

# **Appendix N**

## **Utility Impacts**

Utility Impacts by Section (in dollars)				
Section	Type	VA1/NC1 Alternative	VA2/NC2 Alternative	VA3/NC3 Alternative
<b>Virginia Sections</b>				
AA	Power	\$14,540,000	\$14,540,000	\$14,540,000
	Telephone	\$3,646,250	\$3,646,250	\$3,646,250
	Cable TV	\$120,000	\$120,000	\$120,000
	Water	\$1,820,000	\$1,820,000	\$1,820,000
	Gas	\$218,000	\$218,000	\$218,000
	Sewer	\$125,000	\$125,000	\$125,000
	<b>TOTAL COST</b>	<b>\$20,469,250</b>	<b>\$20,469,250</b>	<b>\$20,469,250</b>
BB	Power	\$1,130,000	\$1,130,000	\$1,130,000
	Telephone	\$2,141,850	\$2,141,850	\$2,141,850
	Cable TV	\$35,000	\$35,000	\$35,000
	Water	\$52,500	\$52,500	\$52,500
	Gas	\$510,000	\$510,000	\$510,000
	Sewer	\$5,000	\$5,000	\$5,000
	<b>TOTAL COST</b>	<b>\$3,874,350</b>	<b>\$3,874,350</b>	<b>\$3,874,350</b>
CC	Power	\$890,000	\$890,000	\$890,000
	Telephone	\$2,411,800	\$2,411,800	\$2,411,800
	Cable TV	\$60,000	\$60,000	\$60,000
	Water	\$1,000,000	\$1,000,000	\$1,000,000
	Gas	\$125,000	\$125,000	\$125,000
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$4,486,800</b>	<b>\$4,486,800</b>	<b>\$4,486,800</b>
DD	Power	\$1,870,000	\$1,620,000	\$1,620,000

Utility Impacts by Section (in dollars)				
Section	Type	VA1/NC1 Alternative	VA2/NC2 Alternative	VA3/NC3 Alternative
	Telephone	\$721,500	\$721,500	\$721,500
	Cable TV	\$0	\$0	\$0
	Water	\$0	\$65,000	\$80,000
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$2,591,500</b>	<b>\$2,406,500</b>	<b>\$2,421,500</b>
A	Power	\$167,500	\$167,500	\$167,500
	Telephone	\$278,175	\$248,175	\$278,175
	Cable TV	\$0	\$0	\$0
	Water	\$0	\$0	\$0
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$415,675</b>	<b>\$415,675</b>	<b>\$415,675</b>
B	Power	\$148,000	\$148,000	\$148,000
	Telephone	\$116,400	\$147,200	\$116,400
	Cable TV	\$0	\$0	\$0
	Water	\$0	\$0	\$0
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$264,400</b>	<b>\$295,200</b>	<b>\$264,400</b>
C	Power	\$610,000	\$610,000	\$610,000
	Telephone	\$962,650	\$962,650	\$962,650
	Cable TV	\$0	\$0	\$0
	Water	\$151,000	\$151,000	\$151,000

Utility Impacts by Section (in dollars)				
Section	Type	VA1/NC1 Alternative	VA2/NC2 Alternative	VA3/NC3 Alternative
	Gas	\$0	\$0	\$0
	Sewer	\$151,000	\$151,000	\$151,000
	<b>TOTAL COST</b>	<b>\$1,874,650</b>	<b>\$1,874,650</b>	<b>\$1,874,650</b>
D	Power	\$430,000	\$430,000	\$430,000
	Telephone	\$853,500	\$225,600	\$853,500
	Cable TV	\$0	\$0	\$0
	Water	\$0	\$0	\$0
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$1,283,500</b>	<b>\$655,600</b>	<b>\$1,283,500</b>
E	Power	\$252,000	\$252,000	\$252,000
	Telephone	\$190,900	\$190,900	\$190,900
	Cable TV	\$0	\$0	\$0
	Water	\$275,000	\$275,000	\$275,000
	Gas	\$0	\$0	\$0
	Sewer	\$48,000	\$48,000	\$48,000
	<b>TOTAL COST</b>	<b>\$765,900</b>	<b>\$765,900</b>	<b>\$765,900</b>
F	Power	\$83,000	\$83,000	\$83,000
	Telephone	\$206,925	\$206,925	\$206,925
	Cable TV	\$0	\$0	\$0
	Water	\$60,000	\$60,000	\$60,000
	Gas	\$0	\$0	\$0
	Sewer	\$60,000	\$60,000	\$60,000
	<b>TOTAL COST</b>	<b>\$409,925</b>	<b>\$409,925</b>	<b>\$409,925</b>

Utility Impacts by Section (in dollars)				
Section	Type	VA1/NC1 Alternative	VA2/NC2 Alternative	VA3/NC3 Alternative
G	Power	\$0	\$0	\$0
	Telephone	\$191,700	\$160,200	\$191,700
	Cable TV	\$0	\$0	\$0
	Water	\$0	\$0	\$0
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$191,700</b>	<b>\$160,200</b>	<b>\$191,700</b>
H	Power	\$448,000	\$448,000	\$448,000
	Telephone	\$109,900	\$96,700	\$109,900
	Cable TV	\$0	\$0	\$0
	Water	\$0	\$0	\$0
	Gas	\$170,000	\$170,000	\$170,000
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$727,900</b>	<b>\$714,700</b>	<b>\$727,900</b>
I	Power	\$460,000	\$420,000	\$460,000
	Telephone	\$345,950	\$316,000	\$345,950
	Cable TV	\$0	\$0	\$0
	Water	\$185,500	\$185,500	\$185,500
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$990,950</b>	<b>\$921,000</b>	<b>\$990,950</b>
J	Power	\$168,000	\$240,000	\$168,000
	Telephone	\$244,150	\$756,550	\$244,150
	Cable TV	\$0	\$0	\$0

Utility Impacts by Section (in dollars)				
Section	Type	VA1/NC1 Alternative	VA2/NC2 Alternative	VA3/NC3 Alternative
	Water	\$0	\$0	\$0
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$412,150</b>	<b>\$996,550</b>	<b>\$412,150</b>
K	Power	\$48,000	\$48,000	\$48,000
	Telephone	\$304,900	\$304,900	\$304,900
	Cable TV	\$0	\$0	\$0
	Water	\$45,000	\$45,000	\$45,000
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$397,900</b>	<b>\$397,900</b>	<b>\$397,900</b>
L	Power	\$434,000	\$434,000	\$434,000
	Telephone	\$25,200	\$29,400	\$25,200
	Cable TV	\$0	\$0	\$0
	Water	\$0	\$0	\$0
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$459,200</b>	<b>\$463,400</b>	<b>\$459,200</b>
<b>North Carolina Sections</b>				
L	Power	\$200,697	\$291,913	\$200,697
	Telephone	80,400	100,500	80,400
	Water	\$262,500	\$487,500	\$262,500
	Gas	\$0	\$0	\$0

Utility Impacts by Section (in dollars)				
Section	Type	VA1/NC1 Alternative	VA2/NC2 Alternative	VA3/NC3 Alternative
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$543,597</b>	<b>\$879,913</b>	<b>\$543,597</b>
M	Power	\$342,341	\$342,341	\$342,341
	Telephone	\$197,700	\$197,700	\$197,700
	Water	\$712,500	\$712,500	\$712,500
	Gas	\$90,570	\$90,570	\$90,570
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$1,343,111</b>	<b>\$1,343,111</b>	<b>\$1,343,111</b>
N	Power	\$151,245	\$136,837	\$151,245
	Telephone	\$60,300	\$33,500	\$60,300
	Water	\$112,500	\$112,500	\$112,500
	Gas	\$181,140	\$181,140	\$181,400
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$505,185</b>	<b>\$463,977</b>	<b>\$505,185</b>
O	Power	\$144,080	\$144,080	\$129,672
	Telephone	\$60,300	\$60,300	\$60,300
	Water	\$0	\$0	\$0
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$204,380</b>	<b>\$204,380</b>	<b>\$189,972</b>
P	Power	\$436,878	\$436,878	\$436,878
	Telephone	\$312,430	\$312,430	\$312,430
	Water	\$637,500	\$637,500	\$637,500
	Gas	\$769,845	\$769,845	\$769,845

Utility Impacts by Section (in dollars)				
Section	Type	VA1/NC1 Alternative	VA2/NC2 Alternative	VA3/NC3 Alternative
	Sewer	\$527,000	\$527,000	\$527,000
	<b>TOTAL COST</b>	<b>\$2,683,653</b>	<b>\$2,683,653</b>	<b>\$2,683,653</b>
Q	Power	\$480,050	\$489,651	\$480,050
	Telephone	\$134,000	\$140,700	\$134,000
	Water	\$67,500	\$45,000	\$67,500
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$681,550</b>	<b>\$675,351</b>	<b>\$622,207</b>
R	Power	\$19,202	\$19,202	\$19,202
	Telephone	\$2,680	\$2,680	\$2,680
	Water	\$0	\$0	\$0
	Gas	\$0	\$0	\$0
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$21,882</b>	<b>\$21,882</b>	<b>\$21,882</b>
S	Power	\$547,257	\$518,454	\$547,257
	Telephone	\$116,580	\$109,880	\$116,580
	Water	\$210,000	\$210,000	\$210,000
	Gas	\$181,140	\$181,140	\$181,140
	Sewer	\$0	\$0	\$0
	<b>TOTAL COST</b>	<b>\$1,054,977</b>	<b>1,019,474</b>	<b>\$1,054,977</b>
T	Power	\$288,030	\$288,030	\$288,030
	Telephone	\$49,580	\$49,580	\$49,580
	Water	\$187,500	\$0	\$187,500
	Gas	\$226,425	\$0	\$226,425



Utility Impacts by Section (in dollars)				
Section	Type	VA1/NC1 Alternative	VA2/NC2 Alternative	VA3/NC3 Alternative
	Sewer	\$155,000	\$0	\$155,000
	<b>TOTAL COST</b>	\$906,535	\$337,610	\$906,535
U	Power	\$307,232	\$307,232	\$307,232
	Telephone	\$100,500	\$100,500	\$100,500
	Water	\$562,500	\$562,500	\$562,500
	Gas	\$679,275	\$679,275	\$679,275
	Sewer	\$465,000	\$465,000	\$465,000
	<b>TOTAL COST</b>	\$2,114,507	\$2,114,507	\$2,114,507
V	Power	\$576,060	\$576,060	\$432,045
	Telephone	\$361,800	\$361,800	\$308,200
	Water	\$562,500	\$562,500	\$562,500
	Gas	\$679,275	\$679,275	\$679,275
	Sewer	\$465,000	\$465,000	\$465,000
	<b>TOTAL COST</b>	\$2,644,635	\$2,644,635	\$2,447,020

**Source:** NCDOT, 2008, 2009; VDRPT, 2006, 2009.

### Reference Format Example

Virginia Department of Transportation, 2006, 2009. Right of Way and Utility Estimates. VDOT District Right of Way and Utilities Office, Colonial Heights, VA.

North Carolina Department of Transportation, 2008, 2009. Utility Estimates. NCDOT Utilities and Encroachments Engineering Unit, Raleigh, NC