

**TOWN OF PLYMOUTH CAPITAL IMPROVEMENT PLAN REQUEST
FY25 SPRING ANNUAL TOWN MEETING**

Department: CEMETERY DIVISION	Priority #:	ONE
Project Title and Description: ROUTE 80 CEMETERY	Total Project Cost:	\$3,472,162.00

Department/Division Head: DIANE MAGUIRE

Check if project is: New ☒ Resubmitted ☐ **Cost estimate was developed:** Internally ☐ Externally ☒

For project re-submittals, list prior year(s):

List any funding sources and amounts already granted: _____

Basis of Estimated Costs (attach additional information if available)			If project has impact on 5 Year Plan and future operating budgets, insert estimated amounts.		
Capital:	Cost	Comments	Fiscal Year:	Capital	Operations & Maintenance
<i>Planning and Design</i>			FY26		
<i>Labor and Materials</i>	\$3,472,162.00		FY27		
<i>Administration</i>			FY28		
<i>Land Acquisition</i>			FY29		
<i>Equipment</i>			FY30		
<i>Other</i>					
<i>Contingency</i>					
Total Capital					

Project Justification and Objective: _____

For Capital Project Requests:

Will this project be phased over more than one fiscal year? If yes, enter it on the 5 Year Plan

Yes ☐ No ☒

Can this project be phased over more than one fiscal year?

Yes ☐ No ☒

For Capital Equipment Requests:

☐ Check if equipment requested is replacement and enter the year, make & model, VIN and present condition of existing equipment

What is the expected lifespan of this new/replacement equipment: _____

Attach backup information, estimates, or justification to support this request.



TOWN OF PLYMOUTH

VINE HILLS CEMETERY & CREMATORY

102 Samoset Street
Plymouth, Massachusetts 02360

(508) 830-4078
FAX: (508) 830-4141

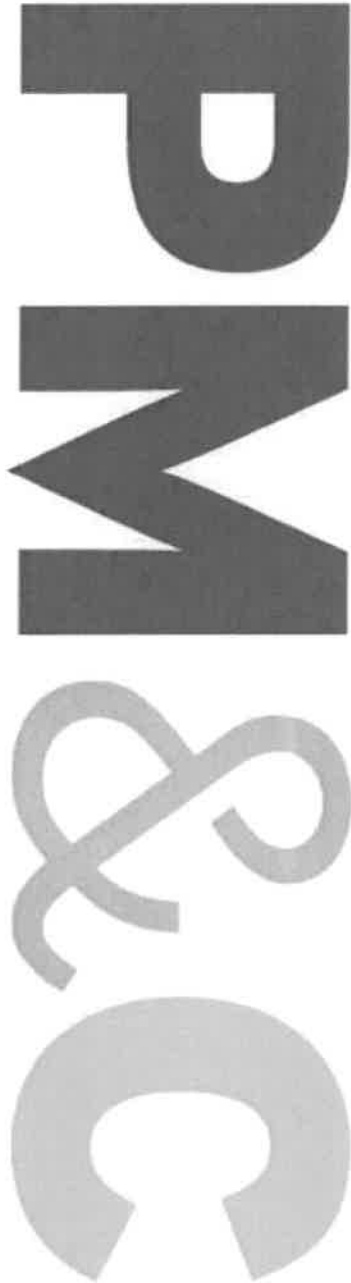
MEMORANDUM

TO: Lynne Barrett, Finance Director
FR: Diane Maguire, Cemetery & Crematory Superintendent
CC: William Coyle, DPW Director, Derek Brindisi, Town Manager & Silvio Genoa, Assistant Town Manager
DT: August 9, 2024
RE: Capital Request FY2025 Fall Town Meeting

The Town of Plymouth owned cemeteries are running out of burial space and currently have a moratorium during which lots may only be purchased when there has been a death. Even with this moratorium, we have an estimated 2-3 years left of burial space.

The design and permitting for the Route 80 cemetery site are ongoing and should be completed by the end of year 2024. The Cemetery Division is asking for \$3,472,162.00 for the construction and opening of phase 1 of the project. Phase 1 includes the development of 3 acres of the 40-acre parcel. It will contain approximately 3500 burial spaces which are estimated to last 15 years. A footprint for a future building has been included in the plans but is not included for construction in the first phase.





Schematic Design Estimate

Route 80 Cemetery New Site

Plymouth, MA

PM&C LLC
20 Downer Avenue, Suite 5
Hingham, MA 02043
(T) 781-740-8007

Prepared for:

Ray Dunetz Landscape Architecture Inc.

August 26, 2024
Rev4

**Route 80 Cemetery**

New Site

Plymouth, MA

26-Aug-24

Schematic Design Estimate**MAIN CONSTRUCTION COST SUMMARY**

	Construction Start	Estimated Construction Cost
PHASE 1		
SITEWORK		\$2,478,252
SUB-TOTAL	Spring 2025	\$2,478,252
ESCALATION TO START	4.6%	\$114,000
DESIGN AND PRICING CONTINGENCY	12.5%	\$309,782
SUB-TOTAL		\$2,902,034
GENERAL CONDITIONS/ GR's	10%	\$290,203
BONDS	1.00%	\$29,020
INSURANCE	1.20%	\$34,824
PERMIT		NIC
OVERHEAD AND FEE	4.00%	\$116,081
CONSTRUCTION CONTINGENCY		By Owner
Archaeology Monitoring	1	LS \$75,000
Cemetery software and laptops	1	LS \$25,000
TOTAL OF ALL CONSTRUCTION	Spring 2025	\$3,472,162



Route 80 Cemetery

New Site

Plymouth, MA

26-Aug-24

Schematic Design Estimate

This Schematic design cost estimate was produced from drawings received from Ray Dunetz Landscape Architecture Inc. and their design team dated June 21, 2024. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, General Contractor's overhead, fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under Chapter 30/39 of the Massachusetts General Laws to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufactures.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

- Land acquisition, feasibility, and financing costs
- All professional fees and insurance
- Site or existing conditions surveys investigations costs, including to determine subsoil conditions
- Items identified in the design as Not In Contract (NIC)
- Items identified in the design as by others
- Owner supplied and/or installed items as indicated in the estimate
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)
- Construction contingency



Route 80 Cemetery
Plymouth, MA

26-Aug-24

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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PHASE 1 - SITEWORK

G SITEWORK

G10 SITE PREPARATION & DEMOLITION

311000 GENERAL CONDITIONS

6' high site construction fence - only along rt.80 entrances	255	lf	16.00	4,080	
6' high site construction fence double gate	2	loc	5,000.00	10,000	
Site construction entrance and removal/restoration	2	loc	10,000.00	20,000	
Site construction fence maintenance	255	lf	5.00	1,275	
Mobilization & Demobilization	1	ea	25,000.00	25,000	
Snow fence @ archaeological buffer	1	ls	5,000.00	5,000	
Temp laydown areas	1	ls	10,000.00	10,000	
Snow removal - allowance	1	ls		Excluded	
Winter conditions - allowance	1	ls		Excluded	
Police details	1	ls		Excluded	
Site security	1	ls		Excluded	
Job site construction trailer	1	ls		Excluded	
Temp utilities for job trailer	1	ls		Excluded	

311000 VEGETATION & TOPSOIL MANAGEMENT

Tree clearing	5	acre	8,000.00	40,000	
Stump removal	5	acre	4,000.00	20,000	
Tree protection allowance	1	ls	10,000.00	10,000	
Strip + stockpile	8,000	cy	11.00	88,000	

312000 EROSION & SEDIMENT CONTROL

Silt Fence; installation and removal	3,144	lf	15.00	47,160	
Silt Sacks; installation and removal - allowance	1	ls	2,500.00	2,500	
Erosion Control monitoring & maintenance	1	ls	10,000.00	10,000	

SUBTOTAL

293,015

312000 SITE EARTHWORK

Site supervision/layout	6	wk	3,000.00	18,000	
Site cut to design subgrade	5,600	cy			
Cut	5,600	cy	8.75	49,000	
Stockpile/move around site	5,600	cy	5.68	31,808	
Site fill to design subgrade	6,500	cy			
Fill onsite site soils - place/compact	5,600	cy	13.57	75,992	
Fill onsite site soils - place/compact - excess topsoil	2,000	cy	13.57	27,140	

312000 ESTABLISHING GRADE

Sub grade establishment	290,000	sf	0.15	43,500	
Fine grading throughout the site	290,000	sf	0.30	87,000	

SUBTOTAL

332,440

TOTAL - SITE PREPARATION

\$625,455

G20 SITE IMPROVEMENTS

320000 ROADWAYS AND PARKING LOTS

Asphalt Paving; parking lots and roadway	27,713	sf			
gravel base; 12" thick	1,026	cy	45.38	46,560	
Place/Compact	27,713	sf	6.14	170,238	
asphalt top; 2" thick	354	tns	175.00	61,950	
asphalt binder; 2" thick	354	tns	130.00	46,020	

320000 ROAD MARKINGS AND SIGNS

Sign allowance - 8 one-way signs	8	ea	875.00	7,000	
Entrance sign allowance	1	ls	10,000.00	10,000	
Pavement markings allowance	1	ls	10,000.00	10,000	

SUBTOTAL

351,768

320000 PEDESTRIAN PAVING

Concrete pads	56	sf			
gravel base; 12" thick	2	cy	45.38	91	
Place/Compact	2	cy	622.84	1,246	



Route 80 Cemetery
Plymouth, MA

26-Aug-24

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
PHASE 1 - SITEWORK							
60	Broom finish concrete paving; 7" thick	56	sf	17.00	952		
61	Pavers at plaza and columbarium	2,549	sf				
62	gravel base; 8" thick	63	cy	50.00	3,150		
63	Place/Compact	2,549	sf	4.54	11,574		
64	Concrete slab paving; 4" thick	2,549	sf	9.00	22,941		
65	Concrete pavers	2,549	sf	28.00	71,372		
66	Geotextiles	2,549	sf	0.55	1,402		
67	Edging	284	lf	18.00	5,112		
68	Stabilized stone dust pathway	1,727	sf				
69	Gravel base; 6" thick	32	cy	45.38	1,452		
70	Stone dust 4" thick	43	tns	150.00	6,450		
71	Place/Compact	587	sf	19.72	11,574		
72	SUBTOTAL					137,316	
73							
74	320000 SITE IMPROVEMENTS						
75	320000 SITE FURNISHINGS						
76	Benches - granite	4	ea	4,200.00	16,800		
77	Excavation/backfill	4	ea	1,929.05	7,716		
78	Benches - steel with wood topper	4	ea	3,500.00	14,000		
79	Software/laptops allowance	1	ls	25,000.00	See Summary		
80	Flagpole - 30' Ht.	3	ea	7,000.00	21,000		
81	Flagpole foundation	3	ea	4,500.00	13,500		
82	Columbarium	2	ea	45,225.00	90,450		
83	Columbarium foundations	9	cy	1,250.00	11,250		
84	Excavation/backfill	2	ea	3,858.10	7,716		
85	Columbarium engineering - per memo	1	ls	3,000.00	3,000		
86	320000 FENCING						
87	6' Ht - Ameristar fencing along route 80	800	lf	182.00	145,600		
88	4' Ht - Chain link fence	500	lf	65.00	32,500		
89	Split-rail fence	1,734	lf	55.00	95,370		
90	Vehicular gate, manual	2	ea	8,500.00	17,000		
91	SUBTOTAL					475,902	
92							
93	Landscaping						
94	329900 LAWN AND SEED						
95	Screen topsoil	6,000	cy	7.50	45,000		
96	Export tailings from screening process - assume clean rock	1,800	cy	8.50	15,300		
97	Amend/Place	4,200	cy	20.00	84,000		
98	Soil and at planting areas; 6" thick	540	cy	65.00	35,100		
99	Mulch at planting areas; 2" thick	173	cy	50.00	8,650		
100	Power rake and hydroseed disturbed areas	157,675	sf	0.36	56,763		
101	Bio-retention seeding	12,036	sf	1.25	15,045		
102	329900 TREES						
103	Deciduous trees - 2-2.5" cal.	30	ea	1,800.00	54,000		
104	Ornamental trees - 7-8' Ht.	20	ea	1,500.00	30,000		
105	Evergreen trees - 5-6' Ht.	100	ea	500.00	50,000		
106	329900 SHRUBS AND GROUNDCOVERS						
107	Shrubs for Scattering Gardens	200	ea	100.00	20,000		
108	Perennials for Scattering Gardens	500	ea	35.00	17,500		
109	329900 MAINTENANCE						
110	1-yr plant maintenance	1	ls	15,000.00	15,000		
111	328400 IRRIGATION						
112	Irrigation areas - assume not required						
113	SUBTOTAL					446,358	
114							
115	TOTAL - SITE IMPROVEMENTS						\$1,411,344
116							



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PHASE 1 - SITEWORK

G30 CIVIL MECHANICAL UTILITIES

331000 WATER UTILITIES

Well and pump	1	ls	65,000.00	65,000	
3/4" copper water line	647	lf	65.00	42,055	
Water service to hose bibbs in burial areas, 6 loc - per email	6	ea	3,500.00	21,000	
SUBTOTAL					128,055

334000 STORM DRAINAGE

4' Dia. DMH - 0-5' deep	1	ea	4,200.00	4,200	
CB - 4' Dia.	1	ea	3,800.00	3,800	
FES	1	ea	2,500.00	2,500	
12" HDPE	375	lf	70.00	26,250	

334000 SURFACE DRAINAGE SYSTEMS

Biofiltration basin	12,036	sf	18.00	216,648	
SUBTOTAL					253,398

TOTAL - SITE MECHANICAL UTILITIES					\$381,453
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G40 ELECTRICAL UTILITIES

260000 ELECTRICAL UTILITIES

New electrical service	1	ls	30,000.00	30,000	
Power to pump	1	ls	10,000.00	10,000	
Power to flagpole	1	ls	10,000.00	10,000	
Well power connection service allowance	1	ls	10,000.00	10,000	
SUBTOTAL					60,000

TOTAL - ELECTRICAL UTILITIES					\$60,000
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TOTAL - SITE DEVELOPMENT					\$2,478,252
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