

**RECEIVED**

**APR 16 2018**

**SECRETARY'S OFFICE  
DEPT. OF TRANSPORTATION**

*Town of Denton*

*4 N. Second Street*

*Denton, Maryland 21629*

*Phone (410)-479-2050*

*Fax (410)-479-3534*

Mayor  
Abigail W. McNinch

Council  
Lester L. Branson  
Dallas Lister  
Walter Keith Johnson  
Doncella Wilson

April 5, 2018

Secretary Peter K. Rahn  
Maryland Department of Transportation  
7201 Corporate Center Dr.  
P.O. Box 548  
Hanover, MD 21076

Re: Priority Road Construction Project.  
Denton – Expansion of Gay Street.

Dear Secretary Rahn:

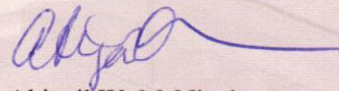
The Town of Denton would like consideration from the Maryland Department of Transportation on extending Gay Street from Legion Road to State Route 404 in Denton, Maryland, as the Town's Priority Road Construction Project.

In an effort to reduce traffic congestion as businesses expand in the area, the town would like to see the expansion of Gay Street. The Gay Street expansion would also allow emergency vehicles that service the urgent care center at Denton Plaza a better route out to 404.

Attached to this letter is the design drawing for the project along with a cost analysis. The project would cost approximately \$2,478,837.00 to complete.

Thank you for your consideration. If you have any question or wish to discuss this project further, please contact myself or Donald Mulrine, Town Administrator, at 410-479-2050 or via email at [DMulrine@dentonmaryland.com](mailto:DMulrine@dentonmaryland.com).

Sincerely,



Abigail W. McNinch  
Mayor

Cc: Caroline County Commissioners



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| DATE | REVISION | BY | DATE |
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**PRELIMINARY CONCEPT PLAN**

LEGION ROAD & MD ROUTE 404 CONNECTOR

CAROLINE COUNTY MARYLAND

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**RYE** 1991

REMININGTON & VERNICK ENGINEERS

232 KINGS HIGHWAY EAST  
LEBANON, TENNESSEE 37050-1180  
WEB SITE ADDRESS: WWW.RYE.COM  
CONTACT: (615) 892-1234

## Classification Number 1 - NEW CONSTRUCTION

|              |                     |   |
|--------------|---------------------|---|
| Client       | Town of Denton      |   |
| Roadway Name | Gay Street Extended | Assumes 40' cross-section ( 12' lanes , 8' shoulders) |

### EARTHWORK

|                          | Unit | Quantity | x Unit Price | Amount        |
|--------------------------|------|----------|--------------|---------------|
| Roadway Exc. Unclassific | C.Y. | 5777     | 40           | 231080        |
| <b>EARTHWORK TOTAL</b>   | =    |          |              | <b>231080</b> |

### PAVEMENT

12 FOOT WIDE LANE (from subgrade up)

| Pav't. Type | Description of Pavement                 | Cost/Linear Foot |
|-------------|---|------------------|
| A           | 6 inch DGA                              | 18               |
| B           | 2 inch HMA Surf. Crs. & 4 inch HMA Base | 80               |
| C           | Milling, 2 inch Depth                   | 5                |
| D           | 2 Inch HMA Surf. Crs.                   | 80               |
| E           | PSO (Emulsion) 6 inch & 2 inch HMA      | 42               |

Computation Table for Pavement. Cost

| Type                  | Cost from table above | x Length | x Pavement *W.F. | = Amount          |
|-----------------------|-----------------------|----------|------------------|-------------------|
| A                     | 18                    | 2600     | 1.667            | 78,015.60         |
| B                     | 80                    | 2600     | 1.667            | 346,736.00        |
|                       |                       |          |                  | 0.00              |
| <b>PAVEMENT TOTAL</b> |                       |          | =                | <b>424,751.60</b> |

\*Width Factors = Ratio of 12 foot wide lane to actual pavement width.

Example = actual pavement width = 25 foot = 25/12 = 2.08 W.F.

**DRAINAGE** (includes inlets and cross drains)

|                       |                        |                 |                   |
|-----------------------|------------------------|-----------------|-------------------|
| Urban                 | 0.25                   | 580000          | 145,000.00        |
|                       | project length (miles) | x cost per mile | = Amount          |
| <b>DRAINAGE TOTAL</b> |                        | =               | <b>145,000.00</b> |

### INCIDENTAL ITEMS

| Item  | Cost / per Pay Unit | x Quantity | = Amount          |
|---|---------------------|------------|-------------------|
| Concrete Curb (LF)                          | 20                  | 2600       | 52,000.00         |
| Concrete Sidewalk (SY)                      | 65                  | 1156       | 75,140.00         |
| ADA Curb Ramp Delineation                   | 45                  | 28         | 1,260.00          |
| Stormwater Cleaning Mechanism               | 60000               | 0          | 0.00              |
| Underground Stormwater Detention Structures | 12                  | 0          | 0.00              |
| Traffic Signalization                       | 180000              | 2          | 360,000.00        |
| Roundabout cost differential                | 200,000             | 1          | 200,000.00        |
| <b>INCIDENTAL ITEMS TOTAL</b>               | =                   |            | <b>688,400.00</b> |

### LANDSCAPE

|                            | Quantity | x Unit Prices | = Amount      |
|----------------------------|----------|---------------|---------------|
| Topsoil and Seeding        |          |               |               |
| Length of Project in miles | 0.25     | 65,000        | 16,250        |
| Planting                   |          |               |               |
| Length of Project in miles | 0.25     | 100,000       | 25,000        |
| <b>LANDSCAPE TOTAL</b>     | =        |               | <b>41,250</b> |

### GENERAL ITEMS

| Item                                | Project Length (miles) | x Cost/Mile | = Amount      |
|-------------------------------------|------------------------|-------------|---------------|
| Field Office                        | 0.25                   | 45,000      | 11,250        |
| Materials Field Laboratory          | 0.25                   | 15,000      | 3,750         |
| Erosion Control during Construction | 0.25                   | 45,000      | 11,250        |
| <b>GENERAL ITEMS TOTAL</b>          | =                      |             | <b>26,250</b> |

**SUMMARY**

|              |                     |   |
|--------------|---------------------|---|
| Client       | Town of Denton      |   |
| Roadway Name | Gay Street Extended | Assumes 40' cross-section ( 12' lanes , 8' shoulders) |

| Work Type               | Totals from other section |
|-------------------------|---------------------------|
| Earthwork               | 231,080                   |
| Pavement                | 424,752                   |
| Drainage                | 145,000                   |
| Incidental Items        | 688,400                   |
| Landscape               | 41,250                    |
| General Items           | 26,250                    |
| <b>PROJECT SUBTOTAL</b> | <b>1,556,732</b>          |

| Other Items                                      | Proj. Subtotal Range                | Choice                 | Amount           |
|--|-------------------------------------|------------------------|------------------|
| Lighting, Traffic Stripes, Signs and Delineators |                                     | 3% of Proj. Subtotal   | 46,702           |
| Maintenance of Traffic                           |                                     | 1.5% of Proj. Subtotal | 23,351           |
| Mobilization                                     |                                     |                        | 140,106          |
| Progress Schedule                                | <b>Project Cost &lt; 5.0 (Mil.)</b> | 9% of Proj. Subtotal   | 140106           |
|  | <b>Project Cost 5.0 &amp; above</b> | 10% of Proj. Subtotal  |                  |
| Clearing Site                                    | Project Cost(Mil.)                  | \$                     | 0                |
|  | Less than 2.0                       |                        | 0                |
|  | 2.0 to 5.0                          |                        | 6,000            |
|  | 5.0 to 10.0                         |                        | 8,000            |
|  | 10.0 to 20.0                        |                        | 15,000           |
|  | 20.0 to 30.0                        |                        | 30,000           |
|  | 30.0 to 40.0                        |                        | 40,000           |
|  | 40.0 & above                        |                        | 58,000           |
| Construction Layout                              | Project Cost(Mil.)                  | \$                     | 30,000           |
|  | Less than 1.0                       |                        | 10,000           |
|  | 1.0 to 2.0                          |                        | 30,000           |
|  | 2.0 to 5.0                          |                        | 45,000           |
|  | 5.0 to 10.0                         |                        | 115,000          |
|  | 10.0 to 20.0                        |                        | 220,000          |
|  | 20.0 to 30.0                        |                        | 240,000          |
|  | 30.0 to 40.0                        |                        | 250,000          |
| 40.0 & above                                     |                                     | 490,000                |                  |
| <b>PROJECT TOTAL</b>                             |                                     |                        | <b>1,816,890</b> |

**CONTINGENCIES & ESCALATION**

Y = Number of Years until midpoint of construction duration plus number of years until construction start. If midpoint is less than 2 years from the date of this estimate, no escalation is required. Maximum value = 10%

|  | Y    | Construction Estimate |
|--|------|-----------------------|
| 1,816,890                                | 2.50 |                       |
| 1,030                                    | 1.02 | 1,908,825             |
| <b>Project Total Contingencies (1+C)</b> |      |                       |

| Project Cost(Mil.) | Contingencies (C) Percent | Average Construction Duration in Years |
|--------------------|---------------------------|--|
| 0-10               | 3%                        | 1                                      |
| 10-20              | 2.50%                     | 2                                      |
| 20-50              | 2%                        | 3                                      |
| Over 50            | 1.50%                     | 4                                      |

0.030  
0.000  
0.000  
0.000

| Project Cost (Mil.)                    |  | % of Construction Cost |
|--|--|------------------------|
| Less than 1.0                          |  |                        |
| 1.0 to 5.0                             |  | 18.40%                 |
| 5.0 to 10.0                            |  | 17.60%                 |
| 10.0 & above                           |  | 12.20%                 |
| <b>CONSTRUCTION ENGINEERING AMOUNT</b> |  | <b>9.50%</b>           |
|  |  | <b>\$335,953.20</b>    |

0  
335,953  
0  
0

CHANGE ORDER CONTINGENCY AMOUNT (10%) = **190,882.50**

UTILITIES RELOCATIONS BY COMPANIES/OWNERS

|         |      |           |
|---------|------|-----------|
| 1908825 | 0.02 | 38,176.50 |
|---------|------|-----------|

x % or + Estimate =  
Use % or utilities detailed estimate = Utility Relocation Cost for Initial Estimate

Construction Cost for Initial Estimate

If there are no utility relocations on the project indicate "No Utilities" in the box above.

RIGHT OF WAY COST

If there is no ROW cost on the project indicate "No ROW" the box

No ROW

SUMMARY

|                                   |                  |
|-----------------------------------|------------------|
| Construction Estimate for Initial | 1,908,825        |
| Change Order Contingencie:        | 190,883          |
| Utilities Relocations             | 38,177           |
| Total Construction Cos:           | 2,137,884        |
| Engineering and Inspector         | 335,953          |
| Permits                           | 5,000            |
| <b>Total Project Cost</b>         | <b>2,478,837</b> |
| Right of Way Cost                 | No ROW           |