | - | - | - | - |
| Other Projects | - | - | - | - | - | - | - |
| TOTAL VARIOUS | 9,896,474 | 848,434 | 12,746,526 | 9,302,172 | 1,894,000 | - | 24,791,132 |
| Enterprise* | - | | | | | | - |
| WPCA | 3,780,621 | 241,000 | 5,100,000 | 1,200,000 | 1,200,000 | - | 7,741,000 |
| Golf | - | - | 117,358 | 161,328 | 159,358 | 250,000 | 688,044 |
| TOTAL WPCA | 3,780,621 | 241,000 | 5,217,358 | 1,361,328 | 1,359,358 | 250,000 | 8,429,044 |
| GRAND TOTAL | 21,311,871 | 19,929,775 | 61,186,875 | 40,507,064 | 19,847,443 | 10,105,971 | 151,577,129 |

| BUILDING | CATEGORY | DESCRIPTION | CY 2019 | | | | | |
|--|----------------|--|----------------|------------------|------------------|----------------|------------------|------------------|
| | | | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 |
| | | | Total Funding | Capital Plan | Capital Plan | Capital Plan | Capital Plan | Capital Plan |
| Hillcrest Middle School | Environmental | Asbestos (Flooring and Insulation) | 50,000 | 40,000 | 40,000 | | | |
| Hillcrest Middle School | Safety | Building Fire Alarm Panels | - | | - | 132,000 | | |
| Hillcrest Middle School | Safety | Remove ext. concrete shade panels | - | 92,000 | | | | |
| Hillcrest Middle School | On site | Locker Rooms renovations | - | | | 400,000 | | |
| Hillcrest Middle School | Windows | Window replacement | | | | | 3,200,000 | |
| Hillcrest Middle School | On Site const | Science Classroom upgrades | | | | | | 210,000 |
| Hillcrest Middle School | On Site const | Courtyard renovations hardscape | | | | | | 200,000 |
| Total Hillcrest School: | | | 50,000 | 132,000 | 40,000 | 532,000 | 3,200,000 | 410,000 |
| Madison Middle School | Environmental | Asbestos (Flooring and Insulation) | 75,000 | 75,000 | 75,000 | 75,000 | | |
| Madison Middle School | Electrical | Upgrade panel Infrastructure | - | | | 175,000 | | |
| Madison Middle School | HVAC | Replace RTU, exhaust fans, HV etc | - | | | | 425,000 | 150,000 |
| Madison Middle School | Construction | Locker rooms renovations | - | | | 400,000 | | |
| Madison Middle School | On Site const | Courtyard renovations hardscape | - | | | | | 200,000 |
| Madison Middle School | Design | Drainage/paving | 60,000 | | | | | |
| Madison Middle School | Construction | Detention basin construction | - | 970,000 | | | | |
| Total Madison School: | | | 135,000 | 1,045,000 | 75,000 | 650,000 | 425,000 | 350,000 |
| Middlebrook Elementary | Environmental | Asbestos (Flooring and Insulation) | 40,000 | | | | | |
| Middlebrook Elementary | Paving | Parking Lot and Driveway Paving PH2 | 474,832 | | | | | |
| Middlebrook Elementary | Roofing | Roof replacement | - | 1,500,000 | | | | |
| Middlebrook Elementary | HVAC | Replace RTU, exhaust fans, HV etc | - | | | | 175,000 | |
| Middlebrook Elementary | Electrical | Upgrade panel Infrastructure | - | | | | | 150,000 |
| Middlebrook Elementary | Photo Voltaics | ZREC Bid for Solar Installation (no cost) | - | No cost | | | | |
| Total Middlebrook Elementary School: | | | 514,832 | 1,500,000 | - | - | 175,000 | 150,000 |
| Daniels Farm Elementary | Environmental | Asbestos (Flooring and Insulation) | 40,000 | | | | | |
| Daniels Farm Elementary | Paving | Parking Lot - Sidewalks, and Driveway Paving | - | | 1,012,759 | | | |
| Daniels Farm Elementary | Windows | Window Replacement (1962) | - | | | | | 1,600,000 |
| Daniels Farm Elementary | Roofing | Roof Replacement | - | | | | | 1,200,000 |
| Total Daniels Farm Elementary School: | | | 40,000 | - | 1,012,759 | - | - | 2,800,000 |
| Jane Ryan Elementary | Environmental | Asbestos (Flooring and Insulation) | 50,000 | 50,000 | | | | |
| Jane Ryan Elementary | Paving | Parking Lot - Sidewalks, and Driveway Paving | - | 1,350,000 | | | | |
| Jane Ryan Elementary | Roofing | Roof replacement (1991) | - | | 1,300,000 | | | |
| Jane Ryan Elementary | Electrical | Update Electrical infrastructure | - | | | 135,000 | | |
| Jane Ryan Elementary | HVAC | Replace RTU, exhaust fans, HV etc | - | | | | 150,000 | |
| Jane Ryan Elementary | Elevator | Single bottom Cylinder Upgrade(code) | - | | 90,000 | | | |
| Total Jane Ryan Elementary School: | | | 50,000 | 1,400,000 | 1,390,000 | 135,000 | 150,000 | |
| Booth Hill Elementary | Environmental | Asbestos (Flooring and Insulation) | 60,000 | 25,000 | 25,000 | | | |
| Booth Hill Elementary | Electrical | Update Electrical infrastructure | - | | | 120,000 | 135,000 | |
| Booth Hill Elementary | Roofing | Roof replacement (1991) | - | | 1,300,000 | | | |
| Booth Hill Elementary | Photo Voltaics | ZREC Bid for Solar Installation | - | | | No cost | | |
| Total Booth Hill Elementary School: | | | 60,000 | 25,000 | 1,325,000 | 120,000 | 135,000 | - |

items in yellow are Engineering projects

items in yellow are

| BUILDING | CATEGORY | DESCRIPTION | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 |
|--|----------------|--|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | Total Funding | Capital Plan |
| Tashua Elementary | Paving | Parking Lot - Sidewalks, and Driveway Paving | - | - | - | 750,000 | - | - |
| Tashua Elementary | Windows | Window Replacement (1965) | - | - | - | - | 1,500,000 | - |
| Tashua Elementary | Roofing | Roof replacement (1991) | - | - | - | 1,100,000 | - | - |
| Tashua Elementary | Electrical | Update Electrical infrastructure | - | - | - | - | 150,000 | - |
| Tashua Elementary | HVAC | Replace RTU, exhaust fans, HV etc | - | - | - | - | - | 150,000 |
| Total Tashua Elementary School: | | | - | - | - | 1,850,000 | 1,650,000 | 150,000 |
| Frenchtown Elementary | Paving | Parking Lot and Driveway Paving | - | - | - | - | 1,023,000 | - |
| Frenchtown Elementary | Energy | Lighting upgrade interior/exterior LED | 88,000 | - | - | - | - | - |
| Frenchtown Elementary | HVAC | Boiler Replacement | - | - | - | - | - | 250,000 |
| Frenchtown Elementary | HVAC | Cooling Tower Replacement | - | - | 85,000 | - | - | - |
| Total Frenchtown Elementary School: | | | 88,000 | - | 85,000 | - | 1,023,000 | 250,000 |
| Agriscience High School | On Site Const | Fencing Replacement | - | - | - | 62,000 | - | - |
| Agriscience High School | HVAC | Boiler replacements | - | - | - | - | - | 275,000 |
| Agriscience High School | Photo Voltaics | ZREC Bid for Solar Installation | - | no cost | - | - | - | - |
| Total Agriscience High School: | | | - | - | - | 62,000 | - | 275,000 |
| Trumbull High School | Athletic Field | THS Fields ADA Accessibility | 105,000 | - | - | - | - | - |
| Trumbull High School | On Site Const | Athletic field Storage Building 20 x 25 | - | - | - | 75,000 | - | - |
| Trumbull High School | On Site Const | Wellness/Fitness Center | - | - | 1,100,000 | - | - | - |
| Trumbull High School | HVAC | Cooling tower sump replacement | - | - | 120,000 | - | - | - |
| Total Trumbull High School: | | | 105,000 | - | 1,220,000 | 75,000 | - | - |
| Equip and Infra Dist Wide | Equipment | Vehicle Replacements w/plows | 120,000 | - | - | - | - | - |
| Total Equip and Infra Dist Wide: | | | 120,000 | - | - | - | - | - |
| Long Hill Admin Building | Paving | Parking Lot Drainage & paving | - | 461,000 | - | - | - | - |
| Long Hill Admin Building | Roofing | Roof Replacement | - | - | - | - | - | - |
| Long Hill Admin Building | HVAC | Boilers and AC | - | - | - | - | - | - |
| Long Hill Admin Building | Assessment | Facility Assessment & Review | 100,000 | - | - | - | - | - |
| Long Hill Admin Building | Construction | New Administration building | - | - | 3,900,000 | - | - | - |
| Long Hill Admin Building | Constuction | Build Data Center at High School | - | 150,000 | - | - | - | - |
| Total Long Hill Admin Building: | | | 100,000 | 611,000 | 3,900,000 | - | - | - |
| Bus Garage | Paving | Parking lot paving and drainage 30ksf | 220,000 | - | - | - | - | - |
| Bus Garage | Paving | Parking lot design & permitting | - | 30,000 | - | - | - | - |
| Bus Garage | Paving | Parking lot construction | - | - | 500,000 | - | - | - |
| Total Bus Garage: | | | 220,000 | 30,000 | 500,000 | - | - | - |
| GRAND TOTAL | | | 1,482,832 | 4,743,000 | 9,547,759 | 3,424,000 | 6,758,000 | 4,385,000 |

items in yellow are Enginnering projects added by HWY

* Will enter into Performance Contract for Energy Efficiency projects to be paid over 10 years.

| CATEGORY | DESCRIPTION | LOCATION | CY 2019 | CY 2020 Capital Plan | CY 2021 Capital Plan | CY 2022 Capital Plan | CY 2023 Capital Plan | CY 2024 Capital Plan |
|----------|-------------|-----------------------------------|--------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | CY 2019 Total Funding Approval | | | | | |
| Roadways | Paving | Hardy Lane | 100,000 | | | | | |
| Roadways | Paving | Cemetery Dr | - | | | | | |
| Roadways | Paving | Center Rd | - | | | | | |
| Roadways | Paving | Harvest Hill Road | 111,898 | | | | | |
| Roadways | Paving | Area) | 1,335,607 | | | | | |
| Roadways | Paving | JUDSON ST | 45,316 | | | | | |
| Roadways | Paving | Middlebrooks Ave (Design in 2017) | - | | | | | |
| Roadways | Paving | Shelton Rd | 80,000 | | | | | |
| Roadways | Paving | TELLER RD (up to Beach Hill) | 95,923 | | | | | |
| Roadways | Paving | WOODRIDGE CIR | 236,118 | | | | | |
| Roadways | Paving | ROCKY HILL RD (S) | 182,978 | | | | | |
| Roadways | Paving | ROCKY HILL TER | 238,166 | | | | | |
| Roadways | Paving | BONNIE VIEW DR | 176,668 | | | | | |
| Roadways | Paving | GLENBROOK RD | 187,422 | | | | | |
| Roadways | Paving | FRANKLIN ST | 92,187 | | | | | |
| Roadways | Paving | Hill Culvert) | 100,000 | | | | | |
| Roadways | Paving | Old Dike Road (not in 5yr CIP) | 20,000 | | | | | |
| Roadways | Paving | ABRIC DR | | 107,467 | | | | |
| Roadways | Paving | ANITA AVE | | 105,467 | | | | |
| Roadways | Paving | ARAGON DR | | 137,100 | | | | |
| Roadways | Paving | BONHEUR RD | | 69,533 | | | | |
| Roadways | Paving | CAMPBELL RD | | 66,453 | | | | |
| Roadways | Paving | CANOE BROOK RD (Dale to Madison) | | 88,542 | | | | |
| Roadways | Paving | CHATFIELD DR | | 261,773 | | | | |
| Roadways | Paving | CLAIRE PL | | 64,213 | | | | |
| Roadways | Paving | DALE RD | | 123,867 | | | | |
| Roadways | Paving | DAYTON CIR | | 31,964 | | | | |
| Roadways | Paving | ELMWOOD AVE | | 119,700 | | | | |
| Roadways | Paving | FIELDSTONE CT | | 79,920 | | | | |
| Roadways | Paving | GAYLORD RD | | 69,291 | | | | |
| Roadways | Paving | GREEN ST | | 65,600 | | | | |
| Roadways | Paving | HITCHING POST LN | | 59,867 | | | | |
| Roadways | Paving | LEIGHTON RD | | 84,087 | | | | |
| Roadways | Paving | MADISON AVE | | 570,000 | | | | |
| Roadways | Paving | MAYMONT LN | | 139,867 | | | | |
| Roadways | Paving | MERRILL RD | | 87,189 | | | | |
| Roadways | Paving | PLATTSVILLE RD | | 49,671 | | | | |
| Roadways | Paving | RANGELY DR | | 312,480 | | | | |
| Roadways | Paving | RICHFIELD RD | | 76,813 | | | | |

| CATEGORY | DESCRIPTION | LOCATION | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 |
|----------|-------------|------------------|---------------------------|--------------|--------------|--------------|--------------|--------------|
| | | | Total Funding Approval | Capital Plan |
| Roadways | Paving | SHELBOURNE RD | | 56,373 | | | | |
| Roadways | Paving | SHELTON RD | | 1,201,200 | | | | |
| Roadways | Paving | WALNUT AVE | | 106,438 | | | | |
| Roadways | Paving | WINSLOW RD | | 73,267 | | | | |
| Roadways | Paving | BEACH HILL DR | | | 118,792 | | | |
| Roadways | Paving | BEECH TREE CIR | | | 75,386 | | | |
| Roadways | Paving | BERRY LN | | | 28,080 | | | |
| Roadways | Paving | BLUEBERRY RD | | | 66,133 | | | |
| Roadways | Paving | BOB WHITE LN | | | 76,667 | | | |
| Roadways | Paving | BONAZZO DR | | | 110,986 | | | |
| Roadways | Paving | CALDRON DR | | | 44,408 | | | |
| Roadways | Paving | CAROLINE ST | | | 68,945 | | | |
| Roadways | Paving | CHATHAM DR | | | 124,133 | | | |
| Roadways | Paving | FOSTER AVE | | | 50,226 | | | |
| Roadways | Paving | GREAT NECK RD | | | 359,285 | | | |
| Roadways | Paving | HILLCREST RD | | | 140,648 | | | |
| Roadways | Paving | HILLSTON RD | | | 239,333 | | | |
| Roadways | Paving | INTERVALE RD | | | 27,467 | | | |
| Roadways | Paving | JUNIPER CIR | | | 39,676 | | | |
| Roadways | Paving | JUNIPER RIDGE RD | | | 235,260 | | | |
| Roadways | Paving | KNOLLCREST CT | | | 22,720 | | | |
| Roadways | Paving | KNOLLCREST DR | | | 74,074 | | | |
| Roadways | Paving | LAURIE RD | | | 223,627 | | | |
| Roadways | Paving | LEFFERT RD | | | 284,478 | | | |
| Roadways | Paving | MADISON AVE | | | 810,000 | | | |
| Roadways | Paving | MERRITT BLVD | | | 324,132 | | | |
| Roadways | Paving | OAKRIDGE RD | | | 614,755 | | | |
| Roadways | Paving | PAULINE ST | | | 74,225 | | | |
| Roadways | Paving | PEPPERIDGE RD | | | 59,117 | | | |
| Roadways | Paving | QUAIL TRL | | | 240,423 | | | |
| Roadways | Paving | REINER CIR | | | 90,423 | | | |
| Roadways | Paving | REINER DR | | | 169,853 | | | |
| Roadways | Paving | ROCKY RIDGE DR | | | 355,182 | | | |
| Roadways | Paving | ROLLING WOOD DR | | | 353,826 | | | |
| Roadways | Paving | ROUND HILL RD | | | 277,574 | | | |
| Roadways | Paving | STELLA ST | | | 144,954 | | | |
| Roadways | Paving | STIRRUP DR | | | 50,493 | | | |
| Roadways | Paving | TELLER RD | | | 123,533 | | | |
| Roadways | Paving | TOPAZ LN | | | 106,055 | | | |
| Roadways | Paving | VAZZANO PL | | | 80,281 | | | |
| Roadways | Paving | WILDFLOWER LN | | | 78,472 | | | |
| Roadways | Paving | WOODMERE DR | | | 256,102 | | | |
| Roadways | Paving | BASSICK RD | | | | 178,267 | | |
| Roadways | Paving | BIRCH ST (S) | | | | 60,933 | | |
| Roadways | Paving | BOLIN CIR | | | | 37,859 | | |
| Roadways | Paving | BROADWAY | | | | 73,802 | | |

| | | | CY 2019 | | | | | |
|----------|-------------|-------------------|--------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| CATEGORY | DESCRIPTION | LOCATION | CY 2019 Total Funding Approval | CY 2020 Capital Plan | CY 2021 Capital Plan | CY 2022 Capital Plan | CY 2023 Capital Plan | CY 2024 Capital Plan |
| Roadways | Paving | BROCK ST | | | | 35,933 | | |
| Roadways | Paving | CEDAR CREST RD | | | | 63,709 | | |
| Roadways | Paving | CHESTNUT ST | | | | 107,067 | | |
| Roadways | Paving | COLONY AVE | | | | 174,907 | | |
| Roadways | Paving | DANIELS FARM RD | | | | 2,159,990 | | |
| Roadways | Paving | DUNELLEN RD | | | | 77,187 | | |
| Roadways | Paving | FAIRCHILD CIR | | | | 43,237 | | |
| Roadways | Paving | FAIRCHILD RD | | | | 254,220 | | |
| Roadways | Paving | GARDEN ST | | | | 158,933 | | |
| Roadways | Paving | GROVE ST | | | | 186,400 | | |
| Roadways | Paving | INWOOD RD | | | | 154,093 | | |
| Roadways | Paving | JOG HILL RD | | | | 253,493 | | |
| Roadways | Paving | OLD ELM RD | | | | 20,463 | | |
| Roadways | Paving | OLDFIELD RD | | | | 260,358 | | |
| Roadways | Paving | ORCHARD ST | | | | 188,814 | | |
| Roadways | Paving | ROCKY HILL RD (N) | | | | 84,056 | | |
| Roadways | Paving | SEQUOIA RD | | | | 24,533 | | |
| Roadways | Paving | SPRINGWOOD DR | | | | 125,332 | | |
| Roadways | Paving | WHIPPOORWILL LN | | | | 39,867 | | |
| Roadways | Paving | WILLIAMS RD | | | | 1,135,256 | | |
| Roadways | Paving | WILMOT AVE | | | | 55,600 | | |
| Roadways | Paving | WOOLSLEY AVE | | | | 183,254 | | |
| Roadways | Paving | APPLE ORCHARD LN | | | | | 39,573 | |
| Roadways | Paving | ASBURY RD | | | | | 101,640 | |
| Roadways | Paving | BONITA AVE | | | | | 86,697 | |
| Roadways | Paving | BULL FROG LN | | | | | 112,000 | |
| Roadways | Paving | CANTERBURY LN | | | | | 244,347 | |
| Roadways | Paving | CRABAPPLE RD | | | | | 112,280 | |
| Roadways | Paving | EAST LAKE RD | | | | | 61,976 | |
| Roadways | Paving | EDDIE RD | | | | | 73,946 | |
| Roadways | Paving | EDITH ST (W) | | | | | 26,357 | |
| Roadways | Paving | FERN CIR | | | | | 139,222 | |
| Roadways | Paving | FLINT ST | | | | | 102,169 | |
| Roadways | Paving | FRELMA DR | | | | | 86,436 | |
| Roadways | Paving | GARLAND CIR | | | | | 141,912 | |
| Roadways | Paving | GARWOOD RD | | | | | 313,934 | |
| Roadways | Paving | GIBSON AVE | | | | | 154,280 | |
| Roadways | Paving | HISTON RD | | | | | 115,067 | |
| Roadways | Paving | HORSE TAVERN RD | | | | | 208,600 | |
| Roadways | Paving | JEROME AVE | | | | | 209,689 | |
| Roadways | Paving | LAKE AVE | | | | | 630,653 | |
| Roadways | Paving | LILLIAN DR | | | | | 263,947 | |
| Roadways | Paving | LINDEMAN DR | | | | | 208,583 | |
| Roadways | Paving | LINLEY RD | | | | | 210,267 | |
| Roadways | Paving | MACARTHUR RD | | | | | 113,545 | |
| Roadways | Paving | OAKVIEW DR | | | | | 204,960 | |
| Roadways | Paving | OLD COACH LN | | | | | 62,720 | |
| Roadways | Paving | OLD TOWN RD (C) | | | | | 108,649 | |
| Roadways | Paving | PARK LN | | | | | 364,877 | |
| Roadways | Paving | PETERS RD | | | | | 88,133 | |
| Roadways | Paving | READING RD | | | | | 105,280 | |

| CATEGORY | DESCRIPTION | LOCATION | CY 2019 | CY 2020 Capital Plan | CY 2021 Capital Plan | CY 2022 Capital Plan | CY 2023 Capital Plan | CY 2024 Capital Plan |
|--------------------|-------------|--------------------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | Total Funding Approval | | | | | |
| Roadways | Paving | REGINA ST | | | | | 215,289 | |
| Roadways | Paving | RESERVOIR AVE | | | | | 488,406 | |
| Roadways | Paving | RUTH ST | | | | | 137,600 | |
| Roadways | Paving | TWIN BROOKS DR | | | | | 251,348 | |
| Roadways | Paving | TWITCHGRASS RD | | | | | 332,947 | |
| Roadways | Paving | WISTERIA DR | | | | | 160,511 | |
| Roadways | Paving | ASCOLESE RD | | | | | | 218,039 |
| Roadways | Paving | BEARDSLEY PKWY | | | | | | 581,887 |
| Roadways | Paving | BITTERSWEET LN | | | | | | 96,000 |
| Roadways | Paving | CATHERINE ST (S) | | | | | | 166,009 |
| Roadways | Paving | CRESCENT LN | | | | | | 122,702 |
| Roadways | Paving | GWENDOLYN DR | | | | | | 74,433 |
| Roadways | Paving | MADISON AVE | | | | | | 337,269 |
| Roadways | Paving | RIVERSIDE DR | | | | | | 67,291 |
| Roadways | Paving | SPRING HILL RD | | | | | | 163,145 |
| Roadways | Paving | STERLING RD | | | | | | 325,078 |
| Roadways | Paving | TASHUA RD | | | | | | 142,290 |
| Roadways | Paving | TECHNOLOGY DR | | | | | | 137,566 |
| Roadways | Paving | TREFOIL DR | | | | | | 218,854 |
| Roadways | Paving | TURNEY PL | | | | | | 62,527 |
| Roadways | Paving | WALKER RD | | | | | | 164,764 |
| Roadways | Paving | WHITEFIELD DR | | | | | | 79,333 |
| Roadways | Paving | WHITNEY AVE | | | | | | 114,173 |
| Roadways | Paving | WOOD AVE | | | | | | 179,867 |
| Roadways | Paving | Drainage | 1,050,000 | 1,050,000 | 1,400,000 | 1,400,000 | 1,400,000 | 850,000 |
| Roadways | Paving | Video Inspection for Plan Year Roads | 80,000 | 80,000 | 100,000 | 100,000 | 100,000 | 75,000 |
| | | | - | | | | | |
| GRAND TOTAL | | | 4,132,283 | 5,338,141 | 8,119,722 | 7,637,564 | 8,164,132 | 4,176,228 |

Note Road paving for proposed sewer projects

| BUILDING | CATEGORY | DESCRIPTION | CY 2019 | CY 2020 Capital Plan | CY 2021 Capital Plan | CY 2022 Capital Plan | CY 2023 Capital Plan | CY 2024 Capital Plan |
|----------------------------------|-------------------|---|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | CY 2019 Total Funding Approval | | | | | |
| | | | - | | | | | |
| Trumbull Library | Mechanical | 50 Ton Condenser Unit | 180,000 | | | | | |
| Trumbull Library | Construction | Construction and library modernization | - | | 3,000,000 | 3,000,000 | | |
| Trumbull Library | Mechanical | Replace security and fire alarm system (non-proprietary system) | - | 42,000 | | | | |
| Trumbull Library | Site Construction | Parking Lot Expansion for 35 spaces | - | | 110,000 | | | |
| Trumbull Library | Mechanical | Replace BMS (Building Management System) | - | | | | 30,000 | |
| Total Trumbull Library | | | 180,000 | 42,000 | 3,110,000 | 3,000,000 | 30,000 | - |
| | | | - | | | | | |
| Town Hall | Construction | TH upgrades, dept relocations & service counter accessibility | 175,000 | | | | | |
| Town Hall | Construction | Sidewalk replacement | 25,000 | 25,000 | 25,000 | 25,000 | | |
| Town Hall | Construction | Tax collector security counters | | 80,000 | | | | |
| Town Hall | Mechanical | Consulting services for plans & specs to replace HVAC system | - | 25,000 | | | | |
| Town Hall | Mechanical | Replace HVAC system | - | 300,000 | | | | |
| Town Hall | Construction | Restroom Renovations - ADA compliant (2) | | | 260,000 | | | |
| Town Hall | Finishes | Floor Tiling | - | - | | | | 44,000 |
| Total Town Hall | | | 200,000 | 430,000 | 285,000 | 25,000 | - | 44,000 |
| | | | - | | | | | |
| Police Headquarters | Misc. | Garage Doors repairs | 15,000 | - | | | | |
| Police Headquarters | Mechanical | Connect HVAC system to BMS (Building Management System) | - | | 30,000 | | | |
| Police Headquarters | Misc. | Bathroom Renovations (upstairs) | - | - | | 70,000 | | |
| Total Police Headquarters | | | 15,000 | - | 30,000 | 70,000 | - | - |
| | | | - | | | | | |

| BUILDING | CATEGORY | DESCRIPTION | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 |
|----------------------------|--------------|--|---|----------------|------------------|------------------|---------|---------|
| | | | <i>CY 2019 Total Funding Approval</i> | | | | | |
| | | | - | | | | | |
| Senior Center | Design | Sr. Center redesign & renovation feasibility study | - | | | | | |
| Senior Center | Masonry | Exterior Walls - Below Ground Level | 12,000 | | | | | |
| Senior Center | Masonry | Repoint/Clean/Seal Exterior Walls Above Ground Level | 35,000 | | | | | |
| Senior Center | Construction | Sr. Center design & community approval efforts | - | 950,000 | | | | |
| Senior Center | Construction | Sr. Center construction | - | | 6,500,000 | 6,500,000 | | |
| Senior Center | Mechanical | Replace A/C in multi-purpose room | - | | 50,000 | | | |
| Senior Center | Construction | Renovate 2nd floor kitchen | - | | 250,000 | | | |
| Senior Center | Mechanical | Elevator modernization and upgrades (2) | - | | 200,000 | 200,000 | | |
| Senior Center | Construction | Install handicap ramps and ADA door opener | | | 33,000 | | | |
| Senior Center | Paving | New parking lot - paving | | | 170,000 | | | |
| Senior Center | Paving | Existing parking lot - paving | | | 370,000 | | | |
| Senior Center | Construction | Replace windows at Social Services | | | 55,000 | | | |
| | | | - | | | | | |
| Total Senior Center | | | 47,000 | 950,000 | 7,628,000 | 6,700,000 | - | - |
| | | | - | | | | | |
| Public Works Yard | Construction | Shingle Roof replacement - Garage building | 58,500 | | | | | |
| Public Works Yard | Construction | Town Yard Garage maintenance/replacement/culvert | - | 450,000 | | | | |
| Public Works Yard | Construction | Structural improvements to plow garage #2 and bay door replacement | - | 175,000 | | | | |
| Public Works Yard | Construction | Siding replacement building #6 | - | | 82,000 | | | |
| Public Works Yard | Construction | Emergency stairwell installation building #6 | - | | 80,000 | | | |

| BUILDING | CATEGORY | DESCRIPTION | CY 2019 | CY 2020 Capital Plan | CY 2021 Capital Plan | CY 2022 Capital Plan | CY 2023 Capital Plan | CY 2024 Capital Plan |
|------------------------------------|-------------------|---|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | CY 2019 Total Funding Approval | | | | | |
| | | | - | | | | | |
| | | | - | | | | | |
| Total Public Works Yard | | | 58,500 | 625,000 | 162,000 | - | - | - |
| | | | - | | | | | |
| EMS Building | Site Construction | Reconfiguration/Expansion Design | - | 50,000 | | | | |
| EMS Building | Site Construction | Reconfiguration/Expansion | - | | 2,000,000 | | | |
| EMS Building | Mechanical | RTU Rooftop Unit Replacement | - | | | 54,000 | | |
| | | | - | | | | | |
| Total EMS Building | | | - | 50,000 | 2,000,000 | 54,000 | - | - |
| | | | - | | | | | |
| Helen Plumb Building | Mechanical | HVAC system replacement | - | 80,000 | | | | |
| Helen Plumb Building | Site Construction | Window replacement | - | | 90,000 | | | |
| Helen Plumb Building | Site Construction | Roof replacement | - | | | 60,000 | | |
| | | | - | | | | | |
| Total Hellen Plumb Building | | | - | 80,000 | 90,000 | 60,000 | - | - |
| | | | - | | | | | |
| Transfer Station | Site Construction | Road Widening *** | 735,000 | | | | | |
| Transfer Station | Site Construction | Concrete Slab repair ^{-a)} | - | 45,000 | | | | |
| Transfer Station | Mechanical | Transfer Station generator ^{-a)} | - | 155,500 | | | | |
| Transfer Station | Site Construction | Roof replacement ^{-a)} | - | | 140,000 | | | |
| Transfer Station | Site Construction | Pre-fabricated salt shed ^{-a)} | - | 30,000 | | | | |
| | | | - | | | | | |
| Total Transfer Station | | | 735,000 | 230,500 | 140,000 | - | - | - |
| | | | - | | | | | |

| BUILDING | CATEGORY | DESCRIPTION | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 |
|-----------------------|--------------|---------------------------|---|------------------|-------------------|------------------|---------------|---------------|
| | | | <i>CY 2019 Total Funding Approval</i> | | | | | |
| | | | - | | | | | |
| Townwide | Construction | Townwide sidewalk repairs | - | 80,000 | | | | |
| | | | - | | | | | |
| | | | - | | | | | |
| Total Townwide | | | - | 80,000 | - | - | - | - |
| GRAND TOTAL | | | 1,235,500 | 2,487,500 | 13,445,000 | 9,909,000 | 30,000 | 44,000 |

*** Total project \$1,225,000 → Trumbull portion 60%, TEAM portion 40%

a) TEAM expense

| CATEGORY | LOCATION | DESCRIPTION | CY 2019 | CY 2020 Capital Plan | CY 2021 Capital Plan | CY 2022 Capital Plan | CY 2023 Capital Plan | CY 2024 Capital Plan |
|------------------------------|-------------------|--|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | <i>CY 2019 Total Funding Approval</i> | | | | | |
| Athletic Fields | Indian Ledge | New Construction of multi-purpose artificial field with lighting | - | 1,500,000 | | | | |
| Total Athletic Fields | | | - | 1,500,000 | - | - | - | - |
| Irrigation | Twin Brooks | Irrigation (replacement) | - | | 25,000 | | | |
| Irrigation | Bills Property | New irrigation system at Mary Bill's Field | - | | | 25,000 | | |
| Total Irrigation | | | - | - | 25,000 | 25,000 | - | - |
| Parks | Various Locations | Pavilion Roof Replacements (4) | 64,000 | | | | | |
| Parks | Gunther Park | Dredging Construction | 278,000 | | | | | |
| Parks | Various Locations | Rest Room Upgrades - Roof, Lighting & Plumbing (7) | 56,000 | 56,000 | 56,000 | | | |
| Parks | Various Locations | Wooden guardrail and installation | 100,000 | 50,000 | 50,000 | | | |
| Parks | Bills Property | Bills Property Design | - | | 50,000 | | | |
| Parks | Bills Property | Bills Property Development | - | | 200,000 | | | |
| Parks | Indian Ledge | Sprinkler park replacement | - | | 200,000 | | | |
| Parks | Twin Brooks | Dredging - Design | - | 45,700 | | | | |
| Parks | Twin Brooks | Dredging | - | | 500,000 | | | |
| Parks | Beaches Pool | Sprinkler park replacement | - | | | | 300,000 | |

| CATEGORY | LOCATION | DESCRIPTION | CY 2019 | CY 2020 Capital Plan | CY 2021 Capital Plan | CY 2022 Capital Plan | CY 2023 Capital Plan | CY 2024 Capital Plan |
|---------------------|----------------------------|--|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | <i>CY 2019 Total Funding Approval</i> | | | | | |
| Parks | Kaatz Pond | Dredging | - | | 286,000 | | | |
| Parks | Abraham Nichols Barn | Roofing, windows, doors replacing, exterior paint | - | | 60,000 | | | |
| Parks | Design | Veteran's center design | - | 200,000 | | | | |
| Parks | Construction | Veteran's center construction ^{-a)} | - | | | 2,000,000 | | |
| | | | - | | | | | |
| Total Parks | | | 498,000 | 351,700 | 1,402,000 | 2,000,000 | 300,000 | - |
| | | | - | | | | | |
| Paving | Indian Ledge | Partial paving | 194,861 | | | | | |
| Paving | Indian Ledge | Paving (phase 1) | | 865,000 | | | | |
| Paving | Indian Ledge | Paving (phase 2) | | | 273,000 | | | |
| Paving | Indian Ledge | Paving (phase 3) | | | | 468,000 | | |
| Paving | Indian Ledge | Paving (phase 4) | | | | | 516,000 | |
| Paving | Unity Park | Drainage / Paving | - | | 840,000 | | | |
| Paving | Twin Brooks | Drainage / Paving | - | 500,000 | 500,000 | 877,000 | | |
| Paving | Old Mine/Counseling Center | Drainage / Paving (parking lots, driveway and roadway) | | | 1,180,560 | | | |
| Paving | Abraham Nichols Barn/Park | Paving | - | | 405,000 | | | |
| | | | | | | | | |
| Total Paving | | | 194,861 | 1,365,000 | 3,198,560 | 1,345,000 | 516,000 | - |
| | | | - | | | | | |

| CATEGORY | LOCATION | DESCRIPTION | CY 2019 | CY 2020 Capital Plan | CY 2021 Capital Plan | CY 2022 Capital Plan | CY 2023 Capital Plan | CY 2024 Capital Plan |
|---------------------|--------------|---|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | CY 2019 Total Funding Approval | | | | | |
| Pools | Tashua Pool | Complete pool design/upgrades and renovation - design | - | 165,000 | | | | |
| Pools | Tashua Pool | Complete pool design/upgrades and renovation - construction | - | | 935,000 | | | |
| Pools | TBD | Aquatics Facility / Improvements design/surveys | - | 950,000 | | | | |
| Pools | TBD | Aquatics Facility / Improvements | - | | 5,000,000 | 5,000,000 | | |
| Total Pools | | | - | 1,115,000 | 5,935,000 | 5,000,000 | - | - |
| | | | - | | | | | |
| Tennis | Unity | Tennis/Pickleball Court Replacement | - | 375,000 | | | | |
| Tennis | Tashua | Tennis Court Replacement (Courts # 1-4) | - | 375,000 | | | | |
| Tennis | Tashua | Tennis Court Replacement (Court # 5-8) | - | | 375,000 | | | |
| Tennis | Tashua | Tennis Court Lighting (Courts # 5-8) | - | | 200,000 | | | |
| Tennis | Island Brook | Tennis Court Replacement (3) | - | | 300,000 | | | |
| Tennis | Nothnagle | Tennis Court Replacement (2) | - | | | | 210,000 | |
| Total Tennis | | | - | 750,000 | 875,000 | - | 210,000 | - |
| GRAND TOTAL | | | 692,861 | 5,081,700 | 11,435,560 | 8,370,000 | 1,026,000 | - |

^{-a)} **Potential Grant for Veteran Center Construction**

| | | | | | | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 |
|-----------------------------------|--|---------------|--------------------------------------|-----------|-----------------------|---|----------------|----------------|----------------|----------------|----------------|
| DEPT | CURRENT PLATE | Make | MODEL / DESCRIPTION | YEAR | VIN (current vehicle) | CY 2019 Total Funding Approval | Capital Plan |
| EMS | | | AMBULANCE - Sprinter | | | - | 120,000 | | | | |
| <i>EMS</i> | | | <i>AMBULANCE - BOX</i> | | | | | <i>200,000</i> | <i>207,000</i> | <i>214,245</i> | <i>221,744</i> |
| EMS Total | | | | | | - | 120,000 | 200,000 | 207,000 | 214,245 | 221,744 |
| Emergency Management | Replacing: 155TR | TBD | MOBILE COMMAND CENTER ^{-a)} | 2006 | 1R9US24236B295798 | - | | | | | 800,000 |
| Emergency Management Total | | | | | | - | - | - | - | - | 800,000 |
| Highway | Replacing: 61TR/63TR/69TR/47TR/58TR/96TR | INTERNATIONAL | FREIGHTLINER SNOWPLOW/SANDER | 1992-2002 | Various | - | 400,000 | 210,000 | 216,000 | 222,000 | 229,000 |
| Highway | NEW | STETCO | CATCH BASIN CLEANER | N/A | | - | 120,000 | | | | |
| Highway | Replacing: 283TR | TBD | 4900 4X2 - CRANE TRUCK | 1992 | 1HTSDPPN3NH453421 | - | 150,000 | | | | |
| Highway | Replacing: 162TR/118TR | TBD | RUBBER TIRE LOADER | 1988 | 33Z03110/L60EV60199 | - | | 171,150 | | 179,708 | |
| Highway | NEW | TBD | TELEHANDLER | N/A | | - | | | 80,000 | | |
| Highway | Replacing: 166TR | TBD | ROLL OFF TRUCK | 1996 | | - | 200,000 | | | | |
| Highway Total | | | | | | - | 870,000 | 381,150 | 296,000 | 401,708 | 229,000 |

| DEPT | CURRENT PLATE | Make | MODEL / DESCRIPTION | YEAR | VIN (current vehicle) | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 |
|-------------------------------------|------------------|---------------|--|------|--|---|------------------|----------------|----------------|----------------|------------------|
| | | | | | | <i>CY 2019 Total Funding Approval</i> | | | | | |
| | | | | | | - | | | | | |
| Parks | NEW | | Multi-One articulated Tractor with a Zaugg snow blower | | | 91,300 | | | | | |
| Parks | Replacing: JD110 | TBD | Tractor/loader | 2004 | Replacing John Deere - JD110 - LV0110T311312 | - | | 93,800 | | | |
| Parks | Replacing: 217TR | INTERNATIONAL | Hook Lift Truck | 2006 | | - | 200,000 | | | | |
| | | | | | | - | | | | | |
| Parks Total | | | | | | 91,300 | 200,000 | 93,800 | - | - | - |
| Tricaster System for Live streaming | | | | | | | 36,000 | | | | |
| GRAND TOTAL | | | | | | 91,300 | 1,226,000 | 674,950 | 503,000 | 615,953 | 1,250,744 |

^{a)} Department of Emergency Management will seek grant funding from multiple sources to help absorb costs of mobile Command Center. Grant amounts unknown at this time.

| CATEGORY | LOCATION | DESCRIPTION | CY 2019 | CY 2020 Capital Plan | CY 2021 Capital Plan | CY 2022 Capital Plan | CY 2023 Capital Plan | CY 2024 Capital Plan |
|-----------------------------------|---|---|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | <i>CY 2019 Total Funding Approval</i> | | | | | |
| Economic Development | Trumbull Center | Construction of Boulevard Project | - | | | 4,450,000 | | |
| Economic Development | Long Hill Green | Modernization of Long Hill Green ¹ | 72,000 | | | | | |
| Economic Development | Pequonnock River Trail Extension to Church Hill Road | Design - PRT Trail Head ³ | - | | | 180,000 | | |
| Economic Development | Pequonnock River Trail Extension to Church Hill Road | Construction- PRT Trail Head ³ | - | | | | 1,801,000 | |
| Economic Development | Church Hill Road/Quality Road Intersection Improvements | Construction - Church Hill Road/Quality Road Intersection Improvements (Design/Construction) | - | | 144,587 | 1,277,182 | | |
| Economic Development | Long Hill Green - Connection' | Long Hill Connectivity - Design/Construction Connection from Whitney To Govenors Ridge & Former Marissa's Restaurant ⁵ | <i>62,000</i> | | 415,000 | | | |
| Economic Development | Long Hill Green - Patio/Parking | Long Hill Green - Installation of Patio and Parking within the existing parking area ⁶ | 100,000 | | | | | |
| Economic Development | White Plains Road - Trail Connection | Design -Sidewalk connection from State Parking Lot to Twin brooks Park on WhitePlains road ⁷ | - | | 160,800 | | | |
| Economic Development | White Plains Road - Trail Connection | Construcion - Sidewalk connection from State Parking Lot to Twin brooks Park on WhitePlains road ⁷ | - | | | 804,000 | | |
| Economic Development | Dunellen to Trail | Design - Sidewalk design Dunellen to Trail | - | Placeholder | | | | |
| Economic Development | Dunellen to Trail | Construcion - Sidewalk design Dunellen to Trail | - | | 560,000 | | | |
| Economic Development | Whitney Avenue sidewalk | Whitney Avenue Sidewalk design | - | Placeholder | | | | |
| Economic Development | Whitney Avenue sidewalk | Whitney Avenue Sidewalk construction | - | | 560,000 | | | |
| Economic Development | Bicycle and pedestrian master plan | Bicycle and pedestrian master plan | - | | 100,000 | 100,000 | | |
| Economic Development | Mall planning study | Trumbull Mall Area/Southern Gateway Planning Study | - | 50,000 | | | | |
| Economic Development Total | | | 234,000 | 50,000 | 1,940,387 | 6,811,182 | 1,801,000 | - |
| Engineering | Wildwood Drive | Wildwood Drive Drainage Evaluation | - | | | | | |
| Engineering | Colony Road | Sedimentation Removal Construction | - | | 387,402 | | | |
| Engineering | Chestnut Hill Road (LOTICIP GRANT) ⁴ | Roadway Improvements | 1,319,530 | | | | | |
| Engineering | Strobel Road (LOTICIP GRANT) ⁴ | Roadway Improvements | 6,384,000 | | | | | |
| Engineering | Daniels Farm Road | Drainage Design | 250,000 | | | | | |
| Engineering | Daniels Farm Road | Drainage Improvements | - | | 1,510,000 | | | |
| Engineering | Daniels Farm Road | Roadway Improvements | - | - | | 2,159,990 | | |

| CATEGORY | LOCATION | DESCRIPTION | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 |
|-------------|---|---|---|----------------|-------------------|------------------|------------------|--------------|
| | | | CY 2019 Total Funding Approval | Capital Plan | Capital Plan | Capital Plan | Capital Plan | Capital Plan |
| Engineering | Town Wide Bridges-Spring Hill Rd | Construction/Inspections | 229,157 | - | - | | | |
| Engineering | Town Wide Bridges-Brock Street | Construction (first Phases) | - | 120,000 | | | | |
| Engineering | Town Wide Bridges-Brock Street | Design (second phase) | - | | 90,000 | | | |
| Engineering | Town Wide Bridges-Brock Street | Construction (second phase) | - | | | 300,000 | | |
| Engineering | Town Wide Bridges-Old Town Rd | Design | 139,650 | | - | - | | |
| Engineering | Town Wide Bridges-Old Town Rd | Construction/Inspections | - | | 1,051,737 | - | | |
| Engineering | Town Wide Bridges-Old Mine Rd | Design/Construction/Inspections | - | | | 16,000 | | |
| Engineering | Town Wide Bridges-Old Dike Rd | Design/Construction/Inspections | - | | | 15,000 | | |
| Engineering | Town Wide Bridges-Whitney | Design | - | | 17,000 | | | |
| Engineering | Town Wide Bridges-Whitney | Construction | - | | | | 93,000 | |
| Engineering | Old Town Road | Roadway Improvement/Design/Construction | - | - | 3,500,000 | | | |
| Engineering | Valley View Road | Construction-Culvert | 784,583 | | | | | |
| Engineering | Whitney Ave/Rte. 111 Traffic Light | Construction- Whitney Ave./Rte. 11 Traffic Light | 555,554 | | | | | |
| Engineering | Old Dike Road paving (phase 2) | Old Dike Road paving (phase 2) | | 356,234 | | | | |
| Engineering | Daniels Farm Road culvert | Daniels Farm Road culverts (box culvert & 30in culvert) - design | | 161,000 | | | | |
| Engineering | Hedgehog/Harvest Hill/Daniels Farm Road culverts | Hedgehog/Harvest Hill/Daniels Farm Road culverts - Construction | | | 2,000,000 | | | |
| Engineering | Strobel Road | Strobel Roads sidewalks - design | | 70,000 | | | | |
| Engineering | Strobel Road | Strobel Roads sidewalks - construction | | | 1,500,000 | | | |
| Engineering | Park Street | Park Street Culvert - design | | 91,200 | | | | |
| Engineering | Park Street | Park Street Culvert - construction | | | 750,000 | | | |
| | | | - | | | | | |
| | | Engineering Total | 9,662,474 | 798,434 | 10,806,139 | 2,490,990 | 93,000 | - |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | GRAND TOTAL | 9,896,474 | 848,434 | 12,746,526 | 9,302,172 | 1,894,000 | - |

¹ Main Street Innovation grant award \$475,813, and \$72,000 Town match.

² Underground Utility project requires planning study prior to construction by law.

³ LOTCIP Grant pending for Churchhill Trail Head/Connection (MetroCOG approval pending State contract)

⁴ LOTCIP Grant funds awarded for Strobel Rd. and Chestnut Hill Rd - previously approved amounts:
Strobel Road \$3,745,911 for paving in CIP2015 and Chestnut Hill \$150,000 for design in CIP2016

⁵ Connectivity Grant awarded for \$400,000, Town will match for design and excess construction costs (\$77,000)

⁶ DEEP Section 319 NPS grant awarded for \$100,000

⁷ DEEP Section 319 NPS grant pending review for \$392,000 with Town match 20% 98,000 and design \$75,000 (total cost \$565,000)

| CATEGORY | LOCATION | DESCRIPTION | CY 2019 | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 |
|--------------------|---|--|-------------------------------|----------------|------------------|------------------|------------------|----------------|
| | | | <i>Total Funding Approval</i> | Capital Plan | Capital Plan | Capital Plan | Capital Plan | Capital Plan |
| WPCA | Reservoir Ave and Old Town Pump Station | Pump Station Construction | 3,780,621 | - | | | | |
| WPCA | Whitney Ave Pump Station | Pump Station Upgrades Design | - | 241,000 | | | | |
| WPCA | Whitney Ave Pump Station | Pump Station Upgrades Rehabilitation | - | | | 1,200,000 | | |
| WPCA | Merritt Boulevard Pump Station | Pump Station Design | - | | 150,000 | | | |
| WPCA | Merritt Boulevard Pump Station | Pump Station Rehabilitation | - | | | | 1,200,000 | |
| WPCA | Contract V | Sanitary Sewer Construction | - | | 4,950,000 | | | |
| | | | - | | | | | |
| Total WPCA | | | 3,780,621 | 241,000 | 5,100,000 | 1,200,000 | 1,200,000 | - |
| | | | - | | | | | |
| GOLF | Tashua Knolls | Clubhouse Feasibility/Architect | - | | 58,679 | 80,664 | 79,679 | 250,000 |
| GOLF | Tashua Knolls | Faiway mover - Toro Reelmaster | - | | 58,679 | 58,679 | | |
| GOLF | Tashua Knolls | Toro Greenmaster TriFlex mower | - | | | 21,985 | 55,679 | |
| GOLF | Tashua Knolls | Faiway aerator - Toro ProCore | - | | | | 24,000 | |
| | | | - | | | | | |
| GOLF | Tashua Knolls | Renovation and expansion of Hole 14 and 17 tee complex | - | | | | | |
| | | | - | | | | | |
| Total Golf | | | - | - | 117,358 | 161,328 | 159,358 | 250,000 |
| GRAND TOTAL | | | 3,780,621 | 241,000 | 5,217,358 | 1,361,328 | 1,359,358 | 250,000 |

**CAPITAL IMPROVEMENT PLAN
NARRATIVE
2020-2024**

Summaries are listed below.

STANDARD DEFINITION FOR CAPITAL IMPROVEMENT

- Any acquisition or lease of land
- Purchase of major equipment or vehicles in excess of \$10,000 with life expectancy 5+ years
- Construction of new building facilities with cost in excess of \$10,000
- Major building improvements with a cost in excess of \$10,000
- Major equipment or furnishings in excess of \$10,000

BOARD OF EDUCATION

The Board of Education Facilities Director, Mark Deming, BOE Facilities Manager, prepared the plan. Town of Trumbull Engineer developed quotes for school paving projects.

ROADWAYS

Streets were prioritized based on wear, safety, and usage. Cost includes much needed drainage repairs where indicated due to severe deterioration, asphalt, tack, catch basin, manholes, curbing as needed, grading/compacting, loading and trucking of excess material, in addition to an estimate for shoulder restoration charges that will be incurred. Video Inspection was also included for each year. Estimates based on current pricing for milling/reclaiming and asphalt. An additional line item was added each year to cover the cost of any additional drainage repairs that may be required as a result of video inspection findings.

PUBLIC FACILITIES

Costs are based on professional estimates from a report prepared by Antinozzi Associates, which was revised on September 30, 2010. Projects were reviewed and updated as necessary. Projects will be bid as required by Charter and costs are subject to change.

TRUMBULL LIBRARY

The Library Board received a space assessment from Berger Association. From this report the Board's first priority is to expand parking by approximately 35 spaces.

Construction and modernization of existing Library. The plan is to expand on the design approved in previous years to modernize the existing library and subsequent construction. This is to be done in future years.

Alarm system - \$42,000 in CY 2020. The current fire and security are outdated. Security systems become outdated in time, and new, important features are added every year. Those changes can seriously impact the effectiveness of the system. Additionally, the current alarm is a proprietary system, meaning only a select number of suppliers can service the system. Installing a new non-proprietary fire and security system ensures a safer environment for both residents and staff and provides the Town with more supplier options to maintain and support the system.

Building Maintenance System (BMS) - A BMS is the automatic centralized control of a building's HVAC system. Installing this type of automated centralized control system will result in improved occupant comfort, increased efficiency operation of HVAC system and reduction in energy consumption.

TOWN HALL

Town Hall - Renovations to the existing sanitary plumbing and bathroom - \$260,000 in CY 2021.

The Americans with Disabilities Act (ADA) requires modifications to many of the existing facilities within Town Hall for improved accessibility to individuals with physical limitations.

Many of the Town's service counters in the building do not comply with accessible requirements.
Tax Collector's counters - \$80,000 in CY 2020.

Replacement of HVAC system as the current system is aging and requires replacement - \$325,000 in CY 2020.

Additionally there is the need for the sidewalk replacement to provide continued safe and comfortable usage and to meet ADA accessibility standards. - \$25,000 over three years.

POLICE HEADQUARTERS

HVAC connection to BMS system and upstairs bathroom renovations \$100,000 over 2 years.

SENIOR CENTER

New Senior Center design and community approval efforts - \$950,000 in CY 2020. Subsequent construction is estimated in the following years.

Various improvements to the existing building will be required in the next several years if new construction is not approved:

Replace HVAC System in Multi-Purpose Room- The current system is becoming aged and requires replacement to provide comfortable and efficient operations.

2nd Floor Kitchen renovation - The current 2nd floor kitchen is outdated and does not meet the needs of our residents. The goal is to bring the kitchen up to health and safety standards; and to create a more relaxed comfortable eating experience for our senior community.

Elevator modernization - current elevator modernization is required in order to improve efficiency, reliability and public safety.

ADA ramp and door opener - Curb ramps are a critical element in allowing people with disabilities or our senior citizens to have full and complete access to the public right of way. This new ADA ramp and door opener will allow our residents to safely navigate and access our Sr. Center facilities.

Parking lots paving - The current parking lot shows signs of damage and it does not sufficiently meet the current needs of the staff and residents parking at the Sr. Center

Replace Windows at Social Services - windows are outdated and show evidence of deterioration due to age and weather elements. Replacing these windows with energy-efficient ones can reduce heating and cooling costs.

PUBLIC WORKS YARD

Construction - Town Yard Garage maintenance/replacement/culvert and structural improvements to plow garage- \$625,000 in CY 2020. The purpose of this project is to install a concrete culvert behind the highway garage. This will allow for the expansion of the highway garage and greater truck maneuvering around the existing highway facility.

Siding and stairwell replacement at building #6 - \$162,000 in CY 2021. The siding and stairs have major structural issues and advanced rot damage that has spread throughout the building's exterior that requires replacement. The stairwell does not conform to current fire and building codes and needs replacement in order to mitigate liability risks.

HELEN PLUMB BUILDING

HVAC system replacement- \$80,000 in CY 2020. Current HVAC system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations. Replacement to be done in partnership with UI.

Window and siding replacement – \$ 90,000 in CY 2021. Windows are outdated and show evidence of deterioration due to age and weather elements. Replacing these windows with energy-efficient ones can reduce heating and cooling costs. Some exterior areas of the building structural issues and advanced rot damage requires replacement.

Roof replacement - \$60,000 in CY 2022. The building's roof shows signs of damage due to old age and weather. Replacement is needed in order to prevent any possible damage to property.

EMS BUILDING

Site Construction reconfiguration and expansion design - \$50,000 in CY 2020. The proposed EMS facility expansion will be designed and operated so as to maintain and promote public health, safety, and general welfare. EMS provides emergency services to those in need. In recent years, the Town has recognized the need for additional and modernized space in order to serve the needs of the Town. Subsequent construction is estimated in the following years.

RTU Rooftop Unit Replacement - \$54,000 in CY 2022. Replacement of 3 packaged 3-ton units. Current HVAC system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations. Cost is based on Antinozzi Associates building inspection report.

TRANSFER STATION

Concrete Slab repair - \$45,000 in CY 2020. The concrete slab and subfloor on the commercial side of the Transfer Station has small cracks, hairline fractures moderate in nature. The structure is structurally sound but needs repairs to avoid further damage and avoid full replacement costs.

Generator - \$155,500 in CY 2020. This facility currently does not have a generator or sufficient backup power that would be necessary to keep the facility running in the event of a total power failure. The requested funds will be used to install a unit at the Transfer Station in order to avoid shut downs of this facility's operations.

Roof replacement - \$140,000 in CY 2021. The building's roof shows signs of damage due to old age and weather. Replacement is needed in order to prevent any possible damage to property.

New pre-fabricated salt shed - \$30,000 in CY 2020. Currently this facility does not have a salt shed to store material used to treat driveways/roads/parking at the transfer station after snow storms in order maintain a safe environment for residents and employees. The new salt shed will maximize the life of salt stockpiles by offering a durable, environmentally conscious, cost effective storage solution.

The above estimated costs will be funded by TEAM, Trumbull will pay 60% and Easton and Monroe will pay 40%.

TOWN WIDE

Town wide sidewalks - \$80,000 in CY 2020. Sidewalk surface conditions are making routes inaccessible, or dangerous to pedestrians. Sidewalk replacement and repairs are necessary and will cycle through the community, focusing on different neighborhoods over a number of years as repairs become necessary.

PARK IMPROVEMENTS

Indian Ledge New Artificial Field and lighting - \$1,500,000 in CY 2020.

Adding additional Synthetic Turf Athletic Fields (SAT) to the Town's inventory is a stated goal of the Parks and Recreation Department and THS Athletic Department and is supported by the community athletic organizations representing thousands of Trumbull youth athletes. SAT fields offer several advantages over traditional natural turf fields. The SAT virtually eliminates cancellation of games and practice due to weather. The quality playing surface is not compromised by overuse allowing for a much greater intensity of scheduling particularly when compared to a varsity facility in which insuring the quality of a grass surface leads to significant restrictions in scheduling. As an offset to the higher construction costs, SAT fields require a minimum of maintenance reducing labor, materials costs and emission of greenhouse gases associated with small engine maintenance equipment such as lawn mowers.

Irrigations - \$25,000 per year in CY 2021 and 2022.

Rest Room Upgrades -\$56,000 each year for two years.

The Parks and Recreation Department started in 2017 a four-year program designed to upgrade the interior of the public restrooms (2 per year) within the park system. Replacement of plumbing fixtures with automatic flush meters, exhaust fans and lights on motions sensors and timers will improve sanitary conditions and odor control while reducing utility costs and making the restrooms more welcoming for guests. Project pricing includes roof replacement. Estimate of cost is provided by Parks Department based on scope of work.

Various Locations - Wooden guardrails and installation - \$100,000 over next 2 years. The Town Parks system has various locations that have existing guard rails or other vehicle deterrents such as pipes and chains that are well past their useful life and need to be replaced.

Indian Ledge Sprinkler Park replacement - \$200,000 in CY 2020. Indian Ledge Sprinkler has a number of broken lines within its concrete pads. In order to make those repairs the entire area must be disassembled.

Kaatz Pond - Dredging construction - \$286,000 in CY 2021. Kaatz Pond Park is the site of the Old Ice House in Town. As with most of our ponds and waterways within the Parks System, this has been filled in significantly with storm water runoff creating large deltas of sand and debris.

Twin Brooks Dredging construction - \$545,700. Design will be done in CY 2020 and construction in CY 2021. As with most of our ponds and waterways within the Parks System, this has been filled in significantly with storm water runoff creating large deltas of sand and debris.

Bills Property Design & Development- \$250,000 in CY 2021. We are seeking design work to establish the creation of a new driveway that would enable two way traffic through the Huntington Road entrance to the Main Fields as well as Parking above the main Field and secondary egress through Round Hill Road.

Abraham Nichols Barn - \$60,000 in CY 2021. Due to the age of the building, roof, windows and doors need replacement.

Veteran's Center design is being requested at a cost of \$200,000 and construction funding is estimated at \$2,000,000 in a subsequent year. Inclusion in the capital plan will enable federal, state, and private grants to be pursued to fund the project

Paving and Drainage at Indian Ledge, Phase 1 - \$865,000 in CY 2020. Phases 2 through 4 will be done in subsequent years.

Paving and Drainage at various parks - \$500,000 at Twin Brooks in CY 2020. Unity Park, Twin Brooks and Old Mine/Counseling Center to be done over the subsequent 2 years.

The asphalt paved parking lots and roadways within Twin Brooks Park are well over thirty years old and are in need of replacement. The area is prone to flooding and flood damage has scoured away all of the original paving on the lower parking areas requiring costly annual patching with

reclaimed millings to maintain a functioning parking lot. Uneven and broken pavement presents potential for trip and fall incidents in one of the town's most heavily utilized facilities.

Prior to repaving the lots, a full review of the drainage components will be conducted with appropriate repairs and renovations to the storm water drainage systems which are no longer functioning effectively. The underground culverts are in a significant state of decay and the storm drain head walls are deteriorating and no longer properly direct water flow resulting in a negative impact on the adjacent natural resources. This is a necessary infrastructure maintenance project to improve the asset, and to ensure proper storm water management and public safety impacting park users and neighboring residents.

Tashua Pool – Design \$165,000 in CY 2020. Upgrades and renovations in the following year. Tashua Knolls pool has been on the five-year plan for a variety of repairs and upgrades over the last few years. This past spring the pool exhibited more significant problems requiring emergency repairs. In addition, the liner is over 17 years old and in need of replacement as are the remaining deck slabs which have settled, both of which have been scheduled for replacement in the 5-year plan.

Aquatics Facility design and surveys - \$950,000 in CY 2020 is being requested to assess potential locations for a facility and develop a conceptual design, and then construction funding is estimated for the following years.

Tennis/Pickleball Courts at Tashua and Unity – \$750,000 in CY 2020. Courts are reaching poor condition and will require replacement to assure safe playing conditions. Replacement of Tennis Courts at Tashua Courts 1 through 4 will be done in CY 2020. The remainder of the courts at Tashua, Island Brook Unity and Nothnagle will be done over the subsequent 3 years.

FLEET & EQUIPMENT

Highway and Parks equipment replacement – Estimated cost is \$1,070,000 in CY 2020.

The Highway Department replaces equipment based on usage and condition. The vehicle may have rust and erosion due to road or work conditions that require replacement sooner than the recommended useful life. The general rule is to replace this equipment every 15 to 20 years.

EMS Ambulances/Sprinters. Replacement of sprinter \$120,000 in CY 2020. Ambulance-Box replacement of 1 each of the subsequent years.

Emergency Management Command Center - \$800,000 in future years. This is a much needed asset that will be used to replace a near 20 years old towable trailer. This will make for easier deployment and have upgraded technologies that will carry Trumbull's Emergency Services well into the future. Inclusion in the capital plan will enable federal, state, and private grants to be pursued to fund the project

Trumbull Community Television – Requesting a replacement of a Tricaster System for live streaming at a cost of \$36,000 in CY 2020. This will be used to live stream town boards/commissions and other community meetings.

ECONOMIC DEVELOPMENT

The continuation of Rails to Trails project funding is coordinated with the State Department of Transportation and Connecticut Metropolitan Council of Governments (formerly Greater Bridgeport Regional Planning). LOTCIP grant for trail head/connection for Church Hill.

Trumbull Center – Construction of Boulevard Project \$4,450,000 in CY 2022.

Long Hill Connectivity – Whitney to Governors Ridge and Former Marissa’s restaurant. Grant awarded for \$415,000.

White Plains Road Trail connection from state parking lot to Twin Brooks Park on White Plains Road/ DEEP grant with town match for design \$160,800. Modifications and signage to the commuter lot to create a dedicated trail head. Installation of sidewalks to the Twin Brooks area to connect the trail in both directions and footbridge installation

Dunellen to trail and Whitney Avenue sidewalk design and construction. Design of \$100,000 in CY 2020 and construction in the subsequent years.

Bicycle and Pedestrian Master Plan to be designed and constructed in subsequent years.

Mall planning Study-Trumbull Mall/area/Southern Gateway Planning Study. Design of \$50,000 in CY 2020.

ENGINEERING

Colony Road – Sedimentation removal construction \$387,402 in CY 2021.

Daniels Farm Road-Drainage design, drainage improvements and roadway improvements \$3,669,990 over the next several years.

Town Wide Bridges- These project are being established to design the repairs identified by structure inspection of various bridges. Design in the amount of \$120,000 will be performed in CY 2020. Construction will be done over the next several years.

Old Town Road – Roadway improvements/Design and construction projected to be done in CY 2021. Inclusion in the capital plan will enable federal, state, and private grants to be pursued to fund the project.

Paving, culverts and sidewalks design and construction to various town roads. Design cost of 678,434 included in CY 2020.

ENTERPRISE

WPCA projects are provided by Town Engineer for various town wide repairs.

Whitney Avenue and Merritt Boulevard Pump Stations –The WPCA initiated a Town Wide pump station analysis and as a result, the Whitney Avenue and Merritt Boulevard design and replacement are to be done over the next several years. Design in the amount of \$241,000 is being requested in CY 2020.

WPCA Contract V sanitary sewer design and construction - \$4,950,000 in CY 2021.

Golf Course

Golf Clubhouse – Feasibility study and architect renderings will be done over the next several years.

Various Golf Course related equipment to be purchased over the next several years.

CIP 2020 - 2024

Public Facilities

Library

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Trumbull Library

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Alarm system - The current fire and security are outdated. Security systems become outdated in time, and new, important features are added every year. Those changes can seriously impact the effectiveness of the system. Additionally, the current alarm is a proprietary system, meaning only a select number of suppliers can service the system. Installing a new non-proprietary fire and security system ensures a safer environment for both residents and staff and provides the Town with more supplier options to maintain and support the system.

Parking lot expansion - as the population of the Town rapidly grows the current parking lot is inadequate in size to accommodate residents and employees.

Building Maintenance System (BMS) - A BMS is the automatic centralized control of a building's HVAC system. Installing this type of automated centralized control system will result in improved occupant comfort, increased efficiency operation of HVAC system and reduction in energy consumption.

What existing facilities or conditions will be affected by the project? How will this project improve these?

All the proposed plans will affect the main Library. The projects will increase public safety and create a more energy efficient building.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2020 - 2024 construction

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|--|-----------------------|-----------|-----------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Construction and library modernization Replace security and fire alarm system (non-proprietary system) | 42,000 | 3,000,000 | 3,000,000 | | | 6,000,000 |
| Parking lot expansion | | 110,000 | | | | 110,000 |
| Replace BMS (Building Management System) | | | | 30,000 | | 30,000 |
| | | | | | | - |

Pub Fac # 1

Pub Fac # 2

Pub Fac # 3

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

Library Alarm



Public Facilities # 1

L5 106051

L6 106055

1087 FEDERAL ROAD • BROOKFIELD, CONNECTICUT 06804

Tel: 203-775-8788 • www.UnitedAlarm.com • Fax: 203-775-8222

Sent Via E-Mail: awhite@trumbull-ct.org

Allen White
Town of Trumbull
Trumbull, CT

June 28, 2019

RE: Proposal for Replacement of Fire Alarm Systems- Town Hall, Library, Senior Center

Dear Allen,

United Alarm Services is committed to providing quality installations with a technical staff that is fully licensed and insured. In addition, we provide a 24 hour service and state of the art monitoring from our company owned Central Station facility in Brookfield, Connecticut.

On the following pages you will find a breakdown of the devices and costs for this proposed work. Please call me should you have any additional questions at 203 775-8788. I look forward to working with you on these projects.

Thank you,

Jimmy Corbett

Allen White
Town of Trumbull
Trumbull, CT
June 28, 2019

RE: Proposal for Replacement of Fire Alarm Systems- Town Hall, Library, Senior Center
Page 2

Upon approval, United Alarm will provide the following service and equipment:

Replacement of the Current Proprietary Fire Alarm with Addressable NON-PRORIETARY Master Fire Control Panel

Replace All Addressable Devices Within the System

Includes Labor, Programming, Devices Listed and Training

Total Installation Cost: \$35,000 per Location

added 20% for incidentals

Terms: A 50% Deposit is due prior to commencement of the work with the balance due upon completion of the scheduled work. If the project is completed in stages, progress payments would apply. Monitoring fees will be billed annually, or semi-annually, in advance plus applicable sales tax.

ACCEPTANCE OF PROPOSAL- The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. This quote is subject to a review of the insurance requirements of the buyer and that any increased cost to insure for the quoted project may be added to the price for services/materials quoted by United Alarm.

Jimmy Corbett- United Alarm Representative Subscriber Date

Peter Engstrom
19 Olmstead Hill Road
Wilton, CT 06897
RE: Proposal for Alarm System Installation
June 25, 2019
Page 3

Home Automation Available for above listed system with device options below to be controlled via ONE APP on your Smartphone Connected through the United Alarm installed system.

Z-WAVE Options with Z-Wave Module Activated (Adds \$5 to monitoring for any or all):

Polished Brass Z-Wave Lockset with Integration to System +\$245.00 each #__ Initial__
(Other finishes are available)

Integrated Digital Thermostat for Both Heating and Cooling (Installed by HVAC Contractor) +\$189.00 each #__ Initial__

Z-Wave Lamp Module (Controls any plug in device) + \$95.00 each #__ Initial__

Z-Wave Dimmer Switch (Controls any switch group) + \$76.00 each #__ Initial__

*****See Other Z-Wave Options Available at- z-wave.com*

Pub. Fac. #1

Terms:

A 50% Deposit is due prior to commencement of the work with the balance due upon completion of the scheduled work. If the project is completed in stages, progress payments would apply. Monitoring fees will be billed annually, or semi-annually, in advance plus applicable sales tax.

ACCEPTANCE OF PROPOSAL— The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. This quote is subject to a review of the insurance requirements of the buyer and that any increased cost to insure for the quoted project may be added to the price for services/materials quoted by United Alarm.

Steve Kolitz- United Alarm Representative

Subscriber

Date

Library Parking Lot

Pub Fac # 2

TThe
LTrumbull Library
System

SUEAN J. HORTON
Director

Received
8/13/16

TO: Maria T. Pires, Director of Finance
FROM: Arthur A. Kukla, Treasurer, Library Board of Trustees
RE: Five-Year Capital Plan
DATE: June 13, 2016

Attached is information requesting the construction of additional parking for the Trumbull Library located on Quality Street. This project was previously requested in 2011. Since then our lack of adequate parking for our patrons and activities has become more serious.

If you have any questions or need additional information, please contact me at 203 375-5117 or Jeannine Stauder at 203 268-3001.

Justifying the need for additional parking spaces:

When the library was built in 1974 parking was barely adequate. Since 1974, a new children's wing has been added, community room usage has increased so that there is now a shortage of available times for individuals wanting to use the room. As the population of the town has grown the library has constantly reorganized to meet the needs of the Citizens of Trumbull. A technology center with up to date computers is available, a teen area to recognize their needs, study areas, reading areas and space for the increase in printed material from technology to the best sellers. The interior of the library is constantly being reorganized to serve the changing needs of our patrons. Recently the library hosted focus groups to discuss the future of the library system. The major complaint of those attending was the severe lack of parking. Patrons have to park on street between the library and the town hall, in the town hall parking area and across the street in the Stop & Shop parking area. In 2011, the Board worked with the Public Works Dept. and other interested groups to develop a plan for an additional 35 spaces. The project was put out to bid in May 2011. Nine proposals were received. A decision by the Administration was made to reject the proposal. Since then the need for additional parking has become more acute.

Once again the Library Board is requesting funds for additional parking. There is no change in the 2011 plans. If approved the additional parking should become available during the second half of 2016.

Pub Fac # 2

**TOWN OF TOWN TRUMBULL
BID RESULTS**

RFP# 5893 PAVING OF LIBRARY PARKING LOT DUE: 05/24/11

| COMPANY | TOTAL PROPOSE |
|--------------------------|---------------|
| D&P Construction | 196,500.00 |
| G. PIC | 113,760.00 |
| Dearing Construction | 108,700.00 |
| Cherry Hill Construction | 125,584.00 |
| R. S. Sita & Septic | 88,825.00 |
| Guerra Construction | 119,000.00 |
| B&W Paving | 108,204.00 |
| Reliable Excavating | 98,914.25 |
| Dalling Construction | 134,850.00 |
| | |

R. Chimini, Purchasing Agent

Library Building Maintenance System



1180 STRATFORD ROAD
STRATFORD, CT 06615
203.334.3419
203.333.3934 FAX
WWW.MAINHVAC.COM

Pub Fac. # 3

July 10, 2019

Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Attn: Allen White

Re: Library control upgrade

Pursuant to our conversation regarding upgrade of the control system located at the **Library**, We are pleased to submit the following proposal and scope of work:

- **Provide engineering, web server, graphics, programming, wiring and wiring diagrams for the site.**
- **Provide and install controls for RTU 1, AH1, and Boiler**
- **Start and test all units.**

The price for the above work is: \$30,000.00

GUARANTEE

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delay beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance. If there is any default on payments, the signor agrees to pay all collection fees, court costs and lawyer fees and 1-1/2% per month interest, on the unpaid balance, not to exceed 18%. Such default will result in cancellation of all Warranties and Guaranteed work on any and all equipment.
Note: We may withdraw this proposal if not accepted within 30 days.

In hopes that you find this proposal acceptable, please sign below and return back via email jleslie@mainhvac.com or fax 203-683-1429 so that we may order the necessary items and schedule your work. If you have any questions, please feel free to contact me at 203-334-3419, extension 1416. I look forward to hearing from you.

Jim Leslie

7-10-19

Jim Leslie
Service Manager

Date

Accepted by (Customer)

Date

**CIP 2020 - 2024
Public Facilities**

TOWN HALL

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Town Hall

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Sidewalk replacement - the existing sidewalk is in poor condition and poses a safety risk for pedestrians. Townwide sidewalks require ongoing rehabilitation to provide for continued safe and comfortable usage and to meet ADA accessibility standards. Repairs are needed in order to mitigate liability risks to the Town. There is approximately 3,600 square feet of lifted and or cracked sidewalk around the Town Hall campus. Current pricing on the Towns On Call Bid is \$16.00 per square foot for a total of \$57,600

Town Collector Security & ADA compliant service counters - the service counters do not comply with accessible requirements. The space will have safety and accessibility issues addressed to comply with ADA Compliance requirements and increased security.

Replace HVAC System (schematic design and replacement) - The current system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations.

Restroom Renovations (ADA compliant) - The Americans with Disabilities Act (ADA) requires modifications to the existing restroom facilities within Town Hall for improved accessibility to individuals with physical limitations.

Floor Tiling - tiles are showing signs of wear and tear in several areas of the building. Replacement is needed in order to create a safe environment for employees and public as well as maintain a professional appearance in our public buildings.

Will this project necessitate staffing increases?
No

What is the general plan and timeline for completion?
Estimated 2020 - 2025 construction

Are there any outside funding sources, e.g., grants?
No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|--|-----------------------|---------|---------|---------|---------|---------|---|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| TH sidewalk replacement | 25,000 | 25,000 | 25,000 | | | 75,000 | Pub Fac #4 based on prior estimate |
| Tax collector security counters | 80,000 | | | | | 80,000 | |
| Consulting services for plans & specs to replace HVAC system | 25,000 | | | | | 25,000 | Pub Fac #6 |
| Replace HVAC system | 300,000 | | | | | 300,000 | Pub Fac #6 |
| Restroom renovations ADA compliant | 260,000 | | | | | 260,000 | Pub Fac #7 |
| Finishes - Floor Tiling | - | | | | 44,000 | 44,000 | Pub Fac #8 |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

TH Sidewalks

Town Hall Sidewalk replacement estimates

Costs are estimated based on current bid for sidewalks and curing. The bid is for Board of Ed but the prices were used for estimation purposes. Costs were calculated as follows:

Estimated Linear footage x price per linear foot per bid# 6241.

Bid docs are attached.



Trumbull Town Hall
5866 Main Street
Trumbull, Connecticut 06611

Office of the Purchasing Agent
KEVIN J BOVA
Office 203 452 5042
Fax 203 452 5083

kbova@trumbull-ct.gov

June 1, 2017

Pub Fac # 4
TH Sidewalks bid
pricing

D & P CONSTRUCTION INC
29 ESSEX LANE
Trumbull CT, 06611

Attention: Livio Paniccia V.P.

Subject: Notice of AWARD

**RFP 6241 REMOVAL AND REPLACEMENT OF SIDEWALK AND CURBS
ON CALL UNIT PRICING**

The Town of Trumbull and the Board of Education has considered the Bid submitted by D & P CONSTRUCTION INC For the subject Services in response to its Advertisement for Bid 6241.

You are hereby notified that your Bid 6241 has been accepted as follows:

The Town of Trumbull and the Trumbull Board of Education Selects D & P CONSTRUCTION INC

as **ONE** of the Contractors for scope of the work described in BID 6241. The BOE and or the TOWN will select on an as needed bases. The bases of the selection will be lowest from the proposal page from the pricing structure as it pertains to each Job.

Per your Bid 6241 documentation, you may proceed or may be called upon from the Town of Trumbull or the BOE as needed for the next 3 years. This award letter is good for 3 years and valid until June 30 2021. Per your pricing in Bid 6241

Please acknowledge your receipt of this correspondence (via fax or email). You may contact BOE facilities director Mark Deming or myself.

Thank you for your interest in serving the Town of Trumbull

Kevin J Bova
Purchasing Agent

ACCEPTANCE OF NOTICE

Receipt of the above **NOTICE OF AWARD IS** hereby acknowledged by

Name (Print) Livio R. Paniccia This the

1st day of June 2017

By (signature) [Signature]

Title VP

**TOWN OF TOWN TRUMBULL
BID RESULTS**

Pub Fac # 5
TH Sidewalks bid
pricing

| RESULTS for Bid 6241- -REMOVAL AND REPLACEMENT OF SIDEWALK AND CURBS ON CALL UNIT PRICING | | | | | | | | | | | |
|---|--|--|--|--|--|---|--|--|-------------------------|--------|----------|
| Request for Proposal-REMOVAL AND REPLACEMENT OF SIDEWALK AND CURBS | | | | | | | | | | | |
| RFP# 6241-DUE: May 24 ,2017 @ 2pm Bids Received | | | | | | | | | | | |
| PRICES → COMPANY↓ | 1) Concrete curb only Per Linear ft | 2. Concrete 5' sidewalks with monolithic - per sq ft | 3. Concrete 6' sidewalks with monolithic per sq ft | 4. Concrete sidewalk replace no curb per sq ft | 5) Concrete ADA apron with tactile tiles per sq ft | 6) Concrete ADA ramps for building egress per sq ft | 7) Concrete Driveway Apron with flush curb per sq ft | 8. Asphalt binder coat patching per sq ft | 9) Annual Escalation | | |
| RELIABLE EXCAVATING CO., INC | \$32.00 | \$16.00 | \$16.00 | \$12.00 | \$30.00 | \$30.00 | \$16.00 | \$85.00 | 4.0% | 100.00 | \$237.00 |
| CERILLI CONSTRUCTION | \$21.00 | \$14.75 | \$16.00 | \$9.25 | \$13.75 | \$15.75 | \$9.50 | \$6.50 | 2.0% | 100.00 | \$106.50 |
| PARK CITY CONSTRUCTION | \$13.50 | \$15.00 | \$16.00 | \$7.75 | \$24.00 | \$14.00 | \$12.50 | \$2.00 | 3.0% | 100.00 | \$104.75 |
| WILLIAM M LAYDON CONSTRUCTION | \$55.00 | \$28.00 | \$28.00 | \$15.00 | \$35.00 | \$35.00 | \$28.00 | \$15.00 | 3.0% | 100.00 | \$239.00 |
| LAYDON INDUSTRIES | \$38.00 | \$13.50 | \$13.50 | \$10.00 | \$40.00 | \$55.14 | \$20.00 | \$10.00 | 3.0% | 100.00 | \$200.14 |
| VAZ QUALITY WORKS LLC | \$22.00 | \$12.00 | \$13.00 | \$8.00 | \$15.00 | \$12.00 | \$12.00 | \$6.00 | 2.0% | 100.00 | \$100.00 |
| COLONNA CONCRETE & ASPHALT PAVING LLC | \$32.00 | \$23.50 | \$26.50 | \$15.50 | \$18.50 | \$25.50 | \$23.50 | \$12.50 | 4.5% | 100.00 | \$177.50 |
| M. RONDANO ,INC. | \$35.00 | \$17.80 | \$17.80 | \$12.30 | \$27.00 | \$20.00 | \$19.00 | \$4.00 | 5.0% | 100.00 | \$152.90 |
| STAR CONSTRUCTION CORP. | \$45.00 | \$18.00 | \$20.00 | \$11.00 | \$25.00 | \$25.00 | \$16.00 | \$11.00 | 10.0% | 100.00 | \$171.00 |
| G.PIC & SONS CONSTRUCTION CO. | \$30.00 | \$12.50 | \$13.00 | \$10.00 | \$15.00 | \$15.00 | \$15.00 | \$3.00 | 5.0% | 100.00 | \$113.50 |
| D&P CONSTRUCTION INC. | \$27.00 | \$9.44 | \$9.44 | \$7.44 | \$14.75 | \$14.75 | \$11.00 | \$3.45 | 8.0% | 100.00 | \$97.27 |
| RESOURCE SERVICE LLC | \$32.00 | \$15.00 | \$15.00 | \$10.00 | \$25.00 | \$22.00 | \$14.00 | \$6.00 | 10.0% | 100.00 | \$139.00 |

Kevin J Bova Purchasing Agent
May 24, 2017 @ 2PM

TH-HVAC

System



1180 STRATFORD ROAD
STRATFORD, CT 06615
203.334.3419
203.333.3934 FAX
WWW.MAINHVAC.COM

Pub. Fac. # 6

Trumbull Town Hall

Current System

6 - Trane RTU's 1 thru 6

1 - Split System AHU 7

Unity wireless BMS

55 - Volume dampers with two position actuators

11 - Bypass dampers

BMS cycles RTU's and Split System for heating and cooling. Local thermostats control volume dampers open for cooling closed for heat. Volume dampers are not currently modulating they are open or closed. Bypass dampers are controlled to maintain static. RTU 2 serving the Court room is constant volume.

Recommendations

1

- Replace Unity wireless BMS with wired Honeywell WEBS Tridium based BMS all systems
- Replace 55 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 11 bypass dampers and replace actuators.
- Perform full maintenance on all RTU's and Split System to verify proper operation.
- Perform Air Balancing on all building systems and diffusers. **Budget \$238,000**

Added estimated \$25,000 for consulting services to get plans and schematic design for bid request.

- Replace Unity wireless BMS with wired Honeywell WEBS Tridium based BMS all systems.
- Replace actuators with modulating on 55 volume dampers and make repairs as necessary.
- Replace actuators on 11 Bypass dampers and make repairs.
- Perform full maintenance on all RTU's and Split System to verify proper operation.
- Perform Air Balancing on all building systems and diffusers.

Budget \$204,000

3

- Provide and install Honeywell WEBS Tridium based BMS to accommodate phasing of equipment change over from current Unity wireless BMS to wired Tridium BMS.

Budget \$18,000

4

- Replace Unity wireless BMS for RTU 6 system with wired Tridium BMS.
- Replace 14 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 6 to verify proper operation.
- Perform Air balancing on RTU 6 and related diffusers. **Budget \$50,000**

5

- Replace Unity wireless BMS for RTU 5 system with wired Tridium BMS.
- Replace 8 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 5 to verify proper operation.
- Perform Air balancing on RTU 5 and related diffusers. **Budget \$32,800**

6

- Replace Unity wireless BMS for RTU 4 system with wired Tridium BMS.
- Replace 13 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 4 to verify proper operation.
- Perform Air balancing on RTU 4 and related diffusers.

Budget \$43,500

7

- Replace Unity wireless BMS for RTU 3 system with wired Tridium BMS.
- Replace 8 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 3 to verify proper operation.
- Perform Air balancing on RTU 3 and related diffusers. **Budget \$33,000**

8

- Replace Unity wireless BMS for RTU 1 system with wired Tridium BMS.
- Replace 5 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 1 to verify proper operation.
- Perform Air balancing on RTU 1 and related diffusers. **Budget \$26,000**

9

- Replace Unity wireless BMS for AHU 7 system with wired Tridium BMS.
- Replace 7 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair Bypass damper and replace actuator.
- Perform full maintenance on AHU 7 to verify proper operation.
- Perform Air balancing on AHU 7 and related diffusers. **Budget \$30,000**

10

- Replace Unity wireless BMS for RTU 6 system with wired Tridium BMS.
- Repair 14 volume dampers and replace actuators with modulating.
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 6 to verify proper operation.
- Perform Air balancing on RTU 6 and related diffusers.

Budget \$38,000

11

- Replace Unity wireless BMS for RTU 5 system with wired Tridium BMS.
- Repair 8 volume dampers and replace actuators with modulating.
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 5 to verify proper operation.
- Perform Air balancing on RTU 5 and related diffusers. **Budget \$29,000**

12

- Replace Unity wireless BMS for RTU 4 system with wired Tridium BMS. •
Repair 13 volume dampers and replace actuators with modulating
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 4 to verify proper operation.
- Perform Air balancing on RTU 4 and related diffusers.
Budget \$39,500

13

- Replace Unity wireless BMS for RTU 3 system with wired Tridium BMS.
- Repair 8 volume dampers and replace actuators with modulating •
Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 3 to verify proper operation.
- Perform Air balancing on RTU 3 and related diffusers. **Budget \$29,500**

14

- Replace Unity wireless BMS for RTU 1 system with wired Tridium BMS.
- Repair 5 volume dampers and replace actuators with modulating • Repair 2
Bypass dampers and replace actuators.
- Perform full maintenance on RTU 1 to verify proper operation.
- Perform Air balancing on RTU 1 and related diffusers.
Budget \$23,500

15

- Replace Unity wireless BMS for AHU 7 system with wired Tridium BMS.
- Repair 7 volume dampers and replace actuators with modulating.
- Repair 1 Bypass damper and replace actuator.
- Perform full maintenance on AHU 7 to verify proper operation.
- Perform Air balancing on AHU 7 and related diffusers.
Budget \$25,500

16

Pub. Fac. # 6

- Replace Unity wireless BMS for RTU 2 with wired Tridium BMS.
- Perform full maintenance on RTU 2 to verify proper operation.
- Perform Air balancing on RTU 2 and related diffusers.

Budget \$8,500

Summary

The bulk of the calls for the Town Hall are related to the Unity BMS. Communication issues seem to be the most common occurrence. Our recommendation is to upgrade with Honeywell WEBS Tridium based web server based BMS.

ADA Restroom Renovations (2)

December 6, 2019

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

Dear Mr. White:

Per your request, we are presenting this proposal for architectural / engineering fees as well as construction budgets for the following projects:

Helen Plumb Building:

Window Replacements
Construction Estimate: \$75,000 A/E Fee: \$14,000

Roof Replacement
Construction Estimate: \$45,000 A/E Fee: \$12,000

Front Door Replacement
Construction Estimate: \$5,000 A/E Fee: \$0

Transfer Station Building

New Emergency Generator
Construction Estimate: \$140,000 A/E Fee: \$14,000

Concrete Floor Slab Repairs
Construction Estimate: \$26,000 A/E Fee: \$10,000

Roof Replacement
Construction Estimate: \$120,000 A/E Fee: \$18,000

New Pre-Fabricated Salt Shed
Construction Estimate: \$30,000 A/E Fee: \$0

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms
Construction Estimate: \$80,000 A/E Fee: \$15,000

Handicap accessible improvements to (2) toilet rooms
Construction Estimate: \$140,000 A/E Fee: \$24,000

Council Chambers – Paint walls & Refinish wood
Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk
Construction Estimate: \$3,000 A/E Fee: \$0

Total = \$ 259,000



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604
t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851
t 203.956.5460

www.antinozzi.com

TH- FLOOR TILING

| CSI / Spec # | CSI Format Names | Report Item Names | Previous Report # / New Item | Complete | Quantity | Totals By Division | Suggested 5 Year Capital Implementation Plan | | | | | Comments / Notes |
|---|---------------------------------------|----------------------------|------------------------------|----------|----------|--------------------|--|---------|----------|-----------|----------|--|
| | | | | | | | 2010 - 11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | |
| DIVISION 6 - Wood and Plastics | | | 0 | 0 | | | | | | | | |
| 01 | 08130 Heavy Timber Construction | Wood Beams | 4.04 | | | | | | | | | |
| 0 | 08402 Interior Architectural Woodwork | Wall Finishes (Int Trim) | 5.02 | No | 500 LF? | | | | | | \$1,000 | |
| 0 | 08201 Exterior Finish Carpentry | | 0 | New Item | | | | | | | | |
| Division 6 - TOTALS | | | | | | \$1,000 | | | | | | |
| DIVISION 7 - Thermal & Moisture Protection | | | 0 | | | | | | | | | |
| 0 | 07511 Built-Up Asphalt Roof | Roofing | 2.01 | No | 5500 SF | | \$75,000 | | | | | Replacement of existing roof system recommended. |
| 0 | 07313 Slate Shingles | | 0 | No | 5304 SF | | \$1,000 | | | | | Cost allocated for general maintenance only |
| | 07411 Metal Roof Panels | | 0 | New Item | | | | | | | | |
| 0 | 07480 Siding Systems | Exterior Walls | 3.01 | | | | | | | | | |
| 0 | 07920 Joint Sealants | | 0 | New Item | Yes | 30 LF | | | | | | Expansion joint sealing was completed |
| 0 | 07311 Asphalt Shingles | | 0 | New Item | | | | | | | | |
| | 07811 Sprayed Fire Resistive Material | | 0 | New Item | | | | | | | | |
| | 07321 Clay Roof Tiles | | 0 | New Item | | | | | | | | |
| 0 | 0 | | 0 | 0 | | | | | | | | |
| Division 7 - TOTALS | | | | | | \$76,000 | | | | | | |
| DIVISION 8 - Doors & Windows | | | 0 | 0 | | | | | | | | |
| 0 | 08110 Steel Doors & Frames | Exterior Doors | 3.02 | | | | | | | | | |
| 0 | 08550 Wood Windows | Windows | 3.03 | No | 2000 SF | | | | | \$150,000 | | All existing single pane wood windows to be replaced |
| | 08520 Aluminum Windows | | 0 | 3.03 | | | | | | | | |
| | 08710 Door Hardware | Hardware | 5.08 | No | 7 | | \$4,500 | | | | | Keying system shall be evaluated in connection with the Security evaluation / hardware upgrades required. |
| 0 | 08211 Flush Wood Doors | Interior Doors | 5.05 | No | 13 | | \$14,000 | | | | | |
| | 08322 Detention Doors & Frames | Reconstruction | 12.02 | | | | | | | | | |
| 0 | 08381 Sectional Overhead Doors | Garage Doors | 3.02 | | | | | | | | | |
| | 08411 Aluminum Framed Entrances | | 0 | New Item | No | 4 sys. | | | \$80,000 | | | Replace four entrance door assemblies with aluminum framed systems, including the interior door system at each location. |
| Division 8 - TOTALS | | | | | | \$248,500 | | | | | | |
| DIVISION 9 - Finishes | | | 0 | 0 | | | | | | | | |
| 0 | 09051 Resilient Floor Tile | Floor Finishes | 5.01 | 15% | 4430 SF | | | | | | \$44,000 | 13 separate areas. Carpet encasement existing tile in many areas / Testing may be required |
| 0 | 09400 Terrazzo Flooring | | 0 | 0 | | | | | | | | |
| 0 | 09680 Carpet | | 0 | 5.01 | 235 SF | | \$1,600 | | | | | Carpet Replacements |
| 0 | 08220 Portland Cement Plaster | Wall Finishes (on Masonry) | 5.02 | No | 4 SF | | | | \$300 | | | Repair plaster on existing wall |
| 0 | 09910 Paint | | 0 | 0 | | | | | | | | |
| | (Included Above) | Exterior Walls | 3.01 | | | | | | | | | |



CIP 2020-2024 Facilities

Police Headquarters

PD - Building Management System



1180 STRATFORD ROAD
STRATFORD, CT 06615
203.334.3419
203.333.3934 FAX
WWW.MAINHVAC.COM

Pub Fac. #9

July 10, 2019

Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Attn: Allen White

Re: Library control upgrade

Pursuant to our conversation regarding upgrade of the control system located at the **Library**, We are pleased to submit the following proposal and scope of work:

- **Provide engineering, web server, graphics, programming, wiring and wiring diagrams for the site.**
- **Provide and install controls for RTU 1, AH1, and Boiler**
- **Start and test all units.**

The price for the above work is: \$30,000.00

GUARANTEE

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delay beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance. If there is any default on payments, the signor agrees to pay all collection fees, court costs and lawyer fees and 1-1/2% per month interest, on the unpaid balance, not to exceed 18%. Such default will result in cancellation of all Warranties and Guaranteed work on any and all equipment.

Note: We may withdraw this proposal if not accepted within 30 days.

In hopes that you find this proposal acceptable, please sign below and return back via email jleslie@mainhvac.com or fax 203-683-1429 so that we may order the necessary items and schedule your work. If you have any questions, please feel free to contact me at 203-334-3419, extension 1416. I look forward to hearing from you.

Jim Leslie

7-10-19

Jim Leslie
Service Manager

Date

Accepted by (Customer)

Date

PD - Bathroom Renovation

CIP 2020- 2024 Facilities

Senior Center

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Senior Center

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Replace HVAC System in Multi-Purpose Room - The current system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations.

2nd Floor Kitchen renovation - The current 2nd floor kitchen is outdated and does not meet the needs of our residents. The goal is to bring the kitchen up to health and safety standards, and to create a more relaxed comfortable eating experience for our senior community.

Elevator modernization - current elevator is outdated and in constant need of repairs. Modernization is required in order to improve elevator efficiency, reliability and public safety

ADA ramp and door opener - Curb ramps are a critical element in allowing people with disabilities or our senior citizens to have full and complete access to the public right of way. This new ADA ramp and door opener will allow our residents to safely navigate and access our Sr. Center facilities

Parking lots paving - The current parking lot shows signs of damage; in addition, the parking lot does not sufficiently meet the current needs of the staff and residents parking at the Sr. Center. There is also a proposal to expand the parking lot and replace the bocce court. There is lack of parking for our residents and staff.

Replace Windows at Social Services - windows are outdated and show evidence of deterioration due to age and weather elements. Replacing these windows with energy-efficient ones can reduce heating and cooling costs by reducing the loss of heating and cooling

Will this project necessitate staffing increases?
No

What is the general plan and timeline for completion?
Estimated 2020 -2023

Are there any outside funding sources, e.g., grants?

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|--|-----------------------|-----------|-----------|---------|---------|------------|-------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| Sr. Center design & community approval efforts | 950,000 | | | | | 950,000 | no quote |
| Sr. Center construction | | 6,500,000 | 6,500,000 | | | 13,000,000 | no quote |
| Replace A/C in multi-purpose room | | 50,000 | | | | 50,000 | Pub Fac# 11 |
| Renovate 2nd floor kitchen | | 250,000 | | | | 250,000 | Pub Fac# 12 |
| Elevator modernization and upgrades (2) | | 200,000 | 200,000 | | | 400,000 | Pub Fac# 13 |
| Install handicap ramps and ADA door opener | | 33,000 | | | | 33,000 | Pub Fac# 14 |
| New Parking lot - paving | | 170,000 | | | | 170,000 | Pub Fac# 15 |
| Existing Parking lot - paving | | 370,000 | | | | 370,000 | Pub Fac# 16 |
| Replace windows at Social Services | | 55,000 | | | | 55,000 | Pub Fac# 17 |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

Sr. Center HVAC



MECHANICAL
HEATING, PLUMBING & A/C

(203) 268-9223

P.O. Box 294
Monroe, CT 06468
203-268-9223 FAX 203-452-8853

Pub. Fac. # 11

July 8, 2019

Town of Trumbull
5866 Main St
Trumbull, CT 06611

Re: Senior Center HVAC Replacement Revised

Thank you for the opportunity of quoting you on the replacement of the existing 10 ton HVAC system for the Trumbull Senior Center. All work will be performed with a high degree of craftsmanship and in compliance with all regulations and state and local codes.

A & B Mechanical, LLC will supply and install the following scope of work:

HVAC Scope of Work

- 1) Demo existing 10 ton Carrier system –Air Handler in closet upstairs (leave condenser in basement)
- 2) F&I one (1) Trane 10 ton Air Handler – disassemble and reassembly of AHU in Closet
- 3) F&I one (1) Trane 10 ton Outdoor Condenser
- 4) F&I Insulated Refrigeration & Condensate Piping
- 5) F&I New 3 phase wiring for Condenser
- 6) Thermostat & Wiring
- 7) Start & Test System
- 8) Permit
- 9) One Year Warranty

The above work can be done for the sum of:
Forty-One Thousand Nine Hundred Dollars (\$41,900.00) No Tax

Exclusions

1. New Electrical Panel
2. New Electrical services
3. Concrete Cutting, Excavation and Backfilling
4. Roof Cutting
5. Cutting, Patching, Painting
6. Overtime and Off Hours
7. Items Other than Listed Above

Guarantee: all labor, and material supplied by A & B Mechanical, LLC will carry a one (1) year guarantee from the date on installation against defects for both workmanship and material.

If you have any questions with our work please do not hesitate to call.

Thank you for the opportunity of working with you,

Arnie Jones Jr
A & B Mechanical, LLC

Terms and Conditions

A & B Mechanical, LLC is a SBE and Woman-Owned Business

Fax: (203) 452-8853 E-Mail: mailbox@abmechanicalllc.com Web: www.abmechanicalllc.com

CT Licenses S1:301170 P1:282005 SM1:3717 F1:11384 MEC:1168

Sr. Center Kitchen

December 6, 2019

Pub Fac # 12

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

Dear Mr. White:

Per your request, we are presenting this proposal for architectural / engineering fees as well as construction budgets for the following projects:

Helen Plumb Building:

Window Replacements

Construction Estimate: \$75,000 A/E Fee: \$14,000

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Construction Estimate: \$30,000 A/E Fee: \$0

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms

Construction Estimate: \$80,000 A/E Fee: \$15,000

Handicap accessible Improvements to (2) toilet rooms

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Council Chambers – Paint walls & Refinish wood

Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

Construction Estimate: \$3,000 A/E Fee: \$0



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851

t 203.956.5460

www.antinozzi.com

Senior Center Building

Replace Windows at Social Services Dept.
Construction Estimate: \$45,000 A/E Fee: \$10,000

Renovations to 2nd floor kitchen
Construction Estimate: \$220,000 A/E Fee: \$28,000

Elevator Modernization – (1) elevator
Construction Estimate: \$180,000 A/E Fee: \$20,000

Total = \$ 248,000

Public Works Buildings

Maintenance Garage – exterior painting
Construction Estimate: \$25,000 A/E Fee: \$0

Plow Trucks Garage – exterior painting
Construction Estimate: \$25,000 A/E Fee: \$0

Thank you for the opportunity to provide you with these construction budgets and fees. Please call me if you have any questions. We look forward to working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.



Paul A. Lisi, AIA
Principal / Project Manager

Sr. Center

Elevators (2)

December 6, 2019

Pub Fac # 13

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

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Town of Trumbull 2020 Capital Improvement Projects

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Town Hall Building

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Handicap accessible improvements to (2) toilet rooms

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Council Chambers – Paint walls & Refinish wood

Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

Construction Estimate: \$3,000 A/E Fee: \$0



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

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Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851

t 203.956.5460

www.antinozzi.com

Mr. Allen E. White
December 6, 2019
Page 2 of 2

Pub Fac # 13

Senior Center Building

Replace Windows at Social Services Dept.
Construction Estimate: \$45,000 A/E Fee: \$10,000

Renovations to 2nd floor kitchen
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Thank you for the opportunity to provide you with these construction budgets and fees. Please call me if you have any questions. We look forward to working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.



Paul A. Lisi, AIA
Principal / Project Manager

Sr. Center
ADA ramp and door opener

Allen White

From: Gregory M Raucci <gmraucci@bismarkconstruction.com>
Sent: Wednesday, July 31, 2019 8:02 AM
To: Allen White

Allen,

We are providing our estimated costs to install handicap ramps at the Senior center.

Front entrance \$28,000 dollars
Side entrance. \$21,000 dollars

A large portion of the cost on each is the handrails.

The side entrance might have a savings if we build up a portion of the grade to the entrance. In my opinion the side entrance has the easiest solution



Gregory M. Raucci |AIA President

Bismark Construction
Office: [203.876.8331](tel:203.876.8331)
gmraucci@bismarkconstruction.com
www.bismarkconstruction.com

STRATHMOOR ELECTRIC, INC.

1261 STRATFORD AVENUE
STRATFORD, CONNECTICUT 06615-6324
PHONE (203) 377-4261 FAX (203) 386-1388
CONNECTICUT LICENSE E-1 #196589
WESTCHESTER COUNTY LICENSE #1673

Proposal

July 30, 2019

Town of Trumbull
366 Church Hill Road
Trumbull, CT 06611

Re: Senior Center

We are pleased to submit our proposal for electrical work to include the following:

Handicap Door Opener

*Furnish and install the following:

- 1 ADA door opener
- 2 ADA handicap door buttons
 - One button mounted on outside post
 - One button mounted on inside wall
- 1 120 volt power

| | |
|-------------------|-------------------|
| TOTAL COST | \$5,550.00 |
|-------------------|-------------------|

WE PROPOSE to furnish labor and material – complete with the above specifications, for the sum of Five Thousand Five Hundred-Fifty and 00/100 Dollars

Payment to be made as follows: upon completion of work

ACCEPTED. The above prices, specifications, and conditions are satisfactory and hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Respectfully submitted,
STRATHMOOR ELECTRIC, INC.



Date of Acceptance _____

By _____

Michael Liscinsky

**Sr. Center
Parking Lot Paving**

Sr. Center Windows

December 6, 2019

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

Dear Mr. White:

Per your request, we are presenting this proposal for architectural / engineering fees as well as construction budgets for the following projects:

Helen Plumb Building:

Window Replacements

Construction Estimate: \$75,000 A/E Fee: \$14,000

Roof Replacement

Construction Estimate: \$45,000 A/E Fee: \$12,000

Front Door Replacement

Construction Estimate: \$5,000 A/E Fee: \$0

Transfer Station Building

New Emergency Generator

Construction Estimate: \$140,000 A/E Fee: \$14,000

Concrete Floor Slab Repairs

Construction Estimate: \$26,000 A/E Fee: \$10,000

Roof Replacement

Construction Estimate: \$120,000 A/E Fee: \$18,000

New Pre-Fabricated Salt Shed

Construction Estimate: \$30,000 A/E Fee: \$0

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms

Construction Estimate: \$80,000 A/E Fee: \$15,000

Handicap accessible Improvements to (2) toilet rooms

Construction Estimate: \$140,000 A/E Fee: \$24,000

Council Chambers – Paint walls & Refinish wood

Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

Construction Estimate: \$3,000 A/E Fee: \$0



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851

t 203.956.5460

www.antinozzi.com

Mr. Allen E. White
December 6, 2019
Page 2 of 2

Senior Center Building

Replace Windows at Social Services Dept.
Construction Estimate: \$45,000 A/E Fee: \$10,000

Total = \$ 55,000

Renovations to 2nd floor kitchen
Construction Estimate: \$220,000 A/E Fee: \$28,000

Elevator Modernization – (1) elevator
Construction Estimate: \$180,000 A/E Fee: \$20,000

Public Works Buildings

Maintenance Garage – exterior painting
Construction Estimate: \$25,000 A/E Fee: \$0

Plow Trucks Garage – exterior painting
Construction Estimate: \$25,000 A/E Fee: \$0

Thank you for the opportunity to provide you with these construction budgets and fees. Please call me if you have any questions. We look forward to working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.



Paul A. Lisi, AIA
Principal / Project Manager

CIP 2020- 2024
Public Facilities

PW Yard

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Public Works Yard

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Construction - Town Yard Garage maintenance/replacement/culvert - The purpose of this project is to install a concrete culvert behind the highway garage. This will allow for the expansion of the highway garage and greater truck maneuvering around the existing highway facility.

Structural Improvements to plow garage and bay door replacement - This garage is used to store plows. The current layout does not allow for plow trucks to be moved without first re-arranging trucks already parked inside the bay. Additionally, the plows are tightly packed into the bay making it very difficult for drivers to park and pull in and out of the garage. The current gate too narrow. The goal is to widen the opening and replace the gate; plows will have more room to move about and pull in and out of the garage without any obstructions. This will make the process safer and streamline the process. Costs estimated based on discussions with PW Director and industry prices for construction and materials.

Siding and stairwell replacement at building #6 - the siding and stairs have major structural issues and advanced rot damage that has spread throughout the building's exterior that requires replacement. The stairwell does not conform to current fire and building

What existing facilities or conditions will be affected by the project? How will this project improve these?

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2020 -2024

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|--|-----------------------|---------|---------|---------|---------|---------|-------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| Town Yard Garage maintenance/replacement/culvert | 450,000 | | | | | 450,000 | Pub Fac# 18 |
| Structural improvements to plow garage #2 and bay door replacement | 175,000 | | | | | 175,000 | no estimate |
| HWY Siding replacement building #6 | 82,000 | | | | | 82,000 | Pub Fac# 19 |
| HWY stairwell replacement building #6 | 80,000 | | | | | 80,000 | Pub Fac# 20 |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

PW Yard Culvert



Engineers | Environmental Specialists

**Preliminary Opinion of Probable Cost
for the Construction of**

| | | | |
|-------------|---------------------|----|------------|
| Prep'd Date | <u>02/22/18</u> | By | <u>TAS</u> |
| Ch'kd Date | <u>02/22/18</u> | By | <u>AJM</u> |
| Re'vd Date | <u>07/10/19</u> | By | <u>TS</u> |
| Town of | <u>Trumbull, CT</u> | | |
| Funds | _____ | | |
| Town No. | _____ | | |
| Project No. | <u>29-0196-102</u> | | |
| Sheet No. | <u>1</u> | of | <u>1</u> |

Project Trumbull DPW Highway Culvert
Description Culvert Replacement, Trumbull, CT

| No. | Item | Unit | Quantity | Price | Amount |
|----------|---|------|----------|----------|------------------|
| 0202001 | Earth Excavation | CY | 300 | \$40 | \$12,000 |
| 0202101 | Rock Excavation | CY | 40 | \$200 | \$8,000 |
| | Removal of Existing Culverts | LS | 1 | \$10,000 | \$10,000 |
| | Water Handling System | LS | 1 | \$25,000 | \$25,000 |
| | Soil Erosion Control | LS | 1 | \$15,000 | \$15,000 |
| 0212001 | Subbase Material | CY | 130 | \$30 | \$3,900 |
| 0406170 | HMA, Class 1 | Ton | 300 | \$100 | \$30,000 |
| 0406171 | HMA, Class 2 | Ton | 300 | \$100 | \$30,000 |
| 0406236 | Material for Tack Coat | Gal | 100 | \$10 | \$1,000 |
| | 2.5' x 5' RC Box Culvert | LF | 223 | \$600 | \$133,800 |
| | Precast Wing Walls | Each | 2 | \$20,000 | \$40,000 |
| 0507001 | Type "C-L" Catch Basin | Each | 1 | \$3,500 | \$3,500 |
| 0507781 | Reset Manhole | Each | 1 | \$500 | \$500 |
| 0651746 | 15" PVC - Storm Drainage | LF | 25 | \$75 | \$1,875 |
| 0703001 | Rip-Rap Slope | CY | 30 | \$75 | \$2,250 |
| 0811002A | Bituminous Concrete Curb | LF | 250 | \$5 | \$1,250 |
| | Subtotal | | | | \$318,075 |
| 0201001 | Clearing and Grubbing (3%) | LS | 1 | \$9,542 | \$9,542 |
| 0971001 | Maintenance and Protection of Traffic | LS | 1 | \$5,000 | \$5,000 |
| | Subtotal | | | | 332,617 |
| 20% | Contingencies | | | | 66,523 |
| | CONSTRUCTION SUBTOTAL | | | | 399,141 |
| 5.0% | Engineering Design, Construction Docs and Bidding | | | | 19,957 |
| 1.5% | Construction Administration | | | | 5,987 |
| 6.0% | Construction Observation | | | | 23,948 |
| | PROJECT TOTAL | | | | 449,100 |

449,100 ✖

PW Yard

Building # 6

December 1, 2017

Pub Fac # 19 and 20
Building #6 DPW

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets & A/E Budgets
for first quarter 2018 Projects

Dear Mr. White:

Per your request, we are presenting construction cost estimates and architectural / engineering fees for the following projects:

Helen Plumb Building – Window Replacements & Siding Repairs

Construction Estimate: \$76,000 + A/E Fee: \$14,800

Transfer Station – Concrete Slab Repairs

Construction Estimate: \$22,000 + A/E Fee: \$9,400

Transfer Station – New Generator

Construction Estimate: \$125,000 + A/E Fee: \$13,800

DPW Building #6 – Siding Replacement

Construction Estimate: \$68,000 + A/E Fee: \$13,200

DPW Building #6 – New Exit Stair

Construction Estimate: \$62,000 + A/E Fee: \$17,500

DPW Garage – Shingle Roof Replacement

Construction Estimate: \$48,000 + A/E Fee: \$10,500

Senior Center – Elevator Modernization

Construction Estimate: \$215,000 + A/E Fee: \$18,800

Thank you for the opportunity to provide you with these budg
Please call me if you have any questions. We look forward to
working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.

Paul A. Lisi, AIA
Principal / Project Manager



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3007

301 Merritt 7
Norwalk, Connecticut 06851

t 203.956.5468

www.antinozzi.com

Total = \$81,200

Total = \$79,500

197K

32K

140K

181K

79K

59K

234K

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Police Headquarters

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Building Maintenance System (BMS) - A BMS is the automatic centralized control of a building's HVAC system. Installing this type of automated centralized control system will result in improved occupant comfort, increased efficiency operation of HVAC system and reduction in energy consumption.

Bathroom renovations - the current restrooms are dated and showing signs of wear and tear. The building requires a restroom update to meet ADA standards and bring them up to building code.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated construction 2021 - 2023

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---|-----------------------|---------|---------|---------|---------|--------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Connect HVAC system to BMS (Building Management System) | | 30,000 | | | | 30,000 |
| Misc. - Bathroom Renovations | - | | 70,000 | | | 70,000 |
| | | | | | | - |

Pub Fac# 9

Pub Fac# 10

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**CIP 2020- 2024
Public Facilities**

Helen Plumb Building

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Hellen Plumb Building

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

HVAC system replacement- Current HVAC system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations. Cost is based on . Replacement to be done in partnership with UI.

Window replacement - windows are outdated and show evidence of deterioration due to age and weather elements. Replacing these windows with energy-efficient ones can reduce heating and cooling costs. Some exterior areas of the building structural issues and advanced rot damage that has spread throughout the building's exterior that requires replacement.

Roof replacement - the building's roof shows signs of damage due to old age and weather. Replacement is needed in order to prevent any possible damage to property.

What existing facilities or conditions will be affected by the project? How will this project improve these?

HVAC system replacement- HVAC controls & system need to be upgraded in order to operate the system properly and more efficiently. Cost based on Main Enterprises quotation. Replacement to be done in partnership with UI.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2020 - 2021

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|-------------------------|-----------------------|---------|---------|---------|---------|--------|-------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| HVAC system replacement | 80,000 | | | | | 80,000 | Pub Fac# 23 |
| Window replacement | | 90,000 | | | | 90,000 | Pub Fac# 24 |
| Roof replacement | | | 60,000 | | | 60,000 | Pub Fac# 25 |
| | | | | | | - | |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

HP - HVAC System



1180 STRATFORD ROAD
STRATFORD CT 0661
203.334.3419
203 333 3934 FAX
WWW.MAINHVAC.COM

Pub Fac # 23

June 2, 2017

Town of Trumbull
5866 Main St
Trumbull, CT

Re: The Helen Plumb Building
HVAC & Light Budget

Attn: Allen White
Phone: 1-203-673-5994

BUDGET PROPOSAL

We are pleased to submit the following proposal to perform the HVAC & Electrical work as described in the scope of work as listed below:

HVAC Scope:

- (2) Gas Fired Furnaces- 95% Efficient
- (2) A/C Condensing Units
- (2) A/C Evaporator Coils
- (1) Wall Hung Water Heater
- (2) Condensate Pumps
- New Refrigeration line sets
- New PVC Flue Piping
- Gas Piping – disconnect & reconnect
- Condensate Piping – disconnect & reconnect
- Duct Work – disconnect & reconnect
- Electrical Power Wiring – disconnect & reconnect
- Comfort air balancing
- Unity Controls
- Demolition & removal of existing HVAC equipment
- Existing duct work to be re-used
- Start-up and testing
- 12 Month Warranty from date of installation
- All work performed during normal working hours

Electrical Scope:

- (12) 2' X 4' LED Ceiling Lights
- (6) 12" Round LED Ceiling Lights
- (8) Wall Sconce Lights
- (4) Chandeliers
- All work performed during normal working hours

Total Budget:

\$72,000.00Tax Not Included**

PLM: 0281335-P1
HTG: 390177-51
MEC: 001128

Excludes:

- Air quality control
- Allowances
- Architectural access doors
- Bonds
- Ceiling removal and installation
- Cleaning or servicing of existing ductwork or equipment
- Concrete housekeeping pads
- Concrete saw cutting, breaking, and patching
- Cutting, patching, and flashing (ceilings, walls, roof deck, etc...)
- Duct smoke detectors (furnished and wired by others)
- Dumpsters
- Excavation and backfilling including bedding materials
- Fire protection
- Furring out of walls and / or ceilings
- Hazardous material remediation including Lead RRP or asbestos
- Painting (including duct, steelwork, and or piping)
- Permit fees
- Premium hours
- Prevailing wages
- Roof penetrations and flashings
- Structural Steel and / or dunnage
- Taxes
- Temporary Services (including air conditioning, heating, ventilation and or dust control)
- Utility company charges, rebates and incentives
- Weather proofing (including vents thru roof or walls)

If you have any questions, please feel free to contact me at 203-334-3419, ext. 1415 or email EWolf@mainhvac.com
I look forward to hearing from you.

Edward Wolf

President

Direct: 203-334-3419 Ext 1415

Cell: 203-650-9008

HP - Windows & Roof replacement

December 6, 2019

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

Dear Mr. White:

Per your request, we are presenting this proposal for architectural / engineering fees as well as construction budgets for the following projects:

Helen Plumb Building:

Window Replacements

Construction Estimate: \$75,000 A/E Fee: \$14,000

24 Total = \$ 89,000

Roof Replacement

Construction Estimate: \$45,000 A/E Fee: \$12,000

28 Total = \$ 57,000

Front Door Replacement

Construction Estimate: \$5,000 A/E Fee: \$0

Transfer Station Building

New Emergency Generator

Construction Estimate: \$140,000 A/E Fee: \$14,000

Concrete Floor Slab Repairs

Construction Estimate: \$26,000 A/E Fee: \$10,000

Roof Replacement

Construction Estimate: \$120,000 A/E Fee: \$18,000

New Pre-Fabricated Salt Shed

Construction Estimate: \$30,000 A/E Fee: \$0

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms

Construction Estimate: \$80,000 A/E Fee: \$15,000

Handicap accessible improvements to (2) toilet rooms

Construction Estimate: \$140,000 A/E Fee: \$24,000

Council Chambers – Paint walls & Refinish wood

Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

Construction Estimate: \$3,000 A/E Fee: \$0



ANTINOZZI ASSOCIATES
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271 Fairfield Avenue
Bridgewater, Connecticut 06604
t 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851
t 203.956.5460

www.antinozzi.com

CIP 2020-2024
Public Facilities

EMS Building

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - EMS Building

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Site Construction reconfiguration and expansion - the proposed EMS facility expansion will be designed and operated so as to maintain and promote public health, safety, and general welfare. EMS provides emergency services to those in need. In recent years, the Town has recognized the need for additional and modernized space in order to serve the needs of the Town.

RTU Rooftop Unit Replacement -Replacement of 3 packaged 3-ton units. Current HVAC system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations. Cost is based on Antinozzi Associates building inspection report.

What existing facilities or conditions will be affected by the project? How will this project improve these?

RTU replacement at EMS Building- system needs to be upgraded in order to operate the system properly and more efficiently.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2022 - 2023

Are there any outside funding sources, e.g., grants?

Possible UI Partnership for RTU Rooftop units

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|--|-----------------------|-----------|---------|---------|---------|-----------|---------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| Site Design - Reconfiguration/Expansion | 50,000 | | | | | 50,000 | estimate only |
| Site Construction - Reconfiguration/Expansion | | 2,000,000 | | | | 2,000,000 | Pub Fac# 21 |
| Mechanical - RTU Rooftop Unit Replacement | | | 54,000 | | | 54,000 | Pub Fac# 22 |
| | | | | | | - | |
| | | | | | | - | |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

EMS

**Building Reconfiguration/
Expansion**



DECARLO
& DOLL, INC.

Pub. Fac. # 21

ARCHITECTS
ENGINEERS
SURVEYORS
PLANNERS
CONSTRUCTION
MANAGERS

September 23, 2016

Mr. John Marsilio
Public Works Director
Trumbull Public Works Department
366 Church Hill Street
Trumbull, CT 06611

RE: Emergency Medical Services Building - Preliminary Project Cost Estimate

Dear Mr. Marsilio,

Per your request, attached are Preliminary Project Costs Budget Estimate for the Proposed EMS Building Renovation, Addition and Site Improvements.

To date, we have not performed Feasibility Studies or Programming, therefore, the cost estimates attached are ballpark numbers, strictly for the Town's Preliminary Budget purposes.

Our cost assumptions are based on the following:

1. The Existing Facility is 5000 SF (Fact)
2. Existing Facility would require 67% or 3,300 SF of Upgrades and Renovations.
4. New addition would be a separate and detached One Story Building on same site.
This New Addition would be limited to 2500 SF.
5. Other Site Costs and Professional Fees are also Preliminary Budget Estimates based on similar projects.

Please contact us at your earliest convenience should you have any questions. We look forward to continuing our professional relationship with you and the Town of Trumbull.

Very truly yours,
DeCARLO & DOLL, Inc.

Emanuel Machado
Sr. Project Manager

Cc: Ron Nault
Allen White
File



DECARLO
& DOLL, INC.

Pub. Fac. # 21

| <u>Emergency Medical Services</u> | <u>Preliminary Project Cost Budget Estimate</u> |
|--|---|
| 1.0 SITE IMPROVEMENTS..... | \$125,000.00 |
| 2.0 UTILITIES / STORM DRAINAGE..... | \$50,000.00 |
| 3.0 RENOVATIONS at EXISTING FACILITY (3,300 SF – Does not include existing garage area) | \$495,000.00 |
| 4.0 NEW 2,500 sf ADDITION (of similar Construction Type)..... | \$625,000.00 |
| 5.0 FURNITURE, FURNISHINGS and EQUIPMENT..... | \$80,000.00 |
| 6.0 DATA, TELCOM, SPECIALIZED COMMUNICATIONS EQUIPT..... | \$70,000.00 |
| 7.0 PROFESSIONAL FEES / OTHER OWNER COSTS..... | \$175,000.00 |
| <hr/> | |
| ESTIMATED PROJECT SUBTOTAL..... | \$1,620,000.00 |
| 8.0 CONTINGENCIES (10% of SUBTOTAL ABOVE)..... | \$162,000.00 |
| ESTIMATED PROJECT COSTS TOTAL..... | \$1,782,000.00 |

DECARLO
& DOLL, INC.

Trumbull Emergency Medical Service

Request for Projects

Project Requested: Renovation/Expansion of EMS Building

This project is currently on the Five-Year Plan for 2019. Preliminary drawings have been done and Engineering has done site work.

Bay Space

EMS seeks to find a way to increase building size to allow for eight vehicles to be parked inside the building. The building has three standard ten foot bays and an oversized bay that 1.5 vehicles can park in at one time. During the cold months, one paramedic fly car is parked in the back bay next to an ambulance. Getting the vehicle in this location is not only difficult but it provides limited space to get in and around the vehicles in the garage. The second fly car is parked outside at the back of the building with a boat heater and shore line. Currently, there are seven emergency response vehicles. This would require seven bays. In addition to the vehicles, the all-terrain John Deere Gator needs to be secured inside. The eighth bay would be used to house the gator on a trailer so it can be quickly deployed, if needed, to respond to the trail system in town.

Interior Needs

Larger crew quarters are needed as there are 3-4 crews on shift on a regular basis (6-8 staff minimum not including volunteers). A larger kitchen facility would be advantageous, especially for emergency preparedness and in being able to be prepare meals. Currently there is only a four foot galley area that does not even have sufficient space to prepare a sandwich or a meal. Crews work 12-24 hour shifts so it is common to eat two to three meals while on shift.

A private meeting/conference room would also be highly beneficial to the department. This room could potentially act as a report writing room for EMS providers to complete their patient care reports after each call (this would be better served as a separate room but if space is limited, perhaps can be used as a dual purpose). A large community room capable of seating approximately 30 people behind desks is needed. We teach many classes each month in CPR, First Aid, EMT, EMR and continuing education classes in this room.

The potential for using the EMS building as the main EOC has been discussed with Emergency Management and IT. This building has a generator and would have the capacity for multiple disciplines to be in the same area without over crowding. With potential multiple meeting areas, the EOC would have minimal interference with daily EMS operations. An enlarged kitchen area would allow for the serving of meals to all participants and emergency service staff on duty at that time. The Police Department Building would then become the secondary EOC.

Currently there is one office (it was subdivided into two rooms). The EMS department would like to see three/four offices be constructed, if possible: one office for the Executive Assistant, one for the Chief and two for the on duty supervisors/crew.

Bunk rooms currently sleep three men and three women. Exploring a locker room for crew members to get changed, lock up belongings, shower, if necessary, after calls where they may be exposed to blood, diseases, etc. is a high priority. Currently, the building staff leaves their belongings on a table in the community room.

Other Space

The department requires a lot of storage for medical supplies and emergency preparedness supplies. A storage room for medical supplies would be necessary. A loft, perhaps in the bay area, could be used for over-flow supplies, spare tires, fleet supplies, linens and/or emergency preparedness supplies. A space with a decontamination shower, washer and dryer would be requested in the bays so crew members and/or equipment can be decontaminated, if necessary, prior to walking into the office section of the building. EMS launders many of their linens as well as equipment. This room can also be properly equipped to secure biohazard waste material when necessary.

Exterior Space

A parking lot for 12 cars during business hours is needed.

The department is open to all and any possibilities, including finding a location in close proximity to our current location in order to keep response times down, as we are now centrally located in town. When the current structure was built, the service responded to a small fraction of the calls dispatched today. Our call volume is expected to increase as our town expands and ages. We currently respond to over 4,300 calls each year. The director has been told when the current building was built EMS was responding to about 500 emergencies annually.

The biggest challenges to date are having

1. enough space to park emergency vehicles inside a building
2. space for crews to write reports and complete their documentation after each call
3. a private place to hold small meetings (supervisor meeting, staff reviews, call reviews)
4. increased storage space as the building is currently at maximum capacity
5. sufficient parking as staff have a difficult time finding a place to park during school hours. The parking lot is shared with the pre-school next door.
6. public and private areas of the building separate.

Renovation of the building would also solve the roof leaks into the building when it rains due to all the roof runoff directed to the back of the building into household gutters. This results in water completely covering the floor in the medical supply storage rooms and could compromise our radio transmitter located in that area. It also courses down the outside of the back of the building which has compromised the integrity of the concrete wall.

EMS RTU Rooftop Unit

Pub Fac # 22

| CSI/ Spec # | CSI Format Names | Report Item Names | Previous Report #/ New Item | Com- plete | Quantity | Totals By Division | Suggested 5 Year Capital Improvement Plan | | | | | Comments / Notes |
|----------------|-------------------------------------|---------------------------|-----------------------------------|---------------|----------|-----------------------|---|----------|----------|---------|---------|--|
| | | | | | | | 2010 - 11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | |
| 0 15408 | Domestic Water Supply | Water Distribution System | 7.01 | No | 1 | | | \$2,500 | | | | Back Flow preventer not installed |
| 0 15412 | Plumbing Fixtures | Plumbing Fixtures | 7.03 | No | 1 | | | \$1,500 | | | | Drinking fountain is aged and needs replacing |
| 0 0 0 | | | 0 0 | | | | | | | | | |
| 0 15405 | Domestic Water Heaters | Water Heaters | 7.04 | Yes | 1 | | | | | | | |
| 0 15512 | Boilers | Boiler / Furnace | 8.01 | No | 1 | | | | \$10,000 | | | Boiler was not replaced. Replace Boiler (However as an option for boiler replacement, Owner may want to discontinue boiler and current cooling only RTU use, and install a gas fired packaged RTU that can ventilate during the heating cycle) |
| 0 15181 | Hydronic Piping | Heating Systems Piping | 8.02 | No | 50 LF | | | | | \$9,500 | | 1) Replace hot water baseboard in classroom 2) Insulate hydronic piping in Boiler Room |
| 0 0 0 | | | 0 0 | | | | | | | | | |
| 0 15200 | Ductwork and Air Outlets | Ductwork | 8.04 | No | | | | \$4,000 | | | | Clean all exhaust ductwork / Clean Chimney of Soot / Clean dryer vent |
| 0 0 | (Included Above) | Ductwork Insulation | 8.04 | | | | | | | | | |
| 0 15768 | Unit Ventilators | Unit Ventilators | 8.05 | | | | | | | | | |
| 0 15766 | Cabinet Unit Heaters | Terminal Units | 8.07 | | | | | | | | | |
| 0 0 | Fin Tube Heating | | 0 New Item | | | | | | | | | |
| 0 15900 | HVAC Instrumentation & Control | Control Systems | 8.09 | No | | | | \$1,200 | | | | Install boiler controls to save operation cost and maximize efficiency |
| 0 0 0 | | | 0 0 | | | | | | | | | |
| 0 15407 | Heating Fuel Systems | Heating Fuel Systems | 8.10 | | | | | | | | | |
| 0 0 0 | | | 0 0 | | | | | | | | | |
| 0 15738 | Split System Air Conditioning Units | Air Conditioning Systems | 8.11 | No | 3 | | | | | | | Replace three existing packaged 3-ton units (assumed close to the end of it's useful life) |
| 0 15421 | Testing Adjusting & Balancing | Ventilation Systems | 8.03 | | | | | | | | | |
| 0 15500 | Air Handling and Treatment | Air Handling Systems | 8.06 | | | | | | | | | |
| 0 0 | (Included Above) | Humidity | 11.06 | | | | | | | | | |
| 0 0 | (Included Above) | Ventilation | 11.07 | | | | | | | | | |
| 0 0 | (Included Above) | Ventilation Systems | 8.03 | No | | | | | | | | A building ventilation system during the winter is non-existent. Proper ventilation is needed including in Garages. See "Boiler" line item for ventilation remedy |
| 0 0 | (Included Above) | Exhaust Systems | 8.08 | No | 1 | | | \$12,000 | | | | Replace rooftop exhaust units (includes providing proper toilet room & Kitchen exhaust) |



CIP 2020-2024
Public Facilities

Transfer Station

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Transfer Station

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Concrete Slab repair - the concrete slab and subfloor on the commercial side of the Transfer Station has small cracks, hairline fractures moderate in nature. The structure is structurally sound but needs repairs to avoid further damage and avoid full replacement costs.

Generator - This facility currently does not have a generator or sufficient backup power that would be necessary to keep the facility running in the event of a total power failure. The requested funds will be used to install a unit at the Transfer Station in order to avoid shut downs of this facility's operations.

Roof replacement - the building's roof shows signs of damage due to old age and weather. Replacement is needed in order to prevent any possible damage to property.

New pre-fabricated salt shed - currently this facility does not have a salt shed to store material used to treat driveways/roads/parking at the transfer station after snow storms in order maintain a safe environment for residents and employees. The new salt shed will maximize the life of salt stockpiles by offering a durable, environmentally conscious, cost effective storage solution.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Transfer Station road widening will increase driver safety by giving drivers more room to get around.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2020 - 2023

Are there any outside funding sources, e.g., grants?

Costs will be split -- Trumbull approx. 60% and 40% TEAM

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|----------------------------|-----------------------|---------|---------|---------|---------|---------|-------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| Concrete slab repair | 45,000 | | | | | 45,000 | Pub Fac# 26 |
| Transfer Station generator | 155,500 | | | | | 155,500 | Pub Fac# 27 |
| Roof replacement | | 140,000 | | | | 140,000 | Pub Fac# 28 |
| Pre-fabricated salt shed | 30,000 | | | | | 30,000 | Pub Fac# 29 |
| | | | | | | - | |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

Transfer Station Concrete Slab

December 1, 2017

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Pub Fac # 26
Transfer Station

Re: Construction Budgets & A/E Budgets
for first quarter 2018 Projects

Dear Mr. White:

Per your request, we are presenting construction cost estimates and architectural / engineering fees for the following projects:

Helen Plumb Building – Window Replacements & Siding Repairs

Construction Estimate: \$76,000 + A/E Fee: \$14,800

897K

Transfer Station – Concrete Slab Repairs

Construction Estimate: \$22,000 + A/E Fee: \$9,400

32K

Total = \$ 31,400

Transfer Station – New Generator

Construction Estimate: \$125,000 + A/E Fee: \$13,800

140K

DPW Building #6 – Siding Replacement

Construction Estimate: \$68,000 + A/E Fee: \$13,200

181K

DPW Building #6 – New Exit Stair

Construction Estimate: \$62,000 + A/E Fee: \$17,500

79K

DPW Garage – Shingle Roof Replacement

Construction Estimate: \$48,000 + A/E Fee: \$10,500

159K

Senior Center – Elevator Modernization

Construction Estimate: \$215,000 + A/E Fee: \$18,800

234K



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851

t 203.956.5468

www.antinozzi.com

Thank you for the opportunity to provide you with these.
Please call me if you have any questions. We look forward
working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.

Paul A. Lisi, AIA
Principal / Project Manager

**Transfer Station
Generator, Roof and Salt
Shed**

December 6, 2019

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

Dear Mr. White:

Per your request, we are presenting this proposal for architectural / engineering fees as well as construction budgets for the following projects:

Helen Plumb Building:

Window Replacements

Construction Estimate: \$75,000 A/E Fee: \$14,000

Roof Replacement

Construction Estimate: \$45,000 A/E Fee: \$12,000

Front Door Replacement

Construction Estimate: \$5,000 A/E Fee: \$0

Transfer Station Building

New Emergency Generator

Construction Estimate: \$140,000 A/E Fee: \$14,000

27 = \$154,000

Concrete Floor Slab Repairs

Construction Estimate: \$26,000 A/E Fee: \$10,000

Roof Replacement

Construction Estimate: \$120,000 A/E Fee: \$18,000

28 = \$138,000

New Pre-Fabricated Salt Shed

Construction Estimate: \$30,000 A/E Fee: \$0

29 = \$30,000

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms

Construction Estimate: \$80,000 A/E Fee: \$15,000

Handicap accessible improvements to (2) toilet rooms

Construction Estimate: \$140,000 A/E Fee: \$24,000

Council Chambers – Paint walls & Refinish wood

Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

Construction Estimate: \$3,000 A/E Fee: \$0



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271 Fairfield Avenue
Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851

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www.antinozzi.com

Mr. Allen E. White
December 6, 2019
Page 2 of 2

Senior Center Building

Replace Windows at Social Services Dept.

Construction Estimate: \$45,000 A/E Fee: \$10,000

Renovations to 2nd floor kitchen

Construction Estimate: \$220,000 A/E Fee: \$28,000

Elevator Modernization – (1) elevator

Construction Estimate: \$180,000 A/E Fee: \$20,000

Public Works Buildings

Maintenance Garage – exterior painting

Construction Estimate: \$25,000 A/E Fee: \$0

Plow Trucks Garage – exterior painting

Construction Estimate: \$25,000 A/E Fee: \$0

Thank you for the opportunity to provide you with these construction budgets and fees. Please call me if you have any questions. We look forward to working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.



Paul A. Lisi, AIA
Principal / Project Manager

**CIP 2020-2024
Public Facilities**

Townwide

Project :

Various Sidewalk Restoration
Parking Lots and Driveway

Date: 9/19/2019

Estimate By: WCM

Checked By:

| ITEM NO. | ITEM DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|------------------------------|--------------------|------|----------|------------|-----------------|
| | Excavation / | SY | 500 | \$5.00 | \$2,500 |
| | Subgrade | SY | 500 | \$2.00 | \$1,000 |
| | Concrete sidewalk | SF | 5,000 | \$12.00 | \$60,000 |
| | Topsoil | SY | 500 | \$2.00 | \$1,000 |
| | Turf Establishment | SY | 500 | \$10.00 | \$5,000 |
| UNIT PRICE SUBTOTAL = | | | | | \$69,500 |

ALLOWANCES

| | | | | | |
|-----------------------------|-----------|--|--|----|-------------|
| Drainage | ALLOWANCE | | | \$ | - |
| | ALLOWANCE | | | \$ | - |
| ALLOWANCE SUBTOTAL = | | | | | \$ - |

UNIT PRICE + ALLOWANCE = \$ 69,500.00

LUMP SUM ITEMS

| | | | | | |
|----------------------------|--|--|--|--|-------------|
| | | | | | |
| | | | | | |
| LUMP SUM SUBTOTAL = | | | | | \$ - |

SUBTOTAL -UNIT PRICE +ALLOWANCES+ LUMP SUM = \$ 69,500.00

CONTINGENCY AND INCIDENTALS

| | | |
|---|----|---------------------|
| Contingency & Incidents (15% x (Unit Price + Allowances + Lump Sum)) | \$ | 10,425.00 |
| TOTAL = | | \$ 79,925.00 |

ADD 5% ESCALATION PER YEAR - IF NOT COMPLETED IN 2020 = \$ 3,996.00

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Townwide

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Townwide sidewalk surface conditions degrade over time to a point where tripping hazards exist or worsening running or cross slope conditions are making routes inaccessible, or dangerous to pedestrians. Sidewalk replacement and repairs are necessary and will cycle through the community, focusing on different neighborhoods over a number of years as repairs become necessary.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Sidewalks townwide

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2020-2021

Are there any outside funding sources, e.g., grants?

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---------------------------|-----------------------|---------|---------|---------|---------|--------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Townwide sidewalk repairs | 80,000 | | | | | 80,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

Pub Fac# 30

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

2020-2021 Capital Request Summary

Hillcrest Middle School

Asbestos Abatement-\$40,000

This is the fifth year of a systematic approach to dealing with the Asbestos in our schools, in the past this process was reactive rather than proactive. We have developed an inventory at each school and a plan to systematically remove asbestos flooring and insulation from our schools.

Remove ext. concrete shade panels - \$92,000

The concrete shades are degrading at connection points to building and between their connections to each other. Eventually they will become a safety issue, additionally they will have to be removed in order complete a window replacement project.

Madison Middle School

Asbestos Abatement- \$75,000

This is the fifth year of a systematic approach to dealing with the Asbestos in our schools, in the past this process was reactive rather than proactive. We have developed an inventory at each school and a plan to systematically remove asbestos flooring and insulation from our schools.

Electrical Infrastructure upgades- \$175,000

This funding request is to update electrical distribution and sub panels that are original to the school. Over the years with the additional computers and AC units the building was not designed for has created capacity issues within the aging infrastructure.

Middlebrook Elementary School

Daniels Farm Elementary School

Asbestos Abatement-\$45,000

This is the fourth year of a systematic approach to dealing with the Asbestos in our schools, in the past this process was reactive rather than proactive. We have developed an inventory at each school and a plan to systematically remove asbestos flooring and insulation from our schools

Jane Ryan Elementary School

Asbestos Abatement-\$50,000

This is the fourth year of a systematic approach to dealing with the Asbestos in our schools, in the past this process was reactive rather than proactive. We have developed an inventory at each school and a plan to systematically remove asbestos flooring and insulation from our schools.

Parking Lot – Sidewalks/Driveway - \$1,350,000

This funding will address sidewalk replacement as required, drainage improvements and new pavement at Jane Ryan School. This project may be phased depending on conditions of drainage.

Booth Hill Elementary School

Asbestos Abatement-\$25,000

This is the fourth year of a systematic approach to dealing with the Asbestos in our schools, in the past this process was reactive rather than proactive. We have developed an inventory at each school and a plan to systematically remove asbestos flooring and insulation from our schools.

Trumbull High School

ADA Field compliance - \$175,000

This additional funding is in addition to \$105,000 that was approved last year and work that was accomplished this summer. Additional work other than what was identified by Park and Rec is necessary in order to be in compliance with ADA.

Long Hill Administration Building

New Administration Building - \$3,900,000

This is an estimate that was developed to replace the Long Hill Admin building additionally we have been carrying for four years now approximately \$1,095,000 to affect repairs to roof, paving, drainage and HVAC.

Build Data Center at High School - \$175,000

In order to be prepared for moving or building failures at Long Hill it will be necessary to plan for moving the Data Center into the High School.

Long Hill Building



TRUMBULL BOARD OF ADMIN / OFFICE

1/8" = 1'-0"



Trumbull Board of Education
New Admin Building Madison Ave, Trumbull, Ct.
Master Control Budget May 2, 2018

I. CONSTRUCTION COSTS (HARD COSTS) Total Sq. Ft.

| | Units | Cost |
|---|---------------|---------------------|
| CONSTRUCTION COST () | | \$ 2,836,670 |
| | | |
| 11750 | sf | |
| Subtotal Construction Costs | 241.42 | \$ 2,836,670 |
| 9 Excess Liability | | \$ - |
| 10. State of Ct. Permit Fee 0.17% | | \$ 4,822 |
| 11. Building Permit Fees 1.70% | | \$ 48,223 |
| 12. General Conditions | | in cost |
| 13. Construction Management Reimbursable | | |
| 14. Bonds 1.300% | | \$ 36,877 |
| 15. Construction Management Fee 6.00% | | \$ 170,200 |
| A/E fee design 6.00% | | \$ 170,200 |
| 16. Construction Contingency 5.00% | | \$ 141,834 |
| 17. Design Contingency 0.00% | | \$ - |
| 18. Escalation Contingency 0.00% | | \$ - |
| SUBTOTAL OF CAPITAL CONSTRUCTION COSTS | 290.11 | \$ 3,408,826 |

II. OTHER CAPITAL COSTS

| | | |
|--|--|-------------------|
| 1. Furniture | | \$ 50,000 |
| 2. Technology/Computers (cabling included in construction costs) | | \$ 50,000 |
| 3. Data/T.V. Cabling | | \$ - |
| 4. Phone System and Cabling | | \$ - |
| | | \$ - |
| | | |
| | | |
| SUBTOTAL OF OTHER CAPITAL COSTS | | \$ 100,000 |

SUBTOTAL OF EXPENSES ABOVE **\$ -**

IV. Legal, Administrative, Bonding Costs, Short Term Financing (allow)

V. PROJECT OWNER'S CONTINGENCY

TOTAL PROJECT CONSTRUCTION COST: **\$ 3,508,826**

Trumbull Bd of Education
New Admin Building



ARCH
DATED May 2, 2018
BISMARK CONSTRUCTION COMPANY
203 - 876 - 8331

BISMARK

BCC

12,000 square ft

| DESCRIPTION | DIVISION OF WORK SUBTOTALS | SF COST |
|--|-------------------------------|------------------|
| 10 00 00 GENERAL CONDITIONS | \$ 218,300.00 | \$ 18.19 |
| 02 00 00 SELECTIVE DEMOLITION | \$ - | \$ - |
| 03 00 00 CONCRETE WORK | \$ 185,600.00 | \$ 15.47 |
| 04 00 00 MASONRY | \$ 205,000.00 | \$ 17.08 |
| 05 00 00 METALS | \$ 240,000.00 | \$ 20.00 |
| 06 00 00 WOOD, PLASTICS, AND COMPOSITES | \$ 115,000.00 | \$ 9.58 |
| 07 00 00 THERMAL AND MOISTURE PROTECTION | \$ 51,400.00 | \$ 4.28 |
| 08 00 00 DOORS AND WINDOWS | \$ 189,150.00 | \$ 15.76 |
| 09 00 00 FINISHES | \$ 345,800.00 | \$ 28.82 |
| 10 00 00 SPECIALTIES | \$ 14,720.00 | \$ 1.23 |
| 11 00 00 EQUIPMENT | \$ 8,000.00 | \$ 0.67 |
| 12 00 00 FURNISHINGS | \$ 16,000.00 | \$ 1.33 |
| 13 00 00 SPECIAL CONSTRUCTION | | |
| 14 00 00 ELEVATOR SYSTEMS | \$ 80,000.00 | \$ 6.67 |
| 15 00 00 SPRINKLER SYSTEMS | \$ 84,000.00 | \$ 7.00 |
| 22 00 00 PLUMBING | \$ 180,000.00 | \$ 15.00 |
| 23 00 00 HVAC | \$ 336,000.00 | \$ 28.00 |
| 26 00 00 ELECTRICAL | \$ 288,000.00 | \$ 24.00 |
| 31 00 00 EARTHWORK | \$ 279,700.00 | \$ 23.31 |
| SUBTOTAL: | \$ 2,836,670.00 | \$ 236.39 |

PROJECT **New Admin Building Bd of Ed**
Trumbull

Project duration 11 months
project size 12,000 sf



CONSTRUCTION MANAGERS
203-876-8331

New Administration Building

ARCHITECT

DATED **August 10, 2016**
25% drawings

BISMARK CONSTRUCTION COMPANY
Construction Document Phase Estimate

| Item | DESCRIPTION | QUANT U/M | MATERIAL TOTAL | LABOR TOTAL | EQUIPMENT TOTAL | UNIT COST | TOTAL COST |
|--|----------------------------------|-----------|-------------------|----------------|--------------------|-------------|----------------------|
| 010000 GENERAL CONDITIONS | | | | | | | |
| | Site Superentendant | 45 u | \$126,000 | | | \$2,600 \$ | 126,000.00 |
| | Project manager - assigned | 45 u | \$22,500 | | | \$500 \$ | 22,500.00 |
| | Field Office - Trailer | 11 mths | \$13,200 | | | \$1,200 \$ | 13,200.00 |
| | Field engineering - surveying | 1 ls | \$10,000 | | | \$10,000 \$ | 10,000.00 |
| | Telephone / Computer equipment | 11 mths | \$1,760 | | | \$160 \$ | 1,760.00 |
| | CONSTRUCTION DEBRIS REMOVAL | 10 u | \$7,500 | | | \$750 \$ | 7,500.00 |
| | CONTINUOUS CLEANING ALLOWANCE | 200 HRS | \$13,600 | | | \$68.00 | \$13,600 |
| | TEMPORARY TOILETS | 11 mths | \$1,430 | | | \$130 \$ | 1,430.00 |
| | PROJECT SIGN | - u | \$0 | | | \$2,500 \$ | - |
| | TEMPORARY WATER | - mths | \$0 | | | \$0 \$ | - |
| | TEMPORARY POWER (see electrical) | - mths | \$0 | | | \$0 \$ | - |
| | SAFETY / OSHA | 11 mths | \$2,750 | | | \$250.00 \$ | 2,750.00 |
| | FINAL CLEANING SERVICE | 12,000 sf | \$4,560 | | | \$0.38 \$ | 4,560.00 |
| | TEMPORARY HEATING | 3 mths | \$15,000 | | | \$5,000 \$ | 15,000.00 |
| 10000 - General Requirements - Total: | | | | | | | \$ 218,300.00 |
| 020000 Selective Demolition | | | | | | | |
| 020200 | Interior demo | - sf | \$0 | | | \$2.00 | \$0 |
| 22000 - Demolition - total: | | | | | | | \$ - |
| 310000 EARTHWORK | | | | | | | |
| 310301 | Cleaning and Grubbing | 1 ls | \$15,000 | | | \$15,000 \$ | 15,000.00 |
| 310301.1 | Rock removal Allowance | 1 ls | \$5,000 | | | \$5,000 \$ | 5,000.00 |

| | | | | | | |
|--------|---|--------|----------|----------|----|-----------|
| | strip and stock pile top soil | 1 ls | \$8,000 | \$8,000 | \$ | 8,000.00 |
| 310302 | Erosion control | | | | | |
| | tracking pad | 1 ls | \$3,000 | \$3,000 | \$ | 3,000.00 |
| | silt fence | - lf | \$5,000 | \$5,000 | \$ | 5,000.00 |
| | inlet protection maintenance | - ls | \$2,500 | \$2,500 | \$ | 2,500.00 |
| 310303 | Security fencing | - lf | \$0 | \$0 | \$ | - |
| 310304 | Remove bituminous | - sf | \$0 | \$0 | \$ | - |
| 310305 | Earth work | 1 ls | \$75,000 | \$75,000 | \$ | 75,000.00 |
| | Structural fill at foot print for slab on grade | 650 cy | \$18,200 | \$28 | \$ | 18,200.00 |
| 310306 | Storm Systems / Detention system | 1 ls | \$40,000 | \$40,000 | \$ | 40,000.00 |
| 310307 | Sanity work | 1 ls | \$10,000 | \$10,000 | \$ | 10,000.00 |
| 310308 | New Water services 8" & 4" | 1 ls | \$10,000 | \$10,000 | \$ | 10,000.00 |
| 310309 | Site Concrete | 1 ls | \$25,000 | \$25,000 | \$ | 25,000.00 |
| 310310 | New Bit. Paving & Curbs | 1 ls | \$45,000 | \$45,000 | \$ | 45,000.00 |
| 310312 | Landscaping and seeding | 1 ls | \$18,000 | \$18,000 | \$ | 18,000.00 |

31000 - EARTHWORK - total: \$ 279,700.00

030000 CONCRETE WORK

| | | | | | | |
|--------|----------------------------|-----------|----------|-------|----|-----------|
| 030001 | Concrete Foundations | 320 lf | \$89,600 | \$280 | \$ | 89,600.00 |
| 032000 | Concretye slabs - 2 floors | 12,000 sf | \$96,000 | \$8 | \$ | 96,000.00 |

030000 - Concrete - Total: \$ 185,600.00

040000 MASONRY

| | | | | | | |
|--------|------------------------|----------|-----------|----------|----|------------|
| 040002 | Masonry elevator shaft | 1 ls | \$45,000 | \$45,000 | \$ | 45,000.00 |
| 040010 | Exterior Brick Veneer | 5,000 sf | \$160,000 | \$32 | \$ | 160,000.00 |

04000 MASONRY TOTAL: \$ 205,000.00

050000 STEEL WORK

| | | | | | | |
|--------|------------------------------|------|-----------|-----------|----|------------|
| 050001 | Structural Steel frame | 1 ls | \$180,000 | \$180,000 | \$ | 180,000.00 |
| 05500 | Misc. Metal stair / railings | 1 ls | \$60,000 | \$60,000 | \$ | 60,000.00 |

5000 - STEEL WORK: \$ 240,000.00

060000 WOOD AND PLASTIC

| | | | | | | |
|--------|------------------------------------|------|----------|----------|----|-----------|
| 060502 | ARCHITECTURAL CASEWORK (allowance) | 1 ls | \$40,000 | \$40,000 | \$ | 40,000.00 |
| 06052 | Exterior Trim | 1 ls | \$60,000 | \$60,000 | \$ | 60,000.00 |
| 060555 | Carpentry Misc. Blocking | 1 ls | \$15,000 | \$15,000 | \$ | 15,000.00 |

06000 - Woods and Plastic \$ 115,000.00

070000 THERMAL AND MOISTURE

| | | | | | | | |
|--------|----------------|----|--------|----------|---------|----|-----------|
| 070842 | FIRE SAFING | 1 | ls | \$4,000 | \$4,000 | \$ | 4,000.00 |
| 070920 | JOINT SEALANTS | 1 | ls | \$5,000 | \$5,000 | \$ | 5,000.00 |
| 070888 | Roof shingles | 80 | square | \$42,400 | \$530 | \$ | 42,400.00 |

07000 - Thermal and Moisture \$ 51,400.00

080000 DOORS / FRAMES / HARDWARE

| | | | | | | | |
|--------|--|----|----|----------|----------|--|-------------|
| 080110 | HOLLOW METAL FRAMES 3' | 25 | u | \$6,250 | \$250.00 | | \$6,250.00 |
| 080311 | ACCESS DOORS | 5 | u | \$775 | \$155 | | \$775.00 |
| 080466 | WOOD DOORS | 25 | U | \$18,750 | \$750 | | \$18,750.00 |
| 080467 | DOOR LABOR | 25 | U | \$6,875 | \$275 | | \$6,875.00 |
| 080710 | DOOR HARDWARE | 25 | u | \$7,500 | \$300 | | \$7,500.00 |
| 08760 | Interior glass partitions | 1 | ls | \$25,000 | \$25,000 | | \$25,000.00 |
| 08762 | Entry doors vestibule | 1 | ls | \$25,000 | \$25,000 | | \$25,000.00 |
| 080780 | Exterior windows - double hung in cold form openings | 50 | ls | \$90,000 | \$1,800 | | \$90,000.00 |
| 080800 | GLAZING /door infills | 3 | ls | \$9,000 | \$3,000 | | \$9,000.00 |

08710 - DOORS \$189,150.00

90000 FINISHES

| | | | | | | | |
|--------|----------------------------------|--------|----|---------------|------------|------|--------------|
| 090200 | GYPSUM BOARD systems | 1 | ls | \$ 190,000.00 | \$190,000 | \$ | 190,000.00 |
| 090512 | ACOUSTICAL PANEL CEILING SYSTEMS | 6,000 | ls | \$ 27,000.00 | \$4.50 | \$ | 27,000.00 |
| 090625 | Wall and floor Tile (toilets) | 4 | ls | \$ 18,000.00 | \$4,500.00 | \$ | 18,000.00 |
| 090650 | Vinyl flooring simulate wood | 5,500 | sf | \$ 44,000.00 | \$8.00 | \$ | 44,000.00 |
| 090680 | CARPET | 770 | sy | \$ 30,800.00 | \$40 | \$ | 30,800.00 |
| 090900 | PAINTING | 12,000 | sf | \$ 36,000.00 | \$ | 3.00 | \$ 36,000.00 |

9000 - FINISHES: \$ 345,800.00

100000 SPECIALTIES

| | | | | | | | |
|--------|-----------------------------------|---|----|----------|----------|----|------------|
| 100400 | SIGNAGE | 1 | ls | \$10,000 | \$10,000 | \$ | 8,000.00 |
| 100520 | FIRE PROTECTION DEVICES | 6 | ls | \$1,920 | \$320 | \$ | 1,920.00 |
| 100800 | TOILET AND BATH ACCESSORIES (H/C) | 4 | LS | \$4,800 | \$1,200 | | \$4,800.00 |

10000 - SPECIALTIES - TOTAL: \$ 14,720.00

110000 EQUIPMENT

| | | | | | | | |
|--------|--------------------|---|----|---------|-----|----|----------|
| 110005 | kitchen appliances | 1 | ls | \$8,000 | \$8 | \$ | 8,000.00 |
|--------|--------------------|---|----|---------|-----|----|----------|

11000 - EQUIPMENT - Total: \$ 8,000.00

120000 FURNISHINGS

| | | | | | | | | |
|--------|-------------------|----|----|----|-----------|------------|----|-----------|
| 122113 | Horizontal Blinds | 50 | sf | \$ | 11,000.00 | \$220.00 | \$ | 11,000.00 |
| 124816 | Entrance Mats | 1 | ls | \$ | 5,000.00 | \$5,000.00 | \$ | 5,000.00 |

12000 - Furnishings - Total: \$ 16,000.00

140000 CONVEYING SYSTEMS

140000 - CONVEYING SYSTEMS - Total: \$ 80,000.00

150000 SPRINKLER SYSTEM

| | | | | | | | | |
|--------|------------|--------|----|----|-----------|--------|----|-----------|
| 150001 | Sprinklers | 12,000 | sf | \$ | 84,000.00 | \$7.00 | \$ | 84,000.00 |
|--------|------------|--------|----|----|-----------|--------|----|-----------|

210000 -Fire Protection - Total: \$ 84,000.00

220000 PLUMBING

| | | | | | | | | |
|--------|----------|--------|----|--|-----------|---------|--|-----------|
| 220000 | PLUMBING | 12,000 | ls | | \$180,000 | \$15.00 | | \$180,000 |
|--------|----------|--------|----|--|-----------|---------|--|-----------|

220000 -Plumbing - Total: \$ 180,000.00

230000 HVAC

| | | | | | | | | |
|--------|--------------|--------|----|--|-----------|------|--|-----------|
| 230610 | HVAC PACKAGE | 12,000 | sf | | \$336,000 | \$28 | | \$336,000 |
|--------|--------------|--------|----|--|-----------|------|--|-----------|

15000 - Mechanical - Total: \$336,000.00

260000 Electrical

| | | | | | | | | |
|--------|-------------------|--------|----|--|-----------|------|--|-----------|
| 260001 | ELECTRICAL WORK | 12,000 | sf | | \$240,000 | \$20 | | \$240,000 |
| | Data / technology | 12,000 | ls | | \$48,000 | \$4 | | \$48,000 |

16000 - Electrical - Total: \$ 288,000.00

BUILDING - TOTAL 11,760 sf \$ 2,836,670.00

BOE- Madison Detention Basin

Construction Cost Estimate
Madison Middle School Detention Basin, Trumbull, CT

BOE # 1

7/10/2019
 BOE

Major and Minor Contract Items

| Item No. | Item | Unit | Quantity | Unit \$ | Total Cost |
|----------|-------------------------------------|------|----------|-------------|---------------|
| 1 | Clearing and Grubbing | Acre | 4 | \$5,000.00 | \$ 20,000.00 |
| 2 | Excavation existing pond | CY | 4,600 | \$25.00 | \$ 115,000.00 |
| 3 | Earth Excavation expanded pond area | CY | 17,000 | \$18.00 | \$ 306,000.00 |
| 4 | Outlet Control Structure | LS | 1 | \$25,000.00 | \$ 25,000.00 |
| 5 | Drainage Piping | LF | 100 | \$100.00 | \$ 10,000.00 |
| 6 | Rip Rap protection | CY | 300 | \$100.00 | \$ 30,000.00 |
| 7 | Chain Link fencing and gates | LS | 2,300 | \$50.00 | \$ 115,000.00 |
| 8 | Straw Wattle | LF | 100 | \$3.00 | \$ 300.00 |
| 9 | Silt Sack | Ea. | 5 | \$225.00 | \$ 1,125.00 |
| 10 | Geotextile Silt Fence | LF | 2,500 | \$3.00 | \$ 7,500.00 |
| 11 | Haybale Barrier | LF | 1,000 | \$3.00 | \$ 3,000.00 |
| 12 | Construction Entrance | SY | 450 | \$30.00 | \$ 13,500.00 |
| 13 | Cofferdam | LF | 100 | \$400.00 | \$ 40,000.00 |
| 14 | Erosion Control Blanket | SY | 5,000 | \$5.00 | \$ 25,000.00 |
| 15 | Topsoil & vegetative cover | SY | 17,000 | \$5.00 | \$ 85,000.00 |

| | | | | | |
|---|---|----|---------------|--|------------|
| A | Major Items Subtotal | | | | \$ 796,425 |
| B | Minor Items Subtotal | 10 | % of Line "A" | | \$ 79,643 |
| C | Major and Minor Contract Items Subtotal (A + B) | | | | \$ 876,068 |

Other Item Allowances

| | | | |
|-----------------------------------|-----|---------------|-----------|
| Clearing and Grubbing (see above) | 0 | % of Line "C" | \$ - |
| M & P of Traffic | 0.5 | % of Line "C" | \$ 4,380 |
| Mobilization | 5 | % of Line "C" | \$ 43,803 |
| Construction Staking | 2 | % of Line "C" | \$ 17,521 |

| | | | | | |
|---|---------------------------|--|--|--|------------|
| D | Other Items Subtotal | | | | \$ 65,704 |
| E | CONTRACT SUBTOTAL (C + D) | | | | \$ 941,772 |

Inflation Costs (Simple Method)

| | | | | |
|----------------------|--------------------|------|-------------|-----------|
| Date of Estimate | Jul-19 | | | |
| Anticipated Bid Date | Jan-20 | | | |
| Annual Inflation | 4% | | | |
| F | Inflation Subtotal | 2.0% | of Line "E" | \$ 18,835 |

| | | | | | |
|---|--|--|--|--|------------|
| G | TOTAL CONTRACT COST ESTIMATE (E + F) (Rounded to nearest \$1000) | | | | \$ 961,000 |
|---|--|--|--|--|------------|

LOT/CP Project Costs Summary

| | | |
|---|-----|---------------------|
| Contract Cost Estimate (Line "G") | | \$ 961,000 |
| Contingencies | 10% | \$ 96,100 |
| Incidentals | 10% | \$ 96,100 |
| Surveying, Engineering and Permits | 8% | \$ 76,880 |
| Construction Administration & Observation | 12% | \$ 115,320 |
| TOTAL PROJECT COST | | \$ 1,345,400 |

| | | |
|---------------------------------|------------|---------|
| CTDOT FUNDING COMMITMENT (DATE) | | \$ - |
| | DIFFERENCE | #DIV/0! |

"This is an engineer's Opinion of Probable Construction Cost (OPCC). Tighe & Bond has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the estimates of probable construction costs are made on the basis of the Tighe & Bond's professional judgment and experience. Tighe & Bond makes no guarantee nor warranty, expressed or implied, that the bids or the negotiated cost of the Work will not vary from this estimate of the Probable Construction Cost."

**BOE - Jane
Ryan Paving**

TOWN OF TRUMBULL
ENGINEERING DEPARTMENT
--- OPINION OF PROBABLE COST ---

BOE # 2

Project : Jane Ryan
Paving Restoration Project

Date: 7/9/2018
Estimate By: WCM
Checked By: _____

| ITEM NO. | ITEM DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|------------------------------|-------------------------------|------|----------|------------|----------------------|
| | Reclaiming | SY | 13,600 | 2.41 | \$ 32,776.00 |
| | Calcium Chloride | Gal | 2,720 | 1.42 | \$ 3,862.00 |
| | Binder Course (2") | tons | 1725 | 109.29 | \$ 188,525.25 |
| | Wear Course (2") | Tons | 1725 | 109.29 | \$ 188,525.25 |
| | Tack Coat | Gal | 1364 | 6.67 | \$ 9,097.88 |
| | Grass Restoration landscaping | SY | 3600 | 13.00 | \$ 46,800.00 |
| | ADA Signage | EA | 5 | 200.00 | \$ 1,000.00 |
| | Parking Stall Line Striping | EA | 68 | 20.00 | \$ 1,360.00 |
| | ADA Stalls | LF | 3 | 40.00 | \$ 120.00 |
| | Cross Walks & Stop Bars | EA | 2 | 200.00 | \$ 400.00 |
| | Line Striping | LF | 1293 | 0.40 | \$ 517.20 |
| | Replace Concrete Curb | LF | 3200 | 31.50 | \$ 100,800.00 |
| | Replace Concete Sidewalks | SF | 6500 | 11.01 | \$ 71,570.30 |
| | ADA Ramps | SF | 2800 | 18.58 | \$ 52,012.80 |
| | Ada Tactile | SF | 600 | 18.58 | \$ 11,145.60 |
| | Replace Asphalt Curb | LF | 450 | 9.00 | \$ 4,050.00 |
| | Replace binder | SF | 2500 | 4.36 | \$ 10,900.00 |
| UNIT PRICE SUBTOTAL = | | | | | \$ 723,462.28 |

ALLOWANCES

| | | | | | |
|-----------------------------|----|---|---------|-----------|----------------------|
| Pipe Video Inspection | | | | ALLOWANCE | \$ 12,000.00 |
| Drainage repairs | | | | ALLOWANCE | \$ 175,000.00 |
| CB Replacement | EA | 8 | 3500.00 | | \$ 28,000.00 |
| manhole | EA | 1 | 4500.00 | | \$ 4,500.00 |
| Lighting repairs | | | | | \$ 10,000.00 |
| ALLOWANCE SUBTOTAL = | | | | | \$ 229,500.00 |

UNIT PRICE + ALLOWANCE = \$ 952,962.28

LUMP SUM ITEMS

| | | | | | |
|----------------------------|--|--|--|--|---------------------|
| Inspection | | | | | \$ 52,000.00 |
| Layout | | | | | \$ 2,500.00 |
| Mobilization | | | | | \$ 4,200.00 |
| LUMP SUM SUBTOTAL = | | | | | \$ 58,700.00 |

SUBTOTAL -UNIT PRICE +ALLOWANCES+ LUMP SUM = \$ 1,011,662.28

CONTINGENCY AND INCIDENTALS

| | | | | | |
|---|--|--|--|--|------------------------|
| Contingency & Incidents (15% x (Unit Price + Allowances + Lump Sum)) | | | | | \$ 151,749.00 |
| TOTAL = | | | | | \$ 1,163,411.28 |

ADD 3% ESCALATION PER YEAR - IF COMPLETED IN 2021 = \$ 1,198,314.00

Long Hill Building Paving

**BOE # 4
OPTION 1**

Project :

**BoE - Long Hill @ 6254 Main St
Paving Restoration Project**

11/21/2019

Estimate By: TS

Checked By: _____

| ITEM NO. | ITEM DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|------------------------------|-----------------------------|------|----------|------------|------------------|
| | Milling (2401-7800 SY) | SY | 6,276 | \$3.48 | \$21,842 |
| | Grading | HRs | 40 | \$470.00 | \$18,800 |
| | Wear Course (2") | Ton | 979.1 | \$109.29 | \$107,008 |
| | Tack Coat | Gal | 828 | \$6.67 | \$5,526 |
| | Parking Stall Line Striping | EA | 80 | \$20.00 | \$1,600 |
| | ADA Signage | EA | 3 | \$200.00 | \$600 |
| | ADA Stalls | EA | 15 | \$40.00 | \$600 |
| | Wheel Stops | EA | 2 | \$85.00 | \$170 |
| | Cross Walks & Stop Bars | EA | 2 | \$75.00 | \$150 |
| UNIT PRICE SUBTOTAL = | | | | | \$156,296 |

ALLOWANCES

| | | | |
|-----------------------------|-----------|-----------|------------------|
| Drainage | ALLOWANCE | \$ | 75,000.00 |
| | ALLOWANCE | | |
| | | \$ | - |
| ALLOWANCE SUBTOTAL = | | \$ | 75,000.00 |

| | | | |
|---------------------------------|--|-----------|-------------------|
| UNIT PRICE + ALLOWANCE = | | \$ | 231,295.72 |
|---------------------------------|--|-----------|-------------------|

LUMP SUM ITEMS

| | | | |
|----------------------------|----|-----------|------------------|
| Design | \$ | 15,000.00 | |
| Inspection | \$ | 25,000.00 | |
| | | | |
| LUMP SUM SUBTOTAL = | | \$ | 40,000.00 |

| | | | |
|---|--|-----------|-------------------|
| SUBTOTAL -UNIT PRICE +ALLOWANCES+ LUMP SUM = | | \$ | 271,295.72 |
|---|--|-----------|-------------------|

CONTINGENCY AND INCIDENTALS

| | | | |
|---|--|-----------|-------------------|
| Contingency & Incidents (15% x (Unit Price + Allowances + Lump Sum)) | | \$ | 40,694.36 |
| TOTAL = | | \$ | 311,990.07 |

option 1

| | | | |
|--|--|-----------|------------------|
| ADD 5% ESCALATION PER YEAR - IF NOT COMPLETED IN 2020 = | | \$ | 15,600.00 |
|--|--|-----------|------------------|

Project :

BoE - Long Hill @ 6254 Main St
Paving Restoration Project

BOE # 4
Option 2

11/21/2019

Estimate By: TS
 Checked By: _____

| ITEM NO. | ITEM DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|----------|-------------------------------|------|----------|------------------------------|------------------|
| | Reclaiming | SY | 6,276 | \$2.41 | \$15,126 |
| | Calcium Chloride | Gal | 1,255 | \$1.48 | \$1,858 |
| | Grading | HRs | 40 | \$470.00 | \$18,800 |
| | Blinder Course (2") | Ton | 979.1 | \$109.29 | \$107,008 |
| | Wear Course (2") | Ton | 979.1 | \$109.29 | \$107,008 |
| | Tack Coat | Gal | 890 | \$6.67 | \$5,937 |
| | Concrete Curb | LF | 1,603 | \$5.18 | \$8,303 |
| | Grass Restoration landscaping | SY | 1,389 | \$13.00 | \$18,059 |
| | Parking Stall Line Striping | EA | 80 | \$20.00 | \$1,600 |
| | ADA Signage | EA | 3 | \$200.00 | \$600 |
| | ADA Stalls | EA | 15 | \$40.00 | \$600 |
| | Wheel Stops | EA | 2 | \$85.00 | \$170 |
| | Cross Walks & Stop Bars | EA | 2 | \$75.00 | \$150 |
| | | | | UNIT PRICE SUBTOTAL = | \$285,219 |

ALLOWANCES

| | | | |
|----------|-----------|---------------------------------|----------------------|
| Drainage | ALLOWANCE | \$ | 75,000.00 |
| | ALLOWANCE | | |
| | | \$ | - |
| | | ALLOWANCE SUBTOTAL = | \$ 75,000.00 |
| | | UNIT PRICE + ALLOWANCE = | \$ 360,218.87 |

LUMP SUM ITEMS

| | | |
|------------|----|---|
| Design | \$ | 15,000.00 |
| Inspection | \$ | 25,000.00 |
| | | |
| | | LUMP SUM SUBTOTAL = \$ 40,000.00 |

SUBTOTAL -UNIT PRICE +ALLOWANCES+ LUMP SUM = \$ 400,218.87

CONTINGENCY AND INCIDENTALS

| | | |
|---|----|------------------------------|
| Contingency & Incidents (15% x (Unit Price + Allowances + Lump Sum)) | \$ | 60,032.83 |
| | | TOTAL = \$ 460,251.70 |

Option 2

ADD 5% ESCALATION PER YEAR - IF NOT COMPLETED IN 2020 = \$ 23,013.00

**BOE - Bus
Garage Parking Lot**

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

DEPARTMENT

BOE - Bus Garage

Provide narrative to describe and justify the requested project and answer the following questions as applicable.
 The objective of this project is to add a new parking lot adjacent to the existing bus garage. The new parking lot will provide parking for employees. Currently the depot has inadequate and insufficient parking for staff; bus drivers park alongside Spring Hill Road and any where they are able to find a spot within the depot. This creates unsafe parking conditions and is highly inefficient as vehicles are spread out over many areas of the garage and public road.

Estimates are based on discussions with engineering consulting firms.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Bus Garage, Spring Hill Road.

Will this project necessitate staffing increases?

No.

What is the general plan and timeline for completion?

2020-2021

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|-----------------------------------|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Parking lot design and permitting | 30,000 | | | | | 30,000 |
| Parking lot construction | | 500,000 | | | | 500,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

BOE#3

BOE#3

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

CIP 2020 - 2024

Other - Engineering

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Colony Road

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Sediments have built up along the storm drainage discharge point at the intersection of Blackhouse and Colony road. This project would remove sediments along this area.

What existing facilities or conditions will be affected by the project? How will this project improve these?

This project will improve the drainage system in the vicinity of Colony Road and Blackhouse Road

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

AS shown below

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|-----------------------------------|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Colony Road sedimentation removal | | 387,402 | | | | 387,402 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Daniels Farm Road

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This project is intended to replace and/or add drainage systems along Daniels Farm Road. Various drainage pipes are corrugated metal pipe and are in need of replacement.

What existing facilities or conditions will be affected by the project? How will this project improve these?

The project will improve roadway surface stormwater runoff during a rainstorm.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Design 2019; Construction 2020-2021

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---|-----------------------|-----------|-----------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Daniels Farm Road - Drainage Improvements | | 1,510,000 | | | | 1,510,000 |
| Daniels Farm Road - Roadway Improvements | | | 2,159,990 | | | 2,159,990 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

Eng# 1
need esti

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Town Wide Bridges

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This project improves various bridges in the Town of Trumbull. These bridges are observed by the State of Connecticut as part of the State Bridge Inspection program. The State provides us with an inspection report.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Bridges included are on Brock Street, Old town Road, Old Mine Road and Old Dyke Road, Whitney.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

As shown below

Are there any outside funding sources, e.g., grants?

Potential State Grant for Old Town Road Bridge

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|--|-----------------------|-----------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Brock Street Bridge- Construction (first phase) | 120,000 | | | | | 120,000 |
| Brock Street Bridge -Design (second phase) | | 90,000 | | | | 90,000 |
| Brock Street Bridge - Construction (second phase) | | | 300,000 | | | |
| Old Town Road Bridge - Construction Inspections | | 1,051,737 | - | | | |
| Old Mine Road Bridge - Design/Construction/Inspections | | | 16,000 | | | 16,000 |
| Old Dike Road Bridge- Design/Construction/Inspections | | | 15,000 | | | 15,000 |
| Whitney Ave. Bridge- Design | | 17,000 | | | | 17,000 |
| Whitney Ave. Bridge- Construction | | | | 93,000 | | 93,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

need estim

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Old Town Road improvements

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This project is intended to provide complete streets implementation along various parts of Old Town Road.

What existing facilities or conditions will be affected by the project? How will this project improve these?

The intent of this project is to provide geometry improvements and potential non-vehicular modes of transportation.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

See below

Are there any outside funding sources, e.g., grants?

Potential state grants for roadway geometry type improvements.

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---|-----------------------|-----------|---------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Roadway Improvement/Design/Construction | - | 3,500,000 | | | | 3,500,000 |
| | | | | | | - |
| | | | | | | - |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Old Dike Road paving phase 2

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This is the 2nd phase of the Old Dike Road paving project. The first phase completed the drainage in 2019. This estimate is to pave the road.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Finish paving project on Old Dike Road.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2020

Are there any outside funding sources, e.g., grants?

no

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|------------------------------|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Old Dike Road paving Phase 2 | 356,234 | | | | | 356,234 |
| | | | | | | - |
| | | | | | | - |

Eng# 3

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

**Engineering - Hedgehog, Harvest Hill and Daniels Farm
Culverts**

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Existing culverts need repairs. One overtopped during floods in 2018 that caused Daniels Farm Road to be closed to emergency vehicles. Upstream and downstream properties were also affected. The culvert collects runoff from Hillcrest Middle School and the surrounding neighborhoods.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Daniels Farm roads culverts (Box Culvert on Daniels Farm Road at Hedgehog) and 30in culvert on Daniels Farm road approximately 750ft north of the intersection with Hedgehog Road.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2021-2023

Are there any outside funding sources, e.g., grants?

no

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|--|-----------------------|-----------|---------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Daniels Farm Road culverts (box culvert & 30in culvert) - design | 161,000 | | | | | 161,000 |
| Hedgehog/Harvest Hill/Daniels Farm Road culverts - Construction | | 2,000,000 | | | | 2,000,000 |
| | | | | | | - |

Eng# 4

Eng# 4 (partial)

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Strobel Road sidewalks

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This project will consist of adding NEW sidewalks from the most eastern driveway of THS to Booth Hill Road. The sidewalk will be approximately 5,430LF in length. There is a strong community demand for this project.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Strobel Road sidewalks from THS to Booth Hill Road.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2022-2023

Are there any outside funding sources, e.g., grants?

no

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---------------------------------------|-----------------------|-----------|---------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Strobel Road sidewalks - design | 70,000 | | | | | 70,000 |
| Strobel Road sidewalks - construction | | 1,500,000 | | | | 1,500,000 |
| | | | | | | - |

Eng# 5

no estimate

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Park Street Culvert

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Culvert design for modifications to culvert on Park Avenue below Route 25. The existing culvert is an older structure at the lower end of the Belden Brook watershed near the confluence with the Pequonnock River. The culvert is shown in the FEMA Flood Insurance Study to be overtopped.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Park Street 42" corrugated culvert under Park St below the Rte. 25 expressway.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2021-2023

Are there any outside funding sources, e.g., grants?

no

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---------------------------------|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Park St. culvert - design | 91,200 | | | | | 91,200 |
| Park St. Culvert - construction | | 750,000 | | | | 750,000 |
| | | | | | | - |

Eng # 6

no estimate

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**Engineering
Daniels Farm Road
Drainage**

Old Dike Road Paving Phase 2

Eng # 3

| Item | Units | Unit Costs |
|-------------|---------|------------|
| 50.3 (CLAS) | Per Ton | \$ 104.37 |
| 50.375 (CL) | Per Ton | \$ 168.29 |

| Item | Units | Unit Costs |
|-------------|---------|------------|
| 20.5 (CLAS) | Per Ton | \$ 92.86 |
| 20.375 (CL) | Per Ton | \$ 97.37 |

| Item | Units | Unit Costs |
|-------------|---------|------------|
| 50.3 (CLAS) | Per Ton | \$ 94.88 |
| 50.375 (CL) | Per Ton | \$ 94.88 |

| Road Name | LF Per Side | 5y Area | Landscaped Area, SY | Repair Type | # of DRIVEWAY | Times of Driveway (HW) | 50.375 Tons | 50.375 Tons | 1" Shim Tons | LF of Curb | Track Cost (0-11/21) | 50.375 Cost | 1" Shim Cost | Cost Handover | Cost Track Cost | Escalation | Total Cost O&M | Calcium Chloride | Cost Milling | Mobilization | Cost Reclaiming | Total Cost Black & Boucher | Total Cost Per Road (Per LS) |
|--------------------------------|-------------|------------------|---------------------|-------------|---------------|------------------------|-------------|-------------|--------------|------------|----------------------|----------------------|---------------------|---------------|--------------------|---------------------|----------------------|------------------|---------------------|--------------------|-----------------|----------------------------|------------------------------|
| | | | | | | | | | | | | | | | | | | | | | | | |
| OLD DKE RD (Hemlock Beach Mtn) | 4,112 | 11,560.13 | 5,483 | M | 65 | 130 | 0 | 1526 | 783 | 2248.0 | 1271.6 | \$ 148,580.33 | \$ 81,014.91 | - | \$ 8,354.51 | \$ 15,648.61 | \$ 291,146.31 | - | \$ 28,500.13 | \$ 1,000.00 | - | \$ 29,500.13 | \$ 311,046.44 |
| Total | | 11,560.13 | 5,483 | | | | | | | | | \$ 148,580.33 | \$ 81,014.91 | | \$ 8,354.51 | \$ 15,648.61 | \$ 291,146.31 | | \$ 28,500.13 | \$ 1,000.00 | | \$ 29,500.13 | \$ 311,046.44 |

| Road Name | LF Per Side | 5y Area | Landscaped Area, SY | Repair Type | # of DRIVEWAY | Times of Driveway (HW) | 50.375 Tons | 50.375 Tons | 1" Shim Tons | LF of Curb | Track Cost (0-11/21) | 50.375 Cost | 1" Shim Cost | Cost Handover | Cost Track Cost | Escalation | Total Cost O&M | Calcium Chloride | Cost Milling | Mobilization | Cost Reclaiming | Total Cost Black & Boucher | Total Cost Per Road (Per LS) |
|----------------------------------|-------------|-----------------|---------------------|-------------|---------------|------------------------|-------------|-------------|--------------|------------|----------------------|---------------------|--------------------|---------------|------------------|--------------------|---------------------|------------------|--------------------|--------------|-----------------|----------------------------|------------------------------|
| | | | | | | | | | | | | | | | | | | | | | | | |
| HEMLOCK TRL (Old Dike-Primmerod) | 395 | 3,202.18 | 527 | M | 10 | 20 | 0 | 172 | 86 | 640.0 | 141.2 | \$ 16,716.71 | \$ 9,128.10 | - | \$ 941.09 | \$ 1,811.14 | \$ 31,932.29 | - | \$ 3,215.45 | - | - | \$ 3,215.45 | \$ 35,147.74 |
| Total | | 3,202.18 | 527 | | | | | 172 | 86 | | | \$ 16,716.71 | \$ 9,128.10 | | \$ 941.09 | \$ 1,811.14 | \$ 31,932.29 | | \$ 3,215.45 | | | \$ 3,215.45 | \$ 38,363.19 |

Hedgehog, Harvest Hill & Daniels Farm Roads Culverts

September 23, 2019

Mr. William Maurer, P.E., L.S.
Town Engineer
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

\$79,000 + \$82,000 = \$161,000 design for
Daniels Farms Culverts

**RE: Daniels Farm Road 30 Inch Culvert Replacement
Design Proposal and Budget**

Dear Mr. Maurer:

Luchs Consulting Engineers, LLC (Luchs) is pleased to submit the scope of work and budget for professional services needed to design modifications or replacement for the existing 30 inch culvert on Daniels Farm Road between Hedgehog Road and Inca Drive, and prepare the Contract Package for bidding.

The existing 30 inch culvert overtopped during flooding in September 2018, and closed Daniels Farm Road to emergency vehicles. Luchs will conduct the work as part of its on-going commitment to provide On-Call engineering services to the Town on a Time and Expense basis. This project will be funded under the Town Capital program.

The 30 inch culvert is located on Daniels Farm Road approximately 750 feet north of the intersection with Hedgehog Hill Road. The culvert collects runoff from Hillcrest Middle School and the surrounding neighborhood, and discharges it west toward Inca Drive. Area lies within the Belden Brook Watershed.

It is anticipated that approximately 50 feet to 75 feet of the watercourse may be impacted upstream and downstream of the culvert.

Proposed Improvements

Daniels Farm Road is a busy Collector Street in this area. It is anticipated that the culvert will need to be replaced or supplemented in stages to avoid traffic disruptions during construction.

We assume that the following options would be evaluated as part of this project:

1. Prepare a Culvert Assessment of existing conditions.
2. Evaluate methods to improve culvert capacity by
3. Analyze existing culvert hydraulics and prepare new culvert design using HydroCAD or other culvert design software. Multiple culvert configurations will be checked.

4. Potentially design new roadway drainage (catch basins and pipes) for lessened erosion and improved travel safety.
5. Develop water handling and construction phasing plans for proposed alternatives.
6. Prepare roadway plans with curbs and new guiderails, if necessary, installed in accordance with typical Town standards.
7. Provide signing and pavement markings along Daniels Farm Road.
8. Seed areas disturbed during construction.

Design Services

Luchs will provide professional engineering design services to the Town of Trumbull for this project meeting the Town of Trumbull, ConnDOT, AASHTO and generally accepted design practices.

As detailed in the attached manhour matrix, Luchs work will follow the following phases:

- I. Preparation of Preliminary Design (30%)
- II. Preparation of Final Design and Contract Plans, Specifications and Estimate (PS&E)
- III. Construction Phase Services (To Be Determined)

The following assumptions were made in the preparation of the scope and budget:

- Luchs will engage a Certified Soils Scientist to delineate inland wetlands along the watercourse and prepare a report suitable for permit submissions.
- Luchs will conduct all survey tasks including all necessary topographic and property surveys.
- Luchs will prepare Property Maps that may be needed for Proposed Grading and Drainage Easements.
- Luchs will engage a Geotechnical Engineer to oversee soil borings and prepare a report of the underlying soils and bedrock at the culvert location.
- Luchs would prepare support information for a Trumbull Planning and Zoning Meeting (if necessary) and a Trumbull Inland Wetlands Meeting. The Trumbull Engineering Department would prepare the actual application.
- The Maintenance & Protection of Traffic measures would use alternating one-way traffic to maintain access when the culvert is being upgraded. Probably one side of the culvert would be disturbed at any one time.
- The proposed culvert modification will be designed with a match existing culvert inverts and wing walls, where possible. Survey of the stream would be limited to immediately upstream and downstream (50'-75').
- One Public Information Meeting is anticipated. Luchs will prepare presentation material and present the project to the public.
- FEMA Flood Study Flows will be used for design hydrology.

**Daniels Farm Road 30 Inch Culvert Replacement
Scope of Work and Budget**

September 23, 2019

Page 3 of 4

- A standard culvert analysis will be prepared in accordance with FHWA Hydraulic Design Series Number 5 (HDS5), Hydraulic Design of Highway Culverts.
- Up to Three (3) Easement Maps are proposed.
- It is assumed that the following tasks will not be required:
 - Traffic crash data collection and analysis.
 - CT DEEP or Army Corps Permits.
 - HEC-RAS analysis of Belden Brook.
 - FEMA Letter of Map Revision.
 - Construction Stormwater Permit (DEEP).
 - Hazardous Material identification or remediation.
 - Intersection re-grading of Hedgehog Road.
 - Calculation of Service Life of Proposed Improvements.
- The Town will provide the Front End of the Final Bid Specifications Package.
- The project will be administered and reviewed by the Town.

Deliverables

- Existing Topographic and Property Survey
- Soils Scientist's Report and Wetland Delineation
- Culvert Condition Survey
- Soil Borings and Geotechnical Report
- Grading and Drainage Easement Maps and Legal Descriptions
- Road Plan and Profile
- Culvert Plan and Profile
- Culvert Details
- Roadway Grading and Drainage Plan
- Drainage Details
- Sediment and Erosion Control Plan
- Sediment and Erosion Control Details
- Paving and Guiderail Details
- Utility Plan and Details for coordination
- Water Handling Plan
- Maintenance and Protection of Traffic Plan
- Design Report
- Quantity Estimates
- Cost Estimates
- Written Technical Specifications
- Bid Form

Budget Proposal

Luchs Consulting Engineers, LLC will perform these services on a Time and Expense basis in accordance with the conditions of RFP # 6227, as detailed below:

**Daniels Farm Road 30 Inch Culvert Replacement
Scope of Work and Budget**

**September 23, 2019
Page 4 of 4**

| | |
|--------------------------------|-----------|
| I. Survey | \$ 6,700 |
| II. Preliminary Design | \$ 18,300 |
| III. Final Design | \$ 33,600 |
| IV. Bid Document Preparation | \$ 5,700 |
| V. Environmental Permitting | \$ 8,400 |
| VI. Geotechnical Investigation | \$ 8,500 |

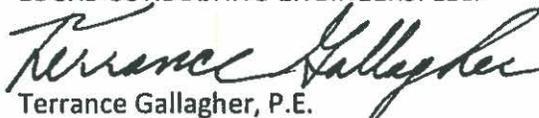
TOTAL

\$ 81,200

We are looking forward to starting work on this interesting project and working with you and your staff on its successful completion.

Should you have any questions or require additional information, please call me at (203) 379-0320 Ext 242.

Sincerely,
LUCHS CONSULTING ENGINEERS. LLC.


Terrance Gallagher, P.E.
Senior Civil Engineer

TG:Q:\Marketing\Luchs Marketing\RFQs\Trumbull - Daniels Farm Rd Culvert #2\Proposal\PROP Daniels Farm Rd Culvert 30 In 9-23-19.docx

September 23, 2019

Mr. William Maurer, P.E., L.S.
Town Engineer
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

**RE: Daniels Farm Road Box Culvert Modification
Design Proposal and Budget**

Dear Mr. Maurer:

Luchs Consulting Engineers, LLC (Luchs) is pleased to submit the scope of work and budget for professional services needed to design modifications to existing 8 foot x 3 foot box culvert on Daniels Farm Road at Hedgehog Road, and prepare the Contract Package for bidding.

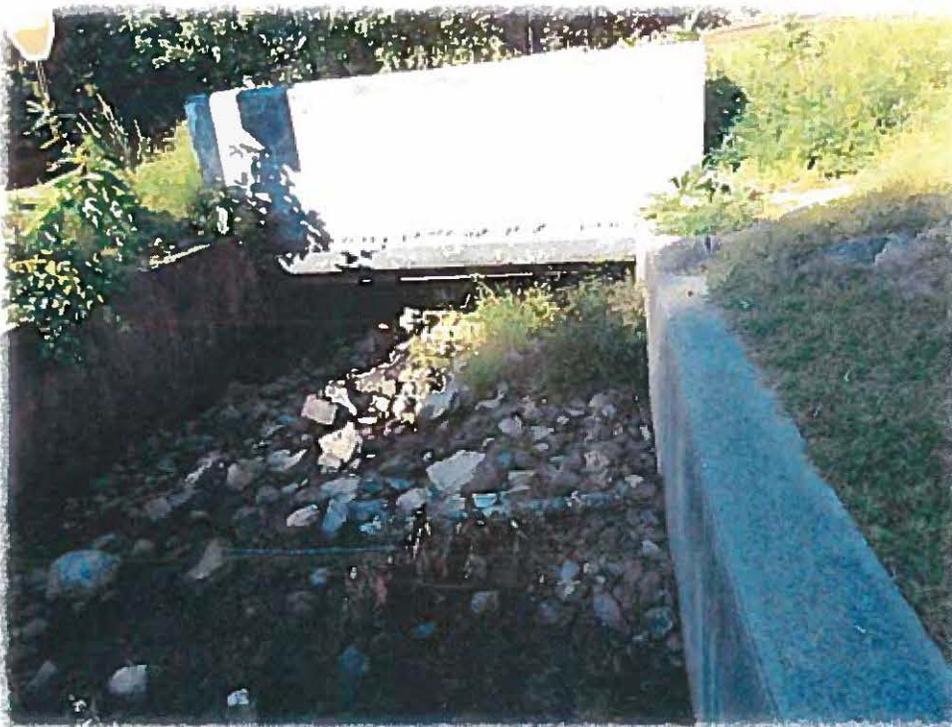


Figure 1 Daniels Farm Road Box Culvert at Hedgehog Road – Upstream Headwall

The existing 8 foot x 3 foot concrete box culvert overtopped during flooding in September 2018, and closed Daniels Farm Road to emergency vehicles. Upstream and downstream properties were also impacted by the flooding, and the Trumbull Department of Public Works has done partial stabilization of the upstream channel. Luchs will conduct the work as part of its on-

**Daniels Farm Road Box Culvert Improvements
Scope of Work and Budget**

September 23, 2019

Page 2 of 5

going commitment to provide On-Call engineering services to the Town on a Time and Expense basis. This project will be funded under the Town Capital program.

The 8 foot x 3 foot box culvert is located near the intersection with Hedgehog Hill Road. The box culvert was reconstructed in 2005, but with limited downstream channel improvements. Belden Brook takes a sharp left hand turn immediately below the box culvert, which may be creating a significant flow restriction that is eroding the banks on the downstream property and limiting the hydraulic capacity of the culvert. Portions of the upstream channel are also continuing to erode which is washing material into the box culvert inlet. The height of the box culvert is also limited by a natural gas pipeline that is mounted to the inlet headwall.



Figure 2 Downstream culvert outlet with eroded stream bank

It is anticipated that approximately 200-300 linear feet of Belden Brook may be impacted upstream and downstream of the culvert. The Daniels Farm Road culvert is also part of the mapped FEMA Floodplain.

Proposed Improvements

Daniels Farm Road is a busy Collector Street in this area. In order to avoid traffic disruptions the key focus of this study will be to determine if the flood carrying capacity of the culvert can be significantly improved by making improvements to the existing culvert and channel rather

**Daniels Farm Road Box Culvert Improvements
Scope of Work and Budget****September 23, 2019
Page 3 of 5**

that replacing the entire culvert. The culvert was reconstructed in 2005, and has concrete wing walls that are pinned to ledge on the downstream side along the road R.O.W..

We assume that the following options would be evaluated as part of this project:

1. Prepare a Culvert Assessment of existing conditions.
2. Evaluate methods to improve culvert capacity by
 - a. Improving outlet conditions by widening the channel and creating a more gradual transition downstream.
 - b. Removing rock outcrops inside the culvert that may be trapping debris and limiting hydraulic capacity.
 - c. Improving the culvert inlet, and possibly relocating the gas main.
 - d. Improving the upstream channel and armoring the bed with larger stone to limit debris clogging.
3. Analyze existing culvert hydraulics and prepare new culvert design using HydroCAD or other culvert design software. Multiple culvert configurations will be checked.
4. Potentially design new roadway drainage (catch basins and pipes) at the intersection for lessened erosion and improved travel safety.
5. Develop water handling and construction phasing plans for proposed alternatives.
6. Prepare roadway plans with curbs and new guiderails, if necessary, installed in accordance with typical Town standards.
7. Provide signing and pavement markings along Daniels Farm Road and the intersection with Hedgehog Hill Road.
8. Seed areas disturbed during construction.

Design Services

Luchs will provide professional engineering design services to the Town of Trumbull for this project meeting the Town of Trumbull, ConnDOT, AASHTO and generally accepted design practices.

As detailed in the attached manhour matrix, Luchs work will follow the following phases:

- I. Preparation of Preliminary Design (30%)
- II. Preparation of Final Design and Contract Plans, Specifications and Estimate (PS&E)
- III. Construction Phase Services (To Be Determined)

The following assumptions were made in the preparation of the scope and budget:

- Luchs will engage a Certified Soils Scientist to delineate inland wetlands along the Belden Brook and prepare a report suitable for permit submissions.
- Luchs will conduct all survey tasks including all necessary topographic and property surveys.

**Daniels Farm Road Box Culvert Improvements
Scope of Work and Budget**

September 23, 2019

Page 4 of 5

- Luchs will prepare Property Maps (assumed 3) that may be needed for Proposed Grading and Drainage Easements.
- At this time a Geotechnical Investigation is not proposed due to the visible ledge along the stream bed downstream of the culvert.
- Luchs would prepare support information for a Trumbull Planning and Zoning Meeting (if necessary) and a Trumbull Inland Wetlands Meeting. The Trumbull Engineering Department would prepare the actual application.
- The Maintenance & Protection of Traffic measures would use alternating one-way traffic to maintain access for residents when the culvert is being modified. Probably one side of the culvert would be disturbed at any one time.
- The proposed culvert modification will be designed with a match existing culvert inverts and wing walls, where possible. Survey of the stream would be limited to immediately upstream and downstream (100-150').
- One Public Information Meeting is anticipated. Luchs will prepare presentation material and present the project to the public.
- FEMA Flood Study Flows will be used for design hydrology.
- A standard culvert analysis will be prepared in accordance with FHWA Hydraulic Design Series Number 5 (HDS5), Hydraulic Design of Highway Culverts.
- Up to Three (3) Easement Maps are proposed.
- It is assumed that the following tasks will not be required:
 - Traffic crash data collection and analysis.
 - CT DEEP or Army Corps Permits.
 - HEC-RAS analysis of Belden Brook.
 - FEMA Letter of Map Revision.
 - Construction Stormwater Permit (DEEP).
 - Hazardous Material identification or remediation.
 - Intersection re-grading of Hedgehog Road.
 - Calculation of Service Life of Proposed Improvements.
- The Town will provide the Front End of the Final Bid Specifications Package.
- The project will be administered and reviewed by the Town.

Deliverables

- Existing Topographic and Property Survey
- Soils Scientist's Report and Wetland Delineation
- Culvert Condition Survey
- Grading and Drainage Easement Maps and Legal Descriptions
- Road Plan and Profile
- Culvert Plan and Profile
- Culvert Details
- Roadway Grading and Drainage Plan
- Drainage Details
- Sediment and Erosion Control Plan

**Daniels Farm Road Box Culvert Improvements
Scope of Work and Budget**

**September 23, 2019
Page 5 of 5**

- Sediment and Erosion Control Details
- Paving and Guiderail Details
- Utility Plan and Details for coordination
- Water Handling Plan
- Maintenance and Protection of Traffic Plan
- Design Report
- Quantity Estimates
- Cost Estimates
- Written Technical Specifications
- Bid Form

Budget Proposal

Luchs Consulting Engineers, LLC will perform these services on a Time and Expense basis in accordance with the conditions of RFP # 6227, as detailed below:

| | |
|--------------------------------|-----------|
| I. Survey | \$ 6,700 |
| II. Preliminary Design | \$ 19,800 |
| III. Final Design | \$ 35,200 |
| IV. Bid Document Preparation | \$ 7,900 |
| V. Environmental Permitting | \$ 9,400 |
| VI. Geotechnical Investigation | \$ 0 |

TOTAL **\$ 79,000**

We are looking forward to starting work on this interesting project and working with you and your staff on its successful completion.

Should you have any questions or require additional information, please call me at (203) 379-0320 Ext 242.

Sincerely,
LUCHS CONSULTING ENGINEERS. LLC.



Terrance Gallagher, P.E.
Senior Civil Engineer

Eng #4 Construction for ONE culvert at Harvest Hill.
 This is part of the \$2M request for construction of all 3 culverts

| Luchs Consulting Engineers, LLC | | | | | |
|--|---|-------|----------|-------------|-----------|
| Harvest Hill Culvert Replacement TRUMBULL, CONNECTICUT 19008 Preliminary Design Cost Estimate - Alternative SP-1C: 8'x4' Box Culvert 9-23-19 | | | | | |
| ITEM No. | ITEM DESCRIPTION | UNITS | QUANTITY | UNIT PRICE | AMOUNT |
| 0100072 | A Removal and Disposal of Underground Tanks | EA. | 0 | \$7,500.00 | \$0 |
| 0201001 | Clearing and Grubbing | LS | 1 | \$15,000.00 | \$15,000 |
| 0201199 | A Remove and Reset Fence | L.F. | 0 | \$70.00 | \$0 |
| 0202000 | Earth Excavation | C.Y. | 420 | \$13.50 | \$5,670 |
| 0202100 | Rock Excavation | C.Y. | 100 | \$50.00 | \$5,000 |
| 0202310 | A Excavation and Disposal of Contaminated Material | C.Y. | 20 | \$150.00 | \$3,000 |
| 0202529 | Cut Bituminous Concrete Pavement | L.F. | 65 | \$3.00 | \$195 |
| 0202596 | A Reset Stone Pillar | EA. | 0 | \$3,000.00 | \$0 |
| 0203000 | Structure Excavation - Earth (Complete) | C.Y. | 27 | \$20.00 | \$540 |
| 0204001 | A Cofferdam and Dewatering | L.F. | 50 | \$300.00 | \$15,000 |
| 0204401 | A Handling Water (Site No.1) | LS | 1 | \$30,000.00 | \$30,000 |
| 0205001 | Trench Excavation 0-4' Deep | C.Y. | 0 | \$12.00 | \$0 |
| 0205003 | Trench Excavation 0-10' Deep | C.Y. | 60 | \$18.00 | \$1,080 |
| 0205004 | Rock in Trench Excavation 0-10' Deep | C.Y. | 10 | \$95.00 | \$950 |
| 0205005 | Trench Excavation 0-15' Deep | C.Y. | 25 | \$20.00 | \$500 |
| 0205006 | Rock in Trench Excavation 0-15' Deep | C.Y. | 10 | \$200.00 | \$2,000 |
| 0209001 | Formation of Subgrade | S.Y. | 245 | \$2.00 | \$490 |
| 0213001 | Granular Fill | C.Y. | 25 | \$54.00 | \$1,350 |
| 0213051 | A Gravel Streambed Material | C.Y. | 15 | \$85.00 | \$1,275 |
| 0216000 | Pervious Structure Backfill | C.Y. | 95 | \$50.00 | \$4,750 |
| 0219001 | Sedimentation Control System | L.F. | 220 | \$4.00 | \$880 |
| 0219002 | Sedimentation Control Hay Bale System | L.F. | 50 | \$7.00 | \$350 |
| 0219004 | A Storm Water Pollution Controls | LS | 1 | \$5,000.00 | \$5,000 |
| 0219011 | Sedimentation Control System at Catch Basin | EA. | 3 | \$300.00 | \$900 |
| 0304002 | Processed Aggregate Base | C.Y. | 60 | \$60.00 | \$3,600 |
| 0406002 | A Temporary Pavement | S.Y. | 2,200 | \$32.00 | \$70,400 |
| 0406010-1 | Bituminous Concrete Class 1 | TON | 30 | \$106.00 | \$3,180 |
| 0406010-2 | Bituminous Concrete Class 2 | TON | 30 | \$106.00 | \$3,180 |
| 0406010-4 | Bituminous Concrete Class 4 | TON | 60 | \$106.00 | \$6,360 |
| 0406173 | HMA S0.25 | TON | 0 | \$150.00 | \$0 |
| 0406236 | Material For Tack Coat | Gal | 50 | \$3.00 | \$150 |
| 0406303 | Sawing and Sealing Joints | L.F. | 70 | \$20.00 | \$1,400 |
| 0406999 | A Asphalt Adjustment Cost | EST. | 0 | \$20,000.00 | \$0 |
| 0507001 | Type "C" Catch Basin | EA. | 0 | \$2,800.00 | \$0 |
| 0507022 | Type "C" Catch Basin Double Gate Type II (4' Sump) | EA. | 0 | \$5,600.00 | \$0 |
| 0507026 | Type "C" Catch Basin (4' Sump) | EA. | 3 | \$3,400.00 | \$10,200 |
| 0507051 | Type "C" Catch Basin Over 10' Deep | EA. | 0 | \$3,400.00 | \$0 |
| 0507171 | A Hydrodynamic Separator (Site No. 1) | EA. | 0 | \$25,000.00 | \$0 |
| 0507601 | Manhole | EA. | 0 | \$3,500.00 | \$0 |
| 0507707 | Type "C" Catch Basin Double Gate Type II Over 10' Deep (4' Sump) | EA. | 0 | \$6,000.00 | \$0 |
| 0601000 | Class "A" Concrete | C.Y. | 80 | \$900.00 | \$72,000 |
| 0601217 | A 8' x 4.0' Precast Concrete Box Culvert | L.F. | 75 | \$1,200.00 | \$90,000 |
| 0602000 | Deformed Steel Bars | LB. | 4,500 | \$44.00 | \$198,000 |
| 0651001 | Bedding Material | C.Y. | 15 | \$44.00 | \$660 |
| 0651011 | 12" R.C. Pipes | L.F. | 0 | \$55.00 | \$0 |
| 0651012 | 15" R.C. Pipes | L.F. | 80 | \$60.00 | \$4,800 |
| 0651013 | 18" R.C. Pipes | L.F. | 0 | \$75.00 | \$0 |
| 0651015 | 24" R.C. Pipes | L.F. | 0 | \$125.00 | \$0 |
| 0651107 | 15" A.C.C.M. Pipe | L.F. | 0 | \$65.00 | \$0 |
| 0651717 | 12" Ductile Iron Pipe | L.F. | 0 | \$45.00 | \$0 |
| 0651743 | 6" Polyvinyl Chloride Pipe | L.F. | 10 | \$52.00 | \$520 |
| 0651744 | 4" Polyvinyl Chloride Pipe | L.F. | 0 | \$44.00 | \$0 |
| 0652010 | 15" R.C. Culvert End | EA. | 0 | \$900.00 | \$0 |
| 0653100 | Clean Existing Culvert - 12" to 42" Diameter | L.F. | 0 | \$12.00 | \$0 |
| 0703014 | A Rounded Riprap | C.Y. | 5 | \$150.00 | \$750 |
| 0707009 | A Membrane Waterproofing | S.Y. | 70 | \$65.00 | \$4,550 |
| 0708001 | Dampproofing | S.Y. | 20 | \$20.00 | \$400 |
| 0751900 | A 4" Edgedrain | L.F. | 0 | \$16.00 | \$0 |
| 0815001 | Bituminous Concrete Lip Curbing | L.F. | 120 | \$5.00 | \$600 |
| 0822001 | Temporary Precast Concrete Barrier Curb | L.F. | 100 | \$50.00 | \$5,000 |
| 0905006 | A Remove and Rebuild Existing Stone Wall | L.F. | 0 | \$75.00 | \$0 |
| 0905217 | A Stone Wall | L.F. | 0 | \$150.00 | \$0 |
| 0910300 | Metal Beam Rail (R-B MASH) | L.F. | 150 | \$25.00 | \$3,750 |

Eng# 4

Eng #4 Construction for ONE culvert at Harvest Hill.

This is part of the \$2M request for construction of all 3 culverts

| ITEM No. | ITEM DESCRIPTION | UNITS | QTY | UNIT PRICE | TOTAL PRICE |
|-----------|--|-------|-----|-------------|------------------|
| 0911923 | R-B End Anchorage - Type I | EA. | | | |
| 0913003 | 4' Polyvinyl Chloride Chain Link Fence | L.F. | | | |
| 0922501 | Bituminous Concrete Driveway | S.Y. | 0 | \$47.00 | \$0 |
| 0922503 | Gravel Driveway | S.Y. | 0 | \$50.00 | \$0 |
| 0939001 | Sweeping For Dust Control | HR | 20 | \$10.00 | \$200 |
| 0942001 | Calcium Chloride For Dust Control | TON | 2 | \$1,000.00 | \$2,000 |
| 0943001 | Water For Dust Control | M.GAL | 200 | \$1.50 | \$300 |
| 0944000 | Furnishing and Placing Topsoil | S.Y. | 150 | \$6.00 | \$900 |
| 0946001 | Liming | TON | 1 | \$600.00 | \$600 |
| 0949007 | Wetland Creation | S.Y. | 0 | \$22.00 | \$0 |
| 0949011 | Shore Juniper #3 CAN | EA. | 0 | \$40.00 | \$0 |
| 0949079 | Russian Cypress #3 CAN | EA. | 0 | \$40.00 | \$0 |
| 0949133 | Vaccinium Corymbosum, High Bush Blueberry 18"-24" HT. Contain | EA. | 24 | \$40.00 | \$960 |
| 0949139 | Flowering Silver Andromeda #6 CAN | EA. | 0 | \$40.00 | \$0 |
| 0949226 | Ilex Verticillata, Common Winterberry 18"-24" HT. B.B. | EA. | 24 | \$40.00 | \$960 |
| 0949341 | Clethra Alnifolia, Sweet Pepperbush 2'-3' | EA. | 0 | \$70.00 | \$0 |
| 0949358 | Prunus Serrulata Kwanzan-Kwanzan Cherry 2"-2.5" Cal B.B. | EA. | 0 | \$65.00 | \$0 |
| 0949394 | Blaauw's Pink Azalea Deer Resistant | EA. | 0 | \$40.00 | \$0 |
| 0949395 | Catawba Rhododendron Lilac-Rose Flower | EA. | 0 | \$40.00 | \$0 |
| 0949466 | Rose & Pink Double Knock Out #3 CAN | EA. | 0 | \$40.00 | \$0 |
| 0949602 | Juniperus Virginiana Eastern Red Cedar 6'-8" HT. B.B. | EA. | 0 | \$450.00 | \$0 |
| 0949630 | Pinus Strobus, White Pine 2"- 2.5" | EA. | 0 | \$450.00 | \$0 |
| | Cryptomeria | EA. | 0 | \$250.00 | \$0 |
| 0949724 | Stellar Dogwood 2"- 2.5" CAL B.B. | EA. | 0 | \$525.00 | \$0 |
| 0949827 | Acer Saccharinum, White Maple 2"- 2.5" CAL | EA. | 0 | \$500.00 | \$0 |
| 0949832 | Acer Rubrum Red Maple 2"-2.5" Cal B.B. | EA. | 6 | \$500.00 | \$3,000 |
| 0950010 | Temporary Seeding | S.Y. | 150 | \$0.70 | \$105 |
| 0950013 | Temporary Erosion Control Blankets | S.Y. | 50 | \$5.00 | \$250 |
| 0950015 | Erosion Control Matting | S.Y. | 50 | \$5.00 | \$250 |
| 0950019 A | Turf Establishment - Lawn | S.Y. | 150 | \$2.00 | \$300 |
| 0950025 A | Reset Landsape Edging | L.F. | 0 | \$15.00 | \$0 |
| 0950043 A | Wetland Grass Establishment | S.Y. | 0 | \$2.20 | \$0 |
| 0952051 A | Control and Removal of Invasive Vegetation | S.Y. | 0 | \$7.00 | \$0 |
| 0969062 A | Construction Field Office, Medium | MO | 6 | \$2,500.00 | \$15,000 |
| 0970006 | Trafficperson (Municipal Police Officer) | EST. | 1 | \$12,000.00 | \$12,000 |
| 0970007 | Trafficperson (Uniformed Flagger) | HR | 40 | \$55.00 | \$2,200 |
| 0971001 A | Maintenance and Protection of Traffic | LS | 1 | \$20,000.00 | \$20,000 |
| 0975004 | Mobilization and Project Close Out | LS | 1 | \$20,000.00 | \$20,000 |
| 0976002 | Barricade Warning Lights - High Intensity | DAY | 90 | \$1.00 | \$90 |
| 0977001 | Traffic Cone | EA. | 40 | \$50.00 | \$2,000 |
| 0978002 | Traffic Drum | EA. | 20 | \$75.00 | \$1,500 |
| 0979003 | Construction Barricade - Type III | EA. | 6 | \$140.00 | \$840 |
| 0980001 | Construction Staking (1%+/-) | LS | 1 | \$15,000.00 | \$15,000 |
| 0981101 A | Opposing Traffic Lane Divider | EA. | 0 | \$120.00 | \$0 |
| 1206023 A | Removal and Relocation of Existing Signs | LS | 1 | \$500.00 | \$500 |
| 1208931 A | Sign Face Sheet Aluminum (Type IX Retroreflective Sheeting) | S.F. | 15 | \$50.00 | \$750 |
| 1208932 A | Sign Face Sheet Aluminum (Type IV Retroreflective Sheeting) | S.F. | 5 | \$40.00 | \$200 |
| 1209114 | Hot Applied Painted Pavement Marking -4" Yellow | L.F. | 100 | \$0.20 | \$20 |
| 1209131 | Hot Applied Painted Legend, Arrows and Markings | S.F. | 0 | \$4.00 | \$0 |
| 1210101 | 4" White Type I Epoxy Resin Pavement. Markings | L.F. | 100 | \$0.50 | \$50 |
| 1210102 | 4" Yellow Type I Epoxy Resin Pavement. Markings | L.F. | 100 | \$0.50 | \$50 |
| 1210105 | Epoxy Resin Pavement, Markings, Symbols And Legends | S.F. | 25 | \$4.00 | \$100 |
| 1220027 | Construction Signs | S.F. | 200 | \$12.00 | \$2,400 |
| 1302051 A | Reset Valve Box (Water Main) | EA. | 0 | \$200.00 | \$0 |
| 1700001 A | Service Connections | EST. | 0 | \$50,000.00 | \$0 |
| | SUBTOTAL PARTICIPATING CONTRACT ITEMS | | | | \$681,955 |
| | Contingencies (20%+/-) | LS | 1 | | \$136,391 |
| | Incidental (10%+/-) | LS | 1 | | \$68,196 |
| | TOTAL PARTICIPATING CONSTRUCTION COST | | | | \$886,542 |
| | BID ALTERNATE NO.1 (NON_PARTICIPATING) | | | | |
| 1301964 A | 18" Ductile Iron Casing with 12" Water Main | LS | 0 | \$15,000.00 | \$0 |
| | SUBTOTAL NON-PARTICIPATING CONTRACT ITEMS | | | | \$0 |
| | TOTAL PROJECT CONSTRUCTION COST | | | | \$886,542 |

NOTE: The Above Estimate Does Not Include Rights-of-Way Cost.

Item 0201001 - Clearing and Grubbing was for limited trees - 2 days

Strobel Road Sidewalks

29-0196-0A-P145
September 13, 2019

Mr. William Maurer
Town Engineer
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

1.5 m in 2021
const.

Re: **Proposal for Sidewalks along Strobel Road Design Services
Trumbull, Connecticut**

Dear Bill:

Tighe & Bond (T&B) understands that the Town of Trumbull (Town) would like to add sidewalks along Strobel Road. Currently, there is a sidewalk on the south side of Strobel Road along the High School property which will be rebuilt as 5-foot wide bituminous concrete sidewalk as part of the Strobel Road Reconstruction project.

This proposal will address construction new sidewalks from the most eastern driveway of the High School to Booth Hill Road. The proposed sidewalk would be approximately 5,430 linear feet in length and may need not be able to be placed continuously on one side of the roadway do to topographic limits, utility pole and tree interference, other landscape features and the willingness of property owners to agree to easements.

We understand that there is a strong community demand for this project, so we have included several public information meetings in our scope.

We have prepared the following scope of services for you to review:

Scope of Services

Task 1: Conceptual Design

1. Attend a project kickoff meeting to discuss the parameters of the project
2. Based on the parameters established at the of the kickoff meeting, prepare a conceptual layout of the proposed sidewalk. We will use the plans previously prepared for Strobel Road project as a base for this conceptual plan. The conceptual plan will include options for either side of the road.
3. Prepare an opinion of probable construction cost of the conceptual plans and options.
4. Meet with the Town to discuss the conceptual plans.
5. Finalize the conceptual plans based on the Towns review.
6. Prepare and present the project at a public information meeting. (see Task 6)

Task 2: Preliminary Design (30%)

1. Prepare Title Sheet, Existing Condition Plans and General Information Plan.
2. Prepare Layout Plans and Construction Plans detailing the construction associated with the sidewalk. We assume there will be 10-11 layout plans.

Tighe&Bond

3. Assess the need for retaining walls to support the sidewalk along cut or fill slopes. Develop a General Plan for the proposed retaining wall(s) layout. We have assumed the walls will be less than 5 feet in height and will be a segmental block type construction.
4. Prepare an Opinion of Probable Construction Cost (OPC) based on CTDOT Items and recent itemized cost data.
5. Meet with the Town to discuss the conceptual plans.
6. Prepare and present the project at a public information meeting. (see Task 6)

Task 3: Semi-Final Design (90%)

1. Update general information drawings to address design review comments.
2. Update the layout plan and construction plan to reflect preliminary design review comments and to include the detail required at the Final Design submission level. The plans will include:
 - a. Cover Sheet
 - b. General notes and legends
 - c. Layout sheets
 - d. Maintenance and protection of traffic
 - e. Signing plans
 - f. Soil Erosion Control Plans
 - g. Cross-sections
 - h. Construction Details
3. Update the retaining wall general plan(s) illustrating the layout of the retaining wall. Develop limited design details to provide the Contractor with information to facilitate the design-build process.
4. Prepare special provisions based on Town of Trumbull standards.
5. Assemble the Standard Details drawings to support the design.
6. Update the opinion of probable construction cost.
7. Prepare and present the project at a public information meeting. (see Task 6)

Task 4: Final Design - Construction Documents (100%)

Following the completion of the Final Design and approval by the Town and CTDOT, Tighe & Bond will prepare final Construction Documents to facilitate procurement of a Contractor by the Town. The Construction Documents will include construction drawings and special provisions that address the Final Design review comments and describe the proposed work. The following tasks are provided to prepare the Construction Documents:

1. Prepare final construction drawings that incorporate the Town and CTDOT comments on the Final Design submission.

2. Prepare the final special provisions that incorporate the Town and CTDOT comments on the Final Design submission.
3. Provide the bid-ready construction documents to the Town in PDF format to support the Town's procurement process.

Task 5: Utility Coordination

We will contact the existing utility companies to determine possible impacts from the proposed road construction. The utilities will include the following:

- Electric: United Illuminating
- Gas: Southern Connecticut Gas
- CATV: Charter Communications
- Telecommunications:
 - Frontier Communications of Connecticut
 - Fiber Technologies Network, LLC
 - Lighttower Fiber Networks
- Water: Aquarion Water Company of Connecticut

We will meet with the utility representative in the field to discuss the project and potential impacts of the existing utilities on the project and determine if relocations are necessary.

Task 6: Public Information Meetings and Land Use Board Meetings

Attend the following public information meetings throughout the course of the project. We will prepare meeting summaries documenting the results of the meetings, as necessary. We anticipate the following meetings:

- Public Information meeting at the conceptual design completion (assume 1)
- Public Information meeting at the 30% design completion (assume 1)
- Public Information meeting at the 90% design completion (assume 1)
- Trumbull Police Commission (for temporary Maintenance and Protection of Traffic and detours) (assume 1)
- Trumbull Planning & Zoning Commission (assume 2)
- Trumbull Inland Wetlands Commission (assume 2)

Task 7: Easement Assistance

We have assumed that the Town will take the lead in securing easements required for the sidewalk project and that would include meeting with the property owners, and preparing the required survey maps. It has been our experience that the Town may need technical assistance during the easement negotiation period such as the design engineer meeting with the property owners in the field to delineate the impacts of the easement.

Task 8: Bid Assistance (final scope to be determined after final approval)

Task 9: Construction Administration Services (final scope to be determined after final approval)

Task 10: Construction Observation Services (final scope to be determined after final approval)

Assumptions and Exclusions

In an effort to provide you with a reasonable budget for the limited requested services, we have prepared a detailed scope of services based upon our understanding of the project scope. The following section describes critical assumptions and exclusions used in the development of our fee proposal.

1. It is assumed that the Town will provide all surveying requirement for the design and preparation of easement maps.
2. It is assumed that no Traffic analyses will be required for this project.
3. The number of meetings is limited to the number specifically stated in this proposal. An amendment for additional meetings can be provided if requested.
4. Responses to additional rounds of Town comments not specifically stated in this proposal are excluded.
5. T&B will utilize CTDOT Form 817, special provisions or Town Standards for all construction.
6. The potential size and scope of the retaining wall structure(s) is assumed to be no more than five feet high and we have assumed that a proprietary modular block wall will be utilized to retain the cut or fill slope. The design of a cast in place reinforced concrete wall is not assumed in the fee estimate.

Tighe&Bond

Fee

Tighe & Bond will perform these services on a time and expense basis in accordance with the conditions of RFP#6227. Based on the scope of work described above, we recommend the following initial budgets:

| Task | Description of Work | Fee |
|------------------------------------|---|-----------------|
| 1 | Conceptual Design | \$8,350 |
| 2 | Preliminary Design (30%) | \$9,300 |
| 3 | Semi Final Design (90%) | \$14,700 |
| 4 | Final Design-Construction Documents (100%) | \$9,950 |
| 5 | Utility Coordination | \$8,350 |
| 6 | Public Information Meetings and Land Use Board Meetings | \$8,000 |
| 7 | Easement Assistance | \$6,750 |
| | Reimbursables expenses (mileage, printing/copies) | \$600 |
| Total Design Services | | \$66,000 |
| 8 | Bidding Assistance | TBD |
| 9 | Construction Administration | TBD |
| 10 | Construction Observation | TBD |
| Total Construction Services | | TBD |

Services performed by subcontractors, materials purchased directly for this project, and permitting fees will be invoiced at cost plus ten percent. In the event that the scope of work is increased for any reason, the limiting fee to complete the work shall be mutually revised by written amendment. Our previous Terms and Conditions are made part of this letter agreement.

We greatly appreciate the opportunity to continue providing services to the Town. If you should have any questions, please contact Fred at (203) 712-1123, or Dana at (203) 712-1122.

Sincerely,

TIGHE & BOND, INC.



Alfred J. Mascla, Jr., P.E.
Senior Project Manager



Dana C. Huff, P.E.
Vice President

Enclosure: LOE Spreadsheet



Park St. Culvert

September 23, 2019

Mr. William Maurer, P.E., L.S.
Town Engineer
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Eng # 6

**RE: Park Street Culvert Replacement
Design Proposal and Budget**

Dear Mr. Maurer:

Luchs Consulting Engineers, LLC (Luchs) is pleased to submit the scope of work and budget for professional services needed to design modifications to existing twin 42" CMP culvert on Park Street below Router 25, and prepare the Contract Package for bidding.



Figure 1 Park Street Culvert – Twin 42" CMPs – Upstream Headwall

The existing twin 42" Corrugated Metal Pipes (CMPs) convey Belden Brook under Park St. below the Rt. 25 Expressway. The culvert is an older structure at the lower end of the Belden Brook watershed near the confluence with the Pequonnock River. The culvert is shown in the FEMA Flood Insurance Study to be overtopped in storms exceeding the 10 Year Event. Luchs would

provide On-Call engineering services to the Town on a Time and Expense basis. This project will be funded under the Town Capital program.



Figure 2 Corroded Invert and Scour Hole inside CMP culvert.

One barrel of the twin 42" CMP culvert is severely corroded and has a large scour hole under the culvert. Over time this will continue to erode and potentially cut off the residents along the end of Park St. when the culvert finally fails.

It is anticipated that approximately 50-100 linear feet of Belden Brook may be impacted upstream and downstream of the culvert. The Park St. culvert is part of the mapped FEMA Floodplain.

Proposed Improvements

Park St. is a dead end residential road located West of Rt. 25. It is anticipated that given the current structural capacity of the culvert that some form of culvert replacement will be required.

We assume that the following options would be evaluated as part of this project:

1. Prepare a Culvert Assessment of existing conditions.
2. Evaluate methods to improve culvert capacity or replace the existing culvert.

Park St. Culvert Replacement
Scope of Work and Budget

September 23, 2019

Page 3 of 5

3. Analyze existing culvert hydraulics and prepare new culvert design using HydroCAD or other culvert design software. Multiple culvert configurations will be checked.
4. Potentially design new roadway drainage (catch basins and pipes) at the intersection for lessened erosion and improved travel safety.
5. Develop water handling and construction phasing plans for proposed alternatives.
6. Prepare roadway plans with curbs and new guiderails, if necessary, installed in accordance with typical Town standards.
7. Provide signing and pavement markings along Park Street.
8. Seed areas disturbed during construction.

Design Services

Luchs will provide professional engineering design services to the Town of Trumbull for this project meeting the Town of Trumbull, ConnDOT, AASHTO and generally accepted design practices.

As detailed in the attached manhour matrix, Luchs work will follow the following phases:

- I. Preparation of Preliminary Design (30%)
- II. Preparation of Final Design and Contract Plans, Specifications and Estimate (PS&E)
- III. Construction Phase Services (To Be Determined)

The following assumptions were made in the preparation of the scope and budget:

- Luchs will engage a Certified Soils Scientist to delineate inland wetlands along the Belden Brook and prepare a report suitable for permit submissions.
- Luchs will conduct all survey tasks including all necessary topographic and property surveys.
- Luchs will prepare Property Maps (assumed 2) that may be needed for Proposed Grading and Drainage Easements.
- Luchs will engage a Geotechnical Engineer to prepare two soil borings and provide design recommendations at the culvert.
- Luchs would prepare support information for a Trumbull Planning and Zoning Meeting (if necessary) and a Trumbull Inland Wetlands Meeting. The Trumbull Engineering Department would prepare the actual application.
- The Maintenance & Protection of Traffic measures would use alternating one-way traffic to maintain access for residents when the culvert is being modified. A temporary bypass may have to be created due to the narrow width of the road at that point.
- The proposed culvert modification will be designed with a match existing culvert inverts and wing walls. Survey of the stream would be limited to immediately upstream and downstream (50'-100').
- One Public Information Meeting is anticipated. Luchs will prepare presentation material and present the project to the public.

- FEMA Flood Study Flows will be used for design hydrology.
- A standard culvert analysis will be prepared in accordance with FHWA Hydraulic Design Series Number 5 (HDS5), Hydraulic Design of Highway Culverts.
- Up to Two (2) Easement Maps are proposed.
- It is assumed that the following tasks will not be required:
 - Traffic crash data collection and analysis.
 - CT DEEP or Army Corps Permits.
 - HEC-RAS analysis of Belden Brook.
 - FEMA Letter of Map Revision.
 - Construction Stormwater Permit (DEEP).
 - Hazardous Material identification or remediation.
 - Intersection re-grading of Hedgehog Road.
 - Calculation of Service Life of Proposed Improvements.
- The Town will provide the Front End of the Final Bid Specifications Package.
- The project will be administered and reviewed by the Town.

Deliverables

- Existing Topographic and Property Survey
- Soils Scientist's Report and Wetland Delineation
- Culvert Condition Survey
- Soil Borings and Geotechnical Report
- Grading and Drainage Easement Maps and Legal Descriptions
- Road Plan and Profile
- Culvert Plan and Profile
- Culvert Details
- Roadway Grading and Drainage Plan
- Drainage Details
- Sediment and Erosion Control Plan
- Sediment and Erosion Control Details
- Paving and Guiderail Details
- Utility Plan and Details for coordination
- Water Handling Plan
- Maintenance and Protection of Traffic Plan
- Design Report
- Quantity Estimates
- Cost Estimates
- Written Technical Specifications
- Bid Form

Budget Proposal

Luchs Consulting Engineers, LLC will perform these services on a Time and Expense basis in accordance with the conditions of RFP # 6227, as detailed below:

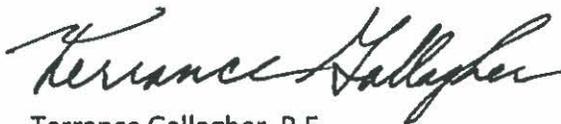
| | |
|--------------------------------|-----------|
| I. Survey | \$ 5,300 |
| II. Preliminary Design | \$ 23,600 |
| III. Final Design | \$ 36,300 |
| IV. Bid Document Preparation | \$ 7,900 |
| V. Environmental Permitting | \$ 10,500 |
| VI. Geotechnical Investigation | \$ 8,500 |

| | |
|--------------|------------------|
| TOTAL | \$ 92,100 |
|--------------|------------------|

We are looking forward to starting work on this important project for the Town of Trumbull and working with you and your staff on its successful completion.

Should you have any questions or require additional information, please call me at (203) 379-0320 Ext 242.

Sincerely,
LUCHS CONSULTING ENGINEERS. LLC.



Terrance Gallagher, P.E.
Senior Civil Engineer

TG:Q:\Marketing\Luchs Marketing\RFQs\Trumbull - Park St. Culvert\Proposal\PROP Park St. Culvert 9-23-19.docx

CIP 2020 - 2024

OTHER

**(Economic Development -
Engineering Projects**

Other - Econ. Development

Church Hill Road

E.D. #1 (Church Hill Rd.)



Prep'd Date 3/15/2017 By TAS
 Ch'kd Date 3/15/2017 By AJM
 Town of Trumbull, CT
 Funds _____
 Town No. _____
 Project No. 29-0196-99
 Sheet No. 1 of 1

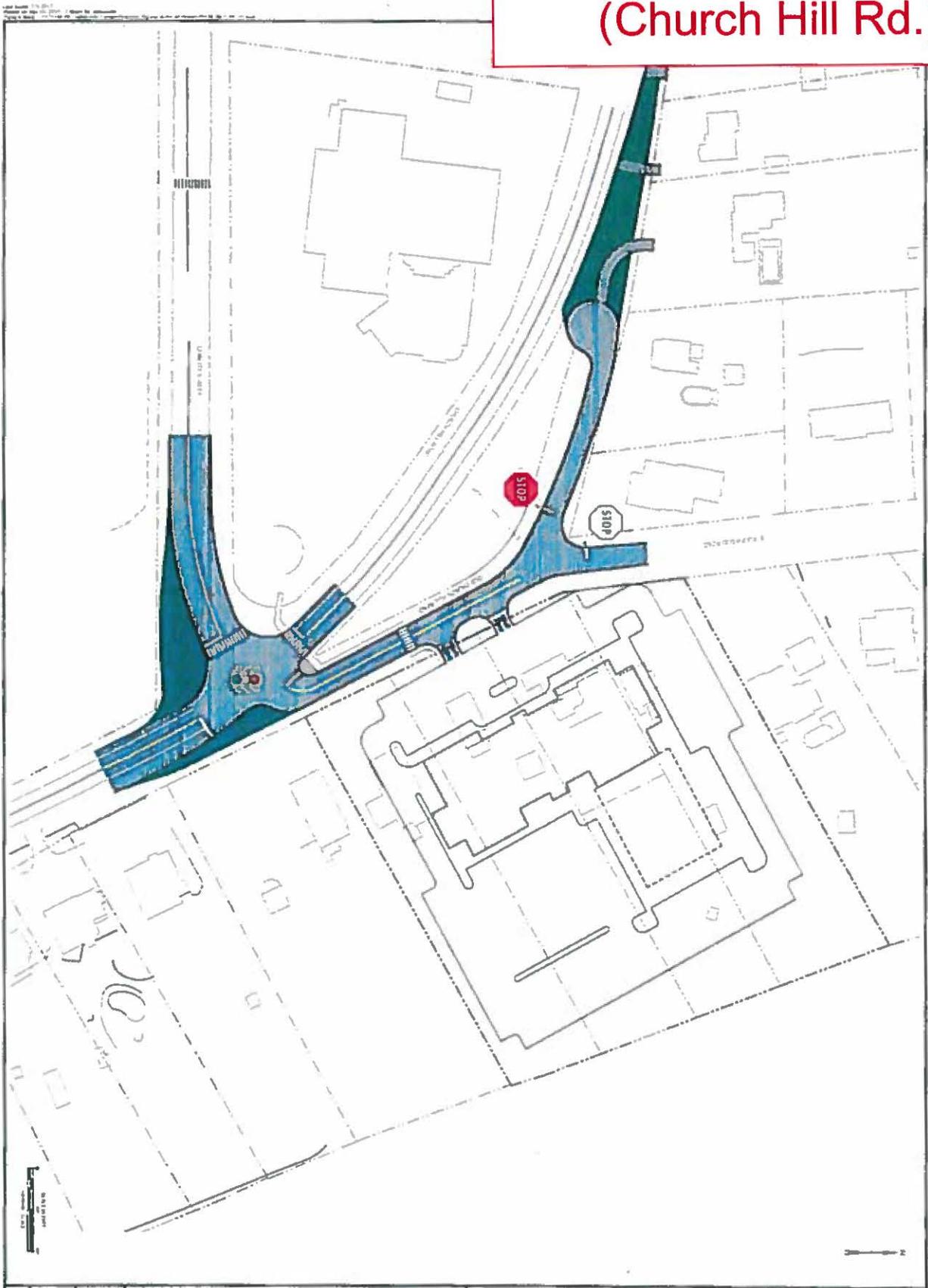
**Preliminary Opinion of Probable Cost
for the Construction of**

Project Description Proposed Community Center
Old Church Hill Rd, Trumbull, CT

**CONCEPT OFF-SITE ROADWAY IMPROVEMENTS
(SEE SHEET C1.01)**

| No. | Item | Unit | Quantity | Price | Amount |
|----------|--|--------|----------|--------------|------------------|
| 0202001 | Earth Excavation | CY | 170 | \$40.00 | \$6,800 |
| 0202101 | Rock Excavation | CY | 50 | \$200.00 | \$10,000 |
| 0202529 | Cut Bituminous Concrete Pavement | LF | 200 | \$4.00 | \$800 |
| 0202531 | Removal of Bituminous Concrete | CY | 190 | \$10.00 | \$1,900 |
| 0212001 | Subbase Material | CY | 130 | \$75.00 | \$9,750 |
| 0403869A | Reclaim Asphalt Pavement | SY | 3,930 | \$8.00 | \$31,440 |
| 0406170 | HMA S1.0 | Ton | 925 | \$100.00 | \$92,500 |
| 0406171 | HMA S0.5 | Ton | 930 | \$100.00 | \$93,000 |
| 0406267 | Milling of HMA | SY | 935 | \$2.50 | \$2,338 |
| 0406236 | Material for Tack Coat | Gal | 220 | \$100.00 | \$22,000 |
| 0507001 | Type "C" Catch Basin | Each | 7 | \$3,000.00 | \$21,000 |
| 0507021 | Type "C" Catch Basin Double Grate | Each | 4 | \$6,000.00 | \$24,000 |
| 0507656 | Storm Manhole | Each | 1 | \$3,500.00 | \$3,500 |
| 0507781 | Reset Manhole | Each | 3 | \$500.00 | \$1,500 |
| 0651012 | 15" RCP - Storm Drainage | LF | 300 | \$55.00 | \$16,500 |
| 0651746 | 12" PVC - Storm Drainage | LF | 700 | \$60.00 | \$42,000 |
| 0811002A | Bituminous Concrete Curb | LF | 2,360 | \$5.00 | \$11,800 |
| 0921001 | Concrete Sidewalk | SF | 2,150 | \$20.00 | \$43,000 |
| 0922501 | Bituminous Concrete Driveway | Ton | 60 | \$155.00 | \$9,300 |
| 0939001 | Sweeping for Dust Control | Hour | 100 | \$125.00 | \$12,500 |
| 0942001 | Calcium Chloride for Dust Control | Gal | 2,500 | \$1.30 | \$3,250 |
| 0943001 | Water For Dust Control | M. Gal | 1,000 | \$2.00 | \$2,000 |
| 0944002 | Furnishing and Placing of Topsoil | SY | 1,350 | \$5.00 | \$6,750 |
| 0950015 | Turf Establishment | SY | 1,350 | \$2.00 | \$2,700 |
| 0970006A | Traffic Person (Municipal Police Officer) | Hour | 1,280 | \$75.00 | \$96,000 |
| 1210101 | 4" White Epoxy Resin Pavement Marking | LF | 1480 | \$0.60 | \$888 |
| 1210102 | 4" Yellow Epoxy Resin Pavement Marking | LF | 2210 | \$0.60 | \$1,326 |
| 1210105 | Epoxy Resin Legend, Arrows & Markings | SF | 770 | \$5.00 | \$3,850 |
| | Traffic Signal | LS | 1 | \$225,000.00 | \$225,000 |
| | Landscaping | LS | 1 | \$30,000.00 | \$30,000 |
| | Subtotal | | | | \$827,392 |
| 0201001 | Clearing and Grubbing (3%) | LS | 1 | \$24,821.75 | \$24,822 |
| 0980000 | Construction Staking (2%) | LS | 1 | \$16,547.83 | \$16,548 |
| 0971001 | Maintenance and Protection of Traffic (4.0%) | LS | 1 | \$33,095.66 | \$33,096 |
| 0975002 | Mobilization (7.5%) | LS | 1 | \$62,054.36 | \$62,054 |
| | Subtotal | | | | 963,911 |
| 25% | Contingencies | | | | 240,978 |
| | CONSTRUCTION SUBTOTAL | | | | 1,204,889 |
| 6% | Construction Administration and Observation | | | | 72,293 |
| | CONSTRUCTION AND CA SUBTOTAL | | | | 1,278,000 |
| 12% | Engineering and Permitting | | | | 144,587 |
| | PROJECT TOTAL | | | | 1,423,000 |

**E.D. #1
(Church Hill Rd.)**



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|----------------------|--|---------------------------|--|-------------------------|--|--------------|--|-------------|--|------------|--|--------------|--|-----------|--|-----------------|--|-------------|--|---------------|--|------------|--|--------------------|--|------------|--|-------------|--|------------|--|--------------------|--|------------|--|-------------|--|------------|--|--------------------|--|------------|--|-------------|--|------------|--|
| <p>Tyhe&Band <small>newly independent from (and subsequent success)</small> 14000 S. State St. Atlanta, GA 30341 404.312.2100</p> | <p>Old Church Hill Road</p> <p>Proposed Community Center</p> <p>Framburg, CT</p> | <table border="1"> <tr> <td colspan="2">PROJECT TITLE</td> </tr> <tr> <td colspan="2">Proposed Community Center</td> </tr> <tr> <td colspan="2">PROJECT LOCATION</td> </tr> <tr> <td colspan="2">Framburg, CT</td> </tr> <tr> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">10/15/2010</td> </tr> <tr> <td colspan="2">SCALE</td> </tr> <tr> <td colspan="2">1" = 100'</td> </tr> <tr> <td colspan="2">DESIGNER</td> </tr> <tr> <td colspan="2">Tyhe & Band</td> </tr> <tr> <td colspan="2">CLIENT</td> </tr> <tr> <td colspan="2">[Redacted]</td> </tr> <tr> <td colspan="2">PROJECT NO.</td> </tr> <tr> <td colspan="2">[Redacted]</td> </tr> <tr> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">10/15/2010</td> </tr> <tr> <td colspan="2">PROJECT NO.</td> </tr> <tr> <td colspan="2">[Redacted]</td> </tr> <tr> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">10/15/2010</td> </tr> <tr> <td colspan="2">PROJECT NO.</td> </tr> <tr> <td colspan="2">[Redacted]</td> </tr> <tr> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">10/15/2010</td> </tr> </table> <p>ROADWAY IMPROVEMENTS OPTION 1</p> <p>C1.01</p> | PROJECT TITLE | | Proposed Community Center | | PROJECT LOCATION | | Framburg, CT | | DATE | | 10/15/2010 | | SCALE | | 1" = 100' | | DESIGNER | | Tyhe & Band | | CLIENT | | [Redacted] | | PROJECT NO. | | [Redacted] | | DATE | | 10/15/2010 | | PROJECT NO. | | [Redacted] | | DATE | | 10/15/2010 | | PROJECT NO. | | [Redacted] | | DATE | | 10/15/2010 | |
| PROJECT TITLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Community Center | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT LOCATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Framburg, CT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/15/2010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1" = 100' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESIGNER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tyhe & Band | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/15/2010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/15/2010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Redacted] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/15/2010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Other - Econ. Development

Long Hill Green

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Economic Development - Pequonnock River Trail Extension to Church Hill Road

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Design costs for the installation of Pequonnock River Trail Extension to Church Hill Road in the vicinity of Potential Community Center.

What existing facilities or conditions will be affected by the project? How will this project improve these?

The project will connect the Pequonnock River Trail to Trumbull Hall Campus.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Design 2020; Construction 2021

Are there any outside funding sources, e.g., grants?

Town is looking to obtain Grant Funds (LOTICIP) for the project. Town would pay for design. Grant would pay for construction.

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|------------------------------|-----------------------|---------|---------|-----------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Design - PRT Trail Head | | | 180,000 | | | 180,000 |
| Construction- PRT Trail Head | | | | 1,801,000 | | 1,801,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

**Economic Development - Church Hill Road/Quality Road
Intersection Improvements**

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Traffic light installation with Intersection improvements at Church Hill Road and Quality Street.

What existing facilities or conditions will be affected by the project? How will this project improve these?

The project will improve the intersection at Church Hill Road and Quality Street. The light will facilitate the potential Community Center & Trail connection to Pequonnock River Trail.

Will this project necessitate staffing increases?

no

What is the general plan and timeline for completion?

2020-2022

Are there any outside funding sources, e.g., grants?

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|--|-----------------------|---------|-----------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| | | | | | | - |
| Construction - Church Hill Road/Quality Road Intersection Improvements | | 144,587 | 1,277,182 | | | 1,421,769 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

E.D. #1

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Economic Development - Long Hill Green
Connection/Patio/Parking

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Long Hill Green Connectivity

What existing facilities or conditions will be affected by the project? How will this project improve these?

The construction of sidewalks along Main Street from Whitney to Gisella on the westside and from Whitney to the northside of the existing Marisa Property will allow safe walkability to pedestrians.

Will this project necessitate staffing increases?

What is the general plan and timeline for completion?

Are there any outside funding sources, e.g., grants?

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|--|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Long Hill Connectivity - Design/Construction - Connection from Whitney To Govenors Ridge & Former Marissa's Restaurant 5 | | 415,000 | | | | 415,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

ED # 2

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Economic Development - White Plains Trail Connection

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Project elements include:

1. Modifications and signage to the commuter lot to create a dedicated trail head
2. Instalation of sidewalks to the Twin Brooks area to connect the trail in both directions
3. Footbridge installation

What existing facilities or conditions will be affected by the project? How will this project improve these?

Connection fro

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2021-2024

Are there any outside funding sources, e.g., grants?

Possible grant

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Design - sidewalk connection from State Parking Lot to Twin brooks Park on WhitePlains road | | 160,800 | | | | 160,800 |
| Construction - sidewalk connection from State Parking Lot to Twin brooks Park on WhitePlains road | | | 804,000 | | | 804,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)



STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION
2800 BERLIN TURNPIKE, P.O. BOX 317546
NEWINGTON, CONNECTICUT 06131-7546
Phone: (860) 594-2047



January 11, 2018

E.D. # 2

Ms. Vicki Tesoro, First Selectwoman
Town Hall
5866 Main Street
Trumbull, CT 06611

Grant \$400,000

Dear First Selectwoman Tesoro:

Subject: Commitment to Fund Letter
Community Connectivity Grant Long Hill Green Village District
Pedestrian Safety and Access Project
State Project No. 0170-3513
Town of Trumbull

On August 9, 2018, the Town of Trumbull was awarded a grant under the Community Connectivity Grant Program (CCGP) by the State of Connecticut, Department of Transportation (Department).

The Department hereby commits to fund eligible project costs up to the accepted grant amount of \$400,000, based on the estimated costs provided by the Municipality.

This Commitment to Fund is subject to general conditions including, but not limited to the following:

1. The project is to be administered by the Municipality in accordance with the CCGP Guidelines. The guidelines are available at the following: www.ctconnectivity.com under the CCGP tab at the top.
2. The project costs identified in this Commitment to Fund letter are based on the requested amount from the CCGP application. It is understood that the Department has capped CCGP participation in this project at the application estimate and that any additional project costs will be the responsibility of the Municipality. This capped amount may be different than the actual grant payment, which will be based on the approved low bid. The Municipality will be allowed a maximum of 10% for contingencies and 10% for incidentals up to the capped amount.
3. Should the Municipality elect to use municipal forces to perform the construction, a request should be made to the Department with the final design submission.
4. Any project scope revisions must be reviewed and approved by the Department.

| |
|----------|
| E.D. # 2 |
|----------|

5. Upon completion of project design activities, and prior to issuing a notice to advertise/proceed, the Municipality must forward a Final Design Submission to the Department which includes the following:
 - a. Complete set of final project plans
 - b. Specifications
 - c. Contract documents
 - d. Final Construction Cost Estimate
 - e. Final Design Submission Documentation Form (template attached)
 - f. Completed General Municipal Certification for Design Activities Form (template attached)

A digital submission via e-mail is preferred.

6. The Municipality must execute and deliver a Project Authorization Letter (PAL) Issued pursuant to the Master Municipal Agreement for Construction Projects and comply with its terms. The PAL will be forwarded to the Municipality for execution subsequent to the receipt of the Final Design Submission package by the Department.

This commitment is further subject to the following project specific conditions:

1. This project may require environmental permits. In accordance with the CCGP Guidelines, the Municipality will be responsible for the acquisition of all environmental permits that may be required. Please be advised that any project that involves work within waters or wetlands may require State and/or Federal environmental permits. It is critical that the Municipality and/or their consultant contact the Connecticut Department of Energy and Environmental Protection (DEEP) Land and Water Resources Division at 860-424-3019, early in the design process to discuss permitting requirements, and to identify specific concerns and design considerations. Failure to establish early communication with DEEP may result in significant time delays in the permitting process, due to the need for design changes and/or denial of permit applications. More information can be found on DEEP's Environmental Permitting Process website at:
https://www.ct.gov/deep/cwp/view.asp?a+2709&q+324232&deepNav_GID=1643.
2. This project may require utility relocations. Coordination with utility companies who have facilities within the project area should begin early in the design process.
3. This project may require work to be performed within the State-owned right-of-way. Any work within or affecting state right-of-way will require an encroachment permit. It is imperative that the design of the improvements proposed under this project be coordinated with the appropriate Department District Office during the design and construction phase. Therefore, it is requested that the municipality contact the Department District Special Services Office listed below early in the design process to review and coordinate the proposed improvements. More information on the encroachment permit process and be found at:
<https://www.ct.gov/dot/cwp/view.asp?A=1394&Q=259544>.

DISTRICT 3 MAINTENANCE

**Mr. Paul Holmes, Special Services Section Manager
Bureau of Highway Operations and Maintenance
140 Pond Lily Avenue
New Haven 06515
Tel: 203-389-3010
Permit Office - Tel: 203-389-3000 or email to Tracy.May@ct.gov**

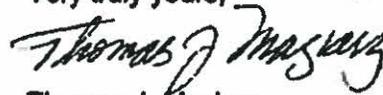
E.D. # 2

Please be informed that, in accordance with the CCGP Guidelines, the Department has initiated an Environmental Screening Review for this project to assist the Municipality in identifying items relative to natural resources, and historical/archeological resources, etc. that may need to be investigated or addressed during the design phase. The Environmental Screening Review is expected to be completed within thirty days (30) days from the date of this letter. The results will be forwarded to the Municipality, upon completion.

If the Municipality accepts this Commitment to Fund, the Municipal Chief Administrative Officer must sign below and return a copy within thirty (30) days from the date of this letter. Transmission via e-mail is acceptable.

If you have any questions, please contact the Project Manager, Mr. Patrick Zapalka, at 860-594-2047 or CTDOT.CCGP@ct.gov.

Very truly yours,



Thomas J. Maziarz
Bureau Chief
Policy and Planning

Concurred by Vicki A. Tesoro Date 1/25/19

Print Name: Ms. Vicki Tesoro, First Selectwoman

Enclosure

cc: Rina Bakalar (Trumbull)
Executive Director METROCOG

E. D.
White Plains Rd.
Trail Connection

**White Plains
Road
Sidewalks**

Trumbull, CT

VERIFY SCALE
DATE: 11/20/19
BY: [Signature]
CHECKED: [Signature]
SCALE: AS SHOWN

6-17-19

| NO. | DATE | DESCRIPTION |
|-----|----------|-------------------|
| 1 | 11/20/19 | ISSUED FOR PERMIT |
| 2 | 06/17/19 | ISSUED FOR PERMIT |
| 3 | 06/17/19 | ISSUED FOR PERMIT |
| 4 | 06/17/19 | ISSUED FOR PERMIT |
| 5 | 06/17/19 | ISSUED FOR PERMIT |
| 6 | 06/17/19 | ISSUED FOR PERMIT |
| 7 | 06/17/19 | ISSUED FOR PERMIT |
| 8 | 06/17/19 | ISSUED FOR PERMIT |
| 9 | 06/17/19 | ISSUED FOR PERMIT |
| 10 | 06/17/19 | ISSUED FOR PERMIT |

EXISTING CONDITIONS

SCALE: 1" = 30'

C3.00



MATCH LINE SHEET C3.00

THIS DRAWING IS THE PROPERTY OF TIGHE & BOND ENGINEERS, ARCHITECTS AND PLANNERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF TIGHE & BOND ENGINEERS, ARCHITECTS AND PLANNERS, INC.

WPCA

**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST
 CONTRACT V - SOUTH NICHOLS AREA
 TOWN OF TRUMBULL, CONNECTICUT
 SANITARY SEWER SYSTEM
 Contract 5**

| Item | Qty | Unit | Unit Price | Amount |
|---|--------|------|------------|-----------------------|
| SANITARY SEWER | | | | |
| Clearing and Grubbing | 1 | LS | \$ 5,000 | \$ 5,000 |
| 6" PVC SAN. LATERALS | 3,805 | LF | \$ 60 | \$ 228,300 |
| STRUCTURAL SUPPORT FOR TRENCH/MANHOLES | 0 | LS | \$ 400,000 | \$ - |
| 2" FORCE MAIN | 1,175 | LF | \$ 40 | \$ 47,000 |
| Individual Lot Pump System | 13 | Each | \$ 7,500 | \$ 97,500 |
| 4" FORCE MAIN (40% phase 1 and 60% phase5) | 920 | LF | \$ 50 | \$ 46,000 |
| 8" PVC SS 0-10' | 6,810 | LF | \$ 90 | \$ 612,900 |
| 8" PVC SS 10-15' | 2,861 | LF | \$ 95 | \$ 271,795 |
| 8" PVC SS 15-20' | 0 | LF | \$ 125 | \$ - |
| 8" DIP SS 0-10' | 0 | LF | \$ 85 | \$ - |
| 12" PVC SS 0-10' | 675 | LF | \$ 110 | \$ 74,250 |
| 12" PVC SS 10-15' | 1,549 | LF | \$ 141 | \$ 218,409 |
| 12" PVC SS 15-20' | 715 | LF | \$ 200 | \$ 143,000 |
| 6" PVC TRENCH DRAIN | 86 | LF | \$ 25 | \$ 2,150 |
| 48" SMH 0-10' | 55 | EA | \$ 2,400 | \$ 132,000 |
| 48" SMH 10-15' | 20 | EA | \$ 2,400 | \$ 48,000 |
| 48" SMH 15-20' | 6 | EA | \$ 4,500 | \$ 27,000 |
| 48" SMH 20-25' | 0 | EA | \$ 5,500 | \$ - |
| 48" SAN. DROP MH 10-15' | 6 | EA | \$ 3,600 | \$ 21,600 |
| 48" SAN. DROP MH 15-20' | 1 | EA | \$ 5,000 | \$ 5,000 |
| 48" SAN. DOGHOUSE MH 0-10' | 0 | EA | \$ 2,500 | \$ - |
| 48" SAN. DOGHOUSE MH 20-25' | 0 | EA | \$ 3,000 | \$ - |
| 60" SAN. DROP MH 0-10' | 0 | EA | \$ 4,000 | \$ - |
| 60" SAN. DROP MH 10-15' | 0 | EA | \$ 4,000 | \$ - |
| Sanitary Sewer Pump Station (complete) (40% phase 1 and 60% phase5) | 1 | LS | \$ 200,000 | \$ 200,000 |
| 6" CONC. CHIMNEYS | 193 | VF | \$ 250 | \$ 48,250 |
| CONC. ENCASEMENT | 0 | CY | \$ 300 | \$ - |
| STREAM, RIVER & CULVERT CROSSING | 30 | LF | \$ 200 | \$ 6,000 |
| TEMPORARY PAVEMENT REPAIR | 2,613 | SY | \$ 24 | \$ 62,706 |
| SAWCUT BITUMINOUS PAVEMENT | 24,898 | LF | \$ 3 | \$ 74,694 |
| PAVEMENT REPAIR (4") | 10,451 | SY | \$ 35 | \$ 365,787 |
| PAVEMENT REPAIR (9") | 1,803 | SY | \$ 90 | \$ 162,280 |
| TRENCH EXCAVATION - ROCK | 3,744 | CY | \$ 100 | \$ 374,400 |
| EASEMENTS | 1 | LS | \$ 15,000 | \$ 15,000 |
| TRAFFIC PERSON (MUNICIPAL POLICE) | 1,035 | HR | \$ 75 | \$ 77,594 |
| Subtotal: | | | | \$ 3,366,616 |
| Lump Sum Items (5%): | | | | \$ 168,331 |
| 20% Contingency: | | | | \$ 673,323 |
| Sanitary Sewer Construction Subtotal: | | | | \$ 4,376,601 * |
| Surveying, Engineering and Permitting 5%: | | | | \$ 214,621 * |
| Construction Administration and Observation 8%: | | | | \$ 350,128 * |
| Total: | | | | \$ 5,041,350 |

Note: These costs are based on a conceptual plan, NOT 100% construction documents.

"This is an engineer's Opinion of probable Construction Cost (OPCC). Tighe & Bond has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the estimates of probable construction costs are made on the basis of the Tighe & Bond's professional judgment and experience. Tighe & Bond makes no guarantee nor warranty, expressed or implied, that the bids or the negotiated cost of the Work will not vary from this estimate of the Probable Construction Cost."

Total = \$4,941,347

CIP 2020 - 2024

Other - Engineering

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Colony Road

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Sediments have built up along the storm drainage discharge point at the intersection of Blackhouse and Colony road. This project would remove sediments along this area.

What existing facilities or conditions will be affected by the project? How will this project improve these?

This project will improve the drainage system in the vicinity of Colony Road and Blackhouse Road

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

AS shown below

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|-----------------------------------|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Colony Road sedimentation removal | | 387,402 | | | | 387,402 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Daniels Farm Road

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This project is intended to replace and/or add drainage systems along Daniels Farm Road. Various drainage pipes are corrugated metal pipe and are in need of replacement.

What existing facilities or conditions will be affected by the project? How will this project improve these?

The project will improve roadway surface stormwater runoff during a rainstorm.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Design 2019; Construction 2020-2021

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---|-----------------------|-----------|-----------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Daniels Farm Road - Drainage Improvements | | 1,510,000 | | | | 1,510,000 |
| Daniels Farm Road - Roadway Improvements | | | 2,159,990 | | | 2,159,990 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

Eng# 1
need esti

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Town Wide Bridges

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This project improves various bridges in the Town of Trumbull. These bridges are observed by the State of Connecticut as part of the State Bridge Inspection program. The State provides us with an inspection report.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Bridges included are on Brock Street, Old town Road, Old Mine Road and Old Dyke Road, Whitney.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

As shown below

Are there any outside funding sources, e.g., grants?

Potential State Grant for Old Town Road Bridge

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|--|-----------------------|-----------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Brock Street Bridge- Construction (first phase) | 120,000 | | | | | 120,000 |
| Brock Street Bridge -Design (second phase) | | 90,000 | | | | 90,000 |
| Brock Street Bridge - Construction (second phase) | | | 300,000 | | | |
| Old Town Road Bridge - Construction Inspections | | 1,051,737 | - | | | |
| Old Mine Road Bridge - Design/Construction/Inspections | | | 16,000 | | | 16,000 |
| Old Dike Road Bridge- Design/Construction/Inspections | | | 15,000 | | | 15,000 |
| Whitney Ave. Bridge- Design | | 17,000 | | | | 17,000 |
| Whitney Ave. Bridge- Construction | | | | 93,000 | | 93,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

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JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Old Town Road improvements

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This project is intended to provide complete streets implementation along various parts of Old Town Road.

What existing facilities or conditions will be affected by the project? How will this project improve these?

The intent of this project is to provide geometry improvements and potential non-vehicular modes of transportation.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

See below

Are there any outside funding sources, e.g., grants?

Potential state grants for roadway geometry type improvements.

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---|-----------------------|-----------|---------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Roadway Improvement/Design/Construction | - | 3,500,000 | | | | 3,500,000 |
| | | | | | | - |
| | | | | | | - |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Old Dike Road paving phase 2

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This is the 2nd phase of the Old Dike Road paving project. The first phase completed the drainage in 2019. This estimate is to pave the road.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Finish paving project on Old Dike Road.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2020

Are there any outside funding sources, e.g., grants?

no

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|------------------------------|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Old Dike Road paving Phase 2 | 356,234 | | | | | 356,234 |
| | | | | | | - |
| | | | | | | - |

Eng# 3

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

**Engineering - Hedgehog, Harvest Hill and Daniels Farm
Culverts**

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Existing culverts need repairs. One overtopped during floods in 2018 that caused Daniels Farm Road to be closed to emergency vehicles. Upstream and downstream properties were also affected. The culvert collects runoff from Hillcrest Middle School and the surrounding neighborhoods.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Daniels Farm roads culverts (Box Culvert on Daniels Farm Road at Hedgehog) and 30in culvert on Daniels Farm road approximately 750ft north of the intersection with Hedgehog Road.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2021-2023

Are there any outside funding sources, e.g., grants?

no

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|--|-----------------------|-----------|---------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Daniels Farm Road culverts (box culvert & 30in culvert) - design | 161,000 | | | | | 161,000 |
| Hedgehog/Harvest Hill/Daniels Farm Road culverts - Construction | | 2,000,000 | | | | 2,000,000 |
| | | | | | | - |

Eng# 4

Eng# 4 (partial)

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Strobel Road sidewalks

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

This project will consist of adding NEW sidewalks from the most eastern driveway of THS to Booth Hill Road. The sidewalk will be approximately 5,430LF in length. There is a strong community demand for this project.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Strobel Road sidewalks from THS to Booth Hill Road.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2022-2023

Are there any outside funding sources, e.g., grants?

no

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---------------------------------------|-----------------------|-----------|---------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Strobel Road sidewalks - design | 70,000 | | | | | 70,000 |
| Strobel Road sidewalks - construction | | 1,500,000 | | | | 1,500,000 |
| | | | | | | - |

Eng# 5

no estimate

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Engineering - Park Street Culvert

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Culvert design for modifications to culvert on Park Avenue below Route 25. The existing culvert is an older structure at the lower end of the Belden Brook watershed near the confluence with the Pequonnock River. The culvert is shown in the FEMA Flood Insurance Study to be overtopped.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Park Street 42" corrugated culvert under Park St below the Rte. 25 expressway.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2021-2023

Are there any outside funding sources, e.g., grants?

no

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---------------------------------|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Park St. culvert - design | 91,200 | | | | | 91,200 |
| Park St. Culvert - construction | | 750,000 | | | | 750,000 |
| | | | | | | - |

Eng # 6

no estimate

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**Engineering
Daniels Farm Road
Drainage**

Old Dike Road Paving Phase 2

Eng # 3

| Item | Units | Unit Costs |
|-------------|---------|------------|
| 50.3 (CLAS) | Per Ton | \$ 104.37 |
| 50.375 (CL) | Per Ton | \$ 168.29 |

| Item | Units | Unit Costs |
|-------------|---------|------------|
| 20.5 (CLAS) | Per Ton | \$ 92.86 |
| 20.375 (CL) | Per Ton | \$ 97.37 |

| Item | Units | Unit Costs |
|-------------|---------|------------|
| 50.3 (CLAS) | Per Ton | \$ 94.88 |
| 50.375 (CL) | Per Ton | \$ 94.88 |

| Road Name | LF Per Side | Sq Area | Landscaped Area, SY | # of DRIVEWAY | # of Driveway (ftw) | Times of Driveway (ftw) | 1" Shim Tons | 50.375 Tons | 50.3 Cost | 1" Shim Cost | 50.375 Cost | 50.3 Cost | 50.375 Cost | 1" Shim Cost | 50.375 Cost | Total Cost O&G | Block & Boucher Costs | | | | | Total Cost Per Road (Per LS) | |
|-----------------------------------|-------------|------------------|---------------------|---------------|---------------------|-------------------------|--------------|---------------|-------------|---------------------|----------------------|-------------|----------------------|---------------------|-------------|----------------------|-----------------------|--------------|---------------------|----------------------------|-------------|------------------------------|---------------------|
| | | | | | | | | | | | | | | | | | Calcium Chloride | Mobilization | Cost Reclaiming | Total Cost Block & Boucher | | | |
| OLD DKE RD (Hemlock, Beach, Main) | 4,112 | 11,560.13 | 5,483 | 65 | 130 | 0 | 783 | 15,259 | \$ - | \$ 1,014,911 | \$ 148,580.33 | \$ - | \$ 148,580.33 | \$ 81,014.91 | \$ - | \$ 291,146.31 | \$ 291,146.31 | \$ - | \$ 28,500.33 | \$ 1,000.00 | \$ - | \$ 29,500.33 | \$ 31,046.44 |
| Total | | 11,560.13 | 5,483 | | 130 | 0 | 783 | 15,259 | \$ - | \$ 1,014,911 | \$ 148,580.33 | \$ - | \$ 148,580.33 | \$ 81,014.91 | \$ - | \$ 291,146.31 | \$ 291,146.31 | \$ - | \$ 28,500.33 | \$ 1,000.00 | \$ - | \$ 29,500.33 | \$ 31,046.44 |

| Road Name | LF Per Side | Sq Area | Landscaped Area, SY | # of DRIVEWAY | # of Driveway (ftw) | Times of Driveway (ftw) | 1" Shim Tons | 50.375 Tons | 50.3 Cost | 1" Shim Cost | 50.375 Cost | 50.3 Cost | 50.375 Cost | 1" Shim Cost | 50.375 Cost | Total Cost O&G | Block & Boucher Costs | | | | | Total Cost Per Road (Per LS) | |
|----------------------------------|-------------|-----------------|---------------------|---------------|---------------------|-------------------------|--------------|--------------|-------------|--------------------|---------------------|-------------|---------------------|------------------|-------------|---------------------|-----------------------|--------------|--------------------|----------------------------|-------------|------------------------------|---------------------|
| | | | | | | | | | | | | | | | | | Calcium Chloride | Mobilization | Cost Reclaiming | Total Cost Block & Boucher | | | |
| HEMLOCK TRL (Old Dike-Primmerod) | 395 | 3,202.18 | 527 | 10 | 20 | 0 | 86 | 171.8 | \$ - | \$ 1,128.10 | \$ 15,716.71 | \$ - | \$ 15,716.71 | \$ 912.10 | \$ - | \$ 16,628.81 | \$ 16,628.81 | \$ - | \$ 3,215.45 | \$ - | \$ - | \$ 3,215.45 | \$ 15,187.65 |
| Total | | 3,202.18 | 527 | | 20 | 0 | 86 | 171.8 | \$ - | \$ 1,128.10 | \$ 15,716.71 | \$ - | \$ 15,716.71 | \$ 912.10 | \$ - | \$ 16,628.81 | \$ 16,628.81 | \$ - | \$ 3,215.45 | \$ - | \$ - | \$ 3,215.45 | \$ 15,187.65 |

Hedgehog, Harvest Hill & Daniels Farm Roads Culverts

September 23, 2019

Mr. William Maurer, P.E., L.S.
Town Engineer
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

\$79,000 + \$82,000 = \$161,000 design for
Daniels Farms Culverts

**RE: Daniels Farm Road 30 Inch Culvert Replacement
Design Proposal and Budget**

Dear Mr. Maurer:

Luchs Consulting Engineers, LLC (Luchs) is pleased to submit the scope of work and budget for professional services needed to design modifications or replacement for the existing 30 inch culvert on Daniels Farm Road between Hedgehog Road and Inca Drive, and prepare the Contract Package for bidding.

The existing 30 inch culvert overtopped during flooding in September 2018, and closed Daniels Farm Road to emergency vehicles. Luchs will conduct the work as part of its on-going commitment to provide On-Call engineering services to the Town on a Time and Expense basis. This project will be funded under the Town Capital program.

The 30 inch culvert is located on Daniels Farm Road approximately 750 feet north of the intersection with Hedgehog Hill Road. The culvert collects runoff from Hillcrest Middle School and the surrounding neighborhood, and discharges it west toward Inca Drive. Area lies within the Belden Brook Watershed.

It is anticipated that approximately 50 feet to 75 feet of the watercourse may be impacted upstream and downstream of the culvert.

Proposed Improvements

Daniels Farm Road is a busy Collector Street in this area. It is anticipated that the culvert will need to be replaced or supplemented in stages to avoid traffic disruptions during construction.

We assume that the following options would be evaluated as part of this project:

1. Prepare a Culvert Assessment of existing conditions.
2. Evaluate methods to improve culvert capacity by
3. Analyze existing culvert hydraulics and prepare new culvert design using HydroCAD or other culvert design software. Multiple culvert configurations will be checked.

4. Potentially design new roadway drainage (catch basins and pipes) for lessened erosion and improved travel safety.
5. Develop water handling and construction phasing plans for proposed alternatives.
6. Prepare roadway plans with curbs and new guiderails, if necessary, installed in accordance with typical Town standards.
7. Provide signing and pavement markings along Daniels Farm Road.
8. Seed areas disturbed during construction.

Design Services

Luchs will provide professional engineering design services to the Town of Trumbull for this project meeting the Town of Trumbull, ConnDOT, AASHTO and generally accepted design practices.

As detailed in the attached manhour matrix, Luchs work will follow the following phases:

- I. Preparation of Preliminary Design (30%)
- II. Preparation of Final Design and Contract Plans, Specifications and Estimate (PS&E)
- III. Construction Phase Services (To Be Determined)

The following assumptions were made in the preparation of the scope and budget:

- Luchs will engage a Certified Soils Scientist to delineate inland wetlands along the watercourse and prepare a report suitable for permit submissions.
- Luchs will conduct all survey tasks including all necessary topographic and property surveys.
- Luchs will prepare Property Maps that may be needed for Proposed Grading and Drainage Easements.
- Luchs will engage a Geotechnical Engineer to oversee soil borings and prepare a report of the underlying soils and bedrock at the culvert location.
- Luchs would prepare support information for a Trumbull Planning and Zoning Meeting (if necessary) and a Trumbull Inland Wetlands Meeting. The Trumbull Engineering Department would prepare the actual application.
- The Maintenance & Protection of Traffic measures would use alternating one-way traffic to maintain access when the culvert is being upgraded. Probably one side of the culvert would be disturbed at any one time.
- The proposed culvert modification will be designed with a match existing culvert inverts and wing walls, where possible. Survey of the stream would be limited to immediately upstream and downstream (50'-75').
- One Public Information Meeting is anticipated. Luchs will prepare presentation material and present the project to the public.
- FEMA Flood Study Flows will be used for design hydrology.

**Daniels Farm Road 30 Inch Culvert Replacement
Scope of Work and Budget**

September 23, 2019

Page 3 of 4

- A standard culvert analysis will be prepared in accordance with FHWA Hydraulic Design Series Number 5 (HDS5), Hydraulic Design of Highway Culverts.
- Up to Three (3) Easement Maps are proposed.
- It is assumed that the following tasks will not be required:
 - Traffic crash data collection and analysis.
 - CT DEEP or Army Corps Permits.
 - HEC-RAS analysis of Belden Brook.
 - FEMA Letter of Map Revision.
 - Construction Stormwater Permit (DEEP).
 - Hazardous Material identification or remediation.
 - Intersection re-grading of Hedgehog Road.
 - Calculation of Service Life of Proposed Improvements.
- The Town will provide the Front End of the Final Bid Specifications Package.
- The project will be administered and reviewed by the Town.

Deliverables

- Existing Topographic and Property Survey
- Soils Scientist's Report and Wetland Delineation
- Culvert Condition Survey
- Soil Borings and Geotechnical Report
- Grading and Drainage Easement Maps and Legal Descriptions
- Road Plan and Profile
- Culvert Plan and Profile
- Culvert Details
- Roadway Grading and Drainage Plan
- Drainage Details
- Sediment and Erosion Control Plan
- Sediment and Erosion Control Details
- Paving and Guiderail Details
- Utility Plan and Details for coordination
- Water Handling Plan
- Maintenance and Protection of Traffic Plan
- Design Report
- Quantity Estimates
- Cost Estimates
- Written Technical Specifications
- Bid Form

Budget Proposal

Luchs Consulting Engineers, LLC will perform these services on a Time and Expense basis in accordance with the conditions of RFP # 6227, as detailed below:

**Daniels Farm Road 30 Inch Culvert Replacement
Scope of Work and Budget**

**September 23, 2019
Page 4 of 4**

| | |
|--------------------------------|-----------|
| I. Survey | \$ 6,700 |
| II. Preliminary Design | \$ 18,300 |
| III. Final Design | \$ 33,600 |
| IV. Bid Document Preparation | \$ 5,700 |
| V. Environmental Permitting | \$ 8,400 |
| VI. Geotechnical Investigation | \$ 8,500 |

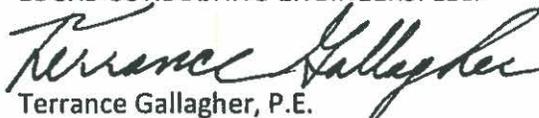
TOTAL

\$ 81,200

We are looking forward to starting work on this interesting project and working with you and your staff on its successful completion.

Should you have any questions or require additional information, please call me at (203) 379-0320 Ext 242.

Sincerely,
LUCHS CONSULTING ENGINEERS. LLC.


Terrance Gallagher, P.E.
Senior Civil Engineer

TG:Q:\Marketing\Luchs Marketing\RFQs\Trumbull - Daniels Farm Rd Culvert #2\Proposal\PROP Daniels Farm Rd Culvert 30 In 9-23-19.docx

September 23, 2019

Mr. William Maurer, P.E., L.S.
Town Engineer
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

**RE: Daniels Farm Road Box Culvert Modification
Design Proposal and Budget**

Dear Mr. Maurer:

Luchs Consulting Engineers, LLC (Luchs) is pleased to submit the scope of work and budget for professional services needed to design modifications to existing 8 foot x 3 foot box culvert on Daniels Farm Road at Hedgehog Road, and prepare the Contract Package for bidding.

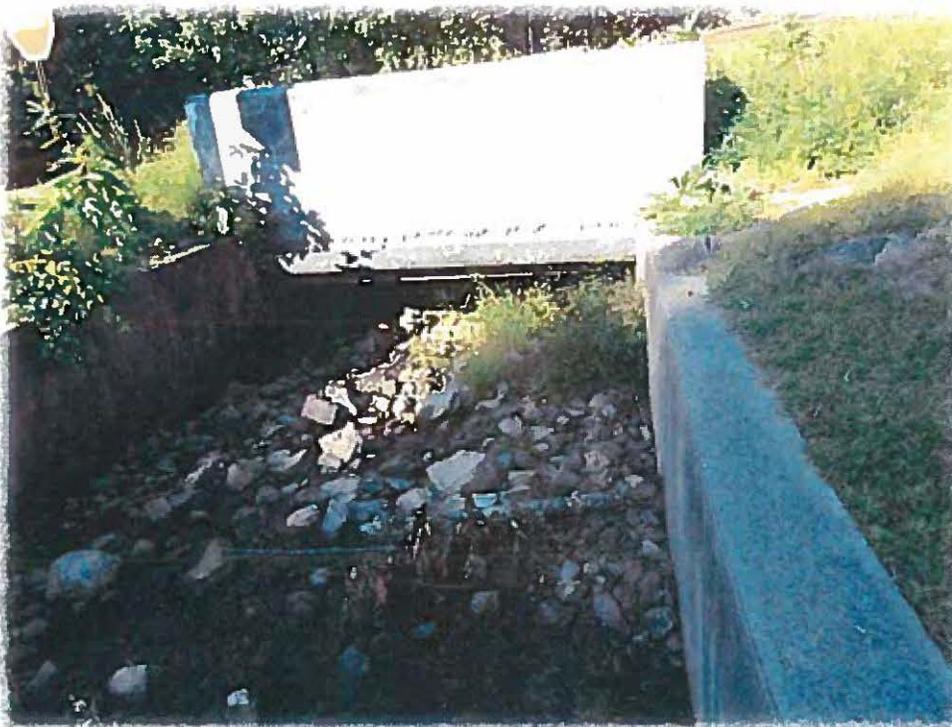


Figure 1 Daniels Farm Road Box Culvert at Hedgehog Road – Upstream Headwall

The existing 8 foot x 3 foot concrete box culvert overtopped during flooding in September 2018, and closed Daniels Farm Road to emergency vehicles. Upstream and downstream properties were also impacted by the flooding, and the Trumbull Department of Public Works has done partial stabilization of the upstream channel. Luchs will conduct the work as part of its on-

**Daniels Farm Road Box Culvert Improvements
Scope of Work and Budget**

September 23, 2019

Page 2 of 5

going commitment to provide On-Call engineering services to the Town on a Time and Expense basis. This project will be funded under the Town Capital program.

The 8 foot x 3 foot box culvert is located near the intersection with Hedgehog Hill Road. The box culvert was reconstructed in 2005, but with limited downstream channel improvements. Belden Brook takes a sharp left hand turn immediately below the box culvert, which may be creating a significant flow restriction that is eroding the banks on the downstream property and limiting the hydraulic capacity of the culvert. Portions of the upstream channel are also continuing to erode which is washing material into the box culvert inlet. The height of the box culvert is also limited by a natural gas pipeline that is mounted to the inlet headwall.



Figure 2 Downstream culvert outlet with eroded stream bank

It is anticipated that approximately 200-300 linear feet of Belden Brook may be impacted upstream and downstream of the culvert. The Daniels Farm Road culvert is also part of the mapped FEMA Floodplain.

Proposed Improvements

Daniels Farm Road is a busy Collector Street in this area. In order to avoid traffic disruptions the key focus of this study will be to determine if the flood carrying capacity of the culvert can be significantly improved by making improvements to the existing culvert and channel rather

**Daniels Farm Road Box Culvert Improvements
Scope of Work and Budget****September 23, 2019
Page 3 of 5**

that replacing the entire culvert. The culvert was reconstructed in 2005, and has concrete wing walls that are pinned to ledge on the downstream side along the road R.O.W..

We assume that the following options would be evaluated as part of this project:

1. Prepare a Culvert Assessment of existing conditions.
2. Evaluate methods to improve culvert capacity by
 - a. Improving outlet conditions by widening the channel and creating a more gradual transition downstream.
 - b. Removing rock outcrops inside the culvert that may be trapping debris and limiting hydraulic capacity.
 - c. Improving the culvert inlet, and possibly relocating the gas main.
 - d. Improving the upstream channel and armoring the bed with larger stone to limit debris clogging.
3. Analyze existing culvert hydraulics and prepare new culvert design using HydroCAD or other culvert design software. Multiple culvert configurations will be checked.
4. Potentially design new roadway drainage (catch basins and pipes) at the intersection for lessened erosion and improved travel safety.
5. Develop water handling and construction phasing plans for proposed alternatives.
6. Prepare roadway plans with curbs and new guiderails, if necessary, installed in accordance with typical Town standards.
7. Provide signing and pavement markings along Daniels Farm Road and the intersection with Hedgehog Hill Road.
8. Seed areas disturbed during construction.

Design Services

Luchs will provide professional engineering design services to the Town of Trumbull for this project meeting the Town of Trumbull, ConnDOT, AASHTO and generally accepted design practices.

As detailed in the attached manhour matrix, Luchs work will follow the following phases:

- I. Preparation of Preliminary Design (30%)
- II. Preparation of Final Design and Contract Plans, Specifications and Estimate (PS&E)
- III. Construction Phase Services (To Be Determined)

The following assumptions were made in the preparation of the scope and budget:

- Luchs will engage a Certified Soils Scientist to delineate inland wetlands along the Belden Brook and prepare a report suitable for permit submissions.
- Luchs will conduct all survey tasks including all necessary topographic and property surveys.

**Daniels Farm Road Box Culvert Improvements
Scope of Work and Budget**

September 23, 2019

Page 4 of 5

- Luchs will prepare Property Maps (assumed 3) that may be needed for Proposed Grading and Drainage Easements.
- At this time a Geotechnical Investigation is not proposed due to the visible ledge along the stream bed downstream of the culvert.
- Luchs would prepare support information for a Trumbull Planning and Zoning Meeting (if necessary) and a Trumbull Inland Wetlands Meeting. The Trumbull Engineering Department would prepare the actual application.
- The Maintenance & Protection of Traffic measures would use alternating one-way traffic to maintain access for residents when the culvert is being modified. Probably one side of the culvert would be disturbed at any one time.
- The proposed culvert modification will be designed with a match existing culvert inverts and wing walls, where possible. Survey of the stream would be limited to immediately upstream and downstream (100-150').
- One Public Information Meeting is anticipated. Luchs will prepare presentation material and present the project to the public.
- FEMA Flood Study Flows will be used for design hydrology.
- A standard culvert analysis will be prepared in accordance with FHWA Hydraulic Design Series Number 5 (HDS5), Hydraulic Design of Highway Culverts.
- Up to Three (3) Easement Maps are proposed.
- It is assumed that the following tasks will not be required:
 - Traffic crash data collection and analysis.
 - CT DEEP or Army Corps Permits.
 - HEC-RAS analysis of Belden Brook.
 - FEMA Letter of Map Revision.
 - Construction Stormwater Permit (DEEP).
 - Hazardous Material identification or remediation.
 - Intersection re-grading of Hedgehog Road.
 - Calculation of Service Life of Proposed Improvements.
- The Town will provide the Front End of the Final Bid Specifications Package.
- The project will be administered and reviewed by the Town.

Deliverables

- Existing Topographic and Property Survey
- Soils Scientist's Report and Wetland Delineation
- Culvert Condition Survey
- Grading and Drainage Easement Maps and Legal Descriptions
- Road Plan and Profile
- Culvert Plan and Profile
- Culvert Details
- Roadway Grading and Drainage Plan
- Drainage Details
- Sediment and Erosion Control Plan

**Daniels Farm Road Box Culvert Improvements
Scope of Work and Budget**

**September 23, 2019
Page 5 of 5**

- Sediment and Erosion Control Details
- Paving and Guiderail Details
- Utility Plan and Details for coordination
- Water Handling Plan
- Maintenance and Protection of Traffic Plan
- Design Report
- Quantity Estimates
- Cost Estimates
- Written Technical Specifications
- Bid Form

Budget Proposal

Luchs Consulting Engineers, LLC will perform these services on a Time and Expense basis in accordance with the conditions of RFP # 6227, as detailed below:

| | |
|--------------------------------|-----------|
| I. Survey | \$ 6,700 |
| II. Preliminary Design | \$ 19,800 |
| III. Final Design | \$ 35,200 |
| IV. Bid Document Preparation | \$ 7,900 |
| V. Environmental Permitting | \$ 9,400 |
| VI. Geotechnical Investigation | \$ 0 |

TOTAL **\$ 79,000**

We are looking forward to starting work on this interesting project and working with you and your staff on its successful completion.

Should you have any questions or require additional information, please call me at (203) 379-0320 Ext 242.

Sincerely,
LUCHS CONSULTING ENGINEERS. LLC.



Terrance Gallagher, P.E.
Senior Civil Engineer

Eng #4 Construction for ONE culvert at Harvest Hill.
 This is part of the \$2M request for construction of all 3 culverts

| Luchs Consulting Engineers, LLC | | | | | |
|--|---|-------|----------|-------------|-----------|
| Harvest Hill Culvert Replacement TRUMBULL, CONNECTICUT 19008 | | | | | |
| Preliminary Design Cost Estimate - Alternative SP-1C: 8'x4' Box Culvert 9-23-19 | | | | | |
| ITEM No. | ITEM DESCRIPTION | UNITS | QUANTITY | UNIT PRICE | AMOUNT |
| 0100072 | A Removal and Disposal of Underground Tanks | EA. | 0 | \$7,500.00 | \$0 |
| 0201001 | Clearing and Grubbing | LS | 1 | \$15,000.00 | \$15,000 |
| 0201199 | A Remove and Reset Fence | L.F. | 0 | \$70.00 | \$0 |
| 0202000 | Earth Excavation | C.Y. | 420 | \$13.50 | \$5,670 |
| 0202100 | Rock Excavation | C.Y. | 100 | \$50.00 | \$5,000 |
| 0202310 | A Excavation and Disposal of Contaminated Material | C.Y. | 20 | \$150.00 | \$3,000 |
| 0202529 | Cut Bituminous Concrete Pavement | L.F. | 65 | \$3.00 | \$195 |
| 0202596 | A Reset Stone Pillar | EA. | 0 | \$3,000.00 | \$0 |
| 0203000 | Structure Excavation - Earth (Complete) | C.Y. | 27 | \$20.00 | \$540 |
| 0204001 | A Cofferdam and Dewatering | L.F. | 50 | \$300.00 | \$15,000 |
| 0204401 | A Handling Water (Site No.1) | LS | 1 | \$30,000.00 | \$30,000 |
| 0205001 | Trench Excavation 0-4' Deep | C.Y. | 0 | \$12.00 | \$0 |
| 0205003 | Trench Excavation 0-10' Deep | C.Y. | 60 | \$18.00 | \$1,080 |
| 0205004 | Rock in Trench Excavation 0-10' Deep | C.Y. | 10 | \$95.00 | \$950 |
| 0205005 | Trench Excavation 0-15' Deep | C.Y. | 25 | \$20.00 | \$500 |
| 0205006 | Rock in Trench Excavation 0-15' Deep | C.Y. | 10 | \$200.00 | \$2,000 |
| 0209001 | Formation of Subgrade | S.Y. | 245 | \$2.00 | \$490 |
| 0213001 | Granular Fill | C.Y. | 25 | \$54.00 | \$1,350 |
| 0213051 | A Gravel Streambed Material | C.Y. | 15 | \$85.00 | \$1,275 |
| 0216000 | Pervious Structure Backfill | C.Y. | 95 | \$50.00 | \$4,750 |
| 0219001 | Sedimentation Control System | L.F. | 220 | \$4.00 | \$880 |
| 0219002 | Sedimentation Control Hay Bale System | L.F. | 50 | \$7.00 | \$350 |
| 0219004 | A Storm Water Pollution Controls | LS | 1 | \$5,000.00 | \$5,000 |
| 0219011 | Sedimentation Control System at Catch Basin | EA. | 3 | \$300.00 | \$900 |
| 0304002 | Processed Aggregate Base | C.Y. | 60 | \$60.00 | \$3,600 |
| 0406002 | A Temporary Pavement | S.Y. | 2,200 | \$32.00 | \$70,400 |
| 0406010-1 | Bituminous Concrete Class 1 | TON | 30 | \$106.00 | \$3,180 |
| 0406010-2 | Bituminous Concrete Class 2 | TON | 30 | \$106.00 | \$3,180 |
| 0406010-4 | Bituminous Concrete Class 4 | TON | 60 | \$106.00 | \$6,360 |
| 0406173 | HMA S0.25 | TON | 0 | \$150.00 | \$0 |
| 0406236 | Material For Tack Coat | Gal | 50 | \$3.00 | \$150 |
| 0406303 | Sawing and Sealing Joints | L.F. | 70 | \$20.00 | \$1,400 |
| 0406999 | A Asphalt Adjustment Cost | EST. | 0 | \$20,000.00 | \$0 |
| 0507001 | Type "C" Catch Basin | EA. | 0 | \$2,800.00 | \$0 |
| 0507022 | Type "C" Catch Basin Double Gate Type II (4' Sump) | EA. | 0 | \$5,600.00 | \$0 |
| 0507026 | Type "C" Catch Basin (4' Sump) | EA. | 3 | \$3,400.00 | \$10,200 |
| 0507051 | Type "C" Catch Basin Over 10' Deep | EA. | 0 | \$3,400.00 | \$0 |
| 0507171 | A Hydrodynamic Separator (Site No. 1) | EA. | 0 | \$25,000.00 | \$0 |
| 0507601 | Manhole | EA. | 0 | \$3,500.00 | \$0 |
| 0507707 | Type "C" Catch Basin Double Gate Type II Over 10' Deep (4' Sump) | EA. | 0 | \$6,000.00 | \$0 |
| 0601000 | Class "A" Concrete | C.Y. | 80 | \$900.00 | \$72,000 |
| 0601217 | A 8' x 4.0' Precast Concrete Box Culvert | L.F. | 75 | \$1,200.00 | \$90,000 |
| 0602000 | Deformed Steel Bars | LB. | 4,500 | \$44.00 | \$198,000 |
| 0651001 | Bedding Material | C.Y. | 15 | \$44.00 | \$660 |
| 0651011 | 12" R.C. Pipes | L.F. | 0 | \$55.00 | \$0 |
| 0651012 | 15" R.C. Pipes | L.F. | 80 | \$60.00 | \$4,800 |
| 0651013 | 18" R.C. Pipes | L.F. | 0 | \$75.00 | \$0 |
| 0651015 | 24" R.C. Pipes | L.F. | 0 | \$125.00 | \$0 |
| 0651107 | 15" A.C.C.M. Pipe | L.F. | 0 | \$65.00 | \$0 |
| 0651717 | 12" Ductile Iron Pipe | L.F. | 0 | \$45.00 | \$0 |
| 0651743 | 6" Polyvinyl Chloride Pipe | L.F. | 10 | \$52.00 | \$520 |
| 0651744 | 4" Polyvinyl Chloride Pipe | L.F. | 0 | \$44.00 | \$0 |
| 0652010 | 15" R.C. Culvert End | EA. | 0 | \$900.00 | \$0 |
| 0653100 | Clean Existing Culvert - 12" to 42" Diameter | L.F. | 0 | \$12.00 | \$0 |
| 0703014 | A Rounded Riprap | C.Y. | 5 | \$150.00 | \$750 |
| 0707009 | A Membrane Waterproofing | S.Y. | 70 | \$65.00 | \$4,550 |
| 0708001 | Dampproofing | S.Y. | 20 | \$20.00 | \$400 |
| 0751900 | A 4" Edgedrain | L.F. | 0 | \$16.00 | \$0 |
| 0815001 | Bituminous Concrete Lip Curbing | L.F. | 120 | \$5.00 | \$600 |
| 0822001 | Temporary Precast Concrete Barrier Curb | L.F. | 100 | \$50.00 | \$5,000 |
| 0905006 | A Remove and Rebuild Existing Stone Wall | L.F. | 0 | \$75.00 | \$0 |
| 0905217 | A Stone Wall | L.F. | 0 | \$150.00 | \$0 |
| 0910300 | Metal Beam Rail (R-B MASH) | L.F. | 150 | \$25.00 | \$3,750 |

Eng# 4

Eng #4 Construction for ONE culvert at Harvest Hill.

This is part of the \$2M request for construction of all 3 culverts

| ITEM No. | ITEM DESCRIPTION | UNITS | QTY | UNIT PRICE | TOTAL PRICE |
|-----------|--|-------|-----|-------------|------------------|
| 0911923 | R-B End Anchorage - Type I | EA. | | | |
| 0913003 | 4' Polyvinyl Chloride Chain Link Fence | L.F. | | | |
| 0922501 | Bituminous Concrete Driveway | S.Y. | 0 | \$47.00 | \$0 |
| 0922503 | Gravel Driveway | S.Y. | 0 | \$50.00 | \$0 |
| 0939001 | Sweeping For Dust Control | HR | 20 | \$10.00 | \$200 |
| 0942001 | Calcium Chloride For Dust Control | TON | 2 | \$1,000.00 | \$2,000 |
| 0943001 | Water For Dust Control | M.GAL | 200 | \$1.50 | \$300 |
| 0944000 | Furnishing and Placing Topsoil | S.Y. | 150 | \$6.00 | \$900 |
| 0946001 | Liming | TON | 1 | \$600.00 | \$600 |
| 0949007 | Wetland Creation | S.Y. | 0 | \$22.00 | \$0 |
| 0949011 | Shore Juniper #3 CAN | EA. | 0 | \$40.00 | \$0 |
| 0949079 | Russian Cypress #3 CAN | EA. | 0 | \$40.00 | \$0 |
| 0949133 | Vaccinium Corymbosum, High Bush Blueberry 18"-24" HT. Contain | EA. | 24 | \$40.00 | \$960 |
| 0949139 | Flowering Silver Andromeda #6 CAN | EA. | 0 | \$40.00 | \$0 |
| 0949226 | Ilex Verticillata, Common Winterberry 18"-24" HT. B.B. | EA. | 24 | \$40.00 | \$960 |
| 0949341 | Clethra Alnifolia, Sweet Pepperbush 2'-3' | EA. | 0 | \$70.00 | \$0 |
| 0949358 | Prunus Serrulata Kwanzan-Kwanzan Cherry 2"-2.5" Cal B.B. | EA. | 0 | \$65.00 | \$0 |
| 0949394 | Blaauw's Pink Azalea Deer Resistant | EA. | 0 | \$40.00 | \$0 |
| 0949395 | Catawba Rhododendron Lilac-Rose Flower | EA. | 0 | \$40.00 | \$0 |
| 0949466 | Rose & Pink Double Knock Out #3 CAN | EA. | 0 | \$40.00 | \$0 |
| 0949602 | Juniperus Virginiana Eastern Red Cedar 6'-8" HT. B.B. | EA. | 0 | \$450.00 | \$0 |
| 0949630 | Pinus Strobus, White Pine 2"- 2.5" | EA. | 0 | \$450.00 | \$0 |
| | Cryptomeria | EA. | 0 | \$250.00 | \$0 |
| 0949724 | Stellar Dogwood 2"- 2.5" CAL B.B. | EA. | 0 | \$525.00 | \$0 |
| 0949827 | Acer Saccharinum, White Maple 2"- 2.5" CAL | EA. | 0 | \$500.00 | \$0 |
| 0949832 | Acer Rubrum Red Maple 2"-2.5" Cal B.B. | EA. | 6 | \$500.00 | \$3,000 |
| 0950010 | Temporary Seeding | S.Y. | 150 | \$0.70 | \$105 |
| 0950013 | Temporary Erosion Control Blankets | S.Y. | 50 | \$5.00 | \$250 |
| 0950015 | Erosion Control Matting | S.Y. | 50 | \$5.00 | \$250 |
| 0950019 A | Turf Establishment - Lawn | S.Y. | 150 | \$2.00 | \$300 |
| 0950025 A | Reset Landsape Edging | L.F. | 0 | \$15.00 | \$0 |
| 0950043 A | Wetland Grass Establishment | S.Y. | 0 | \$2.20 | \$0 |
| 0952051 A | Control and Removal of Invasive Vegetation | S.Y. | 0 | \$7.00 | \$0 |
| 0969062 A | Construction Field Office, Medium | MO | 6 | \$2,500.00 | \$15,000 |
| 0970006 | Trafficperson (Municipal Police Officer) | EST. | 1 | \$12,000.00 | \$12,000 |
| 0970007 | Trafficperson (Uniformed Flagger) | HR | 40 | \$55.00 | \$2,200 |
| 0971001 A | Maintenance and Protection of Traffic | LS | 1 | \$20,000.00 | \$20,000 |
| 0975004 | Mobilization and Project Close Out | LS | 1 | \$20,000.00 | \$20,000 |
| 0976002 | Barricade Warning Lights - High Intensity | DAY | 90 | \$1.00 | \$90 |
| 0977001 | Traffic Cone | EA. | 40 | \$50.00 | \$2,000 |
| 0978002 | Traffic Drum | EA. | 20 | \$75.00 | \$1,500 |
| 0979003 | Construction Barricade - Type III | EA. | 6 | \$140.00 | \$840 |
| 0980001 | Construction Staking (1%+/-) | LS | 1 | \$15,000.00 | \$15,000 |
| 0981101 A | Opposing Traffic Lane Divider | EA. | 0 | \$120.00 | \$0 |
| 1206023 A | Removal and Relocation of Existing Signs | LS | 1 | \$500.00 | \$500 |
| 1208931 A | Sign Face Sheet Aluminum (Type IX Retroreflective Sheeting) | S.F. | 15 | \$50.00 | \$750 |
| 1208932 A | Sign Face Sheet Aluminum (Type IV Retroreflective Sheeting) | S.F. | 5 | \$40.00 | \$200 |
| 1209114 | Hot Applied Painted Pavement Marking -4" Yellow | L.F. | 100 | \$0.20 | \$20 |
| 1209131 | Hot Applied Painted Legend, Arrows and Markings | S.F. | 0 | \$4.00 | \$0 |
| 1210101 | 4" White Type I Epoxy Resin Pavement. Markings | L.F. | 100 | \$0.50 | \$50 |
| 1210102 | 4" Yellow Type I Epoxy Resin Pavement. Markings | L.F. | 100 | \$0.50 | \$50 |
| 1210105 | Epoxy Resin Pavement, Markings, Symbols And Legends | S.F. | 25 | \$4.00 | \$100 |
| 1220027 | Construction Signs | S.F. | 200 | \$12.00 | \$2,400 |
| 1302051 A | Reset Valve Box (Water Main) | EA. | 0 | \$200.00 | \$0 |
| 1700001 A | Service Connections | EST. | 0 | \$50,000.00 | \$0 |
| | SUBTOTAL PARTICIPATING CONTRACT ITEMS | | | | \$681,955 |
| | Contingencies (20%+/-) | LS | 1 | | \$136,391 |
| | Incidental (10%+/-) | LS | 1 | | \$68,196 |
| | TOTAL PARTICIPATING CONSTRUCTION COST | | | | \$886,542 |
| | BID ALTERNATE NO.1 (NON_PARTICIPATING) | | | | |
| 1301964 A | 18" Ductile Iron Casing with 12" Water Main | LS | 0 | \$15,000.00 | \$0 |
| | SUBTOTAL NON-PARTICIPATING CONTRACT ITEMS | | | | \$0 |
| | TOTAL PROJECT CONSTRUCTION COST | | | | \$886,542 |

NOTE: The Above Estimate Does Not Include Rights-of-Way Cost.

Item 0201001 - Clearing and Grubbing was for limited trees - 2 days

Strobel Road Sidewalks

29-0196-0A-P145
September 13, 2019

Mr. William Maurer
Town Engineer
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

1.5 m in 2021
const.

**Re: Proposal for Sidewalks along Strobel Road Design Services
Trumbull, Connecticut**

Dear Bill:

Tighe & Bond (T&B) understands that the Town of Trumbull (Town) would like to add sidewalks along Strobel Road. Currently, there is a sidewalk on the south side of Strobel Road along the High School property which will be rebuilt as 5-foot wide bituminous concrete sidewalk as part of the Strobel Road Reconstruction project.

This proposal will address construction new sidewalks from the most eastern driveway of the High School to Booth Hill Road. The proposed sidewalk would be approximately 5,430 linear feet in length and may need not be able to be placed continuously on one side of the roadway do to topographic limits, utility pole and tree interference, other landscape features and the willingness of property owners to agree to easements.

We understand that there is a strong community demand for this project, so we have included several public information meetings in our scope.

We have prepared the following scope of services for you to review:

Scope of Services

Task 1: Conceptual Design

1. Attend a project kickoff meeting to discuss the parameters of the project
2. Based on the parameters established at the of the kickoff meeting, prepare a conceptual layout of the proposed sidewalk. We will use the plans previously prepared for Strobel Road project as a base for this conceptual plan. The conceptual plan will include options for either side of the road.
3. Prepare an opinion of probable construction cost of the conceptual plans and options.
4. Meet with the Town to discuss the conceptual plans.
5. Finalize the conceptual plans based on the Towns review.
6. Prepare and present the project at a public information meeting. (see Task 6)

Task 2: Preliminary Design (30%)

1. Prepare Title Sheet, Existing Condition Plans and General Information Plan.
2. Prepare Layout Plans and Construction Plans detailing the construction associated with the sidewalk. We assume there will be 10-11 layout plans.

Tighe&Bond

3. Assess the need for retaining walls to support the sidewalk along cut or fill slopes. Develop a General Plan for the proposed retaining wall(s) layout. We have assumed the walls will be less than 5 feet in height and will be a segmental block type construction.
4. Prepare an Opinion of Probable Construction Cost (OPC) based on CTDOT Items and recent itemized cost data.
5. Meet with the Town to discuss the conceptual plans.
6. Prepare and present the project at a public information meeting. (see Task 6)

Task 3: Semi-Final Design (90%)

1. Update general information drawings to address design review comments.
2. Update the layout plan and construction plan to reflect preliminary design review comments and to include the detail required at the Final Design submission level. The plans will include:
 - a. Cover Sheet
 - b. General notes and legends
 - c. Layout sheets
 - d. Maintenance and protection of traffic
 - e. Signing plans
 - f. Soil Erosion Control Plans
 - g. Cross-sections
 - h. Construction Details
3. Update the retaining wall general plan(s) illustrating the layout of the retaining wall. Develop limited design details to provide the Contractor with information to facilitate the design-build process.
4. Prepare special provisions based on Town of Trumbull standards.
5. Assemble the Standard Details drawings to support the design.
6. Update the opinion of probable construction cost.
7. Prepare and present the project at a public information meeting. (see Task 6)

Task 4: Final Design - Construction Documents (100%)

Following the completion of the Final Design and approval by the Town and CTDOT, Tighe & Bond will prepare final Construction Documents to facilitate procurement of a Contractor by the Town. The Construction Documents will include construction drawings and special provisions that address the Final Design review comments and describe the proposed work. The following tasks are provided to prepare the Construction Documents:

1. Prepare final construction drawings that incorporate the Town and CTDOT comments on the Final Design submission.

2. Prepare the final special provisions that incorporate the Town and CTDOT comments on the Final Design submission.
3. Provide the bid-ready construction documents to the Town in PDF format to support the Town's procurement process.

Task 5: Utility Coordination

We will contact the existing utility companies to determine possible impacts from the proposed road construction. The utilities will include the following:

- Electric: United Illuminating
- Gas: Southern Connecticut Gas
- CATV: Charter Communications
- Telecommunications:
 - Frontier Communications of Connecticut
 - Fiber Technologies Network, LLC
 - Lighttower Fiber Networks
- Water: Aquarion Water Company of Connecticut

We will meet with the utility representative in the field to discuss the project and potential impacts of the existing utilities on the project and determine if relocations are necessary.

Task 6: Public Information Meetings and Land Use Board Meetings

Attend the following public information meetings throughout the course of the project. We will prepare meeting summaries documenting the results of the meetings, as necessary. We anticipate the following meetings:

- Public Information meeting at the conceptual design completion (assume 1)
- Public Information meeting at the 30% design completion (assume 1)
- Public Information meeting at the 90% design completion (assume 1)
- Trumbull Police Commission (for temporary Maintenance and Protection of Traffic and detours) (assume 1)
- Trumbull Planning & Zoning Commission (assume 2)
- Trumbull Inland Wetlands Commission (assume 2)

Task 7: Easement Assistance

We have assumed that the Town will take the lead in securing easements required for the sidewalk project and that would include meeting with the property owners, and preparing the required survey maps. It has been our experience that the Town may need technical assistance during the easement negotiation period such as the design engineer meeting with the property owners in the field to delineate the impacts of the easement.

Task 8: Bid Assistance (final scope to be determined after final approval)

Task 9: Construction Administration Services (final scope to be determined after final approval)

Task 10: Construction Observation Services (final scope to be determined after final approval)

Assumptions and Exclusions

In an effort to provide you with a reasonable budget for the limited requested services, we have prepared a detailed scope of services based upon our understanding of the project scope. The following section describes critical assumptions and exclusions used in the development of our fee proposal.

1. It is assumed that the Town will provide all surveying requirement for the design and preparation of easement maps.
2. It is assumed that no Traffic analyses will be required for this project.
3. The number of meetings is limited to the number specifically stated in this proposal. An amendment for additional meetings can be provided if requested.
4. Responses to additional rounds of Town comments not specifically stated in this proposal are excluded.
5. T&B will utilize CTDOT Form 817, special provisions or Town Standards for all construction.
6. The potential size and scope of the retaining wall structure(s) is assumed to be no more than five feet high and we have assumed that a proprietary modular block wall will be utilized to retain the cut or fill slope. The design of a cast in place reinforced concrete wall is not assumed in the fee estimate.

Tighe&Bond

Fee

Tighe & Bond will perform these services on a time and expense basis in accordance with the conditions of RFP#6227. Based on the scope of work described above, we recommend the following initial budgets:

| Task | Description of Work | Fee |
|------------------------------------|---|-----------------|
| 1 | Conceptual Design | \$8,350 |
| 2 | Preliminary Design (30%) | \$9,300 |
| 3 | Semi Final Design (90%) | \$14,700 |
| 4 | Final Design-Construction Documents (100%) | \$9,950 |
| 5 | Utility Coordination | \$8,350 |
| 6 | Public Information Meetings and Land Use Board Meetings | \$8,000 |
| 7 | Easement Assistance | \$6,750 |
| | Reimbursables expenses (mileage, printing/copies) | \$600 |
| Total Design Services | | \$66,000 |
| 8 | Bidding Assistance | TBD |
| 9 | Construction Administration | TBD |
| 10 | Construction Observation | TBD |
| Total Construction Services | | TBD |

Services performed by subcontractors, materials purchased directly for this project, and permitting fees will be invoiced at cost plus ten percent. In the event that the scope of work is increased for any reason, the limiting fee to complete the work shall be mutually revised by written amendment. Our previous Terms and Conditions are made part of this letter agreement.

We greatly appreciate the opportunity to continue providing services to the Town. If you should have any questions, please contact Fred at (203) 712-1123, or Dana at (203) 712-1122.

Sincerely,

TIGHE & BOND, INC.



Alfred J. Mascla, Jr., P.E.
Senior Project Manager



Dana C. Huff, P.E.
Vice President

Enclosure: LOE Spreadsheet



Park St. Culvert

September 23, 2019

Mr. William Maurer, P.E., L.S.
Town Engineer
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Eng # 6

**RE: Park Street Culvert Replacement
Design Proposal and Budget**

Dear Mr. Maurer:

Luchs Consulting Engineers, LLC (Luchs) is pleased to submit the scope of work and budget for professional services needed to design modifications to existing twin 42" CMP culvert on Park Street below Router 25, and prepare the Contract Package for bidding.



Figure 1 Park Street Culvert – Twin 42" CMPs – Upstream Headwall

The existing twin 42" Corrugated Metal Pipes (CMPs) convey Belden Brook under Park St. below the Rt. 25 Expressway. The culvert is an older structure at the lower end of the Belden Brook watershed near the confluence with the Pequonnock River. The culvert is shown in the FEMA Flood Insurance Study to be overtopped in storms exceeding the 10 Year Event. Luchs would

provide On-Call engineering services to the Town on a Time and Expense basis. This project will be funded under the Town Capital program.



Figure 2 Corroded Invert and Scour Hole inside CMP culvert.

One barrel of the twin 42" CMP culvert is severely corroded and has a large scour hole under the culvert. Over time this will continue to erode and potentially cut off the residents along the end of Park St. when the culvert finally fails.

It is anticipated that approximately 50-100 linear feet of Belden Brook may be impacted upstream and downstream of the culvert. The Park St. culvert is part of the mapped FEMA Floodplain.

Proposed Improvements

Park St. is a dead end residential road located West of Rt. 25. It is anticipated that given the current structural capacity of the culvert that some form of culvert replacement will be required.

We assume that the following options would be evaluated as part of this project:

1. Prepare a Culvert Assessment of existing conditions.
2. Evaluate methods to improve culvert capacity or replace the existing culvert.

Park St. Culvert Replacement
Scope of Work and Budget

September 23, 2019

Page 3 of 5

3. Analyze existing culvert hydraulics and prepare new culvert design using HydroCAD or other culvert design software. Multiple culvert configurations will be checked.
4. Potentially design new roadway drainage (catch basins and pipes) at the intersection for lessened erosion and improved travel safety.
5. Develop water handling and construction phasing plans for proposed alternatives.
6. Prepare roadway plans with curbs and new guiderails, if necessary, installed in accordance with typical Town standards.
7. Provide signing and pavement markings along Park Street.
8. Seed areas disturbed during construction.

Design Services

Luchs will provide professional engineering design services to the Town of Trumbull for this project meeting the Town of Trumbull, ConnDOT, AASHTO and generally accepted design practices.

As detailed in the attached manhour matrix, Luchs work will follow the following phases:

- I. Preparation of Preliminary Design (30%)
- II. Preparation of Final Design and Contract Plans, Specifications and Estimate (PS&E)
- III. Construction Phase Services (To Be Determined)

The following assumptions were made in the preparation of the scope and budget:

- Luchs will engage a Certified Soils Scientist to delineate inland wetlands along the Belden Brook and prepare a report suitable for permit submissions.
- Luchs will conduct all survey tasks including all necessary topographic and property surveys.
- Luchs will prepare Property Maps (assumed 2) that may be needed for Proposed Grading and Drainage Easements.
- Luchs will engage a Geotechnical Engineer to prepare two soil borings and provide design recommendations at the culvert.
- Luchs would prepare support information for a Trumbull Planning and Zoning Meeting (if necessary) and a Trumbull Inland Wetlands Meeting. The Trumbull Engineering Department would prepare the actual application.
- The Maintenance & Protection of Traffic measures would use alternating one-way traffic to maintain access for residents when the culvert is being modified. A temporary bypass may have to be created due to the narrow width of the road at that point.
- The proposed culvert modification will be designed with a match existing culvert inverts and wing walls. Survey of the stream would be limited to immediately upstream and downstream (50'-100').
- One Public Information Meeting is anticipated. Luchs will prepare presentation material and present the project to the public.

- FEMA Flood Study Flows will be used for design hydrology.
- A standard culvert analysis will be prepared in accordance with FHWA Hydraulic Design Series Number 5 (HDS5), Hydraulic Design of Highway Culverts.
- Up to Two (2) Easement Maps are proposed.
- It is assumed that the following tasks will not be required:
 - Traffic crash data collection and analysis.
 - CT DEEP or Army Corps Permits.
 - HEC-RAS analysis of Belden Brook.
 - FEMA Letter of Map Revision.
 - Construction Stormwater Permit (DEEP).
 - Hazardous Material identification or remediation.
 - Intersection re-grading of Hedgehog Road.
 - Calculation of Service Life of Proposed Improvements.
- The Town will provide the Front End of the Final Bid Specifications Package.
- The project will be administered and reviewed by the Town.

Deliverables

- Existing Topographic and Property Survey
- Soils Scientist's Report and Wetland Delineation
- Culvert Condition Survey
- Soil Borings and Geotechnical Report
- Grading and Drainage Easement Maps and Legal Descriptions
- Road Plan and Profile
- Culvert Plan and Profile
- Culvert Details
- Roadway Grading and Drainage Plan
- Drainage Details
- Sediment and Erosion Control Plan
- Sediment and Erosion Control Details
- Paving and Guiderail Details
- Utility Plan and Details for coordination
- Water Handling Plan
- Maintenance and Protection of Traffic Plan
- Design Report
- Quantity Estimates
- Cost Estimates
- Written Technical Specifications
- Bid Form

Budget Proposal

Luchs Consulting Engineers, LLC will perform these services on a Time and Expense basis in accordance with the conditions of RFP # 6227, as detailed below:

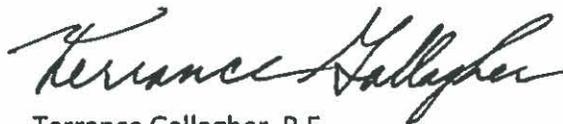
| | |
|--------------------------------|-----------|
| I. Survey | \$ 5,300 |
| II. Preliminary Design | \$ 23,600 |
| III. Final Design | \$ 36,300 |
| IV. Bid Document Preparation | \$ 7,900 |
| V. Environmental Permitting | \$ 10,500 |
| VI. Geotechnical Investigation | \$ 8,500 |

| | |
|--------------|------------------|
| TOTAL | \$ 92,100 |
|--------------|------------------|

We are looking forward to starting work on this important project for the Town of Trumbull and working with you and your staff on its successful completion.

Should you have any questions or require additional information, please call me at (203) 379-0320 Ext 242.

Sincerely,
LUCHS CONSULTING ENGINEERS. LLC.



Terrance Gallagher, P.E.
Senior Civil Engineer

TG:Q:\Marketing\Luchs Marketing\RFQs\Trumbull - Park St. Culvert\Proposal\PROP Park St. Culvert 9-23-19.docx

CIP 2020 - 2024

OTHER

**(Economic Development -
Engineering Projects**

Other - Econ. Development

Church Hill Road

E.D. #1 (Church Hill Rd.)



Prep'd Date 3/15/2017 By TAS
 Ch'kd Date 3/15/2017 By AJM
 Town of Trumbull, CT
 Funds _____
 Town No. _____
 Project No. 29-0196-99
 Sheet No. 1 of 1

**Preliminary Opinion of Probable Cost
for the Construction of**

Project Description Proposed Community Center
Old Church Hill Rd, Trumbull, CT

**CONCEPT OFF-SITE ROADWAY IMPROVEMENTS
(SEE SHEET C1.01)**

| No. | Item | Unit | Quantity | Price | Amount |
|----------|--|--------|----------|--------------|------------------|
| 0202001 | Earth Excavation | CY | 170 | \$40.00 | \$6,800 |
| 0202101 | Rock Excavation | CY | 50 | \$200.00 | \$10,000 |
| 0202529 | Cut Bituminous Concrete Pavement | LF | 200 | \$4.00 | \$800 |
| 0202531 | Removal of Bituminous Concrete | CY | 190 | \$10.00 | \$1,900 |
| 0212001 | Subbase Material | CY | 130 | \$75.00 | \$9,750 |
| 0403869A | Reclaim Asphalt Pavement | SY | 3,930 | \$8.00 | \$31,440 |
| 0406170 | HMA S1.0 | Ton | 925 | \$100.00 | \$92,500 |
| 0406171 | HMA S0.5 | Ton | 930 | \$100.00 | \$93,000 |
| 0406267 | Milling of HMA | SY | 935 | \$2.50 | \$2,338 |
| 0406236 | Material for Tack Coat | Gal | 220 | \$100.00 | \$22,000 |
| 0507001 | Type "C" Catch Basin | Each | 7 | \$3,000.00 | \$21,000 |
| 0507021 | Type "C" Catch Basin Double Grate | Each | 4 | \$6,000.00 | \$24,000 |
| 0507656 | Storm Manhole | Each | 1 | \$3,500.00 | \$3,500 |
| 0507781 | Reset Manhole | Each | 3 | \$500.00 | \$1,500 |
| 0651012 | 15" RCP - Storm Drainage | LF | 300 | \$55.00 | \$16,500 |
| 0651746 | 12" PVC - Storm Drainage | LF | 700 | \$60.00 | \$42,000 |
| 0811002A | Bituminous Concrete Curb | LF | 2,360 | \$5.00 | \$11,800 |
| 0921001 | Concrete Sidewalk | SF | 2,150 | \$20.00 | \$43,000 |
| 0922501 | Bituminous Concrete Driveway | Ton | 60 | \$155.00 | \$9,300 |
| 0939001 | Sweeping for Dust Control | Hour | 100 | \$125.00 | \$12,500 |
| 0942001 | Calcium Chloride for Dust Control | Gal | 2,500 | \$1.30 | \$3,250 |
| 0943001 | Water For Dust Control | M. Gal | 1,000 | \$2.00 | \$2,000 |
| 0944002 | Furnishing and Placing of Topsoil | SY | 1,350 | \$5.00 | \$6,750 |
| 0950015 | Turf Establishment | SY | 1,350 | \$2.00 | \$2,700 |
| 0970006A | Traffic Person (Municipal Police Officer) | Hour | 1,280 | \$75.00 | \$96,000 |
| 1210101 | 4" White Epoxy Resin Pavement Marking | LF | 1480 | \$0.60 | \$888 |
| 1210102 | 4" Yellow Epoxy Resin Pavement Marking | LF | 2210 | \$0.60 | \$1,326 |
| 1210105 | Epoxy Resin Legend, Arrows & Markings | SF | 770 | \$5.00 | \$3,850 |
| | Traffic Signal | LS | 1 | \$225,000.00 | \$225,000 |
| | Landscaping | LS | 1 | \$30,000.00 | \$30,000 |
| | Subtotal | | | | \$827,392 |
| 0201001 | Clearing and Grubbing (3%) | LS | 1 | \$24,821.75 | \$24,822 |
| 0980000 | Construction Staking (2%) | LS | 1 | \$16,547.83 | \$16,548 |
| 0971001 | Maintenance and Protection of Traffic (4.0%) | LS | 1 | \$33,095.66 | \$33,096 |
| 0975002 | Mobilization (7.5%) | LS | 1 | \$62,054.36 | \$62,054 |
| | Subtotal | | | | 963,911 |
| 25% | Contingencies | | | | 240,978 |
| | CONSTRUCTION SUBTOTAL | | | | 1,204,889 |
| 6% | Construction Administration and Observation | | | | 72,293 |
| | CONSTRUCTION AND CA SUBTOTAL | | | | 1,278,000 |
| 12% | Engineering and Permitting | | | | 144,587 |
| | PROJECT TOTAL | | | | 1,423,000 |

Other - Econ. Development

Long Hill Green

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Economic Development - Pequonnock River Trail Extension to Church Hill Road

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Design costs for the installation of Pequonnock River Trail Extension to Church Hill Road in the vicinity of Potential Community Center.

What existing facilities or conditions will be affected by the project? How will this project improve these?

The project will connect the Pequonnock River Trail to Trumbull Hall Campus.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Design 2020; Construction 2021

Are there any outside funding sources, e.g., grants?

Town is looking to obtain Grant Funds (LOTICIP) for the project. Town would pay for design. Grant would pay for construction.

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|------------------------------|-----------------------|---------|---------|-----------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Design - PRT Trail Head | | | 180,000 | | | 180,000 |
| Construction- PRT Trail Head | | | | 1,801,000 | | 1,801,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

**Economic Development - Church Hill Road/Quality Road
Intersection Improvements**

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Traffic light installation with Intersection improvements at Church Hill Road and Quality Street.

What existing facilities or conditions will be affected by the project? How will this project improve these?

The project will improve the intersection at Church Hill Road and Quality Street. The light will facilitate the potential Community Center & Trail connection to Pequonnock River Trail.

Will this project necessitate staffing increases?

no

What is the general plan and timeline for completion?

2020-2022

Are there any outside funding sources, e.g., grants?

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|--|-----------------------|---------|-----------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| | | | | | | - |
| Construction - Church Hill Road/Quality Road Intersection Improvements | | 144,587 | 1,277,182 | | | 1,421,769 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

E.D. #1

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Economic Development - Long Hill Green
Connection/Patio/Parking

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Long Hill Green Connectivity

What existing facilities or conditions will be affected by the project? How will this project improve these?

The construction of sidewalks along Main Street from Whitney to Gisella on the westside and from Whitney to the northside of the existing Marisa Property will allow safe walkability to pedestrians.

Will this project necessitate staffing increases?

What is the general plan and timeline for completion?

Are there any outside funding sources, e.g., grants?

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Long Hill Connectivity - Design/Construction - Connection from Whitney To Governors Ridge & Former Marissa's Restaurant 5 | | 415,000 | | | | 415,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

ED # 2

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 11/27/19

DEPARTMENT

Economic Development - White Plains Trail Connection

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Project elements include:

1. Modifications and signage to the commuter lot to create a dedicated trail head
2. Instalation of sidewalks to the Twin Brooks area to connect the trail in both directions
3. Footbridge installation

What existing facilities or conditions will be affected by the project? How will this project improve these?

Connection fro

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2021-2024

Are there any outside funding sources, e.g., grants?

Possible grant

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---|-----------------------|---------|---------|---------|---------|---------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Design - sidewalk connection from State Parking Lot to Twin brooks Park on WhitePlains road | | 160,800 | | | | 160,800 |
| Construction - sidewalk connection from State Parking Lot to Twin brooks Park on WhitePlains road | | | 804,000 | | | 804,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)



STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION
2800 BERLIN TURNPIKE, P.O. BOX 317546
NEWINGTON, CONNECTICUT 06131-7546
Phone: (860) 594-2047



January 11, 2018

E.D. # 2

Ms. Vicki Tesoro, First Selectwoman
Town Hall
5866 Main Street
Trumbull, CT 06611

Grant \$400,000

Dear First Selectwoman Tesoro:

Subject: Commitment to Fund Letter
Community Connectivity Grant Long Hill Green Village District
Pedestrian Safety and Access Project
State Project No. 0170-3513
Town of Trumbull

On August 9, 2018, the Town of Trumbull was awarded a grant under the Community Connectivity Grant Program (CCGP) by the State of Connecticut, Department of Transportation (Department).

The Department hereby commits to fund eligible project costs up to the accepted grant amount of \$400,000, based on the estimated costs provided by the Municipality.

This Commitment to Fund is subject to general conditions including, but not limited to the following:

1. The project is to be administered by the Municipality in accordance with the CCGP Guidelines. The guidelines are available at the following: www.ctconnectivity.com under the CCGP tab at the top.
2. The project costs identified in this Commitment to Fund letter are based on the requested amount from the CCGP application. It is understood that the Department has capped CCGP participation in this project at the application estimate and that any additional project costs will be the responsibility of the Municipality. This capped amount may be different than the actual grant payment, which will be based on the approved low bid. The Municipality will be allowed a maximum of 10% for contingencies and 10% for incidentals up to the capped amount.
3. Should the Municipality elect to use municipal forces to perform the construction, a request should be made to the Department with the final design submission.
4. Any project scope revisions must be reviewed and approved by the Department.

| |
|----------|
| E.D. # 2 |
|----------|

5. Upon completion of project design activities, and prior to issuing a notice to advertise/proceed, the Municipality must forward a Final Design Submission to the Department which includes the following:
 - a. Complete set of final project plans
 - b. Specifications
 - c. Contract documents
 - d. Final Construction Cost Estimate
 - e. Final Design Submission Documentation Form (template attached)
 - f. Completed General Municipal Certification for Design Activities Form (template attached)

A digital submission via e-mail is preferred.

6. The Municipality must execute and deliver a Project Authorization Letter (PAL) Issued pursuant to the Master Municipal Agreement for Construction Projects and comply with its terms. The PAL will be forwarded to the Municipality for execution subsequent to the receipt of the Final Design Submission package by the Department.

This commitment is further subject to the following project specific conditions:

1. This project may require environmental permits. In accordance with the CCGP Guidelines, the Municipality will be responsible for the acquisition of all environmental permits that may be required. Please be advised that any project that involves work within waters or wetlands may require State and/or Federal environmental permits. It is critical that the Municipality and/or their consultant contact the Connecticut Department of Energy and Environmental Protection (DEEP) Land and Water Resources Division at 860-424-3019, early in the design process to discuss permitting requirements, and to identify specific concerns and design considerations. Failure to establish early communication with DEEP may result in significant time delays in the permitting process, due to the need for design changes and/or denial of permit applications. More information can be found on DEEP's Environmental Permitting Process website at:
https://www.ct.gov/deep/cwp/view.asp?a+2709&q+324232&deepNav_GID=1643.
2. This project may require utility relocations. Coordination with utility companies who have facilities within the project area should begin early in the design process.
3. This project may require work to be performed within the State-owned right-of-way. Any work within or affecting state right-of-way will require an encroachment permit. It is imperative that the design of the improvements proposed under this project be coordinated with the appropriate Department District Office during the design and construction phase. Therefore, it is requested that the municipality contact the Department District Special Services Office listed below early in the design process to review and coordinate the proposed improvements. More information on the encroachment permit process and be found at:
<https://www.ct.gov/dot/cwp/view.asp?A=1394&Q=259544>.

DISTRICT 3 MAINTENANCE

**Mr. Paul Holmes, Special Services Section Manager
Bureau of Highway Operations and Maintenance
140 Pond Lily Avenue
New Haven 06515
Tel: 203-389-3010
Permit Office - Tel: 203-389-3000 or email to Tracy.May@ct.gov**

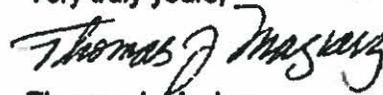
E.D. # 2

Please be informed that, in accordance with the CCGP Guidelines, the Department has initiated an Environmental Screening Review for this project to assist the Municipality in identifying items relative to natural resources, and historical/archeological resources, etc. that may need to be investigated or addressed during the design phase. The Environmental Screening Review is expected to be completed within thirty days (30) days from the date of this letter. The results will be forwarded to the Municipality, upon completion.

If the Municipality accepts this Commitment to Fund, the Municipal Chief Administrative Officer must sign below and return a copy within thirty (30) days from the date of this letter. Transmission via e-mail is acceptable.

If you have any questions, please contact the Project Manager, Mr. Patrick Zapalka, at 860-594-2047 or CTDOT.CCGP@ct.gov.

Very truly yours,



Thomas J. Maziarz
Bureau Chief
Policy and Planning

Concurred by Vicki A. Tesoro Date 1/25/19

Print Name: Ms. Vicki Tesoro, First Selectwoman

Enclosure

cc: Rina Bakalar (Trumbull)
Executive Director METROCOG

E. D.
White Plains Rd.
Trail Connection

**White Plains
Road
Sidewalks**

Trumbull, CT

VERIFY SCALE
DATE: 11/13/19
BY: [Signature]
CHECKED: [Signature]
SCALE: AS SHOWN

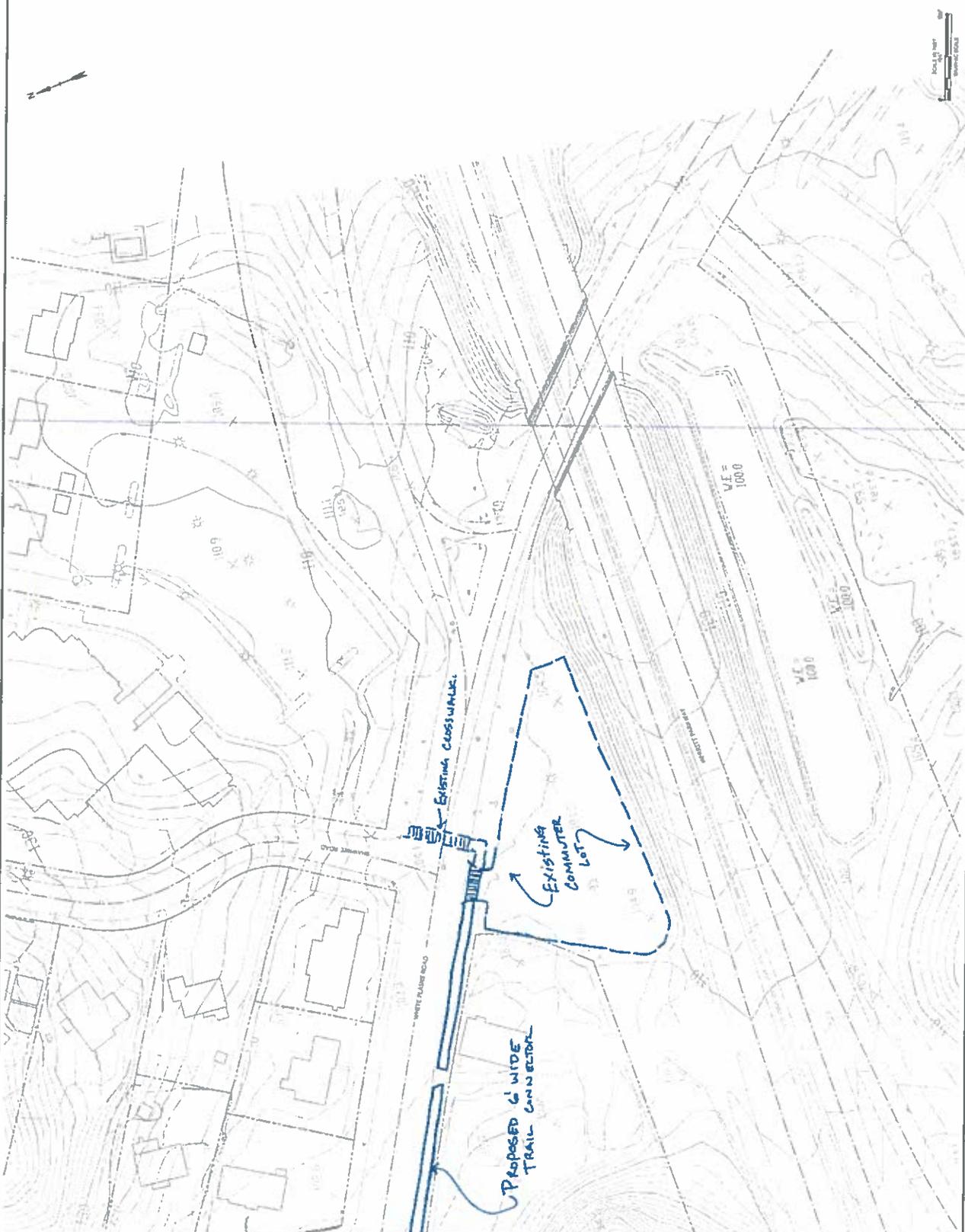
6-17-19

| NO. | DATE | DESCRIPTION |
|-----|----------|-------------------|
| 1 | 11/13/19 | ISSUED FOR PERMIT |
| 2 | 06/17/19 | ISSUED FOR PERMIT |
| 3 | 06/17/19 | ISSUED FOR PERMIT |
| 4 | 06/17/19 | ISSUED FOR PERMIT |
| 5 | 06/17/19 | ISSUED FOR PERMIT |
| 6 | 06/17/19 | ISSUED FOR PERMIT |
| 7 | 06/17/19 | ISSUED FOR PERMIT |
| 8 | 06/17/19 | ISSUED FOR PERMIT |
| 9 | 06/17/19 | ISSUED FOR PERMIT |
| 10 | 06/17/19 | ISSUED FOR PERMIT |

EXISTING CONDITIONS

SCALE: 1" = 30'

C3.00



MATCH LINE SHEET C3.00

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WPCA

**ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST
 CONTRACT V - SOUTH NICHOLS AREA
 TOWN OF TRUMBULL, CONNECTICUT
 SANITARY SEWER SYSTEM
 Contract 5**

| Item | Qty | Unit | Unit Price | Amount |
|---|--------|------|------------|-----------------------|
| SANITARY SEWER | | | | |
| Clearing and Grubbing | 1 | LS | \$ 5,000 | \$ 5,000 |
| 6" PVC SAN. LATERALS | 3,805 | LF | \$ 60 | \$ 228,300 |
| STRUCTURAL SUPPORT FOR TRENCH/MANHOLES | 0 | LS | \$ 400,000 | \$ - |
| 2" FORCE MAIN | 1,175 | LF | \$ 40 | \$ 47,000 |
| Individual Lot Pump System | 13 | Each | \$ 7,500 | \$ 97,500 |
| 4" FORCE MAIN (40% phase 1 and 60% phase5) | 920 | LF | \$ 50 | \$ 46,000 |
| 8" PVC SS 0-10' | 6,810 | LF | \$ 90 | \$ 612,900 |
| 8" PVC SS 10-15' | 2,861 | LF | \$ 95 | \$ 271,795 |
| 8" PVC SS 15-20' | 0 | LF | \$ 125 | \$ - |
| 8" DIP SS 0-10' | 0 | LF | \$ 85 | \$ - |
| 12" PVC SS 0-10' | 675 | LF | \$ 110 | \$ 74,250 |
| 12" PVC SS 10-15' | 1,549 | LF | \$ 141 | \$ 218,409 |
| 12" PVC SS 15-20' | 715 | LF | \$ 200 | \$ 143,000 |
| 6" PVC TRENCH DRAIN | 86 | LF | \$ 25 | \$ 2,150 |
| 48" SMH 0-10' | 55 | EA | \$ 2,400 | \$ 132,000 |
| 48" SMH 10-15' | 20 | EA | \$ 2,400 | \$ 48,000 |
| 48" SMH 15-20' | 6 | EA | \$ 4,500 | \$ 27,000 |
| 48" SMH 20-25' | 0 | EA | \$ 5,500 | \$ - |
| 48" SAN. DROP MH 10-15' | 6 | EA | \$ 3,600 | \$ 21,600 |
| 48" SAN. DROP MH 15-20' | 1 | EA | \$ 5,000 | \$ 5,000 |
| 48" SAN. DOGHOUSE MH 0-10' | 0 | EA | \$ 2,500 | \$ - |
| 48" SAN. DOGHOUSE MH 20-25' | 0 | EA | \$ 3,000 | \$ - |
| 60" SAN. DROP MH 0-10' | 0 | EA | \$ 4,000 | \$ - |
| 60" SAN. DROP MH 10-15' | 0 | EA | \$ 4,000 | \$ - |
| Sanitary Sewer Pump Station (complete) (40% phase 1 and 60% phase5) | 1 | LS | \$ 200,000 | \$ 200,000 |
| 6" CONC. CHIMNEYS | 193 | VF | \$ 250 | \$ 48,250 |
| CONC. ENCASEMENT | 0 | CY | \$ 300 | \$ - |
| STREAM, RIVER & CULVERT CROSSING | 30 | LF | \$ 200 | \$ 6,000 |
| TEMPORARY PAVEMENT REPAIR | 2,613 | SY | \$ 24 | \$ 62,706 |
| SAWCUT BITUMINOUS PAVEMENT | 24,898 | LF | \$ 3 | \$ 74,694 |
| PAVEMENT REPAIR (4") | 10,451 | SY | \$ 35 | \$ 365,787 |
| PAVEMENT REPAIR (9") | 1,803 | SY | \$ 90 | \$ 162,280 |
| TRENCH EXCAVATION - ROCK | 3,744 | CY | \$ 100 | \$ 374,400 |
| EASEMENTS | 1 | LS | \$ 15,000 | \$ 15,000 |
| TRAFFIC PERSON (MUNICIPAL POLICE) | 1,035 | HR | \$ 75 | \$ 77,594 |
| Subtotal: | | | | \$ 3,366,616 |
| Lump Sum Items (5%): | | | | \$ 168,331 |
| 20% Contingency: | | | | \$ 673,323 |
| Sanitary Sewer Construction Subtotal: | | | | \$ 4,376,601 * |
| Surveying, Engineering and Permitting 5%: | | | | \$ 214,621 * |
| Construction Administration and Observation 8%: | | | | \$ 350,128 * |
| Total: | | | | \$ 5,647,550 |

Note: These costs are based on a conceptual plan, NOT 100% construction documents.

"This is an engineer's Opinion of probable Construction Cost (OPCC). Tighe & Bond has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the estimates of probable construction costs are made on the basis of the Tighe & Bond's professional judgment and experience. Tighe & Bond makes no guarantee nor warranty, expressed or implied, that the bids or the negotiated cost of the Work will not vary from this estimate of the Probable Construction Cost."

Total = \$4,941,347

CIP 2020 - 2024

Fleet

EMS Fleet

Dayanara Aviles

From: Leigh Goodman
Sent: Thursday, November 21, 2019 4:07 PM
To: Dayanara Aviles
Subject: RE: 5yr Capital Plan

The 2020 Sprinter will be approximately \$118 500. I am looking into numbers for the box remount and will have a more accurate picture over the next week, so I can give you a realistic estimate.

The other addition would be the EMS building and I am looking to John for clarity on this.

Thanks,
Leigh

Leigh Goodman
Town of Trumbull
Director of Emergency Medical Services
Paramedic, EMS-I

lgoodman@trumbull-ct.gov

Office: 203 452 5079
Mobile: 203 690 2427

CONFIDENTIALITY NOTICE:

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From: Dayanara Aviles <daviles@trumbull-ct.gov>
Sent: Wednesday, November 20, 2019 10:23 AM
To: Leigh Goodman <lgoodman@trumbull-ct.gov>
Subject: 5yr Capital Plan
Importance: High

Hi Leigh, do you have a list of the projects/equipment you added to the 5yr plan? I have two placeholders for EMS for an Ambulance – Sprinter in 2020 and an ambulance box each year (from 2021-2024). Do you have the final figures on those items, if you are adding them? Did you have any additional items to add? I am trying to consolidate all the submissions and update the final plan.

Thanks!

Fleet - HWY Snow Plow

Snow Plow Estimate

| | CY2020 | CY2021 | CY2022 | CY2023 | CY2024 |
|---|----------------|----------------|----------------|----------------|----------------|
| Chassis per state bid * | 100,000 | 105,000 | 108,150 | 111,395 | 114,736 |
| Sanders based on last plow purchase * | 80,000 | 84,000 | 86,520 | 89,116 | 91,789 |
| Body based on part purchase * | 10,000 | 10,500 | 10,815 | 11,139 | 11,474 |
| On-Spot Chains based on past purchase * | 5,000 | 5,250 | 5,408 | 5,570 | 5,737 |
| Misc. options | 5,000.00 | 5,250 | 5,108 | 4,781 | 5,264 |
| Total Estimate | 200,000 | 210,000 | 216,000 | 222,000 | 229,000 |

** All amounts rounded up to the nearest ten thousand*

Prepared for:
Doug Bogen
Town of Trumbull
366 Church Hill Rd
Trumbull, CT 06611
Phone: 203-452-5071
Mobile: 203-650-8053
E-Mail: dbogen@trumbull-ct.gov



Prepared by:
Greg Martinotti
FREIGHTLINER OF HARTFORD
222 ROBERTS STREET
EAST HARTFORD, CT 06108
Phone: 860-559-9547
E-Mail: GREG@FOHCT.COM

*A proposal for
Town of Trumbull*

*Prepared by
FREIGHTLINER OF HARTFORD
Greg Martinotti*

June 18, 2018

**Freightliner 114SD – Hook Lift Units
Per State Contract #: 14PSX0239**



Components shown may not reflect all spec'd options and are not to scale



Prepared for:
 Doug Bogen
 Town of Trumbull
 386 Church Hill Rd
 Trumbull, CT 06611
 Phone: 203-452-5071
 Mobile: 203-650-8053
 E-Mail: dbogen@trumbull-ct.gov



Prepared by:
 Greg Marlinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

Fleet # 1

QUOTATION - HOOK LIFT TRUCKS

PER STATE CONTRACT #: 14PSX0239

114SD CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK
 CUM L9 330 HP @ 2000 RPM, 2200 GOV RPM, 1000
 LB/FT @ 1400 RPM
 ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH
 PTO PROVISION
 RS-30-185 30,000# U-SERIES SINGLE REAR AXLE
 30,000# FLAT LEAF SPRING REAR SUSPENSION WITH
 HELPER AND RADIUS ROD
 DETROIT DA-F-20 0-5 20,000# FL1 71.0 KPI/3 74 DROP
 SINGLE FRONT AXLE
 20,000# TAPERLEAF FRONT SUSPENSION

114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL
 CAB
 4425MM (174 INCH) WHEELBASE
 7/16X3-9/16X11-1/8 INCH STEEL FRAME
 (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
 1900MM (75 INCH) REAR FRAME OVERHANG
 PARTIAL INNER FRAME REINFORCEMENT AT FRONT
 SUSPENSION
 BODY COMPANY INSTALLED ADDITIONAL FRONT
 FRAME REINFORCEMENT FOR SNOW PLOW

| | | PER UNIT | | TOTAL |
|--|-------------------------|----------------------|-----------|-------------------|
| ITEM #: 1A <i>Chassis</i> | TOTAL # OF UNITS (2) | \$ 95,997.00 | \$ | 191,994.00 |
| ITEM #: 1H <i>30% discount</i> | TOTAL # OF UNITS (2) | (9,012.00) | \$ | (18,024.00) |
| ITEM #: 1J <i>\$96,401 less 20% disc.</i> | TOTAL # OF UNITS (2) | 77,121.00 | \$ | 154,242.00 |
| ITEM #: 1K <i>19,468.75 less 20% disc.</i> | TOTAL # OF UNITS (1) | 15,575.00 | \$ | 15,575.00 |
| CUSTOMER PRICE BEFORE TAX | | \$ 179,681.00 | \$ | 343,787.00 |
| TRADE-IN | | | | |
| TRADE-IN ALLOWANCE | | (0) | \$ | 0.00 |
| BALANCE DUE | (LOCAL CURRENCY) | \$ 179,681.00 | \$ | |

COMMENTS:

- Chassis will be invoiced upon delivery to body company. Payment is expected to be received 15 days of invoice.
- Body portion will be invoiced upon delivery of completed acceptable unit is made to The Town.
- Warranties will not begin until delivery of completed acceptable unit is made to The Town and placed into service.
- Any retro-fits to existing hook-lift units, additional sanders and/or plows needed to complete those units will need to be purchased directly from body vendor on a separate purchase order.

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.



State bid

EXHIBIT B, SP-16
PRICE SCHEDULE

Supplement 2

CONTRACT NO: 14PSX0239

| | |
|---|---------------------------|
| CONTRACTOR NAME: Freightliner of Hartford, Inc. | DOT ID # 1543572 |
| DELIVERY: 180 DAYS ARO | PROMPT PAYMENT TERMS: N/A |

| ITEM # | DESCRIPTION OF COMMODITY AND/OR SERVICES | UNIT OF MEASURE | TOTAL PRICE |
|--------|--|-----------------|--|
| 1. | <u>41,000 GVWR Single Axle Dump Trucks with Plows</u> <u>Fixed pricing for model years 2018, 2019 and 2020</u> | | |
| 1a. | 41,000 GVWR Conventional Cab, Single axle chassis with automatic transmission. Pursuant to revised (10/31/2017) specification. Make: Freightliner Model: 114SD | each | <u>1a. \$95,997.00</u> ✓ |
| 1b. | Steel 10 ft. 6 Cubic Yard severe duty dump body with front plow hitch installed. Pursuant to revised (10/31/2017) specification. Make: Viking Model: PL 1011 SD | each | <u>1b. \$42,680.00</u> |
| 1c. | Complete hydraulic system and controller installed. Pursuant to revised (10/31/2017) specification. Make: Cirus Model: ConnDOT closed system | each | <u>1c. \$14,995.00</u> |
| 1d. | Tarpping system installed. Pursuant to revised (10/31/2017) specification. Make: Roll Rite Model: Tarp Master 400 | each | <u>1d. \$1,991.00</u> |
| 1e. | 11 ft. Power angle snowplow with positive locking pawl and integral extended moldboard, metro full trip moldboard. Make: Viking Model: PRRL1136ME | each | <u>1e. \$6,633.00</u> |
| 1f. | Mid mount wing plow installed. | each | <u>1f. \$10,775.00</u> |
| 1g. | 12 ft. power angle snowplow with positive locking pawl and integral extended moldboard installed. Make: Viking Model: PRRL123645FE | each | <u>1g. \$7,460.00</u> |
| 1h. | Percentage discount off MSRP for chassis. | % off | <u>1h. 30% off</u> ✓ off chassis |
| 1i. | Percentage discount off MSRP for up fitting OEM repair parts. | % off | <u>1i. 30% off</u> ✓ options |
| 1j. | Percentage discount off MSRP for any Allied Equipment. | % off | <u>1j. 20% off</u> ✓ off search box on |
| 1k. | Hourly labor rate. | hour | <u>1k. \$98.00</u> ✓ upfitting of box trucks |

Fleet # 1

New England Truck Equipment LLC.

4 Barker Drive. Wallingford CT. 06492
Phone (203) 284-1657 Fax (203) 284-3802

“Quality starts with quality products”

| | | |
|-------------------------------|-----------------------|----------------------------|
| Quotation Number: 1889 | Date: 5/3/2015 | Subject: Hook lifts |
|-------------------------------|-----------------------|----------------------------|

To: Town of Trumbull
366 Church Hill Rd
Trumbull CT 06611

Attn: Doug Bogen
Ph: 203-452-5071
Fx: 203-452-5140

Cell: 203-650-8053
Email: dbogen@trumbull-ct.gov

| | | |
|-----------------|---------------------|------------------------|
| SHIP VIA | F.O.B. POINT | TERMS |
| Best way | Wallingford CT. | Purchase Order/ Net 30 |

| QTY | DESCRIPTION | Amount | Total |
|-----|---|---|--|
| 2 | We hereby submit the following quote for your review and approval: New American Palfinger HAD200M complete with the following; ¾" Rear pintle plate with 30 ton pintle hook and 2" receiver, H/D D-rings, factory supplied trailer plug, (NO GLAD HANDS), factory stop, tail and turn lights, poly rear fenders, custom "Stellar" type container stops, mild steel valve tank combination with hot shift PTO, direct mount load sense pump, stainless steel hydraulic lines with hydraulic hoses on short runs, in cab arm rest style control tower with air controls for body and plow functions as well as Freedom 2.0 electronic spreader control, front mount H/D plow hitch with ¾" side plates, auxiliary plow lights mounted on stainless steel brackets, dual additional rear facing LED work lights. | | |
| 2 | New Henderson 12' stainless steel sanders mounted on hook lift "A"-Frame and rails with extended flip up chute with manual winch, mild steel removable top screens. | | |
| 2 | New Monroe MPR39-39-57-11-ISCT Snow plows. | | |
| | All items complete, painted, installed and operational on customer supplied new compatible cab/chassis. 20% St CT Discount Amount | 96,401.25 -19,280.25 77,121.00 | 192,802.50 -38,560.50 <u>154,242.00</u> |
| 3 | Additional sanders & 2 plows matching above listed along with open center hydraulic manifolds and electronic conversions to accommodate added equipment 20% St CT Discount Amount | 46,250.00 -9,250.00 37,000.00 | 138,750.00 -27,750.00 111,000.00 |
| | We would like to thank you for the opportunity to quote you on your needs and look forward to your most valued order. Ron Burr New England Truck Equipment | | |

Acceptance of Proposal: The above prices, conditions and specifications are satisfactory and are hereby accepted.

Sign: _____ **Date:** _____



Bucks Fabricating A Deist Industries Co.
 3547 Perry Highway
 Hadley, PA 16130
 Fax: 724-253-3863
 800-233-0867
 www.bucksfab.com

Bill To
 Town of Trumbull
 5866 Main Street
 Trumbull CT 06611

Ship To
 Town of Trumbull
 366 Church Hill Road
 Doug Bogen (203)-650-8053
 Trumbull CT 06611

Fleet # 1

Quote

Date 12/7/2018
Quote # 37667
Expires 12/22/2018
Sales Rep Roseberry, Crystal
Terms Ex Works/Incoterms 2010
Payment Terms Net 30
Taxable PA, OH, CA, FL, ... F
Shipping Notes (For Cus...
Vehicle Make

| Item Number | Quantity | Description | Unit Price | Amount |
|-------------|----------|---|------------|-----------|
| Specialty | 2 | Specialty Chipper Body Container 12' Long, 72" High Sides (72" High Sides/10" Understructure-82" Overall Height*), 96" Wide, 19yd 3/16" Floor, 10 Ga Sides, Crossmembers on 16" Centers, 54" Hook-lift Set-up as Previous Orders With us, Front/Rear Wheels, Sealed Tailgate with Cam Latch and Posy Lock on the Gate, Sealed Tested, Seal Seal on Side Posts, Flat Expanded Metal Removable Roof, Primed/Painted Omaha Orange in Color Lead Time 6-8 Weeks on new Orders Units Would Ship Un-Stacked on a Semi-Trailer not a Roll-off Truck* | 8,400.00 | 16,800.00 |

This Quote is valid for 15 days from Quote Date.
All Orders are subject to Deist Terms and Conditions OS-100. See attached.
The product prices listed herein are based on current steel prices, if there is a 3% or greater shift in steel prices before this order is produced, we will notify you of any applicable changes in the costs of these products.

By providing your signature of approval above, you are acknowledging that the delivery address is correct and accurate. If the delivery location changes at the time of shipment or if the customer redirects a carrier to a destination which is more than 5 miles from the original delivery destination, additional delivery charges will apply.

| | | |
|-------------------------------------|---------------------------------------|-------------|
| Customer Approval Signature: | Subtotal | 16,800.00 |
| | Shipping Cost (Common Carrier) | 2,800.00 |
| | Total | \$19,600.00 |

cost per UNIT = \$10,000



37667

Mobile Command Center

**Office of Emergency
Management**

mmurphy@trumbull-ct.gov

**Town of Trumbull
Connecticut**



Trumbull Police Department
158 Edison Road
Trumbull, Connecticut 06611

203.452.5080
203.261-3665

Fleet # 7

July 10, 2019

Mrs. Vicki Tesoro
First Selectman
Town of Trumbull
5866 Main Street
Trumbull, CT 0661

Re: 5 Year Capital Improvement Plan

Dear Mrs. Tesoro,

Enclosed you will find a cost / benefit analysis for a new drivable command trailer for your consideration to be added to the five year capital plan. This much needed asset will be used to replace a near 20 year old towable trailer. A new drivable trailer will make for easier deployments and have upgraded technologies that will carry Trumbull's Emergency Services well into the future.

While I understand this is a costly item, the Office of Emergency Management will seek grant funding from multiple sources to help absorb some of the costs of this new command vehicle.

As you will see when you read the proposal this vehicle can serve multiple functions within emergency services. Its multiple functions and greater technological capabilities will help prepare Trumbull's first responders to be better equipped to handle both large scale incidents as well as plan and prepare for public events.

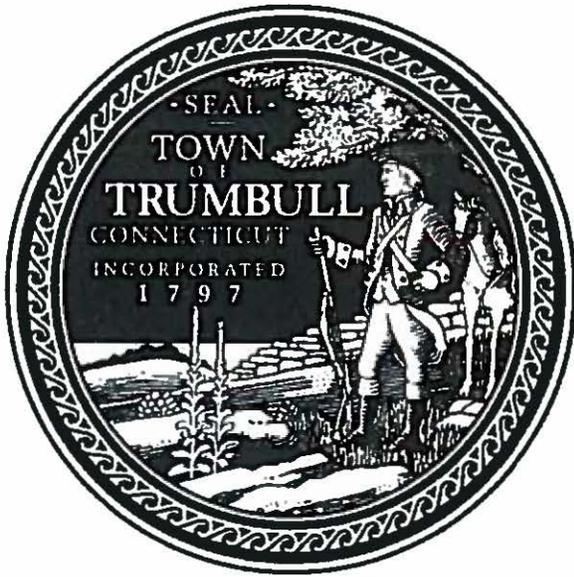
Thank you for your time and consideration. I look forward to having the opportunity to further discuss this project with you.

Kind regards.

Megan Murphy
Fire Marshal/Emergency Management Director
Town of Trumbull

Cc: Maria Pires, Director Finance
Michael Lombardo, Chief of Police
Leonard Scinto, Deputy Police Chief

Fleet # 7



Mobile Command Vehicle Evaluation

Town of Trumbull

July, 2019

COST/BENEFIT ANALYSIS

COST/BENEFIT ANALYSIS

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Fleet # 7

1.0 GENERAL INFORMATION

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1.1 Purpose

The Town of Trumbull has a vast array of top line emergency service equipment. This equipment provides safety to both the public and its first responders. However, there is one piece of safety equipment that is in need of evaluation. The Town of Trumbull provides emergency service operations to over 36,000 residents across 23.5 square miles. Unfortunately, emergency service personnel are limited in communication and command capabilities during comprehensive incident management operations. The purpose of this cost-benefit analysis is to determine and recommend the best available option for the Town of Trumbull to advance emergency service capabilities during these complex operations.

1.2 Scope

The information provided in this Cost Benefit Analysis (CBA) is used to determine which *Mobile Command Vehicle Evaluation* option is most feasible for the department. This information evaluates respective guidelines and standards, technological advancements, and grant/funding opportunities. Lastly, the scope of this analysis includes research from multiple sources, including national organizations. This provides in depth information permitting the Town of Trumbull to make a well informed investment.

1.3 Vehicle Responsibilities

With a proper mobile command vehicle, emergency service personnel have the ability to host all necessary operational functions while increasing interoperability and scene safety.

Specifically, mobile command vehicles become a critical resource during complex and high risk events. These events include, but are not limited to:

- Large scale joint operations incidents:
 - Westfield Mall
 - School based emergencies
 - Mass casualty incidents
 - Natural disasters/emergencies
 - Point of Distribution Center activities
- Back up Emergency Operation Center (EOC) activation
- Back up 911 Center
- Public/community events:
 - Trumbull Day
 - Memorial Day parade
 - Concerts at Indian Ledge
- Law enforcement operations:
 - Baricaded subjects

- Hostage negotiations
- Miscellaneous operational capacities:
 - Fire investigations
 - Accident reconstruction operations
 - Search and Rescue operations

1.4 System Overview

The following is a brief overview of the *Mobile Command Vehicle Evaluation* analyzed in this document.

- Responsible organization: Town of Trumbull
- System name or title: *Mobile Command Vehicle Evaluation*
- System question: What is the most feasible investment for the Town of Trumbull?

1.5 Project References

- *National Fire Protection Association*
- *Fairfax County Police Department*
- *Frontline Communications*
- *Federal Emergency Management Agency*
- *State of Connecticut Division of Emergency Management and Homeland Security*

1.6 Acronyms and Abbreviations

| | |
|----------|---|
| NFPA | National Fire Protection Association |
| FCPD | Fairfax County Police Department |
| FEMA | Federal Emergency Management Agency |
| CT DEMHS | State of Connecticut Division of Emergency Management and Homeland Security |
| MCV | Mobile Command Vehicle |
| EM | Emergency Management |
| PD | Police Department |

1.7 Points of Contact

1.7.1 Information

Ray Muller
Firematic Supply Co. Service Manager
raym@firematic.com
631-995-3242

Allen Nalley
Frontline Communications Regional Sales Manager
727-280-8801
analley@frontlinecomm.com

Megan Murphy
Fire Marshal / Emergency Management Director
203-650-8370
mmurphy@trumbull-ct.gov

Andrew Kingsbury
Deputy Emergency Management Director
203-856-0573
akingsbury@trumbullct.gov

Johnathan Matyasich
Fire Marshal Office Intern
484-824-0748
john.matyasich@gmail.com

1.7.2 Coordination

It is recommended that the Town of Trumbull develop a joint planning and specification development committee appointed by the First Selectman. It is recommended that this committee encompasses a diverse selection of representatives from various emergency service providers within the Town of Trumbull.

2.0 PROJECT OVERVIEW

2.0 PROJECT OVERVIEW

2.1 Assumptions and Constraints

This research was conducted under the assumption that the mobile command vehicle will be available to all emergency service organizations within the Town of Trumbull.

2.2 Methodology

All individual costs are estimated prices from Frontline Communications, based on similar vehicle designs. Estimated costs ensure compliance of all NFPA guidelines and recommendations. Additionally, a list of imperative components were established by various emergency service organizations to ensure adequate equipment resources are available to all personnel.

2.3 Evaluation Criteria

- Is the proposed technology likely to accomplish its purpose in the circumstances where it would be used? More specifically, is it technologically feasible and appropriate, given the financial and human resources available?
- Focusing on the financial aspects of the equipment, is it the most cost-effective option available?

2.4 Recommendations

It is recommended that the Town of Trumbull invest in a new mobile command center. This upgraded equipment and technology will be a significant benefit to the Town of Trumbull emergency service organizations. Additionally, it is recommended that the Town of Trumbull applies for the various grants listed within this analysis to assist with funding.

3.0 DESCRIPTION OF ALTERNATIVES

3.0 DESCRIPTION OF ALTERNATIVES

3.1 Current Mobile Command Center

Currently the Town of Trumbull owns a mobile command trailer. The current vehicle offers two rooms, one radio communication area and one meeting room, a bathroom, and a kitchenette. The walls throughout the vehicle are dry erase boards which have permanent stains. Additionally, the unit offers air conditioning powered via the onboard generator. However, the generator does not have the ability to power the radio systems, lights, and air conditioning units. Furthermore, there is no internet connections/capabilities available.

The current unit has two points of egress from the exterior. The outside of the vehicle has shown significant deterioration, including staining to the paint. There is also a leak in the roof above the bathroom which has lead to mold growing within the walls and ceiling of the vehicle. Lastly, the manual awning has multiple rips and tears causing it to be deemed non usable. The current vehicle is not in compliance with NFPA 1912 nor NFPA 1901.

3.2 Refurbish Current Command Center

If the current mobile command center is not replaced, it will need to be refurbished to ensure that its operational capacities align with the Town of Trumbull emergency service organizations objectives. This will include, but not be limited to: addition of multiple computer monitors; addition of docking areas for computers; addition of internet capabilities throughout vehicle; upgraded satellite equipment; service and inspection to propane tanks, water lines, air conditioning and heating units, and the water heater; repairs to the refrigerator, leaking roof, and awning; replacement of onboard generator and radio system capabilities; removal of mold throughout the vehicle; and the exterior will have to be repainted. If the current vehicle is refurbished, it will need to be in compliance with NFPA 1912.

3.3 Purchasing a New Mobile Command Center

The purchase of a new mobile command vehicle will provide upgraded technology, custom design, and interoperability. Additionally, the vehicle will be in compliance with NFPA 1901 in addition to possessing complete warranties on the vehicle and its components. The recommended vehicle will encompass: topline internet capabilities; computers and monitors; exterior monitor and deployment screen; upgraded radios; a meeting/conference space; separate radio communication/dispatch area; properly sized generators; solar panels; bump out areas to increase available workspace; telecommunication capabilities; electrical awning; heightened security features; aerial and perimeter security cameras; weather monitoring capabilities.

4.0 COSTS

4.0 COSTS

4.1 Estimated Costs

4.1.1 Refurbish Current Command Vehicle

At this time, there is not an exact estimate available due to multiple constraints. However, in order to ensure the vehicle is in compliance with NFPA standards, the estimate provided is in excess of \$150,000. It is important to note that this cost does not include the general servicing of the vehicles components due unknown repairs/replacements that will be required. This cost also does not include the upgraded technologies (radios, monitors, internet capabilities). The costs of upgraded technologies is well in excess of \$100,000.

Additionally, the Town of Trumbull will need to take into consideration the age of the current vehicle. NFPA 1901 recommends vehicles be replaced every 15 to 20 years. The current trailer is rapidly approaching 20 years of age. This means that after the refurbishment is complete, the Town of Trumbull will need to begin preparing for replacement of the vehicle.

4.1.2 Purchasing a New Command Vehicle

The estimated cost of purchasing a new command vehicle is \$800,000 dollars. This encompasses all components, including the upgraded radio systems. Additionally, this cost includes all available warranties for the vehicle and its components.

There are various grant opportunities listed within this assessment which will allow the Town of Trumbull to minimize the cost to taxpayers, while maximizing available resources.

This vehicle will be in complete compliance with NFPA 1901 standards.

5.0 Vehicle Comparison

5.0 VEHICLE COMPARISON

5.1 Interior Space

5.1.1 Current Command Vehicle

The interior of the current command center has two different rooms (one radio/dispatch room and one meeting/conference room), a kitchenette, and a bathroom. There is a leak in the roof, around the vent in the bathroom causing mold throughout different areas of the current trailer. This unit offers one TV monitor that connects to cable television. There are no internet or telephone capabilities within this unit.



Radio / Dispatch Area



Meeting/Conference Room



Meeting/Conference Room



Bathroom



Kitchenette



Bathroom Vent



Bathroom Light



Radio/Dispatch Room Light



Bathroom Toilet

5.1.2 New Command Vehicle

The interior of the new command vehicle will provide three separate rooms (one radio/dispatch room, one meeting/conference room, and one technology center), four slide out compartments to gain operational space, a kitchenette, and increased work surfaces. This unit also offers: three full height equipment racks; LED interior lighting in the ceiling, under cabinets, and at workstations; AV routing system for all intuitive touch panels; wireless mesh network; satellite data network connections; a recorded interview room; remote monitor processing equipment to view camera assets; video presentation system; map annotation system; full data and voice connectivity via harline and multiple wireless channels (cellular, satellite, and wireless bridge); dual internet networks (one encrypted and one non-encrypted); dual renderers for connectivity with tablets; drove routability system; local and satellite tv available throughout vehicle; independent cellular routing capabilities allowing the unit to act as an independent EOC.



Radio/Dispatch Room



Radio/Dispatch Room



Meeting/Conference Room



Technology Center



Kitchenette

5.2 Exterior Space

5.2.1 Current Command Vehicle

The exterior of the current command center has steadily deteriorated over recent years. The manual awning has multiple rips and tears, the paint has staining across the vehicle, there is minimal lighting around the exterior, posing a safety concern, and there is minimal security features. This unit offers two rooftop air conditioning units, a roof mounted satellite, and a generator. Additionally, the current command vehicle is a towable trailer that requires a properly sized pickup truck, and operator, to be available for its deployment.



Passenger Side



Driver Side

5.2.2 New Command Vehicle

The exterior of the new vehicle will offer various speciality components to compliment the resources that will be available to emergency service providers. This includes: exterior command screen and briefing monitor; lighting mast (for additional scene lighting); four 16 foot electric awnings (2 per side); day/night and thermal camera mast; day/night perimeter cameras (full 360-degree area surveillance); physical security with card readers at all points of egress; a weather station; five rooftop air conditioning units; four medium 8 foot slide outs (for additional space); and lockable storage compartments around the vehicles perimeter. This unit also offers a 25kW diesel generator as a backup to the roof mounted solar panels, and a custom compartment for battery storage. The new command vehicle is a drivable unit requiring less resources for deployment.



Passenger Side



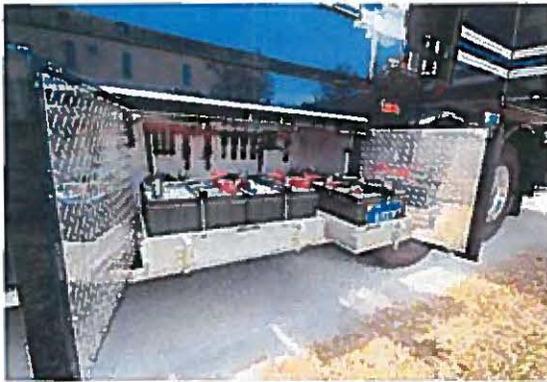
Driver Side



Exterior Monitor/Command Center



Rear of Vehicle



Custom Battery Storage



Front of Vehicle

6.0 Grant Information/Opportunities

6.0 GRANT INFORMATION / OPPORTUNITIES

6.1 Grant Information

It is recommended that the Town of Trumbull apply for various grants to cover the cost of the new mobile command center and its respective components. It is estimated that the Town of Trumbull will have access to an excess of 15 grant funding options available.

6.1.1 State of Connecticut Grants

The state of Connecticut offers the following grants:

- Emergency Management Performance Grant (EMPG)
- Homeland Security Grant Program (HSGP)

These grants can assist the Town of Trumbull in purchasing visual display monitors, tablets, smart phones, physical access security systems, generators, and camera systems for the vehicle.

6.1.2 Federal Emergency Management Agency (FEMA) Grant

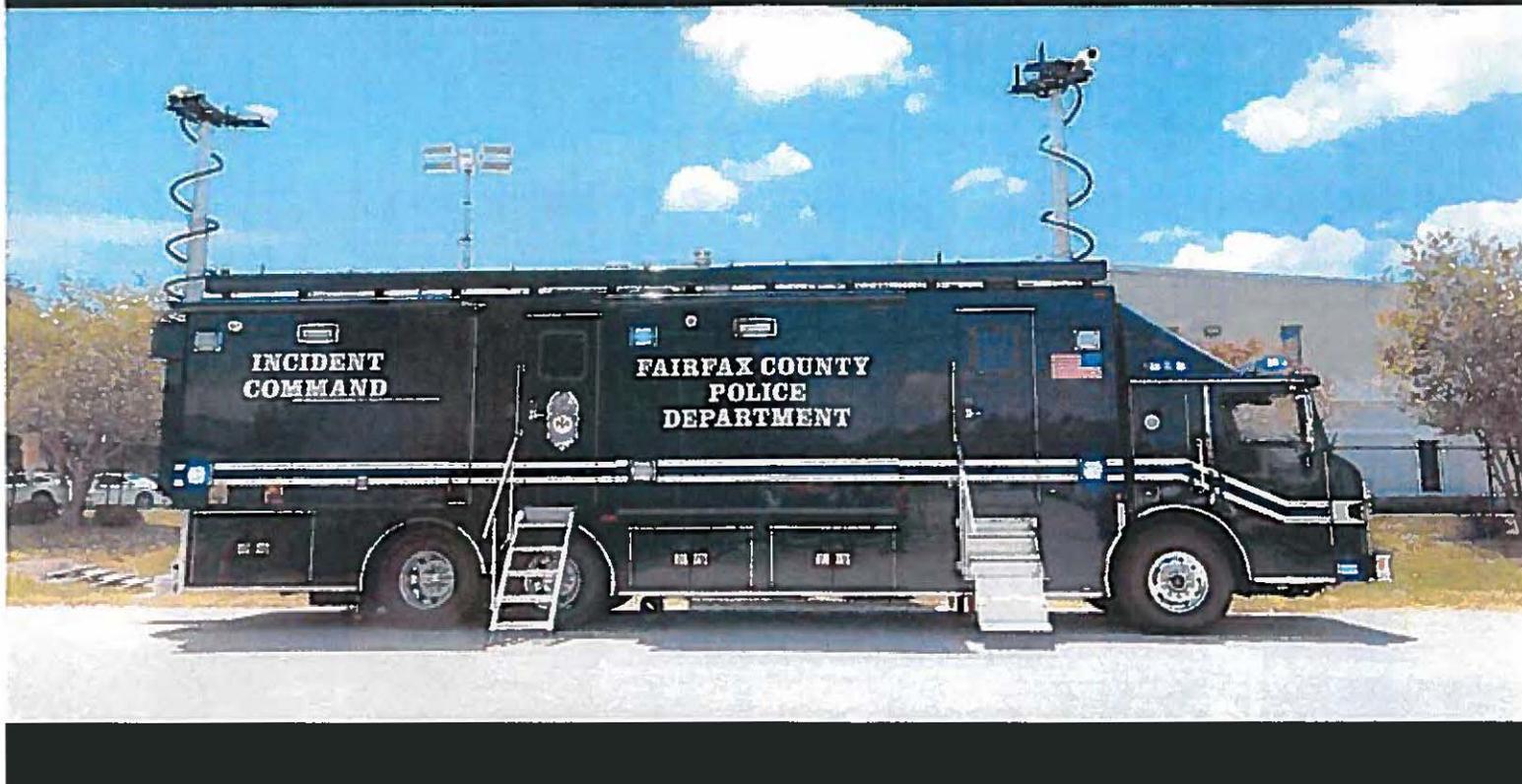
The Federal Emergency Management Agency provides a grant opportunity to invest in vehicles under the United States Fire Administration.

- Assistant to Firefighter Grant

This grant can assist the Town of Trumbull in purchasing the vehicle, radio systems, and various types of interoperability equipment.

6.1.3 U.S. Environmental Protection Agency (EPA)

The United States Environmental Protection Agency (EPA) offers various grants to assist communities and organizations in implementing alternative energy efforts. These grants can assist the Town of Trumbull in paying for the solar panels, interior lighting, and vehicle cost.



Expanding on Frontline's most popular command vehicle design, the C-40 series, the C-45X-4 Custom Chassis is Frontline's largest self-propelled vehicle with over 365 square feet and includes three entryways. This vehicle features four 8' slide-out sections that allow for maximum work space in the operations area and comfort in the conference area. This vehicle is fully customized and outfitted with a variety of premium vehicle options and sophisticated communications equipment.

The Fairfax County Police Department's C-45X-4 Incident Command Vehicle features a Pierce® Velocity custom chassis with a 37' custom body. The rear operations area has conference table seating for six, three workstations and additional bench seating. The forward conference area includes conference table seating for six, two additional workstations, a galley area and a dedicated communications control room. All workstations include voice, video, data and individual video routing capabilities.

A division of



Vehicle Profile

- Fairfax County Police Dept. C-45X-4



Vehicle Features

- Pierce® Velocity Custom Chassis
- 125" Completely smooth aluminum skin
- Four (4) Medium 8' slide outs
- Five (5) Roof top air conditioners
- 25kW Diesel Generator housed in a custom compartment engineered for maximum air flow and insulated for quiet operation.
- Fold-out step compartments (side & rear) with NFPA diamond plate and LED lighting
- Battery and charger compartment with batteries in heavy duty slide out trays
- Custom built power system and laser-etched power panel
- Three full-height equipment racks
- Custom Whelen emergency lighting and siren package
- Zico folding Quik-Ladder installed on rear
- Four (4) 18' electric awnings
- Two (2) 42" heavy-duty Will-Burl masts
- Custom paint and graphics
- Warranty: 10 year Body, 5 year Fabricated Parts, 5 year Paint, 3 year Electrical



Interior Options

- Slide outs configured with flat (front) and raised (rear) floors
- AC & DC power panels located at entry door
- LED interior lighting in ceiling, under cabinets, and at workstations
- Galley: microwave, refrigerator, coffee maker with upper and lower storage cabinets
- C-Tech custom aluminum cabinets

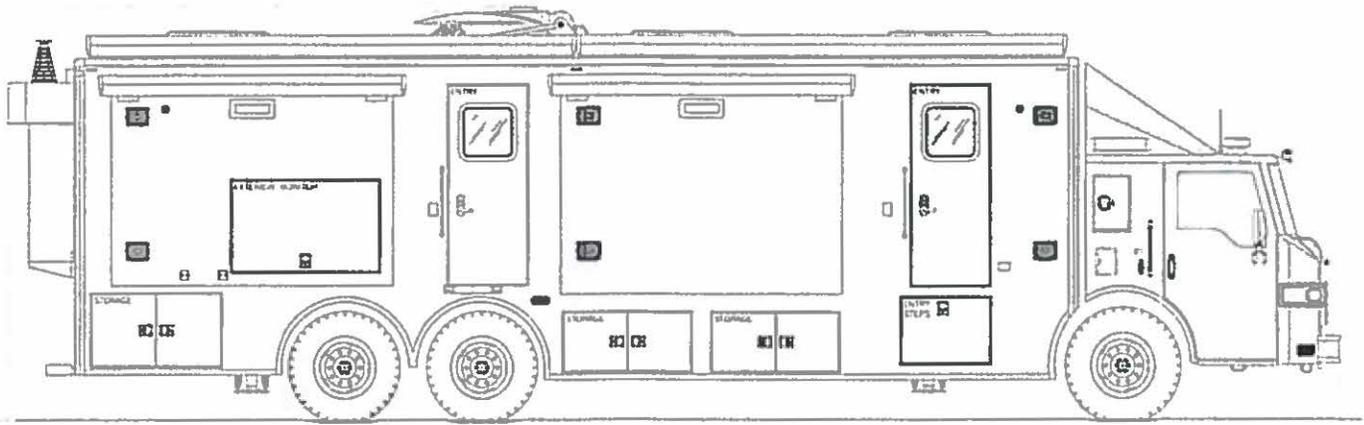


Systems Equipment

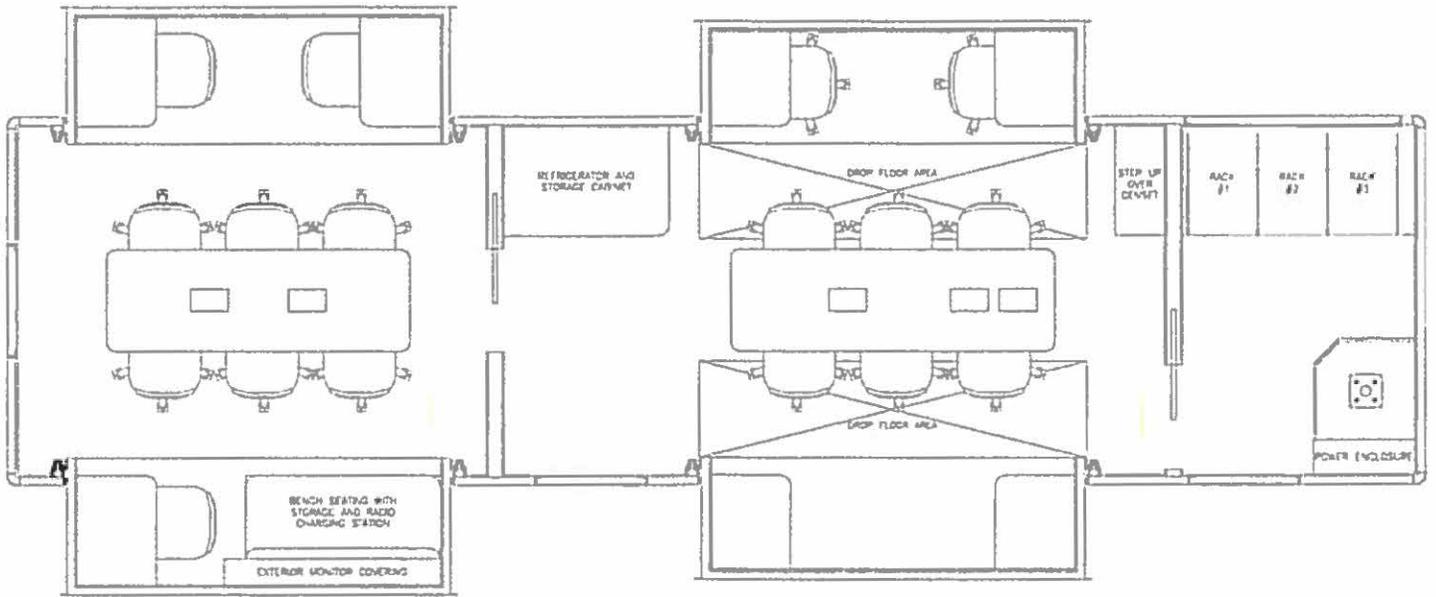
- Crestron AV routing system- route any audio or video to any or all areas of vehicle using intuitive touch panels
- Remote hookups at I/O panels to feed any signal into AV routing system
- Helicopter downlink- real time aerial view direct to the on-scene commander via Irf-band microwave receive system
- Wireless mesh network- enhances interoperability for incident command by connecting all command vehicles together wirelessly
- VPN into the county network through a Satellite Data Network- allows for thin clients to perform directly with county servers
- Rear section is dispatch, recorded interview room, and crisis negotiation platform when the kit is deployed
- Commander can conduct a briefing from the command room and it can be viewed on outside monitor and a two-way conversation can ensue
- Dual band radios throughout truck
- Radio and workstation connections at outside monitor allows scene control from outside the truck
- Lighting mast to enhance scene at night
- Day/night and thermal mast cameras combine with day/night perimeter cameras for full 360-degree area surveillance
- Camera NVR ties into larger system via mesh network allowing remote viewing of all camera assets at scene with multi image workstation to display key viewpoints for command review and monitoring
- Video presentation system with touch panels for remote collaboration and map annotation
- Full data and voice connectivity via hardline and multiple wireless channels (cell, satellite, wireless bridge)
- Dual networks for both secure and unsecure data connectivity
- Dual renderers for connectivity with tablets allowing future drone routability
- Local and satellite TV available throughout vehicle
- IP PBX with remote survivability and call manager combination with five-digit dialing out to county phone system is complimented by cellular, satellite, and landline phones
- Physical security with card readers at all points of egress



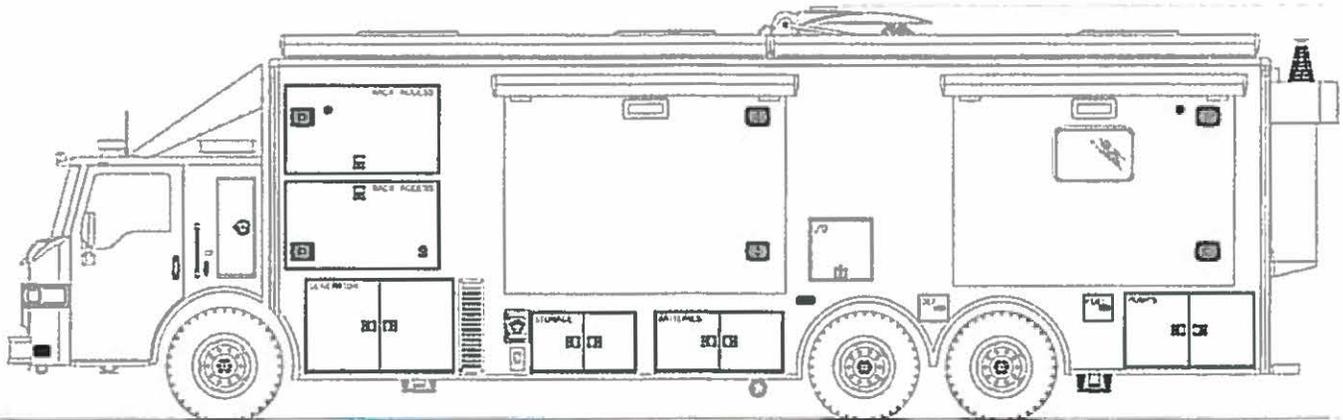
160 1/2
(17'-4 1/2")



512 (47'-4")



162 1/2
(17'-4 1/2")



522 (47'-4")

FRONTLINE
COMMUNICATIONS

Frontline Communications, a division of Pierce Manufacturing, Inc.
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Tel (727) 573-0400 Fax (727) 571-3295 Email sales@frontlinecomm.com

www.frontlinecomm.com

ISO 9001:2008

Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories and may not include all standard equipment. All measurements are nominal values.

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Registered trademarks and trademarks used herein are the properties of their respective owners.



**Fleet - HWY
Catch Basin Cleaner**



27 Washington Street
Westborough, MA 01581
phone: 800-338-7838
fax: 508-870-1731



7/1/2019

Fleet # 2

Attn : Mr.Doug Bogen
Town of Trumbull Hwy Dept
366 Church Hill Road
Trumbull, Ct. 06611

Stetco 950 " Hook " Catch Basin Cleaner Package:

13' Boom length --- two piece boom
Fail safe planetary winch line capacity -- mounted on heel of boom
2,000 lb Winch capacity
200 fpm Winch line speed
35' Reach below ground
2,860 lb Lift capacity @ 13'
4,130 lb Lift capacity @ 10'
8,260 lb Lift capacity @ 5'
Lift cylinder --- rod equipped w/ self aligning ball bushings
Rack and pinion rotation system -- 370 degree swing
Body dumping safety device
Boom up alarm in cab
Hook style short mast
Hook style single control panel
Stetco 15" Orange peel bucket
12' -- Skid and roller -- to match hook loader -- existing
Stetco 950 painted safety Orange -- # 0311

2--Frame locks -- installed
Hydraulic selector valve installed hydraulic system
Hydraulic manifold--pressure line.return line, elect
Hydraulic jumper hoses w/ quick disconnects
Rollers installed on body rear

Stetco 9' Debris body
All stainless steel body
5-- Yard capacity
24" High sides -- full perimeter
Splash shields -- full perimeter
Skids -- 7 Gauge stainless steel
Floor -- 3/16" Thick stainless steel floor --(one piece floor)
Tailgate -- stainless steel
Front panel -- stainless steel
Side braces -- heavy duty stainless steel

Stetco™

27 Washington Street
Westborough, MA 01581
phone: 800-338-7838
fax: 508-870-1731

L STREET
COLLABORATIVE
★ ★ ★ ★

Fleet # 2

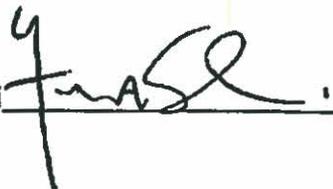
Tail-Gate – water tight
Tail-Gate lock—mechanical
Safety chains — 5/16"
Under body – 17 ton hoist –w/ double acting hoist cylinder
OSHA prop
2-----Oval flashers – LED amber color w/ switch in cab

Budget Price-----\$120,000.00

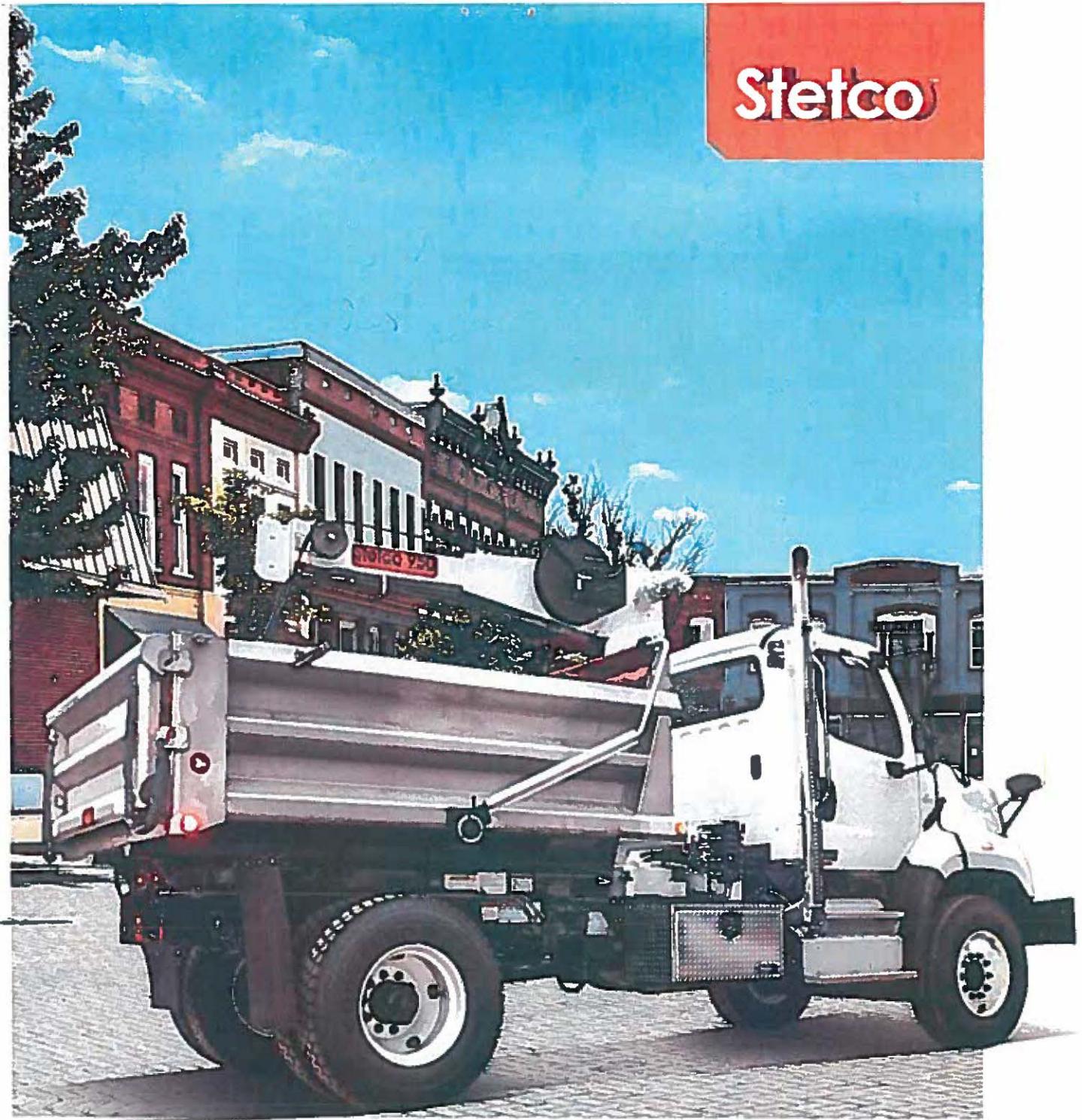
Terms : net 30 days
Shipping : FOB Wallingford, Ct.

PO # / Sign. _____

Date _____

Sincerely Yours, Frank Santucci  _____

Stetco



CATCH BASIN CLEANERS

920SP
950T SERIES
970T SERIES
BUCKETS
COMBINATION UNIT

\$110,000



When faced with cleaning challenging drainage infrastructure, today's municipalities have a powerful and cost-effective choice. Stetco™ catch basin cleaners (CBCs) are proven workhorses that easily handle large volumes of heavy, abrasive, and tough-to-handle debris — saving your expensive vacuum trucks and room in your budget.

Equipped with rugged hydraulic clamshell or orange peel buckets, Stetco CBCs provide a dependable stand-alone solution or make the perfect complement to your vacuum trucks. Stetco CBCs support your vac-trucks — and your bottom line — by handling the large, unwieldy debris that wears out, slows down, or breaks down vac-trucks. The durable performance of Stetco CBCs extends the life of your vac-trucks and reduces repair costs while allowing vac-trucks to do what they do best.

Versatile Stetco CBCs are ideal for all climates and can maintain a variety of drainage infrastructure, including catch basins, culverts, trash racks, weirs, lift stations, and other structures. Stetco CBCs can even serve as a dump truck and be outfitted for winter snow and ice control, making them a versatile choice for cost-conscious municipalities.

Municipalities operating Stetco CBCs cite specific benefits, including:

- Easy handling of heavy, awkward debris.
- Higher uptime through simple, dependable technology.
- Fewer dump runs due to Stetco buckets squeezing out water and loading solid debris.
- Significantly lower costs to purchase, operate, maintain and repair than alternatives.
- Fast, efficient removal of heavy volumes of debris.
- Cost-effective compliance with EPA stormwater mandates.
- The ability to lift and load solid debris without adding water.
- Quiet operation that will not bother residents and bystanders.

PROVEN POWER FOR YOUR BASIN CLEANING CHALLENGES





Stetco buckets allow high-volume debris removal in minimum time.

From orange peel buckets to rectangular or round clamshell buckets, there is a range of models and sizes to accommodate different catch basin dimensions. All Stetco buckets hydraulically squeeze debris to remove unwanted liquid — which means you haul only the debris, not the liquid.



The versatility of a Stetco unit is perfect for smaller municipalities on a tight budget.

In addition to cleaning catch basins, a Stetco unit can act as a dump truck and can be outfitted to double as a snowplow and road sander for work during the winter months. An optional hydraulic tool interface allows you to operate tools like sump pumps, paving breakers, and chainsaws at the job site.



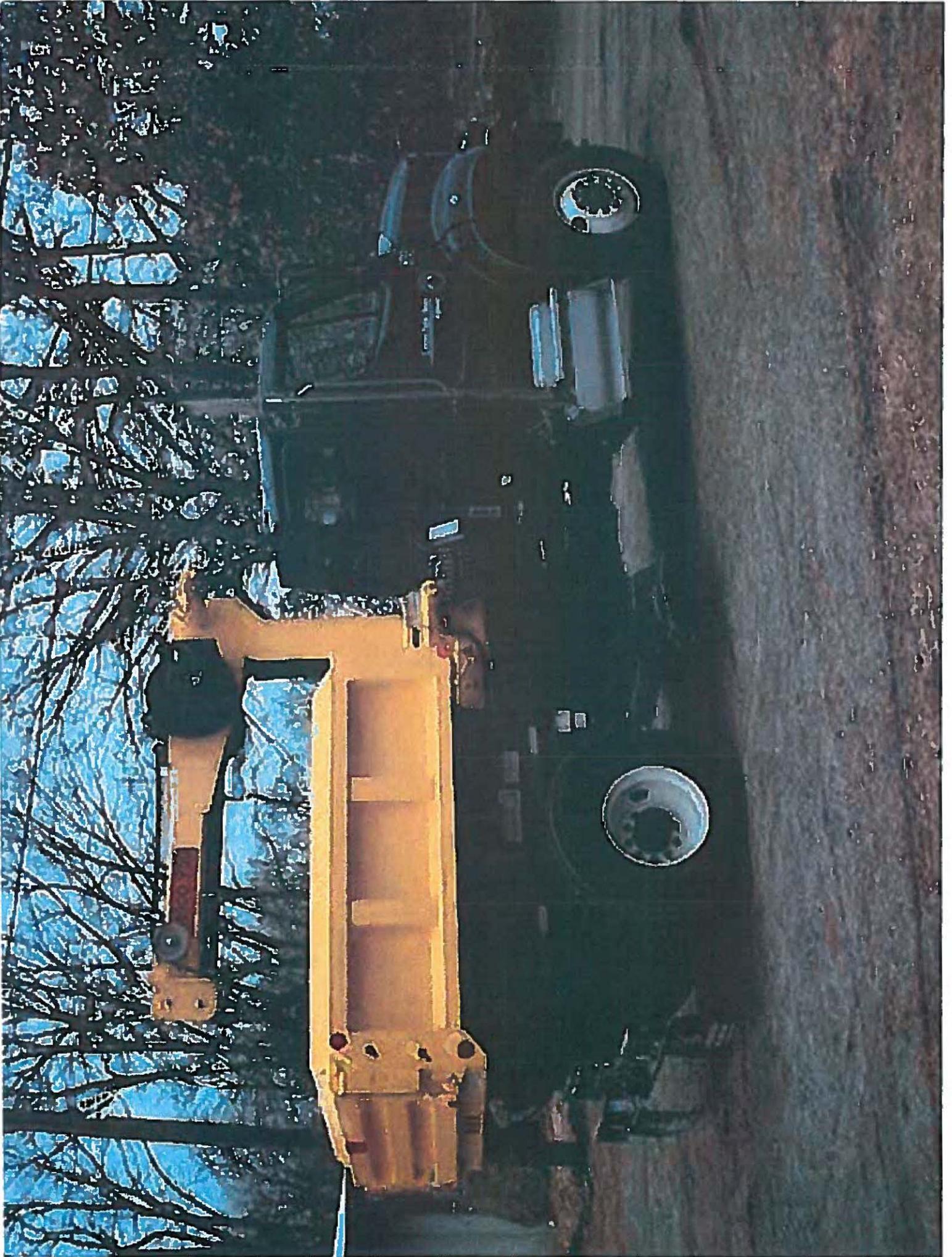
Quiet operation allows you to work in urban environments without bothering bystanders or residents.

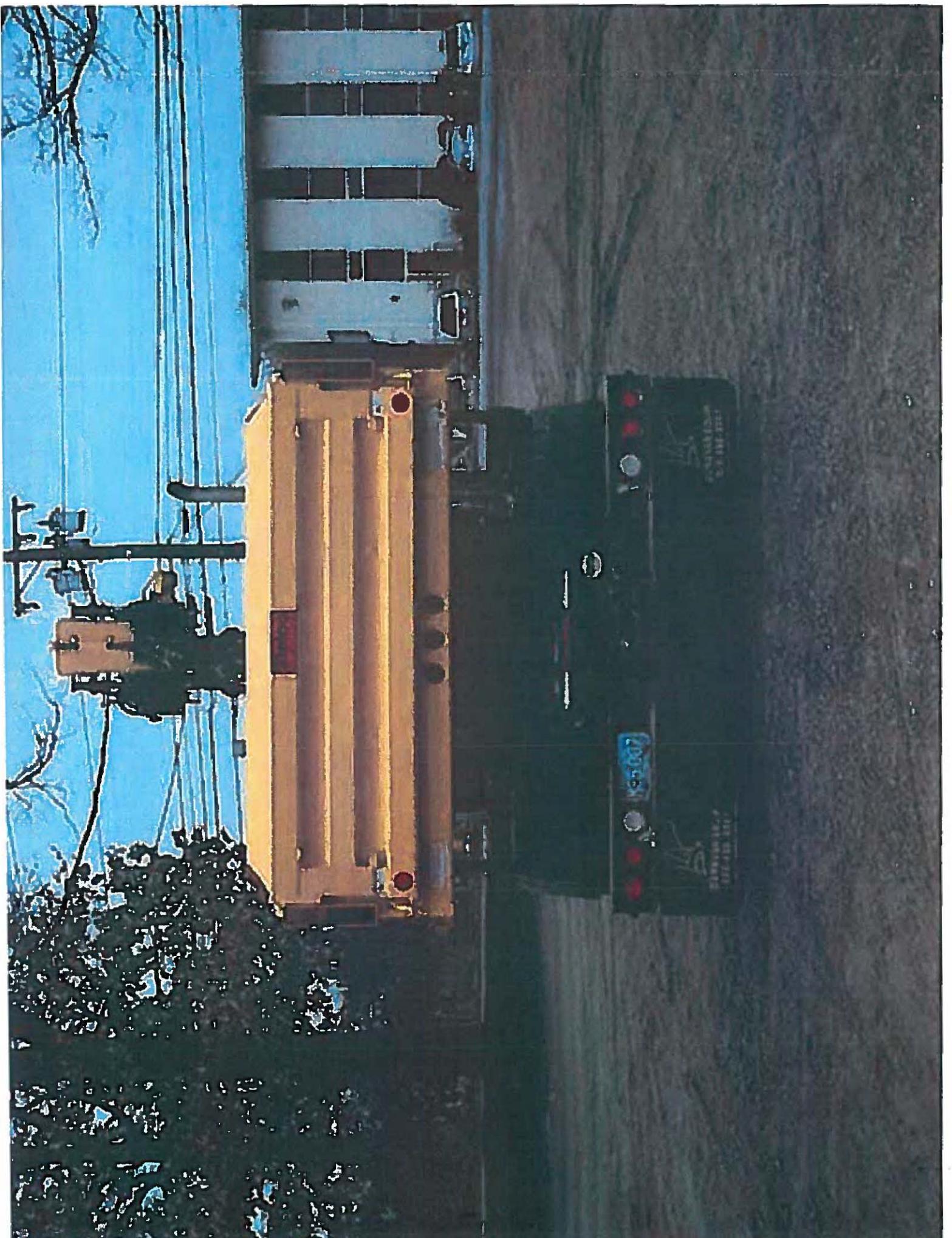
A watertight debris container with full-perimeter splash guard stores 7 cu yd (5.4 m³) of material on a single-axle chassis. Quick setup and a stowable boom allow you to move from job to job quickly and efficiently.

SPECIFICATIONS

| General | 920SP | 950T/13 | 970T2/15 |
|--|---|---|---|
| Clear mounting space behind cab | 36" (91 cm) | 36" (91 cm) | 36" (91 cm) |
| Std. travel height w/hose reel (approx.) | 9' (2.7 m) | 11' (3 m) | 11' (3.35 m) |
| Aboveground lift height (std.) | 21' (6.4 m) max. | 21' (6.4 m) max. | 21' (6.4 m) max. |
| Reach below ground (std.) | 35' (10.6 m) | 35' (10.6 m) | 35' (10.6 m) |
| Installed weight (approx.) | 3,000 lb (1,361 kg) | 3,700 lb (1,678 kg) | 3,900 lb (1,769 kg) |
| Rotation (std.) | 200° | 200° or 370° | 200° or 370° |
| Lifting capacities (w/ boom) | 2,000 lb (907 kg) @ 14' (4.3 m) 5,700 lb (2,586 kg) @ 5' (1.5 m) | 2,850 lb (1,293 kg) @ 13' (4.0 m) 8,260 lb (3,746 kg) @ 5' (1.5 m) | 2,250 lb (1,021 kg) @ 15' (4.6 m) 8,250 lb (3,742 kg) @ 5' (1.5 m) |
| Winch lifting capacity (full drum) | 2,000 lb (907 kg) | 2,000 lb (907 kg) | 2,000 lb (907 kg) |
| Winch line speed | 200 fpm (60.9 m/min.) | 250 fpm (76.2 m/min.) | 250 fpm (76.2 m/min.) |
| Working pressure | 2,050 psi (141 bar) | 2,050 psi (141 bar) | 2,050 psi (141 bar) |
| Typical pump capacity | 13 gpm (49 L/min) | 13 gpm (49 L/min) | 13 gpm (49 L/min) |
| Tank capacity | 25 gal (95 L) | 37 gal (140 L) | 37 gal (140 L) |
| Retracted boom length | 8' (2.44 m) | 8' (2.44 m) | 7' (2.13 m) |
| Extended hydraulic boom length | 14' (4.3 m) | 13.5' (4.1 m) | 15' (4.6 m) |

| Minimum Truck Specifications | | | |
|------------------------------|---|--|--|
| GVWR | 19,500 lb (8,845 kg) | 33,000 lb (14,969 kg) 35,000 lb (15,876 kg) w/ JetPac | 33,000 lb (14,969 kg) 35,000 lb (15,876 kg) w/ JetPac |
| Front axle | 7,000 lb (3,175 kg) | 12,000 lb (5,443 kg) | 12,000 lb (5,443 kg) |
| Rear axle | 14,700 lb (6,350 kg) | 21,000 lb (9,526 kg) 23,000 lb (10,433 kg) w/ JetPac | 21,000 lb (9,526 kg) 23,000 lb (10,433 kg) w/ JetPac |
| Cab to axle | 84" (213 cm) for CBC with 10' (3 m) body. | 108" (274 cm) for CBC with 10' (3 m) body. 120" (305 cm) for CBC with JetPac and 8' (2.44 m) body | 108" (274 cm) for CBC with 10' (3 m) body. 120" (305 cm) for CBC with JetPac and 8' (2.44 m) body |
| Min. RBM | | 1,650,000 | 1,650,000 |





Fleet - HWY Crane Truck

2017 Kenworth T270



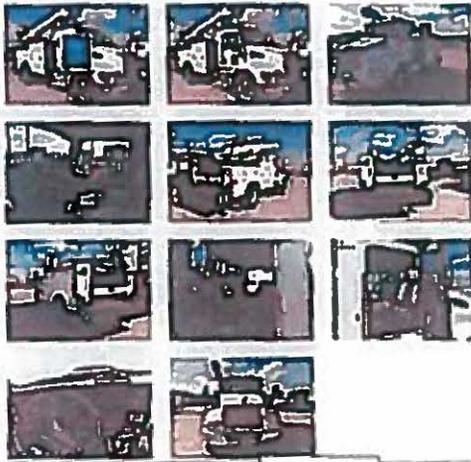
Price: \$143,932

Fleet# 3

Specification

Year: 2017
Make: **KENWORTH**
Model: **T270**
Class: **CLASS 7 (GVW 26001 - 33001)**
Category: **Crane Truck**
Cab Type: **STANDARD CAB**
Engine Make: **PACCAR**
Engine Size: **6.7L**

[▼ More](#)



Fleet HWY Rubber Tire Loader

Fleet # 4

CONTRACT SUPPLEMENT
RFP-37 Rev. 11/22/16
Prev. Rev. 4/28/14

Patrick DeConti
Contract Team Leader

860-713-5061
Telephone Number

STATE OF CONNECTICUT

DEPARTMENT OF ADMINISTRATIVE SERVICES
PROCUREMENT DIVISION
450 Columbus Boulevard, Hartford, CT 06103

| | |
|----------------------|------------------|
| CONTRACT AWARD NO.: | 16PSX0151 |
| Contract Award Date: | 25 November 2016 |
| SUPPLEMENT DATE: | 4 December 2018 |

Rubber tire loader

CONTRACT AWARD SUPPLEMENT #1
IMPORTANT: THIS IS NOT A PURCHASE ORDER. Do NOT PRODUCE OR SHIP WITHOUT AN AGENCY PURCHASE ORDER.

DESCRIPTION: 2.5 Cubic Yard Capacity, Diesel Powered, All Wheel Drive Loaders

| | | | |
|--|---|--|--------------------------------------|
| FOR: Department of Administrative Services and Department of Transportation | | TERM OF CONTRACT: 1 November 2016 through 31 May 2021 | |
| AGENCY REQUISITION NUMBER: | | | |
| CHANGE TO IN STATE (NON-SB) CONTRACT VALUE | CHANGE TO DAS-CERTIFIED SMALL BUSINESS CONTRACT VALUE | CHANGE TO OUT OF STATE CONTRACT VALUE | CHANGE TO TOTAL CONTRACT AWARD VALUE |
| n/a | | | n/a |

NOTICE TO CONTRACTORS: This notice is not an order to ship. Purchase Orders against contracts will be furnished by the using agency or agencies on whose behalf the contract is made. INVOICE SHALL BE RENDERED DIRECT TO THE ORDERING AGENCY.

NOTE: Dollar amounts listed next to each contractor are possible award amounts, however, they do not reflect any expected purchase amounts (actual or implied). They are for CHRO use only.

NOTICE TO AGENCIES: A complete explanatory report shall be furnished promptly to the Procurement Manager concerning items delivered and/or services rendered on orders placed against awards listed herein which are found not to comply with the specifications or which are otherwise unsatisfactory from the agency's viewpoint, as well as failure of the contractor to deliver within a reasonable period of time specified. Please issue orders and process invoices promptly.

CASH DISCOUNTS: Cash discounts, if any, shall be given SPECIAL ATTENTION, but such cash discount shall not be taken unless payment is made within the discount period.

PRICE BASIS: Unless otherwise noted, prices include delivery and transportation charges fully prepaid f.o.b. agency. No extra charge is to be made for packing or packages.

CONTRACTOR INFORMATION:

REFER TO THE CONTRACT ON THE DAS PROCUREMENT WEB PAGE FOR THE MOST CURRENT CONTRACTOR INFORMATION. (<http://das.ct.gov/mol.aspx?page=8>)

Company Name: **W.I. Clark Company**
Company Address: **30 Barnes Industrial Park Road, Wallingford, CT 06492**
Tel. No.: **203-265-6781** Fax No.: _____ Contract Value: **\$4,000,000.00**
Contact Person: **Jerry DeRubbo** Delivery: See Exhibit B
Company E-mail Address : jderubbo@wiclark.com
Certification Type : **None** Agrees to Supply Political SubDivisions: **Yes**
Prompt Payment Terms: **0% 00 Net 45**

PLEASE NOTE:

DAS has approved a model year price increase effective Tuesday December 4, 2018. Please see Exhibit B Supplement one for current pricing (overleaf).

All terms and conditions not otherwise affected by this supplement remain unchanged and in full force and effect.

APPROVED _____

PATRICK DECONTI
Contract Team Leader
(Original Signature on Document in Procurement Files)

| Contractors Name: W.I. Clark Company | | | | |
|--------------------------------------|--|-------------------------|--------------------|---|
| Page 1 OF 1 | | | | |
| ITEM # | DESCRIPTION OF COMMODITY AND/OR SERVICES | DELIVERY TIME A.R.O. | UNIT OF MEASURE | UNIT PRICE |
| 1. | 2.5 Cubic Yard All Wheel Drive Loader Manufacturer: <u>John Deere</u> Model: <u>524L</u> | 45 days | each | <u>\$162,152.000</u> |
| 2. | Percentage off MSRP of All Wheel Drive Loaders specifically listed. | | | 444L 32 % off 524L 36% off 544L 35% off 624L 36% off 644L 33% off |
| 3. | <u>Attachment:</u> Grapple Unit with Cab protection | 45 days | each | <u>\$13,815.00</u> |
| 4. | <u>Attachment:</u> Side tip bucket (Tip to Right Side) | 45 days | each | <u>\$11,094.00</u> |
| 5. | <u>Attachment:</u> Loadrite L2180 standalone scale installed | | | <u>\$9,610.00</u> |
| 6. | <u>Attachment:</u> Loadrite LP950 industrial printer | | | <u>\$1,302.33</u> |
| 7. | Percent Discount Off MSRP for Attachments and Accessories not specifically listed | | | <u>15 % off</u> |
| 8. | Percent Discount Off MSRP for OEM Repair Parts | | | <u>12 % off</u> |
| 9. | Hourly Shop Labor Rate | | | <u>128.00 HR.</u> |

\$163,000 base price 2019
\$171,150 (2.5% increase per year for two years until 2022 when equipment will be purchased once CIP 2021 is funded)
\$179,708 (2.5% increase per year for two years until 2023)

Fleet HWY Telehandler

Select Language Powered by  Translate

Fleet# 5



CONTACT US

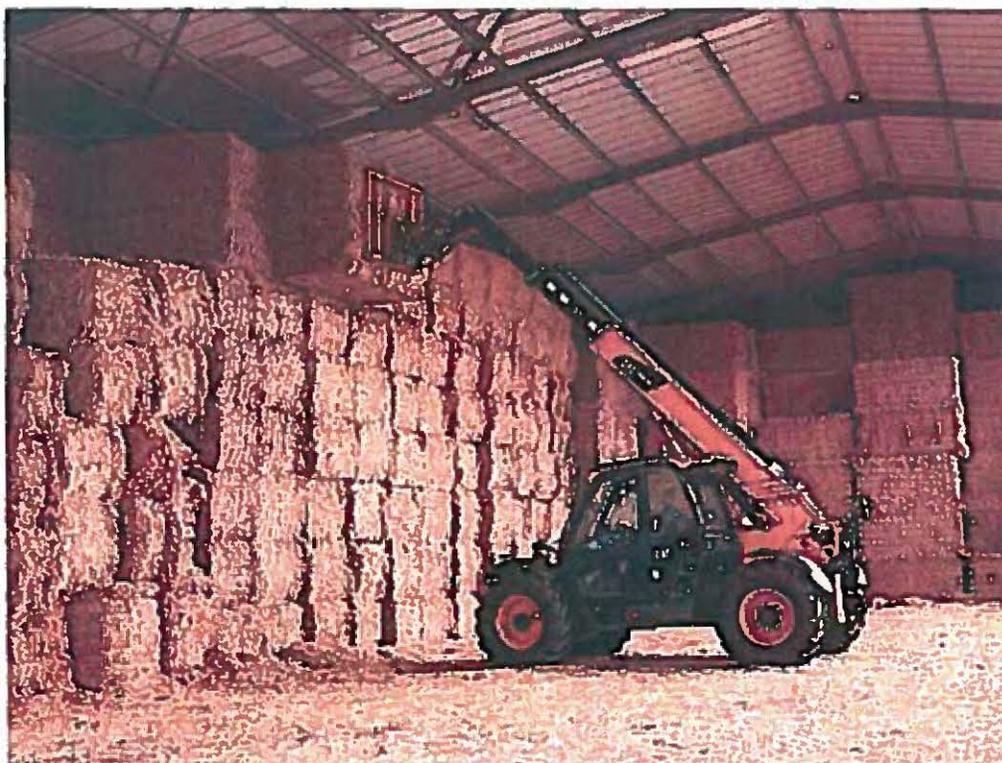
LOCATIONS

HOME / NEW / TELEHANDLERS / TH3510D AG HANDLER

\$80,000

TH3510D AG HANDLER

| | |
|---|-----------|
| ENGINE MODEL | Cat C3.4B |
| OPERATING WEIGHT - WITH CARRIAGE AND FORKS* | 20170 lb |
| RATED LOAD CAPACITY | 7700 lb |
| MAXIMUM LIFT HEIGHT | 32.1 ft |



| | | |
|------------|-----------------------------|----------|
| Option (4) | Michelin 440/80 24 Power CL | |
| Option (5) | Michelin 400/80 24 Power CL | |
| Option (6) | Michelin 460/70 R24 Bibload | Fleet# 5 |
| Option (7) | Firestone Duraforce | |
| Option (8) | 13 x 24 Solid Tires | |

HYDRAULIC SYSTEM

| | |
|---|-----------------------------|
| System Type | Load Sensing, Closed Center |
| Pump Type | Variable Flow, Axial Piston |
| Auxiliary Hydraulic Flow - Boom Head - Continuous | 25gal/min |
| Auxiliary Hydraulic Flow - Boom Head - Intermittent | 25gal/min |
| Auxiliary Hydraulic Flow - Machine Rear | 21gal/min |
| Auxiliary Hydraulic Pressure | 3553psi |
| Maximum Pump Capacity | 36.9gal/min |
| System Pressure | 3770psi |

SERVICE REFILL CAPACITIES

| | |
|----------------------|--------------|
| Fuel Tank | 40gal (US) |
| Diesel Exhaust Fluid | 5gal (US) |
| Hydraulic Tank | 31.7gal (US) |

BOOM PERFORMANCE

| | | |
|--|--|----------|
| Maximum Fork Crowd Angle | 24° | Fleet# 5 |
| Maximum Fork Dump Angle | 128° | |
| Note | *Add 200 mm (7.9 in) for beacon. Add 40 mm (1.6 in) for top guard. | |
| Overall Height - Standard Tires* | 8.1ft | |
| Overall Length to Front of Carriage | 17.4ft | |
| Overall Width - Standard Tires | 7.8ft | |
| Overhang | 3.3ft | |
| Track | 6.5ft | |
| Wheel Base | 10.3ft | |

ELECTRICAL

| | |
|--------------------------|---------------------------|
| Alternator Output | 12V/150A |
| Battery | 1 × 12V 1,000 CCA Battery |

ENGINE - OPTION 1

| | |
|-----------------------|--|
| Bore | 4.1in |
| Displacement | 269in ³ |
| Emissions | *Meets U.S. EPA Tier 4 Final emission standards. |
| Gross Power | 93 kW (124 hp/bhp) |
| Maximum Torque | 391 ft·lbf |
| Model* | Cat C4.4 ACERT™ |
| Stroke | 5in |

| | |
|---|----------|
| Drawbar Pull - 83 kW/111.3 hp Engine | 20682lbf |
| Drawbar Pull - 92.6 kW/124.1 hp Engine | 19783lbf |
| Noise Levels - External | 106dB(A) |
| Noise Levels - In Cab | 74dB(A) |
| Quick Coupler Rotation | 152° |
| Towable Mass - Hydraulically Braked | 26455lb |

Fleet#5

TRANSMISSION*

| | |
|--------------------|--|
| Forward - 1 | 3.4mile/h |
| Forward - 2 | 5.3mile/h |
| Forward - 3 | 6.9mile/h |
| Forward - 4 | 10.3mile/h |
| Forward - 5 | 15.7mile/h |
| Forward - 6 | 24.9mile/h |
| Note | *Travel speed is subject to machine configuration. |
| Reverse - 1 | 3.4mile/h |
| Reverse - 2 | 6.9mile/h |
| Reverse - 3 | 15.7mile/h |
| Type | Cat PG124 six speed power shift |

Highway Rolloff Truck

Douglas Bogen

Fleet #8

From: Greg Martinotti <greg@freightlinerofhartford.com>
Sent: Monday, November 4, 2019 3:29 PM
To: Douglas Bogen
Cc: Greg Martinotti
Subject: Roll-Off Proposal
Attachments: Stock tri axle roll off Proposal.docx

\$200,000

Importance: High

Doug,

Attached is pricing on a stock roll-off unit that we have here based on state contract.

I would factor extra money for model year increases in case this particular truck is no longer available by the time The Town is ready to pull the trigger.

Thanks,

Greg Martinotti



222 Roberts Street
East Hartford, CT 06108
Phone: 860-559-9547
Fax: 860-610-6242
www.freightlinerofhartford.com



Prepared for:
Doug Bogen
Town of Trumbull
366 Church Hill Rd
Trumbull, CT 06611
Phone: 203-452-5143
Mobile: 203-650-8053
E-Mail: dbogen@trumbull-ct.gov



Prepared by:
Greg Martinotti
FREIGHTLINER OF HARTFORD
222 ROBERTS STREET
EAST HARTFORD, CT 06108
Phone: 860-559-9547
E-Mail: greg@fohct.com.com

Fleet #8

*A proposal for:
Town of Trumbull*

*Prepared by:
Freightliner of Hartford, Inc.*

November 4, 2019

**Freightliner 114SD
Per State Contract # 14PSX0239**



Components shown may not reflect all spec'd options and are not to scale

KK3030 tri axle roll off



11/4/2019 2:07 PM

Page 1 of 17

Prepared for:
 Doug Bogen
 Town of Trumbull
 366 Church Hill Rd
 Trumbull, CT 06611
 Phone: 203-452-5143
 Mobile: 203-650-8053
 E-Mail: dbogen@trumbull-ct.gov



Prepared by:
 Greg Martinotti
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Fleet #8

QUOTATION
Per State Contract # 14PSX0239

114SD CONVENTIONAL CHASSIS

SET FORWARD AXLE - TRUCK
 DETROIT DD13 12.8L 450 HP @ 1625 RPM, 1900 GOV
 RPM, 1650 LB/FT @ 975 RPM
 EATON FULLER FO-16E308LL-VCS ULTRASHIFT PLUS
 TRANSMISSION
 RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
 AIRLINER 46,000# REAR SUSPENSION
 DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP
 SINGLE FRONT AXLE
 20,000# FLAT LEAF FRONT SUSPENSION

114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL
 CAB
 6850MM (270 INCH) WHEELBASE
 7/16X3-9/16X11-1/8 INCH STEEL FRAME
 (11.11MMX282.6MM/0.437X11.13 (INCH) 120KSI
 1825MM (72 INCH) REAR FRAME OVERHANG
 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME
 REINFORCEMENT
 HENDRICKSON SC20/SCO20 20,000# FL1 STEERABLE
 16.5X6 BRAKE INTEGRAL PUSHER AXLE

| | PER UNIT | TOTAL |
|----------------------------------|----------------------|----------------------|
| Item # 3A | \$ 119,650.00 | \$ 119,650.00 |
| Item # 3O | \$ 9,737.25 | \$ 9,737.25 |
| Item # 3Q | \$ 48,325.00 | \$ 48,325.00 |
| CUSTOMER PRICE BEFORE TAX | \$ 177,712.25 | \$ 177,712.25 |

TAXES AND FEES

| | | |
|----------------|------|------|
| TAXES AND FEES | \$ 0 | \$ 0 |
| OTHER CHARGES | \$ 0 | \$ 0 |

TRADE-IN

| | | |
|----------|--------|--------|
| TRADE-IN | \$ (0) | \$ (0) |
|----------|--------|--------|

| | | |
|--------------------|---------------------------------------|----------------------|
| BALANCE DUE | (LOCAL CURRENCY) \$ 177,712.25 | \$ 177,712.25 |
|--------------------|---------------------------------------|----------------------|

COMMENTS:

- UNIT BEING PROPOSED ON A WHILE SUPPLY LASTS BASIS

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.

KK3030 tri axle roll off



11/4/2019 2:07 PM

Prepared for:
Doug Bogen
Town of Trumbull
366 Church Hill Rd
Trumbull, CT 06811
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Prepared by:
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Fleet #8

SPECIFICATION PROPOSAL

Description

Vehicle Configuration

114SD CONVENTIONAL CHASSIS
2019 MODEL YEAR SPECIFIED
SET FORWARD AXLE - TRUCK
STRAIGHT TRUCK PROVISION
LH PRIMARY STEERING LOCATION

General Service

TRUCK CONFIGURATION
DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)
REFUSE SERVICE
SANITATION BUSINESS SEGMENT
DRY BULK COMMODITY
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
MAXIMUM 8% EXPECTED GRADE
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
FREIGHTLINER LEVEL II WARRANTY
EXPECTED FRONT AXLE(S) LOAD: 20000.0 lbs.
EXPECTED REAR DRIVE AXLE(S) LOAD: 46000.0 lbs.
EXPECTED PUSHER AXLE(S) LOAD: 20000.0 lbs.
EXPECTED GROSS VEHICLE WEIGHT CAPACITY: 86000.0 lbs.

Truck Service

ROLL OFF
EXPECTED TRUCK BODY LENGTH: 22.0 ft
GALFAB

Engine

DETROIT DD13 12.8L 450 HP @ 1625 RPM, 1900 GOV RPM, 1650 LB/FT @ 975 RPM

Electronic Parameters

70 MPH ROAD SPEED LIMIT



Prepared for:
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Prepared by:
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Fleet #8

Description

CRUISE CONTROL SPEED LIMIT SAME AS ROAD
SPEED LIMIT, WITH AUTO RESUME AFTER
SHIFT
15 MINUTES IDLE SHUTDOWN WITH CLUTCH
AND SERVICE BRAKE OVERRIDE
PTO MODE ENGINE RPM LIMIT - 1300 RPM
PTO RPM WITH CRUISE SET SWITCH - 900 RPM
PTO RPM WITH CRUISE RESUME SWITCH - 900
RPM
PTO MODE RPM INCREMENT - 100 RPM
ONE REMOTE PTO SPEED
PTO SPEED 1 SETTING - 1300 RPM
PTO MINIMUM RPM - 900
ENABLE AUTO ENGINE RPM ELEVATE FOR
EXTENDED IDLE

Engine Equipment

2016 ONBOARD DIAGNOSTICS/2010
EPA/CARB/FINAL GHG17 CONFIGURATION
2008 CARB EMISSION CERTIFICATION - CLEAN
IDLE (INCLUDES 6X4 INCH LABEL ON LOWER
FORWARD CORNER OF DRIVER DOOR)
STANDARD OIL PAN
ENGINE MOUNTED OIL CHECK AND FILL
ONE PIECE VALVE COVER
SIDE OF HOOD AIR INTAKE WITH DONALDSON
HIGH CAPACITY AIR CLEANER WITH SAFETY
ELEMENT, FIREWALL MOUNTED
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD
ALTERNATOR WITH REMOTE BATTERY VOLT
SENSE
(3) ALLIANCE MODEL 1231XOE, GROUP 31, 12
VOLT MAINTENANCE FREE 3375 CCA
THREADED STUD BATTERIES
BATTERY BOX FRAME MOUNTED
STANDARD BATTERY JUMPERS
SINGLE BATTERY BOX FRAME MOUNTED LH
SIDE UNDER CAB
WIRE GROUND RETURN FOR BATTERY CABLES
WITH ADDITIONAL FRAME GROUND RETURN
NON-POLISHED BATTERY BOX COVER



Prepared for:
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Fleet #8

Description

POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT
EATON FULLER ECA CLUTCH
ZERK FITTING WITH EXTENSION HOSE AT CLUTCH RELEASE BEARING
ELECTRONIC CLUTCH CONTROL
BW MODEL BA-921 19.0 CFM SINGLE CYLINDER AIR COMPRESSOR WITH SAFETY VALVE
ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM
JACOBS COMPRESSION BRAKE
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH
11 FOOT 00 INCH (132 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT
STANDARD CURVE BRIGHT UPPER STACK(S)
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP
13 GALLON DIESEL EXHAUST FLUID TANK
100 PERCENT DIESEL EXHAUST FLUID FILL
STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING
NON-POLISHED ALUMINUM DIESEL EXHAUST FLUID TANK COVER
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION
STANDARD DIESEL EXHAUST FLUID TANK CAP
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD
BORG WARNER (KYSOR) REAR AIR ON/OFF ENGINE FAN CLUTCH
AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON-ENGINE MOUNTED
DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR



Prepared for:
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Fleet #8

Description

FULL FLOW OIL FILTER
1500 SQUARE INCH ALUMINUM RADIATOR
MOUNTING FOR FIREWALL MOUNTED SURGE
TANK
ANTIFREEZE TO -34F, OAT (NITRITE AND
SILICATE FREE) EXTENDED LIFE COOLANT
GATES BLUE STRIPE COOLANT HOSES OR
EQUIVALENT
CONSTANT TENSION HOSE CLAMPS FOR
COOLANT HOSES
HDEP FIXED RATIO COOLANT PUMP AND
RADIATOR DRAIN VALVE
PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK
HEATER
BLACK PLASTIC ENGINE HEATER RECEPTACLE
MOUNTED UNDER LH DOOR
MITSUBISHI 12V MOD 3.175-DP60 STARTER
WITH INTEGRATED MAGNETIC SWITCH

Transmission

EATON FULLER FO-16E308LL-VCS ULTRASHIFT
PLUS TRANSMISSION

Transmission Equipment

DIRECTION CHANGE ENABLED WITH
MULTIPLXED SERVICE BRAKES - ALLISON 5TH
GEN TRANSMISSIONS
VEHICLE INTERFACE WIRING CONNECTOR
WITHOUT BLUNT CUTS, AT BACK OF CAB
ELECTRONIC TRANSMISSION CUSTOMER
ACCESS CONNECTOR FIREWALL MOUNTED
ALUMINUM CLUTCH HOUSING
CHELSEA PTO - CHL489XLAHX V3AF
PTO MOUNTING, BOTTOM OF MAIN
TRANSMISSION
MAGNETIC PLUGS, ENGINE DRAIN,
TRANSMISSION FILL AND DRAIN, AXLE(S) FILL
AND DRAIN
SMARTSHIFT, ELECTRONIC SHIFT CONTROL,
STEERING COLUMN MOUNTED
WATER TO OIL TRANSMISSION COOLER, IN
RADIATOR END TANK
SYNTHETIC TRANSMISSION LUBE

Front Axle and Equipment

KK3030 tri axle roll off



11/4/2019 2:07 PM

Page 6 of 17

Prepared for:
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Fleet #8

Description

DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74
DROP SINGLE FRONT AXLE
MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT
BRAKES, DOUBLE ANCHOR, FABRICATED
SHOES
NON-ASBESTOS FRONT BRAKE LINING
CONMET CAST IRON FRONT BRAKE DRUMS
FRONT BRAKE DUST SHIELDS
FRONT OIL SEALS
VENTED FRONT HUB CAPS WITH WINDOW,
CENTER AND SIDE PLUGS - OIL
STANDARD SPINDLE NUTS FOR ALL AXLES
MERITOR AUTOMATIC FRONT SLACK
ADJUSTERS
STANDARD KING PIN BUSHINGS
TRW THP-60 POWER STEERING WITH RCH45
AUXILIARY GEAR
POWER STEERING PUMP
4 QUART POWER STEERING RESERVOIR
OIL/AIR POWER STEERING COOLER
SYNTHETIC 75W-90 FRONT AXLE LUBE

Front Suspension

20,000# FLAT LEAF FRONT SUSPENSION
GRAPHITE BRONZE BUSHINGS WITH SEALS -
FRONT SUSPENSION
FRONT SHOCK ABSORBERS

Rear Axle and Equipment

RT-46-160 46,000# R-SERIES TANDEM REAR
AXLE
4.10 REAR AXLE RATIO
IRON REAR AXLE CARRIER WITH STANDARD
AXLE HOUSING
MXL 18T MERITOR EXTENDED LUBE MAIN
DRIVELINE WITH HALF ROUND YOKES
MXL 17T MERITOR EXTENDED LUBE
INTERAXLE DRIVELINE WITH HALF ROUND
YOKES
(1) INTERAXLE LOCK VALVE FOR TANDEM OR
TRIDEM DRIVE AXLES



Prepared for:
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Fleet #8

Description

BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF
MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
NON-ASBESTOS REAR BRAKE LINING
BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S) WITH AUXILIARY SUPPORT BRACKETS
CONMET CAST IRON REAR BRAKE DRUMS
REAR BRAKE DUST SHIELDS
REAR OIL SEALS
WABCO TRISTOP D LONGSTROKE 2-DRIVE AXLE SPRING PARKING CHAMBERS
MERITOR AUTOMATIC REAR SLACK ADJUSTERS
SYNTHETIC 75W-90 REAR AXLE LUBE
STANDARD REAR AXLE BREATHER(S)

Rear Suspension

AIRLINER 46,000# REAR SUSPENSION
AIRLINER HIGH POSITION RIDE HEIGHT
WELDED AXLE SEATS SUPPLIED ON REAR AXLE
51 INCH AXLE SPACING
MANUAL DUMP VALVE FOR AIR SUSPENSION WITH GAUGE
INDICATOR LIGHT FOR EACH REAR SUSPENSION CONTROL SWITCH
SINGLE AIR REAR SUSPENSION LEVELING VALVE
TRANSVERSE CONTROL RODS
REAR SHOCK ABSORBERS - TWO AXLES (TANDEM) (AIR RIDE SUSPENSION)

Pusher / Tag Equipment

HENDRICKSON SC20 COMPOSILITE 20,000# AIR LIFT STEERABLE PUSHER SUSPENSION, 16.5X6 BRAKES AND FL1 AXLE
HENDRICKSON SC20/SCO20 20,000# FL1 STEERABLE 16.5X6 BRAKE INTEGRAL PUSHER AXLE



Prepared for:
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Fleet #8

Description

(1) DASH VALVE AND (1) GAUGE FOR SINGLE LIFT AXLE
REVERSE LIFT AXLE WIRING WITH LAST STATE RETENTION WITH IGNITION OFF
(1) REGULATOR AND (1) GAUGE MOUNTED ON CHASSIS FOR SINGLE LIFT AXLE
HENDRICKSON 16.5X6 CAST SPIDER CAM PUSHER/TAG BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
NON-ASBESTOS PUSHER/TAG BRAKE LINING
CONMET CAST IRON PUSHER/TAG BRAKE DRUMS
PUSHER/TAG BRAKE DUST SHIELDS
PUSHER/TAG OIL SEALS
VENTED PUSHER/TAG HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL
HALDEX LONGSTROKE PUSHER/TAG AXLE SERVICE CHAMBERS
HALDEX AUTOMATIC PUSHER/TAG SLACK ADJUSTERS
HENDRICKSON SC20 COMPOSILITE 20,000# STEERABLE AIR LIFT PUSHER SUSPENSION
52 INCH AXLE SPACING PUSHER/TAG

Brake System

WABCO 4S/4M ABS WITH HILL START AID AND AUTOMATIC TRACTION CONTROL
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
FIBER BRAID PARKING BRAKE HOSE
STANDARD BRAKE SYSTEM VALVES
STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM
STD U.S. FRONT BRAKE VALVE
(2) 3-4.5 PSI RELAY VALVES, ONE FOR TANDEM AXLE AND ONE FOR PUSHER/TAG
WABCO SS-1200 PLUS AIR DRYER WITH INTEGRAL AIR GOVERNOR AND HEATER
AIR DRYER FRAME MOUNTED
STEEL AIR BRAKE RESERVOIRS
CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD

KK3030 tri axle roll off



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Fleet #8

Description

PULL CABLES ON ALL AIR RESERVOIR(S)

Trailer Connections

UPGRADED CHASSIS MULTIPLEXING UNIT

Wheelbase & Frame

6850MM (270 INCH) WHEELBASE
7/16X3-9/16X11-1/8 INCH STEEL FRAME
(11.11MMX282.6MM/0 437X11.13 INCH) 120KSI
1/4 INCH (6.35MM) C-CHANNEL INNER FRAME
REINFORCEMENT
1825MM (72 INCH) REAR FRAME OVERHANG
FRAME OVERHANG RANGE: 71 INCH TO 80
INCH
CALC'D BACK OF CAB TO REAR SUSP C/L (CA):
186.54 in
CALCULATED EFFECTIVE BACK OF CAB TO
REAR SUSPENSION C/L (CA): 183.54 in
CALC'D FRAME LENGTH - OVERALL: 358.87
CALC'D SPACE AVAILABLE FOR DECKPLATE:
186.54 in
CALCULATED FRAME SPACE LH SIDE: 71.14 in
CALCULATED FRAME SPACE RH SIDE: 126.82 in
SQUARE END OF FRAME
FRONT CLOSING CROSSMEMBER
STANDARD WEIGHT ENGINE CROSSMEMBER
STANDARD MIDSHIP #1 CROSSMEMBER(S)
STANDARD REARMOST CROSSMEMBER
HEAVY DUTY SUSPENSION CROSSMEMBER

Chassis Equipment

16.5 INCH CHROME STEEL STRAIGHT BUMPER
REMOVABLE FRONT TOW HOOKS STORED ON
THE CHASSIS FRAME
BUMPER MOUNTING FOR SINGLE LICENSE
PLATE
FENDER AND FRONT OF HOOD MOUNTED
FRONT M UDFLAPS
HUCK-SPIN ROUND COLLAR CHASSIS
FASTENERS SUSPENSIONS ONLY

Fuel Tanks



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Fleet #8

Description

100 GALLON/378 LITER ALUMINUM FUEL TANK - LH
25 INCH DIAMETER FUEL TANK(S)
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH POLISHED STAINLESS-STEEL BANDS
FUEL TANK(S) FORWARD
PLAIN STEP FINISH
FUEL TANK FILLER NECK ANTI-SIPHON INSERT
FUEL TANK CAP(S)
EQUIFLO INBOARD FUEL SYSTEM
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE
FUEL COOLER MOUNTED LEFT HAND IN RAIL

Tires

MICHELIN XZU-S2 315/80R22.5 20 PLY RADIAL FRONT TIRES
MICHELIN XZU-S2 315/80R22.5 20 PLY RADIAL REAR TIRES
MICHELIN XZU-S2 315/80R22.5 20 PLY RADIAL PUSHER/TAG TIRES

Hubs

CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
CONMET PRESET PLUS PREMIUM IRON REAR HUBS
CONMET PRESET PLUS PREMIUM ALUMINUM PUSHER/TAG HUBS

Wheels

ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM FRONT WHEELS
ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM REAR WHEELS
ACCURIDE 41012 22.5X9.00 10-HUB PILOT 3.12 INSET 10-HAND ALUMINUM DISC PUSHER/TAG WHEELS
POLISHED FRONT WHEELS; OUTSIDE ONLY
POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY
POLISHED PUSHER/TAG WHEELS; BOTH SIDES OF OUTER WHEELS ONLY



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Fleet #8

Description

Cab Exterior

114 INCH BBC FLAT ROOF ALUMINUM
CONVENTIONAL CAB
AIR CAB MOUNTING
NONREMOVABLE BUGSCREEN MOUNTED
BEHIND GRILLE
FRONT FENDERS
3-1/2 INCH FENDER EXTENSIONS
LH AND RH GRAB HANDLES
BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL
STATIONARY BLACK GRILLE WITH BRIGHT
ACCENTS
CHROME HOOD MOUNTED AIR INTAKE GRILLE
FIBERGLASS HOOD
DUAL 26 INCH RECTANGULAR POLISHED
ALUMINUM AIR HORNS ROOF MOUNTED
DUAL ELECTRIC HORNS
DUAL HORN SHIELDS
ALL UNIT(S) KEYED ALIKE WITH CUSTOMER
SPECIFIED KEY NUMBER FT1040
REAR LICENSE PLATE MOUNT END OF FRAME
HALOGEN COMPOSITE HEADLAMPS WITH
BRIGHT BEZELS
LED AERODYNAMIC MARKER LIGHTS
HEADLIGHTS ON WITH WIPERS, WITH LOW
BEAM DAYTIME RUNNING LIGHTS
FREIGHTLINER LED FLANGE MOUNTED
STOP/TAIL/TURN LIGHTS WITH SEPARATE
BACKUP LIGHTS AND ADDITIONAL 7 FEET
WIRING END OF FRAME
STANDARD FRONT TURN SIGNAL LAMPS
(2) FLUSH UTILITY LIGHTS MOUNTED BACK OF
CAB/SLEEPER
DUAL WEST COAST BRIGHT FINISH HEATED
MIRRORS WITH LH AND RH REMOTE
DOOR MOUNTED MIRRORS
102 INCH EQUIPMENT WIDTH
LH AND RH 8 INCH BRIGHT FINISH CONVEX
MIRRORS MOUNTED UNDER PRIMARY
MIRRORS
STANDARD SIDE/REAR REFLECTORS



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Fleet #8

Description

RH AFTERTREATMENT SYSTEM CAB ACCESS
WITH PLAIN DIAMOND PLATE COVER
COMPOSITE EXTERIOR SUN VISOR
63X14 INCH TINTED REAR WINDOW
TINTED DOOR GLASS LH AND RH WITH TINTED
NON-OPERATING WING WINDOWS
RH AND LH ELECTRIC POWERED WINDOWS,
PASSENGER SWITCHES ON DOOR(S)
LOWER RH DOOR WINDOW WITH FRESNEL
LENS
TINTED WINDSHIELD
8 LITER WINDSHIELD WASHER RESERVOIR,
CAB MOUNTED, WITHOUT FLUID LEVEL
INDICATOR

Cab Interior

OPAL GRAY VINYL INTERIOR
MOLDED PLASTIC DOOR PANEL WITHOUT
VINYL INSERT WITH ALUMINUM KICKPLATE
LOWER DOOR
MOLDED PLASTIC DOOR PANEL WITHOUT
VINYL INSERT WITH ALUMINUM KICKPLATE
LOWER DOOR
BLACK MATS WITH SINGLE INSULATION
FORWARD ROOF MOUNTED CONSOLE WITH
UPPER STORAGE COMPARTMENTS WITHOUT
NETTING
IN DASH STORAGE BIN
CENTER STORAGE CONSOLE MOUNTED ON
BACKWALL
(2) CUP HOLDERS LH AND RH DASH
GRAY/CHARCOAL FLAT DASH
SMART SWITCH EXPANSION MODULE
5 LB. FIRE EXTINGUISHER
FIRST AID KIT
HEATER, DEFROSTER AND AIR CONDITIONER
STANDARD HVAC DUCTING
MAIN HVAC CONTROLS WITH RECIRCULATION
SWITCH
STANDARD HEATER PLUMBING WITH BALL
SHUTOFF VALVES AT SUPPLY LINES ONLY
DENSO HEAVY DUTY AIR CONDITIONER
COMPRESSOR



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Fleet #8

Description

BINARY CONTROL, R-134A
PREMIUM INSULATION
SOLID-STATE CIRCUIT PROTECTION AND FUSES
12V NEGATIVE GROUND ELECTRICAL SYSTEM
DOME DOOR ACTIVATED LH AND RH. DUAL READING LIGHTS, FORWARD CAB ROOF
LH AND RH ELECTRIC DOOR LOCKS
(1) 12V POWER SUPPLY (1) DUAL 2.1 AMP USB CHARGER IN DASH
TRIANGULAR REFLECTORS WITHOUT FLARES
PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER
BASIC HIGH BACK NON-SUSPENSION TOOL BOX PASSENGER SEAT
DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS
LH AND RH INTEGRAL DOOR PANEL ARMRESTS
BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER
BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER
HIGH VISIBILITY ORANGE SEAT BELTS
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN
4-SPOKE 18 INCH (450MM) STEERING WHEEL
DRIVER AND PASSENGER INTERIOR SUN VISORS

Instruments & Controls

GRAY DRIVER INSTRUMENT PANEL
GRAY CENTER INSTRUMENT PANEL
(1) SWITCH CUTOUT AND BLANK IN CENTER PANEL
BLACK GAUGE BEZELS
LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES



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Fleet #8

Description

INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS
97 DB BACKUP ALARM
ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY
ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED
(1) HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH AND (1) SAE J1939 DIAGNOSTIC INTERFACE CONNECTOR LOCATED CENTER OF DASH
2 INCH ELECTRIC FUEL GAUGE
FUEL FILTER RESTRICTION INDICATOR
EMISSIONS LIMITED IDLE ADJUST
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE
ENGINE OIL TEMPERATURE GAUGE
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY
(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP
ELECTRIC ENGINE OIL PRESSURE GAUGE
OVERHEAD INSTRUMENT PANEL
AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939
DASH MOUNTED RADIO
(2) RADIO SPEAKERS IN CAB
COBRA 29NW LTD CLASSIC FACTORY INSTALLED CB RADIO
ROOF/OVERHEAD CONSOLE CB RADIO PROVISION
MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER



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Fleet #8

Description

STANDARD VEHICLE SPEED SENSOR
ELECTRONIC 3000 RPM TACHOMETER
VT-HU CONNECTIVITY PLATFORM HARDWARE
2 YEARS DETROIT CONNECT BASE PACKAGE
(VIRTUAL TECHNICIAN, DETROIT CONNECT
PORTAL ACCESS) FOR VT-HU CONNECTIVITY
PLATFORM
IGNITION SWITCH CONTROLLED ENGINE STOP
ONE ON/OFF ROCKER SWITCH IN THE DASH
WITH INDICATOR LIGHT AND WIRE ROUTED TO
CHASSIS AT BACK OF CAB, LABEL OPT
PRE-TRIP LAMP INSPECTION, ALL OUTPUTS
FLASH, WITH SMART SWITCH
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH
DRIVER DISPLAY
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR
WITH DELAY PROGRAMMED TO SLOWEST
SPEED WITH PARK BRAKE SET
MARKER LIGHT SWITCH INTEGRAL WITH
HEADLIGHT SWITCH
ONE VALVE PARKING BRAKE SYSTEM WITH
DASH VALVE CONTROL AUTONEUTRAL AND
WARNING INDICATOR
SELF CANCELING TURN SIGNAL SWITCH WITH
DIMMER, WASHER/WIPER AND HAZARD IN
HANDLE
INTEGRAL ELECTRONIC TURN SIGNAL
FLASHER WITH HAZARD LAMPS OVERRIDING
STOP LAMPS

Color

CAB COLOR A: L0006EB WHITE ELITE 8C
BLACK, HIGH SOLIDS POLYURETHANE
CHASSIS PAINT
SUNVISOR PAINTED SAME AS CAB COLOR A
STANDARD E COAT/UNDERCOATING

Certification / Compliance

U.S. FMVSS CERTIFICATION

Extended Warranty

EW4 DD13 VOC \$0 DEDUCTIBLE 7 YEAR/250000 MILES FULL
COVERAGE



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Fleet #8

Description

EATON ULTRASHIFT PLUS V-SERIES 1750 FT/LBS OR LESS
TRANSMISSION EXTENDED WARRANTY, 5 YEARS/UNLIMITED
MILES FEX
EATON HEAVY DUTY CLUTCH EXTENDED WARRANTY, 5
YEARS/UNLIMITED MILES FEX

Body Package

GALFAB ROLL OFF HOIST MODEL OR75-174T118
22' HOIST FACTORY MOUNTED @ GALFAB
39 GPM COMMERCIAL DIRECT MOUNT PUMP WITH 2-
1/2" LARGE GEARS
POLY TRI-AXLE FENDERS
STEEL SURCHARGE
SEVERE DUTY REAR HINGE PACKAGE (4" MORE
BARING THAN COMP)
1/2" X 3-1/2" WARE STRIP ON MAIN RAILS
HEAVY DUTY SUB FRAME
HARD PIPED PLUMBING INSTEAD OF HYDRAULIC
TUBING
TWO EXTRA REAR TAIL ROLLERS INCORPORATED
PER SIDE IN TAIL SECTION
6' CONTAINER GUIDE SILL (ALL CORE TEN STEEL)
REPLACEABLE ROLLER SHAFTS AND ROLLERS
TRUCK LIGHT SEALED LIGHTING SYSTEM WITH LED
LIGHTS
50-GALLON HYDRAULIC OIL TANK
AUTO FOLDING ICC BUMPER (WHEN NOT OPTIONED
WITH PUP HITCH)
REAR CABLE HOLD DOWNS FOR CONTAINERS
5 SPOOL HYDRAULIC VALVE WITH AIR IN CAB FOR 2
SPOOLS
THIS VALVE IS SET UP TO OPERATE HOIST AND
COVER SYSTEM
BRONZE BUSHINGS ON ROLLERS AND ALL WINCHING
SHEAVES
LARGE STEEL TOOL BOX
HOIST PAINTED BLACK
40-TON PINTLE HITCH WITH GLAD HANDS AND 7-PIN
ROUND PLUG
ALC AUTOMATIC LOAD COVER WITH EXT ARMS AND
GANTRY

KK3030 tri axle roll off



11/4/2019 2:07 PM

Fleet - Parks Tractor Loader

Fleet # 6



Product Quotation

**Prepared For:
Paul**

**Town of Trumbull
Trumbull CT**

\$93,800⁰⁰



**Prepared By:
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NORTHLAND JCB
mobile:(860) 500-8648**

Image is for indicative purpose only and may not represent exact equipment being quoted



Northland JCB is proud to serve New England with a core commitment to putting our customers first and matching the right equipment for the right applications. Northland JCB thrives on a reputation built by fanatical customer service and an unparalleled service model. We make doing business with us simple and easy. It is our commitment to customer service that has enabled us to develop enduring customer relationships.

Fleet # 6

We are honored to partner with JCB to offer a wide selection of new and used construction equipment including backhoes loaders, excavators, compact track loaders & skid steers, telehandlers, wheel loaders and more to fulfill our customers' needs.

We are a one-stop equipment dealer offering new and used construction equipment sales, rental, parts, and service with six locations serving Massachusetts, New Hampshire, Maine, Connecticut, and Rhode Island.

Standard Equipment

Standard Equipment and Features & Benefits related to this product are subject to change without notice

| | |
|--------------|--|
| SAFETY | Two post Roll Over Protective Structure (ROPS), Falling Objects Protective Structure (FOPS) and retractable seat belt. Equipped with independent park brake and loader service strut. Rear boom lock activated from operator's compartment; boom swing lock. Vandalism protection with key lock-able hydraulic fill and fuel cap. All locks operate with ignition key. Front and rear horn buttons. |
| ENGINE | 74 HP Turbocharged JCB Diesel by Kohler. Water-cooled, 4 cyl, 2.5 liter T4F engine. Electronic hand and foot throttle. Full flow pressure engine oil lubricant with spin-on filter cartridge. Air to fluid coolers. Separately serviceable radiator, hydraulic and transmission oil coolers. Two stage fuel filtering system utilizing a water/sediment separator and spin-on type filter element. Dual element air filter, dry type with cleanable outer element, replaceable inner element and under hood pre-cleaner. |
| TRANSMISSION | Separate unit mounted to engine Bosche Rexroth hydrostatic 3-speed transmission with anti-stall. High speed roading mode capable of 25 mph. Electrically operated Fwd / Rev lever on steering column. Transmission neutral interlock ensures machines cannot be started in gear. Brake pedals actuation variably reduces transmission pump engagement reducing brake wear and improving loading cycle times. |
| FRONT AXLE | Industrial duty JCB Max-Trac torque proportioning, outboard planetary reduction axle, 4WD shift-on-the-go; steering cylinder located behind front axle. Permanent 4WD. |
| REAR AXLE | Industrial duty JCB Max-Trac torque proportioning. Separate, rigidly mounted to mainframe and connected to transmission via drive shaft. Heavy duty double reduction, outboard planetary gear final reduction. |
| BRAKES | Sealed wet multiple disc. Brake pedals can be independently operated or locked together. Servo-assisted quick fill brakes. Independent hydraulically activated parking brake. Transmission shifts to neutral when park brake is activated. |
| STEERING | Hydrostatic power, with priority valve. Three steering wheel turns (lock to lock). Unbraked turning circle 21' 11". Braked turning circle 19'. |





Standard Equipment

BACKHOE AND MAINFRAME

Utilized, one piece heavy duty mainframe with integral backhoe. Sideshift frame with 3ft 3" kingpost offset capacity and vertical stabilizers. Mainframe and stabilizers within loader bucket width. Fabricated equal length boom and dipper. SAE minimum dig depth 10"; Rear Auxiliary hydraulics (1-way flow); All backhoe hoses routed through king post with junction plate. Rubber street pads (STD)

ELECTRICAL SYSTEM

12 volt system with 100 amp alternator. Wiring harness and outside cab connectors meet IP69 standard for protection against ingress of dust, and pressure spray of 4.23 gpm at 1450 psi. Inside cab connectors meet IP67 standard for protection against ingress of dust, and water when submerged. Single, maintenance free battery rated at 900 cold cranking amps. Two halogen work lights in front and four separate halogen work lights in the rear. Stop lights, turn signals, and four way hazards standard. Backlit gauges and readouts consisting of a tachometer, fuel gauge, engine coolant temperature gauge, digital hour meter and digital clock. Light and alarm for battery charge condition, coolant temp., coolant level, engine oil pressure, engine oil level, transmission oil pressure, transmission oil temp, air cleaner restriction, water in fuel indicator, windshield washer fluid level and park brake engaged. Light indicators for hazard flashers on, turn signals, steering mode, and lights on. 12 volt outlet for powered accessories. Common fuses and relays located in an easy access panel. Main circuitbreakers at battery positive terminal for added circuit protection. Battery Isolator as standard.

LOADER

Equipped with integrally mounted front end loader using two lift cylinders and two bucket dump cylinders. Parallel lift standard using mechanical self leveling during loader raise and lower functions. Dump height 7ft 11". Load over height 9ft 7". Auxiliary loader hydraulics, Smooth Ride system (SRS) and hydraulic quickhitch standard. Rated operating capacity of 3,364 lbs with GP shovel.

OPERATORS ENVIRONMENT

Air suspension seat and retractable seat belt. Left side entry with deluxe trim, full floor mat, fixed steering column, exterior mirrors, pre-wired for beacon, cup holders, storage compartment. Cab also includes operable right side window, one piece rear window to open over head. In-cab noise levels 71 dB(A).

HYDRAULIC SYSTEM

Closed center vari-flow system with axial piston pump, engine driven behind transmission, 28.4 gpm flow @ 2350 rpm. 100% efficiency with flow on demand. Advanced Easy Controls standard. Abrasion protection of valve to boom hoses. Hoses have burst pressure of 4 times working pressure. Structural steel pipes to withstand minor impacts.

TELEMATICS

JCB Livelink telematics. Monitored and managed remotely via a PC or Smartphone. Two year subscription. Real time reporting of machine hours, routine maintenance alerts, location, critical health alerts, fuel level/consumption and work cycle information. Ability to set machine geo-fences and curfews for improved security. Tilt engine hood and lockable front grill. 21.1 gallon fuel tank. 27.47 gallon hydraulic system incl. transmission.





Features and Benefits

Standard Equipment and Features & Benefits related to this product are subject to change without notice

JCB by Kohler engine

No after treatment keeping servicing cost low and downtime minimal

Compact design

35 percent smaller than a standard backhoe providing unrestricted urban access

Ultimate in maneuverability

ZWS/4WS enables tight turning radius helping to increase productivity

Attachment versatility

Compatible with a wide-range of skid steer attachments; bi-directional pipework improves functionality

Comfort and ease of use

Fully adjustable seat, dash mounted display and ISO/SAE control pattern change accomodates all users

Optional hand tool circuit

Provides ability to prepare sites

Sideshift backhoe

Assist in site access ability allowing operator to put the boom where needed for any application as well as decreasing transport length

Front and rear quickhitch

Easy and effortless switching between attachments

10 ft extending dipper

Decreases repositioning increasing efficiency. Optional 12 ft dipper also available

Limited Slip Differential (LSD) axles

Increases tractive effort in all ground conditions

Added value through JCB Assetcare

Provides comprehensive peace at mind warranty and service agreements worldwide

Technical support service

Provides instant access to factory expertise, day or night

Parts distribution

Global network of part centers, delivering 95 percent of all parts any where in the world within 24 hrs





Prepared For:
Paul
Town of Trumbull
Trumbull CT

phone:Moura

Dealer Information
NORTHLAND JCB
A DIVISION OF NORTHLAND INDUSTRIAL
6 JONSPIN ROAD

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Quote Date: 07/02/19
Valid Until: 08/01/19
Quotation Reference: 232325

Model: 3CX 12L4WS

Qty: 1

Equipment Description

3CX COMPACT, 12FT EXTENDING DIPPER, 55KW (74HP) TIER 4 FINAL

Engine: JCB diesel by-kohler 2. 5l 55kw (74hp) stage IIIB/4f
100a, turbo intercooled. Mainframe: 2000Mm (78") aws
sideshift Pump: 100 Lpm (26. 4 gpm) closed centre variable
flow Excavator: 12Ft ext dipper

3CX COMPACT, MODEL PACK
MICHELIN POWER CL TYRE SET,340/80-18
Cab With A/c, Cloth Suspension Seat, For Use With Constant Flow
Cab Electrics, Livelink, For Use With Constant Auxiliary Flow
5/8 Loader Pipework With Srs, Rtd, Constant Flow And Vari Speed
(For Mk2/ssl Qh)
NORTH AMERICA ENGLISH TERRITORY PACK
6 In 1 Shovel - 2000Mm (78 Inch) With Skid Steer Hydraulic
Hitch And Toeplate
18 IN (450 MM) EXCAVATOR BUCKET
LED WORKLIGHT PACK10 OFF
Rotating Amber Beacon
MECHANICAL EXCAVATORQUICKHITCH and 1T SHACKLE
24 Inch JAWBONE BUCKET

| | |
|---------------------------|-----------|
| Equipment Total | 93,800.00 |
| Total Customer Sale Price | 93,800.00 |

Notes: 2 Year/2,000 Hour Machine Warranty

The above quote supersedes all preceding price quotes. Prices quoted are valid for 30 days from quote date.

Customer Acceptance: _____ Date _____

Dealer _____ Date _____



**CAPITAL IMPROVEMENT PLAN
NARRATIVE
2020-2024**

Summaries are listed below.

STANDARD DEFINITION FOR CAPITAL IMPROVEMENT

- Any acquisition or lease of land
- Purchase of major equipment or vehicles in excess of \$10,000 with life expectancy 5+ years
- Construction of new building facilities with cost in excess of \$10,000
- Major building improvements with a cost in excess of \$10,000
- Major equipment or furnishings in excess of \$10,000

BOARD OF EDUCATION

The Board of Education Facilities Director, Mark Deming, BOE Facilities Manager, prepared the plan. Town of Trumbull Engineer developed quotes for school paving projects.

ROADWAYS

Streets were prioritized based on wear, safety, and usage. Cost includes much needed drainage repairs where indicated due to severe deterioration, asphalt, tack, catch basin, manholes, curbing as needed, grading/compacting, loading and trucking of excess material, in addition to an estimate for shoulder restoration charges that will be incurred. Video Inspection was also included for each year. Estimates based on current pricing for milling/reclaiming and asphalt. An additional line item was added each year to cover the cost of any additional drainage repairs that may be required as a result of video inspection findings.

PUBLIC FACILITIES

Costs are based on professional estimates from a report prepared by Antinozzi Associates, which was revised on September 30, 2010. Projects were reviewed and updated as necessary. Projects will be bid as required by Charter and costs are subject to change.

TRUMBULL LIBRARY

The Library Board received a space assessment from Berger Association. From this report the Board's first priority is to expand parking by approximately 35 spaces.

Construction and modernization of existing Library. The plan is to expand on the design approved in previous years to modernize the existing library and subsequent construction. This is to be done in future years.

Alarm system - \$42,000 in CY 2020. The current fire and security are outdated. Security systems become outdated in time, and new, important features are added every year. Those changes can seriously impact the effectiveness of the system. Additionally, the current alarm is a proprietary system, meaning only a select number of suppliers can service the system. Installing a new non-proprietary fire and security system ensures a safer environment for both residents and staff and provides the Town with more supplier options to maintain and support the system.

Building Maintenance System (BMS) - A BMS is the automatic centralized control of a building's HVAC system. Installing this type of automated centralized control system will result in improved occupant comfort, increased efficiency operation of HVAC system and reduction in energy consumption.

TOWN HALL

Town Hall - Renovations to the existing sanitary plumbing and bathroom - \$260,000 in CY 2021.

The Americans with Disabilities Act (ADA) requires modifications to many of the existing facilities within Town Hall for improved accessibility to individuals with physical limitations.

Many of the Town's service counters in the building do not comply with accessible requirements.
Tax Collector's counters - \$80,000 in CY 2020.

Replacement of HVAC system as the current system is aging and requires replacement - \$325,000 in CY 2020.

Additionally there is the need for the sidewalk replacement to provide continued safe and comfortable usage and to meet ADA accessibility standards. - \$25,000 over three years.

POLICE HEADQUARTERS

HVAC connection to BMS system and upstairs bathroom renovations \$100,000 over 2 years.

SENIOR CENTER

New Senior Center design and community approval efforts - \$950,000 in CY 2020. Subsequent construction is estimated in the following years.

Various improvements to the existing building will be required in the next several years if new construction is not approved:

Replace HVAC System in Multi-Purpose Room- The current system is becoming aged and requires replacement to provide comfortable and efficient operations.

2nd Floor Kitchen renovation - The current 2nd floor kitchen is outdated and does not meet the needs of our residents. The goal is to bring the kitchen up to health and safety standards; and to create a more relaxed comfortable eating experience for our senior community.

Elevator modernization - current elevator modernization is required in order to improve efficiency, reliability and public safety.

ADA ramp and door opener - Curb ramps are a critical element in allowing people with disabilities or our senior citizens to have full and complete access to the public right of way. This new ADA ramp and door opener will allow our residents to safely navigate and access our Sr. Center facilities.

Parking lots paving - The current parking lot shows signs of damage and it does not sufficiently meet the current needs of the staff and residents parking at the Sr. Center

Replace Windows at Social Services - windows are outdated and show evidence of deterioration due to age and weather elements. Replacing these windows with energy-efficient ones can reduce heating and cooling costs.

PUBLIC WORKS YARD

Construction - Town Yard Garage maintenance/replacement/culvert and structural improvements to plow garage- \$625,000 in CY 2020. The purpose of this project is to install a concrete culvert behind the highway garage. This will allow for the expansion of the highway garage and greater truck maneuvering around the existing highway facility.

Siding and stairwell replacement at building #6 - \$162,000 in CY 2021. The siding and stairs have major structural issues and advanced rot damage that has spread throughout the building's exterior that requires replacement. The stairwell does not conform to current fire and building codes and needs replacement in order to mitigate liability risks.

HELEN PLUMB BUILDING

HVAC system replacement- \$80,000 in CY 2020. Current HVAC system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations. Replacement to be done in partnership with UI.

Window and siding replacement - \$ 90,000 in CY 2021. Windows are outdated and show evidence of deterioration due to age and weather elements. Replacing these windows with energy-efficient ones can reduce heating and cooling costs. Some exterior areas of the building structural issues and advanced rot damage requires replacement.

Roof replacement - \$60,000 in CY 2022. The building's roof shows signs of damage due to old age and weather. Replacement is needed in order to prevent any possible damage to property.

EMS BUILDING

Site Construction reconfiguration and expansion design - \$50,000 in CY 2020. The proposed EMS facility expansion will be designed and operated so as to maintain and promote public health, safety, and general welfare. EMS provides emergency services to those in need. In recent years, the Town has recognized the need for additional and modernized space in order to serve the needs of the Town. Subsequent construction is estimated in the following years.

RTU Rooftop Unit Replacement - \$54,000 in CY 2022. Replacement of 3 packaged 3-ton units. Current HVAC system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations. Cost is based on Antinozzi Associates building inspection report.

TRANSFER STATION

Concrete Slab repair - \$45,000 in CY 2020. The concrete slab and subfloor on the commercial side of the Transfer Station has small cracks, hairline fractures moderate in nature. The structure is structurally sound but needs repairs to avoid further damage and avoid full replacement costs.

Generator - \$155,500 in CY 2020. This facility currently does not have a generator or sufficient backup power that would be necessary to keep the facility running in the event of a total power failure. The requested funds will be used to install a unit at the Transfer Station in order to avoid shut downs of this facility's operations.

Roof replacement - \$140,000 in CY 2021. The building's roof shows signs of damage due to old age and weather. Replacement is needed in order to prevent any possible damage to property.

New pre-fabricated salt shed - \$30,000 in CY 2020. Currently this facility does not have a salt shed to store material used to treat driveways/roads/parking at the transfer station after snow storms in order maintain a safe environment for residents and employees. The new salt shed will maximize the life of salt stockpiles by offering a durable, environmentally conscious, cost effective storage solution.

The above estimated costs will be funded by TEAM, Trumbull will pay 60% and Easton and Monroe will pay 40%.

TOWN WIDE

Town wide sidewalks - \$80,000 in CY 2020. Sidewalk surface conditions are making routes inaccessible, or dangerous to pedestrians. Sidewalk replacement and repairs are necessary and will cycle through the community, focusing on different neighborhoods over a number of years as repairs become necessary.

PARK IMPROVEMENTS

Indian Ledge New Artificial Field and lighting - \$1,500,000 in CY 2020.

Adding additional Synthetic Turf Athletic Fields (SAT) to the Town's inventory is a stated goal of the Parks and Recreation Department and THS Athletic Department and is supported by the community athletic organizations representing thousands of Trumbull youth athletes. SAT fields offer several advantages over traditional natural turf fields. The SAT virtually eliminates cancellation of games and practice due to weather. The quality playing surface is not compromised by overuse allowing for a much greater intensity of scheduling particularly when compared to a varsity facility in which insuring the quality of a grass surface leads to significant restrictions in scheduling. As an offset to the higher construction costs, SAT fields require a minimum of maintenance reducing labor, materials costs and emission of greenhouse gases associated with small engine maintenance equipment such as lawn mowers.

Irrigations - \$25,000 per year in CY 2021 and 2022.

Rest Room Upgrades -\$56,000 each year for two years.

The Parks and Recreation Department started in 2017 a four-year program designed to upgrade the interior of the public restrooms (2 per year) within the park system. Replacement of plumbing fixtures with automatic flush meters, exhaust fans and lights on motions sensors and timers will improve sanitary conditions and odor control while reducing utility costs and making the restrooms more welcoming for guests. Project pricing includes roof replacement. Estimate of cost is provided by Parks Department based on scope of work.

Various Locations - Wooden guardrails and installation - \$100,000 over next 2 years. The Town Parks system has various locations that have existing guard rails or other vehicle deterrents such as pipes and chains that are well past their useful life and need to be replaced.

Indian Ledge Sprinkler Park replacement - \$200,000 in CY 2020. Indian Ledge Sprinkler has a number of broken lines within its concrete pads. In order to make those repairs the entire area must be disassembled.

Kaatz Pond - Dredging construction - \$286,000 in CY 2021. Kaatz Pond Park is the site of the Old Ice House in Town. As with most of our ponds and waterways within the Parks System, this has been filled in significantly with storm water runoff creating large deltas of sand and debris.

Twin Brooks Dredging construction - \$545,700. Design will be done in CY 2020 and construction in CY 2021. As with most of our ponds and waterways within the Parks System, this has been filled in significantly with storm water runoff creating large deltas of sand and debris.

Bills Property Design & Development- \$250,000 in CY 2021. We are seeking design work to establish the creation of a new driveway that would enable two way traffic through the Huntington Road entrance to the Main Fields as well as Parking above the main Field and secondary egress through Round Hill Road.

Abraham Nichols Barn - \$60,000 in CY 2021. Due to the age of the building, roof, windows and doors need replacement.

Veteran's Center design is being requested at a cost of \$200,000 and construction funding is estimated at \$2,000,000 in a subsequent year. Inclusion in the capital plan will enable federal, state, and private grants to be pursued to fund the project

Paving and Drainage at Indian Ledge, Phase 1 - \$865,000 in CY 2020. Phases 2 through 4 will be done in subsequent years.

Paving and Drainage at various parks - \$500,000 at Twin Brooks in CY 2020. Unity Park, Twin Brooks and Old Mine/Counseling Center to be done over the subsequent 2 years.

The asphalt paved parking lots and roadways within Twin Brooks Park are well over thirty years old and are in need of replacement. The area is prone to flooding and flood damage has scoured away all of the original paving on the lower parking areas requiring costly annual patching with

reclaimed millings to maintain a functioning parking lot. Uneven and broken pavement presents potential for trip and fall incidents in one of the town's most heavily utilized facilities.

Prior to repaving the lots, a full review of the drainage components will be conducted with appropriate repairs and renovations to the storm water drainage systems which are no longer functioning effectively. The underground culverts are in a significant state of decay and the storm drain head walls are deteriorating and no longer properly direct water flow resulting in a negative impact on the adjacent natural resources. This is a necessary infrastructure maintenance project to improve the asset, and to ensure proper storm water management and public safety impacting park users and neighboring residents.

Tashua Pool – Design \$165,000 in CY 2020. Upgrades and renovations in the following year. Tashua Knolls pool has been on the five-year plan for a variety of repairs and upgrades over the last few years. This past spring the pool exhibited more significant problems requiring emergency repairs. In addition, the liner is over 17 years old and in need of replacement as are the remaining deck slabs which have settled, both of which have been scheduled for replacement in the 5-year plan.

Aquatics Facility design and surveys - \$950,000 in CY 2020 is being requested to assess potential locations for a facility and develop a conceptual design, and then construction funding is estimated for the following years.

Tennis/Pickleball Courts at Tashua and Unity – \$750,000 in CY 2020. Courts are reaching poor condition and will require replacement to assure safe playing conditions. Replacement of Tennis Courts at Tashua Courts 1 through 4 will be done in CY 2020. The remainder of the courts at Tashua, Island Brook Unity and Nothnagle will be done over the subsequent 3 years.

FLEET & EQUIPMENT

Highway and Parks equipment replacement – Estimated cost is \$1,070,000 in CY 2020.

The Highway Department replaces equipment based on usage and condition. The vehicle may have rust and erosion due to road or work conditions that require replacement sooner than the recommended useful life. The general rule is to replace this equipment every 15 to 20 years.

EMS Ambulances/Sprinters. Replacement of sprinter \$120,000 in CY 2020. Ambulance-Box replacement of 1 each of the subsequent years.

Emergency Management Command Center - \$800,000 in future years. This is a much needed asset that will be used to replace a near 20 years old towable trailer. This will make for easier deployment and have upgraded technologies that will carry Trumbull's Emergency Services well into the future. Inclusion in the capital plan will enable federal, state, and private grants to be pursued to fund the project

Trumbull Community Television – Requesting a replacement of a Tricaster System for live streaming at a cost of \$36,000 in CY 2020. This will be used to live stream town boards/commissions and other community meetings.

ECONOMIC DEVELOPMENT

The continuation of Rails to Trails project funding is coordinated with the State Department of Transportation and Connecticut Metropolitan Council of Governments (formerly Greater Bridgeport Regional Planning). LOTCIP grant for trail head/connection for Church Hill.

Trumbull Center – Construction of Boulevard Project \$4,450,000 in CY 2022.

Long Hill Connectivity – Whitney to Governors Ridge and Former Marissa’s restaurant. Grant awarded for \$415,000.

White Plains Road Trail connection from state parking lot to Twin Brooks Park on White Plains Road/ DEEP grant with town match for design \$160,800. Modifications and signage to the commuter lot to create a dedicated trail head. Installation of sidewalks to the Twin Brooks area to connect the trail in both directions and footbridge installation

Dunellen to trail and Whitney Avenue sidewalk design and construction. Design of \$100,000 in CY 2020 and construction in the subsequent years.

Bicycle and Pedestrian Master Plan to be designed and constructed in subsequent years.

Mall planning Study-Trumbull Mall/area/Southern Gateway Planning Study. Design of \$50,000 in CY 2020.

ENGINEERING

Colony Road – Sedimentation removal construction \$387,402 in CY 2021.

Daniels Farm Road-Drainage design, drainage improvements and roadway improvements \$3,669,990 over the next several years.

Town Wide Bridges- These project are being established to design the repairs identified by structure inspection of various bridges. Design in the amount of \$120,000 will be performed in CY 2020. Construction will be done over the next several years.

Old Town Road – Roadway improvements/Design and construction projected to be done in CY 2021. Inclusion in the capital plan will enable federal, state, and private grants to be pursued to fund the project.

Paving, culverts and sidewalks design and construction to various town roads. Design cost of 678,434 included in CY 2020.

ENTERPRISE

WPCA projects are provided by Town Engineer for various town wide repairs.

Whitney Avenue and Merritt Boulevard Pump Stations –The WPCA initiated a Town Wide pump station analysis and as a result, the Whitney Avenue and Merritt Boulevard design and replacement are to be done over the next several years. Design in the amount of \$241,000 is being requested in CY 2020.

WPCA Contract V sanitary sewer design and construction - \$4,950,000 in CY 2021.

Golf Course

Golf Clubhouse – Feasibility study and architect renderings will be done over the next several years.

Various Golf Course related equipment to be purchased over the next several years.

CIP 2020 - 2024

Public Facilities

Library

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Trumbull Library

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Alarm system - The current fire and security are outdated. Security systems become outdated in time, and new, important features are added every year. Those changes can seriously impact the effectiveness of the system. Additionally, the current alarm is a proprietary system, meaning only a select number of suppliers can service the system. Installing a new non-proprietary fire and security system ensures a safer environment for both residents and staff and provides the Town with more supplier options to maintain and support the system.

Parking lot expansion - as the population of the Town rapidly grows the current parking lot is inadequate in size to accommodate residents and employees.

Building Maintenance System (BMS) - A BMS is the automatic centralized control of a building's HVAC system. Installing this type of automated centralized control system will result in improved occupant comfort, increased efficiency operation of HVAC system and reduction in energy consumption.

What existing facilities or conditions will be affected by the project? How will this project improve these?

All the proposed plans will affect the main Library. The projects will increase public safety and create a more energy efficient building.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2020 - 2024 construction

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|--|-----------------------|-----------|-----------|---------|---------|-----------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Construction and library modernization Replace security and fire alarm system (non-proprietary system) | 42,000 | 3,000,000 | 3,000,000 | | | 6,000,000 |
| Parking lot expansion | | 110,000 | | | | 110,000 |
| Replace BMS (Building Management System) | | | | 30,000 | | 30,000 |
| | | | | | | - |

Pub Fac # 1

Pub Fac # 2

Pub Fac # 3

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

Library Alarm



Public Facilities # 1

L5 106051

L6 106055

1087 FEDERAL ROAD • BROOKFIELD, CONNECTICUT 06804

Tel: 203-775-8788 • www.UnitedAlarm.com • Fax: 203-775-8222

Sent Via E-Mail: awhite@trumbull-ct.org

Allen White
Town of Trumbull
Trumbull, CT

June 28, 2019

RE: Proposal for Replacement of Fire Alarm Systems- Town Hall, Library, Senior Center

Dear Allen,

United Alarm Services is committed to providing quality installations with a technical staff that is fully licensed and insured. In addition, we provide a 24 hour service and state of the art monitoring from our company owned Central Station facility in Brookfield, Connecticut.

On the following pages you will find a breakdown of the devices and costs for this proposed work. Please call me should you have any additional questions at 203 775-8788. I look forward to working with you on these projects.

Thank you,

Jimmy Corbett

Allen White
Town of Trumbull
Trumbull, CT
June 28, 2019

RE: Proposal for Replacement of Fire Alarm Systems- Town Hall, Library, Senior Center
Page 2

Upon approval, United Alarm will provide the following service and equipment:

Replacement of the Current Proprietary Fire Alarm with Addressable NON-PRORIETARY Master Fire Control Panel

Replace All Addressable Devices Within the System

Includes Labor, Programming, Devices Listed and Training

Total Installation Cost: \$35,000 per Location

added 20% for incidentals

Terms: A 50% Deposit is due prior to commencement of the work with the balance due upon completion of the scheduled work. If the project is completed in stages, progress payments would apply. Monitoring fees will be billed annually, or semi-annually, in advance plus applicable sales tax.

ACCEPTANCE OF PROPOSAL- The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. This quote is subject to a review of the insurance requirements of the buyer and that any increased cost to insure for the quoted project may be added to the price for services/materials quoted by United Alarm.

Jimmy Corbett- United Alarm Representative Subscriber Date

Peter Engstrom
19 Olmstead Hill Road
Wilton, CT 06897
RE: Proposal for Alarm System Installation
June 25, 2019
Page 3

Home Automation Available for above listed system with device options below to be controlled via ONE APP on your Smartphone Connected through the United Alarm installed system.

Z-WAVE Options with Z-Wave Module Activated (Adds \$5 to monitoring for any or all):

Polished Brass Z-Wave Lockset with Integration to System +\$245.00 each #__ Initial__
(Other finishes are available)

Integrated Digital Thermostat for Both Heating and Cooling (Installed by HVAC Contractor) +\$189.00 each #__ Initial__

Z-Wave Lamp Module (Controls any plug in device) + \$95.00 each #__ Initial__

Z-Wave Dimmer Switch (Controls any switch group) + \$76.00 each #__ Initial__

*****See Other Z-Wave Options Available at- z-wave.com*

Pub. Fac. #1

Terms:

A 50% Deposit is due prior to commencement of the work with the balance due upon completion of the scheduled work. If the project is completed in stages, progress payments would apply. Monitoring fees will be billed annually, or semi-annually, in advance plus applicable sales tax.

ACCEPTANCE OF PROPOSAL— The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. This quote is subject to a review of the insurance requirements of the buyer and that any increased cost to insure for the quoted project may be added to the price for services/materials quoted by United Alarm.

Steve Kolitz- United Alarm Representative

Subscriber

Date

Library Parking Lot

Pub Fac # 2

TThe
LTrumbull Library
System

SUEAN J. HORTON
Director

Received
8/13/16

TO: Maria T. Pires, Director of Finance
FROM: Arthur A. Kukla, Treasurer, Library Board of Trustees
RE: Five-Year Capital Plan
DATE: June 13, 2016

Attached is information requesting the construction of additional parking for the Trumbull Library located on Quality Street. This project was previously requested in 2011. Since then our lack of adequate parking for our patrons and activities has become more serious.

If you have any questions or need additional information, please contact me at 203 375-5117 or Jeannine Stauder at 203 268-3001.

Justifying the need for additional parking spaces:

When the library was built in 1974 parking was barely adequate. Since 1974, a new children's wing has been added, community room usage has increased so that there is now a shortage of available times for individuals wanting to use the room. As the population of the town has grown the library has constantly reorganized to meet the needs of the Citizens of Trumbull. A technology center with up to date computers is available, a teen area to recognize their needs, study areas, reading areas and space for the increase in printed material from technology to the best sellers. The interior of the library is constantly being reorganized to serve the changing needs of our patrons. Recently the library hosted focus groups to discuss the future of the library system. The major complaint of those attending was the severe lack of parking. Patrons have to park on street between the library and the town hall, in the town hall parking area and across the street in the Stop & Shop parking area. In 2011, the Board worked with the Public Works Dept. and other interested groups to develop a plan for an additional 35 spaces. The project was put out to bid in May 2011. Nine proposals were received. A decision by the Administration was made to reject the proposal. Since then the need for additional parking has become more acute.

Once again the Library Board is requesting funds for additional parking. There is no change in the 2011 plans. If approved the additional parking should become available during the second half of 2016.

Pub Fac # 2

**TOWN OF TOWN TRUMBULL
BID RESULTS**

RFP# 5893 PAVING OF LIBRARY PARKING LOT DUE: 05/24/11

| COMPANY | TOTAL PROPOSE |
|--------------------------|---------------|
| D&P Construction | 196,500.00 |
| G. PIC | 113,760.00 |
| Dearing Construction | 108,700.00 |
| Cherry Hill Construction | 125,584.00 |
| R. S. Sita & Septic | 88,825.00 |
| Guerra Construction | 119,000.00 |
| B&W Paving | 108,204.00 |
| Reliable Excavating | 98,914.25 |
| Dalling Construction | 134,850.00 |
| | |

R. Chimini, Purchasing Agent

Library Building Maintenance System



1180 STRATFORD ROAD
STRATFORD, CT 06615
203.334.3419
203.333.3934 FAX
WWW.MAINHVAC.COM

Pub Fac. # 3

July 10, 2019

Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Attn: Allen White

Re: Library control upgrade

Pursuant to our conversation regarding upgrade of the control system located at the **Library**, We are pleased to submit the following proposal and scope of work:

- **Provide engineering, web server, graphics, programming, wiring and wiring diagrams for the site.**
- **Provide and install controls for RTU 1, AH1, and Boiler**
- **Start and test all units.**

The price for the above work is: \$30,000.00

GUARANTEE

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delay beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance. If there is any default on payments, the signor agrees to pay all collection fees, court costs and lawyer fees and 1-1/2% per month interest, on the unpaid balance, not to exceed 18%. Such default will result in cancellation of all Warranties and Guaranteed work on any and all equipment.
Note: We may withdraw this proposal if not accepted within 30 days.

In hopes that you find this proposal acceptable, please sign below and return back via email jleslie@mainhvac.com or fax 203-683-1429 so that we may order the necessary items and schedule your work. If you have any questions, please feel free to contact me at 203-334-3419, extension 1416. I look forward to hearing from you.

Jim Leslie

7-10-19

Jim Leslie
Service Manager

Date

Accepted by (Customer)

Date

**CIP 2020 - 2024
Public Facilities**

TOWN HALL

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Town Hall

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Sidewalk replacement - the existing sidewalk is in poor condition and poses a safety risk for pedestrians. Townwide sidewalks require ongoing rehabilitation to provide for continued safe and comfortable usage and to meet ADA accessibility standards. Repairs are needed in order to mitigate liability risks to the Town. There is approximately 3,600 square feet of lifted and or cracked sidewalk around the Town Hall campus. Current pricing on the Towns On Call Bid is \$16.00 per square foot for a total of \$57,600

Town Collector Security & ADA compliant service counters - the service counters do not comply with accessible requirements. The space will have safety and accessibility issues addressed to comply with ADA Compliance requirements and increased security.

Replace HVAC System (schematic design and replacement) - The current system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations.

Restroom Renovations (ADA compliant) - The Americans with Disabilities Act (ADA) requires modifications to the existing restroom facilities within Town Hall for improved accessibility to individuals with physical limitations.

Floor Tiling - tiles are showing signs of wear and tear in several areas of the building. Replacement is needed in order to create a safe environment for employees and public as well as maintain a professional appearance in our public buildings.

Will this project necessitate staffing increases?
No

What is the general plan and timeline for completion?
Estimated 2020 - 2025 construction

Are there any outside funding sources, e.g., grants?
No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|--|-----------------------|---------|---------|---------|---------|---------|---|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| TH sidewalk replacement | 25,000 | 25,000 | 25,000 | | | 75,000 | Pub Fac #4 based on prior estimate |
| Tax collector security counters | 80,000 | | | | | 80,000 | |
| Consulting services for plans & specs to replace HVAC system | 25,000 | | | | | 25,000 | Pub Fac #6 |
| Replace HVAC system | 300,000 | | | | | 300,000 | Pub Fac #6 |
| Restroom renovations ADA compliant | 260,000 | | | | | 260,000 | Pub Fac #7 |
| Finishes - Floor Tiling | - | | | | 44,000 | 44,000 | Pub Fac #8 |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

TH Sidewalks

Town Hall Sidewalk replacement estimates

Costs are estimated based on current bid for sidewalks and curing. The bid is for Board of Ed but the prices were used for estimation purposes. Costs were calculated as follows:

Estimated Linear footage x price per linear foot per bid# 6241.

Bid docs are attached.



Trumbull Town Hall
5866 Main Street
Trumbull, Connecticut 06611

Office of the Purchasing Agent
KEVIN J BOVA
Office 203 452 5042
Fax 203 452 5083

kbova@trumbull-ct.gov

June 1, 2017

Pub Fac # 4
TH Sidewalks bid
pricing

D & P CONSTRUCTION INC
29 ESSEX LANE
Trumbull CT, 06611

Attention: Livio Paniccia V.P.

Subject: Notice of AWARD

**RFP 6241 REMOVAL AND REPLACEMENT OF SIDEWALK AND CURBS
ON CALL UNIT PRICING**

The Town of Trumbull and the Board of Education has considered the Bid submitted by D & P CONSTRUCTION INC For the subject Services in response to its Advertisement for Bid 6241.

You are hereby notified that your Bid 6241 has been accepted as follows:

The Town of Trumbull and the Trumbull Board of Education Selects D & P CONSTRUCTION INC

as **ONE** of the Contractors for scope of the work described in BID 6241. The BOE and or the TOWN will select on an as needed bases. The bases of the selection will be lowest from the proposal page from the pricing structure as it pertains to each Job.

Per your Bid 6241 documentation, you may proceed or may be called upon from the Town of Trumbull or the BOE as needed for the next 3 years. This award letter is good for 3 years and valid until June 30 2021. Per your pricing in Bid 6241

Please acknowledge your receipt of this correspondence (via fax or email). You may contact BOE facilities director Mark Deming or myself.

Thank you for your interest in serving the Town of Trumbull

Kevin J Bova
Purchasing Agent

ACCEPTANCE OF NOTICE

Receipt of the above **NOTICE OF AWARD IS** hereby acknowledged by

Name (Print) Livio R. Paniccia This the

1st day of June 2017

By (signature) [Signature]

Title VP

**TOWN OF TOWN TRUMBULL
BID RESULTS**

Pub Fac # 5
TH Sidewalks bid
pricing

| RESULTS for Bid 6241- -REMOVAL AND REPLACEMENT OF SIDEWALK AND CURBS ON CALL UNIT PRICING | | | | | | | | | | | |
|---|--|--|--|--|--|---|--|--|-------------------------|--------|----------|
| Request for Proposal-REMOVAL AND REPLACEMENT OF SIDEWALK AND CURBS | | | | | | | | | | | |
| RFP# 6241-DUE: May 24 ,2017 @ 2pm Bids Received | | | | | | | | | | | |
| PRICES → COMPANY↓ | 1) Concrete curb only Per Linear ft | 2. Concrete 5' sidewalks with monolithic - per sq ft | 3. Concrete 6' sidewalks with monolithic per sq ft | 4. Concrete sidewalk replace no curb per sq ft | 5) Concrete ADA apron with tactile tiles per sq ft | 6) Concrete ADA ramps for building egress per sq ft | 7) Concrete Driveway Apron with flush curb per sq ft | 8. Asphalt binder coat patching per sq ft | 9) Annual Escalation | | |
| RELIABLE EXCAVATING CO., INC | \$32.00 | \$16.00 | \$16.00 | \$12.00 | \$30.00 | \$30.00 | \$16.00 | \$85.00 | 4.0% | 100.00 | \$237.00 |
| CERILLI CONSTRUCTION | \$21.00 | \$14.75 | \$16.00 | \$9.25 | \$13.75 | \$15.75 | \$9.50 | \$6.50 | 2.0% | 100.00 | \$106.50 |
| PARK CITY CONSTRUCTION | \$13.50 | \$15.00 | \$16.00 | \$7.75 | \$24.00 | \$14.00 | \$12.50 | \$2.00 | 3.0% | 100.00 | \$104.75 |
| WILLIAM M LAYDON CONSTRUCTION | \$55.00 | \$28.00 | \$28.00 | \$15.00 | \$35.00 | \$35.00 | \$28.00 | \$15.00 | 3.0% | 100.00 | \$239.00 |
| LAYDON INDUSTRIES | \$38.00 | \$13.50 | \$13.50 | \$10.00 | \$40.00 | \$55.14 | \$20.00 | \$10.00 | 3.0% | 100.00 | \$200.14 |
| VAZ QUALITY WORKS LLC | \$22.00 | \$12.00 | \$13.00 | \$8.00 | \$15.00 | \$12.00 | \$12.00 | \$6.00 | 2.0% | 100.00 | \$100.00 |
| COLONNA CONCRETE & ASPHALT PAVING LLC | \$32.00 | \$23.50 | \$26.50 | \$15.50 | \$18.50 | \$25.50 | \$23.50 | \$12.50 | 4.5% | 100.00 | \$177.50 |
| M. RONDANO ,INC. | \$35.00 | \$17.80 | \$17.80 | \$12.30 | \$27.00 | \$20.00 | \$19.00 | \$4.00 | 5.0% | 100.00 | \$152.90 |
| STAR CONSTRUCTION CORP. | \$45.00 | \$18.00 | \$20.00 | \$11.00 | \$25.00 | \$25.00 | \$16.00 | \$11.00 | 10.0% | 100.00 | \$171.00 |
| G.PIC & SONS CONSTRUCTION CO. | \$30.00 | \$12.50 | \$13.00 | \$10.00 | \$15.00 | \$15.00 | \$15.00 | \$3.00 | 5.0% | 100.00 | \$113.50 |
| D&P CONSTRUCTION INC. | \$27.00 | \$9.44 | \$9.44 | \$7.44 | \$14.75 | \$14.75 | \$11.00 | \$3.45 | 8.0% | 100.00 | \$97.27 |
| RESOURCE SERVICE LLC | \$32.00 | \$15.00 | \$15.00 | \$10.00 | \$25.00 | \$22.00 | \$14.00 | \$6.00 | 10.0% | 100.00 | \$139.00 |

Kevin J Bova Purchasing Agent
May 24, 2017 @ 2PM

TH-HVAC

System



1180 STRATFORD ROAD
STRATFORD, CT 06615
203.334.3419
203.333.3934 FAX
WWW.MAINHVAC.COM

Pub. Fac. # 6

Trumbull Town Hall

Current System

6 - Trane RTU's 1 thru 6

1 - Split System AHU 7

Unity wireless BMS

55 - Volume dampers with two position actuators

11 - Bypass dampers

BMS cycles RTU's and Split System for heating and cooling. Local thermostats control volume dampers open for cooling closed for heat. Volume dampers are not currently modulating they are open or closed. Bypass dampers are controlled to maintain static. RTU 2 serving the Court room is constant volume.

Recommendations

1

- Replace Unity wireless BMS with wired Honeywell WEBS Tridium based BMS all systems
- Replace 55 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 11 bypass dampers and replace actuators.
- Perform full maintenance on all RTU's and Split System to verify proper operation.
- Perform Air Balancing on all building systems and diffusers. **Budget \$238,000**

Added estimated \$25,000 for consulting services to get plans and schematic design for bid request.

- Replace Unity wireless BMS with wired Honeywell WEBS Tridium based BMS all systems.
- Replace actuators with modulating on 55 volume dampers and make repairs as necessary.
- Replace actuators on 11 Bypass dampers and make repairs.
- Perform full maintenance on all RTU's and Split System to verify proper operation.
- Perform Air Balancing on all building systems and diffusers.

Budget \$204,000

3

- Provide and install Honeywell WEBS Tridium based BMS to accommodate phasing of equipment change over from current Unity wireless BMS to wired Tridium BMS.

Budget \$18,000

4

- Replace Unity wireless BMS for RTU 6 system with wired Tridium BMS.
- Replace 14 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 6 to verify proper operation.
- Perform Air balancing on RTU 6 and related diffusers. **Budget \$50,000**

5

- Replace Unity wireless BMS for RTU 5 system with wired Tridium BMS.
- Replace 8 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 5 to verify proper operation.
- Perform Air balancing on RTU 5 and related diffusers. **Budget \$32,800**

6

- Replace Unity wireless BMS for RTU 4 system with wired Tridium BMS.
- Replace 13 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 4 to verify proper operation.
- Perform Air balancing on RTU 4 and related diffusers.

Budget \$43,500

7

- Replace Unity wireless BMS for RTU 3 system with wired Tridium BMS.
- Replace 8 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 3 to verify proper operation.
- Perform Air balancing on RTU 3 and related diffusers. **Budget \$33,000**

8

- Replace Unity wireless BMS for RTU 1 system with wired Tridium BMS.
- Replace 5 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 1 to verify proper operation.
- Perform Air balancing on RTU 1 and related diffusers. **Budget \$26,000**

9

- Replace Unity wireless BMS for AHU 7 system with wired Tridium BMS.
- Replace 7 volume dampers with VAV boxes (add electric reheat to perimeter if sufficient power is available in building).
- Repair Bypass damper and replace actuator.
- Perform full maintenance on AHU 7 to verify proper operation.
- Perform Air balancing on AHU 7 and related diffusers. **Budget \$30,000**

10

- Replace Unity wireless BMS for RTU 6 system with wired Tridium BMS.
- Repair 14 volume dampers and replace actuators with modulating.
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 6 to verify proper operation.
- Perform Air balancing on RTU 6 and related diffusers.

Budget \$38,000

11

- Replace Unity wireless BMS for RTU 5 system with wired Tridium BMS.
- Repair 8 volume dampers and replace actuators with modulating.
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 5 to verify proper operation.
- Perform Air balancing on RTU 5 and related diffusers. **Budget \$29,000**

12

- Replace Unity wireless BMS for RTU 4 system with wired Tridium BMS. •
 - Repair 13 volume dampers and replace actuators with modulating
 - Repair 2 Bypass dampers and replace actuators.
 - Perform full maintenance on RTU 4 to verify proper operation.
 - Perform Air balancing on RTU 4 and related diffusers.
- Budget \$39,500**

13

- Replace Unity wireless BMS for RTU 3 system with wired Tridium BMS.
- Repair 8 volume dampers and replace actuators with modulating •
- Repair 2 Bypass dampers and replace actuators.
- Perform full maintenance on RTU 3 to verify proper operation.
- Perform Air balancing on RTU 3 and related diffusers. **Budget \$29,500**

14

- Replace Unity wireless BMS for RTU 1 system with wired Tridium BMS.
 - Repair 5 volume dampers and replace actuators with modulating • Repair 2 Bypass dampers and replace actuators.
 - Perform full maintenance on RTU 1 to verify proper operation.
 - Perform Air balancing on RTU 1 and related diffusers.
- Budget \$23,500**

15

- Replace Unity wireless BMS for AHU 7 system with wired Tridium BMS.
 - Repair 7 volume dampers and replace actuators with modulating.
 - Repair 1 Bypass damper and replace actuator.
 - Perform full maintenance on AHU 7 to verify proper operation.
 - Perform Air balancing on AHU 7 and related diffusers.
- Budget \$25,500**

16

Pub. Fac. # 6

- Replace Unity wireless BMS for RTU 2 with wired Tridium BMS.
- Perform full maintenance on RTU 2 to verify proper operation.
- Perform Air balancing on RTU 2 and related diffusers.

Budget \$8,500

Summary

The bulk of the calls for the Town Hall are related to the Unity BMS. Communication issues seem to be the most common occurrence. Our recommendation is to upgrade with Honeywell WEBS Tridium based web server based BMS.

ADA Restroom Renovations (2)

December 6, 2019

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

Dear Mr. White:

Per your request, we are presenting this proposal for architectural / engineering fees as well as construction budgets for the following projects:

Helen Plumb Building:

Window Replacements
Construction Estimate: \$75,000 A/E Fee: \$14,000

Roof Replacement
Construction Estimate: \$45,000 A/E Fee: \$12,000

Front Door Replacement
Construction Estimate: \$5,000 A/E Fee: \$0

Transfer Station Building

New Emergency Generator
Construction Estimate: \$140,000 A/E Fee: \$14,000

Concrete Floor Slab Repairs
Construction Estimate: \$26,000 A/E Fee: \$10,000

Roof Replacement
Construction Estimate: \$120,000 A/E Fee: \$18,000

New Pre-Fabricated Salt Shed
Construction Estimate: \$30,000 A/E Fee: \$0

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms
Construction Estimate: \$80,000 A/E Fee: \$15,000

Handicap accessible improvements to (2) toilet rooms
Construction Estimate: \$140,000 A/E Fee: \$24,000

Council Chambers – Paint walls & Refinish wood
Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk
Construction Estimate: \$3,000 A/E Fee: \$0

Total = \$ 259,000



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604
t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851
t 203.956.5460

www.antinozzi.com

TH- FLOOR TILING

| CSI / Spec # | CSI Format Names | Report Item Names | Previous Report # / New Item | Complete | Quantity | Totals By Division | Suggested 5 Year Capital Implementation Plan | | | | | Comments / Notes |
|---|---------------------------------------|----------------------------|------------------------------|----------|----------|--------------------|--|---------|----------|-----------|----------|--|
| | | | | | | | 2010 - 11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | |
| DIVISION 6 - Wood and Plastics | | | 0 | 0 | | | | | | | | |
| 01 | 08130 Heavy Timber Construction | Wood Beams | 4.04 | | | | | | | | | |
| 0 | 08402 Interior Architectural Woodwork | Wall Finishes (Int Trim) | 5.02 | No | 500 LF? | | | | | | \$1,000 | |
| 0 | 08201 Exterior Finish Carpentry | | 0 | New Item | | | | | | | | |
| Division 6 - TOTALS | | | | | | \$1,000 | | | | | | |
| DIVISION 7 - Thermal & Moisture Protection | | | 0 | | | | | | | | | |
| 0 | 07511 Built-Up Asphalt Roof | Roofing | 2.01 | No | 5500 SF | | \$75,000 | | | | | Replacement of existing roof system recommended. |
| 0 | 07313 Slate Shingles | | 0 | No | 5304 SF | | \$1,000 | | | | | Cost allocated for general maintenance only |
| | 07411 Metal Roof Panels | | 0 | New Item | | | | | | | | |
| 0 | 07480 Sliding Systems | Exterior Walls | 3.01 | | | | | | | | | |
| 0 | 07920 Joint Sealants | | 0 | New Item | Yes | 30 LF | | | | | | Expansion joint sealing was completed |
| 0 | 07311 Asphalt Shingles | | 0 | New Item | | | | | | | | |
| | 07811 Sprayed Fire Resistive Material | | 0 | New Item | | | | | | | | |
| | 07321 Clay Roof Tiles | | 0 | New Item | | | | | | | | |
| 0 | 0 | | 0 | 0 | | | | | | | | |
| Division 7 - TOTALS | | | | | | \$76,000 | | | | | | |
| DIVISION 8 - Doors & Windows | | | 0 | 0 | | | | | | | | |
| 0 | 08110 Steel Doors & Frames | Exterior Doors | 3.02 | | | | | | | | | |
| 0 | 08550 Wood Windows | Windows | 3.03 | No | 2000 SF | | | | | \$150,000 | | All existing single pane wood windows to be replaced |
| | 08520 Aluminum Windows | | 0 | 3.03 | | | | | | | | |
| | 08710 Door Hardware | Hardware | 5.08 | No | 7 | | \$4,500 | | | | | Keying system shall be evaluated in connection with the Security evaluation / hardware upgrades required. |
| 0 | 08211 Flush Wood Doors | Interior Doors | 5.05 | No | 13 | | \$14,000 | | | | | |
| | 08322 Detention Doors & Frames | Reconstruction | 12.02 | | | | | | | | | |
| 0 | 08381 Sectional Overhead Doors | Garage Doors | 3.02 | | | | | | | | | |
| | 08411 Aluminum Framed Entrances | | 0 | New Item | No | 4 sys. | | | \$80,000 | | | Replace four entrance door assemblies with aluminum framed systems, including the interior door system at each location. |
| Division 8 - TOTALS | | | | | | \$248,500 | | | | | | |
| DIVISION 9 - Finishes | | | 0 | 0 | | | | | | | | |
| 0 | 09051 Resilient Floor Tile | Floor Finishes | 5.01 | 15% | 4430 SF | | | | | | \$44,000 | 13 separate areas. Carpet encasement existing tile in many areas / Testing may be required |
| 0 | 09400 Terrazzo Flooring | | 0 | 0 | | | | | | | | |
| 0 | 09680 Carpet | | 0 | 5.01 | 235 SF | | \$1,600 | | | | | Carpet Replacements |
| 0 | 08220 Portland Cement Plaster | Wall Finishes (on Masonry) | 5.02 | No | 4 SF | | | | \$300 | | | Repair plaster on existing wall |
| 0 | 09910 Paint | | 0 | 0 | | | | | | | | |
| | (Included Above) | Exterior Walls | 3.01 | | | | | | | | | |



CIP 2020-2024 Facilities

Police Headquarters

PD - Building Management System



1180 STRATFORD ROAD
STRATFORD, CT 06615
203.334.3419
203.333.3934 FAX
WWW.MAINHVAC.COM

Pub Fac. #9

July 10, 2019

Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Attn: Allen White

Re: Library control upgrade

Pursuant to our conversation regarding upgrade of the control system located at the **Library**, We are pleased to submit the following proposal and scope of work:

- **Provide engineering, web server, graphics, programming, wiring and wiring diagrams for the site.**
- **Provide and install controls for RTU 1, AH1, and Boiler**
- **Start and test all units.**

The price for the above work is: \$30,000.00

GUARANTEE

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delay beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance. If there is any default on payments, the signor agrees to pay all collection fees, court costs and lawyer fees and 1-1/2% per month interest, on the unpaid balance, not to exceed 18%. Such default will result in cancellation of all Warranties and Guaranteed work on any and all equipment.

Note: We may withdraw this proposal if not accepted within 30 days.

In hopes that you find this proposal acceptable, please sign below and return back via email jleslie@mainhvac.com or fax 203-683-1429 so that we may order the necessary items and schedule your work. If you have any questions, please feel free to contact me at 203-334-3419, extension 1416. I look forward to hearing from you.

Jim Leslie

7-10-19

Jim Leslie
Service Manager

Date

Accepted by (Customer)

Date

PD - Bathroom Renovation

CIP 2020- 2024 Facilities

Senior Center

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Senior Center

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Replace HVAC System in Multi-Purpose Room - The current system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations.

2nd Floor Kitchen renovation - The current 2nd floor kitchen is outdated and does not meet the needs of our residents. The goal is to bring the kitchen up to health and safety standards, and to create a more relaxed comfortable eating experience for our senior community.

Elevator modernization - current elevator is outdated and in constant need of repairs. Modernization is required in order to improve elevator efficiency, reliability and public safety

ADA ramp and door opener - Curb ramps are a critical element in allowing people with disabilities or our senior citizens to have full and complete access to the public right of way. This new ADA ramp and door opener will allow our residents to safely navigate and access our Sr. Center facilities

Parking lots paving - The current parking lot shows signs of damage; in addition, the parking lot does not sufficiently meet the current needs of the staff and residents parking at the Sr. Center. There is also a proposal to expand the parking lot and replace the bocce court. There is lack of parking for our residents and staff.

Replace Windows at Social Services - windows are outdated and show evidence of deterioration due to age and weather elements. Replacing these windows with energy-efficient ones can reduce heating and cooling costs by reducing the loss of heating and cooling

Will this project necessitate staffing increases?
No

What is the general plan and timeline for completion?
Estimated 2020 -2023

Are there any outside funding sources, e.g., grants?

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|--|-----------------------|-----------|-----------|---------|---------|------------|-------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| Sr. Center design & community approval efforts | 950,000 | | | | | 950,000 | no quote |
| Sr. Center construction | | 6,500,000 | 6,500,000 | | | 13,000,000 | no quote |
| Replace A/C in multi-purpose room | | 50,000 | | | | 50,000 | Pub Fac# 11 |
| Renovate 2nd floor kitchen | | 250,000 | | | | 250,000 | Pub Fac# 12 |
| Elevator modernization and upgrades (2) | | 200,000 | 200,000 | | | 400,000 | Pub Fac# 13 |
| Install handicap ramps and ADA door opener | | 33,000 | | | | 33,000 | Pub Fac# 14 |
| New Parking lot - paving | | 170,000 | | | | 170,000 | Pub Fac# 15 |
| Existing Parking lot - paving | | 370,000 | | | | 370,000 | Pub Fac# 16 |
| Replace windows at Social Services | | 55,000 | | | | 55,000 | Pub Fac# 17 |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

Sr. Center HVAC



MECHANICAL
HEATING, PLUMBING & A/C

(203) 268-9223

P.O. Box 294
Monroe, CT 06468
203-268-9223 FAX 203-452-8853

Pub. Fac. # 11

July 8, 2019

Town of Trumbull
5866 Main St
Trumbull, CT 06611

Re: Senior Center HVAC Replacement Revised

Thank you for the opportunity of quoting you on the replacement of the existing 10 ton HVAC system for the Trumbull Senior Center. All work will be performed with a high degree of craftsmanship and in compliance with all regulations and state and local codes.

A & B Mechanical, LLC will supply and install the following scope of work:

HVAC Scope of Work

- 1) Demo existing 10 ton Carrier system –Air Handler in closet upstairs (leave condenser in basement)
- 2) F&I one (1) Trane 10 ton Air Handler – disassemble and reassembly of AHU in Closet
- 3) F&I one (1) Trane 10 ton Outdoor Condenser
- 4) F&I Insulated Refrigeration & Condensate Piping
- 5) F&I New 3 phase wiring for Condenser
- 6) Thermostat & Wiring
- 7) Start & Test System
- 8) Permit
- 9) One Year Warranty

The above work can be done for the sum of:
Forty-One Thousand Nine Hundred Dollars (\$41,900.00) No Tax

Exclusions

1. New Electrical Panel
2. New Electrical services
3. Concrete Cutting, Excavation and Backfilling
4. Roof Cutting
5. Cutting, Patching, Painting
6. Overtime and Off Hours
7. Items Other than Listed Above

Guarantee: all labor, and material supplied by A & B Mechanical, LLC will carry a one (1) year guarantee from the date on installation against defects for both workmanship and material.

If you have any questions with our work please do not hesitate to call.

Thank you for the opportunity of working with you,

Arnie Jones Jr
A & B Mechanical, LLC

Terms and Conditions

A & B Mechanical, LLC is a SBE and Woman-Owned Business

Fax: (203) 452-8853

E-Mail: mailbox@abmechanicalllc.com

Web: www.abmechanicalllc.com

CT Licenses

S1:301170

P1:282005

SM1:3717

F1:11384

MEC:1168

Town of Trumbull Senior Center

Pub. Fac. # 11

Projects & Installations

1. Services provided under this agreement will be performed during normal working hours.
2. The guarantees and services provided under the scope of this agreement are conditioned upon customer properly operating and maintaining systems / equipment. Customer will do so according to industry accepted practices and in consideration of A&B Mechanical LLC, hereafter A&BM, and recommendations.
3. Customer will provide and permit reasonable and safe means of access to all equipment. A&BM will be allowed to start and stop equipment as necessary to perform its services.
4. Customer agrees to pay invoices within thirty (30) days of receipt. A&BM reserves the right to cancel this and / or stop work under this agreement without notice, should payment become forty-five (45) days or more delinquent.
5. At its prevailing rates or at negotiated lump sum prices, A&BM will perform work not covered by this Agreement. This shall include responding to abnormal conditions for system(s) and equipment not covered by this Agreement, changes in scope of work and/or undeclared or hidden conditions. Repairs or replacements necessitated by reason of customer negligence or misuse are not included.
6. In the unlikely event of failure to perform its obligations. A&BM's liability is limited to repair or replacement at its option and such shall be customer's sole remedy. Under no circumstances will A&BM be responsible for loss of use, loss of profits, increased operating or maintenance expense, claims of customer's tenants or clients, or any special, indirect or consequential damages.
7. The Agreement does not include responsibility for system design deficiencies, such as, but not limited to poor air distribution, water flow imbalances, etc. It does not include responsibility for system, equipment and component obsolescence, electrical failures, and equipment beyond its serviceable life.
8. A&BM will not be liable for delays or failure to obligate due to fire, flood, strike lockout, freezing, and unavailability of material, riot, acts of God, or any cause beyond reasonable control.
9. Work necessitated by present or future requirements by government or insurance laws and or requests is not included.
10. Only A&BM personnel or agent are authorized to perform the work included in the scope of this Agreement. A&BM may, at its option, cancel this Agreement should non-authorized individuals perform such work.
11. In the event either party must commence a legal action in order to enforce any rights under this contract, the successful party shall be entitled to all court costs and reasonable attorney's fees as determined by the court for prosecuting and defending the claim, as the case may be. Additionally, should it become necessary for A&BM to turn the account over to a collection agency, A&BM shall be entitled to all reasonable collection costs.
12. In addition to the prices quoted, customer shall be responsible for all taxes applicable to the services and / or material provided here under.
13. We guarantee all prices quoted in this agreement shall remain firm for a period of thirty (30) days from the date shown on page one.

Acceptance: _____
(Signature) (Date)

A & B Mechanical, LLC is a SBE and Woman-Owned Business

Fax: (203) 452-8853 E-Mail: mailbox@abmechanicalllc.com Web: www.abmechanicalllc.com

CT Licenses S1:301170 P1:282005 SM1:3717 F1:11384 MEC: 1168

Sr. Center Kitchen

December 6, 2019

Pub Fac # 12

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

Dear Mr. White:

Per your request, we are presenting this proposal for architectural / engineering fees as well as construction budgets for the following projects:

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Roof Replacement

Construction Estimate: \$45,000 A/E Fee: \$12,000

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Transfer Station Building

New Emergency Generator

Construction Estimate: \$140,000 A/E Fee: \$14,000

Concrete Floor Slab Repairs

Construction Estimate: \$26,000 A/E Fee: \$10,000

Roof Replacement

Construction Estimate: \$120,000 A/E Fee: \$18,000

New Pre-Fabricated Salt Shed

Construction Estimate: \$30,000 A/E Fee: \$0

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms

Construction Estimate: \$80,000 A/E Fee: \$15,000

Handicap accessible Improvements to (2) toilet rooms

Construction Estimate: \$140,000 A/E Fee: \$24,000

Council Chambers – Paint walls & Refinish wood

Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

Construction Estimate: \$3,000 A/E Fee: \$0



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851

t 203.956.5460

www.antinozzi.com

Senior Center Building

Replace Windows at Social Services Dept.
Construction Estimate: \$45,000 A/E Fee: \$10,000

Renovations to 2nd floor kitchen
Construction Estimate: \$220,000 A/E Fee: \$28,000

Elevator Modernization – (1) elevator
Construction Estimate: \$180,000 A/E Fee: \$20,000

Total = \$ 248,000

Public Works Buildings

Maintenance Garage – exterior painting
Construction Estimate: \$25,000 A/E Fee: \$0

Plow Trucks Garage – exterior painting
Construction Estimate: \$25,000 A/E Fee: \$0

Thank you for the opportunity to provide you with these construction budgets and fees. Please call me if you have any questions. We look forward to working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.



Paul A. Lisi, AIA
Principal / Project Manager

Sr. Center

Elevators (2)

December 6, 2019

Pub Fac # 13

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

Dear Mr. White:

Per your request, we are presenting this proposal for architectural / engineering fees as well as construction budgets for the following projects:

Helen Plumb Building:

Window Replacements

Construction Estimate: \$75,000 A/E Fee: \$14,000

Roof Replacement

Construction Estimate: \$45,000 A/E Fee: \$12,000

Front Door Replacement

Construction Estimate: \$5,000 A/E Fee: \$0

Transfer Station Building

New Emergency Generator

Construction Estimate: \$140,000 A/E Fee: \$14,000

Concrete Floor Slab Repairs

Construction Estimate: \$26,000 A/E Fee: \$10,000

Roof Replacement

Construction Estimate: \$120,000 A/E Fee: \$18,000

New Pre-Fabricated Salt Shed

Construction Estimate: \$30,000 A/E Fee: \$0

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms

Construction Estimate: \$80,000 A/E Fee: \$15,000

Handicap accessible improvements to (2) toilet rooms

Construction Estimate: \$140,000 A/E Fee: \$24,000

Council Chambers – Paint walls & Refinish wood

Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

Construction Estimate: \$3,000 A/E Fee: \$0



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851

t 203.956.5460

www.antinozzi.com

Mr. Allen E. White
December 6, 2019
Page 2 of 2

Pub Fac # 13

Senior Center Building

Replace Windows at Social Services Dept.

Construction Estimate: \$45,000 A/E Fee: \$10,000

Renovations to 2nd floor kitchen

Construction Estimate: \$220,000 A/E Fee: \$28,000

Elevator Modernization – (1) elevator

Construction Estimate: \$180,000 A/E Fee: \$20,000

Total = \$200,000 each

Public Works Buildings

Maintenance Garage – exterior painting

Construction Estimate: \$25,000 A/E Fee: \$0

Plow Trucks Garage – exterior painting

Construction Estimate: \$25,000 A/E Fee: \$0

Thank you for the opportunity to provide you with these construction budgets and fees. Please call me if you have any questions. We look forward to working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.



Paul A. Lisi, AIA
Principal / Project Manager

Sr. Center
ADA ramp and door opener

Allen White

From: Gregory M Raucci <gmraucci@bismarkconstruction.com>
Sent: Wednesday, July 31, 2019 8:02 AM
To: Allen White

Allen,

We are providing our estimated costs to install handicap ramps at the Senior center.

Front entrance \$28,000 dollars
Side entrance. \$21,000 dollars

A large portion of the cost on each is the handrails.

The side entrance might have a savings if we build up a portion of the grade to the entrance. In my opinion the side entrance has the easiest solution



Gregory M. Raucci |AIA President

Bismark Construction
Office: [203.876.8331](tel:203.876.8331)
gmraucci@bismarkconstruction.com
www.bismarkconstruction.com

STRATHMOOR ELECTRIC, INC.

1261 STRATFORD AVENUE
STRATFORD, CONNECTICUT 06615-6324
PHONE (203) 377-4261 FAX (203) 386-1388
CONNECTICUT LICENSE E-1 #196589
WESTCHESTER COUNTY LICENSE #1673

Proposal

July 30, 2019

Town of Trumbull
366 Church Hill Road
Trumbull, CT 06611

Re: Senior Center

We are pleased to submit our proposal for electrical work to include the following:

Handicap Door Opener

*Furnish and install the following:

- 1 ADA door opener
- 2 ADA handicap door buttons
 - One button mounted on outside post
 - One button mounted on inside wall
- 1 120 volt power

| | |
|-------------------|-------------------|
| TOTAL COST | \$5,550.00 |
|-------------------|-------------------|

WE PROPOSE to furnish labor and material – complete with the above specifications, for the sum of Five Thousand Five Hundred-Fifty and 00/100 Dollars

Payment to be made as follows: upon completion of work

ACCEPTED. The above prices, specifications, and conditions are satisfactory and hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Respectfully submitted,
STRATHMOOR ELECTRIC, INC.



Date of Acceptance _____

By _____

Michael Liscinsky

**Sr. Center
Parking Lot Paving**

Sr. Center Windows

December 6, 2019

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

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Council Chambers – Paint walls & Refinish wood

Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

Construction Estimate: \$3,000 A/E Fee: \$0



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Mr. Allen E. White
December 6, 2019
Page 2 of 2

Senior Center Building

Replace Windows at Social Services Dept.
Construction Estimate: \$45,000 A/E Fee: \$10,000

Total = \$ 55,000

Renovations to 2nd floor kitchen
Construction Estimate: \$220,000 A/E Fee: \$28,000

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Construction Estimate: \$180,000 A/E Fee: \$20,000

Public Works Buildings

Maintenance Garage – exterior painting
Construction Estimate: \$25,000 A/E Fee: \$0

Plow Trucks Garage – exterior painting
Construction Estimate: \$25,000 A/E Fee: \$0

Thank you for the opportunity to provide you with these construction budgets and fees. Please call me if you have any questions. We look forward to working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.



Paul A. Lisi, AIA
Principal / Project Manager

CIP 2020- 2024
Public Facilities

PW Yard

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Public Works Yard

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Construction - Town Yard Garage maintenance/replacement/culvert - The purpose of this project is to install a concrete culvert behind the highway garage. This will allow for the expansion of the highway garage and greater truck maneuvering around the existing highway facility.

Structural Improvements to plow garage and bay door replacement - This garage is used to store plows. The current layout does not allow for plow trucks to be moved without first re-arranging trucks already parked inside the bay. Additionally, the plows are tightly packed into the bay making it very difficult for drivers to park and pull in and out of the garage. The current gate too narrow. The goal is to widen the opening and replace the gate; plows will have more room to move about and pull in and out of the garage without any obstructions. This will make the process safer and streamline the process. Costs estimated based on discussions with PW Director and industry prices for construction and materials.

Siding and stairwell replacement at building #6 - the siding and stairs have major structural issues and advanced rot damage that has spread throughout the building's exterior that requires replacement. The stairwell does not conform to current fire and building

What existing facilities or conditions will be affected by the project? How will this project improve these?

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2020 -2024

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|--|-----------------------|---------|---------|---------|---------|---------|-------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| Town Yard Garage maintenance/replacement/culvert | 450,000 | | | | | 450,000 | Pub Fac# 18 |
| Structural improvements to plow garage #2 and bay door replacement | 175,000 | | | | | 175,000 | no estimate |
| HWY Siding replacement building #6 | 82,000 | | | | | 82,000 | Pub Fac# 19 |
| HWY stairwell replacement building #6 | 80,000 | | | | | 80,000 | Pub Fac# 20 |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

PW Yard Culvert



Engineers | Environmental Specialists

**Preliminary Opinion of Probable Cost
for the Construction of**

| | | | |
|-------------|---------------------|----|------------|
| Prep'd Date | <u>02/22/18</u> | By | <u>TAS</u> |
| Ch'kd Date | <u>02/22/18</u> | By | <u>AJM</u> |
| Re'vd Date | <u>07/10/19</u> | By | <u>TS</u> |
| Town of | <u>Trumbull, CT</u> | | |
| Funds | _____ | | |
| Town No. | _____ | | |
| Project No. | <u>29-0196-102</u> | | |
| Sheet No. | <u>1</u> | of | <u>1</u> |

Project Trumbull DPW Highway Culvert
Description Culvert Replacement, Trumbull, CT

| No. | Item | Unit | Quantity | Price | Amount |
|----------|---|------|----------|----------|------------------|
| 0202001 | Earth Excavation | CY | 300 | \$40 | \$12,000 |
| 0202101 | Rock Excavation | CY | 40 | \$200 | \$8,000 |
| | Removal of Existing Culverts | LS | 1 | \$10,000 | \$10,000 |
| | Water Handling System | LS | 1 | \$25,000 | \$25,000 |
| | Soil Erosion Control | LS | 1 | \$15,000 | \$15,000 |
| 0212001 | Subbase Material | CY | 130 | \$30 | \$3,900 |
| 0406170 | HMA, Class 1 | Ton | 300 | \$100 | \$30,000 |
| 0406171 | HMA, Class 2 | Ton | 300 | \$100 | \$30,000 |
| 0406236 | Material for Tack Coat | Gal | 100 | \$10 | \$1,000 |
| | 2.5' x 5' RC Box Culvert | LF | 223 | \$600 | \$133,800 |
| | Precast Wing Walls | Each | 2 | \$20,000 | \$40,000 |
| 0507001 | Type "C-L" Catch Basin | Each | 1 | \$3,500 | \$3,500 |
| 0507781 | Reset Manhole | Each | 1 | \$500 | \$500 |
| 0651746 | 15" PVC - Storm Drainage | LF | 25 | \$75 | \$1,875 |
| 0703001 | Rip-Rap Slope | CY | 30 | \$75 | \$2,250 |
| 0811002A | Bituminous Concrete Curb | LF | 250 | \$5 | \$1,250 |
| | Subtotal | | | | \$318,075 |
| 0201001 | Clearing and Grubbing (3%) | LS | 1 | \$9,542 | \$9,542 |
| 0971001 | Maintenance and Protection of Traffic | LS | 1 | \$5,000 | \$5,000 |
| | Subtotal | | | | 332,617 |
| 20% | Contingencies | | | | 66,523 |
| | CONSTRUCTION SUBTOTAL | | | | 399,141 |
| 5.0% | Engineering Design, Construction Docs and Bidding | | | | 19,957 |
| 1.5% | Construction Administration | | | | 5,987 |
| 6.0% | Construction Observation | | | | 23,948 |
| | PROJECT TOTAL | | | | 449,100 |

449,100 ✖

PW Yard

Building # 6

December 1, 2017

Pub Fac # 19 and 20
Building #6 DPW

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets & A/E Budgets
for first quarter 2018 Projects

Dear Mr. White:

Per your request, we are presenting construction cost estimates and architectural / engineering fees for the following projects:

Helen Plumb Building – Window Replacements & Siding Repairs

Construction Estimate: \$76,000 + A/E Fee: \$14,800

Transfer Station – Concrete Slab Repairs

Construction Estimate: \$22,000 + A/E Fee: \$9,400

Transfer Station – New Generator

Construction Estimate: \$125,000 + A/E Fee: \$13,800

DPW Building #6 – Siding Replacement

Construction Estimate: \$68,000 + A/E Fee: \$13,200

DPW Building #6 – New Exit Stair

Construction Estimate: \$62,000 + A/E Fee: \$17,500

DPW Garage – Shingle Roof Replacement

Construction Estimate: \$48,000 + A/E Fee: \$10,500

Senior Center – Elevator Modernization

Construction Estimate: \$215,000 + A/E Fee: \$18,800

Thank you for the opportunity to provide you with these budg
Please call me if you have any questions. We look forward to
working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.

Paul A. Lisi, AIA
Principal / Project Manager



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3007

301 Merritt 7
Norwalk, Connecticut 06851

t 203.956.5468

www.antinozzi.com

Total = \$81,200

Total = \$79,500

897K

232K

140K

181K

179K

159K

234K

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Police Headquarters

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Building Maintenance System (BMS) - A BMS is the automatic centralized control of a building's HVAC system. Installing this type of automated centralized control system will result in improved occupant comfort, increased efficiency operation of HVAC system and reduction in energy consumption.

Bathroom renovations - the current restrooms are dated and showing signs of wear and tear. The building requires a restroom update to meet ADA standards and bring them up to building code.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated construction 2021 - 2023

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---|-----------------------|---------|---------|---------|---------|--------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Connect HVAC system to BMS (Building Management System) | | 30,000 | | | | 30,000 |
| Misc. - Bathroom Renovations | - | | 70,000 | | | 70,000 |
| | | | | | | - |

Pub Fac# 9

Pub Fac# 10

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

CIP 2020- 2024
Public Facilities

Helen Plumb Building

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Hellen Plumb Building

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

HVAC system replacement- Current HVAC system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations. Cost is based on . Replacement to be done in partnership with UI.

Window replacement - windows are outdated and show evidence of deterioration due to age and weather elements. Replacing these windows with energy-efficient ones can reduce heating and cooling costs. Some exterior areas of the building structural issues and advanced rot damage that has spread throughout the building's exterior that requires replacement.

Roof replacement - the building's roof shows signs of damage due to old age and weather. Replacement is needed in order to prevent any possible damage to property.

What existing facilities or conditions will be affected by the project? How will this project improve these?

HVAC system replacement- HVAC controls & system need to be upgraded in order to operate the system properly and more efficiently. Cost based on Main Enterprises quotation. Replacement to be done in partnership with UI.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

2020 - 2021

Are there any outside funding sources, e.g., grants?

No

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|-------------------------|-----------------------|---------|---------|---------|---------|--------|-------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| HVAC system replacement | 80,000 | | | | | 80,000 | Pub Fac# 23 |
| Window replacement | | 90,000 | | | | 90,000 | Pub Fac# 24 |
| Roof replacement | | | 60,000 | | | 60,000 | Pub Fac# 25 |
| | | | | | | - | |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

HP - HVAC System



1180 STRATFORD ROAD
STRATFORD CT 0661
203.334.3419
203 333 3934 FAX
WWW.MAINHVAC.COM

Pub Fac # 23

June 2, 2017

Town of Trumbull
5866 Main St
Trumbull, CT

Re: The Helen Plumb Building
HVAC & Light Budget

Attn: Allen White
Phone: 1-203-673-5994

BUDGET PROPOSAL

We are pleased to submit the following proposal to perform the HVAC & Electrical work as described in the scope of work as listed below:

HVAC Scope:

- (2) Gas Fired Furnaces- 95% Efficient
- (2) A/C Condensing Units
- (2) A/C Evaporator Coils
- (1) Wall Hung Water Heater
- (2) Condensate Pumps
- New Refrigeration line sets
- New PVC Flue Piping
- Gas Piping – disconnect & reconnect
- Condensate Piping – disconnect & reconnect
- Duct Work – disconnect & reconnect
- Electrical Power Wiring – disconnect & reconnect
- Comfort air balancing
- Unity Controls
- Demolition & removal of existing HVAC equipment
- Existing duct work to be re-used
- Start-up and testing
- 12 Month Warranty from date of installation
- All work performed during normal working hours

Electrical Scope:

- (12) 2' X 4' LED Ceiling Lights
- (6) 12" Round LED Ceiling Lights
- (8) Wall Sconce Lights
- (4) Chandeliers
- All work performed during normal working hours

Total Budget:

\$72,000.00Tax Not Included**

PLM: 0281335-P1
HTG: 390177-51
MEC: 001128

Excludes:

- Air quality control
- Allowances
- Architectural access doors
- Bonds
- Ceiling removal and installation
- Cleaning or servicing of existing ductwork or equipment
- Concrete housekeeping pads
- Concrete saw cutting, breaking, and patching
- Cutting, patching, and flashing (ceilings, walls, roof deck, etc...)
- Duct smoke detectors (furnished and wired by others)
- Dumpsters
- Excavation and backfilling including bedding materials
- Fire protection
- Furring out of walls and / or ceilings
- Hazardous material remediation including Lead RRP or asbestos
- Painting (including duct, steelwork, and or piping)
- Permit fees
- Premium hours
- Prevailing wages
- Roof penetrations and flashings
- Structural Steel and / or dunnage
- Taxes
- Temporary Services (including air conditioning, heating, ventilation and or dust control)
- Utility company charges, rebates and incentives
- Weather proofing (including vents thru roof or walls)

If you have any questions, please feel free to contact me at 203-334-3419, ext. 1415 or email EWolf@mainhvac.com
I look forward to hearing from you.

Edward Wolf

President

Direct: 203-334-3419 Ext 1415

Cell: 203-650-9008

HP - Windows & Roof replacement

December 6, 2019

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

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Window Replacements

Construction Estimate: \$75,000 A/E Fee: \$14,000

24 Total = \$ 89,000

Roof Replacement

Construction Estimate: \$45,000 A/E Fee: \$12,000

28 Total = \$ 57,000

Front Door Replacement

Construction Estimate: \$5,000 A/E Fee: \$0

Transfer Station Building

New Emergency Generator

Construction Estimate: \$140,000 A/E Fee: \$14,000

Concrete Floor Slab Repairs

Construction Estimate: \$26,000 A/E Fee: \$10,000

Roof Replacement

Construction Estimate: \$120,000 A/E Fee: \$18,000

New Pre-Fabricated Salt Shed

Construction Estimate: \$30,000 A/E Fee: \$0

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms

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Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

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CIP 2020-2024
Public Facilities

EMS Building

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - EMS Building

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Site Construction reconfiguration and expansion - the proposed EMS facility expansion will be designed and operated so as to maintain and promote public health, safety, and general welfare. EMS provides emergency services to those in need. In recent years, the Town has recognized the need for additional and modernized space in order to serve the needs of the Town.

RTU Rooftop Unit Replacement -Replacement of 3 packaged 3-ton units. Current HVAC system is becoming aged and requires replacement to provide for continued safe, comfortable and efficient operations. Cost is based on Antinozzi Associates building inspection report.

What existing facilities or conditions will be affected by the project? How will this project improve these?

RTU replacement at EMS Building- system needs to be upgraded in order to operate the system properly and more efficiently.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2022 - 2023

Are there any outside funding sources, e.g., grants?

Possible UI Partnership for RTU Rooftop units

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|--|-----------------------|-----------|---------|---------|---------|-----------|---------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| Site Design - Reconfiguration/Expansion | 50,000 | | | | | 50,000 | estimate only |
| Site Construction - Reconfiguration/Expansion | | 2,000,000 | | | | 2,000,000 | Pub Fac# 21 |
| Mechanical - RTU Rooftop Unit Replacement | | | 54,000 | | | 54,000 | Pub Fac# 22 |
| | | | | | | - | |
| | | | | | | - | |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

EMS

**Building Reconfiguration/
Expansion**



DECARLO
& DOLL, INC.

Pub. Fac. # 21

ARCHITECTS
ENGINEERS
SURVEYORS
PLANNERS
CONSTRUCTION
MANAGERS

September 23, 2016

Mr. John Marsilio
Public Works Director
Trumbull Public Works Department
366 Church Hill Street
Trumbull, CT 06611

RE: Emergency Medical Services Building - Preliminary Project Cost Estimate

Dear Mr. Marsilio,

Per your request, attached are Preliminary Project Costs Budget Estimate for the Proposed EMS Building Renovation, Addition and Site Improvements.

To date, we have not performed Feasibility Studies or Programming, therefore, the cost estimates attached are ballpark numbers, strictly for the Town's Preliminary Budget purposes.

Our cost assumptions are based on the following:

1. The Existing Facility is 5000 SF (Fact)
2. Existing Facility would require 67% or 3,300 SF of Upgrades and Renovations.
4. New addition would be a separate and detached One Story Building on same site.
This New Addition would be limited to 2500 SF.
5. Other Site Costs and Professional Fees are also Preliminary Budget Estimates based on similar projects.

Please contact us at your earliest convenience should you have any questions. We look forward to continuing our professional relationship with you and the Town of Trumbull.

Very truly yours,
DeCARLO & DOLL, Inc.

Emanuel Machado
Sr. Project Manager

Cc: Ron Nault
Allen White
File



DECARLO
& DOLL, INC.

Pub. Fac. # 21

Emergency Medical Services Preliminary Project Cost Budget Estimate

| | | |
|-------|--|-----------------------|
| 1.0 | SITE IMPROVEMENTS..... | \$125,000.00 |
| 2.0 | UTILITIES / STORM DRAINAGE..... | \$50,000.00 |
| 3.0 | RENOVATIONS at EXISTING FACILITY (3,300 SF – Does not include existing garage area) | \$495,000.00 |
| 4.0 | NEW 2,500 sf ADDITION (of similar Construction Type)..... | \$625,000.00 |
| 5.0 | FURNITURE, FURNISHINGS and EQUIPMENT..... | \$80,000.00 |
| 6.0 | DATA, TELCOM, SPECIALIZED COMMUNICATIONS EQUIPT..... | \$70,000.00 |
| 7.0 | PROFESSIONAL FEES / OTHER OWNER COSTS..... | \$175,000.00 |
| <hr/> | | |
| | ESTIMATED PROJECT SUBTOTAL..... | \$1,620,000.00 |
| 8.0 | CONTINGENCIES (10% of SUBTOTAL ABOVE)..... | \$162,000.00 |
| | ESTIMATED PROJECT COSTS TOTAL..... | \$1,782,000.00 |

DECARLO
& DOLL, INC.

Trumbull Emergency Medical Service

Request for Projects

Project Requested: Renovation/Expansion of EMS Building

This project is currently on the Five-Year Plan for 2019. Preliminary drawings have been done and Engineering has done site work.

Bay Space

EMS seeks to find a way to increase building size to allow for eight vehicles to be parked inside the building. The building has three standard ten foot bays and an oversized bay that 1.5 vehicles can park in at one time. During the cold months, one paramedic fly car is parked in the back bay next to an ambulance. Getting the vehicle in this location is not only difficult but it provides limited space to get in and around the vehicles in the garage. The second fly car is parked outside at the back of the building with a boat heater and shore line. Currently, there are seven emergency response vehicles. This would require seven bays. In addition to the vehicles, the all-terrain John Deere Gator needs to be secured inside. The eighth bay would be used to house the gator on a trailer so it can be quickly deployed, if needed, to respond to the trail system in town.

Interior Needs

Larger crew quarters are needed as there are 3-4 crews on shift on a regular basis (6-8 staff minimum not including volunteers). A larger kitchen facility would be advantageous, especially for emergency preparedness and in being able to be prepare meals. Currently there is only a four foot galley area that does not even have sufficient space to prepare a sandwich or a meal. Crews work 12-24 hour shifts so it is common to eat two to three meals while on shift.

A private meeting/conference room would also be highly beneficial to the department. This room could potentially act as a report writing room for EMS providers to complete their patient care reports after each call (this would be better served as a separate room but if space is limited, perhaps can be used as a dual purpose). A large community room capable of seating approximately 30 people behind desks is needed. We teach many classes each month in CPR, First Aid, EMT, EMR and continuing education classes in this room.

The potential for using the EMS building as the main EOC has been discussed with Emergency Management and IT. This building has a generator and would have the capacity for multiple disciplines to be in the same area without over crowding. With potential multiple meeting areas, the EOC would have minimal interference with daily EMS operations. An enlarged kitchen area would allow for the serving of meals to all participants and emergency service staff on duty at that time. The Police Department Building would then become the secondary EOC.

Currently there is one office (it was subdivided into two rooms). The EMS department would like to see three/four offices be constructed, if possible: one office for the Executive Assistant, one for the Chief and two for the on duty supervisors/crew.

Bunk rooms currently sleep three men and three women. Exploring a locker room for crew members to get changed, lock up belongings, shower, if necessary, after calls where they may be exposed to blood, diseases, etc. is a high priority. Currently, the building staff leaves their belongings on a table in the community room.

Other Space

The department requires a lot of storage for medical supplies and emergency preparedness supplies. A storage room for medical supplies would be necessary. A loft, perhaps in the bay area, could be used for over-flow supplies, spare tires, fleet supplies, linens and/or emergency preparedness supplies. A space with a decontamination shower, washer and dryer would be requested in the bays so crew members and/or equipment can be decontaminated, if necessary, prior to walking into the office section of the building. EMS launders many of their linens as well as equipment. This room can also be properly equipped to secure biohazard waste material when necessary.

Exterior Space

A parking lot for 12 cars during business hours is needed.

The department is open to all and any possibilities, including finding a location in close proximity to our current location in order to keep response times down, as we are now centrally located in town. When the current structure was built, the service responded to a small fraction of the calls dispatched today. Our call volume is expected to increase as our town expands and ages. We currently respond to over 4,300 calls each year. The director has been told when the current building was built EMS was responding to about 500 emergencies annually.

The biggest challenges to date are having

1. enough space to park emergency vehicles inside a building
2. space for crews to write reports and complete their documentation after each call
3. a private place to hold small meetings (supervisor meeting, staff reviews, call reviews)
4. increased storage space as the building is currently at maximum capacity
5. sufficient parking as staff have a difficult time finding a place to park during school hours. The parking lot is shared with the pre-school next door.
6. public and private areas of the building separate.

Renovation of the building would also solve the roof leaks into the building when it rains due to all the roof runoff directed to the back of the building into household gutters. This results in water completely covering the floor in the medical supply storage rooms and could compromise our radio transmitter located in that area. It also courses down the outside of the back of the building which has compromised the integrity of the concrete wall.

EMS RTU Rooftop Unit

Pub Fac # 22

| CSI / Spec # | CSI Format Names | Report Item Names | Previous Report # / New Item | Complete | Quantity | Totals By Division | Suggested 5 Year Capital Improvement Plan | | | | | Comments / Notes |
|--------------|-------------------------------------|---------------------------|------------------------------|----------|----------|--------------------|---|----------|----------|---------|---------|--|
| | | | | | | | 2010 - 11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | |
| 0 15408 | Domestic Water Supply | Water Distribution System | 7.01 | No | 1 | | | \$2,500 | | | | Back Flow preventer not installed |
| 0 15412 | Plumbing Fixtures | Plumbing Fixtures | 7.03 | No | 1 | | | \$1,500 | | | | Drinking fountain is aged and needs replacing |
| 0 0 0 | | | 0 0 | | | | | | | | | |
| 0 15405 | Domestic Water Heaters | Water Heaters | 7.04 | Yes | 1 | | | | | | | |
| 0 15512 | Boilers | Boiler / Furnace | 8.01 | No | 1 | | | | \$10,000 | | | Boiler was not replaced. Replace Boiler (However as an option for boiler replacement, Owner may want to discontinue boiler and current cooling only RTU use, and install a gas fired packaged RTU that can ventilate during the heating cycle) |
| 0 15181 | Hydronic Piping | Heating Systems Piping | 8.02 | No | 50 LF | | | | | | \$9,500 | 1) Replace hot water baseboard in classroom 2) Insulate hydronic piping in Boiler Room |
| 0 0 0 | | | 0 0 | | | | | | | | | |
| 0 15200 | Ductwork and Air Outlets | Ductwork | 8.04 | No | | | | \$4,000 | | | | Clean all exhaust ductwork / Clean Chimney of Soot / Clean dryer vent |
| 0 0 | (Included Above) | Ductwork Insulation | 8.04 | | | | | | | | | |
| 0 15768 | Unit Ventilators | Unit Ventilators | 8.05 | | | | | | | | | |
| 0 15766 | Cabinet Unit Heaters | Terminal Units | 8.07 | | | | | | | | | |
| 0 0 | Fin Tube Heating | | 0 New Item | | | | | | | | | |
| 0 15900 | HVAC Instrumentation & Control | Control Systems | 8.09 | No | | | | \$1,200 | | | | Install boiler controls to save operation cost and maximize efficiency |
| 0 0 0 | | | 0 0 | | | | | | | | | |
| 0 15407 | Heating Fuel Systems | Heating Fuel Systems | 8.10 | | | | | | | | | |
| 0 0 0 | | | 0 0 | | | | | | | | | |
| 0 15738 | Split System Air Conditioning Units | Air Conditioning Systems | 8.11 | No | 3 | | | | | | | Replace three existing packaged 3-ton units (assumed close to the end of it's useful life) |
| 0 15421 | Testing Adjusting & Balancing | Ventilation Systems | 8.03 | | | | | | | | | |
| 0 15500 | Air Handling and Treatment | Air Handling Systems | 8.06 | | | | | | | | | |
| 0 0 | (Included Above) | Humidity | 11.06 | | | | | | | | | |
| 0 0 | (Included Above) | Ventilation | 11.07 | | | | | | | | | |
| 0 0 | (Included Above) | Ventilation Systems | 8.03 | No | | | | | | | | A building ventilation system during the winter is non-existent. Proper ventilation is needed including in Garages. See "Boiler" line item for ventilation remedy |
| 0 0 | (Included Above) | Exhaust Systems | 8.08 | No | 1 | | | \$12,000 | | | | Replace rooftop exhaust units (includes providing proper toilet room & Kitchen exhaust) |



CIP 2020-2024
Public Facilities

Transfer Station

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Transfer Station

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Concrete Slab repair - the concrete slab and subfloor on the commercial side of the Transfer Station has small cracks, hairline fractures moderate in nature. The structure is structurally sound but needs repairs to avoid further damage and avoid full replacement costs.

Generator - This facility currently does not have a generator or sufficient backup power that would be necessary to keep the facility running in the event of a total power failure. The requested funds will be used to install a unit at the Transfer Station in order to avoid shut downs of this facility's operations.

Roof replacement - the building's roof shows signs of damage due to old age and weather. Replacement is needed in order to prevent any possible damage to property.

New pre-fabricated salt shed - currently this facility does not have a salt shed to store material used to treat driveways/roads/parking at the transfer station after snow storms in order maintain a safe environment for residents and employees. The new salt shed will maximize the life of salt stockpiles by offering a durable, environmentally conscious, cost effective storage solution.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Transfer Station road widening will increase driver safety by giving drivers more room to get around.

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2020 - 2023

Are there any outside funding sources, e.g., grants?

Costs will be split -- Trumbull approx. 60% and 40% TEAM

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL | |
|----------------------------|-----------------------|---------|---------|---------|---------|---------|-------------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | | |
| Concrete slab repair | 45,000 | | | | | 45,000 | Pub Fac# 26 |
| Transfer Station generator | 155,500 | | | | | 155,500 | Pub Fac# 27 |
| Roof replacement | | 140,000 | | | | 140,000 | Pub Fac# 28 |
| Pre-fabricated salt shed | 30,000 | | | | | 30,000 | Pub Fac# 29 |
| | | | | | | - | |

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)

Transfer Station Concrete Slab

December 1, 2017

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Pub Fac # 26
Transfer Station

Re: Construction Budgets & A/E Budgets
for first quarter 2018 Projects

Dear Mr. White:

Per your request, we are presenting construction cost estimates and architectural / engineering fees for the following projects:

Helen Plumb Building – Window Replacements & Siding Repairs

Construction Estimate: \$76,000 + A/E Fee: \$14,800

897K

Transfer Station – Concrete Slab Repairs

Construction Estimate: \$22,000 + A/E Fee: \$9,400

32K

Total = \$ 31,400

Transfer Station – New Generator

Construction Estimate: \$125,000 + A/E Fee: \$13,800

140K

DPW Building #6 – Siding Replacement

Construction Estimate: \$68,000 + A/E Fee: \$13,200

181K

DPW Building #6 – New Exit Stair

Construction Estimate: \$62,000 + A/E Fee: \$17,500

79K

DPW Garage – Shingle Roof Replacement

Construction Estimate: \$48,000 + A/E Fee: \$10,500

159K

Senior Center – Elevator Modernization

Construction Estimate: \$215,000 + A/E Fee: \$18,800

234K



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604

t 203.377.1300 f 203.378.3002

301 Merritt 7
Norwalk, Connecticut 06851

t 203.956.5468

www.antinozzi.com

Thank you for the opportunity to provide you with these. Please call me if you have any questions. We look forward to working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.

Paul A. Lisi, AIA
Principal / Project Manager

**Transfer Station
Generator, Roof and Salt
Shed**

December 6, 2019

Mr. Allen E. White
Director of Facilities
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Re: Construction Budgets and A/E Fees for
Town of Trumbull 2020 Capital Improvement Projects

Dear Mr. White:

Per your request, we are presenting this proposal for architectural / engineering fees as well as construction budgets for the following projects:

Helen Plumb Building:

Window Replacements

Construction Estimate: \$75,000 A/E Fee: \$14,000

Roof Replacement

Construction Estimate: \$45,000 A/E Fee: \$12,000

Front Door Replacement

Construction Estimate: \$5,000 A/E Fee: \$0

Transfer Station Building

New Emergency Generator

Construction Estimate: \$140,000 A/E Fee: \$14,000

27 = \$154,000

Concrete Floor Slab Repairs

Construction Estimate: \$26,000 A/E Fee: \$10,000

Roof Replacement

Construction Estimate: \$120,000 A/E Fee: \$18,000

28 = \$138,000

New Pre-Fabricated Salt Shed

Construction Estimate: \$30,000 A/E Fee: \$0

29 = \$30,000

Town Hall Building

Upgrade finishes and fixtures in (2) toilet rooms

Construction Estimate: \$80,000 A/E Fee: \$15,000

Handicap accessible improvements to (2) toilet rooms

Construction Estimate: \$140,000 A/E Fee: \$24,000

Council Chambers – Paint walls & Refinish wood

Construction Estimate: \$5,000 A/E Fee: \$0

Replace 200 Square Feet of concrete sidewalk

Construction Estimate: \$3,000 A/E Fee: \$0



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Mr. Allen E. White
December 6, 2019
Page 2 of 2

Senior Center Building

Replace Windows at Social Services Dept.

Construction Estimate: \$45,000 A/E Fee: \$10,000

Renovations to 2nd floor kitchen

Construction Estimate: \$220,000 A/E Fee: \$28,000

Elevator Modernization – (1) elevator

Construction Estimate: \$180,000 A/E Fee: \$20,000

Public Works Buildings

Maintenance Garage – exterior painting

Construction Estimate: \$25,000 A/E Fee: \$0

Plow Trucks Garage – exterior painting

Construction Estimate: \$25,000 A/E Fee: \$0

Thank you for the opportunity to provide you with these construction budgets and fees. Please call me if you have any questions. We look forward to working with you on these projects.

Sincerely,
ANTINOZZI ASSOCIATES, P.C.



Paul A. Lisi, AIA
Principal / Project Manager

**CIP 2020-2024
Public Facilities**

Townwide

Project :

Various Sidewalk Restoration
Parking Lots and Driveway

Date: 9/19/2019

Estimate By: WCM

Checked By:

| ITEM NO. | ITEM DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|------------------------------|--------------------|------|----------|------------|-----------------|
| | Excavation / | SY | 500 | \$5.00 | \$2,500 |
| | Subgrade | SY | 500 | \$2.00 | \$1,000 |
| | Concrete sidewalk | SF | 5,000 | \$12.00 | \$60,000 |
| | Topsoil | SY | 500 | \$2.00 | \$1,000 |
| | Turf Establishment | SY | 500 | \$10.00 | \$5,000 |
| UNIT PRICE SUBTOTAL = | | | | | \$69,500 |

ALLOWANCES

| | | | | | |
|-----------------------------|-----------|--|--|-----------|----------|
| Drainage | ALLOWANCE | | | \$ | - |
| | ALLOWANCE | | | | |
| ALLOWANCE SUBTOTAL = | | | | \$ | - |

UNIT PRICE + ALLOWANCE = \$ 69,500.00

LUMP SUM ITEMS

| | | | | | |
|----------------------------|--|--|--|-----------|----------|
| | | | | | |
| | | | | | |
| LUMP SUM SUBTOTAL = | | | | \$ | - |

SUBTOTAL -UNIT PRICE +ALLOWANCES+ LUMP SUM = \$ 69,500.00

CONTINGENCY AND INCIDENTALS

| | | |
|---|----|---------------------|
| Contingency & Incidents (15% x (Unit Price + Allowances + Lump Sum)) | \$ | 10,425.00 |
| TOTAL = | | \$ 79,925.00 |

ADD 5% ESCALATION PER YEAR - IF NOT COMPLETED IN 2020 = \$ 3,996.00

**TOWN OF TRUMBULL
REQUEST FOR PROJECTS**

as of 12/9/19

DEPARTMENT

Public Facilities - Townwide

Provide narrative to describe and justify the requested project and answer the following questions as applicable.

Townwide sidewalk surface conditions degrade over time to a point where tripping hazards exist or worsening running or cross slope conditions are making routes inaccessible, or dangerous to pedestrians. Sidewalk replacement and repairs are necessary and will cycle through the community, focusing on different neighborhoods over a number of years as repairs become necessary.

What existing facilities or conditions will be affected by the project? How will this project improve these?

Sidewalks townwide

Will this project necessitate staffing increases?

No

What is the general plan and timeline for completion?

Estimated 2020-2021

Are there any outside funding sources, e.g., grants?

| PROJECT DESCRIPTION | CALENDAR YEAR FUNDING | | | | | TOTAL |
|---------------------------|-----------------------|---------|---------|---------|---------|--------|
| | CY 2020 | CY 2021 | CY 2022 | CY 2023 | CY 2024 | |
| Townwide sidewalk repairs | 80,000 | | | | | 80,000 |
| | | | | | | - |
| | | | | | | - |
| | | | | | | - |

Pub Fac# 30

JUSTIFY NEED FOR CAPITAL OUTLAY (Attach relevant documentation for your request. Insufficiently documented requests WILL NOT be considered for the plan.)