

**WATERFORD UTILITY COMMISSION****REGULAR MEETING AGENDA – VIA ZOOM****DATE: Tuesday, February 16, 2021****TIME: 6:00 pm****PLACE: Municipal Complex – Via ZOOM****1000 Hartford Tpke., Waterford, CT**

Meeting ID: 822 6052 4285

One tap mobile

+13126266799,,82260524285# US (Chicago)

+16465588656,,82260524285# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

+1 301 715 8592 US (Washington DC)

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

+1 253 215 8782 US (Tacoma)

Meeting ID: 822 6052 4285

Find your local number: <https://us02web.zoom.us/j/kwZkJP9yH>**1. Citizens Session –****2. Secretary's Report –** Approval of January 26, 2021 Special Meeting minutes.**3. Accounts Adjustments –** As per list**4. Expenditures –** Approval of Bill List (Consideration of reporting criteria)**5. Old Business –** Reports and Updates

- Financials - WW Fund Revenues / Expenditures Report, and Collections
- Municipal Complex Rehab – Status Update
- Waterford/East Lyme/New London Wastewater Agreement & Wtfd/EL Sewer Agreement

**6. Unfinished Business -****7. New Business -**

- Designation of WUC Secretary
- Evergreen Pumping Station - Design 4<sup>th</sup> pump

**8. Executive Session (if necessary) –** Pending claim by New London regarding termination of Tri-town agreement and requirement for Waterford to seek alternate treatment solution.

DATE: TUESDAY, FEBRUARY 16, 2021

PLACE: 1000 HARTFORD TPKE., WATERFORD, CT

TIME: 6:00 PM

ZOOM REMOTE ACCESS ONLY

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**WATER – Veolia Report**

**9. Correspondence – As listed**

**10. Plans Review –**

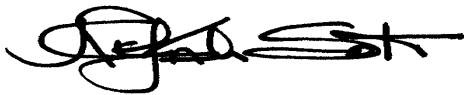
- 430 Mohegan Avenue Parkway, Waterford, CT
- 384 & 395 Willets Avenue, Waterford, CT

**11. Personnel – Update**

**12. Other –**

**13. Adjournment**

All requests for items to be considered by the Utility Commission must be received at least seven (7) days in advanced.

A handwritten signature in black ink, appearing to read 'Neftali Soto', with a stylized flourish at the end.

Neftali Soto, P.E. – Chief Engineer

## Waterford Utility Commission

|                         |
|-------------------------|
| <b>Transaction List</b> |
|-------------------------|

Sorted by Location No  
From 01/26/2021 through 02/11/2021

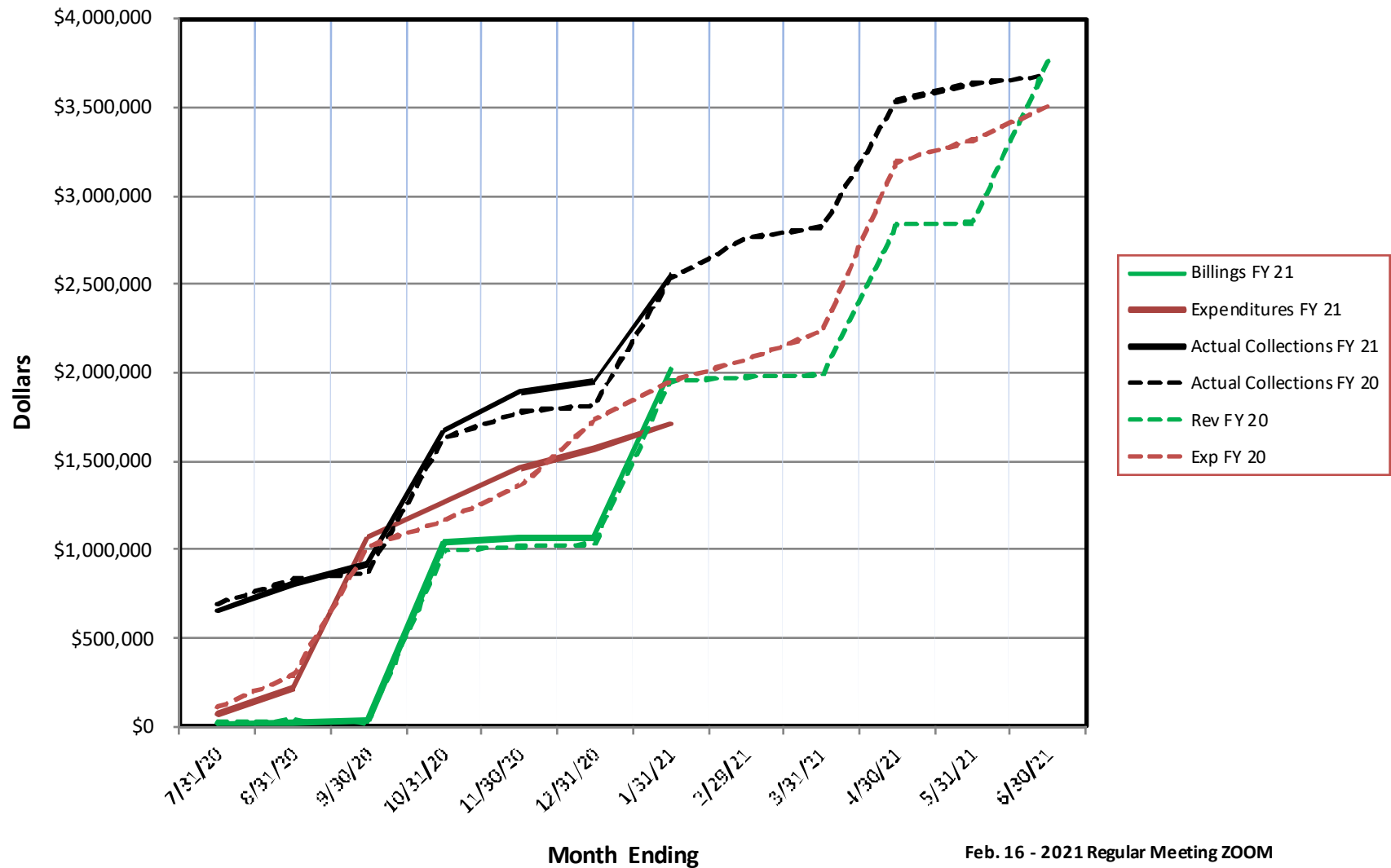
| Account No          | Location No | Customer Name | Trans. Date | Trans. Type | Reason             | Batch | Amount   |
|---------------------|-------------|---------------|-------------|-------------|--------------------|-------|----------|
| 06-0005824          | 0005824     |               | 02/02/2021  | Adjustment  | ON TIME            |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -6.80    |
|                     |             |               |             |             |                    |       | -6.80    |
| 06-0001625          | 0053900     |               | 02/02/2021  | Adjustment  | ON TIME            |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -6.17    |
|                     |             |               |             |             |                    |       | -6.17    |
| 06-0001980          | 0065000     |               | 02/02/2021  | Adjustment  | ON TIME            |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -2.00    |
|                     |             |               |             |             |                    |       | -2.00    |
| 06-0001633          | 0198900     |               | 01/27/2021  | Adjustment  | BURNED             |       |          |
|                     |             |               |             |             | SEWER USE          |       | -119.06  |
|                     |             |               |             |             |                    |       | -119.06  |
| 06-0004412          | 0221401     |               | 02/08/2021  | Adjustment  |                    |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -7.38    |
|                     |             |               |             |             |                    |       | -7.38    |
| 06-0006478          | 0365702     |               | 02/02/2021  | Adjustment  |                    |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -2.00    |
|                     |             |               |             |             |                    |       | -2.00    |
| 06-0002316          | 0397800     |               | 01/28/2021  | Adjustment  | NL ADJUST          |       |          |
|                     |             |               |             |             | SEWER USE          |       | -163.00  |
|                     |             |               |             |             |                    |       | -163.00  |
| 06-0004175          | 0415300     |               | 02/02/2021  | Adjustment  |                    |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -5.66    |
|                     |             |               |             |             |                    |       | -5.66    |
| 06-0006184          | 0555600     |               | 02/03/2021  | Adjustment  | ON TIME            |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -2.00    |
|                     |             |               |             |             |                    |       | -2.00    |
| 06-0000104          | 0580600     |               | 02/02/2021  | Adjustment  | ON TIME            |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -2.72    |
|                     |             |               |             |             |                    |       | -2.72    |
| 06-0001464          | 0736200     |               | 01/27/2021  | Adjustment  | NL ADJUST          |       |          |
|                     |             |               |             |             | SEWER USE          |       | -1191.12 |
|                     |             |               |             |             | SEWER USE Interest |       | -17.94   |
|                     |             |               |             |             |                    |       | -1209.06 |
| 06-0001735          | 0768700     |               | 02/02/2021  | Adjustment  |                    |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -2.00    |
|                     |             |               |             |             |                    |       | -2.00    |
| 06-0004369          | 0821600     |               | 02/08/2021  | Adjustment  |                    |       |          |
|                     |             |               |             |             | SEWER USE Interest |       | -9.28    |
|                     |             |               |             |             |                    |       | -9.28    |
| <b>Grand Totals</b> |             |               |             |             |                    |       |          |
|                     |             |               |             | Adjustment  |                    |       |          |
|                     |             |               |             |             | SEWER USE          |       | -1473.18 |
|                     |             |               |             |             | SEWER USE Interest |       | -63.95   |

| Account No | Location No | Customer Name | Trans. Date | Trans. Type | Reason | Batch | Amount   |
|------------|-------------|---------------|-------------|-------------|--------|-------|----------|
|            |             |               |             |             |        |       | -1537.13 |

| <b>2/18/2020</b>   |                         |                            |                      | <b>BILL LIST</b>        | <b>2/28/2020</b>  |                             |                                             |                      |
|--------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------|-----------------------------|---------------------------------------------|----------------------|
| <b><u>Date</u></b> | <b><u>PAID DATE</u></b> | <b><u>Department #</u></b> | <b><u>ACCT #</u></b> | <b><u>INVOICE #</u></b> | <b><u>JOB</u></b> | <b><u>VENDOR</u></b>        | <b><u>DESCRIPTION</u></b>                   | <b><u>AMOUNT</u></b> |
|                    |                         |                            |                      |                         |                   |                             |                                             |                      |
|                    |                         | 60131                      | 51920                | 2121                    |                   | Crown Pizza                 | Meals for Overtime                          | \$ 30.00             |
|                    |                         | 60131                      | 52010                | 1312021                 |                   | The Day                     | 3 Ads-Billing, Invite to Bid-Evergree, HVAC | \$ 862.65            |
|                    |                         | 60131                      | 54170                | 113121                  |                   | Devine Hydraulics           | Vactor Truck                                | \$ 9.00              |
|                    |                         | 60131                      | 54170                | 70349113                |                   | FW Webb                     | Plug Valve Tool                             | \$ 29.26             |
|                    |                         | 60131                      | 54170                | 70357576                |                   | FW Webb                     | 1/2" Plugs                                  | \$ 24.20             |
|                    |                         | 60131                      | 54170                | 9788856780              |                   | Grainger                    | Battery Backup for the PS                   | \$ 435.56            |
|                    |                         | 60131                      | 54170                | 139569                  | 210250            | Hayes                       | Gorman Rupp Air Pump                        | \$ 616.81            |
|                    |                         | 60131                      | 54170                | 12821                   |                   | Home Depot                  | Shop Supplies                               | \$ 650.87            |
|                    |                         | 60131                      | 54170                | 448667                  |                   | NAPA                        | Heater for Mago Point                       | \$ 69.49             |
|                    |                         | 60131                      | 53070                | 446152                  |                   | NAPA                        | New Truck                                   | \$ 166.43            |
|                    |                         | 60131                      | 54170                | 446246                  |                   | NAPA                        | Gen Black Heater                            | \$ 43.39             |
|                    |                         | 60131                      | 54170                | 446474                  |                   | NAPA                        | Portable Generator                          | \$ 67.18             |
|                    |                         | 60131                      | 54170                | 447726                  |                   | NAPA                        | 3" Trash Pump                               | \$ 107.86            |
|                    |                         | 60131                      | 54170                | 447720                  |                   | NAPA                        | Portable Pump                               | \$ 32.99             |
|                    |                         | 60131                      | 54170                | 2022171340              |                   | Snap On                     | New Punch for T!                            | \$ 35.15             |
|                    |                         | 60131                      | 54170                | 5536                    |                   | Superior Industrial         | Shop Supply                                 | \$ 249.16            |
|                    |                         | 60131                      | 54170                | 121497                  |                   | Ti Sales                    | Antennas and Cable for Portable Meters      | \$ 525.00            |
|                    |                         | 60131                      | 54170                | RTN0007890              |                   | Ti Sales                    | Credit for returning atennas                | \$ (180.00)          |
|                    |                         |                            |                      |                         |                   |                             |                                             |                      |
|                    |                         |                            |                      |                         |                   |                             |                                             |                      |
|                    |                         |                            |                      |                         |                   |                             |                                             |                      |
|                    |                         |                            |                      |                         |                   |                             | <b>TOTAL</b>                                | <b>\$ 3,775.00</b>   |
|                    |                         |                            |                      |                         |                   |                             |                                             |                      |
| ALREADY PAID       |                         |                            |                      |                         |                   |                             |                                             |                      |
| 2/4/2021           | 2/19/2021               | 60131                      | 52202                | 87055446732020          |                   | American Commerce Insurance | Flood Insurance for 302 Millstone Rd        | \$ 1,576.00          |
|                    |                         |                            |                      |                         |                   |                             |                                             |                      |
| 2/11/2021          | 3/5/2021                | 60131                      | 52040                |                         |                   | US Post Office              | Renewal for 1 year for PO Box 310           | \$ 350.00            |
|                    |                         | 60131                      | 52080                | 9871365756              |                   | Verizon                     | Cell Phones                                 | \$ 774.00            |
|                    |                         | 60131                      | 52040                | 7872038                 |                   | TIAA Bank                   | Plotter Lease Fee                           | \$ 205.00            |
|                    |                         | 60131                      | 54130                | M18105                  |                   | CUSI                        | Annual Support & Maintenance                | \$ 6,160.00          |
|                    |                         | 60131                      | 52030                | 70797                   |                   | Chamber of Commerce of E CT | Membership Dues                             | \$ 311.00            |
|                    |                         | 60131                      | 52040                | 11289889                |                   | Vanco                       | Fees for electronic checks                  | \$ 295.75            |
|                    |                         | 60131                      | 52040                | 9976879152              |                   | Airgas                      | Rental for Cylinders                        | \$ 53.69             |
|                    |                         | 60131                      | 52110                |                         |                   | City of New London          | Water                                       | \$ 45.71             |
|                    |                         | 60131                      | 53310                |                         |                   | Evoqua                      | Monthly Charge for Chemicals for PS         | \$ 1,200.00          |
|                    |                         | 60131                      | 52090                |                         |                   | Eversource                  | Gas                                         | \$ 52.25             |
|                    |                         | 60131                      | 52100                |                         |                   | Eversource                  | Electric                                    | \$ 14,994.11         |
|                    |                         |                            |                      |                         |                   |                             |                                             |                      |
|                    |                         |                            |                      |                         |                   |                             |                                             |                      |
|                    |                         |                            |                      |                         |                   |                             | <b>TOTAL</b>                                | <b>\$ 26,017.51</b>  |
|                    |                         |                            |                      |                         |                   |                             |                                             |                      |
|                    |                         |                            |                      |                         |                   |                             | <b>GRAND TOTAL</b>                          | <b>\$ 29,792.51</b>  |

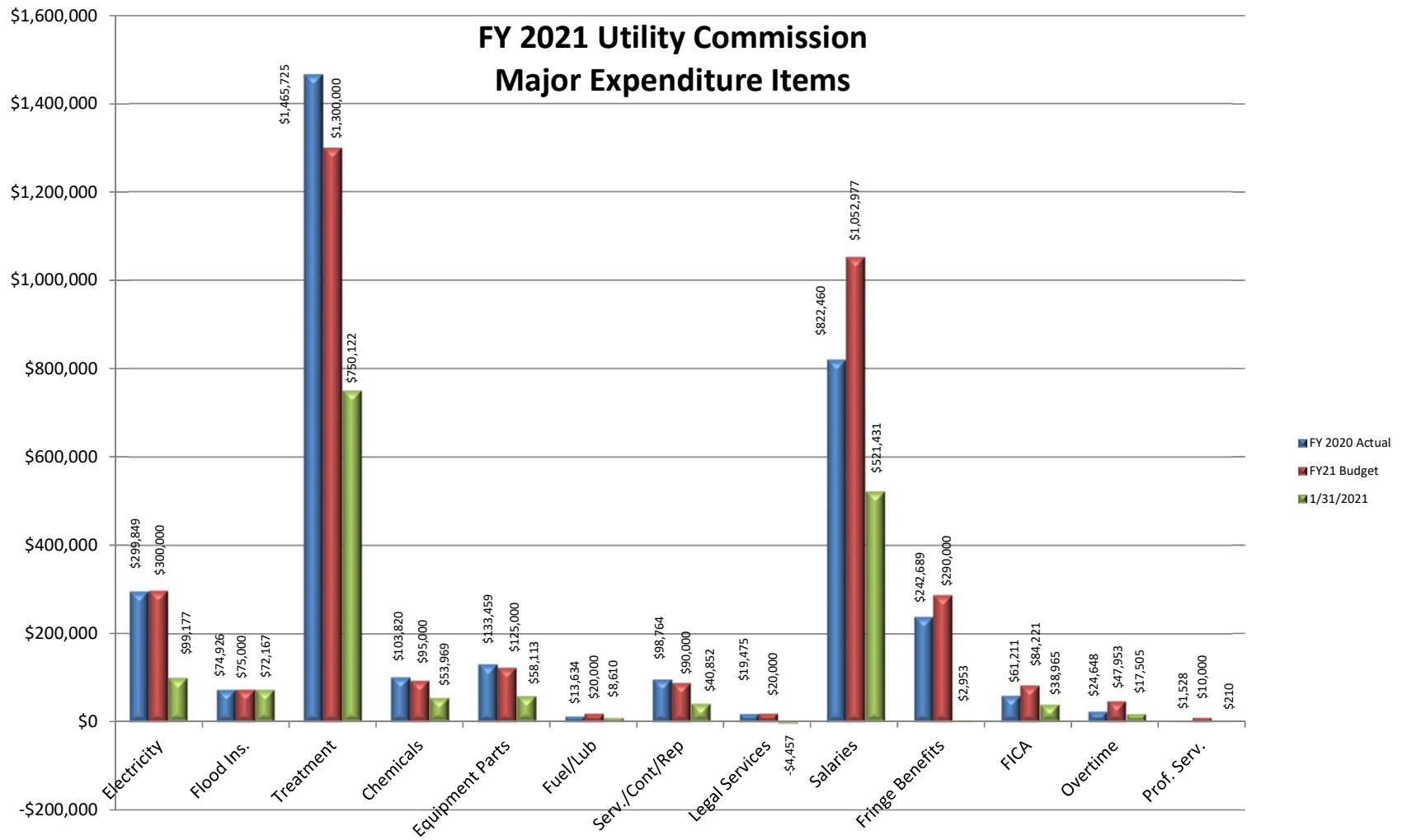
| <b>Wastewater Enterprise Fund FY 2021 - Performance Progress - Cumulative</b> |                       |                               |                                     |                                     |                  |                  |
|-------------------------------------------------------------------------------|-----------------------|-------------------------------|-------------------------------------|-------------------------------------|------------------|------------------|
|                                                                               |                       |                               |                                     |                                     |                  |                  |
| <b>Month Ending</b>                                                           | <b>Billings FY 21</b> | <b>Expenditures<br/>FY 21</b> | <b>Actual Collections FY<br/>21</b> | <b>Actual Collections<br/>FY 20</b> | <b>Rev FY 20</b> | <b>Exp FY 20</b> |
| 7/31/20                                                                       | \$19,414              | \$72,336                      | \$658,113                           | \$695,689                           | \$23,981         | \$110,914        |
| 8/31/20                                                                       | \$29,282              | \$224,471                     | \$810,222                           | \$834,268                           | \$40,299         | \$291,616        |
| 9/30/20                                                                       | \$35,505              | \$1,067,669                   | \$916,875                           | \$874,785                           | \$27,971         | \$1,015,091      |
| 10/31/20                                                                      | \$1,047,611           | \$1,265,660                   | \$1,665,442                         | \$1,636,562                         | \$999,673        | \$1,168,315      |
| 11/30/20                                                                      | \$1,061,469           | \$1,461,451                   | \$1,891,978                         | \$1,777,971                         | \$1,013,082      | \$1,365,066      |
| 12/31/20                                                                      | \$1,070,039           | \$1,574,768                   | \$1,945,328                         | \$1,819,750                         | \$1,027,038      | \$1,730,566      |
| 1/31/21                                                                       | \$2,021,715           | \$1,713,113                   | \$2,552,576                         | \$2,530,327                         | \$1,950,795      | \$1,945,572      |
| 2/29/21                                                                       |                       |                               |                                     | \$2,760,028                         | \$1,972,295      | \$2,072,289      |
| 3/31/21                                                                       |                       |                               |                                     | \$2,820,744                         | \$1,984,582      | \$2,228,364      |
| 4/30/21                                                                       |                       |                               |                                     | \$3,528,312                         | \$2,832,631      | \$3,194,895      |
| 5/31/21                                                                       |                       |                               |                                     | \$3,628,128                         | \$2,851,292      | \$3,315,415      |
| 6/30/21                                                                       |                       |                               |                                     | \$3,676,533                         | \$3,757,519      | \$3,503,869      |
|                                                                               |                       |                               |                                     |                                     |                  |                  |
| <b>February 16 -2021 Regular Meeting ZOOM</b>                                 |                       |                               |                                     |                                     |                  |                  |

## Progressive Performance of Wastewater Enterprise Budget FY 2021

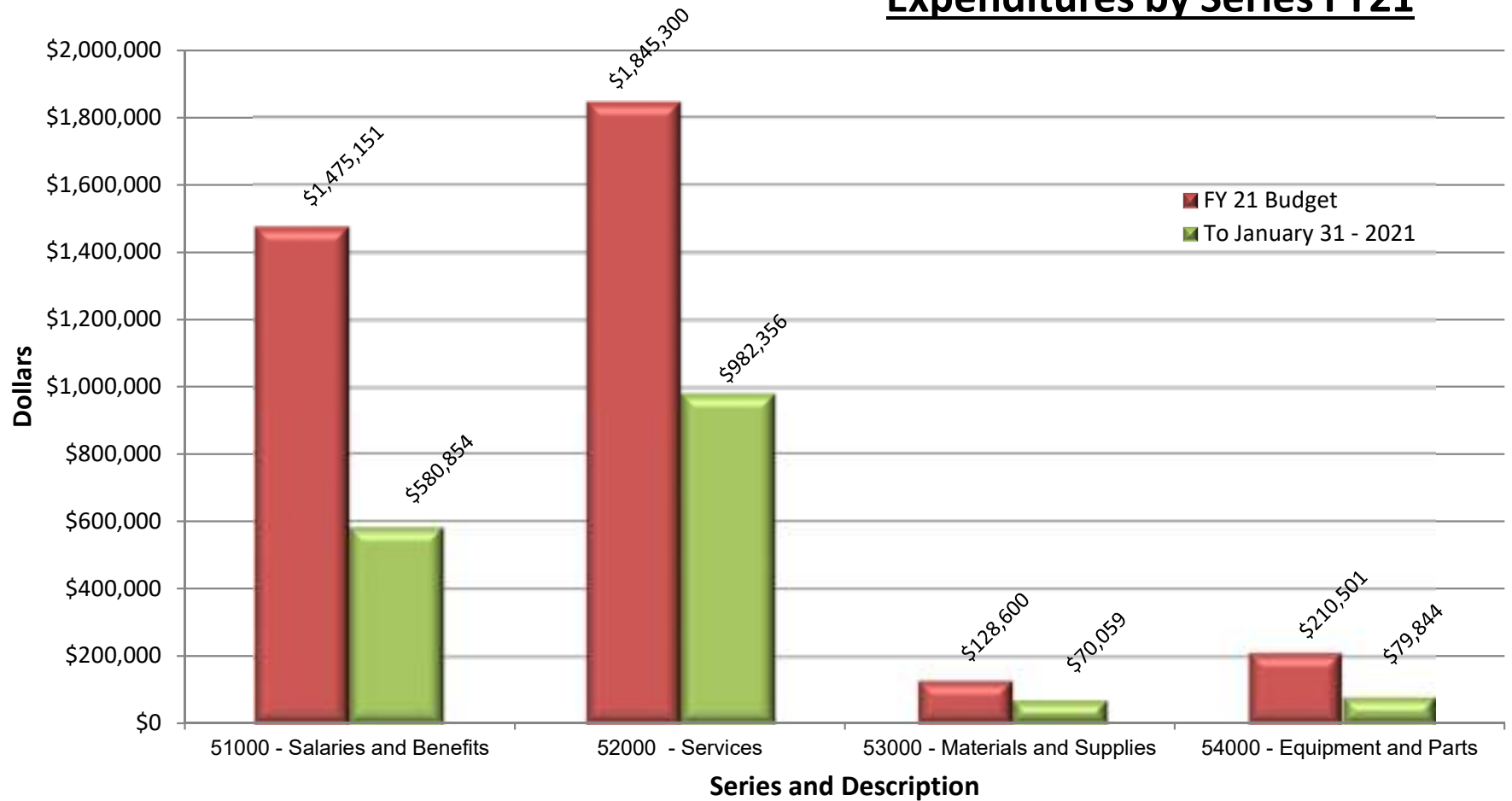


Feb. 16 - 2021 Regular Meeting ZOOM

## FY 2021 Utility Commission Major Expenditure Items



## Expenditures by Series FY21



## **Sewer Use Collections Status as of February 12, 2021**

972 Files referred for collections with a current total of \$611,813.56

### **To Date:**

- 829 Paid/Closed
- 48 Payment Plans – \$181,102.75
- 14 Town Real Estate Tax Foreclosures - \$94,074.39
- 16 Other entity foreclosures/bankruptcy/military - \$57,230.54

### **Activities over next 60-90 Days:**

- 31 Filed or Filing lawsuits for non-payment - \$119,864.03
- 14 Town Sewer Use Foreclosures - \$117,173.76
- 20 Miscellaneous follow-up, on hold, bank owned, new referrals - \$42,368.09

### **Delinquent Sewer Use Collections Summary through February 12, 2021:**

|                                                                     |                |
|---------------------------------------------------------------------|----------------|
| Fiscal Total Use Collections from July 1, 2011 to February 12, 2021 | \$2,154,946.77 |
| Fiscal Year Use Collections YTD                                     | \$ 133,969.98  |
| Fiscal Year Attorney Fees and Costs Expended *                      | \$ 33,534.79   |
| Fiscal Year Attorney Fees and Costs Recovered                       | \$ 36,107.65   |

\*Does not include January bill

## **SUMMARY FOR PREVIOUS FISCAL YEAR COLLECTIONS**

### **2000 THROUGH 2017**

|                                        |                      |
|----------------------------------------|----------------------|
| UTILITY COMMISSION FILES TOTAL:        | \$ 1,921,603.90      |
| TAX COLLECTOR FILES TOTAL:             | \$ 5,205,748.53      |
| UTILITY COMMISSION LEGAL REIMBURSEMENT | \$ 180,116.83        |
| MISC. COLLECTION FILES TOTAL:          | <u>\$ 743,672.87</u> |
|                                        | \$ 8,051,142.13      |

### **FISCAL YEAR 2018**

|                                        |                     |
|----------------------------------------|---------------------|
| UTILITY COMMISSION FILES TOTAL:        | \$ 250,573.49       |
| TAX COLLECTOR FILES TOTAL:             | \$ 700,752.17       |
| UTILITY COMMISSION LEGAL REIMBURSEMENT | \$ 47,979.70        |
| TAX & WUC LEGAL REIMBURSEMENT:         | <u>\$ 26,266.71</u> |
| <b>TOTAL</b>                           | \$ 1,025,572.07     |

### **FISCAL YEAR 2019**

|                                        |                     |
|----------------------------------------|---------------------|
| UTILITY COMMISSION FILES TOTAL:        | \$ 215,330.67       |
| TAX COLLECTOR FILES TOTAL:             | \$ 794,921.89       |
| UTILITY COMMISSION LEGAL REIMBURSEMENT | \$ 54,793.23        |
| TAX & WUC LEGAL REIMBURSEMENT:         | <u>\$ 45,981.33</u> |
| <b>TOTAL</b>                           | \$ 1,111,027.12     |

### **FISCAL YEAR 2020**

|                                        |                     |
|----------------------------------------|---------------------|
| UTILITY COMMISSION FILES TOTAL:        | \$ 175,514.89       |
| TAX COLLECTOR FILES TOTAL:             | \$ 482,767.88       |
| UTILITY COMMISSION LEGAL REIMBURSEMENT | \$ 46,696.76        |
| TAX & WUC LEGAL REIMBURSEMENT:         | <u>\$ 36,184.35</u> |
| <b>TOTAL</b>                           | \$ 741,163.88       |

### **FISCAL YEAR TO DATE 2021 (JULY 1, 2020 TO FEBRUARY 11, 2021)**

|                                        |                     |
|----------------------------------------|---------------------|
| UTILITY COMMISSION FILES TOTAL:        | \$ 133,969.98       |
| TAX COLLECTOR FILES TOTAL:             | \$ 365,504.47       |
| UTILITY COMMISSION LEGAL REIMBURSEMENT | \$ 36,107.65        |
| TAX & WUC LEGAL REIMBURSEMENT:         | <u>\$ 27,377.69</u> |
| <b>TOTAL</b>                           | \$ 562,959.79       |

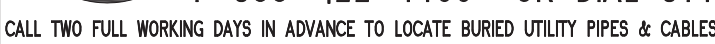
### **GRAND TOTAL COLLECTED SINCE APPOINTMENT**

**AS TOWN ATTORNEY: \$11,491,864.99**

TOWN OF WATERFORD, CONNECTICUT  
CONSTRUCTION COST ESTIMATE SUMMARY

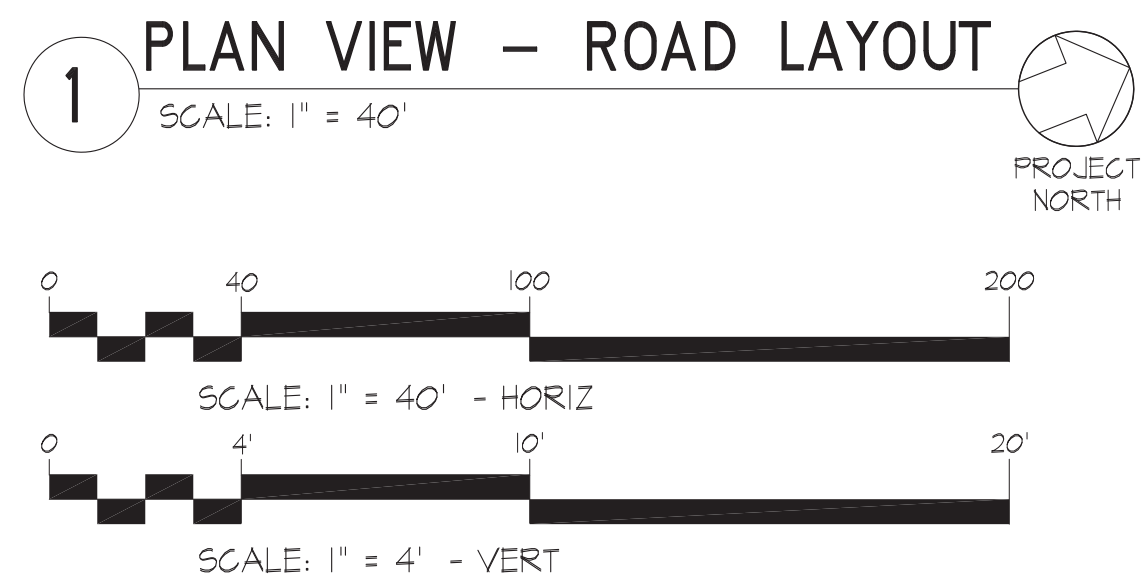
EVERGREEN PUMP STATION - Install 4th Pump

| Item Description                              | Quantity | Units | Unit Cost    | Total Material Cost | Labor Cost   | Total Cost           |
|-----------------------------------------------|----------|-------|--------------|---------------------|--------------|----------------------|
| <b>Demolition</b>                             |          |       |              |                     |              |                      |
| General Demolition                            | 1        | LS    | \$ 5,000.00  | \$ -                | \$ 5,000.00  | \$ 5,000.00          |
| <b>Subtotal</b>                               |          |       |              |                     |              | <b>\$ 5,000.00</b>   |
| <b>Architectural</b>                          |          |       |              |                     |              |                      |
| Misc. Painting                                | 1        | LS    | \$ 2,500.00  | \$ 2,500.00         | \$ -         | \$ 2,500.00          |
| <b>Subtotal</b>                               |          |       |              |                     |              | <b>\$ 2,500.00</b>   |
| <b>Structural</b>                             |          |       |              |                     |              |                      |
| Concrete Equipment Pads, Misc.                | 1        | LS    | \$ 2,500.00  | \$ 2,500.00         | \$ -         | \$ 2,500.00          |
| Misc. Metals/Pipe Supports                    | 1        | LS    | \$ 5,000.00  | \$ 5,000.00         | \$ -         | \$ 5,000.00          |
| <b>Subtotal</b>                               |          |       |              |                     |              | <b>\$ 7,500.00</b>   |
| <b>Process</b>                                |          |       |              |                     |              |                      |
| Submersible Pump                              | 1        | LS    | \$ 75,000.00 | \$ 75,000.00        | \$ 18,750.00 | \$ 93,750.00         |
| 16-in Check Valves                            | 1        | EA    | \$ 12,000.00 | \$ 12,000.00        | \$ 3,000.00  | \$ 15,000.00         |
| 16-in Plug Valves                             | 2        | EA    | \$ 10,000.00 | \$ 20,000.00        | \$ 5,000.00  | \$ 25,000.00         |
| 16-in DIP and Fittings                        | 1        | LS    | \$ 10,000.00 | \$ 10,000.00        | \$ 2,500.00  | \$ 12,500.00         |
| <b>Subtotal</b>                               |          |       |              |                     |              | <b>\$ 146,250.00</b> |
| <b>Electrical/Instrumentation</b>             |          |       |              |                     |              |                      |
| Control Panel Program Upgrade                 | 1        | LS    | \$ 7,500.00  | \$ 7,500.00         | \$ -         | \$ 7,500.00          |
| Conduit and Wiring                            | 1        | EA    | \$ 10,000.00 | \$ 10,000.00        | \$ 5,000.00  | \$ 15,000.00         |
| VFD Equipment                                 | 1        | EA    | \$ 20,000.00 | \$ 20,000.00        | \$ 6,000.00  | \$ 26,000.00         |
| <b>Subtotal</b>                               |          |       |              |                     |              | <b>\$ 48,500.00</b>  |
| <b>Subtotal</b>                               |          |       |              |                     |              | <b>\$ 209,750.00</b> |
| <b>Miscellaneous Items</b>                    |          |       |              |                     |              |                      |
| Mobilization/Demobilization                   | 1        | LS    | \$ -         | \$ -                | \$ -         | \$ 10,487.50         |
| Cleanup                                       | 1        | LS    | \$ 5,000.00  | \$ 5,000.00         | \$ -         | \$ 5,000.00          |
| Bonding                                       | 1        | LS    | \$ 2,500.00  | \$ 2,500.00         | \$ -         | \$ 2,500.00          |
| GC Overhead & Profit @ 15%                    | 1        | LS    | \$ -         | \$ -                | \$ -         | \$ 31,462.50         |
| <b>Subtotal</b>                               |          |       |              |                     |              | <b>\$ 49,450.00</b>  |
| <b>Subtotal</b>                               |          |       |              |                     |              | <b>\$ 259,200.00</b> |
| <b>Construction Contingency @ 10%</b>         |          |       |              |                     |              | <b>\$ 25,920.00</b>  |
| <b>Engineering Construction Cost Estimate</b> |          |       |              |                     |              | <b>\$ 285,120.00</b> |
| <b>Engineering - Design @ 6%</b>              |          |       |              |                     |              | <b>\$ 17,107.20</b>  |
| <b>TOTAL PROJECT COST</b>                     |          |       |              |                     |              | <b>\$ 302,227.20</b> |



1-800-922-4455 OR DIAL 811

CALL TWO FULL WORKING DAYS IN ADVANCE TO LOCATE BURIED UTILITY PIPES & CABLES



| LANDSCAPE PLANTING SCHEDULE |     |                |             |                                   |
|-----------------------------|-----|----------------|-------------|-----------------------------------|
| KEY                         | QTY | BOTANICAL NAME | COMMON NAME | SIZE/SPACING                      |
| AR                          | 14  | ACER RUBRUM    | RED MAPLE   | B&B; 3" CAL; 6'H AT PLANTING TIME |

A detailed cross-section diagram of a 50-foot Right of Way (R/W). The diagram shows a central travel lane consisting of two 11-foot 12-inch lanes separated by a centerline. The travel lanes are paved with a top binder course and extend 1 foot past the top course. On either side of the travel lanes are grass shoulders, each at least 4 feet wide, with a maximum width of 3 feet 1 inch. The shoulders are planted with loam and hydroseed. A curb or bit berm is located between the travel lanes and the shoulders, with a maximum height of 2 inches. The subgrade is approved granular material. Street lighting is shown on the right side, and street trees are shown on both sides. The diagram also indicates the location of utilities per utility section.

Labels and dimensions in the diagram include:

- STREET TREES (WITHIN OR ALONG R/W)
- R/W
- 50' RIGHT OF WAY (R/W)
- 11'-12" TRAVEL LANE
- GRASS SHOULDER (4' MIN.)
- VARIES 3'-1" MAX
- LOAM & HYDROSEED (TYP.)
- TOP & BINDER COURSE PAVEMENT (SEE PAVEMENT SECTION DETAIL)
- EXTEND BINDER 1' MIN. PAST TOP COURSE
- CURB OR BIT. BERM
- 5.0% MAX
- 2% MAX
- 2% MAX
- GRASS SHOULDER (4' MIN.)
- VARIES 3'-1" MAX
- STREET LIGHTING (OPTIONAL)
- APPROVED GRANULAR SUBGRADE
- UTILITIES PER UTILITY SECTION
- COMPACTED GRAVEL BASE COURSE PLACED ON FIRM MATERIAL IN 3" LIFTS (COMPACTED TO 96%)

**TYPICAL ROADWAY UTILITY CROSS SECTION**

**NO SWALE**  
**NOT TO SCALE**

**NOTES:**

- A MINIMUM OF 10 FEET SEPARATION BETWEEN WATER AND SEWER MAINS SHALL BE MAINTAINED. THIS SEPARATION NEED NOT BE HORIZONTAL, HOWEVER THE WATER MAIN SHALL IN ALL CASES BE UPGRADIENT OF THE SEWER MAIN BY 3 FEET MINIMUM.

**NOTES:**

- HORIZONTAL UTILITY DISTANCES ARE SHOWN FOR MINIMUM SEPARATIONS. SEE SITE PLAN FOR ACTUAL LOCATIONS. SEE TYPICAL DETAILS FOR EACH SEPARATE MINIMUM UTILITY DEPTH.

WORK WITHIN TOWN R.O.W.

ANY WORK WITHIN THE TOWN R.O.W. SHALL REQUIRE EXCAVATION & SITE ACCESS PERMITS FROM THE TOWN DEPT. OF PUBLIC WORKS.  
ALL NEW PAVEMENT, CURBS, WALKS & SHOULDERS TO BE CONSTRUCTED IN CONFORMANCE WITH TOWN DPW DETAILS, SPECIFICATIONS & STANDARDS.

## SITE WORK & SAFETY NOTES

- D-1) CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO CLEARING, DEMOLITION, SITEWORK, TEMPORARY & PERMANENT POWER & ALL OTHER UTILITY SERVICES, SIDEWALK CLOSURE, R.O.W. ENCROACHMENT, ROAD CUT AND ANY OTHER PERMIT THAT MAY APPLY.
- D-2) ANY PAVEMENT REMOVAL WITHIN THE TRAVELLED PORTIONS OF ROADS AND PARKING AREAS SHALL BE SAWCUT SMOOTH WITH TRUE ALIGNMENT.
- D-3) CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL SURPLUS MATERIAL OFF SITE. ANY ITEMS/MATERIAL TO BE SAVED FOR FUTURE RE-USE SHALL BE APPROPRIATELY STOCKPILED ON SITE AND PROTECTED WITH ADEQUATE SECC. MEASURES TO PREVENT SEDIMENTATION OR DAMAGE TO DOWNGRADE OR ADJACENT PROPERTIES.
- D-4) CONTRACTOR SHALL MAINTAIN THE STAKED SEDIMENT FENCE ALONG ALL LIMITS OF SITE SURFACE DISTURBANCES UNTIL FINAL SURFACE STABILIZATION HAS BEEN ESTABLISHED.
- D-5) CONTRACTOR SHALL PROTECT ANY EXISTING STORM CATCH BASIN INLETS THAT MAY BE AFFECTED FROM ANY SEDIMENTATION OR ADVERSE IMPACTS.
- D-6) CONTRACTOR SHALL BARRICADE AND APPROPRIATELY SIGN ALL EXCAVATED TRENCHES, TEST HOLES AND OTHER EXCAVATIONS TO PREVENT ACCIDENTAL FALLS AND UNAUTHORIZED ENTRY DURING THE CONSTRUCTION PHASE. ALL WORK PROCEDURES & INSTALLATIONS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE & FEDERAL SAFETY REGULATIONS. TEST HOLES/PITS AND EXCAVATIONS DEEPER THAN 4' SHALL NOT BE LEFT EXPOSED OR UNPROTECTED OVER NIGHT OR FOR ANY 24-HOUR PERIOD AND SHALL NOT ALLOW UNSUPERVISED PUBLIC ACCESS TO SAME.
- D-7) CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL DEMOLITION & RELATED WORK IN SUCH A MANNER SO THAT NO UNREASONABLE DISTURBANCE, DUST, DEBRIS OR DAMAGE OCCURS TO ADJACENT PROPERTIES OR THE GENERAL PUBLIC.
- D-9) THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TRENCHBOX SUPPORT AND THE LIKE, FOR ALL EXCAVATIONS AS REQUIRED. NO WORKERS ARE PERMITTED TO ENTER OR WORK WITHIN AN UNPROTECTED EXCAVATION.
- D-10) THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMP. DE-WATERS OF EXCAVATIONS AS REQUIRED. METHODS SHALL NOT PRODUCE EROSION OR SEDIMENTATION ANYWHERE ON-SITE OR OFF-SITE.
- D-11) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY TRAFFIC CONTROL INCLUDING FLAGPERSONS, BARRIERS, FENCING, BARRICADES, SIGNAGE, TEMPORARY LIGHTS, ETC. DURING ANY SITE INVESTIGATION, TEST PITS, DEMOLITION AND UTILITY/PAVEMENT/CURB/WALK WORK WITHIN THE TOWN STREET R.O.W.
- D-12) THE CONTRACTOR SHALL NOTIFY/COORDINATE WITH ALL RESPECTIVE UTILITY AGENCIES THAT MAY HAVE UTILITY LINES, STRUCTURES OR EQUIPMENT WITHIN THE PROPOSED WORK AREA. ALL WORK AROUND THESE UTILITIES SHALL BE IN STRICT ACCORDANCE WITH THE RESPECTIVE UTILITY AGENCY SPECIFICATIONS.

Edward H. Wenke III, PE

CIVIL – STRUCTURAL ENGINEER

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PRELIMINARY  
NOT FOR  
PERMITTING OR  
CONSTRUCTION

EDWARD H. WENKE III, PE  
CT PE # 16771

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## REVISIONS

[illegible]

## ROAD PLAN & PROFILE

SINGLE-FAMILY RESIDENTIAL RE-SUBDIVISION

FOR OWNER / APPLICANT:

FOR PROPERTY LOCATED AT  
2771 1721

476 B10164 ZONE R-20

430 MOHEGAN AVE PARKWAY (CT ROUTE 32) - M76 B10164

|         |
|---------|
| Dwg. No |
|---------|

C-04

SHEET 4 OF 10

Scale:

AS SHOWN

Date \_\_\_\_\_

JANUARY 202

Project No.

210101

## UTILITY STATEMENT

UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING INFORMATION, FIELD SURVEY AND OTHER SOURCES. THE SURVEYOR AND THIS PLAN SET MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, IN ACCORDANCE WITH CBYD NOTIFICATION PROCEDURES PRIOR TO COMMENCING WORK.

## GENERAL GRADING NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION FORM 817 AS APPLICABLE. WORK WITHIN THE ROAD RIGHT-OF-WAYS SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF WATERFORD STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATIVE IMMEDIATELY.
- THE EXCAVATING CONTRACTOR SHALL TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, OR AS REQUIRED BY GOVERNING UTILITY COMPANY. TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING IN, AROUND OR OVER UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE IS PRESENT TO INSTRUCT AND OBSERVE.
- TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH ENGINEERED GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
- AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED BUILDING OR PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
- PROVIDE POSITIVE DRAINAGE WITHOUT PONDING. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT IF ANY, "BIRD BATH" CONDITIONS.
- ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
- SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE INDICATED ON THE PLANS.
- EXTRACTION, GRADING, FILLING AND/OR PROCESSING SHALL NOT INVOLVE THE REMOVAL OR DEPOSITION OF MORE MATERIAL(S) THAN NECESSARY TO ACCOMMODATE THE PROPOSED DEVELOPMENT. MAINTAIN STABILITY AND MAINTENANCE OF GRADED AREAS UPON COMPLETION OF SITE WORK, AND MAINTAIN NO ADVERSE IMPACT ON ADJUTING PROPERTIES, THE PUBLIC RIGHT OF WAY, PUBLIC SAFETY, NOR NATURAL RESOURCES.

## DRAINAGE

- STORMWATER RUNOFF FROM THE PROPOSED DEVELOPMENT WILL BE COLLECTED THROUGH A SERIES OF ROOF LEADERS, SWALES, YARD DRAINS, CATCH BASINS & PIPING AND DISCHARGED TO SUBSURFACE INFILTRATION SYSTEMS, VEGETATED FILTER SWALES & DETENTION BASINS.
- THE SUBSURFACE INFILTRATION/TREATMENT SYSTEM IS CONSISTS OF STORMTECH SC-740 CHAMBERS BACKFILLED WITH WASHED STONE. THE SUBSURFACE INFILTRATION/TREATMENT SYSTEMS IN COMBINATION WITH THE DETENTION BASINS ATTENUATE PEAK FLOW RATES FOR THE 2, 5, 10, 25, 50 AND 100-YEAR STORM EVENTS AS COMPARED TO PRE-DEVELOPED (EXISTING) CONDITIONS. THERE WILL BE NO INCREASE IN PEAK FLOW RATES OR VOLUMES DISCHARGING TO THE DOWNGRADE WETLANDS OR ADJACENT PROPERTIES.
- STORMWATER RUNOFF FROM IMPERVIOUS SURFACES WILL BE TREATED AS FOLLOWS:  
A. IMPERVIOUS SURFACES HAVE BEEN DISCONNECTED WHERE POSSIBLE TO ENCOURAGE VEGETATED OVERLAND FLOW.  
B. ALL CATCH BASINS SHALL HAVE 2" MIN. DEEP SUMPS.  
C. CONCENTRATED FLOWS FROM THE COLLECTION SYSTEM WILL BE DIVERTED THROUGH EITHER VEGETATED FILTER SWALES OR THROUGH AN ISOLATOR ROW WITHIN THE STORMTECH SYSTEMS AND DISCHARGED TO SEDIMENT FOREBAY/FILTER BASIN. IN COMBINATION THE SYSTEM WILL CAPTURE TOTAL SUSPENDED SOLIDS (TSS) AND DEBRIS.  
D. THE VEGETATED DETENTION BASINS HAVE A 12" MIN. DEEPRESSURE BOTTOM ELEVATION FURTHER ENCOURAGING FILTRATION AND INFILTRATION.
- THE DESIGN ENGINEER SHALL OVERSEE THE INSTALLATION OF THE PROPOSED STORMWATER DETENTION & TREATMENT SYSTEMS AND CERTIFY THAT IT WAS CONSTRUCTED SUBSTANTIALLY IN ACCORDANCE WITH THE PLAN. CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS TO THE DESIGN ENGINEER PRIOR TO INSTALLATION AND SHALL SEQUENCE CONSTRUCTION TO ENSURE THE FOLLOWING COMPONENTS ARE INSPECTED BY THE DESIGN ENGINEER PRIOR TO BACKFILL OR CONCEALMENT:  
A. EXCAVATION LIMITS AND SURROUNDING UNDISTURBED SOILS.  
B. PLACEMENT OF GEOTEXTILE WRAP AND BASE STONE & CURTAIN DRAIN PIPE  
C. PLACEMENT OF GEOTEXTILE BASE & WRAP FOR ISOLATOR ROW  
D. PLACEMENT OF SC-740 UNITS AND MANFOLDS AND STONE BACKFILL  
E. GRADING OF AND PLACEMENT OF FILTER MATERIAL WITHIN DETENTION BASINS  
F. INSTALLATION OF OUTLET STRUCTURES AND PIPE CONNECTIONS
- AN AS-BUILT SURVEY OF THE STORMWATER SYSTEM COMPONENTS SHALL BE SUBMITTED TO THE COMMISSION WITH WRITTEN VERIFICATION FROM THE DESIGN ENGINEER THAT THE SYSTEM WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED DESIGN PLANS.

## STORMWATER OPERATIONS & MAINTENANCE

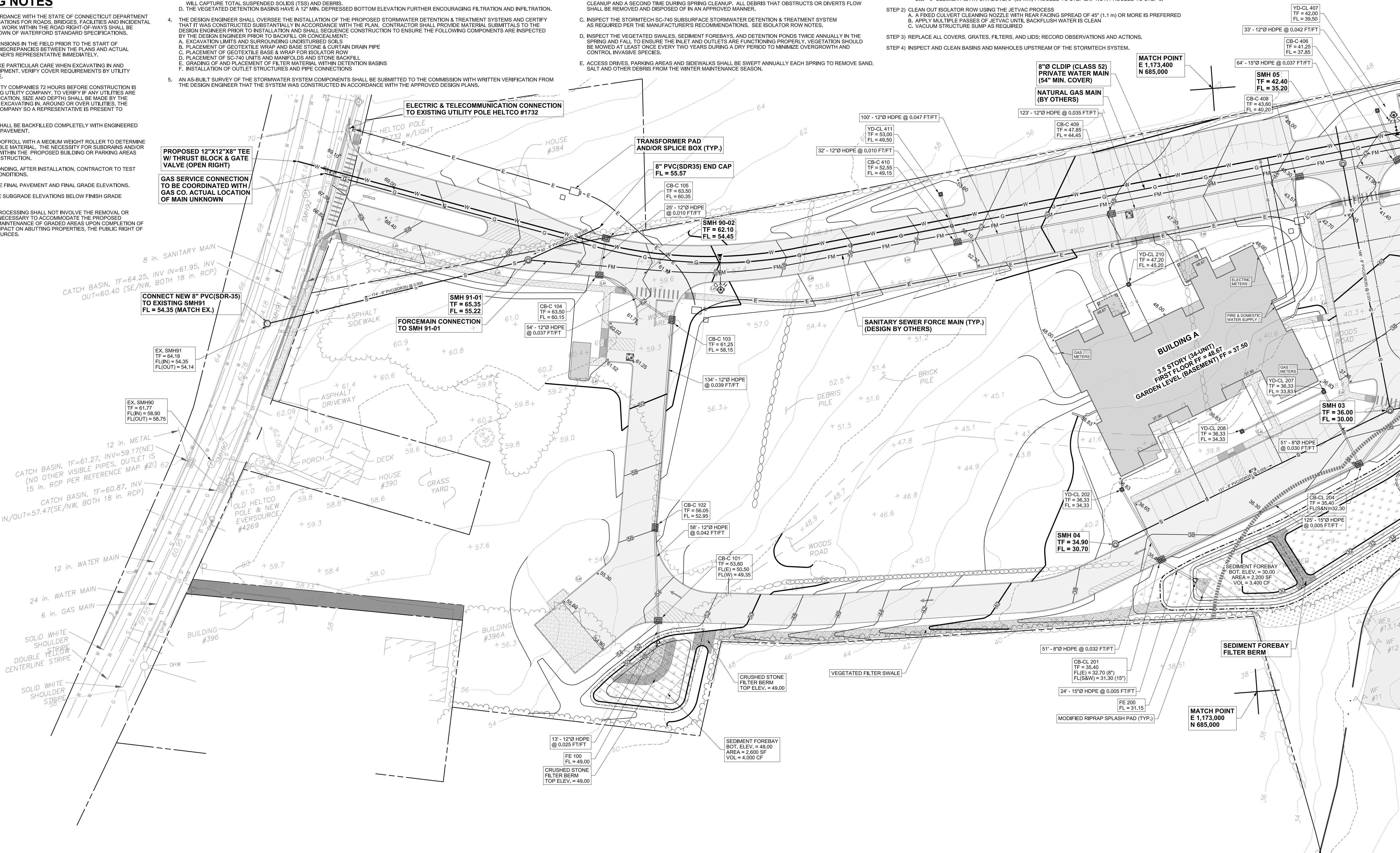
THE FOLLOWING OPERATION & MAINTENANCE PLAN SHALL BE IMPLEMENTED TO ENSURE THAT STORMWATER MANAGEMENT SYSTEMS FUNCTION AS DESIGNED. A CONDENSED INSPECTION AND MAINTENANCE CHART SHALL BE PREPARED BY THE DESIGN ENGINEER AND SUBMITTED TO THE COMMISSION'S AGENT FOR REVIEW AND APPROVAL PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

- OWNER & PARTY RESPONSIBLE FOR OPERATION AND MAINTENANCE: SIG CON ASSOCIATES, LLC
- THE FOLLOWING MAINTENANCE SHALL BE PERFORMED AND A MAINTENANCE LOG OR CHECKLIST COMPLETED.  
A. INSPECT EACH CATCH BASIN ANNUALLY IN THE SPRING FOLLOWING THE WINTER SEASON. REMOVE ALL COLLECTED SEDIMENT AND DEBRIS AND DISPOSE OF IN AN APPROVED MANNER.  
B. INSPECT EACH VEGETATED/LANDSCAPED AREA TWICE ANNUALLY, ONCE IN THE FALL AS PART OF FOLIAGE CLEANUP AND A SECOND TIME DURING SPRING CLEANUP. ALL DEBRIS THAT OBSTRUCTS OR DIVERTS FLOW SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.  
C. INSPECT THE STORMTECH SC-740 SUBSURFACE STORMWATER DETENTION & TREATMENT SYSTEM AS REQUIRED PER THE MANUFACTURER'S RECOMMENDATIONS. SEE ISOLATOR ROW NOTES.  
D. INSPECT THE VEGETATED SWALES, SEDIMENT FOREBAYS, AND DETENTION PONDS TWICE ANNUALLY IN THE SPRING AND FALL TO ENSURE THE INLET AND OUTLETS ARE FUNCTIONING PROPERLY. VEGETATION SHOULD BE MOWED AT LEAST ONCE EVERY TWO YEARS DURING A DRY PERIOD TO MINIMIZE OVERGROWTH AND CONTROL INVASIVE SPECIES.  
E. ACCESS DRIVES, PARKING AREAS AND SIDEWALKS SHALL BE SWEEPED ANNUALLY EACH SPRING TO REMOVE SAND, SALT AND OTHER DEBRIS FROM THE WINTER MAINTENANCE SEASON.

## ISOLATOR ROW INSPECTION & MAINTENANCE

THE STORMTECH SC-740 ISOLATOR ROW SHALL BE INSPECTED AS FOLLOWS EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. INSPECTION INTERVALS SHALL BE ADJUSTED BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT AND DEBRIS ACCUMULATIONS AND HIGH WATER ELEVATIONS. JETTING AND VACTORING SHALL BE CONDUCTED ANNUALLY OR WHEN MAINTENANCE IS NECESSARY.

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- INSPECTION PORTS (CATCH BASIN GRATES OR MANHOLE COVERS)
    - REMOVE/OPEN GRATE/LID ON DRAINAGE STRUCTURE
    - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
    - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
  - ALL ISOLATOR ROWS
    - REMOVE GRATE/LID FROM STRUCTURE AT UPSTREAM EACH END OF ISOLATOR ROW
    - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
  - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
  - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.



SCALE: 1" = 30'

PROJECT NUMBER: 00096 - 001

**CONTACT INFORMATION**

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PROFESSIONAL SEAL

**WATERFORD WOODS CONSERVATION COMMISSION SITE PLANS**

PREPARED FOR  
SIG CON ASSOCIATES

**GRADING, DRAINAGE & UTILITY PLAN - NORTH**

384 & 394 WILLETTS AVENUE

WATERFORD, CT

| REVISION SUMMARY |                                    | SHEET<br>5 OF 14 |
|------------------|------------------------------------|------------------|
| DATE             | DESCRIPTION                        |                  |
| 12/30/20         | PER IWCC COMMENTS / PZC SUBMISSION |                  |
| 11/18/20         |                                    |                  |
| 12/30/20         |                                    |                  |

## GENERAL UTILITY NOTES

- ALL UNDERGROUND UTILITIES MUST BE INSTALLED IN ACCORDANCE WITH THE STANDARDS, SPECIFICATIONS AND DETAILS OF THE APPROPRIATE PUBLIC UTILITY COMPANY.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND ORDER ALL NEW SERVICES, LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERING DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.
- BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPROPRIATE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
- WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURE OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING, THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED. NOTIFICATION SHALL BE GIVEN TO THE OWNER IF THE FIELD VERIFICATION DIFFERS FROM THE INFORMATION ON THE DRAWINGS.
- FOR CLARITY PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.

## WATER

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "STANDARDS AND SPECIFICATIONS FOR WATER MAIN INSTALLATIONS BY DEVELOPERS IN THE TOWN OF WATERFORD" AND ALL OTHER RULES AND REGULATIONS FOR WATER MAIN AND SERVICES OF THE WATERFORD UTILITY COMMISSION AND THE CITY OF NEW LONDON PUBLIC UTILITIES.
- AN 8" COLDIP (CLASS 52) PRIVATE WATER MAIN SHALL BE INSTALLED BY THE DEVELOPER FROM THE EXISTING WATER MAIN IN WILLETTS AVENUE EXT. TO PROVIDE DOMESTIC AND FIRE SUPPRESSION WATER SUPPLY TO EACH BUILDING AND NEW FIRE HYDRANTS AS SHOWN ON THE PLAN. INSTALLATION, OPERATION, MAINTENANCE, AND REPAIR OF THE PRIVATE WATER MAIN IS THE SOLE RESPONSIBILITY OF THE DEVELOPER AND/OR PROPERTY OWNER. AN EASEMENT SHALL BE GRANTED TO THE TOWN OF WATERFORD AND CITY OF NEW LONDON FOR THE PURPOSES OF ACCESSING THE METERS, VALVES AND WATER APPURTENANCES ON THE SITE.
- DOMESTIC WATER SERVICE PIPES (SIZE TBD) SHALL BE INSTALLED FROM THE PRIVATE MAIN TO A METER WITHIN THE UTILITY ROOMS LOCATED IN EACH BUILDING. THE SERVICE AND METER SIZES SHALL BE CONFIRMED BY THE PROJECT ARCHITECT OR MECHANICAL ENGINEER FOLLOWING A HYDRANT FLOW TEST TO BE PERFORMED BY THE DEVELOPER AND/OR PROPERTY OWNER.
- 4" COLDIP FIRE SUPPRESSION WATER SERVICES PIPES SHALL BE INSTALLED FROM THE PRIVATE MAIN TO THE SPRINKLER CONTROL ROOM WITHIN EACH APARTMENT BUILDING. FIRE SUPPRESSION SERVICE PIPE SIZES SHALL BE CONFIRMED BY THE PROJECT ARCHITECT OR MECHANICAL ENGINEER FOLLOWING A HYDRANT FLOW TEST TO BE PERFORMED BY THE DEVELOPER AND/OR PROPERTY OWNER.

## SANITARY

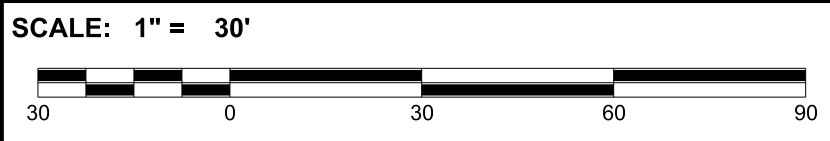
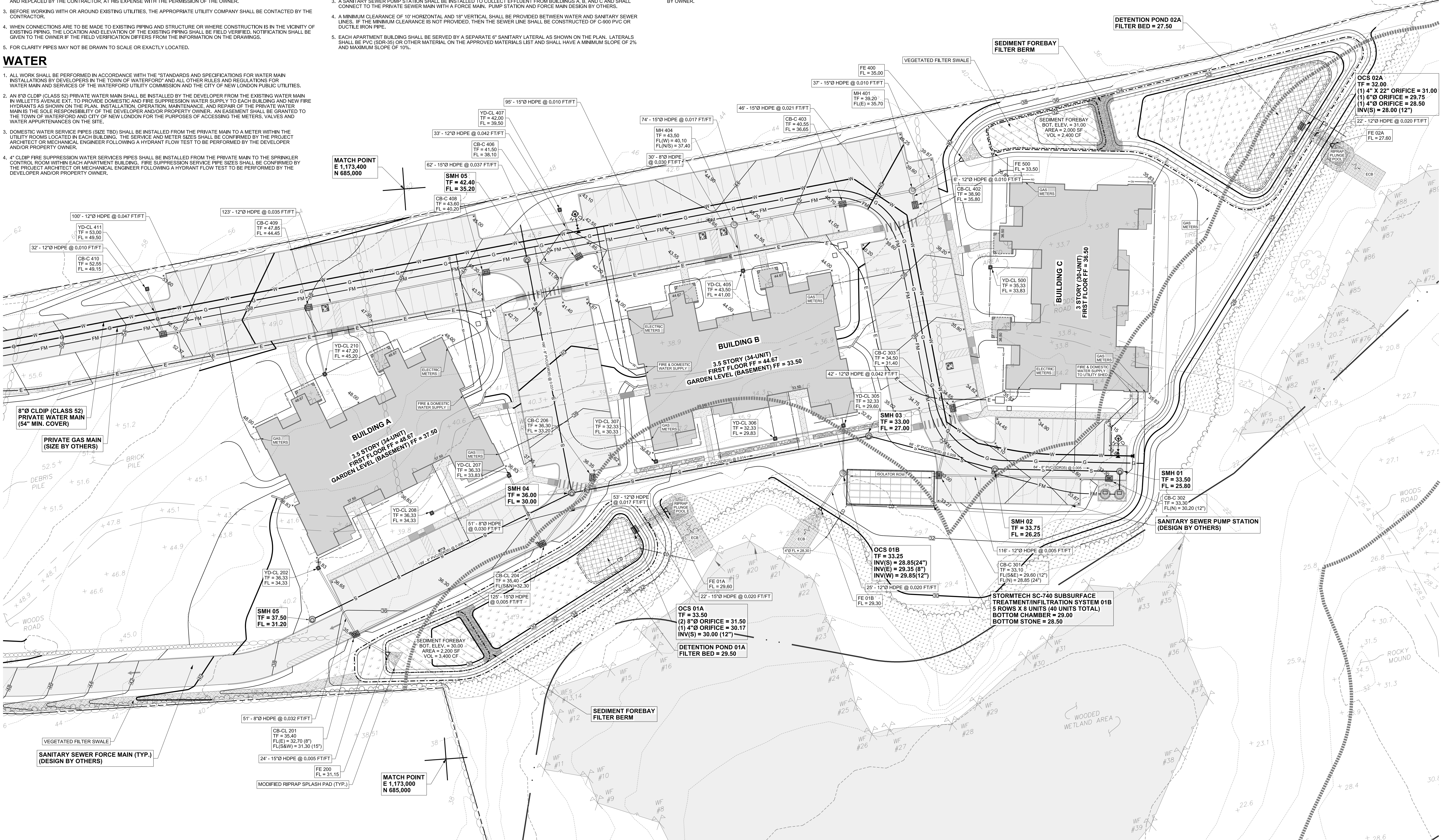
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR SEWER MAIN AND SERVICES OF THE WATERFORD UTILITY COMMISSION.
- AN 8" PVC (SDR-35) PRIVATE SEWER COLLECTION MAIN SHALL BE INSTALLED AS SHOWN ON THE PLANS AND SHALL CONNECT TO THE EXISTING SANITARY MANHOLE (SMH) #91 IN WILLETTS AVENUE.
- A SANITARY SEWER PUMP STATION SHALL BE INSTALLED TO COLLECT EFFLUENT FROM BUILDINGS A, B, AND C AND SHALL CONNECT TO THE PRIVATE SEWER MAIN WITH A FORCE MAIN, PUMP STATION AND FORCE MAIN DESIGN BY OTHERS.
- A MINIMUM CLEARANCE OF 10' HORIZONTAL AND 18" VERTICAL SHALL BE PROVIDED BETWEEN WATER AND SANITARY SEWER LINES. IF THE MINIMUM CLEARANCE IS NOT PROVIDED, THEN THE SEWER LINE SHALL BE CONSTRUCTED OF C-900 PVC OR DUCTILE IRON PIPE.
- EACH APARTMENT BUILDING SHALL BE SERVED BY A SEPARATE 6" SANITARY LATERAL AS SHOWN ON THE PLAN. LATERALS SHALL BE PVC (SDR-35) OR OTHER MATERIAL ON THE APPROVED MATERIALS LIST AND SHALL HAVE A MINIMUM SLOPE OF 2% AND MAXIMUM SLOPE OF 10%.

## ELECTRIC & TELECOMMUNICATIONS

- FINAL CONNECTION LOCATION, SIZE & TYPE OF CONDUIT, TRANSFORMERS, METERS & OTHER ELEMENTS TO SERVE THE BUILDINGS SHALL BE COORDINATED BETWEEN THE OWNER AND THE APPROPRIATE UTILITY COMPANY.
- ALL AREA LIGHTING SHOWN ON THE PLANS, INCLUDING POLE MOUNTED AREA LIGHTS, BUILDING MOUNTED LIGHTS AND SIGN SPOT LIGHTS SHALL BE SERVED BY A COMMON OWNERS PANEL WITH APPROPRIATE CONTROLS TO ENSURE PARKING AREAS, SIDEWALKS AND DRIVEWAYS ARE ADEQUATELY LIGHTED. PANEL & CONDUIT SIZE AND LOCATION TO BE DETERMINED BY OWNER.

## GAS

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR GAS SERVICE OF THE YANKEE GAS SERVICES COMPANY, THE TOWN AND APPLICABLE CODES.
- DESIGN & SIZING OF ALL NATURAL GAS VALVES, PIPING AND OTHER ELEMENTS TO BE PROVIDED BY OTHERS.
- GAS METERS SHALL BE INSTALLED IN THE GENERAL LOCATIONS SHOWN OR AS REQUIRED BY THE PROJECT ARCHITECT.



PROJECT NUMBER:

00096 - 001



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PROFESSIONAL SEAL

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PREPARED FOR  
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### GRADING, DRAINAGE & UTILITY PLAN - SOUTH

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### REVISION SUMMARY

DATE DESCRIPTION  
12/30/20 PER IWCC COMMENTS / PZC SUBMISSION

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11/18/20

REVISED

12/30/20

### SHEET

6 OF 14