

MARTHA'S VINEYARD REFUSE DISPOSAL AND
RESOURCE RECOVERY DISTRICT
750 WEST TISBURY RD. EDGARTOWN, MA. 02539

To: Town of
From: Don Hatch
Re: Article for next Town Meeting
Date: July 24, 2014

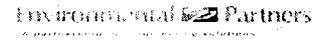
At the July 24, 2014 meeting of the District Committee the Committee voted to ask all District town to place the following Article on their 2016 Annual Town Meeting Warrant:

Article: To see of the Town will approve the \$2,500,000.00 borrowing authorized by vote of the Martha's Vineyard Refuse Disposal and Resource Recovery District for the purpose of financing the cost of capital improvements toward the restructuring of Traffic flow and Residential Drop-Off construction of the Edgartown Transfer Station, or to take any action relative thereto.

Should you have any questions concerning this article please do not hesitate to contact me.

Don Hatch
District Manager

**Martha's Vineyard Refuse Disposal & Resource Recovery District (MVRDRR)
Central Facility Transfer Station
Cost Estimate for Conceptual Layout of Drop-Off Facilities**



Version: July 22, 2014

References/Notes

- A. MassDOT Weighted Average Book (September 2012 through September 2013)
- B. Engineering News-Record (ENR) Website - September 2013 Index Value for Construction Cost = 9551.58
- C. Quotes from Vineyard-based Contractors, wherever possible
- D. The cost estimate was forecasted to July 2015 by using the ENR inflation rate between September 2013 to July 2014 (9834.63/9551.58 = 3%) extended to July 2015 (16% overall)

| Item No. | Item Description | Quantity | Units | Unit Cost | Subtotal | Reference | Notes |
|----------|-----------------------------------------------------------------------------|------------------|----------|------------------------------------------------------------|------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <u>Mobilization, Bonds, Insurance</u> | 1 | LS | \$15,000 | \$15,000 | EPG Judgement | Assumes Vineyard-based Contractor |
| 2 | <u>Cleaning and Grubbing</u> | 6.0 | Acre | \$13,000 | \$78,000 | MassDOT Item 101 | Requested quote from Clements Tree Service, Vineyard Haven |
| 3 | <u>12" Diameter Filter Sock for Erosion Control</u> | 2,000 | LF | \$5 | \$10,000 | Previous Bid Tabs | Allowance |
| 4 | <u>Earthwork</u> | 14,610 | CY | \$7 | \$102,270 | EPG Judgement | Including Cutting, Filling, and Rehandling. Includes 11,320 cy cut, and 3,290 cy fill. Including grading basins. Not including any swales. Does not include hauling/removing material from site. |
| 5 | <u>Fine Grading for Swales</u> | 1,667 | SY | \$5 | \$8,333 | MassDOT Item 101 | Total length of swales = 1,000 lf. Assume 15 wide swale |
| 6 | <u>Drainage, Deep Sump/Catch Basin</u> | 6 | EA | \$4,000 | \$24,000 | EPG Judgement | Allowance. Completely installed, including excavation, backfilling, frames, grates, etc. |
| 7 | <u>Drainage, Manhole</u> | 3 | EA | \$4,500 | \$13,500 | EPG Judgement | Allowance. Completely installed, including excavation, backfilling, frames, grates, etc. |
| 8 | <u>Drainage, 12" Corrugated Plastic Piping</u> | 500 | LF | \$40 | \$20,000 | EPG Judgement | Allowance. Completely installed, including excavation, backfilling, compacting, flared end sections, etc. |
| 9 | <u>Guardrail (Steel with beam, double faced)</u> | 300 | LF | \$30 | \$9,000 | MassDOT Item 621.1 | Use instead of jersey barriers |
| 10 | <u>New Attendant's Shed</u> | 1 | LS | \$10,000 | \$10,000 | EPG Judgement, Previous Projects | Assume 14'x14'x10' high shed |
| 11 | <u>Concrete Pad for Container Area & Miscellaneous Recyclables Area</u> | 14,400 | SF | \$6 | \$86,400 | Quote requested from P&P West Tisbury | Total Area = 14,400 sf. Assume 6" thick. Including proof rolling, subbase, and 6" thick slab-on-grade. |
| 12 | <u>Retaining Walls for Roll Off Areas</u> | 112 | CY | \$800 | \$89,600 | Quote requested from P&P West Tisbury | 760 lf total, avg. height = 4'. Cast in place concrete wall assume \$1,000/cy, in-place, including concrete slab, assume 1' width for wall, and avg. height = 4' |
| 13 | <u>Fencing on Retaining Walls</u> | 760 | LF | \$15 | \$11,400 | EPG Judgement | 760 lf total. Assume avg. height of 3.5' for fencing. Assume fencing for pedestrians may be carpentry fencing. |
| 14 | <u>Sub-base (Recycled Asphalt Pavement) Materials Installation</u> | 6,300 158,300 | CY SF | \$20.00 \$1.75 | \$126,000 \$277,025 | Goodale quote for RAP Quote from MVRRD | Sub-base for Pavement Areas. Area to be paved = 158,300 sf = 3.63 Acres. Assume 9"-12" thick layer, and + 20% in-place. Approx. 5,300 cy to 7,000 cy required. |
| 15 | <u>Paving Binder and Wearing Course - 4" thick</u> | 3,826 | Tons | \$185 | \$707,733 | Unit price from MVRRD | Area to be paved = 158,300 sf |
| 16 | <u>4 Inch ReflectORIZED Yellow Line (Thermoplastic)</u> | 3,200 | LF | \$2 | \$6,400 | MassDOT Item 867.04 | Allowance. Pavement striping. Assume total length = 3,200 sf. Assume single lines for striping, not double. |
| 17 | <u>Pavement Arrows ReflectORIZED White (Thermoplastic)</u> | 2,600 | SF | \$5 | \$13,000 | MassDOT Item 864.04 | Allowance. Pavement Arrows. Assume total area = 130 sf per arrow. 20 arrows. 2,600 sf total. |
| | | | | Subtotal, Estimated Construction | \$1,807,681 | | |
| | | | | Contingency (25%) | \$482,298 | | |
| | | | | Engineering, Permitting, Bidding, Construction Admin (15%) | \$241,149 | | |
| | | | | Total Estimated Cost, September 2013 | \$2,367,109 | | |
| | | | | | | <u>Paving-related costs</u> | |
| | | | | | | Sub-base \$403,025 | |
| | | | | | | Asphalt \$707,733 | |
| | | | | | | Subtotal \$1,110,758 | |
| | | | | | | Contingency (25%) \$277,689.48 | |
| | | | | | | Total \$1,388,447 | |
| | | | | TOTAL ESTIMATED COST, JULY 2015 (see Note 4) | \$2,500,135 | | |