



City of Annapolis
 Department of Planning and Zoning
 145 Gorman Street Fl 3
 Annapolis, MD 21401-2529

FOR CITY USE ONLY	
PERMIT #	Grd17-0010
ISSUED	
EXPIRES	

Permitting@annapolis.gov • 410-260-2200 • Fax 410-263-9158 • TDD use MD Relay or 711 • www.annapolis.gov

Grading Permit Application

A grading permit is required for all new single family homes, OR any site disturbing 5,000 or more sq. ft of land by cut or fill OR 2,000 or more sq. ft waterfront, OR 100 cubic yards cut & fill. 7 sets of plans are required, therefore no electronic submission.

Site location information

Site address 39 Hudson Street, Annapolis, MD 21401 Zone 11 Approved for zone _____
 Lot no. _____ Property Tax number 600090086052, 600090230 Residential Commercial
 FCP # _____ SDP # SDP2020-003 or N/A _____

Applicant Information

Applicant/agent The City of Annapolis Day phone 410-263-7949
 Applicant address 145 Gorman Street, 2nd Floor, Annapolis, MD 21401
 Property owner The City of Annapolis Day phone 410-263-7949
 Contractor BuilderGuru Contracting Day phone 410-923-1379
 Contractor address _____
 MD State License no. _____
 Email address efmckeown@annapolis.gov; bkoch@bgc-gandg.com

Site plan Information

Estimated date for grading to begin _____ Estimated date of completion _____
 Description of land Vacant property
 Grading Plan (borrow, excavation, depth, maintenance, etc.)
Proposed City of Annapolis Department of Public Works buildings
 Cubic Yards to be added or removed _____ Total disturbed area (sf.) _____
 Waterfront property Wetlands on or within 50' of site Other water, streams, ditches, etc.
 Disturbance in the 100' buffer Critical Area LDA RCA IDA None

If a water or sewer connection is required, I prefer:

City installation To seek approval of the Public Works Department to have it installed by a licensed contractor (which may require a Street/Sidewalk Opening Permit and/or a bond)

Fee schedule Estimated cost of work \$ \$938,720.00 (Attach certified computation sheet.)
 Signature of owner/authorized agent [Signature] Date 4/20/21

FOR CITY USE ONLY

P&Z approval T. Smith Date 2-19-2017
 PW approval M. Waters Date 2-19-2017
 Final approval _____ Date 5-29-18
 Comments _____
 App fee paid \$ 580.00 Grading permit fee 18,983.05 AASCD fee 668.00
 Total fees due \$ 18,403.05



GRADING, SEDIMENT CONTROL, STORM DRAINAGE, AND UTILITIES COMPUTATION SHEET
FOR GRADING PERMIT AND BOND ESTIMATE

ADDRESS OF SITE: 39 HUDSON STREET ANNAPOLIS, MD 21401		E-MAIL: jschuman@bayengineering.com
JOB NAME: COA- DPW MAINTENANCE FACILITY GRD17-0040	SUBMISSION DATE: Revised June 14, 2021	
ENGINEERING FIRM: Bay Engineering, Inc.	TELEPHONE: 410-897-9290	

A. ESTIMATED COSTS

(Includes dredged material)

1. EARTHMOVING

a. 15000 cu. yds. cut (on-site)	@	\$4.00 /cu. yds.	=	\$60,000.00
b. 12000 cu. yds. fill (on-site)	@	\$4.00 /cu. yds.	=	\$48,000.00
c. 3000 cu. yds. excess soil to be removed or borrow placed on site	@	\$10.00 /cu. yds.	=	\$30,000.00
1. SUBTOTAL =				\$138,000.00

2. SEDIMENT CONTROL MEASURES

a. 2 each stabilized construction entrance	@	\$1,000.00 /ea.	=	\$2,000.00
b. 619 lin.ft. reinforced silt fence	@	\$6.00 /lin ft.	=	\$3,714.00
c. 919 lin.ft. super silt fence	@	\$10.00 /lin ft.	=	\$9,190.00
d. 1024 lin.ft. tree protection fence	@	\$3.00 /lin ft.	=	\$3,072.00
e. 587 lin. ft. earth dike	@	\$4.00 /lin ft.	=	\$2,348.00
f. 5042 sq.yds. of seed, mulch and 2" fertilizer	@	\$3.00 /sq. yds.	=	\$15,126.00
g. 12 each inlet protection device	@	\$300.00 /ea.	=	\$3,600.00
h. 24 lin.ft. riprap inflow protection	@	\$40.00 /lin ft.	=	\$960.00
i. 182 lin.ft. 24" bypass pipe	@	\$30.00 /lin ft.	=	\$5,460.00
j. 2 each sediment trap	@	\$5,000.00 /ea.	=	\$10,000.00
2. SUBTOTAL =				\$55,470.00

3. STORM DRAINS AND STORM WATER MANAGEMENT FACILITIES

a. 469.5 lin. ft. of 6" PVC pipe	@	\$20.00 /lin. ft.	=	\$9,390.00
b. 118.7 lin. ft. of 8" PVC pipe	@	\$20.00 /lin. ft.	=	\$2,374.00
c. 411.3 lin. ft. of 12" HDPE pipe	@	\$28.00 /lin. ft.	=	\$11,516.40
d. 327.4 lin. ft. of 15" HDPE pipe	@	\$32.00 /lin. ft.	=	\$10,476.80
e. 314.1 lin. ft. of 18" HDPE pipe	@	\$34.00 /lin. ft.	=	\$10,679.40
f. 147 lin. ft. of 24" HDPE pipe	@	\$42.00 /lin. ft.	=	\$6,174.00
g. 1 each headwall	@	\$1,500.00 /each	=	\$1,500.00
h. 12 each inlets (6' depth)	@	\$3,000.00 /each	=	\$36,000.00
i. 2 vert. ft. additional depth	@	\$150.00 /vert. ft.	=	\$300.00
j. 12 each manholes (6' depth)	@	\$2,500.00 /each	=	\$30,000.00
k. 25 vert. ft. additional depth	@	\$150.00 /vert. ft.	=	\$3,750.00
l. 3714 lin. ft. curb & gutter	@	\$20.00 /lin ft.	=	\$74,280.00
m. 4 each microbioretention	@	\$15,000.00 /each	=	\$60,000.00
n. 2 each stormfilter	@	\$15,000.00 /each	=	\$30,000.00
o. 1 each stormceptor	@	\$15,000.00 /each	=	\$15,000.00
p. 1 each Filterra Box	@	\$15,000.00 /each	=	\$15,000.00
q. 3600 Sq Ft Green Roof	@	\$5.00 / Sq Ft	=	\$18,000.00
Proposed SPSC System:				
r. 129 cu.yds. sandstone boulders	@	\$240.00 /cu.yds	=	\$30,960.00
s. 59 cu.yds. cobble (d50=8")	@	\$90.00 /cu.yds	=	\$5,310.00
t. 130 sq.yds. geotextile	@	\$4.00 /sq.yds	=	\$720.00
u. 69 cu.yds. wood chips (30% underbed)	@	\$25.00 /cu.yds	=	\$1,725.00
v. 160 cu.yds. sand (70% underbed)	@	\$60.00 /cu.yds	=	\$9,600.00
w. 34 cu.yds. compost	@	\$50.00 /cu.yds	=	\$1,700.00
x. 1 SWM plantings (see attached cost estimate)	@	\$16,775.00 /each	=	\$16,775.00
3. SUBTOTAL =				\$401,230.60

4. WATER MAINS

a.	94	lin. ft. of 2" copper pipe	@	\$15.00 /lin. ft.	=	\$1,410.00
b.	34	lin. ft. of 4" ductile iron pipe	@	\$50.00 /lin. ft.	=	\$1,700.00
c.	54	lin. ft. of 6" ductile iron pipe	@	\$56.00 /lin. ft.	=	\$3,024.00
d.	745	lin. ft. of 8" ductile iron pipe	@	\$60.00 /lin. ft.	=	\$44,700.00
e.	2	each 2" Meter and Vault	@	\$2,500.00 /each	=	\$5,000.00
f.	4	each 6" Fire Hydrant	@	\$4,500.00 /each	=	\$18,000.00

4. SUBTOTAL = \$73,834.00

5. SEWER MAINS

a.	419.3	lin. ft. of 6" sewer pipe	@	\$18.00 /lin. ft.	=	\$7,547.40
b.	118.1	lin. ft. of 8" sewer pipe	@	\$20.00 /lin. ft.	=	\$2,362.00
c.	3	each manholes	@	\$2,500.00 /each	=	\$7,500.00
d.	1	each Oil/Grit Separator	@	\$10,000.00 /each	=	\$10,000.00

5. SUBTOTAL = \$27,409.40

6. ROADWAY

a.	5845	sq. yds. 2" HMA surface course	@	\$3.00 /sq.yds./in	=	\$35,070.00
b.	4214	sq. yds. 3" HMA base course	@	\$4.00 /sq.yds./in	=	\$50,568.00
c.	1631	sq. yds. 4" HMA base course	@	\$4.00 /sq.yds./in	=	\$26,096.00
d.	5845	sq. yds. 6" gravel base course	@	\$8.00 /sq.yds.	=	\$46,760.00
e.	826	sq. yds. 6" Concrete	@	\$4.00 /sq.yds./in	=	\$19,824.00
f.	826	sq. yds. 6" gravel base course	@	\$8.00 /sq.yds.	=	\$6,608.00
g.	3	each handicap ramp	@	\$800.00 /Each	=	\$2,400.00
h.	4	each wheel stops	@	\$200.00 /Each	=	\$800.00
i.	963	sq. ft. concrete sidewalk	@	\$4.00 /Sq. Ft	=	\$3,852.00

6. SUBTOTAL = \$191,978.00

7. LANDSCAPING (AFFORESTATION/SWM/LANDSCAPING)

a. Attach landscaping estimate information
 Bond estimate value shall be 120% of attached
 estimated value

7. SUBTOTAL = \$50,598.00

TOTAL ESTIMATED COST:	<u>\$938,520.00</u>
PREVIOUSLY POSTED SECURITY	\$606,601.50
(ADDITIONAL SECURITY REQUIRED)	\$331,918.50

B. SCHEDULE

NOTABLE APPLICATION FEE

(Complete application is submitted and deducted from permit fee when permit is issued)

Total cost under \$500	\$110.00
Total cost under \$501 to 2,000	\$160.00
Total cost under \$2,001 to 50,000	\$265.00
Total cost under \$50,001 to 100,000	\$370.00
Total cost under \$100,001 to 200,000	\$475.00
Total cost under \$200,000 and over	\$580.00

SOIL CONSERVATION REVIEW FEE (Paid at the time of permit submittal)

\$200.00

GRADING PERMIT FEE (Based on estimated cost of site work)

Total cost under \$500	\$110.00
Total cost under \$501 to 2,000	\$160.00
\$2,001 OR 3% of estimated cost of site work plus \$265	

ESTIMATED GRADING PERMIT FEE (based on above Grading Permit Fee schedule)

\$28,420.60

Paid at Submittal

\$18,463.05

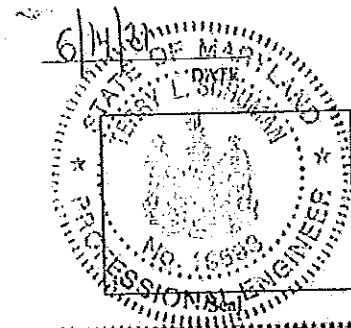
Owed

\$9,957.55

C. SIGNATURE AND SEAL OF ENGINEER WHO PREPARED THIS COMPUTATION SHEET:

Terry Sciman
SIGNATURE

TERRY SCIMAN
PRINTED (TYPED) NAME



DEPARTMENT OF NEIGHBORHOOD AND ENVIRONMENTAL PROGRAMS USE ONLY:

Approved & submitted: _____	Reviewed by: _____	Date: _____
Revision required as marked: _____	Reviewed by: _____	Date: _____
Revision approved: _____	Reviewed by: _____	Date: _____

4. WATER MAINS

a.	94	lin. ft. of 2" copper pipe	@	\$15.00 /lin. ft.	=	\$1,410.00
b.	34	lin. ft. of 4" ductile iron pipe	@	\$50.00 /lin. ft.	=	\$1,700.00
c.	34	lin. ft. of 6" ductile iron pipe	@	\$56.00 /lin. ft.	=	\$3,024.00
d.	745	lin. ft. of 8" ductile iron pipe	@	\$60.00 /lin. ft.	=	\$44,700.00
e.	2	each 2" Meter and Vault	@	\$2,500.00 /each	=	\$5,000.00
f.	4	each 6" Fire Hydrant	@	\$4,500.00 /each	=	\$18,000.00

4. SUBTOTAL = \$73,834.00

5. SEWER MAINS

a.	419.3	lin. ft. of 6" sewer pipe	@	\$18.00 /lin. ft.	=	\$7,547.40
b.	118.1	lin. ft. of 8" sewer pipe	@	\$20.00 /lin. ft.	=	\$2,362.00
c.	3	each manholes	@	\$2,500.00 /each	=	\$7,500.00
d.	1	each Oil/Grit Separator	@	\$10,000.00 /each	=	\$10,000.00

5. SUBTOTAL = \$27,409.40

6. ROADWAY

a.	5845	sq. yds. 2" HMA surface course	@	\$3.00 /sq.yds./in	=	\$35,070.00
b.	4214	sq. yds. 3" HMA base course	@	\$4.00 /sq.yds./in	=	\$50,568.00
c.	1631	sq. yds. 4" HMA base course	@	\$4.00 /sq.yds./in	=	\$26,096.00
d.	5845	sq. yds. 6" gravel base course	@	\$8.00 /sq.yds.	=	\$46,760.00
e.	826	sq. yds. 6" Concrete	@	\$4.00 /sq.yds./in	=	\$19,824.00
f.	826	sq. yds. 6" gravel base course	@	\$8.00 /sq.yds.	=	\$6,608.00
g.	3	each handicap ramp	@	\$800.00 /Each	=	\$2,400.00
h.	4	each wheel stops	@	\$200.00 /Each	=	\$800.00
i.	963	sq.ft. concrete sidewalk	@	\$4.00 /Sq. Ft	=	\$3,852.00

6. SUBTOTAL = \$191,978.00

7. LANDSCAPING (AFFORESTATION/SWM/LANDSCAPING)

a. Attach landscaping estimate information
Bond estimate value shall be 120% of attached estimated value

7. SUBTOTAL = \$50,598.00

TOTAL ESTIMATED COST:	<u>\$938,520.00</u>
<i>PREVIOUSLY POSTED SECURITY</i>	\$606,601.50
<i>(ADDITIONAL SECURITY REQUIRED)</i>	\$331,918.50

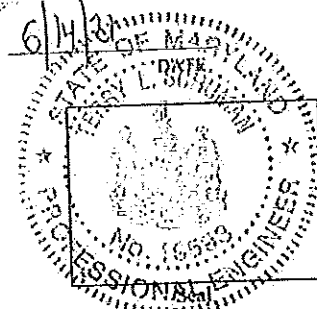
B. SCHEDULE

NON-Deductible APPLICATION FEE		
<i>(Cost of application is submitted and deducted from permit fee when permit is issued)</i>		
Total cost under \$500		\$110.00
Total cost under \$501 to 2,000		\$160.00
Total cost under \$2,001 to 50,000		\$265.00
Total cost under \$50,001 to 100,000		\$370.00
Total cost under \$100,001 to 200,000		\$475.00
Total cost under \$200,000 and over		\$580.00
SOIL SURVEY REVIEW FEE (Paid at the time of permit submittal)		\$200.00
GRADING PERMIT FEE (Based on estimated cost of site work)		\$110.00
Total cost under \$500		\$160.00
Total cost under \$501 to 2,000		
\$2,001 or 3% of estimated cost of site work plus \$265		
ESTIMATED GRADING PERMIT FEE (based on above Grading Permit Fee schedule)		\$28,420.60
Paid at Submittal		\$18,463.05
Owed		\$9,957.55

C. SIGNATURE AND SEAL OF ENGINEER WHO PREPARED THIS COMPUTATION SHEET:

10/1
SIGNATURE

TERRY SOJAN
PRINTED TYPED NAME



DEPARTMENT OF NEIGHBORHOOD AND ENVIRONMENTAL PROGRAMS USE ONLY:

Approved as submitted: _____ Reviewed by: _____ Date: _____

Revision required as marked: _____ Reviewed by: _____ Date: _____

Revision approved: _____ Reviewed by: _____ Date: _____



DEBORAH M. SCHWAB

LANDSCAPE ARCHITECTURE

409 Washington Street, Annapolis, MD 21403
Ph. 410. 268.5291 E mail: dschwabla@comcast.net

**ANNAPOLIS PUBLIC WORKS – HUDSON STREET
ESTIMATE FOR BOND**

PLANT LIST – SPSC SYSTEM

QT'Y	BOTANICAL NAME	COMMON NAME	SIZE	UNIT \$	TOTAL \$
58	Carex stricta	Tussock Sedge	1 qt	10	580
43	Clethra alnifolia	Summersweet	18"	40	1720
25	Conocarpus occidentalis	Buttonbush	1 gal	30	750
25	Ilex verticillata (inc 1 male)	Winterberry	30"	40	1000
27	Iris versicolor	Blue Flag Iris	1 qt	10	270
39	Itea virginica	Itea	1 gal	30	1170
73	Juncus effusus	Soft Rush	1 qt	10	730
8	Morella cerifera	Southern Waxmyrtle	24"	40	320
43	Osmunda cinnamomea	Cinnamon Fern	1 qt	10	430
31	Panicum virgatum	Switch Grass	1 qt	10	310
21	Viburnum dentatum	Arrowwood Viburnum	24"	40	840
				TOTAL	\$ 8120

PLANT LIST – SPSC SYSTEM-REFORESTATION

QT'Y	BOTANICAL NAME	COMMON NAME	SIZE	UNIT \$	TOTAL \$
2	Betula nigra	River Birch	1 – 1 1/2	250	500
4	Magnolia virginiana	Sweetbay Magnolia	1 – 1 1/2"	150	600
				TOTAL	\$ 1,100

PLANT LIST – STORMWATER MANAGEMENT

QT'Y	BOTANICAL NAME	COMMON NAME	SIZE	UNIT \$	TOTAL \$
4	Betula nigra	River Birch	8 -10'	250	860
16	Clethra alnifolia	Summersweet	18"	40	400
21	Ilex glabra 'shamrock'	'Shamrock' Inkberry	18"	50	735
33	Ilex verticillata (inc 1 male)	Winterberry	30"	50	990
29	Itea virginica 'Henry's Garnet'	Henry's Garnet Itea	18"	45	870
13	Magnolia virginiana	Sweetbay Magnolia	6-8'	100	1,300
21	Osmunda cinnamomea	Cinnamon Fern	1 qt	10	210
146	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	1 gal	15	2,190
				TOTAL	\$ 7,555

Above estimate is based upon 2021 wholesale prices from Angelica Nurseries, Inc., Tuckahoe Nursery, American Natives and Babikow Wholesale with a mark-up of 2.5 to cover installation and warranty.

TOTAL OF ESTIMATE: \$ 16,775 .00

Prepared By:
DEBORAH M. SCHWAB LANDSCAPE ARCHITECTURE

DATE: APRIL, 2021



DEBORAH M. SCHWAB

LANDSCAPE ARCHITECTURE

409 Washington Street, Annapolis, MD 21403

Ph. 410. 268.5291

E mail: dschwabla@comcast.net

**ANNAPOLIS PUBLIC WORKS – HUDSON STREET
ESTIMATE FOR BOND**

PLANT LIST - LANDSCAPE

QT'Y	BOTANICAL NAME	COMMON NAME	SIZE	UNIT \$	TOTAL \$
1	Acer rubrum	Red Maple	2 ½-3" cal.	475	475
5	Amelanchier canadensis	Serviceberry	1 ½ - 1 ¾" cal	385	1,925
5	Betula nigra	River Birch	2 ½-3" cal.	400	2,000
8	Cercis canadensis	Redbud	1 ½ - 1 ¾" cal	400	3,200
4	Chionanthus virginicus	Fringetree	1 ½ - 1 ¾" cal	400	1,600
24	Juniperus virginiana	Eastern Red Cedar	6 -7'	350	8,400
7	Lagerstroemia 'Zuni'	Zuni Crape Myrtle	1 ½-1 ¾" cal	275	1,925
5	Pinus taeda	Loblolly Pine	6 -7'	275	1,375
4	Platanus occidentalis	American Sycamore	2 ½-3" cal.	450	1,800
7	Quercus phellos	Willow Oak	2 ½-3" cal.	500	3,500
7	Thuja plicata	Western Arborvitae	6 -7'	240	1,680
17	Aronia melanocarpa	Black Chokeberry	24-30"	50	850
9	Hydrangea quercifolia	Oakleaf Hydrangea	24-30"	50	450
8	Hydrangea quercifolia 'Pee Wee'	Pee Wee Oakleaf Hydrangea	18-21"	50	400
12	Ilex glabra 'shamrock'	Shamrock Inkberry	18 -24"	50	600
20	Itea virginica 'Little Henry'	Little Henry Itea	18-21"	45	900
2	Juniperus 'Bar Harbor'	Bar Harbor Juniper	18-21" sprd	40	80
40	Juniperus virginiana 'Gray Owl'	Gray Owl Juniper	24 -30" sprd	50	2,000
63	Morella cerifera	Southern Waxmyrtle	24 -30"	55	3,465
16	Rhus aromatic	Fragrant Sumac	24 -30"	50	800
15	Rhus aromatic 'Grow Low'	Grow Low Fragrant Sumac	18-24" sprd	45	675
21	Viburnum dentatum	Arrowwood Viburnum	24-30"	50	1,050
36	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	1 gal	15	540
				TOTAL	39,690

PLANT LIST – REFORESTATION LANDSCAPE

QT'Y	BOTANICAL NAME	COMMON NAME	SIZE	UNIT \$	TOTAL \$
9	Pinus taeda	Loblolly Pine	6 -7'	275	2475

Above estimate is based upon 2021 wholesale prices from Angelica Nurseries, Inc., Tuckahoe Nursery, American Natives and Babikow Wholesale with a mark-up of 2.5 to cover installation and warranty.

TOTAL OF ESTIMATE: \$ 42,165.00 × 1.2 = \$ 50,598

Prepared By:
DEBORAH M. SCHWAB LANDSCAPE ARCHITECTURE

DATE: APRIL, 2021