



TOWN OF ORLEANS

19 SCHOOL ROAD ORLEANS MASSACHUSETTS 02653-3699
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BOARD OF
SELECTMEN
TOWN
ADMINISTRATOR

January 14, 2017

Board of Selectmen
Town Office Building
Orleans, MA 02653

Dear Board Members:

In accordance with Chapter 8, Section 5 of the Orleans Home Rule Charter, I am submitting the Capital Improvements Plan (CIP) for FY19 – FY23 and Capital Budget for FY18. The CIP is formatted to show what was "Adopted" at town meeting in May 2016 and what is now being "Budgeted" in the Capital Budget for FY18. Projects for consideration at town meeting in May 2017 are included in the CIP by fiscal year.

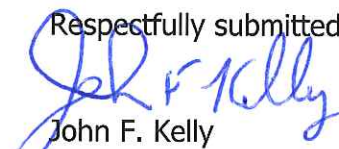
As presented, the CIP includes a number of changes since its adoption at town meeting in May 2016 which are noted on the Capital Budget summary page for information purposes. These include:

1. Projects that have been added include the Fire Station Roof Replacement (FY19) and Snow Library Roof Replacement (FY20);
2. Projects with a change in start dates include Replacement of Skaket Beach Administration Building (FY19 to FY20), Portanimitcut Bulkhead Replacement (FY19 to FY20), Town Cove Bulkhead Replacement (FY21 to FY22), and Treatment Plant Membrane Replacements (FY19 - FY21 to FY20 - FY22);
3. Projects and equipment that have been removed include Bulkhead Replacement Designs (FY19, FY20 and FY22), OES Heating & Ventilation Design (FY18), New Traffic Signal at Fire Station (FY18), Management Information Systems (FY18 - FY23), Replace Large Dump Truck (FY19) and Replace Front End Loader (FY22). All of these items are now included in the Building & Facilities or Motor Vehicle & Equipment Stabilization Fund schedules.

As required under the Charter, the Board must act on the CIP and Capital Budget within thirty days and submit them to the Finance Committee with or without amendment for its review and comment. A joint public hearing on the CIP and Capital Budget to be chaired by the Finance Committee is scheduled for February 17, 2017.

I look forward to working with the Board as we begin the review and approval process.

Respectfully submitted,


John F. Kelly
Town Administrator

**Capital Improvements Plan
FY19 - FY23**

| Project Descriptions | Adopted | Budgeted | Proposed | | | | |
|---|------------|------------|------------|------------|-----------|-----------|------------|
| | FY18 | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 |
| COMMUNITY PRESERVATION ACT | | | | | | | |
| Program Activity Funding | 232,800 | 232,800 | (1) | (1) | (1) | (1) | (1) |
| CWRMP IMPLEMENTATION (CF-27) (CF-28) | | | | | | | |
| Planning, Engineering & Adaptive Management Activities <i>(Funding TBD)</i> | 5,860,500 | 5,860,500 | 16,500,000 | 19,730,000 | 8,400,000 | 9,600,000 | 18,000,000 |
| Treatment & Disposal Site Investigations | | | | | | | |
| Non-Traditional Technologies Design, Demonstration & Implementation | | | | | | | |
| Wastewater Facilities Design | | | | | | | |
| Wastewater Facilities Construction | | | | | | | |
| Update of Amended CWMP | | | | | | | |
| Water Quality Monitoring, MEP Report & Updates | | | | | | | |
| Technical Oversight & Projects Management | | | | | | | |
| Tri-Town Septage Facility & Compost Shed Demolition <i>(Debt Exclusion)</i> | 1,535,000 | 1,400,000 | | | | | |
| DPW & NATURAL RESOURCES | | | | | | | |
| New Central Maintenance Garage and Facilities (CF-11) | | | | | | | |
| Construction <i>(Debt Exclusion)</i> | 13,590,000 | 13,590,000 | | | | | |
| Water Quality Drainage Improvements (NR-6)(NR-12) <i>(Stabilization Fund)</i> | 173,939 | 173,939 | 178,288 | 182,745 | 187,314 | 191,997 | 196,797 |
| Town Pavement Management Program (T-1)(T-7) <i>(Stabilization Fund)</i> | 347,899 | 347,899 | 356,597 | 365,512 | 374,650 | 384,016 | 393,617 |
| Water Department Asset Management Plan | | | | | | | |
| Replace Countryside Drive 6-inch Water Main w/8-inch <i>(Debt)</i> | | | | 11,000 | 115,000 | | |
| WTP Membrane Replacement (Rack 1) <i>(Water Reserves)</i> | | | | 362,000 | | | |
| WTP Membrane Replacement (Rack 2) <i>(Water Reserves)</i> | | | | | 362,000 | | |
| WTP Membrane Replacement (Rack 3) <i>(Water Reserves)</i> | | | | | | 362,000 | |
| Chemical Containment and HVAC Improvements <i>(Water Reserves)</i> | 320,000 | 320,000 | | | | | |
| Replace Beach Road 8-inch Water Main with 12-inch <i>(Debt)</i> | 2,445,000 | 2,445,000 | | | | | |
| Well No. 7 to WTP Raw Water Main Project <i>(Debt)</i> | | | 235,000 | 2,335,000 | | | |
| Replace Rock Harbor Road 6-inch Water Main w/8-inch <i>(Debt)</i> | | | | | | 72,000 | |
| Replace Skaket Beach Administration Building and Restrooms | | | | | | | |
| Construction <i>(Debt Exclusion)</i> | 350,000 | 0 | 315,000 | | | | |
| Nauset Beach Dune Restoration Project at Main Parking Lot | | | | | | | |
| Construction <i>(Debt Exclusion)</i> | | | 1,500,000 | | | | |

**Capital Improvements Plan
FY19 - FY23**

| Project Descriptions | Adopted | Budgeted | Proposed | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | FY18 | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 |
| DPW/NR Replace Streetsweeper (<i>Debt Exclusion</i>) | | | | | | | 275,000 |
| Fire Department Replace Pumper Truck (<i>Debt Exclusion</i>) | | | | | 675,000 | | |
| New Ambulances (<i>Ambulance Reserves</i>) | 300,000 | 300,000 | | | 330,000 | | |
| Water Department - Vehicles & Equipment (<i>Water Reserves</i>) | 150,000 | 150,000 | 46,000 | | 85,000 | 130,000 | |
| | | | | | | | |
| TOTALS | 26,936,738 | 26,646,338 | 20,875,885 | 38,090,357 | 11,687,164 | 14,647,438 | 19,923,314 |

| Proposed | | | | | |
|----------|------|------|------|------|------|
| FY18 | FY19 | FY20 | FY21 | FY22 | FY23 |

Proposed Annual Funding by Source:

| | | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Community Preservation Funds | 232,800 | | | | | | |
| Water Fees/Funds | 3,044,000 | 425,000 | 2,856,000 | 714,000 | 358,000 | 160,000 | |
| Ambulance Receipts | 300,000 | 0 | 0 | 330,000 | 0 | 0 | |
| CATV Fees | 17,900 | 17,900 | 17,900 | 17,900 | 17,900 | 17,900 | |
| Stabilization Fund - Veh & Equip (Prop. Tax) | 510,000 | 510,000 | 510,000 | 510,000 | 510,000 | 510,000 | |
| Stabilization Fund - Bldg & Facilities (Prop. Tax) | 350,000 | 350,000 | 350,000 | 350,000 | 350,000 | 350,000 | |
| Stabilization Fund - Pavement Mgmt. (Prop. Tax) | 347,899 | 356,597 | 365,512 | 374,650 | 384,016 | 393,617 | |
| Stabilization Fund - Water Quality Drainage (Prop. Tax) | 173,939 | 178,288 | 182,745 | 187,314 | 191,997 | 196,797 | |
| Wastewater Funding Sources (TBD) | 5,860,500 | 16,500,000 | 19,730,000 | 8,400,000 | 9,600,000 | 18,000,000 | |
| Debt Exclusions (Prop. Tax) | 15,688,700 | 2,415,000 | 13,252,500 | 675,000 | 2,042,500 | 275,000 | |
| Raise & Appropriate (Prop. Tax) | 120,600 | 123,100 | 125,700 | 128,300 | 131,025 | 20,000 | |
| Total | 26,646,338 | 20,875,885 | 37,390,357 | 11,687,164 | 13,585,438 | 19,923,314 | |

Notations: References to the Orleans Comprehensive Plan are shown after each project description in parenthesis and described in the addendum.

(1) Community Preservation Act program activities will be supported through the CPA surtax, state matching funds and available fund reserves.

(2) Town Building & Facilities Maintenance Program includes projects grouped by funding source - dedicated stabilization fund, cable television franchise fees, water reserves or raise and appropriate. A separate 7-year master plan of scheduled projects is maintained for review and approval by the Board of Selectman. The funding source for each group is shown in parenthesis.

(3) Town Vehicle & Equipment Replacement Program includes purchases grouped by funding source - dedicated stabilization fund, ambulance receipts, water reserves or debt exclusion. A separate 10-year master plan of scheduled replacements is maintained for review and approval by the Board of Selectmen. The funding source for each group is shown in parenthesis.

Date : January 14, 2017

**CAPITAL BUDGET
FY18**

| <u>PROJECT DESCRIPTION</u> | <u>AMOUNT</u> | <u>FUNDING SOURCE</u> |
|---|----------------------|------------------------------|
| COMMUNITY PRESERVATION ACT | | |
| Program Activity Funding | \$232,800 | CPA Funds |
| CWRMP IMPLEMENTATION | | |
| Planning, Engineering and Adaptive Management Activities | \$5,860,500 | Debt Exclusion |
| New Treatment & Disposal Site Investigations | | |
| Non-Traditional Technologies Demonstration Projects | | |
| Wastewater Facilities Design | | |
| Water Quality Monitoring, MEP Compliance & Project Baselines | | |
| Technical Oversight & Projects Management | | |
| Tri-Town Septage Treatment Facility & Compost Shed Demolition | 1,400,000 | Debt Exclusion |
| DPW & NATURAL RESOURCES | | |
| New Central Maintenance Garage Construction | \$13,590,000 | Debt Exclusion |
| Water Quality Drainage Improvements | \$173,939 | Stabilization Funds |
| Town Pavement Management Program | \$347,899 | Stabilization Funds |
| Water Dept. Chemical Containment & HVAC Improvements | \$320,000 | Water Reserves |
| Water Dept. Replace Beach Road 8-inch Water Main | \$2,445,000 | Debt |
| NAUSET REGIONAL SCHOOLS | | |
| 5-Year Capital Plan Project Funding | \$100,600 | Raise & Appropriate |
| MSBA CORE Project at High School - Feasibility & Schematic Design | \$173,700 | Debt Exclusion |
| ORLEANS ELEMENTARY SCHOOL | | |
| Heating & Ventilation System Improvements Design | \$525,000 | Debt Exclusion |
| TOWN BUILDING & FACILITIES MAINTENANCE PROGRAM | | |
| Building & Facilities Master Plan Projects | \$350,000 | Stabilization Funds |
| Media Operations | \$17,900 | CATV Fees |
| OES Technology Improvements | \$20,000 | Raise & Appropriate |
| Water Department | \$129,000 | Water Reserves |

**CAPITAL BUDGET
FY18**

| <u>PROJECT DESCRIPTION</u> | <u>AMOUNT</u> | <u>FUNDING SOURCE</u> |
|---|----------------------|------------------------------|
| TOWN VEHICLE & EQUIPMENT REPLACEMENT PROGRAM | | |
| General Fund Departments | \$510,000 | Stabilization Funds |
| Fire/Rescue Department Ambulance | \$300,000 | Ambulance Receipts |
| Water Department Backhoe | \$150,000 | Water Reserves |
| TOTAL | \$26,646,338 | |

Note: The following changes are being proposed to the Capital Improvements Plan since its adoption at Town Meeting in May 2016:

Projects Added: Fire Station Roof Replacement (FY19); Snow Library Roof Replacement (FY20)

Project Start Dates: Replace Skaket Beach Admin. Building (FY19 to FY20); Portanimicut Bulkhead Replacement (FY19 to FY20); Town Cove Bulkhead Replacement (FY21 to FY22); Treatment Plant Membrane Replacements (FY19 - FY21 to FY20 - FY22);

Projects Removed: Bulkhead Replacement Designs (FY19, FY20 and FY22), OES Heating & Ventilation Design (FY18), New Traffic Signal at Fire Station (FY18), Management Information Systems (FY18 - FY23), Replace Large Dump Truck (FY19) and Replace Front End Loader (FY22). All of these items are now included in the Building & Facilities or

Date: January 14, 2017

**FY18 - FY27 Motor Vehicle and Durable Equipment
Inventory and Replacement Schedule**

| DEPARTMENT AND DESCRIPTION | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 | FY27 |
|---|--------|---------|--------|--------|---------|---------|---------|---------|---------|---------|
| DPW & NATURAL RESOURCES | | | | | | | | | | |
| Highway | | | | | | | | | | |
| 08 Ford Ranger 2WD Pickup Truck (504) | 37,000 | | | | | | | | | |
| 08 Peterbilt 4WD Dump Truck (512) | | 150,000 | | | | | | | | |
| 15 John Deere 4WD Backhoe/Loader (541) | | | | | | | | | | |
| 15 Chevy 2500 4WD Pickup Truck (701) | | | | | | | | | | |
| 10 Ford Ranger 4WD Pickup Truck (501) | | | | 40,000 | | | | | | |
| 08 Chevy C5500 4WD Kodiak Tree Truck (801) | | | 95,000 | | | | | | | |
| 15 Ford 550 4WD Dump Truck (521) | | | | | | | | | | |
| 13 Int'l 4WD Dump Truck (511) | | | | | | | 170,000 | | | |
| 98 John Deere 4WD Tractor w/deck (542) | | | | 45,000 | | | | | | |
| 08 Chevy K2500 4WD Pickup Truck (502) | 45,000 | | | | | | | | | |
| 16 Chevy K2500 4WD Pickup Truck (503) | | | | | | | | | | |
| 06 Bobcat Skid Steer Loader (553) | | | | | | 50,000 | | | | |
| 98 Int'l w/Catch Basin Cleaner (513) | | | | | | | | | | 200,000 |
| 13 Int'l w/Sweeper (543) (Debt Exclusion) | | | | | | 275,000 | | | | |
| 13 Ford F550 4WD Dump Truck (522) | | | | | | | | 100,000 | | |
| 13 John Deere Tractor w/Boom Mower (545) | | | | | | | | | 130,000 | |
| 14 Dump Truck Cross Conveyor | | | | | | | | | | |
| 16 Terex R070T Skid Steer | | | | | | | | | | |
| 10 John Deere Loader (544) | | | | | 180,000 | | | | | |
| 05 Carlton Chipper | | | | | | | | | 8,000 | |
| 91 Eager Beaver Chipper | | | | | | | | | | |
| Ride on Roller/Compactor | | | | | | | | | | |
| Carlton Stump Grinder | | | | | | | | | | |
| 15 Backhoe Trailer | | | | | | | | | | |
| Asphalt Walk Behind Cutting Saw | | | | | | | | | | |
| Engine Computer Scanner | 1,200 | | | | | | | | | |
| New Department Wide Mobile Radio System | | 90,000 | | | | | | | | |
| Parks & Beaches | | | | | | | | | | |
| 11 Club Car ATV Diesel 4WD (Beach) | | | 20,000 | | | | | | | 24,000 |
| 13 Chevy K1500 4WD Pickup Truck (Beach) | | 35,000 | | | | | 40,000 | | | |
| 13 Club Car Diesel 4WD (Beach) | | | | 21,000 | | | | | | |
| 09 Chevy 2WD Stake Body Dump Truck (66) | 70,000 | | | | | | | | | |
| 16 Chevy K1500 4WD Pickup Truck (Beach #63) | | | | | 38,000 | | | | | |
| 15 Chevy K2500 4WD Pickup Truck (64) | | | | | | | | 45,000 | | |
| 05 Chevy K3500 4WD Dump Truck (65) | 75,000 | | | | | | | | | |
| 13 Grasshopper Riding Mower | | | | | 27,000 | | | | | |
| 09 Skid Steer Uniloaders | | | | | 60,000 | | | | | |
| 08 Club Car ATV Diesel 4WD (Beach) | 19,500 | | | | | | | 23,000 | | |
| 08 Ford Ranger 2WD Pickup w/cap | | 37,000 | | | | | | | | |
| 15 Club Car diesel 4WD (Beach) (STM 2015) | | | | | | 23,000 | | | | |
| 16 Grasshopper Mower | | | | | | | | | | 17,000 |
| 04 Bobcat Mower | | | | | | | | | | |
| 14 Kubota Riding Mower | 5,000 | | | | | | | | 25,000 | |
| 04 Ford Explorer | | | 30,000 | | | | | | | |
| 16 Chevy K1500 4WD Pickup Truck (Beach #68) | | | | | | | | | | |

**FY18 - FY27 Motor Vehicle and Durable Equipment
Inventory and Replacement Schedule**

| DEPARTMENT AND DESCRIPTION | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 | FY27 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Aera-Vator 60" Model | 6,000 | | | | | | | | | |
| Portable Radios | 1,600 | | | | | | | | | |
| Beach Wheelchair and Paddleboards | 5,500 | | | | | | | | | |
| | | | | | | | | | | |
| Harbormaster | | | | | | | | | | |
| 12 Chevy K2500 4WD Pickup | | 42,000 | | | | | | | | |
| 14 200 hp Mercury Outboard Engine | | | | | 18,000 | | | | | |
| 04 50 hp Mercury Outboard Engine | | | | | | 8,000 | | | | |
| 14 EZ Loader Boat Trailer | | | | | | | 4,000 | | | |
| Channel Markers | 3,600 | | | | | | | | | |
| 04 Shorelander Boat Trailer | | | | | | | | | | 4,500 |
| 16 Privateer 21' Patrol Boat | | | | | | | | | | |
| 16 Shorelander Boat Trailer | | | | | | | | | | |
| 09 200 hp Mercury Outboard Engine | | | | | | | | | | |
| 16 Chevy K2500 4WD Pickup Truck | | | | | | | | | | |
| 01 Privateer 21' Patrol Boat | | | | | | | | | | |
| 03 Zodiac 16' Inflatable Rescue Boat | | | | | | | | | | 20,000 |
| | | | | | | | | | | |
| Transfer Station | | | | | | | | | | |
| 07 Stetco Trailer | | 61,000 | | | | | | | | |
| 07 Stetco Trailer | | | 63,000 | | | | | | | |
| 07 Stetco Trailer | | | | 65,000 | | | | | | |
| 11 Summitt Trailer | | | | | 67,000 | | | | | |
| 15 Rolloff Container Trailer | | | | | | | | | | |
| 08 Chevy K3500 4WD Dump Truck (901) | | | 75,000 | | | | | | | |
| 15 John Deere Front End Loader (912) | | | | | | | | | | |
| 00 Mack Tractor | | | | | | | | | | |
| 92 International Tractor | | | | | | | | | | |
| Used 6-wheel yard horse | | | | | | | | | | |
| | | | | | | | | | | |
| SUB-TOTAL | 269,400 | 415,000 | 283,000 | 171,000 | 390,000 | 356,000 | 214,000 | 168,000 | 163,000 | 265,500 |
| TOWN HALL | | | | | | | | | | |
| 11 Ford Focus Sedan | | | | 23,000 | | | | | | |
| 08 Ford Focus Sedan | | 22,000 | | | | | | | | |
| 14 Ford F150 4WD Pickup | | | | | | | 35,000 | | | |
| 12 Ford Focus Sedan (500) | | | | | 30,000 | | | | | |
| MIS Computer Equipment and Services | 33,000 | 33,000 | 33,000 | 33,000 | 33,000 | 33,000 | 33,000 | 33,000 | 33,000 | 33,000 |
| SUB-TOTAL | 33,000 | 55,000 | 33,000 | 56,000 | 63,000 | 33,000 | 68,000 | 33,000 | 33,000 | 33,000 |
| | | | | | | | | | | |
| POLICE DEPARTMENT | | | | | | | | | | |
| 13 Ford Taurus Unmarked Car (Chief)(M1) | | | | | 46,000 | | | | | 59,000 |
| 15 Ford Taurus Unmarked Car (Deputy)(M2) | | | | | | 48,000 | | 54,000 | | |
| 14 Ford Taurus Patrol Car (Supervisor)(M3) | 38,000 | | | 44,000 | | | | 54,000 | | |
| 13 Ford Taurus Patrol Car (M4) | 38,000 | | | | 46,000 | | 51,000 | | | |
| 17 Ford Explorer 4WD Unmarked (Detective)(M5) | | | | | | | | | | 61,000 |
| 13 Ford Explorer 4WD (SRO)(M6) | | 42,000 | | | | | | | | |
| 17 Ford Explorer 4WD Patrol Vehicle (Supervisor)(M7) | | | | 46,000 | | | | | 59,000 | |
| 14 Ford Taurus Patrol Car (M8) | | | 42,000 | | | | 51,000 | | | |

**FY18 - FY27 Motor Vehicle and Durable Equipment
Inventory and Replacement Schedule**

| DEPARTMENT AND DESCRIPTION | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 | FY27 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 11 Ford Explorer 4WD (Animal Control)(M9) | | | 44,000 | | | | | | | |
| 14 Ford Taurus Patrol Car (M10) | | 40,000 | | | | 48,000 | | | 57,000 | |
| 02 Chevy 2500 4WD Pickup Truck (Support)(M11) | | | | | | | | | | |
| Use of Force Equipment | 17,000 | | | | | 18,000 | | | | 19,000 |
| Portable Radios | 8,500 | 8,600 | 8,700 | 8,800 | 8,900 | 9,000 | 9,100 | 9,200 | 9,300 | 9,400 |
| Mobile Data Terminals | 6,800 | 13,700 | 13,800 | 13,900 | 14,000 | 14,100 | 14,200 | 14,300 | 14,400 | 14,500 |
| SUB-TOTAL | 108,300 | 104,300 | 108,500 | 112,700 | 114,900 | 137,100 | 125,300 | 131,500 | 139,700 | 162,900 |
| FIRE & RESCUE DEPARTMENT | | | | | | | | | | |
| 08 Ford F550 Brush Truck 4WD (Chasis Only)(169) | | | | 55,000 | | | | | | |
| 93 Int'l 4400 HazMat/Dive/Rescue Truck (610) | | | | | | | | | | |
| 05 Chevy 4WD Pickup Truck (Deputy)(179) | 42,000 | | | | | | | | | |
| 10 Ford Edge AWD (Fire Inspector)(166) | | 37,000 | | | | | | | | |
| 12 Int'l 4400 SBA LP Ambulance (173) (Ambulance Receipts) | 300,000 | | | | | | | | | 390,000 |
| 14 Int'l 4400 SBA LP Ambulance (174) (Ambulance Receipts) | | | | 330,000 | | | | | | |
| 10 Ford F350 4WD Utility Pickup Truck (170) | | | 60,000 | | | | | | | |
| 13 Chevy Tahoe 4WD (Chief)(171) | | | | | | | 59,000 | | | |
| 15 Int'l 4400 SBA LP Ambulance (172) (Ambulance Receipts) | | | | | | | 360,000 | | | |
| 11 Sutphen Pumper Truck (175) | | | | | | | | | | |
| 08 Ladder Truck Retrofit (176) | | | | | | 200,000 | | | | |
| 01 KME Excel Pumper Truck (177) (Debt Exclusion) | | | | 675,000 | | | | | | |
| 08 Floaton 25' Boat (601) | | | | | | | | | | |
| 98 Floaton 21' Boat (602) | | | | | | | | | | |
| 10 Portable Small Boat (603) | | | | | | | | | | |
| 11 Kawasaki Mule (604) | 20,000 | | | | | | | | | |
| 10 Mobile Sign Trailer | | | | | | | | | | |
| Replace Striker Ambulance Stretcher | | | | | | | | | | |
| Hose Rolling Machine for 5" LDH | | | | | | | | | | |
| CAD System for Department Vehicles | | | | | | | | | | |
| Replace Scott Air Packs | | | | | | | | | | |
| Turnout Gear Equipment | 26,000 | | | 27,000 | | | 28,000 | | | 29,000 |
| Portable Radios | 14,000 | 14,100 | 14,200 | 14,300 | 14,400 | 14,500 | 14,600 | 14,700 | 14,800 | 14,900 |
| Other Equipment (hoses, tools, defibulators, etc.) | 12,000 | 12,200 | 12,400 | 12,600 | 12,800 | 13,000 | 13,200 | 13,400 | 13,600 | 13,800 |
| Traffic Signal on Eldredge at Station Entrance | 135,000 | | | | | | | | | |
| SUB-TOTAL | 549,000 | 63,300 | 86,600 | 1,113,900 | 27,200 | 227,500 | 474,800 | 28,100 | 28,400 | 447,700 |
| WATER DEPARTMENT | | | | | | | | | | |
| 00 Case 590 4WD SL Backhoe (1678) | 135,000 | | | | | | | | | |
| 4WD Mini-Excavator and Trailer | | | | | | | | | 75,000 | |
| 07 Ford F250 4WD Utility Truck (1672) | | 46,000 | | | | | | | | |
| 12 Ford F350 4WD Dump Truck (1679) | | | | | 130,000 | | | | | |
| 13 Ford F250 4WD Pickup Truck (1673) | | | | | | 48,000 | | | | |
| 05 Ford F250 4WD Pickup Truck (1675) | | | | | | | | 48,000 | | |
| 06 Sullivan Air Compressor | | | | | | 25,000 | | | | |
| 07 Ford F550 4WD Dump Truck (1677) | 15,000 | | | 85,000 | | | | | | |
| 08 Ford Ranger 4WD Pickup Truck (1676) | | | | | | | | | | |
| 08 Interstate Trailer | | | | | | | 15,000 | | | |
| 09 Scag Mower | | | 10,000 | | | | | | | |

**FY18 - FY27 Motor Vehicle and Durable Equipment
Inventory and Replacement Schedule**

| DEPARTMENT AND DESCRIPTION | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 | FY27 |
|----------------------------|------------------|----------------|----------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| SUB-TOTAL | 150,000 | 46,000 | 10,000 | 85,000 | 130,000 | 73,000 | 15,000 | 48,000 | 75,000 | 0 |
| GRAND TOTAL | 1,109,700 | 683,600 | 521,100 | 1,538,600 | 725,100 | 826,600 | 897,100 | 408,600 | 439,100 | 909,100 |
| Water Reserves | (150,000) | (46,000) | (10,000) | (85,000) | (130,000) | (73,000) | (15,000) | (48,000) | (75,000) | |
| Ambulance Reserves | (300,000) | | | (330,000) | | | (360,000) | | | (390,000) |
| Debt Exclusions | | | | (675,000) | | (275,000) | | | | |
| Stabilization Fund Total | 659,700 | 637,600 | 511,100 | 448,600 | 595,100 | 478,600 | 522,100 | 360,600 | 364,100 | 519,100 |
| Annual Appropriation | 515,000 | 515,000 | 515,000 | 515,000 | 515,000 | 515,000 | 515,000 | 515,000 | 515,000 | 515,000 |
| Difference Over/(Under) | 144,700 | 122,600 | (3,900) | (66,400) | 80,100 | (36,400) | 7,100 | (154,400) | (150,900) | 4,100 |

| | |
|-------------------------------------|-----------|
| 10 year Stabilization Fund Total | 5,096,600 |
| Annual Appropriation - Level Funded | 510,000 |

| | |
|---|-----------|
| Annual Appropriation - Allocation by Department | |
| Department of Public Works 10 year total = 47.48% | 2,419,900 |
| Department of Public Works - Annual Allocation | 242,150 |
| | |
| Police Department 10 year total = 24.43% | 1,245,200 |
| Police Department - Annual Allocation | 124,600 |
| | |
| Fire Department 10 year total = 19.45% | 991,500 |
| Fire Department - Annual Allocation | 99,200 |
| | |
| Town Hall 10 year total = 8.63% | 440,000 |
| Town Hall - Annual Allocation | 44,050 |

Town Building & Facilities Master Plan Stabilization Fund Schedule FY18 - FY24

| | | | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 |
|----|---------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| # | COA | Project Description | | | | | | | |
| 1 | COA | Replace Activity Room AC Units | 16,000 | | | | | | |
| 2 | COA | Replace Attic Furnaces | 17,000 | | | | | | |
| 3 | COA | Replace Outdoor Condensers | 15,000 | | | | | | |
| 4 | COA | Replace Mechanical Room Furnace | | 10,000 | | | | | |
| 5 | COA | Replace Hot Water Heaters | | 10,000 | | | | | |
| 6 | COA | Replace Hot Water Boiler | | | 12,000 | | | | |
| 7 | COA | Exterior Trim Replacement | 6,000 | | | 10,000 | | | |
| 8 | COA | Carpeting | 15,000 | | | 10,000 | | | |
| 9 | COA | Interior Renovations | | 20,000 | | | 25,000 | 25,000 | |
| 10 | COA | Parking lot and Exterior Lighting Improvements | | | | | 30,000 | | |
| 11 | COA | Parking Lot Replacement and Roadway Entrance Improvements | | | | | 60,000 | | |
| 12 | COA | Roof - Design | | | 15,000 | | | | |
| 13 | COA | Replace Roof | | | | | 75,000 | 75,000 | |
| 14 | COA | Septic System Pump Replacment | | | 20,000 | | | | |
| 15 | COA | Courtyard Improvements | | | | 10,000 | | | |
| 16 | COA | Replacement Kitchen Equipment | | | | | | | 80,000 |
| 17 | COA | Subtotal for Council on Aging = | 69,000 | 40,000 | 47,000 | 30,000 | 190,000 | 100,000 | 80,000 |
| 18 | | | | | | | | | |
| 19 | DPW-NR | Project Description | | | | | | | |
| 20 | DPW-NR | Nauset Beach - Facility Retreat Design | 30,000 | | | | | | |
| 21 | DPW-NR | Nauset Beach - ORV Trail Maintenance | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| 22 | DPW-NR | Skaket Beach - Admin. And Restroom Facility Design | 30,000 | | | | | | |
| 23 | DPW-NR | Skaket Beach - Sand Replenishment Permit'g & Construction | 9,000 | 9,000 | 19,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| 24 | DPW-NR | Skaket Beach - Septic System Pump Replacment | | | | | | | 20,000 |
| 25 | DPW-NR | Pilgrim Lake - Restroom Repairs - Site Accessibility Improvements | | 6,000 | | | | | |
| 26 | DPW-NR | Pilgrim Lake - Restroom Repairs - Septic Pump Replacment | | | 5,000 | | | | |
| 27 | DPW-NR | Pilgrim Lake - Restroom Repairs - Arch'l Mods for Accessibility | | 2,000 | | | | | |
| 28 | DPW-NR | Pilgrim Lake - Restroom Repairs - Structure Upgrades | | | | | | 35,000 | |
| 29 | DPW-NR | Skateboard Park - Attendant Shed and Structure Upgrades | | | | | | 10,000 | |
| 30 | DPW-NR | Town Landings - Float Replacement | 58,000 | | | | | | |
| 31 | DPW-NR | Town Landings - Structural Evaluation | 25,000 | | | | | | |
| 32 | DPW-NR | Town Landing - Repairs to Access Facilities | | | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| 33 | DPW-NR | Town Landing - Portanimitcut Road Ramp Design & Permit'g | | 80,000 | | | | | |
| 34 | DPW-NR | Town Landing - Town Cove (Goose Hummock) Design & Permitting | | | | 80,000 | | | |
| 35 | DPW-NR | Town Landing - Rock Harbor Comm. Bulkhead Design & Permitting | | | | | | 100,000 | 100,000 |
| 36 | DPW-NR | Fields and Playgrounds - OES Structure and Ball Court Upkeep | 2,000 | 2,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| 37 | DPW-NR | Fields and Playgrounds - Eldredge Parkway Tennis Wall Repairs | 2,000 | | 8,000 | | | | |
| 38 | DPW-NR | Fields and Playgrounds - Tennis Court Repairs | | | 20,000 | | | | |
| 39 | DPW-NR | Fields and Playgrounds - OES Irrigation & Recreation Sheds - Repairs | | | 13,000 | | | | |
| 40 | DPW-NR | Wildflower Lane Seasonal Housing - Septic System Pump Replacment | | 5,000 | | | | | |
| 41 | DPW-NR | 223 Beach Road Seasonal Housing - Interior Renovations | | | | | 10,000 | | |
| 42 | DPW-NR | Windmill - Repairs - Roofing, Siding and Painting | | | | | | 30,000 | 30,000 |
| 43 | | Subtotal for DPW - NR = | 166,000 | 114,000 | 100,000 | 135,000 | 65,000 | 230,000 | 205,000 |
| 44 | | | | | | | | | |

Town Building & Facilities Master Plan Stabilization Fund Schedule FY18 - FY24

| | | | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 |
|----|------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 45 | Fire | Project Description | | | | | | | |
| 46 | Fire | Structure and Roof Repairs - Design | | 40,000 | | | | | |
| 47 | Fire | Replacement of HVAC Equipment | | | | 30,000 | 30,000 | | |
| 48 | Fire | Structure and Roof Repairs - Misc. Repairs | | | | | | | |
| 49 | Fire | Comprehensive Interior Renovations | | | 90,000 | 110,000 | 50,000 | | |
| 50 | Fire | Parking Lot Repairs | | | | | | | 40,000 |
| 51 | Fire | Subtotal for Fire = | - | 40,000 | 90,000 | 140,000 | 80,000 | - | 40,000 |
| 52 | | | | | | | | | |
| 53 | Library | Project Description | | | | | | | |
| 54 | Library | Carpet Replacement | | 13,000 | | | | | |
| 55 | Library | Roof Repair - Design | | 40,000 | | | | | |
| 56 | Library | Irrigation Pump and Controls Replacement | | | 10,000 | | | | |
| 57 | Library | Septic System Pump Replacement | | | | | | | 20,000 |
| 58 | Library | Subtotal for Library = | - | 53,000 | 10,000 | - | - | - | 20,000 |
| 59 | | | | | | | | | |
| 60 | OES | Project Description | | | | | | | |
| 61 | OES | Heating and Ventilation Systems - Design | 50,000 | | | | | | |
| 62 | OES | Repair Library Cupola | 10,000 | | | | | | |
| 63 | OES | Paint Interior/Exterior and Replace Trim | 20,000 | 20,000 | 20,000 | | | | |
| 64 | OES | Replace front sidewalk for accessibility compliance | | 35,000 | | | | | |
| 65 | OES | Replace Flooring | | 10,000 | 10,000 | 5,000 | 5,000 | | |
| 66 | OES | Subtotal for OES = | 80,000 | 65,000 | 30,000 | 5,000 | 5,000 | - | - |
| 67 | | | | | | | | | |
| 68 | Town Hall | Project Description | | | | | | | |
| 69 | Town Hall | Safety and Security Improvements - Feasibility Study | | | | | | | |
| 70 | Town Hall | Safety and Security Improvements | 25,000 | 25,000 | | | | | |
| 71 | Town Hall | Carpet Replacement | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | | |
| 72 | Town Hall | Replacement of Front Entryway Doors and Closers | | | 10,000 | | | | |
| 73 | Town Hall | Replacement of Exterior Trim | | 3,000 | | 5,000 | | | |
| 74 | Town Hall | Septic System Pump Replacement | | | 18,000 | | | | |
| 75 | Town Hall | Parking Lot Expansion | | | 35,000 | | | | |
| 76 | Town Hall | Exterior Painting | | | | 25,000 | | | |
| 77 | Town Hall | Interior Painting | | | | | | 20,000 | 5,000 |
| 78 | Town Hall | Subtotal for Town Hall = | 35,000 | 38,000 | 73,000 | 40,000 | 10,000 | 20,000 | 5,000 |
| 79 | | | | | | | | | |
| 80 | | Grand Total = | 350,000 | 350,000 | 350,000 | 350,000 | 350,000 | 350,000 | 350,000 |

NON-STABILIZATION FUND EQUIPMENT/FACILITIES

FY18 - FY22

| DEPARTMENT AND DESCRIPTION | FY18 | FY19 | FY20 | FY21 | FY22 |
|--|----------------|----------------|----------------|----------------|----------------|
| MEDIA OPERATIONS & MGMT INFO SYSTEMS | | | | | |
| Broadcast Equipment <i>(CATV Fees)</i> | 17,900 | 17,900 | 17,900 | 17,900 | 17,900 |
| | | | | | |
| ORLEANS ELEMENTARY SCHOOL | | | | | |
| Technology Improvements <i>(Raise & Appropriate)</i> | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| | | | | | |
| WATER DEPARTMENT <i>(Water Reserves)</i> | | | | | |
| Repairs to Pump Stations <i>(Well Cleaning)</i> | 15,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| Replace Undersized Water Mains | 15,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| Replace Water Meters | 89,000 | 94,000 | 98,000 | 102,000 | 106,000 |
| Building Repairs/Maintenance <i>(Pump Stations)</i> | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| Sub-Total | 129,000 | 144,000 | 148,000 | 152,000 | 156,000 |
| | | | | | |
| Grand Total | 166,900 | 181,900 | 185,900 | 189,900 | 193,900 |

Date: January 14, 2017

FY19 PROJECT DESCRIPTIONS

COMMUNITY PRESERVATION ACT – PROGRAM ACTIVITY FUNDING

This is an annual program that for CPA activities that are supported through the 3% CPA surtax, state matching funds and available fund reserves. As required under the CPA, a minimum of 10% of the Town's annual proceeds have to be allocated to each of the three primary purposes: open space, affordable housing and historic preservation. Town Meeting approval is necessary for all Community Preservation Committee recommendations for funding.

| | |
|----------------------------|--------------------------|
| Total Project Funding: | \$232,800 |
| Method of Financing: | Available Funds (CPA) |
| Recommended Schedule: | Open |
| Estimated Annual Cost O/M: | N/A – Dependent upon use |

CWRMP IMPLEMENTATION – PLANNING, ENGINEERING & ADAPTIVE MANAGEMENT

The Orleans Water Quality Advisory Panel, appointed by the Board of Selectmen, reached agreement on a set of key elements of an Amended Water Quality Management Plan and associated Adaptive Management Plan for the Town. This Agreement includes and requires successful completion of a number of steps to resolve uncertainties and confirm key elements, such as treatment and disposal site suitability and availability, development of demonstration sites for non-traditional technologies, and further work to find and equitable distribution of costs necessary to the development of an acceptable and executable engineering plan that adheres to key elements. In order to move the Amended Water Quality Plan and associated Adaptive Management Plan process forward, the Board of Selectmen proposes to fund the following tasks in FY19:

1. Planning and Engineering (\$): NT Technologies – Continued Design and Implementation; Construction and Replacement – Downtown WWTF, Collection System, Effluent Disposal; Regulatory Coordination; and Implementation of Amended CWMP.
2. Adaptive Management Implementation (\$): Water Quality Monitoring for MEP compliance & Project Baselines; Continued MEP Model & Report Updates; Namskaket & Little Namskaket Adaptive Plan Implementation; Stormwater & Fertilizer Management;; Nauset Estuary Increased Monitoring; and Pond Nutrient Management Plan Implementation.
3. Program Management (\$): Technical Oversight & Projects Management; Public Engagement Coordination; Financial Modeling and Analysis; and Regulatory Coordination.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$16,500,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$998,250 |

DPW & NATURAL RESOURCES – WATER QUALITY DRAINAGE IMPROVEMENTS

This is an annual appropriation for the design and construction of improvements to the town's drainage infrastructure systems to address water quality issues resulting from storm water runoff that adversely affects the health of the various town coastal embayments and ponds, along with the town's fresh water bodies. Addressing these drainage issues will bring the town into compliance with US EPA Storm Water Quality Permits and Mass. DEP Water Quality requirements. Various state and federal agencies offer limited grant funding to address storm

water issues. Annual funding for water quality drainage improvements will be based on a proposed project schedule.

| | |
|----------------------------|---------------------|
| Total Estimated Cost: | \$178,288 |
| Method of Financing: | Stabilization Funds |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | N/A |

DPW & NATURAL RESOURCES – TOWN PAVEMENT MANAGEMENT PROGRAM

This is an annual appropriation for the local share of the town's pavement management program to repair, resurface, and reconstruct town roadways. The town currently maintains approximately 56 miles of public roadways. Also included under this program is work related to roadway drainage and sidewalk projects. Over the past several years the town has compiled an inventory of the condition of all our roadways in an effort to address, on a priority basis, the long term maintenance needs. Local funding for laid out public roads is also supplemented by State Aid Chapter 90 funds, and the FY17 apportionment was \$290,140. Annual funding for roadway and drainage projects will be based on a proposed project schedule.

| | |
|----------------------------|---------------------|
| Total Estimated Cost: | \$356,597 |
| Method of Financing: | Stabilization Funds |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | N/A |

DPW & NATURAL RESOURCES – WATER DEPT. WELL NO. 7 TO WTP DESIGN

This project will incorporate well #7 into the water treatment plant by extending a water main from Quanset Road to the plant. This will improve reliability during peak summer demand periods and deliver a high quality product to consumers. Well #7 currently has an increasing iron problem and even though it is our largest single source, it is only used during peak summer demand or emergencies because of the water quality.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$235,000 |
| Method of Financing: | Bonding (25 years) |
| Recommended Schedule: | 6 Months |
| Estimated Annual Cost O/M: | \$5,000 |
| Average Annual P&I | \$12,925 |

DPW & NATURAL RESOURCES – REPLACE SKAKET BEACH ADMIN & RESTROOMS

This project involves the demolition, removal and replacement of the existing administration building and restrooms at Skaket Beach. A new administration building would be constructed based on the selected option that meets current building codes and has ADA compliant restroom facilities.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$315,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 9 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$24,019 |

DPW & NATURAL RESOURCES – NAUSET BEACH DUNE RESTORATION

This project will fund the dune restoration project at the main parking lot for Nauset Beach in accordance with the Woods Hole Group's Outer Beach Management Plan recommendations in November 2015. Due to the accelerating rate of erosion and rising sea levels, it is estimated

that the existing dune that protects the town's 900 parking lot will be washed away within 5 years if the town takes no action. As part of the recommended phased retreat, the town would undertake a dune restoration project that would bring in sand to bolster the back side of the existing dune, remove the first row of parking and pavement from the lot, plant beach grass, install sand fencing, and demolish the administration/bathrooms and snack bar buildings. The buildings would be replaced with mobile facilities beginning in the summer of 2020.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$1,500,000 |
| Method of Financing: | Bonding (10 years) |
| Recommended Schedule: | 8 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$191,250 |

FIRE/RESCUE DEPARTMENT ROOF REPLACEMENT

This project will fund the replacement of the fire station roof that was installed with the station was originally constructed back in 1987.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$300,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 3 Months |
| Estimated Annual Cost O/M: | N/A |
| Average Annual P&I | \$22,875 |

NAUSET REGIONAL SCHOOLS – CAPITAL PLAN PROJECT FUNDING

This items covers Orleans share of the annual capital plan project costs that are undertaken by the Nauset Regional Schools as part of their ongoing responsibilities for the maintenance and repairs of the middle school, high school and administration building facilities. Under the intermunicipal agreement for the regional school district, Orleans FY17 assessment is 19.85% of the total based on the student enrollments on October 1, 2015.

| | |
|----------------------------|---------------------|
| Total Estimated Cost: | \$103,100 |
| Method of Financing: | Raise & Appropriate |
| Recommended Schedule: | TBD |
| Estimated Annual Cost O/M: | N/A |

ORLEANS ELEMENTARY SCHOOL – MSBA CORE PROJECT STUDY & DESIGN

This project would fund a feasibility study and schematic design necessary to participate in the MSBA CORE program to address the complete replacement of the plumbing and fixtures in the restrooms and classrooms in the original building; replacing the rubber membrane roof; replacing the stage accessibility ramp/lift; sound absorption panels in the K-3 wing; and interior lighting occupancy sensors, signage and access to the playfields. The scope of work needed is outlined in the Capital Asset Assessment report by Habeeb & Associates Architects dated on October 21, 2013.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$250,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 6 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$19,063 |

TOWN BUILDING & FACILITIES MAINTENANCE PROGRAM

This is an annual program that includes the various building and facilities maintenance projects scheduled each year to be funded through stabilization funds, water reserves, cable television franchise fees, or general tax revenues. The goal of including a summary of these projects in the CIP is to provide a more complete picture of the proposed work each year in all of the town buildings and facilities that is capital rather than routine in nature. A copy of the two schedules that are maintained for this program are included for further reference.

| | |
|-----------------------|--------------------------------------|
| Total Estimated Cost: | \$531,000 |
| Method of Financing: | Reserves, Stabilization, R&A or CATV |
| Recommended Schedule: | 12 Months |

TOWN VEHICLE & EQUIPMENT REPLACEMENT PROGRAM

This is an annual program that includes the various motor vehicle and durable equipment proposed to be replaced each year with funding provided through the use of stabilization funds, water reserves, ambulance receipts or debt service. The goal of including a replacement program summary in the CIP is to provide a more complete picture of the overall capital spending each year. A copy of the 10-year schedule is included for further reference.

| | |
|-----------------------|-------------------------------------|
| Total Estimated Cost: | \$960,000 |
| Method of Financing: | Reserves, Stabilization, or Bonding |
| Recommended Schedule: | 12 Months |

FY20 PROJECT DESCRIPTIONS

CWRMP IMPLEMENTATION – PLANNING, ENGINEERING & ADAPTIVE MANAGEMENT

The Orleans Water Quality Advisory Panel, appointed by the Board of Selectmen, reached agreement on a set of key elements of an Amended Water Quality Management Plan and associated Adaptive Management Plan for the Town. This Agreement includes and requires successful completion of a number of steps to resolve uncertainties and confirm key elements, such as treatment and disposal site suitability and availability, development of demonstration sites for non-traditional technologies, and further work to find and equitable distribution of costs necessary to the development of an acceptable and executable engineering plan that adheres to key elements. In order to move the Amended Water Quality Plan and associated Adaptive Management Plan process forward, the Board of Selectmen proposes to fund the following tasks in FY20:

1. Planning and Engineering (\$): Design - WWTF, Collection System, Effluent Disposal and NT Technologies; Construction and Replacement - WWTF, Collection System, Effluent Disposal and NT Technologies; Regulatory Coordination; and Update of Amended CWMP.
2. Adaptive Management Implementation (\$): Water Quality Monitoring for MEP compliance & Project Baselines; MEP Study & Report Updates; Namskaket & Little Namskaket Adaptive Plans; Stormwater & Fertilizer Management; and Cedar Pond & Rock Harbor Creek Resolution Plus Cedar Pond Single EIR; Nauset Estuary Increased Monitoring; and Pond Nutrient Study.
3. Program Management (\$): Technical Oversight & Projects Management; Public Engagement Coordination; Financial Modeling and Analysis; and Regulatory Coordination.

| | |
|-----------------------|--------------------|
| Total Estimated Cost: | \$19,730,000 |
| Method of Financing: | Bonding (20 years) |

| | |
|----------------------------|-------------------|
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$1,193,665 |

DPW & NATURAL RESOURCES – WATER DEPT. COUNTRY LANE WATER MAIN

This project will fund the engineering design to replace a 6-inch water main with an 8-inch main to improve fire flows in East Orleans as recommended in the 20-year Asset Management Plan prepared for the Town in 2014. The project will be designed and bid so that the results can be presented to the Town Meeting in May 2019.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$11,000 |
| Method of Financing: | Bonding (25 years) |
| Recommended Schedule: | 6 Months |
| Estimated Annual Cost O/M: | \$2,500 |
| Average Annual P&I | \$605 |

DPW & NATURAL RESOURCES – WATER DEPT. WTP FILTER MEMBRANE REPLACEMENT

This item would replace rack #1 at the water treatment plant. The membranes were supplied with a 10 year performance warranty and need to be replaced. As the heart of the treatment process their replacement must be planned for and the supplier (Pall Corp.) and other experienced professionals advise planning for the replacement as the warranty expires. One of three racks would be replaced in three successive years beginning in FY20.

| | |
|----------------------------|----------------|
| Total Estimated Cost: | \$362,000 |
| Method of Financing: | Water Reserves |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | \$50,000 |

DPW & NATURAL RESOURCES – WATER DEPT. WELL NO. 7 TO WTP CONSTRUCTION

This project will incorporate well #7 into the water treatment plant by extending a water main from Quanset Road to the plant. This will improve reliability during peak summer demand periods and deliver a high quality product to consumers. Well #7 currently has an increasing iron problem and even though it is our largest single source, it is only used during peak summer demand or emergencies because of the water quality.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$2,335,000 |
| Method of Financing: | Bonding (25 years) |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | \$5,000 |
| Average Annual P&I | \$128,425 |

DPW & NATURAL RESOURCES – PORTANIMICUT ROAD BULKHEAD REPLACEMENT

This project provides funds for the construction of the replacement of the bulkhead and boat ramp located at the Portanimicut Road town landing. This landing receives heavy commercial and recreational use from April to December annually.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$700,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 8 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$53,375 |

NAUSET REGIONAL SCHOOLS – HIGH SCHOOL MSBA CORE PROJECT CONSTRUCTION

The MSBA CORE Project is a very preliminary cost estimate of \$65,000,000 based on square footage and category totals and will change as Nauset progresses through the MSBA process. The MSBA separates their projects into three categories – additions/renovations, new and repairs and a more accurate estimate will result from the study funded in FY18. Under the intermunicipal agreement for the regional school district, all four towns must approve the project funding and assessments are based on school enrollments, which for Orleans results in a 19.85% share of the total based on the student enrollments on October 1, 2015.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$12,902,500 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | TBD |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$983,816 |

SNOW LIBRARY ROOF REPLACEMENT

This project will fund the roof replacement at Snow Library.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$350,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 3 months |
| Estimated Annual Cost O/M: | N/A |
| Average Annual P&I | \$26,688 |

FY21 PROJECT DESCRIPTIONS

CWRMP IMPLEMENTATION – PLANNING, ENGINEERING & ADAPTIVE MANAGEMENT

The Orleans Water Quality Advisory Panel, appointed by the Board of Selectmen, reached agreement on a set of key elements of an Amended Water Quality Management Plan and associated Adaptive Management Plan for the Town. This Agreement includes and requires successful completion of a number of steps to resolve uncertainties and confirm key elements, such as treatment and disposal site suitability and availability, development of demonstration sites for non-traditional technologies, and further work to find and equitable distribution of costs necessary to the development of an acceptable and executable engineering plan that adheres to key elements. In order to move the Amended Water Quality Plan and associated Adaptive Management Plan process forward, the Board of Selectmen proposes to fund the following tasks in FY21:

1. Planning and Engineering (\$): Design - WWTF, Collection System, Effluent Disposal and NT Technologies; Construction and Replacement - WWTF, Collection System, Effluent Disposal and NT Technologies; Regulatory Coordination; Meetinghouse Pond Utility Survey; and Update of Amended CWMP.
2. Adaptive Management Implementation (\$): Water Quality Monitoring for MEP compliance & Project Baselines; MEP Study & Report Updates; Namskaket & Little Namskaket Adaptive Plans; Stormwater & Fertilizer Management; and Cedar Pond & Rock Harbor Creek Resolution Plus Cedar Pond Single EIR; Nauset Estuary Increased Monitoring; and Pond Nutrient Study.
3. Program Management (\$): Technical Oversight & Projects Management; Public Engagement Coordination; Financial Modeling and Analysis; and Regulatory Coordination.

| | |
|-----------------------|-------------|
| Total Estimated Cost: | \$8,400,000 |
|-----------------------|-------------|

| | |
|----------------------------|--------------------|
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$508,200 |

DPW & NATURAL RESOURCES – WATER DEPT. COUNTRY LANE WATER MAIN

This project will fund the engineering design to replace a 6-inch water main with an 8-inch main to improve fire flows in East Orleans as recommended in the 20-year Asset Management Plan prepared for the Town in 2014. The project will be designed and bid so that the results can be presented to the Town Meeting in May 2019.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$115,000 |
| Method of Financing: | Bonding (25 years) |
| Recommended Schedule: | 6 Months |
| Estimated Annual Cost O/M: | \$2,500 |
| Average Annual P&I | \$6,325 |

DPW & NATURAL RESOURCES – WATER DEPT. WTP FILTER MEMBRANE REPLACEMENT

This project would be to replace rack #2 at the water treatment plant. The membranes are nearing the end of their 10 year performance warranty and need to be replaced. As the heart of the treatment process their replacement must be planned for and the supplier (Pall Corp.) and other experienced professionals advise planning for the replacement as the warranty expires. One of three racks would be replaced in three successive years beginning in FY20.

| | |
|----------------------------|----------------|
| Total Estimated Cost: | \$362,000 |
| Method of Financing: | Water Reserves |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | \$50,000 |

FY22 PROJECT DESCRIPTIONS

CWRMP IMPLEMENTATION – PLANNING, ENGINEERING & ADAPTIVE MANAGEMENT

The Orleans Water Quality Advisory Panel, appointed by the Board of Selectmen, reached agreement on a set of key elements of an Amended Water Quality Management Plan and associated Adaptive Management Plan for the Town. This Agreement includes and requires successful completion of a number of steps to resolve uncertainties and confirm key elements, such as treatment and disposal site suitability and availability, development of demonstration sites for non-traditional technologies, and further work to find and equitable distribution of costs necessary to the development of an acceptable and executable engineering plan that adheres to key elements. In order to move the Amended Water Quality Plan and associated Adaptive Management Plan process forward, the Board of Selectmen proposes to fund the following tasks in FY22:

1. Planning and Engineering (\$): NT Technologies - Demonstration Project Planning & Pre-Design, Final Design and Implementation; Design - WWTF, Collection System, Effluent Disposal and NT Technologies; Construction and Replacement - WWTF, Collection System, Effluent Disposal and NT Technologies; Regulatory Coordination; and Update of Amended CWMP.
2. Adaptive Management Implementation (\$): Water Quality Monitoring for MEP compliance & Project Baselines; MEP Study & Report Updates; Namskaket & Little Namskaket Adaptive Plans; Stormwater & Fertilizer Management; and Cedar Pond &

Rock Harbor Creek Resolution Plus Cedar Pond Single EIR; Nauset Estuary Increased Monitoring; and Pond Nutrient Study.

3. Program Management (\$): Technical Oversight & Projects Management; Public Engagement Coordination; Financial Modeling and Analysis; and Regulatory Coordination.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$9,600,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$580,800 |

DPW & NATURAL RESOURCES – WATER DEPT. WTP FILTER MEMBRANE REPLACEMENT

This item would replace Rack #3 at the water treatment plant. The membranes were supplied with a 10 year performance warranty and need to be replaced. As the heart of the treatment process their replacement must be planned for and the supplier (Pall Corp.) and other experienced professionals advise planning for the replacement as the warranty expires. One of three racks would be replaced in three successive years beginning in FY20.

| | |
|----------------------------|----------------|
| Total Estimated Cost: | \$362,000 |
| Method of Financing: | Water Reserves |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | \$50,000 |

DPW & NATURAL RESOURCES – WATER DEPT. ROCK HARBOR ROAD WATER MAIN

This project will fund the engineering design to replace a 6-inch water main with an 8-inch main as recommended in the 20-year Asset Management Plan prepared for the Town by Wright Pierce Engineering in 2014. The project will be designed and bid so that the results can be presented to the town meeting in May 2022 for consideration.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$72,000 |
| Method of Financing: | Bonding (25 years) |
| Recommended Schedule: | 6 Months |
| Estimated Annual Cost O/M: | \$2,500 |
| Average Annual P&I | \$3,960 |

DPW & NATURAL RESOURCES – TOWN COVE BULKHEAD REPLACEMENT

This project provides funds for the construction of the replacement of the east bulkhead and boat ramp located at the Town Cove town landing adjacent to the Goose Hummock. This landing receives heavy commercial and recreational use from April to December annually.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$700,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 6 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$53,375 |

ORLEANS ELEMENTARY SCHOOL – MSBA CORE PROJECT CONSTRUCTION

This project would fund the construction of the MSBA CORE final program scope developed in FY19 to address the complete replacement of the plumbing and fixtures in the restrooms and classrooms in the original building; replacing the rubber membrane roof; replacing the stage accessibility ramp/lift; sound absorption panels in the K-3 wing; and interior lighting occupancy

sensors, signage and access to the playfields. The scope of work needed is outlined in the Capital Asset Assessment report by Habeeb & Associates Architects dated on October 21, 2013.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$1,120,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 6 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$85,400 |

FY23 PROJECT DESCRIPTIONS

CWRMP IMPLEMENTATION – PLANNING, ENGINEERING & ADAPTIVE MANAGEMENT

The Orleans Water Quality Advisory Panel, appointed by the Board of Selectmen, reached agreement on a set of key elements of an Amended Water Quality Management Plan and associated Adaptive Management Plan for the Town. This Agreement includes and requires successful completion of a number of steps to resolve uncertainties and confirm key elements, such as treatment and disposal site suitability and availability, development of demonstration sites for non-traditional technologies, and further work to find and equitable distribution of costs necessary to the development of an acceptable and executable engineering plan that adheres to key elements. In order to move the Amended Water Quality Plan and associated Adaptive Management Plan process forward, the Board of Selectmen proposes to fund the following tasks in FY23:

1. Planning and Engineering (\$): NT Technologies - Demonstration Project Planning & Pre-Design, Final Design and Implementation; Design - WWTF, Collection System, Effluent Disposal and NT Technologies; Construction and Replacement - WWTF, Collection System, Effluent Disposal and NT Technologies; Regulatory Coordination; and Update of Amended CWMP.
2. Adaptive Management Implementation (\$): Water Quality Monitoring for MEP compliance & Project Baselines; MEP Study & Report Updates; Namskaket & Little Namskaket Adaptive Plans; Stormwater & Fertilizer Management; and Cedar Pond & Rock Harbor Creek Resolution Plus Cedar Pond Single EIR; Nauset Estuary Increased Monitoring; and Pond Nutrient Study.
3. Program Management (\$): Technical Oversight & Projects Management; Public Engagement Coordination; Financial Modeling and Analysis; and Regulatory Coordination.

| | |
|----------------------------|--------------------|
| Total Estimated Cost: | \$18,000,000 |
| Method of Financing: | Bonding (20 years) |
| Recommended Schedule: | 12 Months |
| Estimated Annual Cost O/M: | TBD during design |
| Average Annual P&I | \$1,089,000 |

DPW & NATURAL RESOURCES – REPLACE STREET SWEEPER

This item will replace a regenerative air street sweeper that was purchased in 2013 to clean the 56 miles of public roads twice a year, clean the down area on a weekly basis, and clean all town owned parking lots.

| | |
|-----------------------|-------------------|
| Total Estimated Cost: | \$225,000 |
| Method of Financing: | Bonding (5 years) |
| Recommended Schedule: | 3 Months |

| | |
|----------------------------|----------|
| Estimated Annual Cost O/M: | \$5,000 |
| Average Annual P&I | \$51,750 |

SUMMARY

In accordance with Chapter 8-5-1 of the Charter the Town Administrator shall prepare a five year Capital Improvements Plan (CIP) and annual Capital Budget which are designed to deal with the unmet long-range needs of the Town and to implement the goals and objectives of the Orleans Comprehensive Plan.

The CIP includes land acquisitions, buildings and improvements, machinery and equipment, vehicles, and infrastructure including roads, water mains, storm drainage and other publicly owned utilities.

The CIP includes proposed expenditures for all town activities and departments, the regional school, and regional, county, state and federal grants that may be used to support and finance capital improvements, facilities and equipment through grants, loans or inter-municipal agreements.

Proposed CIP project financing may include bonding, stabilization or reserve funds, or other available funds. Proposed capital expenditures in excess of \$10,000 for motor vehicles, equipment, building/facility maintenance and repairs are included in the CIP summarized by department and funding source.

As presented, the CIP includes all proposed projects for the period beginning July 1, 2018 (FY19) through June 30, 2023 (FY23). Projects that are proposed for funding in FY18 make up the Capital Budget and may be presented in one or more articles in the town meeting warrant for funding consideration. The Capital Budget projects that were included in the CIP at the May 2016 town meeting are shown in the "Adopted" column under FY18 and those projects that are being proposed for funding are shown in the "Budgeted" column under FY18.

In accordance with the Chapter 8-7-1 of the Charter, the Town Meeting shall act on the five year CIP and the annual Capital Budget, provided all proposed projects have been included in the CIP in the prior fiscal year. Any articles for capital improvements not in compliance with 8-5-1 shall require a three-fourths (3/4) majority vote of the Town Meeting.

| ITEM | ORLEANS COMPREHENSIVE PLAN IMPLEMENTATION PROGRAM DESCRIPTIONS |
|-------|---|
| AH-1 | Develop 35 new units of affordable housing for families over the next twenty years, and support this activity by scheduling it in the capital improvement plan. |
| CF-11 | Construct office, storage and maintenance facilities for Highway Department, Parks & Beaches and Water Department. |
| CF-19 | Implement improvements to Town Landings as scheduled. |
| CF-27 | Develop a wastewater management plan for the entire town |
| CF-28 | Implement recommendations of the wastewater management plan |
| CF-32 | Study the future facilities and staffing needs of the Police and Fire/Rescue Departments |
| CF-33 | Initiate consideration of potential sites for wastewater treatment |
| NR-6 | Prevent direct discharge of untreated stormwater into coastal embayments and ponds |
| NR-12 | Prevent direct discharge of untreated stormwater into fresh water bodies |
| OS-2 | Preserve 400 or more acres of high priority parcels for ground and surface water protection, conservation, recreation and other environmental purposes |
| T-1 | Complete and utilize a Pavement Management System to develop a systematic approach to street maintenance and improvement |
| T-7 | Fund the Highway Department at an appropriate level to support the maintenance and replacement of new and existing roads. |