

COUNTY OF FAIRFAX, VIRGINIA
 DEPARTMENT OF PUBLIC WORKS ENVIRONMENTAL SERVICES
 LAND DEVELOPMENT SERVICES
 2016 COMPREHENSIVE UNIT PRICE SCHEDULE
 EFFECTIVE FEBRUARY 1, 2016

CATEGORY	ENGLISH UNIT PRICE	UNIT
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GENERAL CONDITIONS

Field Offices and Temp Facilities
 General Supervision
 Job Sign
 Mobilization

See Note below*

NOTE:

As a % of total for Surety Value Estimate (SVE):

* **Minimum of \$12,600.00 for estimates up to \$252K (Item 8 on SVE Form) plus 5% of amount over \$252K**
 (Item will automatically calculate under Section 9 on SVE Spreadsheet)

CLEAR & GRUB

Heavy	\$ 14,418.53	AC
Light	\$ 7,522.72	AC
Moderate	\$ 11,284.07	AC
Very Heavy	\$ 16,299.21	AC

LIGHT: Grading less than 2 feet in depth. Remove vegetation, grass areas and small shrubs, small trees less than 12 inches in diameter, small out buildings less than 200 square feet, remove small utilities, e.g., water feeder lines, sanitary laterals, small gas and electrical feeds.

MODERATE: In addition to all under the Light category, grading of 2 feet to 4 feet depth, remove trees 12 inches to 24 inches in diameter, remove large shrubs up 48 inches in diameter. Remove all utility feeds, sanitary sewer pipe up to 8 inches, water lines up to 6 inches, storm sewer up to 15 inches, and gravel drive ways. Remove fencing and clear light industrial areas with small light poles.

HEAVY: In addition to all included in Light and Moderate categories: Remove trees 24 inches to 36 inches, grading not exceeding 5 feet in depth. Remove heavy brush and undergrowth in wooded areas. Remove sanitary sewer larger than larger than 8 inches, and storm sewer from 15 inches to 27 inches. Remove utility poles, underground utility lines, and boxes/vaults of same. Remove water service lines up to 8 inches.

VERY HEAVY: In addition to the first three category descriptions: Grading exceeding 5 feet of cut. Clear/remove heavily wooded areas with trees exceeding 36 inches diameter. Remove parking lot asphalt parking lot asphalt and curb and gutter. Remove pools and inground spas and all associated footings and foundations. Remove large fencing built with iron/steel pickets, razor wire, brick or concrete piers/foundations greater than 36 inches in diameter/on a side. Remove sanitary sewer pipes larger than 24 inches and septic systems/fields. Remove storm sewer pipe larger than 27 inches, remove large underground detention structures/vaults. Remove large/main water lines greater than 8 inches. Remove underground storage tanks.

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DEMOLITION		
Abandon pipes	\$ 188.07	EA
Bituminous Pavement		
Up to 4" and dispose	\$ 7.52	SY
Building Demo includes demolition, load, haul and dump fee		
Building, Small, Masonry	\$ 0.83	CF
Building, Small, Wood	\$ 0.69	CF
Haul, Rubbish, 10 mi. R/T	\$ 31.35	CY
Concrete Pavement and Sidewalk WWF Reinforced and Disposal		
Non-reinforced	\$ 12.54	SY
WWF reinforced	\$ 15.05	SY
Guardrail:		
Remove and reset	\$ 37.61	LF
Remove traffic barricade	\$ 161.74	EA
Reset	\$ 15.05	LF
Manholes/structures (Sanitary & Storm)	\$ 450.11	EA
Pipe		
6" - 12"	\$ 43.89	LF
15" - 24"	\$ 56.43	LF
Relocate exist utility pole with wires - urban setting: (See NOTE: below)		
Multiple circuits, with devices	\$ 94,033.92	EA
One Phase, with secondary	\$ 31,344.64	EA
Three Phase, with secondary	\$ 62,689.29	EA
NOTE: A written quote from the appropriate utility company defining/detailing the full scope of work to accomplish relocation work may be submitted for review in lieu of these assigned prices.		
Relocate underground power		
Encased duct bank, includes cable	\$ 1,082.02	LF
Single phase, includes trenching	\$ 144.19	LF
Three phase, includes trenching	\$ 288.37	LF
EARTHWORK		
Borrow Material		
Borrow (Buy/Load) non-structural fill less than 5000 CY	\$ 25.08	CY
Borrow (Buy/Load) non-structural fill greater than 5000 CY	\$ 21.94	CY
Borrow (Buy/Load) select structural fill less than 5000 CY	\$ 34.48	CY
Borrow (Buy/Load) select structural fill great than 5000 CY	\$ 31.35	CY
Excavation		
Rock, Blast	\$ 75.23	CY
Rock, Rip	\$ 31.35	CY
Rock, Hoe ram	\$ 75.23	CY
Used as fill on site regular bulk less than 5000 CY	\$ 31.35	CY
Used as fill on site regular bulk greater than 5000 CY	\$ 25.08	CY
Grading		
Site Grading - After cut/fill - rough grading	\$ 0.83	SY
Site Grading - Fine grading - dressed slopes	\$ 0.96	SY
Site Grading - Fine grading - relatively flat	\$ 0.62	SY
Unsuitable Material		
Dump Charge-unsuitable material	\$ 43.89	CY
Load and haul, 20 mile round trip average	\$ 25.08	CY

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CATEGORY	ENGLISH UNIT PRICE	UNIT
ENGINEERING AND SURVEY		
As-Built Drawing		
Plan Processing As-Built Drawing	\$ 788	LS
Survey As-Built (minimum)	\$ 4,795	LS
Dry Pond	\$ 1,504.55	AC
Wet Pond	\$ 2,194.13	AC
Geotech Testing:		
Geotech Professional Engineer certification	\$ 100.30	HR
Soils/concrete/rebar inspector	\$ 31.35	HR
R.O.W. Monuments Surveyed In Place		
RM-1	\$ 940.34	EA
RM-2	\$ 626.89	EA
Steel Pipe Property Corner Marker (includes survey)	\$ 313.45	EA
Storm and Sanitary As-Built	\$ 3.13	LF
Test Pits (not allowing for rock excavation):		
Each location 10' deep but not exceeding 15' deep	\$ 1,880.68	EA
Each location not exceeding 10' deep	\$ 940.34	EA
Video inspection:		
Storm sewer	\$ 8.28	LF
Utility pipes	\$ 8.27	LF
LANDSCAPING		
Shrubs		
12" 2 gallon	\$ 47.64	EA
18" 3 gallon	\$ 60.18	EA
24" 5 gallon	\$ 81.50	EA
Trees		
Deciduous		
1.0 to 1.5" caliper	\$ 300.91	EA
1.5 to 2.0" caliper	\$ 426.29	EA
2.0 to 2.5" caliper	\$ 564.20	EA
2.5 to 3.0 caliper	\$ 852.57	EA
3.0 to 3.5 caliper	\$ 1,128.40	EA
Evergreen		
5 to 6' in height	\$ 263.29	EA
6 to 8' in height	\$ 476.44	EA
8 to 10' in height	\$ 840.03	EA
10 to 12' in height	\$ 1,128.40	EA
Tree Well		
Tree Well, Stone (D=10', H=3')	\$ 4,388.25	EA
MISCELLANEOUS SITE IMPROVEMENTS		
Ball Fields		
Backstop (PA-10)	\$ 9,403.40	EA
Baseball infield (PA-6)	\$ 17,553.00	EA
Bleacher pad (PA-9)	\$ 16,573.80	EA
Little League infield (PA-5)	\$ 6,268.92	EA
Outfield fence (PA-13)		
6'H with 10 foot warning track	\$ 47.64	LF
Player area: 6'H (PA-12)	\$ 5,802.52	EA
8'H with 10 foot warning track	\$ 50.15	LF
Sideline fence (PA-13)		
4'H with 10 foot warning track	\$ 37.61	LF
6'H with 10 foot warning track	\$ 46.40	LF
Softball infield (PA-7)	\$ 12,537.86	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Bike Racks		
Bike racks(4 bikes)	\$ 313.45	EA
Bus Shelters		
Bus shelter	\$ 25,075.71	EA
Courts		
Multi-Use Court & Equipment, PA 25 and 26	\$ 31,344.64	EA
Tennis Courts (2), PA-15 Thru 18	\$ 56,420.35	EA
Tennis Practice Court and Wall, PA-19 to 23	\$ 25,075.71	EA
Fencing		
Board fence (H=6')	\$ 50.15	LF
Chain-link fence (H=6') FR-2B	\$ 50.15	LF
Farm fence (H=5') FR-3A	\$ 31.35	LF
Remove and reset existing chain link fence	\$ 12.54	LF
Snow fence	\$ 6.27	LF
Standard fence (H=5') FR-5	\$ 25.08	LF
Metal Bollards		
Painted metal bollards with concrete base	\$ 752.27	EA
Recreational		
Picnic Table, (PA-2)	\$ 714.65	EA
Retaining Walls		
Concrete gravity RW-2 (H ≤ 6 FT.)	\$ 401.21	LF
Concrete gravity RW-3 (H ≤ 6 FT.)	\$ 451.36	LF
Dry rubble RW-1 (H≤ 6 FT.)	\$ 526.59	LF
Mortared rubble RW-1A (H ≤ 6 FT.)	\$ 651.97	LF
Soccer Field (includes grading)		
Seeded field	\$ 43,882.49	EA
Sodded field	\$ 188,067.86	EA
Swimming Pool		
Community	\$ 75.23	SF
School (Olympic)	\$ 106.58	SF
Tot Lot Equipment, PA 3-4		
Revolving device300/150	\$ 6,895.83	EA
Sliding device550/150	\$ 6,268.92	EA
Stationary device300/100	\$ 7,522.72	EA
Swinging device450/200	\$ 6,268.92	EA
Tot Lot - Mulch Surface	\$ 10.03	SF
Tot Lot - Synthetic Surface	\$ 20.06	SF
Trash Enclosures/Receptacles		
Trash enclosures-brick/CMU 6' high	\$ 376.13	LF
Trash receptacles-Victor Stanley Model S-45	\$ 1,253.78	EA
Trash enclosures-wood 6' high	\$ 37.61	LF
Trash Pads		
Trash pads 6" thick concrete	\$ 12.54	SF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
ROCK EXCAVATION IN TRENCHES, DE-WATERING, and SELECT BACKFILL		
- THESE PRICES ARE UNIFORM FOR ALL PIPE TYPES -		
STORM SEWER, SANITARY SEWER, AND WATER SERVICE		
<u>STORM SEWER</u>		
<u>ARCH PIPE - CMP</u>		
<u>PLAIN, 12 GA</u>		
6'-9" x 4'-11" Pipe Arch (72" Equivalent)		
0'-14' Cut	\$ 283.35	LF
14'-20' Cut	\$ 378.64	LF
7'-11" x 5'-7" Pipe Arch (84" Equivalent)		
0'-14' Cut	\$ 317.21	LF
14'-20' Cut	\$ 421.27	LF
9'-4" x 6'-3" Pipe Arch (96" Equivalent)		
0'-14' Cut	\$ 358.58	LF
14'-20' Cut	\$ 476.44	LF
10'-8" x 6'-11" Pipe Arch (108" Equivalent)		
0'-14' Cut	\$ 416.26	LF
14'-20' Cut	\$ 552.92	LF
11'-10" x 7'-7" Pipe Arch (120" Equivalent)		
0'-14' Cut	\$ 445.10	LF
14'-20' Cut	\$ 591.78	LF
42" x 29" Pipe Arch (36" Equivalent)		
0'-12' Cut	\$ 115.35	LF
0'-12' Cut; Coated, Paved Invert	\$ 130.39	LF
12'-18' Cut	\$ 164.25	LF
12'-18' Cut; Coated, Paved Invert	\$ 179.30	LF
49" x 33" Pipe Arch (42" Equivalent)		
0'-12' Cut	\$ 131.65	LF
0'-12' Cut; Coated, Paved Invert	\$ 149.20	LF
12'-18' Cut	\$ 181.80	LF
12'-18' Cut; Coated, Paved Invert	\$ 199.35	LF
57" x 38" Pipe Arch (48" Equivalent)		
0'-12' Cut	\$ 144.19	LF
0'-12' Cut; Coated, Paved Invert	\$ 163.18	LF
12'-18' Cut	\$ 198.10	LF
12'-18' Cut; Coated, Paved Invert	\$ 217.10	LF
64" x 43" Pipe Arch (54" Equivalent)		
0'-12' Cut	\$ 161.74	LF
0'-12' Cut; Coated, Paved Invert	\$ 184.32	LF
12'-18' Cut	\$ 241.99	LF
12'-18' Cut; Coated Paved Invert	\$ 264.56	LF
71" x 47" Pipe Arch (60" Equivalent)		
0'-12' Cut	\$ 195.59	LF
0'-12' Cut; Coated, Paved Invert	\$ 220.66	LF
12'-18' Cut	\$ 293.38	LF
12'-18' Cut; Coated Paved Invert	\$ 318.46	LF

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PLAIN, 14 GA		
24" x 18" Pipe Arch (21" Equivalent)		
0'-10' Cut	\$ 58.93	LF
0'-10' Cut; Coated, Paved Invert	\$ 67.71	LF
10'-16' Cut	\$ 95.29	LF
10'-16' Cut, Coated, Paved Invert	\$ 104.07	LF
28" x 20" Pipe Arch (24" Equivalent)		
0'-10' Cut	\$ 71.47	LF
0'-10' Cut; Coated, Paved Invert	\$ 80.87	LF
10'-16' Cut	\$ 109.08	LF
10'-16' Cut, Coated, Paved Invert	\$ 118.49	LF
35" x 24" Pipe Arch (30" Equivalent)		
0'-10' Cut	\$ 84.01	LF
0'-10' Cut; Coated, Paved Invert	\$ 95.61	LF
10'-16' Cut	\$ 99.05	LF
10'-16' Cut, Coated, Paved Invert	\$ 110.65	LF
PLAIN, 16 GA		
17" x 13" Pipe Arch (15" Equivalent)		
0'-10' Cut	\$ 51.41	LF
0'-10' Cut; Coated, Paved Invert	\$ 58.01	LF
10'-16' Cut	\$ 92.78	LF
10'-16' Cut, Coated, Paved Invert	\$ 99.06	LF
21" x 15" Pipe Arch (18" Equivalent)		
0'-10' Cut	\$ 56.43	LF
0-10' Cut; Coated, Paved Invert	\$ 63.95	LF
10'-16' Cut	\$ 95.29	LF
10-16' Cut; Coated, Paved Invert	\$ 102.81	LF
CULVERTS		
Box Culverts on Piles (BC-P)		
Timber Piles - Treated (No mobilization)	\$ 26.26	LF
Double Box Culvert		
(BC-2B) Fills to 25'		
Size		
4' x 4'	\$ 657.48	LF
5' x 5'	\$ 821.86	LF
6' x 6'	\$ 989.11	LF
8' x 8'	\$ 1,312.09	LF
10' x 10'	\$ 1,643.71	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Gravity Wing for Box Culvert (1 Side Only)		
Height of Box		
4'	\$ 996.32	EA
5'	\$ 1,529.80	EA
6'	\$ 2,037.34	EA
8'	\$ 3,467.66	EA
10'	\$ 4,137.50	EA
Oversized Single Box Culvert		
(BBC-1) Fills to 25'		
Size		
12' x 6'	\$ 1,203.95	LF
12' x 8'	\$ 1,329.39	LF
12' x 10'	\$ 1,456.27	LF
12' x 12'	\$ 1,583.16	LF
Quadruple Box Culvert		
(BC-4B) Fills to 25'		
Size		
4' x 4'	\$ 1,157.81	LF
5' x 5'	\$ 1,436.08	LF
6' x 6'	\$ 1,799.43	LF
8' x 8'	\$ 1,763.38	LF
10' x 10'	\$ 3,350.87	LF
Single Box Culvert		
(BC-1A) Fills to 25'		
Size		
4' x 4'	\$ 393.63	LF
5' x 5'	\$ 488.79	LF
6' x 6'	\$ 586.84	LF
8' x 8'	\$ 816.09	LF
10' x 10'	\$ 994.88	LF
Standard Wing for Box Culvert (1 Side Only)		
Height of Box		
4'	\$ 795.91	EA
5'	\$ 1,188.08	EA
6'	\$ 1,583.16	EA
8'	\$ 2,941.38	EA
10'	\$ 3,923.29	EA
Standard Wing for Oversized Box Culvert (BBC-W)		
Height of Box		
6'	\$ 1,568.73	EA
8'	\$ 2,588.13	EA
10'	\$ 3,861.28	EA
12'	\$ 5,639.08	EA
Triple Box Culvert		
(BC-3B) Fills to 25'		
Size		
4' x 4'	\$ 904.04	LF
5' x 5'	\$ 1,128.97	LF
6' x 6'	\$ 1,413.02	LF
8' x 8'	\$ 1,930.64	LF
10' x 10'	\$ 2,932.73	LF

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<u>CURB DROP INLETS - PRECAST</u>		
Curb Drop Inlet (DI-3A)		
12"-30" Pipe (Invert depth (H)=0'-8') Inlet length 2'-6"	\$ 4,781.57	EA
Curb Drop Inlet (DI-3AA)		
12"-30" Pipe (Invert depth (H)=8'-20') Inlet length 2'-6"	\$ 6,258.64	EA
Curb Drop Inlet (DI-3B & DI-12)		
12"-30" Pipe (Invert depth (H)=0'-8') Inlet length		
4'	\$ 5,038.09	EA
6'	\$ 5,380.12	EA
8'	\$ 5,759.39	EA
10'	\$ 5,951.09	EA
12'	\$ 6,142.80	EA
16'	\$ 6,517.93	EA
20'	\$ 6,897.20	EA
Curb Drop Inlet (DI-3BB)		
12"-30" Pipe (Invert depth (H)=8'-20') Inlet length		
4'	\$ 5,007.75	EA
6'	\$ 5,698.71	EA
8'	\$ 6,389.67	EA
10'	\$ 6,735.15	EA
12'	\$ 7,080.63	EA
16'	\$ 7,433.69	EA
20'	\$ 7,786.76	EA
Curb Drop Inlet (DI-3C)		
12"-30" Pipe (Invert depth (H)=0'-8') Inlet length		
6'	\$ 4,712.60	EA
8'	\$ 5,403.57	EA
10'	\$ 5,749.04	EA
12'	\$ 6,094.53	EA
16'	\$ 6,785.49	EA
20'	\$ 7,476.45	EA
Curb Drop Inlet (DI-3CC)		
12"-30" Pipe (Invert depth (H)=8'-20') Inlet length		
6'	\$ 5,582.85	EA
8'	\$ 6,232.45	EA
10'	\$ 6,641.37	EA
12'	\$ 7,050.28	EA
16'	\$ 7,989.50	EA
20'	\$ 8,792.18	EA

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Curb Drop Inlet (DI-3D)		
12"-30" Pipe (Invert depth (H)=0'-8') Inlet length		
2'-6"	\$ 4,258.86	EA
Curb Drop Inlet (DI-3DD)		
12"-30" Pipe (Invert depth (H)=8'-20') Inlet length		
2'-6"	\$ 5,110.64	EA
Curb Drop Inlet (DI-3E)		
12"-30" Pipe (Invert depth (H)=0'-8') Inlet length		
4'	\$ 4,820.18	EA
8'	\$ 5,591.13	EA
10'	\$ 6,755.14	EA
12'	\$ 6,368.98	EA
16'	\$ 7,141.32	EA
20'	\$ 7,920.54	EA
Curb Drop Inlet (DI-3EE)		
12"-30" Pipe (Invert depth (H)=8'-20') Inlet length		
6'	\$ 8,908.02	EA
8'	\$ 9,276.26	EA
10'	\$ 9,456.93	EA
12'	\$ 9,637.60	EA
16'	\$ 9,998.94	EA
20'	\$ 10,357.52	EA
Curb Drop Inlet (DI-3F)		
12"-30" Pipe (Invert depth (H)=0'-8') Inlet length		
6'	\$ 4,431.26	EA
8'	\$ 5,200.83	EA
10'	\$ 5,591.13	EA
12'	\$ 5,981.44	EA
16'	\$ 6,751.01	EA
20'	\$ 7,531.61	EA
Curb Drop Inlet (DI-3FF)		
12"-30" Pipe (Invert depth (H)=8'-20') Inlet length		
6'	\$ 9,530.02	EA
8'	\$ 9,776.90	EA
10'	\$ 10,005.14	EA
12'	\$ 10,233.40	EA
16'	\$ 10,673.35	EA
20'	\$ 11,147.79	EA

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Curb Drop Inlet (DI-4A)		
36"-48" Pipe (Invert depth (H)=0'-8') Inlet length		
4'	\$ 5,709.74	EA
Curb Drop Inlet (DI-4AA)		
36"-48" Pipe (Invert depth (H)=8'-20') Inlet length		
4'	\$ 8,033.63	EA
Curb Drop Inlet (DI-4B)		
36"-48" Pipe (Invert depth (H)=0'-8') Inlet length		
6'	\$ 6,080.73	EA
8'	\$ 6,491.72	EA
10'	\$ 6,697.91	EA
12'	\$ 6,904.10	EA
16'	\$ 7,316.46	EA
20'	\$ 7,730.22	EA
Curb Drop Inlet (DI-4BB)		
36"-48" Pipe (Invert depth (H)=8'-20') Inlet length		
6'	\$ 12,153.19	EA
8'	\$ 12,558.67	EA
10'	\$ 12,760.02	EA
12'	\$ 12,961.39	EA
16'	\$ 13,368.24	EA
20'	\$ 13,772.33	EA
Curb Drop Inlet (DI-4C)		
36"-48" Pipe (Invert depth (H)=0'-8') Inlet length		
8'	\$ 6,610.34	EA
10'	\$ 6,817.33	EA
12'	\$ 7,024.09	EA
16'	\$ 7,433.69	EA
20'	\$ 7,847.44	EA
Curb Drop Inlet (DI-4CC)		
36"-48" Pipe (Invert depth (H)=8'-20') Inlet length		
8'	\$ 15,805.22	EA
10'	\$ 16,198.98	EA
12'	\$ 16,592.72	EA
16'	\$ 17,377.48	EA
20'	\$ 18,167.73	EA

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Curb Drop Inlet (DI-4D)		
36"-48" Pipe (Invert depth (H)=0'-8') Inlet length		
4'	\$ 5,780.07	EA
Curb Drop Inlet (DI-4DD)		
36"-48" Pipe (Invert depth (H)=8'-16') Inlet length		
4'	\$ 11,145.03	EA
Curb Drop Inlet (DI-4E)		
36"-48" Pipe (Invert depth (H)=0'-8') Inlet length		
6'	\$ 6,192.45	EA
8'	\$ 6,603.44	EA
10'	\$ 6,976.50	EA
12'	\$ 7,349.57	EA
16'	\$ 8,254.30	EA
20'	\$ 9,077.66	EA
Curb Drop Inlet (DI-4EE)		
36"-48" Pipe (Invert depth (H)=8'-16') Inlet length		
6'	\$ 10,831.96	EA
8'	\$ 11,225.02	EA
10'	\$ 11,618.77	EA
12'	\$ 12,012.52	EA
16'	\$ 12,784.85	EA
20'	\$ 13,586.15	EA
Curb Drop Inlet (DI-4F)		
36"-48" Pipe (Invert depth (H)=0'-8') Inlet length		
8'	\$ 6,924.78	EA
10'	\$ 7,337.16	EA
12'	\$ 7,749.52	EA
16'	\$ 8,574.27	EA
20'	\$ 9,397.62	EA
Curb Drop Inlet (DI-4FF)		
36"-48" Pipe (Invert depth (H)=8'-16') Inlet length		
8'	\$ 10,467.85	EA
10'	\$ 10,807.13	EA
12'	\$ 11,146.40	EA
16'	\$ 11,826.34	EA
20'	\$ 12,504.89	EA

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<u>DROP INLETS</u>		
Cast in Place - 48"		
Drop Inlet (DI-1) 12"-24" Pipe		
0-10 Vertical feet (VF)	\$ 4,356.90	EA
Drop Inlet (DI-1A) 12"-24" Pipe		
10-20 VF	\$ 6,577.35	EA
Drop Inlet (DI-2) 12"-24" Pipe		
0-10 VF, 10' throat	\$ 8,133.31	EA
Drop Inlet (DI-2A) 12"-24" Pipe		
10-20 VF, 10' throat	\$ 10,396.39	EA
Precast - 48"		
Drop Inlet (DI-1APC) 12"-24" Pipe		
10-20 VF	\$ 7,065.08	EA
Drop Inlet (DI-1PC) 12"-24" Pipe		
0-10 VF	\$ 4,356.90	EA
Drop Inlet (DI-2APC) 12"-24" Pipe		
10-20 VF, 10' throat	\$ 9,962.58	EA
Drop Inlet (DI-2PC) 12"-24" Pipe		
0-10 VF, 10' throat	\$ 7,797.29	EA
<u>ELLIPTICAL PIPE - CMP</u>		
PLAIN, 12 GA		
45" X 29" Elliptical Pipe (36" equivalent)		
0'-10' Cut	\$ 95.29	LF
0'-10' Cut; Coated, Paved Invert	\$ 109.09	LF
10'-16' Cut	\$ 142.93	LF
10'-16' Cut; Coated, Paved Invert	\$ 156.73	LF
53" X 34" Elliptical Pipe (42" equivalent)		
0'-12' Cut	\$ 121.62	LF
0'-12' Cut; Coated, Paved Invert	\$ 137.60	LF
10'-18' Cut	\$ 183.05	LF
10'-18' Cut; Coated, Paved Invert	\$ 199.04	LF
60" X 38" Elliptical Pipe (48" equivalent)		
0'-12' Cut	\$ 135.41	LF
0'-12' Cut; Coated, Paved Invert	\$ 153.46	LF
10'-18' Cut	\$ 203.11	LF
10'-18' Cut; Coated, Paved Invert	\$ 221.16	LF
PLAIN, 14 GA		
30" X 19" Elliptical Pipe (24" equivalent)		
0'-10' Cut	\$ 70.21	LF
0'-10' Cut; Coated, Paved Invert	\$ 79.12	LF
10'-16' Cut	\$ 107.83	LF
10'-16' Cut; Coated, Paved Invert	\$ 116.73	LF
38" X 24" Elliptical Pipe (30" equivalent)		
0'-10' Cut	\$ 81.50	LF
0'-10' Cut; Coated, Paved Invert	\$ 92.79	LF
10'-16' Cut	\$ 122.87	LF
10'-16' Cut; Coated, Paved Invert	\$ 134.16	LF
PLAIN, 16 GA		
23" X 14" Elliptical Pipe (18" equivalent)		
0'-10' Cut	\$ 51.41	LF
0'-10' Cut; Coated, Paved Invert	\$ 57.99	LF
10'-16' Cut	\$ 86.52	LF
10'-16' Cut; Coated, Paved Invert	\$ 93.10	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
ELLIPTICAL PIPE - RCP CLASS III		
23" X 14" Elliptical Pipe (18" Equivalent)		
0'-10' Cut	\$ 85.26	LF
0'-10' Cut; "O" Ring Upgrade	\$ 135.41	LF
0'-10' Cut; Class HE/IV Upgrade	\$ 104.07	LF
10'-16' Cut	\$ 127.88	LF
10'-16' Cut; "O" Ring Upgrade	\$ 178.04	LF
10'-16' Cut; Class HE/IV Upgrade	\$ 146.70	LF
30" X 19" Elliptical Pipe (24" equivalent)		
0'-10' Cut	\$ 106.58	LF
0'-10' Cut; "O" Ring Upgrade	\$ 156.73	LF
0'-10' Cut; Class HE/IV Upgrade	\$ 113.22	LF
10'-16' Cut	\$ 160.49	LF
10'-16' Cut; "O" Ring Upgrade	\$ 210.63	LF
10'-16' Cut; Class HE/IV Upgrade	\$ 167.14	LF
38" X 24" Elliptical Pipe (30" equivalent)		
0'-10' Cut	\$ 136.67	LF
0'-10' Cut; "O" Ring Upgrade	\$ 196.84	LF
0'-10' Cut; Class HE/IV Upgrade	\$ 146.27	LF
10'-16' Cut	\$ 204.27	LF
10'-16' Cut; "O" Ring Upgrade	\$ 264.56	LF
10'-16' Cut; Class HE/IV Upgrade	\$ 213.97	LF
45" X 29" Elliptical Pipe (36" equivalent)		
0'-10' Cut	\$ 191.83	LF
0'-10' Cut; "O" Ring Upgrade	\$ 254.53	LF
0'-10' Cut; Class HE/IV Upgrade	\$ 204.69	LF
10'-16' Cut	\$ 287.12	LF
10'-16' Cut; "O" Ring Upgrade	\$ 349.81	LF
10'-16' Cut; Class HE/IV Upgrade	\$ 299.98	LF
53" X 34" Elliptical Pipe (42" equivalent)		
0'-12' Cut	\$ 245.74	LF
0'-12' Cut; "O" Ring Upgrade	\$ 314.71	LF
0'-12' Cut; Class HE/IV Upgrade	\$ 263.30	LF
10'-18' Cut	\$ 368.61	LF
10'-18' Cut; "O" Ring Upgrade	\$ 437.57	LF
10'-18' Cut; Class HE/IV Upgrade	\$ 386.17	LF
60" X 38" Elliptical Pipe (48" equivalent)		
0'-12' Cut	\$ 304.67	LF
0'-12' Cut; "O" Ring Upgrade	\$ 387.42	LF
0'-12' Cut; Class HE/IV Upgrade	\$ 326.00	LF
10'-18' Cut	\$ 457.64	LF
10'-18' Cut; "O" Ring Upgrade	\$ 540.39	LF
10'-18' Cut; Class HE/IV Upgrade	\$ 478.96	LF
76" X 48" Elliptical Pipe (60" equivalent)		
0'-12' Cut	\$ 455.13	LF
0'-12' Cut; "O" Ring Upgrade	\$ 549.17	LF
0'-12' Cut; Class HE/IV Upgrade	\$ 487.73	LF
10'-18' Cut	\$ 682.06	LF
10'-18' Cut; "O" Ring Upgrade	\$ 776.10	LF
10'-18' Cut; Class HE/IV Upgrade	\$ 714.66	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
STORM STRUCTURES		
END SECTIONS		
End Section (ES-1), Concrete		
Pipe Size		
12"	\$ 535.37	EA
15"	\$ 595.55	EA
18"	\$ 733.47	EA
21"	\$ 873.89	EA
24"	\$ 921.53	EA
27"	\$ 1,226.20	EA
30"	\$ 1,351.59	EA
36"	\$ 2,023.61	EA
42"	\$ 2,057.46	EA
48"	\$ 2,471.21	EA
54"	\$ 3,294.95	EA
60"	\$ 4,035.94	EA
End Section (ES-2), CMP		
Pipe Size		
12"	\$ 196.85	EA
15"	\$ 213.14	EA
18"	\$ 235.71	EA
21"	\$ 289.63	EA
24"	\$ 344.80	EA
30"	\$ 541.63	EA
36"	\$ 1,016.82	EA
42"	\$ 1,291.39	EA
48"	\$ 1,604.85	EA
54"	\$ 2,143.98	EA
60"	\$ 2,994.04	EA
End Section (ES-3), Arch Pipe - CMP		
Pipe Size		
17" x 13" (15"0)	\$ 218.16	EA
21" x 15" (18"0)	\$ 224.43	EA
24" x 18" (21"0)	\$ 285.86	EA
28" x 20" (24"0)	\$ 341.03	EA
35" x 24" (30"0)	\$ 450.11	EA
42" x 24" (36"0)	\$ 734.72	EA
49" x 33" (42"0)	\$ 975.44	EA
57" x 38" (48"0)	\$ 1,145.96	EA
64" x 43" (54"0)	\$ 1,687.60	EA
71" x 47" (60"0)	\$ 2,121.41	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
ENDWALLS		
Endwall (EW-1) Cast In Place		
[Round pipe (12"-36")]		
Pipe Size		
12"	\$ 752.27	EA
15"	\$ 1,003.02	EA
18"	\$ 1,191.09	EA
24"	\$ 1,504.55	EA
30"	\$ 2,507.57	EA
36"	\$ 2,758.33	EA
Endwalls (EW-1) Precast		
[Round pipe (12"-36")]		
Pipe Size		
12"	\$ 940.34	EA
15"	\$ 1,003.02	EA
18"	\$ 1,567.24	EA
24"	\$ 2,382.19	EA
30"	\$ 2,507.57	EA
36"	\$ 2,758.33	EA
Endwall (EW-1A) Cast In Place		
[Elliptical Pipe (18"-42" equivalent)]		
Pipe Size		
23" x 14" (18")	\$ 734.72	EA
30" x 19" (24")	\$ 1,058.19	EA
38" x 24" (30")	\$ 1,441.86	EA
45" x 29" (36")	\$ 1,883.19	EA
53" x 34" (42")	\$ 2,449.90	EA
Endwall (EW-1A) Precast		
[Elliptical Pipe (18"-42" equivalent)]		
Pipe Size		
23" x 14" (18")	\$ 796.16	EA
30" x 19" (24")	\$ 1,122.14	EA
38" x 24" (30")	\$ 1,297.67	EA
45" x 29" (36")	\$ 1,629.93	EA
53" x 34" (42")	\$ 2,068.75	EA
Endwall (EW-2) Cast In Place		
[Pipe (42"-84")]		
Pipe Size		
42"	\$ 5,581.85	EA
48"	\$ 7,101.45	EA
54"	\$ 8,224.83	EA
60"	\$ 9,662.92	EA
72"	\$ 12,665.75	EA
84"	\$ 14,531.37	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Endwall (EW-2) Precast		
[Round pipe (42"-84")]		
Pipe Size		
42"	\$ 6,376.75	EA
48"	\$ 6,706.50	EA
54"	\$ 7,804.81	EA
60"	\$ 8,350.21	EA
72"	\$ 9,385.85	EA
84"	\$ 11,188.78	EA
Endwall (EW-2A) Cast In Place		
[Elliptical Pipe 60"x38" (48")]		
Pipe Size		
60" x 38" (48")	\$ 7,101.45	EA
Endwall (EW-2PC) Precast		
[Pipe (42"- 48")]		
Pipe Size		
42"	\$ 6,376.75	EA
48"	\$ 6,705.25	EA
Endwall (EW-2APC) Precast		
[Elliptical Pipe 60"x38" (48")]		
Pipe Size		
60" x 38" (48")	\$ 6,771.70	EA
Endwall (EW-6PC) Precast		
[Double Pipe (12"-36")]		
Pipe Size		
2-12"	\$ 984.22	EA
2-15"	\$ 1,157.24	EA
2-18"	\$ 1,355.34	EA
2-24"	\$ 1,739.00	EA
2-30"	\$ 2,507.57	EA
2-36"	\$ 3,081.80	EA
Endwall (EW-8) Cast in Place:		
[Right-angle pipe (12"-48")]		
Pipe Size		
12"	\$ 748.51	EA
15"	\$ 950.37	EA
18"	\$ 1,103.33	EA
24"	\$ 1,537.15	EA
30"	\$ 1,992.26	EA
36"	\$ 2,558.97	EA
42"	\$ 3,118.17	EA
48"	\$ 3,740.04	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Endwall (EW-8PC) Precast:		
[Right-angle pipe (12"-48")]		
Pipe Size		
12"	\$ 1,449.38	EA
15"	\$ 1,567.24	EA
18"	\$ 1,790.41	EA
24"	\$ 1,982.23	EA
30"	\$ 2,398.49	EA
36"	\$ 2,813.49	EA
42"	\$ 3,178.35	EA
48"	\$ 3,580.81	EA
Endwall (EW-9PC) Precast:		
[Arch Pipe (15"-48" equivalent)]		
Pipe Size		
17" x 13" (15")	\$ 942.84	EA
21" x 15" (18")	\$ 1,150.97	EA
24" x 18" (21")	\$ 1,334.03	EA
28" x 20" (24")	\$ 1,504.55	EA
35" x 24" (30")	\$ 1,649.99	EA
42" x 29" (36")	\$ 2,017.34	EA
49" x 33" (42")	\$ 2,916.30	EA
57" x 38" (48")	\$ 3,099.36	EA
Endwall (EW-10PC) Precast		
[Arch Pipe (15"-36" equivalent)]		
Pipe Size		
17" x 13" (15")	\$ 1,542.16	EA
21" x 15" (18")	\$ 1,816.73	EA
24" x 18" (21")	\$ 2,063.73	EA
28" x 20" (24")	\$ 2,324.52	EA
35" x 24" (30")	\$ 3,121.92	EA
42" x 29" (36")	\$ 3,761.35	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
HDPE PIPE		
6" Pipe		
0'-8' Cut	\$ 29.78	LF
8'-14' Cut	\$ 44.68	LF
8" Pipe		
0'-8' Cut	\$ 33.36	LF
8'-14' Cut	\$ 50.05	LF
10" Pipe		
0'-8' Cut	\$ 40.12	LF
8'-14' Cut	\$ 60.18	LF
12" Pipe		
0'-8' Cut	\$ 45.14	LF
8'-14' Cut	\$ 67.70	LF
15" Pipe		
0'-10' Cut	\$ 58.93	LF
10'-16' Cut	\$ 88.39	LF
18" Pipe		
0'-10' Cut	\$ 77.73	LF
10'-16' Cut	\$ 116.61	LF
24" Pipe		
0'-10' Cut	\$ 90.77	LF
10'-16' Cut	\$ 136.36	LF
30" Pipe		
0'-10' Cut	\$ 107.83	LF
10'-16' Cut	\$ 161.74	LF
36" Pipe		
0'-10' Cut	\$ 119.67	LF
10'-16' Cut	\$ 179.48	LF
42" Pipe		
0'-10' Cut	\$ 134.53	LF
10'-16' Cut	\$ 201.74	LF
48" Pipe		
0'-10' Cut	\$ 152.96	LF
10'-16' Cut	\$ 230.70	LF
60" Pipe		
0'-10' Cut	\$ 211.26	LF
10'-16' Cut	\$ 316.89	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
<u>MANHOLES</u>		
NOTE: As appropriate, additional costs - amount to add to unit costs below. ADD:		
Standard Brick Manhole - (MH-1)		
6' depth	\$ 4,513.63	EA
6' depth with Heavy Duty Frame and Cover	\$ 5,215.74	EA
6' depth with Watertight Frame and Cover	\$ 5,190.68	EA
Depth below 6'	\$ 188.07	VF
Manhole Covers		
Heavy Duty Frame/Cover	\$ 702.12	EA
Watertight Frame/Cover	\$ 677.04	EA
Standard Frame and Cover (MH-2) 4 FT ID		
6' depth	\$ 3,761.35	EA
6' depth with Heavy Duty Frame and Cover	\$ 4,463.47	EA
6' depth with Watertight Frame and Cover	\$ 4,438.40	EA
Depth below 6'	\$ 200.60	VF
<u>MEDIAN DROP INLETS - CIP</u>		
Median Drop Inlet (DI-6A)		
12"-24" Pipe Inlet (H=8')	\$ 4,958.09	EA
Median Drop Inlet (DI-6B)		
12"-24" Pipe Inlet (H=8')	\$ 5,029.82	EA
Median Drop Inlet (DI-6C)		
30"-48" Pipe Inlet (H=10')	\$ 6,607.58	EA
Median Drop Inlet (DI-6D)		
30"-48" Pipe Inlet (H=10')	\$ 6,716.53	EA
Median Drop Inlet (DI-7) Type III Top		
12"-42" Pipe Inlet (H=10')	\$ 6,793.76	EA
Median Drop Inlet (DI-7A) Type III Top		
12"-42" Pipe Inlet (H=10')	\$ 7,476.45	EA
Median Drop Inlet (DI-7B) Type III Top		
12"-42" Pipe Inlet (H=10')	\$ 8,030.88	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
MISCELLANEOUS INLETS		
Ditch Drop Inlet, (DI-5) Type III Top		
12"-42" Pipe		
Inlet (H=8')	\$ 6,167.62	EA
Standard Yard Inlet (YI-1)		
12"-48" Pipe		
(Invert depth (H)=0'-8')		
Add Yard Inlet With Apron	\$ 5,876.62	EA
Inlet length 4' (No Aprons)	\$ 5,584.24	EA
Add Yard Inlet Apron	\$ 292.39	THROAT
Standard Yard Inlet (YI-2)		
12"-48" Pipe		
(Invert depth (H)=0'-8')		
Add Yard Inlet With Apron	\$ 6,035.22	EA
Inlet length 4' (No Aprons)	\$ 5,742.84	EA
Add Yard Inlet Apron	\$ 292.39	THROAT
Standard Yard Inlet (YI-3)		
12"-48" Pipe		
(Invert depth (H)=0'-8')		
Add Yard Inlet With Apron	\$ 6,159.34	EA
Inlet Length 4' (No Aprons)	\$ 5,866.97	EA
Add Yard Inlet Apron	\$ 292.39	THROAT
MISCELLANEOUS STORM		
Casing Pipe, Bore and Jack (3/8" wall)		
22" ID (6"-8" carrier pipe)	\$ 485.90	LF
24" ID (10" carrier pipe)	\$ 532.05	LF
30" ID (12" carrier pipe)	\$ 671.90	LF
Connection to Existing Structure		
6"-12" Pipe	\$ 400.84	EA
15"-36" Pipe	\$ 865.11	EA
42"-60" Pipe	\$ 1,326.50	EA
Filter Fabric		
Class I	\$ 4.08	SY
Class II	\$ 3.53	SY
Class III	\$ 2.68	SY
Gabions (No excavation)		
Mattress	\$ 152.96	CY
Revetment	\$ 194.34	CY
Wall	\$ 250.76	CY
Paved Ditch - 4" Thick		
Concrete (Non-reinforced)	\$ 74.48	SY
Bituminous concrete	\$ 32.60	SY
Plug Pipe		
6"-12" pipe	\$ 158.60	EA
15"-36" Pipe	\$ 360.46	EA
42"-60" pipe	\$ 576.74	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Remove Old Pipe, New Pipe in Same Trench, Restore Trench (0'-10')		
6"-12" pipe (RCP)	\$ 55.17	LF
15"-36" Pipe (RCP)	\$ 140.42	LF
42"-60" pipe (RCP)	\$ 250.76	LF
Remove Pipe and Restore Trench (0'-10')		
6"-12" pipe	\$ 43.89	LF
15"-36" Pipe	\$ 55.17	LF
42"-60" pipe	\$ 100.30	LF
Remove Pipe, Relay Existing Pipe in Another Trench, Restore Both Trenches (0'-10')		
6"-12" pipe	\$ 96.55	LF
15"-36" Pipe	\$ 140.42	LF
42"-60" pipe	\$ 250.76	LF
Rip rap		
Dry, Class I, 18"	\$ 56.27	SY
Dry, Class II, 18"	\$ 60.18	SY
Dry, Class III, 18"	\$ 67.53	SY
Grouted, Class I, 18"	\$ 82.75	SY
Shoring and piles (No mobilization)		
Pre-stressed Conc (12")	\$ 30.09	LF
Remove piles:		
Steel H Piles	\$ 19.11	LF
Timber	\$ 12.54	LF
Sheet	\$ 45.14	SF
Steel (10") (H Section)	\$ 41.38	LF
Treated Timber (12")	\$ 21.32	LF
Untreated Timber (12")	\$ 17.55	LF
Sodded Ditch		
Sodded Ditch Including Fine Grading	\$ 11.29	SY

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<u>RCP, CLASS III ROUND T&G with MASTIC</u>		
<u>12" Pipe</u>		
0'-8' Cut without "O" Ring	\$ 43.87	LF
0'-8' Cut with "O" Ring	\$ 50.15	LF
0'-8' Cut; Class IV without O Ring	\$ 44.50	LF
0'-8' Cut; Class IV with O Ring	\$ 50.78	LF
0'-8' Cut; Class V without O Ring	\$ 45.13	LF
0'-8' Cut; Class V with O Ring	\$ 51.41	LF
8'-14' Cut; without "O" Ring	\$ 65.20	LF
8'-14' Cut with "O" Ring	\$ 71.47	LF
8'-14' Cut; Class IV without O Ring	\$ 65.82	LF
8'-14' Cut; Class IV with O Ring	\$ 72.10	LF
8'-14' Cut; Class V without O Ring	\$ 66.45	LF
8'-14' Cut; Class V with O Ring	\$ 72.73	LF
<u>15" Pipe</u>		
0'-10' Cut without "O" Ring	\$ 50.15	LF
0'-10' Cut with "O" Ring	\$ 56.42	LF
0'-10' Cut; Class IV without O Ring	\$ 51.02	LF
0'-10' Cut; Class IV with O Ring	\$ 57.30	LF
0'-10' Cut; Class V without O Ring	\$ 51.41	LF
0'-10' Cut; Class V with O Ring	\$ 57.68	LF
10'-16' Cut without "O" Ring	\$ 82.75	LF
10'-16' Cut with "O" Ring	\$ 89.03	LF
10'-16' Cut; Class IV without O Ring	\$ 83.62	LF
10'-16' Cut; Class IV with O Ring	\$ 89.90	LF
10'-16' Cut; Class V without O Ring	\$ 84.01	LF
10'-16' Cut; Class V with O Ring	\$ 90.29	LF
<u>18" Pipe</u>		
0'-10' Cut without "O" Ring	\$ 60.18	LF
0'-10' Cut with "O" Ring	\$ 68.08	LF
0'-10' Cut; Class IV without O Ring	\$ 62.50	LF
0'-10' Cut; Class IV with O Ring	\$ 70.40	LF
0'-10' Cut; Class V without O Ring	\$ 65.07	LF
0'-10' Cut; Class V with O Ring	\$ 72.97	LF
10'-16' Cut without "O" Ring	\$ 96.55	LF
10'-16' Cut with "O" Ring	\$ 104.45	LF
10'-16' Cut; Class IV without O Ring	\$ 98.86	LF
10'-16' Cut; Class IV with O Ring	\$ 106.76	LF
10'-16' Cut; Class V without O Ring	\$ 101.43	LF
10'-16' Cut; Class V with O Ring	\$ 109.33	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
21" Pipe		
0'-10' Cut without "O" Ring	\$ 70.21	LF
0'-10' Cut with "O" Ring	\$ 85.26	LF
0'-10' Cut; Class IV without O Ring	\$ 73.53	LF
0'-10' Cut; Class IV with O Ring	\$ 88.57	LF
0'-10' Cut; Class V without O Ring	\$ 75.54	LF
0'-10' Cut; Class V with O Ring	\$ 90.58	LF
10'-16' Cut without "O" Ring	\$ 107.83	LF
10'-16' Cut with "O" Ring	\$ 122.87	LF
10'-16' Cut; Class IV without O Ring	\$ 111.13	LF
10'-16' Cut; Class IV with O Ring	\$ 126.18	LF
10'-16' Cut; Class V without O Ring	\$ 113.14	LF
10'-16' Cut; Class V with O Ring	\$ 128.19	LF
24" Pipe		
0'-10' Cut without "O" Ring	\$ 81.49	LF
0'-10' Cut with "O" Ring	\$ 97.80	LF
0'-10' Cut; Class IV without O Ring	\$ 85.35	LF
0'-10' Cut; Class IV with O Ring	\$ 101.65	LF
0'-10' Cut; Class V without O Ring	\$ 89.32	LF
0'-10' Cut; Class V with O Ring	\$ 105.62	LF
10'-16' Cut without "O" Ring	\$ 115.34	LF
10'-16' Cut with "O" Ring	\$ 131.65	LF
10'-16' Cut; Class IV without O Ring	\$ 119.21	LF
10'-16' Cut; Class IV with O Ring	\$ 135.51	LF
10'-16' Cut; Class V without O Ring	\$ 123.18	LF
10'-16' Cut; Class V with O Ring	\$ 139.48	LF
27" Pipe		
0'-10' Cut without "O" Ring	\$ 71.47	LF
0'-10' Cut with "O" Ring	\$ 89.03	LF
0'-10' Cut; Class IV without O Ring	\$ 76.23	LF
0'-10' Cut; Class IV with O Ring	\$ 93.79	LF
0'-10' Cut; Class V without O Ring	\$ 91.14	LF
0'-10' Cut; Class V with O Ring	\$ 108.69	LF
10'-16' Cut without "O" Ring	\$ 106.58	LF
10'-16' Cut with "O" Ring	\$ 124.13	LF
10'-16' Cut; Class IV without O Ring	\$ 111.34	LF
10'-16' Cut; Class IV with O Ring	\$ 128.90	LF
10'-16' Cut; Class V without O Ring	\$ 126.24	LF
10'-16' Cut; Class V with O Ring	\$ 143.79	LF
30" Pipe		
0'-10' Cut without "O" Ring	\$ 97.80	LF
0'-10' Cut with "O" Ring	\$ 117.85	LF
0'-10' Cut; Class IV without O Ring	\$ 105.02	LF
0'-10' Cut; Class IV with O Ring	\$ 125.08	LF
0'-10' Cut; Class V without O Ring	\$ 115.65	LF
0'-10' Cut; Class V with O Ring	\$ 135.72	LF
10'-16' Cut without "O" Ring	\$ 146.70	LF
10'-16' Cut with "O" Ring	\$ 166.76	LF
10'-16' Cut; Class IV without O Ring	\$ 153.80	LF
10'-16' Cut; Class IV with O Ring	\$ 173.97	LF
10'-16' Cut; Class V without O Ring	\$ 165.56	LF
10'-16' Cut; Class V with O Ring	\$ 184.61	LF

COUNTY OF FAIRFAX, VIRGINIA
DEPARTMENT OF PUBLIC WORKS ENVIRONMENTAL SERVICES
LAND DEVELOPMENT SERVICES
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CATEGORY	ENGLISH UNIT PRICE	UNIT
33" Pipe		
0'-12' Cut; without "O" Ring	\$ 129.14	LF
0'-12' Cut; with "O" Ring	\$ 154.22	LF
0'-12' Cut; Class IV without O Ring	\$ 136.47	LF
0'-12' Cut; Class IV with O Ring	\$ 161.53	LF
0'-12' Cut; Class V without O Ring	\$ 149.60	LF
0'-12' Cut; Class V with O Ring	\$ 174.68	LF
12'-18' Cut; without "O" Ring	\$ 193.08	LF
12'-18' Cut with "O" Ring	\$ 218.16	LF
12'-18' Cut; Class IV without O Ring	\$ 200.40	LF
12'-18' Cut; Class IV with O Ring	\$ 225.48	LF
12'-18' Cut; Class V without O Ring	\$ 213.54	LF
12'-18' Cut; Class V with O Ring	\$ 238.62	LF
36" Pipe		
0'-12' Cut; without "O" Ring	\$ 137.91	LF
0'-12' Cut; with "O" Ring	\$ 164.25	LF
0'-12' Cut; Class IV without O Ring	\$ 147.35	LF
0'-12' Cut; Class IV with O Ring	\$ 173.68	LF
0'-12' Cut; Class V without O Ring	\$ 162.52	LF
0'-12' Cut; Class V with O Ring	\$ 188.85	LF
12'-18' Cut; without "O" Ring	\$ 206.87	LF
12'-18' Cut with "O" Ring	\$ 233.20	LF
12'-18' Cut; Class IV without O Ring	\$ 216.30	LF
12'-18' Cut; Class IV with O Ring	\$ 242.63	LF
12'-18' Cut; Class V without O Ring	\$ 231.47	LF
12'-18' Cut; Class V with O Ring	\$ 257.80	LF
42" Pipe		
0'-12' Cut; without "O" Ring	\$ 162.99	LF
0'-12' Cut; with "O" Ring	\$ 204.37	LF
0'-12' Cut; Class IV without O Ring	\$ 177.79	LF
0'-12' Cut; Class IV with O Ring	\$ 219.17	LF
0'-12' Cut; Class V without O Ring	\$ 196.65	LF
0'-12' Cut; Class V with O Ring	\$ 238.02	LF
12'-18' Cut; without "O" Ring	\$ 245.74	LF
12'-18' Cut with "O" Ring	\$ 287.12	LF
12'-18' Cut; Class IV without O Ring	\$ 260.54	LF
12'-18' Cut; Class IV with O Ring	\$ 301.91	LF
12'-18' Cut; Class V without O Ring	\$ 279.40	LF
12'-18' Cut; Class V with O Ring	\$ 320.77	LF
48" Pipe		
0'-12' Cut; without "O" Ring	\$ 184.32	LF
0'-12' Cut; with "O" Ring	\$ 235.10	LF
0'-12' Cut; Class IV without O Ring	\$ 198.71	LF
0'-12' Cut; Class IV with O Ring	\$ 249.51	LF
0'-12' Cut; Class V without O Ring	\$ 220.48	LF
0'-12' Cut; Class V with O Ring	\$ 271.28	LF
12'-18' Cut; without "O" Ring	\$ 263.31	LF
12'-18' Cut with "O" Ring	\$ 314.10	LF
12'-18' Cut; Class IV without O Ring	\$ 277.71	LF
12'-18' Cut; Class IV with O Ring	\$ 328.51	LF
12'-18' Cut; Class V without O Ring	\$ 299.47	LF
12'-18' Cut; Class V with O Ring	\$ 350.26	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
54" Pipe		
0'-12' Cut; without "O" Ring	\$ 225.68	LF
0'-12' Cut; with "O" Ring	\$ 277.09	LF
0'-12' Cut; Class IV without O Ring	\$ 248.95	LF
0'-12' Cut; Class IV with O Ring	\$ 300.37	LF
0'-12' Cut; Class V without O Ring	\$ 278.29	LF
0'-12' Cut; Class V with O Ring	\$ 329.71	LF
12'-18' Cut; without "O" Ring	\$ 332.25	LF
12'-18' Cut with "O" Ring	\$ 383.66	LF
12'-18' Cut; Class IV without O Ring	\$ 355.52	LF
12'-18' Cut; Class IV with O Ring	\$ 406.92	LF
12'-18' Cut; Class V without O Ring	\$ 384.86	LF
12'-18' Cut; Class V with O Ring	\$ 436.27	LF
60" Pipe		
0'-12' Cut; without "O" Ring	\$ 270.81	LF
0'-12' Cut; with "O" Ring	\$ 327.25	LF
0'-12' Cut; Class IV without O Ring	\$ 296.64	LF
0'-12' Cut; Class IV with O Ring	\$ 353.07	LF
0'-12' Cut; Class V without O Ring	\$ 332.00	LF
0'-12' Cut; Class V with O Ring	\$ 388.42	LF
12'-18' Cut; without "O" Ring	\$ 406.23	LF
12'-18' Cut with "O" Ring	\$ 462.65	LF
12'-18' Cut; Class IV without O Ring	\$ 432.05	LF
12'-18' Cut; Class IV with O Ring	\$ 488.47	LF
12'-18' Cut; Class V without O Ring	\$ 467.40	LF
12'-18' Cut; Class V with O Ring	\$ 523.84	LF
66" Pipe		
0'-12' Cut; without "O" Ring	\$ 303.41	LF
0'-12' Cut; with "O" Ring	\$ 361.09	LF
0'-12' Cut; Class IV without O Ring	\$ 339.32	LF
0'-12' Cut; Class IV with O Ring	\$ 397.00	LF
0'-12' Cut; Class V without O Ring	\$ 381.05	LF
0'-12' Cut; Class V with O Ring	\$ 438.72	LF
12'-18' Cut; without "O" Ring	\$ 455.13	LF
12'-18' Cut with "O" Ring	\$ 512.80	LF
12'-18' Cut; Class IV without O Ring	\$ 491.03	LF
12'-18' Cut; Class IV with O Ring	\$ 548.72	LF
12'-18' Cut; Class V without O Ring	\$ 532.76	LF
12'-18' Cut; Class V with O Ring	\$ 590.43	LF
72" Pipe		
0'-14' Cut; without "O" Ring	\$ 339.77	LF
0'-14' Cut with "O" Ring	\$ 403.72	LF
0'-14' Cut Class IV without "O" Ring	\$ 386.96	LF
0'-14' Cut; Class IV with O Ring	\$ 450.91	LF
0'-14' Cut; Class V without "O" Ring	\$ 429.64	LF
0'-14' Cut; Class V with O Ring	\$ 493.60	LF
14'-20' Cut; Without "O" Ring	\$ 509.03	LF
14'-20' Cut with "O" Ring	\$ 572.98	LF
14'-20' Cut; Class IV without "O" Ring	\$ 556.23	LF
14'-20' Cut; Class IV with O Ring	\$ 620.18	LF
14'-20' Cut; Class V without "O" Ring	\$ 598.91	LF
14'-20' Cut; Class V with O Ring	\$ 662.85	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
84" Pipe		
0'-14' Cut; without "O" Ring	\$ 450.11	LF
0'-14' Cut with "O" Ring	\$ 550.42	LF
0'-14' Cut Class IV without "O" Ring	\$ 512.63	LF
0'-14' Cut; Class IV with O Ring	\$ 612.94	LF
0'-14' Cut; Class V without "O" Ring	\$ 561.71	LF
0'-14' Cut; Class V with O Ring	\$ 662.00	LF
14'-20' Cut; Without "O" Ring	\$ 674.53	LF
14'-20' Cut with "O" Ring	\$ 774.84	LF
14'-20' Cut; Class IV without "O" Ring	\$ 737.05	LF
14'-20' Cut; Class IV with O Ring	\$ 837.36	LF
14'-20' Cut; Class V without "O" Ring	\$ 786.13	LF
14'-20' Cut; Class V with O Ring	\$ 886.42	LF
96" Pipe		
0'-14' Cut; without "O" Ring	\$ 532.86	LF
0'-14' Cut with "O" Ring	\$ 668.27	LF
0'-14' Cut Class IV without "O" Ring	\$ 608.09	LF
0'-14' Cut; Class IV with O Ring	\$ 743.49	LF
0'-14' Cut; Class V without "O" Ring	\$ 673.28	LF
0'-14' Cut; Class V with O Ring	\$ 808.69	LF
14'-20' Cut; Without "O" Ring	\$ 752.27	LF
14'-20' Cut with "O" Ring	\$ 887.67	LF
14'-20' Cut; Class IV without "O" Ring	\$ 827.49	LF
14'-20' Cut; Class IV with O Ring	\$ 962.90	LF
14'-20' Cut; Class V without "O" Ring	\$ 892.69	LF
14'-20' Cut; Class V with O Ring	\$ 1,028.09	LF
108" Pipe		
0'-14' Cut; without "O" Ring	\$ 651.96	LF
0'-14' Cut with "O" Ring	\$ 807.43	LF
0'-14' Cut Class IV without "O" Ring	\$ 748.51	LF
0'-14' Cut; Class IV with O Ring	\$ 903.98	LF
0'-14' Cut; Class V without "O" Ring	\$ 818.72	LF
0'-14' Cut; Class V with O Ring	\$ 974.19	LF
14'-20' Cut; Without "O" Ring	\$ 866.37	LF
14'-20' Cut with "O" Ring	\$ 1,021.84	LF
14'-20' Cut; Class IV without "O" Ring	\$ 962.91	LF
14'-20' Cut; Class IV with O Ring	\$ 1,118.38	LF
14'-20' Cut; Class V without "O" Ring	\$ 1,033.12	LF
14'-20' Cut; Class V with O Ring	\$ 1,188.59	LF
Extra Strength Concrete 8" Pipe		
0'-8' Cut	\$ 36.37	LF
8'-14' Cut	\$ 53.91	LF
Extra Strength Concrete 10" Pipe		
0'-8' Cut	\$ 41.39	LF
8'-14' Cut	\$ 61.44	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
ROUND PIPE - CMP		
<u>CMP Plain 12 GA.</u>		
36" Pipe		
0'-12' Cut	\$ 104.07	LF
0'-12' Cut; Coated Paved Invert	\$ 119.11	LF
12'-18' Cut	\$ 155.47	LF
12'-18' Cut; Coated Paved Invert	\$ 170.52	LF
42" Pipe		
0'-12' Cut	\$ 111.59	LF
0'-12' Cut; Coated Paved Invert	\$ 129.14	LF
12'-18' Cut	\$ 166.76	LF
12'-18' Cut; Coated Paved Invert	\$ 184.32	LF
48" Pipe		
0'-12' Cut	\$ 120.36	LF
0'-12' Cut; Coated Paved Invert	\$ 140.42	LF
12'-18' Cut	\$ 180.55	LF
12'-18' Cut; Coated Paved Invert	\$ 200.60	LF
54" Pipe		
0'-12' Cut	\$ 132.90	LF
0'-12' Cut; Coated Paved Invert	\$ 152.96	LF
12'-18' Cut	\$ 199.35	LF
12'-18' Cut; Coated Paved Invert	\$ 219.42	LF
60" Pipe		
0'-12' Cut	\$ 150.45	LF
0'-12' Cut; Coated Paved Invert	\$ 175.53	LF
12'-18' Cut	\$ 225.68	LF
12'-18' Cut; Coated Paved Invert	\$ 250.76	LF
72" Pipe		
0'-14' Cut	\$ 342.29	LF
0'-14' Cut; Coated Paved Invert	\$ 373.64	LF
14'-20' Cut	\$ 433.80	LF
14'-20' Cut; Coated Paved Invert	\$ 465.16	LF
84" Pipe		
0'-14' Cut	\$ 411.24	LF
0'-14' Cut; Coated Paved Invert	\$ 448.85	LF
14'-20' Cut	\$ 601.81	LF
14'-20' Cut; Coated Paved Invert	\$ 639.43	LF
96" Pipe		
0'-14' Cut	\$ 448.85	LF
0'-14' Cut; Coated Paved Invert	\$ 492.75	LF
14'-20' Cut	\$ 537.88	LF
14'-20' Cut; Coated Paved Invert	\$ 581.76	LF
108" Pipe		
0'-14' Cut	\$ 526.59	LF
0'-14' Cut; Coated Paved Invert	\$ 576.73	LF
14'-20' Cut	\$ 626.89	LF
14'-20' Cut; Coated Paved Invert	\$ 677.04	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
<u>CMP Plain 14 GA.</u>		
24" Pipe		
0'-10' Cut	\$ 56.42	LF
0'-10' Cut; Coated Paved Invert	\$ 67.71	LF
10'-16' Cut	\$ 91.53	LF
10'-16' Cut; Coated Paved Invert	\$ 102.82	LF
30" Pipe		
0'-10' Cut	\$ 66.45	LF
0'-10' Cut; Coated Paved Invert	\$ 78.99	LF
10'-16' Cut	\$ 101.57	LF
10'-16' Cut; Coated Paved Invert	\$ 114.11	LF
<u>CMP Plain 16 GA.</u>		
6" Pipe		
0'-8' Cut	\$ 24.95	LF
8'-14' Cut	\$ 50.62	LF
8" Pipe		
0'-8' Cut	\$ 28.08	LF
0'-8' Cut; Coated Invert	\$ 31.85	LF
8'-14' Cut	\$ 53.78	LF
8'-14' Cut; Coated Invert	\$ 57.55	LF
12" Pipe		
0'-8' Cut	\$ 33.60	LF
0'-8' Cut; Coated Invert	\$ 39.87	LF
8'-14' Cut	\$ 60.01	LF
8'-14' Cut; Coated Invert	\$ 66.29	LF
15" Pipe		
0'-10' Cut	\$ 36.10	LF
0'-10' Cut; Coated Paved Invert	\$ 43.63	LF
10'-16' Cut	\$ 77.73	LF
10'-16' Cut; Coated Paved Invert	\$ 85.26	LF
18" Pipe		
0'-10' Cut	\$ 46.40	LF
0'-10' Cut; Coated Paved Invert	\$ 55.17	LF
10'-16' Cut	\$ 82.75	LF
10'-16' Cut; Coated Paved Invert	\$ 91.53	LF
21" Pipe		
0'-10' Cut	\$ 50.15	LF
0'-10' Cut; Coated Paved Invert	\$ 60.18	LF
10'-16' Cut	\$ 87.76	LF
10'-16' Cut; Coated Paved Invert	\$ 97.80	LF
<u>Storm Sewer</u>		
Rock Excavation - in trenches:		
Blast - All Pipes		
less than 1,500 CY	\$ 125.38	CY
greater than 1,500cy	\$ 100.30	CY
Hoe ram - All Pipes		
less than 1,500cy	\$ 156.73	CY
greater than 1,500cy	\$ 125.38	CY
Select Backfill		
0'-5' Deep (3"-12" pipe)	\$ 17.55	LF
0'-6' Deep (12"-24" pipe)	\$ 30.09	LF
Trench De-watering	\$ 3.13	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Utilities		
MISCELLANEOUS SEWER		
Air Relief Valve (No manhole)		
1-1/4" Valve	\$ 315.95	EA
1-1/2" Valve	\$ 406.22	EA
2" Valve	\$ 586.77	EA
2-1/2" Valve	\$ 881.41	EA
3" Valve	\$ 1,115.86	EA
4" Valve	\$ 1,499.53	EA
6" Valve	\$ 3,303.73	EA
Casing Pipe, Bore and Jack (3/8" wall thickness)		
22" ID (8" carrier pipe)	\$ 501.51	LF
24" ID (10" carrier pipe)	\$ 584.26	LF
30" ID (12" carrier pipe)	\$ 702.12	LF
Class B concrete for unsuitable foundation material		
Foundation material A3	\$ 940.34	CY
Foundation material A4	\$ 626.89	CY
Concrete Pier for Storm Drainage Crossing Sanitary Sewer		
6" Pipe	\$ 137.92	EA
15" Pipe	\$ 191.71	EA
27" Pipe	\$ 321.34	EA
Connection to Existing Manhole		
8" core bore	\$ 1,253.78	EA
Force Main		
Pipe Size		
4"	\$ 27.33	LF
6"	\$ 34.11	LF
8"	\$ 41.22	LF
10"	\$ 45.37	LF
12"	\$ 54.29	LF
14"	\$ 73.98	LF
16"	\$ 88.51	LF
Internal Drop Connection to Manhole		
8" Pipe PVC	\$ 752.27	EA
Lateral Spur, with clean out and connection to new main		
4" diameter, greater than 10' deep	\$ 55.17	VF
Connect to existing main with clean out	\$ 1,880.68	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Standard Concrete Encasement		
8" Pipe	\$ 53.92	LF
10" Pipe	\$ 61.44	LF
12" Pipe	\$ 66.46	LF
15" Pipe	\$ 76.49	LF
18" Pipe	\$ 85.26	LF
21" Pipe	\$ 95.29	LF
Standard External Drop Connection To Manhole, CI; Inc. Bend - 2 Ea Wye - 1 Ea Extra Core		
8" Pipe	\$ 702.12	EA
10" Pipe	\$ 952.87	EA
12" Pipe	\$ 1,115.86	EA
15" Pipe	\$ 1,755.30	EA
Temporary Pump Around		
8" Line Each Location	\$ 12,537.86	Months
Tunnel: Liner Plate (8 Gauge)		
48" OD (15"-18" carrier pipe)	\$ 1,020.58	LF
54" OD (21"-24" carrier pipe)	\$ 1,189.84	LF
60" OD (27"-30" carrier pipe)	\$ 1,517.09	LF
66" OD (33"-36" carrier pipe)	\$ 1,765.33	LF
72" OD (42" carrier pipe)	\$ 2,013.58	LF
78" OD (48" carrier pipe)	\$ 2,268.09	LF
84" OD (54" carrier pipe)	\$ 2,530.14	LF
<u>PUMPING STATION SEWER</u>		
Drywell Type, 8' ID with standby generator and 8 foot diameter wetwell		
Concrete	\$ 608,086.07	LS
Fiberglass	\$ 608,086.07	LS
Steel	\$ 608,086.07	LS
Wetwell Type with stand by generator		
Duplex Grinder Pump in 4 foot diameter wetwell	\$ 36,986.68	LS
Simplex Grinder Pump in 4 foot diameter wetwell	\$ 31,344.64	LS
Submersible Pumps in 6 foot diameter wetwell	\$ 290,878.28	LS

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CATEGORY	ENGLISH UNIT PRICE	UNIT
<u>RCP, CLASS III ROUND</u>		
<u>(WITH MODS FOR OTHER CLASSES)</u>		
12" Pipe		
0'-8' Cut including O Ring	\$ 56.43	LF
0'-8' Cut; Class IV W/O Ring	\$ 57.05	LF
0'-8' Cut; Class V W/O Ring	\$ 57.68	lf
8'-14' Cut including O Ring	\$ 77.73	LF
8'-14' Cut; Class IV W/O Ring	\$ 78.35	LF
8'-14' Cut; Class V W/O Ring	\$ 78.99	LF
15" Pipe		
0'-10' Cut including O Ring	\$ 60.18	LF
0'-10' Cut; Class IV W/O Ring	\$ 61.05	LF
0'-10' Cut; Class V W/O Ring	\$ 61.44	I
10'-16' Cut; including O Ring	\$ 87.77	LF
10'-16' Cut; Class IV W/O Ring	\$ 88.64	LF
10'-16' Cut; Class V W/O Ring	\$ 89.03	LF
18" Pipe		
0'-10' Cut including O Ring	\$ 68.08	LF
0'-10' Cut; Class IV W/O Ring	\$ 70.40	LF
0'-10' Cut; Class V W/O Ring	\$ 72.97	LF
10'-16' Cut; including O Ring	\$ 108.19	LF
10'-16' Cut; Class IV W/O Ring	\$ 110.51	LF
10'-16' Cut; Class V W/O Ring	\$ 113.09	LF
21" Pipe		
0'-10' Cut including O Ring	\$ 87.76	LF
0'-10' Cut; Class IV W/O Ring	\$ 91.08	LF
0'-10' Cut; Class V W/O Ring	\$ 93.09	LF
10'-16' Cut; including O Ring	\$ 135.41	LF
10'-16' Cut; Class IV W/O Ring	\$ 138.72	LF
10'-16' Cut; Class V W/O Ring	\$ 140.73	LF
24" Pipe		
0'-10' Cut including O Ring	\$ 95.29	LF
0'-10' Cut; Class IV W/O Ring	\$ 99.15	LF
0'-10' Cut; Class V W/O Ring	\$ 103.11	LF
10'-16' Cut; including O Ring	\$ 144.19	LF
10'-16' Cut; Class IV W/O Ring	\$ 148.04	LF
10'-16' Cut; Class V W/O Ring	\$ 152.02	LF
27" Pipe		
0'-10' Cut including O Ring	\$ 101.56	LF
0'-10' Cut; Class IV W/O Ring	\$ 106.33	LF
0'-10' Cut; Class V W/O Ring	\$ 121.22	LF
10'-16' Cut; including O Ring	\$ 156.73	LF
10'-16' Cut; Class IV W/O Ring	\$ 161.49	LF
10'-16' Cut; Class V W/O Ring	\$ 176.39	LF
30" Pipe		
0'-10' Cut including O Ring	\$ 130.39	LF
0'-10' Cut; Class IV W/O Ring	\$ 137.60	LF
0'-10' Cut; Class V W/O Ring	\$ 148.25	LF
10'-16' Cut; including O Ring	\$ 195.59	LF
10'-16' Cut; Class IV W/O Ring	\$ 202.81	LF
10'-16' Cut; Class V W/O Ring	\$ 213.45	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
33" Pipe		
0'-12' Cut including O Ring	\$ 179.30	LF
0'-12' Cut; Class IV W/O Ring	\$ 186.61	LF
0'-12' Cut; Class V W/O Ring	\$ 199.75	LF
12'-18' Cut including O Ring	\$ 255.78	LF
12'-18' Cut; Class IV W/O Ring	\$ 263.09	LF
12'-18' Cut; Class V W/O Ring	\$ 276.23	LF
36" Pipe		
0'-12' Cut including O Ring	\$ 205.62	LF
0'-12' Cut; Class IV W/O Ring	\$ 215.05	LF
0'-12' Cut; Class V W/O Ring	\$ 230.22	LF
12'-18' Cut including O Ring	\$ 264.56	LF
12'-18' Cut; Class IV W/O Ring	\$ 273.98	LF
12'-18' Cut; Class V W/O Ring	\$ 289.15	LF
42" Pipe		
0'-12' Cut including O Ring	\$ 229.45	LF
0'-12' Cut; Class IV W/O Ring	\$ 244.24	LF
0'-12' Cut; Class V W/O Ring	\$ 263.10	LF
12'-18' Cut including O Ring	\$ 310.94	LF
12'-18' Cut; Class IV W/O Ring	\$ 325.73	LF
12'-18' Cut; Class V W/O Ring	\$ 344.59	LF
48" Pipe		
0'-12' Cut including O Ring	\$ 285.26	LF
0'-12' Cut; Class IV W/O Ring	\$ 299.66	LF
0'-12' Cut; Class V W/O Ring	\$ 321.42	LF
12'-18' Cut including O Ring	\$ 320.36	LF
12'-18' Cut; Class IV W/O Ring	\$ 334.77	LF
12'-18' Cut; Class V W/O Ring	\$ 356.52	LF
54" Pipe		
0'-12' Cut including O Ring	\$ 302.17	LF
0'-12' Cut; Class IV W/O Ring	\$ 325.43	LF
0'-12' Cut; Class V W/O Ring	\$ 354.78	LF
12'-18' Cut including O Ring	\$ 383.88	LF
12'-18' Cut; Class IV W/O Ring	\$ 406.92	LF
12'-18' Cut; Class V W/O Ring	\$ 436.27	LF
60" Pipe		
0'-12' Cut including O Ring	\$ 327.24	LF
0'-12' Cut; Class IV W/O Ring	\$ 353.07	LF
0'-12' Cut; Class V W/O Ring	\$ 388.42	LF
12'-18' Cut including O Ring	\$ 462.65	LF
12'-18' Cut; Class IV W/O Ring	\$ 488.47	LF
12'-18' Cut; Class V W/O Ring	\$ 523.84	LF
66" Pipe		
0'-12' Cut including O Ring	\$ 361.09	LF
0'-12' Cut; Class IV W/O Ring	\$ 397.56	LF
0'-12' Cut; Class V W/O Ring	\$ 438.72	LF
12'-18' Cut including O Ring	\$ 512.80	LF
12'-18' Cut; Class IV W/O Ring	\$ 548.72	LF
12'-18' Cut; Class V W/O Ring	\$ 590.43	LF
72" Pipe		
0'-14' Cut including O Ring	\$ 403.72	LF
0'-14' Cut; Class IV Upgrade W/O Ring	\$ 450.91	LF
0'-14' Cut; Class V Upgrade W/O Ring	\$ 493.60	LF
14'-20' Cut; including O Ring	\$ 572.98	LF
14'-20' Cut; Class IV Upgrade W/O Ring	\$ 620.18	LF
14'-20' Cut; Class V Upgrade WO Ring	\$ 662.85	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
84" Pipe		
0'-14' Cut including O Ring	\$ 550.42	LF
0'-14' Cut; Class IV Upgrade W/O Ring	\$ 612.94	LF
0'-14' Cut; Class V Upgrade W/O Ring	\$ 662.00	LF
14'-20' Cut; including O Ring	\$ 774.84	LF
14'-20' Cut; Class IV Upgrade W/O Ring	\$ 837.36	LF
14'-20' Cut; Class V Upgrade WO Ring	\$ 886.42	LF
96" Pipe		
0'-14' Cut including O Ring	\$ 668.27	LF
0'-14' Cut; Class IV Upgrade W/O Ring	\$ 743.49	LF
0'-14' Cut; Class V Upgrade W/O Ring	\$ 808.69	LF
14'-20' Cut; including O Ring	\$ 887.67	LF
14'-20' Cut; Class IV Upgrade W/O Ring	\$ 962.90	LF
14'-20' Cut; Class V Upgrade WO Ring	\$ 1,028.09	LF
108" Pipe		
0'-14' Cut including O Ring	\$ 807.43	LF
0'-14' Cut; Class IV Upgrade W/O Ring	\$ 903.98	LF
0'-14' Cut; Class V Upgrade W/O Ring	\$ 974.19	LF
14'-20' Cut; including O Ring	\$ 1,021.84	LF
14'-20' Cut; Class IV Upgrade W/O Ring	\$ 1,118.38	LF
14'-20' Cut; Class V Upgrade WO Ring	\$ 1,188.59	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
SANITARY SEWER		
Note: All pipe unit prices include trench excavation, bedding, pipe, and backfill		
DIP (CLASS 50)		
30" Pipe		
0'-10' Cut	\$ 177.04	LF
0'-10' Cut; Class 51 Upgrade	\$ 189.41	LF
0'-10' Cut; Class 52 Upgrade	\$ 201.86	LF
0'-10' Cut; Class 53 Upgrade	\$ 214.20	LF
10'-16' Cut	\$ 211.41	LF
10'-16' Cut; Class 51 Upgrade	\$ 223.77	LF
10'-16' Cut; Class 52 Upgrade	\$ 236.23	LF
10'-16' Cut; Class 53 Upgrade	\$ 248.56	LF
36" Pipe		
0'-10' Cut	\$ 233.20	LF
0'-10' Cut; Class 51 Upgrade	\$ 250.22	LF
0'-10' Cut; Class 52 Upgrade	\$ 267.81	LF
0'-10' Cut; Class 53 Upgrade	\$ 288.81	LF
10'-16' Cut	\$ 266.30	LF
10'-16' Cut; Class 51 Upgrade	\$ 283.32	LF
10'-16' Cut; Class 52 Upgrade	\$ 300.91	LF
10'-16' Cut; Class 53 Upgrade	\$ 321.91	LF
42" Pipe		
0'-10' Cut	\$ 279.74	LF
0'-10' Cut; Class 51 Upgrade	\$ 303.33	LF
0'-10' Cut; Class 52 Upgrade	\$ 326.91	LF
0'-10' Cut; Class 53 Upgrade	\$ 350.73	LF
10'-16' Cut	\$ 321.82	LF
10'-16' Cut; Class 51 Upgrade	\$ 345.41	LF
10'-16' Cut; Class 52 Upgrade	\$ 369.00	LF
10'-16' Cut; Class 53 Upgrade	\$ 392.82	LF
48" Pipe		
0'-10' Cut	\$ 341.53	LF
0'-10' Cut; Class 51 Upgrade	\$ 377.22	LF
0'-10' Cut; Class 52 Upgrade	\$ 412.69	LF
0'-10' Cut; Class 53 Upgrade	\$ 446.37	LF
10'-16' Cut	\$ 383.66	LF
10'-16' Cut; Class 51 Upgrade	\$ 419.34	LF
10'-16' Cut; Class 52 Upgrade	\$ 454.82	LF
10'-16' Cut; Class 53 Upgrade	\$ 488.49	LF
54" Pipe		
0'-10' Cut	\$ 421.27	LF
0'-10' Cut; Class 51 Upgrade	\$ 473.07	LF
0'-10' Cut; Class 52 Upgrade	\$ 510.49	LF
0'-10' Cut; Class 53 Upgrade	\$ 524.47	LF
10'-16' Cut	\$ 460.39	LF
10'-16' Cut; Class 51 Upgrade	\$ 511.62	LF
10'-16' Cut; Class 52 Upgrade	\$ 549.61	LF
10'-16' Cut; Class 53 Upgrade	\$ 563.59	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
PVC PIPE		
6" Pipe PVC with gravel		
0'-8' Cut	\$ 24.80	LF
0'-8' Cut With Dip Class 50	\$ 46.60	LF
8'-14' Cut	\$ 56.95	LF
8'-14' Cut With Dip Class 50	\$ 78.74	LF
8" Pipe PVC		
0'-8' Cut	\$ 43.89	LF
0'-8' Cut With Dip Class 50	\$ 73.56	LF
8'-14' Cut	\$ 86.52	LF
8'-14' Cut With Dip Class 50	\$ 116.18	LF
10" Pipe PVC		
0'-8' Cut	\$ 47.64	LF
0'-8' Cut With Dip Class 50	\$ 71.46	LF
8'-14' Cut	\$ 87.76	LF
8'-14' Cut With Dip Class 50	\$ 111.59	LF
12" Pipe PVC		
0'-8' Cut	\$ 56.43	LF
0'-8' Cut With Dip Class 50	\$ 189.25	LF
8'-14' Cut	\$ 119.11	LF
8'-14' Cut With Dip Class 50	\$ 251.95	LF
15" Pipe PVC		
0'-10' Cut	\$ 78.99	LF
0'-10' Cut With Dip Class 50	\$ 130.41	LF
10'-16' Cut	\$ 119.11	LF
10'-16' Cut With Dip Class 50	\$ 170.54	LF
18" Pipe PVC		
0'-10' Cut	\$ 82.75	LF
0'-10' Cut With Dip Class 50	\$ 143.66	LF
10'-16' Cut	\$ 131.65	LF
10'-16' Cut With Dip Class 50	\$ 192.56	LF
21" Pipe PVC		
0'-10' Cut	\$ 112.84	LF
0'-10' Cut With Dip Class 50	\$ 167.53	LF
10'-16' Cut	\$ 155.47	LF
10'-16' Cut With Dip Class 50	\$ 210.16	LF
24" Pipe PVC		
0'-10' Cut	\$ 122.87	LF
0'-10' Cut With Dip Class 50	\$ 195.51	LF
10'-16' Cut	\$ 165.50	LF
10'-16' Cut With Dip Class 50	\$ 238.14	LF
27" Pipe PVC		
0'-10' Cut	\$ 132.90	LF
0'-10' Cut With Dip Class 50	\$ 208.12	LF
10'-16' Cut	\$ 188.07	LF
10'-16' Cut With Dip Class 50	\$ 263.30	LF

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Rock Excavation - in trenches:		
Blast - All Pipes		
less than 1,500 CY	\$ 125.38	CY
greater than 1,500cy	\$ 100.30	CY
Hoe ram - All Pipes		
less than 1,500cy	\$ 156.73	CY
greater than 1,500cy	\$ 125.38	CY
Select Backfill		
0'-5' Deep (3"-12" pipe)	\$ 17.55	LF
0'-6' Deep (12"-24" pipe)	\$ 30.09	LF
Trench De-watering	\$ 3.13	LF
SANITARY SEWER STRUCTURES		
Heavy duty frame and cover	\$ 677.04	EA
Manhole vent: 4" diameter, 6' high	\$ 739.73	EA
Standard Precast Manhole Frame and Cover		
03 FT ID		
Dept (Vertical Separation of Top and Bottom)	\$ 178.04	VF
Standard Manhole (Base, Top)	\$ 877.65	EA
With Heavy Duty Frame and Cover	\$ 1,554.69	EA
With Watertight Frame and Cover	\$ 1,454.39	EA
04 FT ID		
Dept (Vertical Separation of Top and Bottom)	\$ 206.88	VF
Standard Manhole (Base, Top)	\$ 1,128.40	EA
With Heavy Duty Frame and Cover	\$ 1,805.44	EA
With Watertight Frame and Cover	\$ 1,705.15	EA
05 FT ID		
Dept (Vertical Separation of Top and Bottom)	\$ 349.81	VF
Standard Manhole (Base, Top)	\$ 1,379.16	EA
With Heavy Duty Frame and Cover	\$ 2,056.20	EA
With Watertight Frame and Cover	\$ 1,955.89	EA
06 FT ID		
Dept (Vertical Separation of Top and Bottom)	\$ 478.95	VF
Standard Manhole (Base, Top)	\$ 1,692.61	EA
With Heavy Duty Frame and Cover	\$ 2,369.65	EA
With Watertight Frame and Cover	\$ 2,269.34	EA
07 FT ID		
Dept (Vertical Separation of Top and Bottom)	\$ 725.94	VF
Standard Manhole (Base, Top)	\$ 2,432.33	EA
With Heavy Duty Frame and Cover	\$ 3,109.37	EA
With Watertight Frame and Cover	\$ 3,009.07	EA
08 FT ID		
Dept (Vertical Separation of Top and Bottom)	\$ 1,038.13	VF
Standard Manhole (Base, Top)	\$ 3,836.60	EA
With Heavy Duty Frame and Cover	\$ 4,513.64	EA
With Watertight Frame and Cover	\$ 4,413.33	EA
09 FT ID		
Dept (Vertical Separation of Top and Bottom)	\$ 1,100.82	VF
Standard Manhole (Base, Top)	\$ 4,262.88	EA
With Heavy Duty Frame and Cover	\$ 4,939.92	EA
With Watertight Frame and Cover	\$ 4,839.61	EA
10 FT ID		
Dept (Vertical Separation of Top and Bottom)	\$ 1,278.85	VF
Standard Manhole (Base, Top)	\$ 5,328.59	EA
With Heavy Duty Frame and Cover	\$ 6,005.63	EA
With Watertight Frame and Cover	\$ 5,905.32	EA
Watertight frame and cover	\$ 576.74	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
<u>WATER SYSTEM</u>		
NOTE: All unit prices include trenching, pipe, bedding, and backfill		
Ductile Iron Pipe		
Select Backfill		
0'-5' Deep (3"-12" pipe)	\$ 17.55	LF
0'-6' Deep (12"-24" pipe)	\$ 30.09	LF
Rock Excavation - in trenches:		
Blast - All Pipes		
less than 1,500 CY	\$ 125.38	CY
greater than 1,500cy	\$ 100.30	CY
Hoe ram - All Pipes		
less than 1,500cy	\$ 156.73	CY
greater than 1,500cy	\$ 125.38	CY
Trench De-watering	\$ 3.13	LF
Water Lines (1)		
3" DIP, Class 52	\$ 60.56	LF
4" DIP, Class 52	\$ 65.75	LF
6" DIP, Class 52	\$ 90.27	LF
8" DIP, Class 52	\$ 101.56	LF
10" DIP, Class 52	\$ 115.35	LF
12" DIP, Class 52	\$ 137.92	LF
14" DIP, Class 51	\$ 164.25	LF
16" DIP, Class 51	\$ 183.05	LF
18" DIP, Class 51	\$ 219.42	LF
20" DIP, Class 51	\$ 288.37	LF
24" DIP, Class 51	\$ 374.89	LF
Water System		
<u>MISCELLANEOUS</u>		
01" Service Connection (Incl Corp. Stop, Tubing, Meter)	\$ 672.03	EA
Casing pipe		
Casing pipe, bore and jack (3/8" wall T)		
16" ID	\$ 313.45	LF
20" ID	\$ 364.86	LF
22" ID	\$ 378.64	LF
24" ID	\$ 451.36	LF
30" ID	\$ 564.20	LF
Fire Hydrant		
Fire Hydrant Assembly (4) :with 20 LF 6" Dip	\$ 4,463.48	EA
Jack Pit		
Jack Pit	\$ 4,388.25	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Valve Assembly with valve box:		
3" Ball	\$ 379.27	EA
4" Gate	\$ 679.92	EA
6" Gate	\$ 896.46	EA
8" Gate	\$ 1,172.29	EA
10" Gate	\$ 1,517.09	EA
12" Gate	\$ 1,930.83	EA
14" Butterfly	\$ 4,137.50	EA
16" Butterfly	\$ 5,378.74	EA
18" Butterfly	\$ 6,344.15	EA
20" Butterfly	\$ 8,688.73	EA
24" Butterfly	\$ 10,895.40	EA
Wet Tap of "Live" Line - Grass Area		
6" Tap	\$ 3,199.66	EA
6" Tap In Street Patch	\$ 3,871.68	EA
8" Tap	\$ 3,499.32	EA
8: Tap In Street Patch	\$ 4,171.34	EA
10" Tap	\$ 3,891.75	EA
10" Tap In Street Patch	\$ 4,563.77	EA
12" Tap	\$ 5,102.91	EA
12" Tap in Street Patch	\$ 5,774.93	EA

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Street Construction		
Roads and Parking		
Bituminous Concrete, Base Course		
BM-25.0A 10 Inch Thick	\$ 56.80	SY
BM-25.0A 3 Inch Thick Per Square Yard and Less	\$ 22.57	SY
BM-25.0A 3.5 Inch Thick	\$ 25.01	SY
BM-25.0A 4 Inch Thick	\$ 27.45	SY
BM-25.0A 4.5 Inch Thick	\$ 29.91	SY
BM-25.0A 5 Inch Thick	\$ 32.35	SY
BM-25.0A 5.5 Inch Thick	\$ 34.79	SY
BM-25.0A 6 Inch Thick	\$ 37.24	SY
BM-25.0A 6.5 Inch Thick	\$ 39.68	SY
BM-25.0A 7 Inch Thick	\$ 42.13	SY
BM-25.0A 7.5 Inch Thick	\$ 44.58	SY
BM-25.0A 8 Inch Thick	\$ 47.02	SY
BM-25.0A 8.5 Inch Thick	\$ 49.46	SY
BM-25.0A 9 Inch Thick	\$ 51.92	SY
BM-25.0A 9.5 Inch Thick	\$ 54.36	SY
Bituminous Concrete Top Course		
IM-19.0A, 2 Inch Thick Per Sq Yd and Less	\$ 12.54	SY
IM-19.0A, 2.5 Inch Thick	\$ 15.32	SY
IM-19.0A, 3 Inch Thick	\$ 18.11	SY
IM-19.0A, 3.5 Inch Thick	\$ 20.89	SY
IM-19.0A, 4 Inch Thick	\$ 23.68	SY
IM-19.0A, 4.5 Inch Thick	\$ 26.46	SY
IM-19.0A, 5 Inch Thick	\$ 29.26	SY
IM-19.0A, 5.5 Inch Thick	\$ 32.04	SY
IM-19.0A, 6 Inch Thick	\$ 34.82	SY
SM (9.0A 9.5A 9.5D), 2 Inch Thick and Less	\$ 12.54	SY
SM (9.0A 9.5A 9.5D), 2.5 Inch Thick	\$ 15.32	SY
SM (9.0A 9.5A 9.5D), 3 Inch Thick	\$ 18.11	SY
SM (9.0A 9.5A 9.5D), 3.5 Inch Thick	\$ 20.89	SY
SM (9.0A 9.5A 9.5D), 4 Inch Thick	\$ 23.68	SY
SM (9.0A 9.5A 9.5D), 4.5 Inch Thick	\$ 26.46	SY
SM (9.0A 9.5A 9.5D), 5 Inch Thick	\$ 29.26	SY
SM (9.0A 9.5A 9.5D), 5.5 Inch Thick	\$ 32.04	SY
SM (9.0A 9.5A 9.5D), 6 Inch Thick	\$ 34.82	SY
Coat		
Prime Coat	\$ 1.26	SY
Tack Coat	\$ 1.26	SY
Concrete Curbing		
Concrete Curb & Gutter CG6&7	\$ 26.34	LF
Concrete Curbs CG2&CG3	\$ 25.08	LF
Curb Cut, CG-12 with exposed aggregate	\$ 626.89	EA
Street Intersection CG-10A	\$ 94.04	SY
Concrete Pavement		
Portland Cement, reinforced, 6" Gravel (Rebar #4, 12" OC/EW)		
8"	\$ 165.50	SY
9"	\$ 175.53	SY
Portland Cement, WWF, 6" Gravel		
7"	\$ 112.84	SY
8"	\$ 124.13	SY
9"	\$ 132.90	SY

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CATEGORY	ENGLISH UNIT PRICE	UNIT
Cover Material		
No. 8	\$ 3.26	SY
No. 68	\$ 3.11	SY
No. 78	\$ 2.96	SY
Driveway Restoration		
2" S-5 6" Gravel	\$ 37.61	SY
4" concrete over 4" gravel	\$ 94.97	SY
Entrances/Driveways		
Commercial, CG-11	\$ 62.29	SY
Commercial, CG-13	\$ 76.28	SY
Entrance, CG-9	\$ 61.06	SY
Standard driveway, C&G/Sidewalk 4 transition DE-1	\$ 1,629.93	EA
Standard driveway, no curb, D-5 (DE-5)	\$ 61.06	SY
Guardrails		
Median Barrier, MB-3 (L=6'-3")	\$ 329.75	EA
Median Barrier, MB-3 (L=12'-6")	\$ 545.40	EA
Standard blocked-out W beam strong post, GR2	\$ 50.15	LF
Standard W beam, Weak Post GR8	\$ 32.60	LF
Terminal, GR-6 (L=12'-6")	\$ 3,447.91	EA
Terminal, GR-7 (L=6'-3")	\$ 3,134.46	EA
Terminal, MB-4 (L=37'-6")	\$ 4,137.50	EA
Type I, GR-8 Terminal (L=25')	\$ 1,629.93	EA
Type I, MB-5 Terminal (L=27'-1")	\$ 3,447.91	EA
Type II, GR-8 Terminal (L=13'-6")	\$ 787.37	EA
Type II, MB-5 Terminal (L=13'-6")	\$ 1,880.68	EA
Miscellaneous		
6" Pipe at Edge of Pavement	\$ 20.91	LF
Complete CE-7 package	\$ 3,874.19	LS
Final Street Acceptance Package	\$ 2,432.84	LS
Initial Street Acceptance Package	\$ 4,388.25	LS
Pipe stem from C&G, PS-1	\$ 43.88	SY
Pipe stem from ditch, PS-1	\$ 43.88	SY
Sign island	\$ 940.34	EA
Slope erosion, Control MC-3A Straight	\$ 5.64	LF
Street lighting, including pole, bracket and light	\$ 5,015.14	EA
Street name signs	\$ 501.51	EA
TB-1 Barricade	\$ 50.15	LF
Traffic control signs	\$ 438.82	EA
Shoulder Type I		
Aggregate Base, 4"	\$ 12.54	SY
Soil Stabilization		
Cement (6" depth) 6%	\$ 18.81	SY
Lime (6" depth) 6%	\$ 12.54	SY
Subbase, Aggregate Material		
Base, Type I, 6"	\$ 11.29	SY
Base, Type I, 8"	\$ 13.80	SY
Surface Treatment		
Double Seal	\$ 3.77	SY

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CATEGORY	ENGLISH UNIT PRICE	UNIT
<u>SIDEWALKS AND TRAILS</u>		
Sidewalk		
4" Concrete, No Reinforcement and no Base		
Concrete 4" - no reinforcement and no base	\$ 48.47	SY
Bituminous concrete -2" with 4" base		
Bituminous concrete -2" with 4" base	\$ 35.11	SY
Concrete 4" - no reinforcement and no base		
Concrete 4" with WWF and no base	\$ 52.66	SY
Handrail 3 Rail 1-1/4" Finish		
Handrail 3 rail 1-1/4" finish	\$ 112.84	LF
Underdrains, Sidewalk (UD-3)		
Underdrains, Sidewalk (UD-3)	\$ 19.11	LF
Concrete yard steps with railings		
4' wide, 3 steps	\$ 1,504.55	EA
4' wide, 5 steps	\$ 2,194.13	EA
Pedestrian bridge, prefabricated		
Bridge abutments		
4' wide	\$ 3,134.46	EA
8' wide	\$ 5,642.03	EA
Fair weather crossing		
Steel frame with wood deck (PA-1)	\$ 1,765.33	LF
Steel frame with wood deck (PA-1)		
4' wide	\$ 752.27	LF
8' wide	\$ 1,128.40	LF
Trails - INCLUDES excavation and grading		
Bituminous concrete - Type I, TX-2		
Up to 10' wide	\$ 57.67	SY
Concrete trail with gravel base		
Type IV, 4' - 6' Wide	\$ 67.70	SY
Earth trail, Type VI, 6' Wide		
Seal coat with 4" soil cement base	\$ 15.05	SY
Type III, TX-2, 6' Wide	\$ 18.81	SY
Stone dust with blue stone chip base		
Type II, TX-2, 6' wide	\$ 15.67	SY
Wood chip, 4' wide		
Woodchip trail with gravel base	\$ 20.56	SY
Type VII, 6'- 8' Wide	\$ 18.81	SY

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CATEGORY	ENGLISH UNIT PRICE	UNIT
<u>CRITICAL SLOPE STABILIZATION</u>		
<u>EROSION CONTROL</u>		
Concrete slopes		
Concrete slopes	\$ 8.78	SY
	\$ 112.84	SY
Deflectors		
Gabions	\$ 208.13	CY
Grid pavers	\$ 112.84	SY
Log cribbing	\$ 87.76	LF
Outlet Protection		
Concrete 4"	\$ 56.43	SY
Grouted rip rap , 18"	\$ 75.23	SY
Non-grouted rip rap , 18"	\$ 60.18	SY
Paved Flume		
Paved flume	\$ 78.99	SY
Rip Rap		
Level Spreader	\$ 5.02	SY
Rip rap 18", not grouted	\$ 57.67	SY
Stormwater channel excavation		
Stormwater Channel Excav Grass Lined-Seeded	\$ 8.78	SY
Stormwater Channel Grass Line Seeded Rip Rap 12", non grouted	\$ 15.06	SY
Stormwater Channel Grass Line Seeded Rip Rap 18", non grouted	\$ 65.23	SY
Stormwater Channel Grass Line Seeded Rip Rap 18", non grouted	\$ 75.24	SY
Stormwater Channel Grass Line Sodded	\$ 21.32	SY
Stormwater Channel Grass Line Sodded Rip Rap 12", non grouted	\$ 71.47	SY
Stormwater Channel Grass Line Sodded Rip Rap 18:, non grouted	\$ 81.50	SY
Stormwater Channel Excav Rip Rap 12" non grouted	\$ 58.93	SY
Stormwater Channel Excav Rip Rap 18" non grouted	\$ 68.96	SY
Structural Streambank Protection		
Biologs with live stakes	\$ 18.81	LF
Gabions	\$ 175.53	CY
Grouted rip rap 18"	\$ 87.76	SY
Non-grouted rip rap 18"	\$ 66.46	SY
Vegetative Erosion Control		
Jute mesh	\$ 2.01	SY
Paper and nylon mesh	\$ 1.88	SY
Plastic netting, 20 mil., 1" x 2" grid	\$ 1.32	SY
Seeding includes fertilizing	\$ 2.51	SY
Seeding with soil treatment and watering	\$ 3.77	SY
Sodding includes fertilizing - banks	\$ 8.78	SY
Sodding includes fertilizing - flat	\$ 6.27	SY
Sodding with soil treatment and watering	\$ 7.52	SY
Straw mulch with tack	\$ 1.57	SY

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CATEGORY	ENGLISH UNIT PRICE	UNIT
<u>Temporary Erosion Control</u>		
Check Dam		
Check dam - gravel	\$ 250.76	EA
Gravel Construction Entrance		
Gravel construction entrance, including wash rack	\$ 3,134.46	EA
Sediment Basin Cut		
Sediment basin cut	\$ 25.08	CY
Sediment Basin Remove and Fill Upon Completion		
Sediment basin remove and fill upon completion	\$ 31.35	CY
Sediment Trap Basin		
Sediment trap basin	\$ 10.03	CY
Silt Fence		
Silt fence	\$ 5.02	LF
Storm Drain Inlet Control		
Storm drain inlet control	\$ 200.60	EA
Super Silt Fence		
Super silt fence	\$ 12.54	LF
Slope Retention Structures- NO mobilization included		
Concrete encasement of H sect., 3000psi	\$ 25.08	VLF
Granular backfill	\$ 32.60	CY
Pre-auger, 24" diameter to 30 feet, normal soil	\$ 30.09	VLF
Retaining Walls, concrete gravity, up to 6' HT, RW-2	\$ 401.21	LF
Retain Walls, concrete gravity, up to 6' HT, RW-3	\$ 451.36	LF
Sheet piling	\$ 41.38	SF
Soil stabilization fabric	\$ 2.77	SY
Steel H section, 12 x 53	\$ 32.60	VLF
Whaler, 12"x12" prestressed concrete	\$ 31.35	LF
Whaler, 12"x12" treated timber	\$ 22.57	LF
Stream diversion		
Cut and haul	\$ 31.35	CY
Fill diversion and restore stream bank upon completion	\$ 25.08	CY
Rip rap base/sides with filter cloth	\$ 25.08	SF
Sand bag diversion in water	\$ 150.45	CY
Slope sides	\$ 3.77	SF
Temporary Riser Structure <10'HT: Install/Remove		
Temporary Diversion Dike		
Temporary diversion dike	\$ 10.03	LF
Temporary Sediment Trap		
Temporary sediment trap	\$ 9.41	CY
Temporary Sediment Trap Gravel Outlet		
Temporary sediment trap gravel outlet	\$ 31.35	LF
Tree Protection Fencing		
Tree Protection fencing	\$ 10.03	LF
Temporary Riser		
Temporary riser structure up to 10' tall - install and remove	\$ 4,513.63	EA

COUNTY OF FAIRFAX, VIRGINIA
DEPARTMENT OF PUBLIC WORKS ENVIRONMENTAL SERVICES
LAND DEVELOPMENT SERVICES
2016 COMPREHENSIVE UNIT PRICE SCHEDULE
EFFECTIVE FEBRUARY 1, 2016

CATEGORY	ENGLISH UNIT PRICE	UNIT
LOW IMPACT DEVELOPMENT (LID)		
Bioretention		
Bio retention basins - volume	\$ 95.29	CY
Bio retention filters - volume	\$ 95.29	CY
Constructed Wetlands		
Includes trees, shrubs, grass (Not rebuild streams/wetlands)	\$ 27.58	SY
Landscaping at bioretention filters/basins - See Landscape Section		
Extended Detention Basin		
Extended detention basin pipe inlet	\$ 1,880.68	EA
Extended detention basin - interior volume (includes forebay volume)	\$ 32.60	CY
Extended detention basin pipe outlet with rip rap	\$ 4,012.12	EA
Extended detention basin rip rap channel	\$ 45.14	SY
Extended detention basin riser structure	\$ 438.82	VLF
Manufactured BMP Systems		
Manufactured BMP systems - hydrodynamics	\$ 75.23	CY
Manufactured BMP systems - filtering	\$ 110.33	CY
Overflow Spillway		
Stabilized overflow spillway	\$ 313.45	SY
Porous Pavement System		
Asphalt with gravel base and perforated drains	\$ 42.63	SY
Brick pavers with gravel base	\$ 127.89	SY
Grass pavers with gravel base	\$ 50.15	SY
Reforestation		
Reforestation	\$ 56,420.35	AC
Retention Basin		
Basin pipe inlet	\$ 1,880.68	EA
Interior volume (includes forebay volume)	\$ 32.60	CY
Outlet with rip rap	\$ 4,012.12	EA
Riser structure	\$ 313.45	VLF
Tree Box Filter		
Tree box filter - with grate and frame 6'x6', without tree	\$ 2,194.13	EA
Tree box filter - with grate and frame 8'X8', without tree	\$ 3,259.84	EA
Tree in tree box filter	\$ 814.96	EA
Tree Box Outfall		
Tree box outfall 4" schedule 40 PVC with gravel backfill	\$ 40.12	LF
Vegetated roofs with granular drainage and plantings		
Aluminum Curbing for 6 inch depth	\$ 10.03	LF
Aluminum Curbing for 12 inch depth	\$ 12.54	LF
Extensive	\$ 225.68	SY
Filter fabric	\$ 1.57	SF
Gravel/concrete pavers forming vegetation-free strip	\$ 15.05	SF
Intensive - 18 inches maximum	\$ 338.52	SY
Irrigation to vegetated roof	\$ 3.77	SF
Leak detection system	\$ 2.51	SF
Thermal insulation	\$ 3.77	SF
Vegetated swales		
Check dams with filter fabric for vegetated swale	\$ 62.69	CY
Complete swale includes: piping/underdrain, fill, filter fabric and media	\$ 95.29	CY
Outlet protection with filter fabric for vegetated swale	\$ 62.69	CY