



CONTRACT PURCHASE AGREEMENT

BETWEEN

**THE BROOKLYN UNION GAS COMPANY-KEDNY
BROOKLYN, NEW YORK**

AND

**NETWORK INFRASTRUCTURE, INC.
HEMPSTEAD, NEW YORK**

FOR

NORTH QUEENS 20" STEEL PIPELINE PROJECT

SAP CONTRACT ID# 4400004828¹

NOVEMBER 26, 2014

COPY NO. 1

CONTRACT PURCHASE AGREEMENT

This Contract Purchase Agreement, made and entered into on the date when signed by the party signing last in time, by and between **The Brooklyn Union Gas Company** (Owner), a New York corporation, with offices at One Metro Tech Center, Brooklyn, New York, 11201; and **Network infrastructure, Inc.** (Contractor) having its office and principal place of business at 94 Taft Avenue, Hempstead, New York, 11550, for the Work (“Work”) identified as follows:

- North Queens 20” Steel Pipeline Project

ARTICLE 1 - SCOPE OF WORK (“Work”)

All of the work to be performed in accordance with National Grid Project Specification G-14-02 dated May 2014 (**Schedule B**). Specification, G-14-02, and other general specifications, Construction Standards and Drawings to which reference is made, together with the Agreement, are intended to cover all supervision, labor, materials and equipment beyond what is provided, necessary for the installation of approximately 36,000 feet of 20 inch steel .500” wall 350 psig gas transmission main, 2,000 feet of 20 inch steel .375” wall 15 psig gas distribution main, and a 350 psig to 15 psig regulator station with a gas heater in Queens New York. The Contractor is responsible for all tie-ins, valves, appurtenances, fittings, piping, pressure testing, pavement removal, temporary and permanent pavement, cleaning and grading, restoration of top soil, seed, sod, and the removal and replacement of trees, shrubbery, fencing or any other obstruction as required within this Project Specification. In any case where this Specification may contradict referenced Specifications or Standards, this Specification shall govern including all Project Drawings, Project Documents, Construction Standards, Construction Procedures, Safety Standards and all other documents referenced therein). Any changes to the Scope of Work which result in a change to the contract price must be authorized in writing prior to performing the work. Contractor must execute Change Control Procedure for Construction Projects GEN03003 (**Schedule G**).

ARTICLE 2 - CONTRACT DOCUMENTS

The following documents, including all attached schedules, appendices, exhibits or other attachments thereto, are incorporated by reference as if fully set forth herein, and are hereinafter referred to collectively and individually as the "Contract Documents" or the "Agreement". The Agreement is comprised of the following in descending order of precedence:

- Agreement
- Schedule A: Terms and Conditions 00700 Rev. 11 March 2014 ekb update dated 5-13-14 signed by Pat Clarke on 7-31-14 and Certificate of Insurance
- Schedule B: North Queens Project Specification G-14-02, dated May 2014
- Schedule C: National Grid Safety Procedure - "Contractor Safety Requirements", Document No. N-1402, Rev. 7 dated (09/11/2013) & National Grid General Safety Requirements, SHE01001 Rev.1 (3-15-13)
- Schedule D: Contractor Environmental Requirements
- Schedule E: Contractor Employee Background Check Compliance
- Schedule F: CMD -101-Anti Drug Program
- Schedule G: Change Control Procedure (GEN03003)
- Schedule H: NII Health and Safety Plan (HASP)

ARTICLE 3 - AGREEMENT DURATION

The Agreement shall commence on or about December 15, 2014 and proceed to on or about January 1, 2016. The Owner reserves the right, at its sole option, to cancel this contract at any time and for any reason.

ARTICLE 4 – SCHEDULE

Any Work performed under this Agreement shall be completed as noted below:

The Contractor will adhere to the revised project schedule as follows:

Ready for Tie-Ins NLT 10-26-15

Gas In Complete NLT 11-16-15

Final Restoration NLT 12-31-15

Successfully complete all work and reach Project Completion no later than January 1, 2016. The Owner reserves the right, at its sole option, to cancel this contract at any time and for any reason.

ARTICLE 5 - CONTRACT PRICE

This Purchase Order is issued for a Fixed Firm Lump Sum Price of \$ [REDACTED] (**Attachment A**) as set forth in Network Infrastructure, Inc. revised proposal dated September 8, 2014. The Contract Price shall be the total price to be paid by the Owner to the Contractor in accordance with the prices set forth in the proposal, unless otherwise agreed to in writing by the Owner and the Contractor. Contractor will be responsible for all labor productivity required to achieve their quoted price.

The contract also includes Unit Price rates. The Not-To-Exceed (NTE) value of this contract including the Lump Sum portion and the Unit Price estimate equals NTE \$ [REDACTED]. The NTE amount is an estimate only and does not constitute a commitment to pay the Contractor that amount. The Contract Price shall be all inclusive for the Work required by this Agreement in accordance with all the Contract Documents including, but not limited to, the Terms and Conditions.

Taxes: The work scope associated with this project is considered Capital Improvement and as a result is not taxable.

ARTICLE 6 – PAYMENTS

1. For all sums payable to Contractor, as described in Article 5, National Grid will pay Contractor within thirty (30) days from receipt of an acceptable invoice. Any allowable time for early payment discount will begin the day the invoice is received at National Grid. The invoice date will not be used to calculate the allotted time available for National Grid to exercise the specified payment discount. Unacceptable invoices may, at National Grid's option, be adjusted and paid as adjusted, or returned to Contractor for correction and re-submittal.
2. All invoices shall be submitted and payments made in accordance with and subject to the terms and conditions set forth in National Grid and Affiliated Companies Terms and Conditions for Construction Purchase Orders Document No. 00700 Rev. 11 dated March 2014 ekb update.
3. Invoicing will be authorized for payment utilizing National Grid's SAP system. The Contractor shall utilize this system for processing invoices.

ARTICLE 7 – SAFETY

1. The Contractor assumes complete responsibility for the safe performance of the work and shall comply fully with:
 - a. National Grid Safety Procedure N-1402 dated 9/11/13 (Schedule B)
 - b. National Grid General Safety Requirements (SHE01001 Rev. 1)
 - c. National Grid and Affiliated Companies Terms and Conditions for Construction Purchase Orders Document No. 00700 Rev. 11 dated March 2014 ekb update.

ARTICLE 8 – TAXES

The Contractor is responsible for all applicable taxes associated with the workscope. Taxes are not applicable to labor. No sums in addition to the original contract amount will be paid by the Owner for taxes, fees, permits, or other levies, which may be imposed on the work by any authority having jurisdiction over the work of services to be provided/performed by the Contractor.

ARTICLE 9 – LIMITATION

The Contractor shall not revise the scope of work or deliverable products contained therein or incur costs to the purchaser's account in excess of the total Agreement without the Owner's prior written approval; such approval to be incorporated by formal amendment to this Agreement.

ARTICLE 10 – UNAUTHORIZED DISCLOSURE

The Owner considers any information provided to you in the course of business to be privileged and confidential between the Contractor and the Owner. This includes, but is not limited to, written data of any kind, business information, request for proposals, specifications, engineering data and any and all technologies and data either obtained or observed while supplying the commodity/service required by the Agreement. Unauthorized disclosure of information to third parties by you may lead to cancellation of the Agreement, loss of future business opportunities and/or the effects of any other remedies that may be available to the Owner.

ARTICLE 11 – ACKNOWLEDGEMENT

The Contractor agrees that it will not be entitled to payment until this Agreement is signed and returned to the National Grid Procurement Department. In the absence of The Contractor's written acceptance, performance of any part of the work provided for by this Agreement shall constitute acceptance of all provisions of this Agreement.

ARTICLE 12 – MISCELLANEOUS

This Agreement cannot be changed, altered, modified, amended, waived or discharged orally. Any such changes, alterations, modifications, amendments, waivers, or discharges can only be made effective when embodied in a written Agreement Change signed by an authorized representative or officer of the Owner and the Contractor.

The Agreement, as the same may be amended from time to time in writing by an Agreement Change, sets forth the full and complete understanding of the parties regarding the services to be performed by the Contractor for the Owner and supersedes any and all prior and contemporaneous agreements, commitments, understandings, and discussions, whether written or oral, which may have existed relating to the services to be performed by the Contractor. This Agreement shall not merge with or be terminated or superseded by any future agreement between the Parties that does not specifically so provide and without an Agreement Change to that effect. THE PARTIES HAVE READ AND UNDERSTAND THIS AGREEMENT AND AGREE TO BE BOUND BY ITS TERMS.

ARTICLE 13 - ENTIRE AGREEMENT

This Agreement, including all Contract Documents, constitutes the entire Agreement between the Owner and the Contractor, with respect to the Work specified in the relevant Work Authorization Form, and all previous representations relative thereto, either written or oral are hereby annulled and superseded. No modification of any of the provisions of this Agreement shall be binding unless in writing and signed by a duly authorized representative of each party hereto.

Contractor:

Network Infrastructure, Inc.

By: _____

Name: _____

Title: _____

Date: _____

Owner:

The Brooklyn Union Gas Company

By: William J. Rumble

Name: William Rumble

Title: Lead Buyer

Date: November 26, 2014

By: Ron Micho

Name: Ron Micho

Title: Category Manager Gas

Date: November 26, 2014

By: John J. Kavanaugh

Name: John J. Kavanaugh

Title: Director Procurement

Date: November 26, 2014

By: Randall Rotermund

Name: Randall Rotermund

Title: Vice President, US Procurement

Date: November 26, 2014

By: Raymond Schlaff

Name: Raymond Schlaff

Title: Chief Procurement Officer,
Global Procurement

Date: November 26, 2014

SCHEDULE A

NATIONAL GRID AND AFFILIATED COMPANIES

TERMS AND CONDITIONS

FOR

CONSTRUCTION PURCHASE ORDERS

DOCUMENT NO. 00700 REV.11 DATED MARCH 2014 EKB UPDATE



Terms and Conditions
for Construction Rev. :



Network Acceptance
of Conditions-Signed[

&

NII CERTIFICATE OF INSURANCE



Network COI for
national Grid_1[1].pdf

ACCEPTANCE OF CONDITIONS

The Contractor hereby agrees that any Work (as defined in the Agreement/Purchase Order) performed for Company in compliance with any order, written or verbal, shall be governed by the terms and conditions cited in the Agreement/Purchase Order whether or not specific reference is made to the below noted Terms and Conditions by the Agreement/Purchase Order unless the Agreement/Purchase Order specifically contains terms and conditions other than those contained in said Terms and Conditions; then those terms will apply to the extent that they are different.

Receipt of the below noted Terms and Conditions is hereby acknowledged on the date executed below, and the undersigned agrees to be bound to same and the signatory represents complete authority to sign on behalf of the Contractor.

Network Infrastructure, Inc.
Contractor

By [Signature]

PRESIDENT
Title

Date July 31, 2014

94 TAFT AVE
Street Address

HEMPSTEAD, NY 11550
City, State, Zip Code

Reference Terms and Conditions Document No.
00700

Terms and Conditions for
Construction, Rev.11 March 2014 ekb
update 5/13/14.

SCHEDULE B

NORTH QUEENS

PROJECT SPECIFICATION NO. G-14-02

MAY 2014



G-14-02 North
Queens Project Final.c



G-14-02 North
Queens Spec Clarifica

NORTH QUEENS BID CLARIFICATIONS



North Queens Project
bid clarifications 9-2-1

SCHEDULE C

**NATIONAL GRID SAFETY PROCEDURE
“CONTRACTOR SAFETY REQUIREMENTS”
DOCUMENT NO. N-1402, REV. 7
DATED (09/11/2013)**



**N-1402 Contractor
Safety Requirements.**

**NATIONAL GRID GENERAL SAFETY REQUIREMENTS
DOCUMENT NO. SHE01001 REV. 1
DATED (03/15/2013)**



**GENERAL Safety
Requirements SHE010**

¹SHE01001 Rev.1 dated 03-15-13 cancels and supersedes General Safety requirements SAFE5050-LI-NYC and 090001-PL

SCHEDULE D

CONTRACTOR ENVIRONMENTAL REQUIREMENTS

- National Grid Environmental Procedure No. 17, Rev. 5 dated 1/13/11
- National Grid Contractor Environmental Procedure No.6 - Contracted Services dated 10/01/13
- National Grid Contractor Environmental Requirements - Contracted Services – Environmental Procedure No. 6 - Appendix B - Rev. No. 5 dated 05/28/10
- National Grid Contractor Environmental Requirements - Contracted Services – Environmental Procedure No. 6 - Appendix C - Rev. No. 5 dated 05/28/10


ENVIRONMENTAL
EP17 Construction Pr


EP6 Contracted
Services(10-1-13).pd


ENVIRONMENTAL
EP6 AppB.pdf


ENVIRONMENTAL
EP6 AppC.pdf

SCHEDULE E

CONTRACTOR EMPLOYEE BACKGROUND CHECKS



NII B-2 Background
Check Compliance.pdf

SCHEDULE F

CMD-101 ANTI DRUG PROGRAM



**CMD-101 Anti-Drug
and Alcohol Complan**



**NII Anti-Drug Alcohol
Misuse Prevention Plai**

SCHEDULE G



GEN03003 (Change
Control Form replace

SCHEDULE H

NII HEALTH AND SAFETY PLAN (HASP)

(To be provided to Tom Buckleman prior to start of project)

ATTACHMENT A

NETWORK INFRASTRUCTURE, INC.

PRICING



Copy of Network
North Queens Bid Forr

Company Name: Network Infrastructure, Inc.

Input in Yellow Cells

**NORTH QUEENS PROJECT
LUMP SUM BID PRICING APPENDIX B-2**

§	Description	QTY	UOM	Unit Price	Extended Price
I.	FIRM LUMP SUM PRICING "I-A" - 38,000 FEET OF 20" STEEL GAS MAIN AND GATE STATION				
I-A.1	Firm Lump Sum Price - Total Project for all 20" installation, tie-ins and full restoration as described in section I. (Transmission & Distribution)	1	Lump Sum		
I-A.1a	Firm Lump Sum Price - Total project for installation of a new 350# to 15# Gate Station	1	Lump Sum		
I-A.1b	Firm Lump Sum Price - Total Project for installation, tie-ins and full restoration of Gate Station as described in section I.	1	Lump Sum		
	GRAND TOTAL				
I-A.2	Pricing Breakdown (NOTE: Total Must Equal Firm Lump Sum Price Above)				
	<u>Mobilization & Pipe Stringing:</u>				
I-A.2.a.	Contractor Mobilization	1	Lump Sum		
	<u>Gas Main Installation - Trenching Operations Only (No Welding)</u>				
I-A.2.b.	Install 20 Inch Steel Gas Main 350# - Open Cut	1	Lump Sum		
I-A.2.c	Install 20 Inch Steel Gas Main 15# - Open Cut	1	Lump Sum		
	<u>Welding/ Mechanical Operations:</u>				
I-A.2.d.	Welding of 20" Steel Gas Main 350#	1	Lump Sum		
I-A.2.e.	Welding of 20" Steel Gas Main 15#	1	Lump Sum		
I-A.2.f.	Welding/Mechanical Gate Station	1	Lump Sum		
I-A.2.g.	Hydrostatic Test 20" 350# Steel	1	Lump Sum		
I-A.2.h.	Hydrostatic Test Gate Station	1	Lump Sum		
I-A.2.i.	Air Test 20" 15# Steel	1	Lump Sum		
	<u>Cathodic Protection Work</u>				
I-A.2.j.	Cathodic Protection Work for 20" Steel Gas main 350#	1	Lump Sum		
I-A.2.k.	Cathodic Protection Work for 20" Steel Gas main 15#	1	Lump Sum		
I-A.2.l.	Cathodic Protection Work for Gate Station	1	Lump Sum		
	<u>Valves</u>				
I-A.2.n.	Prefab of all 20" Ball Valves / Perform Valve Hydrostatic Test	1	Lump Sum		
I-A.2.o.	Cut Valves into 20" Gas Mains After Hydrostatic Test	1	Lump Sum		
	<u>Restoration Work:</u>				
I-A.2.p.	Paving & Restoration	1	Lump Sum		
	GRAND TOTAL				
	Pricing Breakdown = Lump Sum? (Y/N)				
	<u>OPTIONAL PRICES:</u>				
I-B.	Option Price "I-B" - Deleted	1	Lump Sum		
I-C.	Option price "I-C" - Night installation Cost Differential - this price is being requested for the cost differential only for the installation of all 20" steel gas main between the hours of 8:00 PM and 6:00 AM, in lieu of daytime hours. This option will only include the cost difference from working days to that of working nights. This will include all work that would require shutting any lanes while performing the gas main.	1	Percent		
I-D.	Option price "I-D" - Concrete Jersey Barriers - this optional price is being requested for the costs associated with installing, maintaining and the removal of concrete jersey barriers along the entire length of the project. All openings and end sections must include DOT approved tapered barriers, no blunt ends will be allowed.	1	If		
I-E.	Option Price "I-E" - Deleted.	1	Per Day		
I-F.	Option Price "I-F" - CREDIT FOR WELDING OPERATIONS. This credit is being requested for those contractors who choose to utilize National Grid Welders to perform all welding operations on this project. Leaving this item blank or inputting a dollar value of zero indicates that you do not choose to utilize these welders.	1	Lump Sum		

VENDOR

Network Infrastructure, Inc.

AUTHORIZED SIGNATURE

Patrick Clarke

DATE

09/08/14

State Earliest Possible Start Date:

September 22, 2014

State Earliest Possible Completion Date:

October 31, 2015

PMT TERMS: NET 30 ___0___% DISC 15 DAYS

North Queens Multipliers		UOM	Quantity	Unit Price	Extended Price
SECTION 1.0 CLEAN FILL					
	These units apply to trench excavations when the National Grid representative determines that acceptable backfill material needs to be provided.				
	Furnish and place acceptable clean sand backfill from non-site excavated material. Includes removal and disposal of associated excess material. This unit applies to trench work only.				
1.1.1	Clean Fill (UP TO 5000 FEET)	/Cubic Yard	2500		
1.1.2	Clean Fill (Greater than 5000 FEET)	/Cubic Yard	6000		
1.2	Furnish & place acceptable washed sand backfill obtained from non-site excavated material. Includes removal and disposal of associated unsuitable fill.				
1.2.1	Furnish & place acceptable washed sand backfill obtained from non-site excavated material. Includes removal and disposal of associated unsuitable fill. UP TO 5000 CUBIC YARDS.	/ cubic yard	2500		
1.2.2	Furnish & place acceptable washed sand backfill obtained from non-site excavated material. Includes removal and disposal of associated unsuitable fill. Greater Than 5000 CUBIC YARDS.	/ cubic yard	6000		
1.3.0	<u>Handling of Contaminated Soil per National Grid Specifications:</u>				
1.3.1	Stockpile/load contaminated soil into containers supplied by National Grid from areas other than those identified in the project specification.	/ cubic yard	150		
SECTION 2.0 TEMPORARY PAVING					
	These units apply to the installation of temporary paving above the scope of work identified in the lump sum bid. All inclusive price to furnish and install hot and/or cold patch.				
2.1	2 in. thickness (hot patch)	/ square yard	1500		
2.2	2 in. thickness (cold patch)	/ square yard	1500		
2.3	4 in. thickness (hot patch)	/ square yard	1500		
2.4	4 in. thickness (cold patch)	/ square yard	1500		
SECTION 3.0 WELDING & DIRECT BURIED PIPE INSTALLATION					
	These units applicable to complete steel welds for the pipe diameters indicated below. These units to be used for both the addition and deletion to the original work scope.				
3.1.0	Butt Weld Steel Pipe:				
3.1.1	20 In. dia. pipe Transmission pipe 350#	/ each	36		
3.1.2	20 In. dia. pipe Distribution pipe 15#	/ each	10		
3.2.0	Butt Weld Steel Fittings or Valves:				
3.2.1	20 In. dia. pipe Transmission pipe 350#	/ each	70		
3.2.2	20 In. dia. pipe Distribution pipe 15#	/ each	10		
3.3.0	Valve Installation - Contractor to furnish all labor, consumable material and equipment required to install steel valves. Unit price includes all welds, excavation, shoring and corrosion control required to complete the installation.				
3.3.1	Valve Installation - 20 In. dia. pipe	/ valve	2		
3.4.0	Butt Weld Steel Tees				
3.4.1	Butt Weld Steel Tees - 20" X 20" X 20" 350#	/ each	2		
3.4.2	Butt Weld Steel Tees - 20" X 20" X 20" 15#	/ each	1		
3.5.0	Western Purge				
3.5.1	Complete western purge and install to main per National Grid Standard PURG-6010	/ each	2		
3.6.0	Additional 20" Direct Buried Pipe All Inclusive				
3.6.1	Increase or (decrease) Direct Buried Pipe	/ per foot	250		
SECTION 4.0 OBSTRUCTIONS					
	Unit prices shown below are for increased work scope connected with unknown obstructions not shown on prints or that cannot be field identified as a potential interference.				
	These unit prices cover excavating, supporting and providing clearance and installation at the obstruction location. This unit also covers vertical excavations to maintain a minimum of 12" clearance from obstruction.				
4.1	Separate obstruction up to 18 inch diameter or width	/ each	50		
4.2	Separate obstruction over 18 inch up to and including 36 inch diameter or width.	/ each	50		
4.3	Separate obstruction over 36 inch diameter or width and up to and including 60 inch diameter or width.	/ each	50		
	Note: Prices shown above are for additions and deletions. If a relocation of the pipe route eliminates going under a "BID" or a designed profile obstruction, National Grid shall receive a credit in the appropriate amount stated above.				
SECTION 5.0 PREP AND CUT DAMAGED STEEL PIPE & FITTINGS					
	All inclusive unit price to cut and prep the end of damaged steel gas pipe and fittings that has been identified by National Grid upon delivery				
5.0.1	5.2.1 Cut & Prep the end of damaged steel gas pipe - 20" Steel Pipe 350#	/ each	70		
5.0.2	5.2.2 Cut & Prep the end of damaged steel gas pipe - 20" Steel Pipe 15#	/ each	10		
SECTION 6.0 ADDITIONAL TEST HOLES					
	It is understood that this item will cover only the additional test holes NOT covered under the Lump Sum Bid. The lump sum price covers test holes for all mains, ducts, services, pipes, structures, etc. that are shown on the drawings or can be deduced.				
6.1.0	Size of additional test holes is approx. The unit price includes pavement removal, hot/cold patch, sheeting as per OSHA requirements and restoration.				
6.1.1	Additional Test Holes up to 3 cubic yards	/ each	30		\$
6.2.1	Additional Test Holes 3 cubic yards to 10 cubic yards	/ each	30		\$
6.3.0	Unit price for Vacuum Excavated Test Hole				

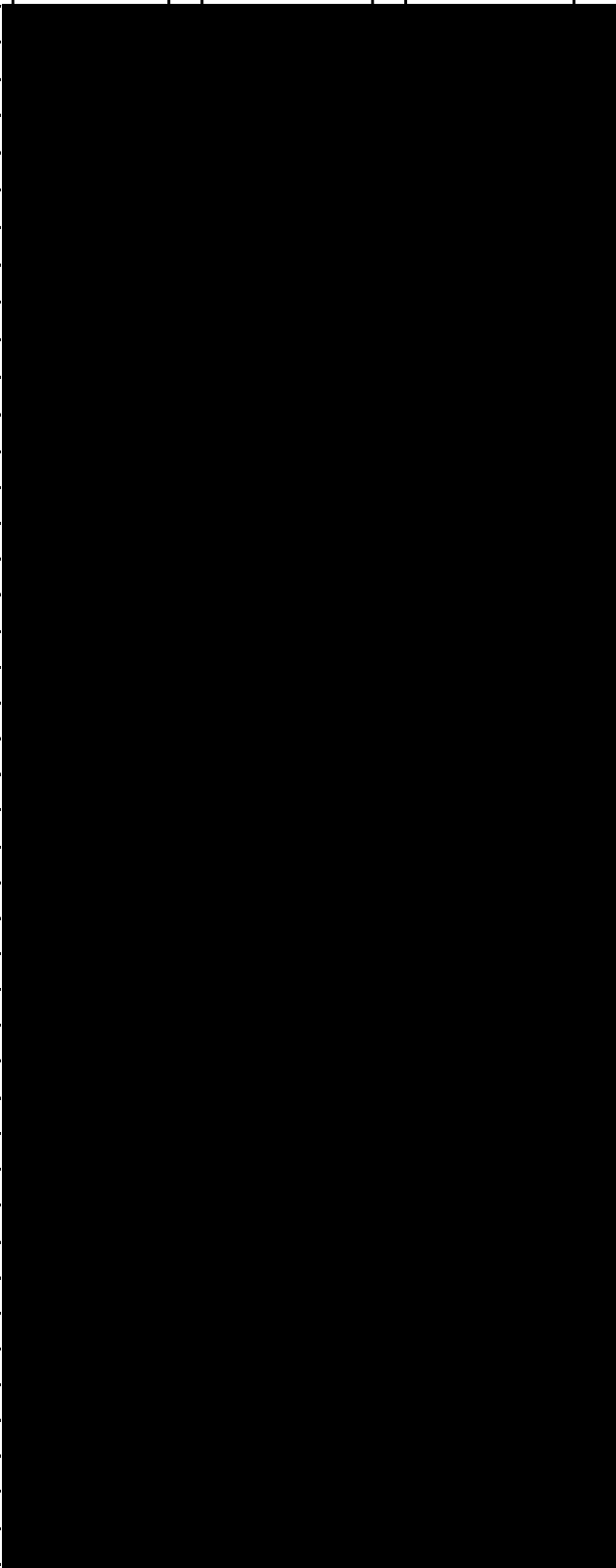
	North Queens Multipliers	UOM	Quantity	Unit Price	Extended Price
6.3.1	Vacuum Excavated test hole	/each	30		
SECTION 7.0 MISCELLANEOUS PITS					
	TIE-IN PITS - An all inclusive unit price to excavate, sheet and steel plate an 20 ft X 12 ft tight sheeted tie-in pit, to a maximum of 10 ft in depth. This unit price covers pits not included on drawings, specifications or bid documents, and must include backfilling and pulling sheeting. This unit price covers dewatering by means of mud suckers, maximum of 3 pumps.				
7.1	Installation of Tie-In Pits Paved Roadway	/pit	5		
	WELD PITS - An all inclusive unit price to excavate, sheet and steel plate an 20ft x 8 ft tight sheeted weld pit, to a maximum of 10 ft in depth, within the paved area of a NYC roadway. This unit price covers pits not included on drawings, specifications or bid documents, and must include backfilling and pulling sheeting. This unit price covers dewatering by means of mud suckers, maximum of 3 pumps				
7.2	Installation of Weld Pits in Paved Roadway	/pit	10		
	Install miscellaneous timber / steel sheeting (for out of scope tie-in pits, jacking pits, misc. pits) and associated work. Includes furnishing material, labor, equipment, transportation, and removal of sheeting.				
7.3.1	Install Miscellaneous Timber/Steel Sheeting - to a maximum depth of 10 ft	/square foot	500		
SECTION 8.0 ROAD PLATES					
	Total steel plate rental rate for a period exceeding 60 days use at the tie-in pits or misc. pits installed.				
8.1	Steel plate rental rate - Daily Rate	/day/pit	200		
8.2	Steel plate rental rate - Weekly Rate	/week/pit	200		
8.3	Steel plate rental rate - Monthly Rate	/month/pit	200		
SECTION 9.0 REMOVALS					
	The unit prices below cover out of scope requirements for the removal of paving. It includes markout, sawcut or vermeer cut, removal and disposal of paving.				
9.1	Unit price for Pavement Removal				
9.1.1	Removals - Concrete Sidewalk	/square yard	150		
9.1.2	Removals - Concrete road paving	/square yard	150		
9.1.3	Removals - Blacktop paving	/square yard	150		
9.2	Unit price for out of scope requirements for the removal and disposal of debris caused by others, such as scrap metal, construction and residential debris.				
9.2.1	Removals - Debris	/cubic yard	150		
SECTION 10.0 TUNNELING					
	This unit price is for the hand tunneling under driveway aprons, tree roots, structures, etc. for out of scope work. Includes the installation of gas				
10.1.0	Hand Tunneling				
10.1.1	Tunnel length up to 15 ft.	/linear foot	100		
10.1.2	Tunnel length over 15 Ft. to 30 Ft.	/linear foot	100		
SECTION 11.0 PROTECTION FOR REDUCED COVER					
	Contractor to furnish and install 5/8 inch thick steel plate with cathodic coating as per National Grid specifications as protection over the gas main installed at reduced cover when directed by National Grid.				
11.1.0	Steel Plate Installation				
11.1.1	5/8" Steel Plate Installed	/squarefoot	500		
SECTION 12.0 OFFSET INSTALLATION EXPENSE					
	Covers incremental costs associated with all inefficiencies and resultant delays when out of scope offsets are installed. Does not include fusions / welds which are covered under Unit 3. The application of this unit is limited to unplanned offsets only, necessitated by obstructions during actual excavation for main installation, where no prior markout, drawing, test hole or other prior information could have been available.				
12.1.0	All inclusive unit price covering installation from layout to backfill for vertical offset.				
12.1.1	Vertical Offset Installation - price per 20" Elbow Transmission Pipe 350#	20" steel elbows	25		
12.1.2	Vertical Offset Installation - price per 20" Elbow Distribution Pipe 15#	20" steel elbows	5		
12.1.0	All inclusive unit price covering installation from layout to backfill for horizontal offset.				
12.2.1	Horizontal Offset Installation - price per 20" Elbow Transmission pipe 350#	20" steel elbows	25		
12.2.2	Horizontal Offset Installation - price per 20" Elbow Distribution pipe 15#	20" steel elbows	5		
SECTION 13.0 PERMANENT PAVING UNIT PRICES					
	Unit prices shown below are for increased work scope for permanent paving and restoration items.				
13.1.0	Permanent Paving				
13.1.1	Permanent Paving - 1-1/2" Blacktop	/square yard	200		
13.1.2	Permanent Paving - 2" Blacktop	/square yard	200		
13.1.3	Permanent Paving - 4" Blacktop	/square yard	200		
13.1.4	Permanent Paving - 4" NYS Type 3 Dense Binder Base and 2" 6F Top Mix	/square yard	0		
13.1.5	Permanent Paving - 6" NYS Type 3 Dense Binder Base and 2" 6F Top Mix	/square yard	0		
13.1.6	Permanent Paving - 10" NYS Type - Dense Binder Base and 2" 6F Mix Top	/square yard	200		
13.1.7	Permanent Paving - 6" RCA Sub Base Mix - NYS Quality	/square yard	200		
13.1.8	Permanent Paving - 6" RCA Sub Base Mix - County/Town Mix	/square yard			
13.1.9	Permanent Paving - 4" Concrete	/square yard	110		
13.1.10	Permanent Paving - 6" Concrete	/square yard	200		
13.1.11	Permanent Paving - 9" Concrete	/square yard	200		
13.1.12	Permanent Paving - 6" x 18" curb	/linear foot	100		

	North Queens Multipliers	UOM	Quantity	Unit Price	Extended Price
13.1.13	Permanent Paving - 6" x 24" curb	/ linear foot	100		
13.1.14	Permanent Paving - Type III Concrete with Calcium Chloride (18502.6028)	/ cubic yard	0		
13.2.1	Soil compaction testing services from NY State / County approved consultant to verify municipality requirements.	/ day	5		
13.3.1	Final pavement restoration	/ square yard	200		
13.3.2	Thermoplastic Line Striping	/ linear foot	500		
13.3.3	Mill asphalt roadway up to 2"	/ square foot	1000		
	3				
	Unit prices shown below are for increased work scope for topsoil and seeding.				
14.1.0	Prices include all labor and furnishing of material				
14.1.1	Sod	/ square foot	100		
14.1.2	Seed	/ square foot	100		
14.1.3	Hydro Seed	/ square foot	100		
14.1.4	Topsoil Only - 2" Lift	/ square foot	100		
14.1.5	Topsoil Only - 4" Lift	/ square foot	100		
	SECTION 15.0 DEWATERING				
	In order to control normal dewatering conditions, the contractor is liable for the use of two pumps per day for gas main installations. This unit price is to relieve the burden for dewatering above the use of these 3 pumps.				
15.1.0	Mudsuckers and Pumps				
15.1.1	Cost of Additional Pump above the 3 pumps stated above.	/ daily rate	60		
	SECTION 16.0 CORROSION CONTROL				
	Unit price for out of scope work for corrosion and cathodic protection work.				
16.1.0	Installing Anodes				
16.1.1	Install 17 lb. anode with test station up to 6 anodes	/ anode	20		
16.1.2	Install 17 lb. anode w/o test station up to 6 anodes	/ anode	20		
	SECTION 19.0 DEC / ENVIRONMENTAL REQUIREMENTS				
	Unit Prices for the installation of hay bales and silt fencing due to environmental factors.				
19.1	Install silt fence and hay bale	/ day	10		
19.2	Install hay bale only	/ ft	250		
19.3	Install silt fence only	/ ft	250		
	SECTION 20.0 TREE PROTECTION				
	Unit Prices for the installation of tree protection.				
20.1	Install Orange Construction Fencing around trees, at least four layers thick.	/ each	50		
20.2	Install wood protection full diameter of tree trunk.	/ each	50		
20.3	Install Orange Construction Fencing surrounding tree and critical root structure (generally the radius of tree branches). Include all staking for a four foot high fence.	/ each	50		
	Section 21.0 Install Catch Basins and Chutes				
	Installation of catch basins and chutes as per NYCDEP requirements to include all meetings and permitting.				
21.1	Install type 2 catch basin	/ each	6		
21.2	Install type 3 catch basin	/each	6		
21.3	Install DIP chute from manhole to catch basin	/linear foot	250		
	SECTION 22.0 CLEARING AND GRUBBING				
	Unit prices below cover out of scope requirements, as well as credits for deletions, for the clearing and removal of various size trees, bushes and debris. The contractor is to provide all labor and equipment necessary for the complete removal and disposal of all removed debris.				
22.1	Clearing and grubbing of trees, stumps and bushes - up to 200 sq. yds.	/ square yard	50		
22.2	Clearing and grubbing of trees, stumps and bushes - greater than 200 sq. yds and less than 500 sq. yds.	/ square yard	225		
	SECTION 23.0 Install Water Main				
	Installation of water mains as per NYCDEP requirements to include all meetings and permitting. Including coordinating shutdowns				
23.1	Install water main up to 8"	/ linear foot	200		
23.2	Install water main up to 12"	/ linear foot	200		
23.3	Install water hydrant	/ each	2		
	SECTION 24.0 DOLOMITE				
	Installation of 3/4" stone dolomite stone bedding.				
24.1	Dolomite - minimum of 4" Thick with commercial weed barrier blanket	/ square yard	500		
24.2	Dolomite - minimum of 4" Thick without commercial weed barrier blanket	/ square yard	500		
24.3	Dolomite - minimum of 2" Thick without commercial weed barrier blanket	/ square yard	500		
	SECTION 25.0 LEAN CONCRETE BEDDING				
	Installation of a lean concrete bedding over gas facilities as directed by National Grid personnel. Maximum rating of concrete not to exceed 500 psi.				
25.1	Lean Concrete Bedding	/ cubic yard	100		
	SECTION 26.0 Mechanize Street Sweeper				
	Mechanize Street Sweeper to be utilized to clean road surface of all trenching material above the two days a week as part of the lump sum.				
26.1	Mechanic Street Sweeper	/ day	100		
	SECTION 27.0 Additional piles including all welding				
	Includes all material, welding and installation of 4.5 inch screw piles as directed by National Grid Gas Engineering				
27.1	Additional Piles to 35 feet	/linear foot	105		

NORTH QUEENS PROJEC

<u>Labor Item</u>	<u>UOM</u>	<u>AMOUNT</u>
Foreman	HOUR	
Backhoe Operator	HOUR	
Pipe Truck Operator	HOUR	
Crane Operator	HOUR	
Saw Operator	HOUR	
Welder	HOUR	
Welder Helper	HOUR	
Laborer	HOUR	
Dump Truck Driver	HOUR	
Superintendant	HOUR	
Crew Truck	HOUR	
Track Hoe CAT 335 or equiv.	HOUR	
Rubber Tire Backhoe 580 or equiv.	HOUR	
Side Boom CAT 561 or equiv.	HOUR	
Welding Rig and Equipment	HOUR	
Bobcat	HOUR	
Low-Boy Tri-axle	HOUR	
Track Hoe with Chisel CAT 335 or equiv.	HOUR	
Front End Loader CAT IT28 or equiv.	HOUR	
Dump Truck 12 to 18 C.Y.	HOUR	
Dump Truck 18 to 22 C.Y.	HOUR	
Dump Truck 6 C.Y. minimum	HOUR	
Holiday Detector	HOUR	
3" Centrifugal Pump	HOUR	
6" Centrifugal Pump	HOUR	
Arrow/Message Board	HOUR	
Concrete Saw	HOUR	
Flood Lights	HOUR	
Hot Box	HOUR	
Roller	HOUR	
Crane	HOUR	
Fuel Truck	HOUR	
Pipe Truck	HOUR	
Compressor (Tag-a-long)	HOUR	
Traffic Plates up to 6' x 12'	DAY	
Traffic Plates 6' x 16'	DAY	
Traffic Plates 6' x 20'	DAY	
Vacuum Truck	HOUR	

EQUIPMENT CLASSIFICATION		DAILY	WEEKLY	MONTHLY
		\$	\$	\$
AIR COMPRESSORS:				
	185 cfm			
BACKHOES:				
	Case 580 w/4wd			
BEVELING EQUIPMENT:				
	1 1/2" - 4"			
	4" - 8"			
	8" - 12"			
	14" - 20"			
	22" - 26"			
	26" - 30"			
	30" - 36"			
BREAKERS:				
	90# Hand Held			
	Kent 3G (plus Kobelco 035)			
	Kent 8G (plus Case 580)			
	Kent 20G (plus Kobelco 200)			
COMPACTORS:				
	Plate			
	Jumping Jack			
	Sheeps Foot (pull)			
	Vibratory Smooth Drum (walk behind)			
	Vibratory Trench (remote, sheeps foot)			
CONCRETE EQUIPMENT:				
	Concrete Bucket 1/2 - 1 cu. yd.			
	Power Trowel			
	Vibrator			
	Mortar/Grout Mixers			
	Power Screed			
	Concrete Saw (Walk behind 20")			
	Hydraulic Chain Saw (excluding chain)			
	Cutoff saw - gasoline			
	Rotary Hammer Drill			
	Insulating Blankets 6' x 12'			
CRANES:				
	12 ton			
	15 ton			
	18 ton			
	20 ton			
	22 ton			
	40 ton			
DOZER				
	Case 850 or equal:			
EQUIPMENT CLASSIFICATION		DAILY	WEEKLY	MONTHLY
		\$	\$	\$
ELECTRICAL EQUIPMENT:				



	16' Tool Trailer			
	24' Office/Tool Trailer			
	Hydraulic conduit bender			
	Wire Tugger			
	Wire Feeder			
	Core Drill			
	Magnetic Base Drill Press			
	Meggar Meter			
	High Pot Meter			
	Voltage Meter			
FORKLIFTS:				
	Straight Mast Case 584/585/586			
	Telescoping Boom			
	6000#			
	8000#			
GENERATORS:				
	3.5 KW			
	5.5 KW			
	35 KW			
	75 KW			
	250 KW			
HEATERS:				
	Torpedo (Kero or Propane) 100,000 BTU			
	Forced Air Heaters 170,000 BTU			
HYDRAULIC EXCAVATORS:				
	Kobelco 200/907			
	Kobelco 080			
	Kobelco 050			
	Kobelco 035			
MISCELLANEOUS EQUIPMENT:				
	Cutting Torch/Hose			
	(excludes oxygen/Acty.)			
	Automobile (per mile)			
	Skidding Equipment			
	Holiday Detector			
	Hydraulic Torque Wrench			
	Pnuematic Torque Wrench			
OFFICE EQUIPMENT:				
	Computer with printer			
	Copy Machine			
	Fax Machine			
	Radios (hand held/per unit)			
PIPE THREADING MACHINE:				
PUMPS:				
	Ditch (trash) 2"			
	Ditch (trash) 3"			
	Hydrostatic Test			
	Hydrostatic Test Instrum (per instrument)			
EQUIPMENT CLASSIFICATION				
		DAILY	WEEKLY	MONTHLY
		\$	\$	\$

SANDBLAST EQUIPMENT:							
	(excluding air compressor)						
	100# Pot, Hood, Hoses, etc.						
	300# Pot, Hood, Hoses, etc.						
SELF PROPELLED MANLIFTS							
	40'						
	60'						
	80'						
SKIDSTEER LOADER:							
	Case 1845/John Deere 240						
	Case 450CT Rubber Track						
SKIDSTEER ATTACHMENTS:							
	Auger (45" depth 1 bit)						
	Broom						
	Forks						
	Hydraulic hammer (3G)						
SURVEYING EQUIPMENT:							
	Total Station						
	Transit and Tripod						
	Level and Tripod						
	Grade Rod						
TEMPORARY BUILDINGS:							
	(Does not include installation/removal)						
	20 x 50 x 20						
	40 x 50 x 20						
TRACK LOADERS:							
	1155 Loader						
TRAILER:							
	Office						
	Storage Van						
	Tool Trailer (includes misc. small tools)						
	16' Tool Trailer						
TRUCKS:							
	Dump, single axle						
	Pickup						
	Rig w/welding machine (per hour)						
	Tractor & Trailer						
WELDING MACHINES:							
	Electric						
	Gasoline						
	Gas Metal Arc						
	Submerged Arc						