

Dunshire Drive Culvert Replacement FY20 MVP Action Grant Scope

| Project Task Description | Deliverables | Due Date | Grant | Match | Total |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|--------------------|---------------------|
| Tasks to be Completed by June 20, 2020 | | | | | |
| Task 0: Kick-off meeting with Town, EEA, and Consultant | •Project Kick-off Meeting Minutes and Key Findings in electronic format (Adobe PDF) | | N/A | N/A | N/A |
| Task 1: Field Data Collection and Analysis | | | | | |
| Sub-task 1.1 Topographical Site Survey | •Field logs, photos, survey results | February 28, 2020 | \$0.00 | \$6,437.00 | \$6,437.00 |
| Sub-task 1.2 Wetlands Delineation | •Raw data files in ASCII format | | \$0.00 | \$1,744.00 | \$1,744.00 |
| Sub-task 1.3 Geotechnical Assessment | •Topographic base plan (AutoCAD) •Wetlands delineation and required MassDEP data forms | | \$14,545.00 | \$1,304.00 | \$15,849.00 |
| Total Task 1 Cost | | | \$14,545.00 | \$9,485.00 | \$24,030.00 |
| Task 2: Modeling | | | | | |
| Sub-task 2.1 Modeling Climate Change Projections | •H&H Analysis Report | March 31, 2020 | \$5,715.00 | \$1,568.00 | \$7,283.00 |
| Sub-task 2.2 Hydrologic and Hydraulic Assessment | •Data and Modeling Files | | \$8,315.00 | \$1,568.00 | \$9,883.00 |
| Total Task 2 Cost | | | \$14,030.00 | \$3,136.00 | \$17,166.00 |
| Task 3: Design | | | | | |
| Sub-task 3.1 Structural | •Design to include plan & profiles, typical sections, drainage, traffic management plans, pavement marking & sign plans, cross sections, etc. | May 31, 2020 | \$22,670.00 | \$1,980.00 | \$24,650.00 |
| Sub-task 3.2 Site/Civil | •Plans and Specifications for Public Bidding •Construction Cost Estimate | | \$15,270.00 | \$1,980.00 | \$17,250.00 |
| Total Task 3 Cost | | | \$37,940.00 | \$3,960.00 | \$41,900.00 |
| Task 4: Permitting | | | | | |
| Sub-task 4.1 Wetlands Protection Act | •Permit applications for: Massachusetts Wetlands Protection Act Notice of Intent and Chapter 91 Waterways License | June 20, 2020 | \$7,405.00 | \$950.00 | \$8,355.00 |
| Sub-task 4.2 USACOE | | | \$1,370.00 | \$223.00 | \$1,593.00 |
| Sub-task 4.3 NHESP Consultation | | | \$850.00 | \$223.00 | \$1,073.00 |
| Sub-task 4.4 Chapter 91 Waterways License | | | \$7,405.00 | \$950.00 | \$8,355.00 |
| Total Task 4 Cost | | | \$17,030.00 | \$2,346.00 | \$19,376.00 |
| Task 5: Public Engagement | | | | | |
| Sub-task 5.1 Public Engagement | • Content that can be utilized as a fact sheet and website content • Event materials • Up to five social media posts for: Town of Chelmsford, Facebook | June 20, 2020 | \$0.00 | \$5,030.00 | \$5,030.00 |
| Total Task 5 Cost | | | \$0.00 | \$5,030.00 | \$5,030.00 |
| Task 6: Management | | | | | |
| Sub-task 6.1 Reporting | • Monthly reports and final report | June 20, 2020 | \$0.00 | \$4,020.00 | \$4,020.00 |
| Total Task 6 Cost | | | \$0.00 | \$4,020.00 | \$4,020.00 |
| TOTAL PROJECT COST | | | \$83,545.00 | \$27,977.00 | \$111,522.00 |

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|--------------------------------|--------------------|--------------------|---------------------|
| TOTAL PROJECT COST FY20 | \$83,545.00 | \$27,977.00 | \$111,522.00 |
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|-----------------------------------|--------------------|--------------------|---------------------|
| TOTAL PROJECT COST OVERALL | \$83,545.00 | \$27,977.00 | \$111,522.00 |
|-----------------------------------|--------------------|--------------------|---------------------|

(Add lines as necessary and incorporate into existing formulas)

25.09% (Note: Match must be at least 25% of total project cost)