CITY OF VIRGINIA BEACH
Planning & Community Development

Engineer's Cost Estimate - ROW

DEVELOPMENT SERVICES CENTER
VirginiaBeach.gov/DSC
(757) 385-4621 | DSC@VBgov.com

This form is for review of Engineer's Cost Estimates for work in existing right of way, proposed right of way as part of a Subdivision Construction Plan, and existing or proposed public easements. The provided estimate must be reviewed and approved by City Staff before we can accept a right of way or subdivision surety. This form can also be used for requesting a reduction to an existing subdivision surety.

The following items are required to be submitted for review. Please note that the submittal will be checked for completeness prior to acceptance for review. Incomplete submittals will not be accepted.

1) Exhibit of included work—The exhibit should include an overall layout of the project, and highlight all work included in the cost estimate. For surety reduction requests, the exhibit should separately highlight all work already completed and work to be completed. Submit electronic document via our online web portal. (No fee required)
2) Completed Engineer's Cost Estimate worksheet included on the following pages.

What is the name of the project and/or site location?

_____

What is the Tax ID #? (This information is needed for streetlight billing purposes only)

_____

What is the associated DSC File #?

Provide below any additional information that would be helpful for staff in our review and approval of this cost estimate:

Certification:
I certify as the Design Professional of record that I have examined this estimate and to the best of my knowledge and belief this fairly represents the cost to complete the work as shown.

_____	_____	_____
Printed Name	Signature	Date

_____
Professional Seal

IMPROVEMENTS TO BE COMPLETED

I.	Preliminary Site Work	$ 0
II.	Street, Sidewalk, etc.	$ 0
III.	Storm Drainage System/Stormwater Management Facility Systems	$ 0
IV.	Traffic Control Only	$ 0
*V.	Street Lights Only	$ 0
VI.	Water System	$ 0
VII.	Sanitary Sewer System	$ 0
VIII.	Pump Station & Force Main	$ 0
IX.	Landscaping	$ 0
*X.	As-Built Drawings	$ 0
XI.	Miscellaneous	$ 0
TOTAL:		$ 0

* Not to be included in the defect surety calculation.

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IMPROVEMENTS COMPLETED

I.	Preliminary Site Work	$
II.	Street, Sidewalk, etc.	$
III.	Storm Drainage System/Stormwater Management Facility Systems	$
IV.	Traffic Control Only	$
V.	Street Lights Only	$
VI.	Water System	$
VII.	Sanitary Sewer System	$
VIII.	Pump Station & Force Main	$
IX.	Landscaping	$
X.	Miscellaneous	$

TOTAL $ 0

DEFECT BOND $ _____

DETAIL WORKSHEET

I. PRELIMINARY SITE WORK:

Clearing & Grubbing	_____	_____AC.	@ $_____/AC.	= $	0
Excavation	_____	_____C.Y.	@ $_____C.Y.	= $	0
Fill	_____	_____C.Y.	@ $_____C.Y.	= $	0
Other _____	_____	_____	@ $_____	= $	0
_____	_____	_____	@ $_____	= $	0

SUB-TOTAL $ 0

II. STREETS, SIDEWALKS, ETC.:

Damages to existing;					
Sidewalks	_____	_____S.Y.	@ $_____ S.Y.		0
Streets	_____	_____TONS	@ $_____ TONS		0
___Asphalt Base	_____	_____TONS	@ $_____ TONS		0
___Asphalt Base	_____	_____TONS	@ $_____ TONS		0
___Graded Aggre. Base	_____	_____TONS	@ $_____ TONS		0
___Graded Aggre. Base	_____	_____TONS	@ $_____ TONS		0
___Bit. Conc. Surface	_____	_____TONS	@ $_____ TONS		0
___Bit. Conc. Surface	_____	_____TONS	@ $_____ TONS		0
2' Curb & Gutter	_____	_____L.F.	@ $_____/L.F.	= $	0
2.5' Curb & Gutter	_____	_____L.F.	@ $_____/L.F.	= $	0
Plain Curb	_____	_____L.F.	@ $_____/L.F.	= $	0
Std. 4" Conc. Sidewalk	_____	_____S.Y.	@ $_____/S.Y.	= $	0
Valley Gutter	_____	_____L.F.	@ $_____/L.F.	= $	0
___Lime Stabilization	_____	_____S.Y.	@ $_____/S.Y.	= $	0
City/State Stand. Curb	_____	_____L.F.	@ $_____/L.F.	= $	0
Handicap Ramp	_____	_____EA.	@ $_____/EA.	= $	0
Concrete Aprons	_____	_____S.Y.	@ $_____/EA.	= $	0
Other _____	_____	_____	@ $_____/	= $	0
_____	_____	_____	@ $_____/	= $	0

SUB-TOTAL $ 0

III. STORM DRAINAGE SYSTEM:

A.

12" Pipe	_____	_____L.F.	@ $_____/L.F.	= $	0
15" Pipe	_____	_____L.F.	@ $_____/L.F.	= $	0
18" Pipe	_____	_____L.F.	@ $_____/L.F.	= $	0

III. STORM DRAINAGE SYSTEM (CONTINUED):

21" Pipe	_____	_____	L.F.	@ $_____/L.F.	= $ 0
24" Pipe	_____	_____	L.F.	@ $_____/L.F.	= $ 0
27" Pipe	_____	_____	L.F.	@ $_____/L.F.	= $ 0
30" Pipe	_____	_____	L.F.	@ $_____/L.F.	= $ 0
36" Pipe	_____	_____	L.F.	@ $_____/L.F.	= $ 0
42" Pipe	_____	_____	L.F.	@ $_____/L.F.	= $ 0
48" Pipe	_____	_____	L.F.	@ $_____/L.F.	= $ 0
54" Pipe	_____	_____	L.F.	@ $_____/L.F.	= $ 0
60" Pipe	_____	_____	L.F.	@ $_____/L.F.	= $ 0
X CMPA	_____	_____	L.F.	@ $_____/L.F.	= $ 0
X CMPA	_____	_____	L.F.	@ $_____/L.F.	= $ 0
X CMPA	_____	_____	L.F.	@ $_____/L.F.	= $ 0
Canal Excavation	_____	_____	C.Y.	@ $_____/C.Y.	= $ 0
Flared Inlet Sections	_____	_____	EA.	@ $_____/EA.	= $ 0
Std. Catch Basin	_____	_____	EA.	@ $_____/EA.	= $ 0
Double Catch Basin	_____	_____	EA.	@ $_____/EA.	= $ 0
Yard Drop Inlet	_____	_____	EA.	@ $_____/EA.	= $ 0
Std. Manhole	_____	_____	EA.	@ $_____/EA.	= $ 0
Conflict Manhole	_____	_____	EA.	@ $_____/EA.	= $ 0
Conc. Endwall (EW-1)	_____	_____	EA.	@ $_____/EA.	= $ 0
Conc. Endwall (EW-2)	_____	_____	EA.	@ $_____/EA.	= $ 0
Rip Rap	_____	_____	TONS	@ $_____ TONS	= $ 0
Flared End Section (FES-1) (12")	_____	_____	EA.	@ $_____/EA.	= $ 0
Flared End Section (FES-1) (15")	_____	_____	EA.	@ $_____/EA.	= $ 0
Flared End Section (FES-1) (36")	_____	_____	EA.	@ $_____/EA.	= $ 0
System Preparation for Video Inspection	_____	_____	EA.	@ $_____/EA.	= $ 0
Other _____	_____	_____		@ $_____/	= $ 0
_____	_____	_____		@ $_____/	= $ 0
_____	_____	_____		@ $_____/	= $ 0

B. SUBDIVISION STORMWATER MANAGEMENT FACILITY SYSTEMS:*

Infiltration	L.S.	= $ _____
Detention	L.S.	= $ _____
Retention	L.S.	= $ _____

SUB-TOTAL $ 0

* NOTE: Unit cost and break down for various Stormwater Management Facility Systems must be reviewed and approved by Planning/Development Services Center (DSC). Lump sum shown here is for bonding purposes only.

IV. TRAFFIC CONTROL:

Intersection	_____	_____EA.	@ $_____/EA.	= $ 0
Street Name Blade & Street Sign	_____	_____EA.	@ $_____/EA.	= $ 0
Painting/Striping	_____	_____L.F.	@ $_____/L.F.	= $ 0
Delineators/Roadway Legends	_____	_____EA.	@ $_____/EA.	= $ 0
Misc. Traffic Control	_____	_____	@ $_____	= $ 0
Barricades	_____	_____EA.	@ $_____/EA.	= $ 0
Blue Pavement Markers	_____	_____EA.	@ $_____/EA.	= $ 0

SUB-TOTAL $ 0

V. STREET LIGHTS:

Lights (existing, upgrade)	_____	_____EA.	@ $_____/EA.	= $ 0
Lights (70/100/150 watt)	_____	_____EA.	@ $_____/EA.	= $ 0
Lights (250 watt)	_____	_____EA.	@ $_____/EA.	= $ 0
Lights (150/250 watt twin)	_____	_____EA.	@ $_____/EA.	= $ 0
Pole Relocation w/streetlight	_____	_____EA.	@ $_____/EA.	= $ 0
Traffic Signal	_____	_____EA.	@ $_____/EA.	= $ 0

SUB-TOTAL $ 0

VI. WATER SYSTEM:

4" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
6" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
8" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
10" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
12" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
16" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
18" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
20" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
24" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
30" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
36" Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
Tie to Existing Water Lines	_____	_____EA.	@ $_____/EA.	= $ 0
Offset Water Main (Size)	_____	_____L.F.	@ $_____/L.F.	= $ 0
Jack and Bore Water Main	_____	_____L.F.	@ $_____/L.F.	= $ 0
16” Welded Steel Casing Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
18” Welded Steel Casing Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
20” Welded Steel Casing Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0

VI. WATER SYSTEM (CONTINUED):

24" Welded Steel Casing Pipe	_____	_____L.F.	@ $_____/L.F.	= $	0
Cut and Plug Water Main	_____	_____EA.	@ $_____/EA.	= $	0
Remove Water Line Pipe	_____	_____L.F.	@ $_____/L.F.	= $	0

A. APPURTENANCES:

4" Gate Valves	_____	_____EA.	@ $_____/EA.	= $	0
6" Gate Valves	_____	_____EA.	@ $_____/EA.	= $	0
8" Gate Valves	_____	_____EA.	@ $_____/EA.	= $	0
10" Gate Valves	_____	_____EA.	@ $_____/EA.	= $	0
12" Gate Valves	_____	_____EA.	@ $_____/EA.	= $	0
16" Butterfly Valves	_____	_____EA.	@ $_____/EA.	= $	0
18" Butterfly Valves	_____	_____EA.	@ $_____/EA.	= $	0
20" Butterfly Valves	_____	_____EA.	@ $_____/EA.	= $	0
24" Butterfly Valves	_____	_____EA.	@ $_____/EA.	= $	0
30" Butterfly Valves	_____	_____EA.	@ $_____/EA.	= $	0
36" Butterfly Valves	_____	_____EA.	@ $_____/EA.	= $	0
Air Vents	_____	_____EA.	@ $_____/EA.	= $	0
Air Release Valves	_____	_____EA.	@ $_____/EA.	= $	0
2" Blow Off Valves	_____	_____EA.	@ $_____/EA.	= $	0
Adjust Valve Boxes to Grade	_____	_____EA.	@ $_____/EA.	= $	0
Relocate Valve	_____	_____EA.	@ $_____/EA.	= $	0
Fire Hydrants	_____	_____EA.	@ $_____/EA.	= $	0
Replace Fire Hydrants	_____	_____EA.	@ $_____/EA.	= $	0
Relocate Fire Hydrants	_____	_____EA.	@ $_____/EA.	= $	0
Bends (Size and Angle)	_____	_____EA.	@ $_____/EA.	= $	0
Tapping Sleeves (Size)	_____	_____EA.	@ $_____/EA.	= $	0
Tapping Saddles (Size)	_____	_____EA.	@ $_____/EA.	= $	0
Tees (Size)	_____	_____EA.	@ $_____/EA.	= $	0
Crosses (Size)	_____	_____EA.	@ $_____/EA.	= $	0
Reducers (Size)	_____	_____EA.	@ $_____/EA.	= $	0
Remove Reducers (Size)	_____	_____EA.	@ $_____/EA.	= $	0
Plugs (Size)	_____	_____EA.	@ $_____/EA.	= $	0
Thrust Protection	_____	_____EA.	@ $_____/EA.	= $	0
Joint Restraint	_____	_____EA.	@ $_____/EA.	= $	0
Kicker Joints	_____	_____EA.	@ $_____/EA.	= $	0
Corrosion Protection	_____	_____EA.	@ $_____/EA.	= $	0
Water Main Bridge Suspension	_____	_____EA.	@ $_____/EA.	= $	0
1" Water Services, Up to 50'	_____	_____EA.	@ $_____/EA.	= $	0
1" Water Services Over 50'	_____	_____L.F.	@ $_____/L.F.	= $	0

A. APPURTENANCES (CONTINUED):

1 1/2" Water Services, Up to 50'	_____	_____EA.	@ $_____/EA.	= $	0
1 1/2" Water Services Over 50'	_____	_____L.F.	@ $_____/L.F.	= $	0
2" Water Services, Up to 50'	_____	_____EA.	@ $_____/EA.	= $	0
2" Water Services Over 50'	_____	_____L.F.	@ $_____/L.F.	= $	0
3" Water Services, Up to 50'	_____	_____EA.	@ $_____/EA.	= $	0
3" Water Services Over 50'	_____	_____L.F.	@ $_____/L.F.	= $	0
4" Water Services	_____	_____L.F.	@ $_____/L.F.	= $	0
6" Water Services	_____	_____L.F.	@ $_____/L.F.	= $	0
8" Water Services	_____	_____L.F.	@ $_____/L.F.	= $	0
Jack and Bore Service Line	_____	_____L.F.	@ $_____/L.F.	= $	0
Relocate ¾" Service Line	_____	_____L.F.	@ $_____/L.F.	= $	0
Relocate 1" Service Line	_____	_____L.F.	@ $_____/L.F.	= $	0
Relocate 1.5" Service Line	_____	_____L.F.	@ $_____/L.F.	= $	0
Relocate 2" Service Line	_____	_____L.F.	@ $_____/L.F.	= $	0
Relocate 3" Service Line	_____	_____L.F.	@ $_____/L.F.	= $	0
Cut and Cap Service at Main	_____	_____EA.	@ $_____/EA.	= $	0
Cap Service at Back of Curb	_____	_____EA.	@ $_____/EA.	= $	0
Cap Service at Meter Box	_____	_____EA.	@ $_____/EA.	= $	0
Turn Off and Cap Corporation	_____	_____EA.	@ $_____/EA.	= $	0
Abandon Service at Main	_____	_____L.F.	@ $_____/L.F.	= $	0
Remove Service Line	_____	_____L.F.	@ $_____/L.F.	= $	0
Corporation Stop (Size)	_____	_____EA.	@ $_____/EA.	= $	0
Other _____	_____	_____	@ $_____/	= $	0
_____	_____	_____	@ $_____/	= $	0
_____	_____	_____	@ $_____/	= $	0
_____	_____	_____	@ $_____/	= $	0

SUB-TOTAL $ 0

VII. SANITARY SEWER SYSTEM:

Protecto 401 Class 52 D.I. Pipe (<3')_____		_____L.F.	@ $_____/L.F.	= $	0
Protecto 401 Class 52 D.I. Pipe (<3')_____		_____L.F.	@ $_____/L.F.	= $	0
Protecto 401 Class 52 D.I. Pipe (<3')_____		_____L.F.	@ $_____/L.F.	= $	0
P.V.C. SDR26 Pipe (3'-12')	_____	_____L.F.	@ $_____/L.F.	= $	0
P.V.C. SDR26 Pipe (3'-12')	_____	_____L.F.	@ $_____/L.F.	= $	0
P.V.C. SDR26 Pipe (3'-12')	_____	_____L.F.	@ $_____/L.F.	= $	0
P.V.C. C900 (DR18) Pipe (>12')	_____	_____L.F.	@ $_____/L.F.	= $	0

VII. SANITARY SEWER SYSTEM (CONTINUED):

P.V.C. C900 (DR18) Pipe (>12')			L.F.	@ $ /L.F.	= $ 0
P.V.C. C900 (DR18) Pipe (>12')			L.F.	@ $ /L.F.	= $ 0
P.V.C. C905 (DR18) Pipe (>12')			L.F.	@ $ /L.F.	= $ 0
P.V.C. C905 (DR18) Pipe (>12')			L.F.	@ $ /L.F.	= $ 0
P.V.C. C905 (DR18) Pipe (>12')			L.F.	@ $ /L.F.	= $ 0
MH Frames & Covers			EA.	@ $ /EA.	= $ 0
MH Dust Covers			EA.	@ $ /EA.	= $ 0
22" Manhole Inserts			EA.	@ $ /EA.	= $ 0
Shallow Precast SS Manholes			V.F.	@ $ /V.F.	= $ 0
Shallow Brick SS Manholes			V.F.	@ $ /V.F.	= $ 0
4' Dia. Manholes (0'-12' Deep)			V.F.	@ $ /V.F.	= $ 0
5' Dia. Manholes (12'-16' Deep)			V.F.	@ $ /V.F.	= $ 0
5' Dia. Drop Manholes			V.F.	@ $ /V.F.	= $ 0
Inside Drop Connection			EA.	@ $ /EA.	= $ 0
Manhole Coating/Lining			V.F.	@ $ /V.F.	= $ 0
Core Drill Ex. SMH for Lateral			EA.	@ $ /EA.	= $ 0
MH Connection for Lateral			EA.	@ $ /EA.	= $ 0
Core Drill Ex. SMH for SS Main			EA.	@ $ /EA.	= $ 0
MH Connection for SS Main			EA.	@ $ /EA.	= $ 0
Adjust Existing Manhole			EA.	@ $ /EA.	= $ 0
Wyes (Size)			EA.	@ $ /EA.	= $ 0
Wyes (Size)			EA.	@ $ /EA.	= $ 0
(Replace 10' min. Sewer Main)			L.F.	@ $ /L.F.	= $ 0
Protecto 401 Class 52 D.I. Lat. Pipe			L.F.	@ $ /L.F.	= $ 0
Protecto 401 Class 52 D.I. Lat. Pipe			L.F.	@ $ /L.F.	= $ 0
P.V.C. SDR26 Lateral Pipe			L.F.	@ $ /L.F.	= $ 0
P.V.C. SDR26 Lateral Pipe			L.F.	@ $ /L.F.	= $ 0
P.V.C. C900 (DR18) Lateral Pipe			L.F.	@ $ /L.F.	= $ 0
P.V.C. C900 (DR18) Lateral Pipe			L.F.	@ $ /L.F.	= $ 0
P.V.C. C905 (DR18) Lateral Pipe			L.F.	@ $ /L.F.	= $ 0
P.V.C. C905 (DR18) Lateral Pipe			L.F.	@ $ /L.F.	= $ 0
Lateral Cleanout Assembly			EA.	@ $ /EA.	= $ 0
Lateral Drop Connection			EA.	@ $ /EA.	= $ 0
Tie to Existing Sewer			EA.	@ $ /EA.	= $ 0
Plug Existing Pipe			EA.	@ $ /EA.	= $ 0
Other				@ $ /	= $ 0
				@ $ /	= $ 0
				@ $ /	= $ 0

SUB-TOTAL $ 0

VIII. PUMP STATION & FORCE MAIN:

Pump Station	_____	_____L.S.	@ $_____/L.S.	= $ 0
Pump Station Upgrade	_____	_____L.S.	@ $_____/L.S.	= $ 0
Protecto 401 Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
Protecto 401 Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
Protecto 401 Class 52 D.I. Pipe	_____	_____L.F.	@ $_____/L.F.	= $ 0
FM Air Release Valves	_____	_____EA.	@ $_____/EA.	= $ 0
FM Tapping Sleeves (Size)	_____	_____EA.	@ $_____/EA.	= $ 0
FM Valves (Size)	_____	_____EA.	@ $_____/EA.	= $ 0
FM Bends (Size)	_____	_____EA.	@ $_____/EA.	= $ 0
FM Tees (Size)	_____	_____EA.	@ $_____/EA.	= $ 0
FM Reducers (Size)	_____	_____EA.	@ $_____/EA.	= $ 0
FM Plugs (Size)	_____	_____EA.	@ $_____/EA.	= $ 0
Saxophone Connection	_____	_____EA.	@ $_____/EA.	= $ 0
Manhole H2S Coating	_____	_____V.F.	@ $_____/V.F.	= $ 0
FM Air Vents	_____	_____EA.	@ $_____/EA.	= $ 0
FM Blow Off Valves	_____	_____EA.	@ $_____/EA.	= $ 0
FM Tapping Sleeve (Size)	_____	_____EA.	@ $_____/EA.	= $ 0
Other _____	_____	_____	@ $_____/	= $ 0
_____	_____	_____	@ $_____/	= $ 0

SUB-TOTAL $ 0

IX. LANDSCAPING:

A. Subdivision Ordinance Requirement

Street Trees	_____	_____	@ $_____/	= $ 0
Screening Plant Material	_____	_____	@ $_____/	= $ 0
Fencing	_____	_____	@ $_____/	= $ 0
Berms	_____	_____	@ $_____/	= $ 0

SUB-TOTAL $ 0

B. Site Plan Ordinance Requirement - **complete only if certificate of occupancy <u>is not</u> required**

Parking Lot	_____	_____	@ $_____/	= $ 0
Foundation	_____	_____	@ $_____/	= $ 0
Street Frontage	_____	_____	@ $_____/	= $ 0
Fencing	_____	_____	@ $_____/	= $ 0
Berms	_____	_____	@ $_____/	= $ 0

SUB-TOTAL $ 0

IX. LANDSCAPING (CONTINUED):

C. Zoning Ordinance Requirement - **complete only if certificate of occupancy <u>is not</u> required**

Screening Plant Material			@ $ /	= $ 0
Fencing			@ $ /	= $ 0
Berms			@ $ /	= $ 0

SUB-TOTAL $ 0

D. Other

			@ $ /	= $ 0
			@ $ /	= $ 0
			@ $ /	= $ 0
			@ $ /	= $ 0

SUB-TOTAL $ 0

TOTAL $ 0

X. AS-BUILT DRAWINGS:

Overall As-Builts			@ $ /	= $ 0
Monuments:			@ $ /	= $ 0

SUB-TOTAL $ 0

TOTAL $ 0

XI. MISCELLANEOUS:

			@ $ /	= $ 0
			@ $ /	= $ 0
			@ $ /	= $ 0
			@ $ /	= $ 0

TOTAL $ 0