



# NIXON PEABODY LLP

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November 15, 2004

## **HAND DELIVER**

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City of Providence  
Department of Law  
275 Westminster Street  
Providence, Rhode Island 02903

RE: Narragansett Electric Company - E-183 Transmission Line Relocation Project

Dear Paul, Mark and Adrienne:

I am enclosing estimates for six variations of the E-183 underground alternative pursuant to §II-D-2 of the Settlement Agreement dated May 25, 2004 ("Settlement Agreement.") I am also enclosing a revised plan of the underground route which shows a modification to the route at the east side of the Providence River. This modification is necessary because of the recent discovery of subsurface obstructions related to the Hurricane Barrier and along India Street. In constructing the abutments for the new Providence River Bridge, RIDOT's contractor has encountered significant subsurface obstructions under the River including old concrete and steel cofferdams that were apparently used to construct the Hurricane Barrier. Because of these and other obstructions and the design of the new bridge abutments, it is necessary to land the horizontal directional drill in the parking lot to the south of Al Forno (north of Tockwotton Street, between South Water and South Main.)

Due to the fact that we have not finalized the choice of the best technology nor the site for the East Providence transition station we are providing six estimates reflecting two technology choices (pipe-type and solid dielectric) and three site choices for the East Providence transition station.

The first site is the New England Gas Company Site on Mauran Avenue which the parties have previously discussed. Narragansett is continuing to assess the feasibility of using this site.

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Paul J. Roberti, Esq.  
W. Mark Russo, Esq.  
Adrienne G. Southgate, Esq.  
November 15, 2004  
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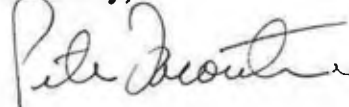
The second site is the Boston Street site which was identified by the City of East Providence. We have determined that the parking lot on the Boston Street site is too small for the transition station and that it would be necessary to raze the building on the site if the site is to be used for a transition station. Before approaching the owner for permission to perform any site investigation, we are waiting for confirmation that East Providence has advised the owner of the property that it is a potential transition station site. The third potential transition station site is the northeasterly side of the Tockwotton property near Mauran Avenue under the relocated Phillipsdale Tap Line. We have had preliminary discussions with representatives of Tockwotton and feel that this potential site is feasible. The Tockwotton site may also have fewer issues than the other sites.

In developing the estimates for the options, Narragansett has included the cost of construction and removal of Phase I as provided in §II-D-2 of the Settlement Agreement. Additional assumptions are listed as notes on each of the estimates.

Narragansett will require eighty (80) foot easements for the relocated Phillipsdale Tap Line and thirty (30) foot easements for the underground portions of the line.

After you have reviewed the estimates we would like to meet with you to discuss them.

Sincerely,



Peter V. Lacouture

PVL/kac

Enclosures

## The Narragansett Electric Company - E183 Undergrounding

Estimate of: Franklin Square to Phillipsdale Tap  
Boston Street Transition Site - Pipe Type Cable

TRANSMISSION CABLE						
Item	Material	Labor	Other	Removal	O&M	Total
Cable System, less HDD's and Bore	3,123	130	1,623		22	4,898
Horizontal Directional Drills			2,947			2,947
I-195 Pipejacking (Bore)			500			500
Sales Tax (7%)	219					219
Preliminary Engineering			139			139
Engineering, Design, Supervision		160	615			775
Subtotal: Transmission Cable	3,342	290	5,824	0	22	9,478
Contingency (5%M, 15%L, 25% HDD,Bore)	167	44	1,105	0	3	1,319
Subtotal: Transmission Cable	3,509	334	6,929	0	25	10,797
General and Administrative (0.36%)			39			39
<b>Total: Transmission Cable</b>	<b>3,509</b>	<b>334</b>	<b>6,968</b>	<b>0</b>	<b>25</b>	<b>10,835</b>

TRANSITION STATIONS						
Item	Material	Labor	Other	Removal	O&M	Total
Franklin Square Transition Station	313	430	50			793
Tockwotton Transition Station	343	423	55			821
Sales Tax (7%)	46					46
Preliminary Engineering			18			18
Engineering, Design, Supervision			159			159
Subtotal: Substation	702	853	282	0	0	1,836
Contingency (7.5% on all)	53	64	21	0	0	138
Subtotal: Substation	755	917	303	0	0	1,974
General and Administrative (0.36%)			7			7
<b>Total: Transition Stations</b>	<b>755</b>	<b>917</b>	<b>310</b>	<b>0</b>	<b>0</b>	<b>1,981</b>

OVERHEAD LINES						
Item	Material	Labor	Other	Removal	O&M	Total
<b>Phase 1</b>						
Construct Phase 1 OH in RIDOT Area	479	393	195		25	1,092
Remove Existing OH in RIDOT Area				175		175
Sales Tax (7%)	33					33
Preliminary Engineering			880			880
Engineering, Design, Supervision		75				75
Subtotal: Overhead Phase 1	512	468	1,075	175	25	2,255
Remove E183 - Fr Sq to Phillipsdale Tap				300		300
<b>Rebuild Phillipsdale Tap, and Install Tap to Transition Station</b>						
Construct Phillipsdale Tap, and Tap to Station	377	304	123		25	829
Remove Existing Phillipsdale Tap				85		85
Sales Tax (7%)	26					26
Preliminary Engineering			15			15
Engineering, Design, Supervision		40				40
Subtotal: Phillipsdale Tap	403	344	138	85	25	995
Subtotal: Overhead Transmission	915	812	1,213	560	50	3,550
General and Administrative (0.36%)			11			11
<b>Total: Overhead Transmission</b>	<b>915</b>	<b>812</b>	<b>1,224</b>	<b>560</b>	<b>50</b>	<b>3,561</b>

<b>Total Costs</b>	<b>5,179</b>	<b>2,062</b>	<b>8,501</b>	<b>560</b>	<b>75</b>	<b>16,378</b>
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Estimate Tolerance	
Low (- 5% Substn and OH, -10 % UG)	15,017
High (+ 5% Substn and OH, +15 % UG)	18,280

## Notes

- 1) Land and land rights are not included for lines or transition stations.
- 2) Contaminated soil remediation costs not included.
- 3) Overhead line contingencies 5 % material, 15 % Labor, 10% other.
- 4) UG line and substation contingencies as stated above.
- 5) AFUDC costs not included.
- 6) Costs for razing existing buildings are not included.
- 7) All costs are in thousands of 2004 \$.

## The Narragansett Electric Company - E183 Undergrounding

Estimate of: Franklin Square to Phillipsdale Tap  
Boston Street Transition Site - Solid Dielectric Cable

TRANSMISSION CABLE						
Item	Material	Labor	Other	Removal	O&M	Total
Cable System, less HDD's and Bore	2,866	130	2,233		22	5,251
Horizontal Directional Drills			3,187			3,187
I-195 Pipejacking (Bore)			500			500
Sales Tax (7%)	201					201
Preliminary Engineering			139			139
Engineering, Design, Supervision		160	615			775
Subtotal: Transmission Cable	3,067	290	6,674	0	22	10,053
Contingency (5%M, 15%L, 25% HDD,Bore)	153	44	1,257	0	3	1,457
Subtotal: Transmission Cable	3,220	334	7,931	0	25	11,509
General and Administrative (0.36%)			41			41
<b>Total: Transmission Cable</b>	<b>3,220</b>	<b>334</b>	<b>7,972</b>	<b>0</b>	<b>25</b>	<b>11,551</b>

TRANSITION STATIONS						
Item	Material	Labor	Other	Removal	O&M	Total
Franklin Square Transition Station	313	430	50			793
Tockwotton Transition Station	343	423	55			821
Sales Tax (7%)	46					46
Preliminary Engineering			18			18
Engineering, Design, Supervision			159			159
Subtotal: Substation	702	853	282	0	0	1,836
Contingency (7.5% on all)	53	64	21	0	0	138
Subtotal: Substation	755	917	303	0	0	1,974
General and Administrative (0.36%)			7			7
<b>Total: Transition Stations</b>	<b>755</b>	<b>917</b>	<b>310</b>	<b>0</b>	<b>0</b>	<b>1,981</b>

OVERHEAD LINES						
Item	Material	Labor	Other	Removal	O&M	Total
<b>Phase 1</b>						
Construct Phase 1 OH in RIDOT Area	479	393	195		25	1,092
Remove Existing OH in RIDOT Area				175		175
Sales Tax (7%)	33					33
Preliminary Engineering			880			880
Engineering, Design, Supervision		75				75
Subtotal: Overhead Phase 1	512	468	1,075	175	25	2,255
Remove E183 - Fr Sq to Phillipsdale Tap				300		300
<b>Rebuild Phillipsdale Tap, and Install Tap to Transition Station</b>						
Construct Phillipsdale Tap, and Tap to Station	377	304	123		25	829
Remove Existing Phillipsdale Tap				85		85
Sales Tax (7%)	26					26
Preliminary Engineering			15			15
Engineering, Design, Supervision		40				40
Subtotal: Phillipsdale Tap	403	344	138	85	25	995
Subtotal: Overhead Transmission	915	812	1,213	560	50	3,550
General and Administrative (0.36%)			11			11
<b>Total: Overhead Transmission</b>	<b>915</b>	<b>812</b>	<b>1,224</b>	<b>560</b>	<b>50</b>	<b>3,561</b>

<b>Total Costs</b>	<b>4,890</b>	<b>2,062</b>	<b>9,505</b>	<b>560</b>	<b>75</b>	<b>17,093</b>
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Estimate Tolerance	
Low (- 5% Substn and OH, -10 % UG)	15,661
High (+ 5% Substn and OH, +15 % UG)	19,103

## Notes

- 1) Land and land rights are not included for lines or transition stations.
- 2) Contaminated soil remediation costs not included.
- 3) Overhead line contingencies 5 % material, 15 % Labor, 10% other.
- 4) UG line and substation contingencies as stated above.
- 5) AFUDC costs not included.
- 6) Costs for razing existing buildings are not included.
- 7) All costs are in thousands of 2004 \$.

The Narragansett Electric Company - E183 Undergrounding

Estimate of: Franklin Square to Phillipsdale Tap  
New England Gas Transition Site - Pipe Type Cable

TRANSMISSION CABLE						
Item	Material	Labor	Other	Removal	O&M	Total
Cable System, less HDD's and Bore	3,086	130	1,595		22	4,833
Horizontal Directional Drills			2,947			2,947
I-195 Pipejacking (Bore)			500			500
Sales Tax (7%)	216					216
Preliminary Engineering			139			139
Engineering, Design, Supervision		160	615			775
Subtotal: Transmission Cable	3,302	290	5,796	0	22	9,410
Contingency (5%M, 15%L, 25% HDD,Bore)	165	44	1,101	0	3	1,313
Subtotal: Transmission Cable	3,467	334	6,897	0	25	10,723
General and Administrative (0.36%)			39			39
<b>Total: Transmission Cable</b>	<b>3,467</b>	<b>334</b>	<b>6,936</b>	<b>0</b>	<b>25</b>	<b>10,761</b>

TRANSITION STATIONS						
Item	Material	Labor	Other	Removal	O&M	Total
Franklin Square Transition Station	313	430	50			793
Tockwotton Transition Station	343	423	55			821
Sales Tax (7%)	46					46
Preliminary Engineering			18			18
Engineering, Design, Supervision			159			159
Subtotal: Substation	702	853	282	0	0	1,836
Contingency (7.5% on all)	53	64	21	0	0	138
Subtotal: Substation	755	917	303	0	0	1,974
General and Administrative (0.36%)			7			7
<b>Total: Transition Stations</b>	<b>755</b>	<b>917</b>	<b>310</b>	<b>0</b>	<b>0</b>	<b>1,981</b>

OVERHEAD LINES						
Item	Material	Labor	Other	Removal	O&M	Total
<b>Phase 1</b>						
Construct Phase 1 OH in RIDOT Area	479	393	195		25	1,092
Remove Existing OH in RIDOT Area				175		175
Sales Tax (7%)	33					33
Preliminary Engineering			880			880
Engineering, Design, Supervision		75				75
Subtotal: Overhead Phase 1	512	468	1,075	175	25	2,255
Remove E183 - Fr Sq to Phillipsdale Tap				300		300
<b>Rebuild Phillipsdale Tap, and Install Tap to Transition Station</b>						
Construct Phillipsdale Tap, and Tap to Station	304	254	101		25	684
Remove Existing Phillipsdale Tap				70		70
Sales Tax (7%)	21					21
Preliminary Engineering			15			15
Engineering, Design, Supervision		40				40
Subtotal: Phillipsdale Tap	325	294	116	70	25	830
Subtotal: Overhead Transmission	837	762	1,191	545	50	3,385
General and Administrative (0.36%)			10			10
<b>Total: Overhead Transmission</b>	<b>837</b>	<b>762</b>	<b>1,201</b>	<b>545</b>	<b>50</b>	<b>3,395</b>

<b>Total Costs</b>	<b>5,059</b>	<b>2,012</b>	<b>8,446</b>	<b>545</b>	<b>75</b>	<b>16,138</b>
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Estimate Tolerance	
Low (- 5% Substn and OH, -10 % UG)	14,793
High (+ 5% Substn and OH, +15 % UG)	18,021

Notes

- 1) Land and land rights are not included for lines or transition stations.
- 2) Contaminated soil remediation costs not included.
- 3) Overhead line contingencies 5 % material, 15 % Labor, 10% other.
- 4) UG line and substation contingencies as stated above.
- 5) AFUDC costs not included.
- 6) Costs for razing existing buildings are not included.
- 7) All costs are in thousands of 2004 \$.

The Narragansett Electric Company - E183 Undergrounding

Estimate of: Franklin Square to Phillipsdale Tap  
New England Gas Transition Site - Solid Dielectric Cable

TRANSMISSION CABLE						
Item	Material	Labor	Other	Removal	O&M	Total
Cable System, less HDD's and Bore	2,827	130	2,200		22	5,179
Horizontal Directional Drills			3,187			3,187
I-195 Pipejacking (Bore)			500			500
Sales Tax (7%)	198					198
Preliminary Engineering			139			139
Engineering, Design, Supervision		160	615			775
Subtotal: Transmission Cable	3,025	290	6,641	0	22	9,978
Contingency (5%M, 15%L, 25% HDD,Bore)	151	44	1,252	0	3	1,450
Subtotal: Transmission Cable	3,176	334	7,893	0	25	11,428
General and Administrative (0.36%)			41			41
<b>Total: Transmission Cable</b>	<b>3,176</b>	<b>334</b>	<b>7,934</b>	<b>0</b>	<b>25</b>	<b>11,469</b>

TRANSITION STATIONS						
Item	Material	Labor	Other	Removal	O&M	Total
Franklin Square Transition Station	313	430	50			793
Tockwotton Transition Station	343	423	55			821
Sales Tax (7%)	46					46
Preliminary Engineering			18			18
Engineering, Design, Supervision			159			159
Subtotal: Substation	702	853	282	0	0	1,836
Contingency (7.5% on all)	53	64	21	0	0	138
Subtotal: Substation	755	917	303	0	0	1,974
General and Administrative (0.36%)			7			7
<b>Total: Transition Stations</b>	<b>755</b>	<b>917</b>	<b>310</b>	<b>0</b>	<b>0</b>	<b>1,981</b>

OVERHEAD LINES						
Item	Material	Labor	Other	Removal	O&M	Total
<b>Phase 1</b>						
Construct Phase 1 OH in RIDOT Area	479	393	195		25	1,092
Remove Existing OH in RIDOT Area				175		175
Sales Tax (7%)	33					33
Preliminary Engineering			880			880
Engineering, Design, Supervision		75				75
<b>Subtotal: Overhead Phase 1</b>	<b>512</b>	<b>468</b>	<b>1,075</b>	<b>175</b>	<b>25</b>	<b>2,255</b>
Remove E183 - Fr Sq to Phillipsdale Tap				300		300
<b>Rebuild Phillipsdale Tap, and Install Tap to Transition Station</b>						
Construct Phillipsdale Tap, and Tap to Station	304	254	101		25	684
Remove Existing Phillipsdale Tap				70		70
Sales Tax (7%)	21					21
Preliminary Engineering			15			15
Engineering, Design, Supervision		40				40
Subtotal: Phillipsdale Tap	325	294	116	70	25	830
Subtotal: Overhead Transmission	837	762	1,191	545	50	3,385
General and Administrative (0.36%)			10			10
<b>Total: Overhead Transmission</b>	<b>837</b>	<b>762</b>	<b>1,201</b>	<b>545</b>	<b>50</b>	<b>3,395</b>

<b>Total Costs</b>	<b>4,768</b>	<b>2,012</b>	<b>9,445</b>	<b>545</b>	<b>75</b>	<b>16,845</b>
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Estimate Tolerance	
Low (- 5% Substn and OH, -10 % UG)	15,430
High (+ 5% Substn and OH, +15 % UG)	18,834

Notes

- 1) Land and land rights are not included for lines or transition stations.
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- 3) Overhead line contingencies 5 % material, 15 % Labor, 10% other.
- 4) UG line and substation contingencies as stated above.
- 5) AFUDC costs not included.
- 6) Costs for razing existing buildings are not included.
- 7) All costs are in thousands of 2004 \$.

## The Narragansett Electric Company - E183 Undergrounding

Estimate of: Franklin Square to Phillipsdale Tap  
Tockwotton Transition Site - Pipe Type Cable

TRANSMISSION CABLE						
Item	Material	Labor	Other	Removal	O&M	Total
Cable System, less HDD's and Bore	3,086	130	1,595		22	4,833
Horizontal Directional Drills			2,947			2,947
I-195 Pipejacking (Bore)			500			500
Sales Tax (7%)	216					216
Preliminary Engineering			139			139
Engineering, Design, Supervision		160	615			775
Subtotal: Transmission Cable	3,302	290	5,796	0	22	9,410
Contingency (5%M, 15%L, 25% HDD,Bore)	165	44	1,101	0	3	1,313
Subtotal: Transmission Cable	3,467	334	6,897	0	25	10,723
General and Administrative (0.36%)			39			39
<b>Total: Transmission Cable</b>	<b>3,467</b>	<b>334</b>	<b>6,936</b>	<b>0</b>	<b>25</b>	<b>10,761</b>

TRANSITION STATIONS						
Item	Material	Labor	Other	Removal	O&M	Total
Franklin Square Transition Station	313	430	50			793
Tockwotton Transition Station	343	423	55			821
Sales Tax (7%)	46					46
Preliminary Engineering			18			18
Engineering, Design, Supervision			159			159
Subtotal: Substation	702	853	282	0	0	1,836
Contingency (7.5% on all)	53	64	21	0	0	138
Subtotal: Substation	755	917	303	0	0	1,974
General and Administrative (0.36%)			7			7
<b>Total: Transition Stations</b>	<b>755</b>	<b>917</b>	<b>310</b>	<b>0</b>	<b>0</b>	<b>1,981</b>

OVERHEAD LINES						
Item	Material	Labor	Other	Removal	O&M	Total
<b>Phase 1</b>						
Construct Phase 1 OH in RIDOT Area	479	393	195		25	1,092
Remove Existing OH in RIDOT Area				175		175
Sales Tax (7%)	33					33
Preliminary Engineering			880			880
Engineering, Design, Supervision		75				75
Subtotal: Overhead Phase 1	512	468	1,075	175	25	2,255
Remove E183 - Fr Sq to Phillipsdale Tap				300		300
<b>Rebuild Phillipsdale Tap, and Install Tap to Transition Station</b>						
Construct Phillipsdale Tap, and Tap to Station	239	215	89		25	568
Remove Existing Phillipsdale Tap				70		70
Sales Tax (7%)	17					17
Preliminary Engineering			15			15
Engineering, Design, Supervision		40				40
Subtotal: Phillipsdale Tap	256	255	104	70	25	710
Subtotal: Overhead Transmission	768	723	1,179	545	50	3,265
General and Administrative (0.36%)			10			10
<b>Total: Overhead Transmission</b>	<b>768</b>	<b>723</b>	<b>1,189</b>	<b>545</b>	<b>50</b>	<b>3,274</b>

<b>Total Costs</b>	<b>4,989</b>	<b>1,973</b>	<b>8,434</b>	<b>545</b>	<b>75</b>	<b>16,017</b>
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Estimate Tolerance	
Low (- 5% Substn and OH, -10 % UG)	14,678
High (+ 5% Substn and OH, +15 % UG)	17,894

## Notes

- 1) Land and land rights are not included for lines or transition stations.
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- 4) UG line and substation contingencies as stated above.
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## The Narragansett Electric Company - E183 Undergrounding

Estimate of: Franklin Square to Phillipsdale Tap  
Tockwotton Transition Site - Solid Dielectric Cable

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Item	Material	Labor	Other	Removal	O&M	Total
Cable System, less HDD's and Bore	2,827	130	2,200		22	5,179
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Preliminary Engineering			139			139
Engineering, Design, Supervision		160	615			775
Subtotal: Transmission Cable	3,025	290	6,641	0	22	9,978
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Subtotal: Transmission Cable	3,176	334	7,893	0	25	11,428
General and Administrative (0.36%)			41			41
<b>Total: Transmission Cable</b>	<b>3,176</b>	<b>334</b>	<b>7,934</b>	<b>0</b>	<b>25</b>	<b>11,469</b>

TRANSITION STATIONS						
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Franklin Square Transition Station	313	430	50			793
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Subtotal: Substation	755	917	303	0	0	1,974
General and Administrative (0.36%)			7			7
<b>Total: Transition Stations</b>	<b>755</b>	<b>917</b>	<b>310</b>	<b>0</b>	<b>0</b>	<b>1,981</b>

OVERHEAD LINES						
Item	Material	Labor	Other	Removal	O&M	Total
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Remove Existing Phillipsdale Tap				70		70
Sales Tax (7%)	17					17
Preliminary Engineering			15			15
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Subtotal: Overhead Transmission	768	723	1,179	545	50	3,265
General and Administrative (0.36%)			10			10
<b>Total: Overhead Transmission</b>	<b>768</b>	<b>723</b>	<b>1,189</b>	<b>545</b>	<b>50</b>	<b>3,274</b>

<b>Total Costs</b>	<b>4,698</b>	<b>1,973</b>	<b>9,432</b>	<b>545</b>	<b>75</b>	<b>16,724</b>
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Estimate Tolerance	
Low (- 5% Substn and OH, -10 % UG)	15,315
High (+ 5% Substn and OH, +15 % UG)	18,707

## Notes

- 1) Land and land rights are not included for lines or transition stations.
- 2) Contaminated soil remediation costs not included.
- 3) Overhead line contingencies 5 % material, 15 % Labor, 10% other.
- 4) UG line and substation contingencies as stated above.
- 5) AFUDC costs not included.
- 6) Costs for razing existing buildings are not included.
- 7) All costs are in thousands of 2004 \$.