WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
600 Fifth Street, NW, Washington, DC 20001-2651
AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

1. AMENDMENT/MODIFICATION	2. EFFECTIVE DATE
Amendment 001	April 15, 2016

3. ISSUED BY PURCHASING SECTION	4. ADMINISTERED BY (If other than block 3)
Felicia Walker, Fwalker1@wmata.com (202) 962-1893 Department of Procurement	

5. CONTRACTOR
NAME AND ADDRESS

(Street, city,
county, state,
and Zip Code)

6. FORM TYPE
(Check only one)

■ AMENDMENT OF SOLICITATION NO. FQ-16090

DATE April 15, 2016 _____ (See block 7)

☐ MODIFICATION OF CONTRACT/ORDER NO. _____

DATE _____ (See block 9)

7. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

■ The above numbered solicitation is amended as set forth in block 10. The hour and date specified for receipt of Offers ■ is extended, ☐ is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods; (a) By signing and returning ___1___ copy of this amendment; (b) by acknowledging receipt of this amendment on each copy of the offer submitted; or (c) by separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

8. ACCOUNTING AND APPROPRIATION DATA (If required)

9. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____
The Changes set forth in block 10 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 10.

(c) ☐ This Supplemental Agreement is entered into pursuant to authority of _____
It modifies the above numbered contract as set forth in block 10.

10. DESCRIPTION OF AMENDMENT/MODIFICATION

a. This amendment is hereby issued to provide responses to submitted questions.
b. The attached pricing schedule has been revised. This pricing schedule must be submitted with the bid.
c. Changes were made to the Patch Cables category (entire section) and Rail Station Routers category, item #2, Rail Yard/Extranet/Wan Routers, Item #1 and Optics category, Item #1.
d. Except as provided herein, all terms and conditions of FQ-16055 remains unchanged.

11. ■ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 1 COPY TO ISSUING OFFICE.	☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT
12. NAME OF CONTRACTOR/OFFICE BY _____ (Signature of person authorized to sign)	15. WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY BY _*Felicia Walker*_____ (Signature of Contracting Officer)
13. NAME AND TITLE OF SIGNER (Type or print)	14. DATE SIGNED	16. NAME OF CONTRACTING OFFICER (Type or print) Felicia Walker, CPPB	17. DATE SIGNED April 15, 2016

	FQ-16090 Edge Replacement Project Questions and Responses		
	Questions		**Response**
1.	Page 34 – 6. Amendments to IFB – Will WMATA amend the Schedule of Prices for the Base + Option Years to accept alternate products, provided they meet or exceed the capability and performance requirements products listed?		No. Please, Bid on items as listed.
2.	Page 42 – 30. Brand Name or Equal: Non-Applicable a. Will WMATA amend the Schedule of Prices for the Base + Option Years to accept alternate products provided they meet or exceed the capability and performance requirements of products listed?		No. Please, Bid on items as listed.
3.	Pages 11 – 29 Schedule of Prices – Is it WMATA's intent to procure and deploy products for Rail Station Routers & Switches and Rail Yard/Extranet Routers/WAN Routers over the period of a Base + 4 option years?		Yes. This a 5-year contract. The five year period includes the base year and 4, one-year option periods.
4.	Pages 11 – 29 Schedule of Prices – Is it feasible to work with WMATA to develop a schedule that accelerates the deployment so that all stations are equipped with updated a Network Edge in a shorter timeframe?		No. Project scheduling is an internal WMATA responsibility.
5.	Pages 11-29 Schedule of Prices – Is the training listed for the three categories of students to occur in the base year only or in every option year? Please confirm.		Yes. Training will be applicable for the entire durarion of the contract that includes the option periods.
6.	Pages 11-29 Schedule of Prices and Page 56 Availability of Funds for Next Fiscal Year – In addition to submitting Price Schedule as identified for Base + Option Years, will alternate capital or operationally based pricing plans that are financially beneficial to WMATA and meet terms and conditions such as non-appropriation of funding be accepted?		No. Respond only to the Price schedule provided.

7.	Page 57 Contracting Officer's Technical Representative – Has WMATA assigned a COTR for this Contract?		A COTR will be assigned after the award of the Solicitation.
8.	Page 119 – Mid-Atlantic Purchasing Team Rider – Will WMATA agree that any submission regarding this IFB is specific to WMATA and selected contractor and is confidential, not to be shared with 3rd parties?		Yes. All Bid responses are confidential and the information is not shared.
9.	Page 8 states that a Copy of Certificate of Insurance is required with submission. **Please confirm that we will be in compliance if we submit our standard COI that lists WMATA in the cert holder box.** We read the insurance section of the Terms and Conditions to mean that the fully executed COI is due upon award. On Page 85, under "Additionally" #1 states that insurance coverage requirements "shall be delivered before the execution of this Contract by WMATA." Please clarify when the Certificate of Insurance is submitted?		The Certificate Of Insurance is due at the time of bid submission. Please see page 84, "Article 11", for Cert holder box information.
10.	Please clarify whether the Pre-Award Evaluation Data form (page 52-53) and information requested therein (including current/similar contract info, current financial statement, bank letters of credit, etc.) is due with our submission. On page 39, item #19 states the following, which implies that this information is to be provided _after_ WMATA has completed initial evaluations and identified the lowest Bidder(s): **19. PRE-AWARD INFORMATION/BIDDER RESPONSIBILITY** a. In order to be eligible for the award, the low Bidder will be required to demonstrate its ability to perform services contained in the solicitation, in a timely manner, to the complete satisfaction of the Authority. Failure on the part of the low bidder to so demonstrate that it maintains the requisite integrity, overall technical capability and financial resources to perform the Contract in a satisfactory and timely manner may result in a rejection of the low Bidder as not responsible. In such event, the second lowest Bidder will be required to		Yes, the Pre-Award Evaluation Data form is due at the time of bid submission. The Pre-Award survey is the Pre-Award evaluation data form.

	demonstrate its responsibility, a process which will continue until a Bidder successfully demonstrates that it is responsible for purposes of this Solicitation. b. To assist in the Authority's evaluation of its responsibility for purposes of award of a Contract hereunder, the apparent lowest responsive Bidder shall furnish the following when requested by the Contracting Officer: (1) A completed and signed Pre-Award Evaluation Data form (copy attached), including the required financial statements; The Disadvantaged or Small Business Enterprise data as set forth in Appendix B. However, on the Notice to Bidders on page 8, it states that Pre-Award Data should be included with submission, and in the bid memo preceding that page under "Required bid documents" the Pre-Award Survey is listed.		
11.	If we need to submit the Pre-Award Data Evaluation form with our submission: On that form, question #12 states: Attach as SCHEDULE FIVE financial statements and letters from banks regarding credit as required by the Pre-Award Information article. The only reference to this is on page 39, item #19 which does not explain what's required to answer this question. Please provide details of what is needed.		Please provide your company's financial statements.
12.	Appendix B , section5 C(3): Please confirm that the requirement for 30% of the total cost of the contract applies to services provided under a contract. This RFP is exclusively for supplies. The only manufacturer, Juniper does not qualify as a DBE, therefore no reseller can fulfill the requirement to either perform 30% of the cost (if reseller is a DBE), or fulfill the 7% subcontracting goal.		All Bidders must comply with 7% subcontracting Goal. Partnering is an acceptable means to meet the goal.

14.	We are further requesting that the following terms be deleted or deemed 'non-applicable', because commercial off the shelf supplies will superseded by the manufacturers terms noted above. Terms applicable to construction are also noted for deletion. · Correction of Deficiencies and Warranty · Indemnification · Patent Indemnity · Rights in Technical Data Unlimited · Notice and Assistance Regarding Patent and Copyright Infringement · Chapter IX, in it's entirety (appears to apply to construction) · Rights in Data and Copyrights – FTA · Cargo Preference · Clean Air · Clean Water · Recycled Products · Energy Conservation · National Intelligent Transportation Systems Architecture and Standards · Chapter XII, in it's entirety (appears to apply to construction)		This Solicitation is Federally Funded. The clauses requested to be removed are mandated by the FTA.
15.	Can a company be awarded part of the project while meeting the DBE requirement if they've submitted their application but it hasn't been fully approved yet? If not and a company is only awarded a hardware portion of the project (Rail Station Router or Rail Station Switches) then how would that company meet the DBE threshold?		All firms presented as DBE firms must be fully certified DBE firms when the Bid response is submitted. If not, the firms submitting the bid (non-DBE firm) must meet the DBE goal requirements.
16.	It's noted on page 32 that WMATA plans to make multiple awards for this project so can a company respond only to the Rail Station Router portion of the RFP without responding to the Rail Station Switches, Training, or Cabling parts?		Yes.
17.	Is it WMATA's intention that the training portion on the schedule of pricing be training directly from the vendor (ie Juniper or Cisco) or will certified training from a responding company be compliant?		Yes. Either approach is acceptable with WMATA's approval.

SOLICITATION, OFFER AND AWARD

CONTINUATION SHEET

SCHEDULE OF PRICES: BASE YEAR

Please Note, all of the listed supply quantities are estimates only.

Category: Patch Cables

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	5	SM APC- LC 1m	Each		
2.	5	SM APC- LC 2m	Each		
3.	5	SM APC- LC 5m	Each		
4.	27	SM FC-LC 1m	Each		
5.	27	SM FC-LC 2m	Each		
6.	10	SM FC-LC 5m	Each		
7.	50	SM Fiber Jumpers SC-LC 1m	Each		
8.	200	SM Fiber Jumpers SC-LC 2m	Each		
9.	20	SM Fiber Jumpers SC-LC 3m	Each		
10.	5	SM Fiber Jumpers SC-LC 4m	Each		
11.	30	SM Fiber Jumpers SC-LC 5m	Each		
12.	5	SM Fiber Jumpers SC-LC 6m	Each		
13.	10	SM Fiber Jumpers SC-LC 7m	Each		
14.	10	SM Fiber Jumpers SC-LC 10m	Each		
15.	100	OM3-Fiber Jumpers SC-LC 1m	Each		
16.	50	OM3-Fiber Jumpers SC-LC 2m	Each		
17.	50	OM3-Fiber Jumpers SC-LC 3m	Each		
18.	5	OM3-Fiber Jumpers SC-LC 4m	Each		
19.	50	OM3-Fiber Jumpers SC-LC 5m	Each		
20.	5	OM3-Fiber Jumpers SC-LC 6m	Each		
21.	10	OM3-Fiber Jumpers SC-LC 7m	Each		
22.	10	OM3-Fiber Jumpers SC-LC 10m	Each		
23.	20	62.5u Fiber Jumpers SC-LC 1m	Each		
24.	75	62.5u Fiber Jumpers SC-LC 2m	Each		
25.	30	62.5u Fiber Jumpers SC-LC 3m	Each		
26.	5	62.5u Fiber Jumpers SC-LC 4m	Each		
27.	10	62.5u Fiber Jumpers SC-LC 5m	Each		
28.	5	62.5u Fiber Jumpers SC-LC 6m	Each		
29.	10	62.5u Fiber Jumpers SC-LC 7m	Each		
30.	10	62.5u Fiber Jumpers SC-LC 10m	Each		
31.	40	BLUE Cat6 1ft	Each		
32.	40	BLUE Cat6 2ft	Each		
33.	40	BLUE Cat6 3ft	Each		
34.	40	BLUE Cat6 5ft	Each		
				Total Price:	

Rev. 07/15

Category: Rail Station Routers

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	68	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
2.	136	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
Product - Wiring Closet Network Equipment					
3.	34	MX240-PREMIUM3-ACH - MX240 Premium Bundle with redundant components, Highline AC Power	Each		
4.	68	CBL-M-PWR-RA-TWLK-US - AC Power Cord, US (NEMA LOCKING), C19, 20A/250V, 2.5m, Right Angle	Each		
5.	34	JUNOS-64 - JUNOS 64-bit Internet Software U.S. Domestic Version (not for export)	Each		
6.	68	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
7.	68	MPC2E-3D-NG-R-B - Next-Gen MPC2E,Port Queue,Full Scale,MX	Each		
8.	68	SCBE2-MX-BB - Enhanced MX Switch Control Board, Base Bundle	Each		
9.	34	S-JFLOW-NPU - NPU based software license for J- Flow accounting license on MS-MIC, MS-DPC, MS-MPC	Each		
10.	34	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
Product - Maintenance					
11.	68	SVC-ND-MPC2NG-R - Juniper Care Next Day Support for MPC2E-3D-NG-R-B	Each		
12.	34	SVC-ND-MX240 - Juniper Care Next Day Support for MX240 Chassis (includes RE/SCB/PWR/JUNOS)	Each		
				Total Price:	

Category: Rail Yard/ Extranet/Wan Routers (MX-104)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
Backbone					
1.	40	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	2	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	4	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	6	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
Wiring Closet Network Equipment					
5.	4	MX104-80G-AC-BNDL - MX104 bundle, 80G,4x10G built-in ports, 4 MIC slots, redundant AC PS,1 RE. SW licenses included :JUNOS, ADV-R2,JFLOW-5G	Each		
6.	8	CBL-PWR-C15M-HITEMP-US - Power Cord, AC, US/Canada, C15M,	Each		

12

		13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M			
7.	6	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
8.	4	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
9.	4	RE-S-MX104-WW-S - Routing engine for MX104 and 4GB memory, Spare	Each		
Maintenance					
10.	4	SVC-ND-MX104-80B - Juniper Care Next Day Support for MX104-80G-AC-BNDL and MX104-80G-DC-BNDL	Each		
				Total Price:	

Category: RAIL STATION SWITCHES (3850-48F-L)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	70	GLC-SX-MMD= - 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	Each		
2.	35	WS-C3850-48F-L - Cisco Catalyst 3850 48 Port Full PoE LAN Base	Each		
3.	35	PWR-C1-1100WAC/2 - 1100W AC Config 1 Secondary Power Supply	Each		
4.	35	C3850-NM-4-1G - Cisco Catalyst 3850 4 x 1GE Network Module	Each		
5.	2	CAB-SPWR-30CM= - Catalyst 3750X and 3850 Stack Power Cable 30 CM Spare	Each		
				Total Price:	

Category: Optics

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	10	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	9	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	124	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	190	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
				Total Price:	

Rev. 07/15

Category: Training

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	15	Fundamental Training-Engineer	Students		
2.	15	Intermediate Training-Engineer	Students		
3.	44	Advanced Training-Sr. Engineer	Students		
				Total Price:	

(See Scope of Work for Training Requirements)

Authorized Signature: _____

Printed Name: _____

Email address: _____

Company Name: _____

Date: _____

Phone: _____

SCHEDULE OF PRICES: 1ST OPTION YEAR

Category: Patch Cables

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	5	SM APC- LC 1m	Each		
2.	5	SM APC- LC 2m	Each		
3.	5	SM APC- LC 5m	Each		
4.	27	SM FC-LC 1m	Each		
5.	27	SM FC-LC 2m	Each		
6.	10	SM FC-LC 5m	Each		
7.	50	SM Fiber Jumpers SC-LC 1m	Each		
8.	200	SM Fiber Jumpers SC-LC 2m	Each		
9.	20	SM Fiber Jumpers SC-LC 3m	Each		
10.	5	SM Fiber Jumpers SC-LC 4m	Each		
11.	30	SM Fiber Jumpers SC-LC 5m	Each		
12.	5	SM Fiber Jumpers SC-LC 6m	Each		
13.	10	SM Fiber Jumpers SC-LC 7m	Each		
14.	10	SM Fiber Jumpers SC-LC 10m	Each		
15.	100	OM3-Fiber Jumpers SC-LC 1m	Each		
16.	50	OM3-Fiber Jumpers SC-LC 2m	Each		
17.	50	OM3-Fiber Jumpers SC-LC 3m	Each		
18.	5	OM3-Fiber Jumpers SC-LC 4m	Each		
19.	50	OM3-Fiber Jumpers SC-LC 5m	Each		
20.	5	OM3-Fiber Jumpers SC-LC 6m	Each		
21.	10	OM3-Fiber Jumpers SC-LC 7m	Each		
22.	10	OM3-Fiber Jumpers SC-LC 10m	Each		
23.	20	62.5u Fiber Jumpers SC-LC 1m	Each		
24.	75	62.5u Fiber Jumpers SC-LC 2m	Each		
25.	30	62.5u Fiber Jumpers SC-LC 3m	Each		
26.	5	62.5u Fiber Jumpers SC-LC 4m	Each		
27.	10	62.5u Fiber Jumpers SC-LC 5m	Each		
28.	5	62.5u Fiber Jumpers SC-LC 6m	Each		
29.	10	62.5u Fiber Jumpers SC-LC 7m	Each		
30.	10	62.5u Fiber Jumpers SC-LC 10m	Each		
31.	40	BLUE Cat6 1ft	Each		
32.	40	BLUE Cat6 2ft	Each		
33.	40	BLUE Cat6 3ft	Each		
34.	40	BLUE Cat6 5ft	Each		
				Total Price:	

Category: Rail Station Routers

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	68	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
2.	136	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
Product - Wiring Closet Network Equipment					
3.	34	MX240-PREMIUM3-ACH - MX240 Premium Bundle with redundant components, Highline AC Power	Each		
4.	68	CBL-M-PWR-RA-TWLK-US - AC Power Cord, US (NEMA LOCKING), C19, 20A/250V, 2.5m, Right Angle	Each		
5.	34	JUNOS-64 - JUNOS 64-bit Internet Software U.S. Domestic Version (not for export)	Each		
6.	68	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
7.	68	MPC2E-3D-NG-R-B - Next-Gen MPC2E,Port Queue,Full Scale,MX	Each		
8.	68	SCBE2-MX-BB - Enhanced MX Switch Control Board, Base Bundle	Each		
9.	34	S-JFLOW-NPU - NPU based software license for J- Flow accounting license on MS-MIC, MS-DPC, MS-MPC	Each		
10.	34	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
Product - Maintenance					
11.	68	SVC-ND-MPC2NG-R - Juniper Care Next Day Support for MPC2E-3D-NG-R-B	Each		
12.	34	SVC-ND-MX240 - Juniper Care Next Day Support for MX240 Chassis (includes RE/SCB/PWR/JUNOS)	Each		
				Total Price:	

Category: Rail Yard/ Extranet/Wan Routers (MX-104)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
Backbone					
1.	40	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	2	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	4	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	6	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
Wiring Closet Network Equipment					
5.	4	MX104-80G-AC-BNDL - MX104 bundle, 80G,4x10G built-in ports, 4 MIC slots, redundant AC PS,1 RE.	Each		

17

		SW licenses included :JUNOS, ADV-R2,JFLOW-5G			
6.	8	CBL-PWR-C15M-HITEMP-US - Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	Each		
7.	6	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
8.	4	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
9.	4	RE-S-MX104-WW-S - Routing engine for MX104 and 4GB memory, Spare	Each		
Maintenance					
10.	4	SVC-ND-MX104-80B - Juniper Care Next Day Support for MX104-80G-AC-BNDL and MX104-80G-DC-BNDL	Each		
				Total Price:	

Category: RAIL STATION SWITCHES (3850-48F-L)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	70	GLC-SX-MMD= - 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	Each		
2.	35	WS-C3850-48F-L - Cisco Catalyst 3850 48 Port Full PoE LAN Base	Each		
3.	35	PWR-C1-1100WAC/2 - 1100W AC Config 1 Secondary Power Supply	Each		
4.	35	C3850-NM-4-1G - Cisco Catalyst 3850 4 x 1GE Network Module	Each		
5.	2	CAB-SPWR-30CM= - Catalyst 3750X and 3850 Stack Power Cable 30 CM Spare	Each		
				Total Price:	

Category: Optics

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	10	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	9	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	124	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	190	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
				Total Price:	

Category: Training

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	15	Fundamental Training-Engineer	Students		
2.	15	Intermediate Training-Engineer	Students		
3.	44	Advanced Training-Sr. Engineer	Students		
				Total Price:	

(See Scope of Work for Training Requirements)

Authorized Signature: _____

Printed Name: _____

SCHEDULE OF PRICES: 2ND OPTION YEAR

Category: Patch Cables

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	5	SM APC- LC 1m	Each		
2.	5	SM APC- LC 2m	Each		
3.	5	SM APC- LC 5m	Each		
4.	27	SM FC-LC 1m	Each		
5.	27	SM FC-LC 2m	Each		
6.	10	SM FC-LC 5m	Each		
7.	50	SM Fiber Jumpers SC-LC 1m	Each		
8.	200	SM Fiber Jumpers SC-LC 2m	Each		
9.	20	SM Fiber Jumpers SC-LC 3m	Each		
10.	5	SM Fiber Jumpers SC-LC 4m	Each		
11.	30	SM Fiber Jumpers SC-LC 5m	Each		
12.	5	SM Fiber Jumpers SC-LC 6m	Each		
13.	10	SM Fiber Jumpers SC-LC 7m	Each		
14.	10	SM Fiber Jumpers SC-LC 10m	Each		
15.	100	OM3-Fiber Jumpers SC-LC 1m	Each		
16.	50	OM3-Fiber Jumpers SC-LC 2m	Each		
17.	50	OM3-Fiber Jumpers SC-LC 3m	Each		
18.	5	OM3-Fiber Jumpers SC-LC 4m	Each		
19.	50	OM3-Fiber Jumpers SC-LC 5m	Each		
20.	5	OM3-Fiber Jumpers SC-LC 6m	Each		
21.	10	OM3-Fiber Jumpers SC-LC 7m	Each		
22.	10	OM3-Fiber Jumpers SC-LC 10m	Each		
23.	20	62.5u Fiber Jumpers SC-LC 1m	Each		
24.	75	62.5u Fiber Jumpers SC-LC 2m	Each		
25.	30	62.5u Fiber Jumpers SC-LC 3m	Each		
26.	5	62.5u Fiber Jumpers SC-LC 4m	Each		
27.	10	62.5u Fiber Jumpers SC-LC 5m	Each		
28.	5	62.5u Fiber Jumpers SC-LC 6m	Each		
29.	10	62.5u Fiber Jumpers SC-LC 7m	Each		
30.	10	62.5u Fiber Jumpers SC-LC 10m	Each		
31.	40	BLUE Cat6 1ft	Each		
32.	40	BLUE Cat6 2ft	Each		
33.	40	BLUE Cat6 3ft	Each		
34.	40	BLUE Cat6 5ft	Each		
				Total Price:	

Category: Rail Station Routers

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	68	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
2.	136	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
Product - Wiring Closet Network Equipment					
3.	34	MX240-PREMIUM3-ACH - MX240 Premium Bundle with redundant components, Highline AC Power	Each		
4.	68	CBL-M-PWR-RA-TWLK-US - AC Power Cord, US (NEMA LOCKING), C19, 20A/250V, 2.5m, Right Angle	Each		
5.	34	JUNOS-64 - JUNOS 64-bit Internet Software U.S. Domestic Version (not for export)	Each		
6.	68	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
7.	68	MPC2E-3D-NG-R-B - Next-Gen MPC2E,Port Queue,Full Scale,MX	Each		
8.	68	SCBE2-MX-BB - Enhanced MX Switch Control Board, Base Bundle	Each		
9.	34	S-JFLOW-NPU - NPU based software license for J- Flow accounting license on MS-MIC, MS-DPC, MS-MPC	Each		
10.	34	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
Product - Maintenance					
11.	68	SVC-ND-MPC2NG-R - Juniper Care Next Day Support for MPC2E-3D-NG-R-B	Each		
12.	34	SVC-ND-MX240 - Juniper Care Next Day Support for MX240 Chassis (includes RE/SCB/PWR/JUNOS)	Each		
				Total Price:	

Category: Rail Yard/ Extranet/Wan Routers (MX-104)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
Backbone					
1.	40	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	2	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	4	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	6	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
Wiring Closet Network Equipment					
5.	4	MX104-80G-AC-BNDL - MX104 bundle, 80G,4x10G built-in ports, 4 MIC slots, redundant AC PS,1 RE.	Each		

			Unit of Measure	Price	Extended Price
		SW licenses included :JUNOS, ADV-R2,JFLOW-5G			
6.	8	CBL-PWR-C15M-HITEMP-US - Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	Each		
7.	6	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
8.	4	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
9.	4	RE-S-MX104-VW-S - Routing engine for MX104 and 4GB memory, Spare	Each		
Maintenance					
10.	4	SVC-ND-MX104-80B - Juniper Care Next Day Support for MX104-80G-AC-BNDL and MX104-80G-DC-BNDL	Each		
				Total Price:	

Category: RAIL STATION SWITCHES (3850-48F-L)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	70	GLC-SX-MMD= - 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	Each		
2.	35	WS-C3850-48F-L - Cisco Catalyst 3850 48 Port Full Poe LAN Base	Each		
3.	35	PWR-C1-1100WAC/2 - 1100W AC Config 1 Secondary Power Supply	Each		
4.	35	C3850-NM-4-1G - Cisco Catalyst 3850 4 x 1GE Network Module	Each		
5.	2	CAB-SPWR-30CM= - Catalyst 3750X and 3850 Stack Power Cable 30 CM Spare	Each		
				Total Price:	

Category: Optics

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	10	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	9	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	124	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	190	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
				Total Price:	

Category: Training

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	15	Fundamental Training-Engineer	Students		
2.	15	Intermediate Training-Engineer	Students		
3.	44	Advanced Training-Sr. Engineer	Students		
				Total Price:	

(See Scope of Work for Training Requirements)

Authorized Signature: _____

Printed Name: _____

Rev. 07/15

Rev. 07/15

SCHEDULE OF PRICES: 3RD OPTION YEAR

Category: Patch Cables

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	5	SM APC- LC 1m	Each		
2.	5	SM APC- LC 2m	Each		
3.	5	SM APC- LC 5m	Each		
4.	27	SM FC-LC 1m	Each		
5.	27	SM FC-LC 2m	Each		
6.	10	SM FC-LC 5m	Each		
7.	50	SM Fiber Jumpers SC-LC 1m	Each		
8.	200	SM Fiber Jumpers SC-LC 2m	Each		
9.	20	SM Fiber Jumpers SC-LC 3m	Each		
10.	5	SM Fiber Jumpers SC-LC 4m	Each		
11.	30	SM Fiber Jumpers SC-LC 5m	Each		
12.	5	SM Fiber Jumpers SC-LC 6m	Each		
13.	10	SM Fiber Jumpers SC-LC 7m	Each		
14.	10	SM Fiber Jumpers SC-LC 10m	Each		
15.	100	OM3-Fiber Jumpers SC-LC 1m	Each		
16.	50	OM3-Fiber Jumpers SC-LC 2m	Each		
17.	50	OM3-Fiber Jumpers SC-LC 3m	Each		
18.	5	OM3-Fiber Jumpers SC-LC 4m	Each		
19.	50	OM3-Fiber Jumpers SC-LC 5m	Each		
20.	5	OM3-Fiber Jumpers SC-LC 6m	Each		
21.	10	OM3-Fiber Jumpers SC-LC 7m	Each		
22.	10	OM3-Fiber Jumpers SC-LC 10m	Each		
23.	20	62.5u Fiber Jumpers SC-LC 1m	Each		
24.	75	62.5u Fiber Jumpers SC-LC 2m	Each		
25.	30	62.5u Fiber Jumpers SC-LC 3m	Each		
26.	5	62.5u Fiber Jumpers SC-LC 4m	Each		
27.	10	62.5u Fiber Jumpers SC-LC 5m	Each		
28.	5	62.5u Fiber Jumpers SC-LC 6m	Each		
29.	10	62.5u Fiber Jumpers SC-LC 7m	Each		
30.	10	62.5u Fiber Jumpers SC-LC 10m	Each		
31.	40	BLUE Cat6 1ft	Each		
32.	40	BLUE Cat6 2ft	Each		
33.	40	BLUE Cat6 3ft	Each		
34.	40	BLUE Cat6 5ft	Each		
				Total Price:	

Category: Rail Station Routers

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	68	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
2.	136	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
Product - Wiring Closet Network Equipment					
3.	34	MX240-PREMIUM3-ACH - MX240 Premium Bundle with redundant components, Highline AC Power	Each		
4.	68	CBL-M-PWR-RA-TWLK-US - AC Power Cord, US (NEMA LOCKING), C19, 20A/250V, 2.5m, Right Angle	Each		
5.	34	JUNOS-64 - JUNOS 64-bit Internet Software U.S. Domestic Version (not for export)	Each		
6.	68	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
7.	68	MPC2E-3D-NG-R-B - Next-Gen MPC2E,Port Queue,Full Scale,MX	Each		
8.	68	SCBE2-MX-BB - Enhanced MX Switch Control Board, Base Bundle	Each		
9.	34	S-JFLOW-NPU - NPU based software license for J- Flow accounting license on MS-MIC, MS-DPC, MS-MPC	Each		
10.	34	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
Product - Maintenance					
11.	68	SVC-ND-MPC2NG-R - Juniper Care Next Day Support for MPC2E-3D-NG-R-B	Each		
12.	34	SVC-ND-MX240 - Juniper Care Next Day Support for MX240 Chassis (includes RE/SCB/PWR/JUNOS)	Each		
				Total Price:	

Category: Rail Yard/ Extranet/Wan Routers (MX-104)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
Backbone					
1.	40	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	2	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	4	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	6	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
Wiring Closet Network Equipment					
5.	4	MX104-80G-AC-BNDL - MX104 bundle, 80G,4x10G built-in ports, 4 MIC slots, redundant AC PS,1 RE.	Each		

		SW licenses included :JUNOS, ADV-R2,JFLOW-5G			
6.	8	CBL-PWR-C15M-HITEMP-US - Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	Each		
7.	6	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
8.	4	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
9.	4	RE-S-MX104-WW-S - Routing engine for MX104 and 4GB memory, Spare	Each		
Maintenance					
10.	4	SVC-ND-MX104-80B - Juniper Care Next Day Support for MX104-80G-AC-BNDL and MX104-80G-DC-BNDL	Each		
				Total Price:	

Category: RAIL STATION SWITCHES (3850-48F-L)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	70	GLC-SX-MMD= - 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	Each		
2.	35	WS-C3850-48F-L - Cisco Catalyst 3850 48 Port Full PoE LAN Base	Each		
3.	35	PWR-C1-1100WAC/2 - 1100W AC Config 1 Secondary Power Supply	Each		
4.	35	C3850-NM-4-1G - Cisco Catalyst 3850 4 x 1GE Network Module	Each		
5.	2	CAB-SPWR-30CM= - Catalyst 3750X and 3850 Stack Power Cable 30 CM Spare	Each		
				Total Price:	

Category: Optics

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	10	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	9	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	124	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	190	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
				Total Price:	

Category: Training

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	15	Fundamental Training-Engineer	Students		
2.	15	Intermediate Training-Engineer	Students		
3.	44	Advanced Training-Sr. Engineer	Students		
				Total Price:	

(See Scope of Work for Training Requirements)

Authorized Signature: _____

Printed Name: _____

SCHEDULE OF PRICES: 4TH OPTION YEAR

Category: Patch Cables

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	5	SM APC- LC 1m	Each		
2.	5	SM APC- LC 2m	Each		
3.	5	SM APC- LC 5m	Each		
4.	27	SM FC-LC 1m	Each		
5.	27	SM FC-LC 2m	Each		
6.	10	SM FC-LC 5m	Each		
7.	50	SM Fiber Jumpers SC-LC 1m	Each		
8.	200	SM Fiber Jumpers SC-LC 2m	Each		
9.	20	SM Fiber Jumpers SC-LC 3m	Each		
10.	5	SM Fiber Jumpers SC-LC 4m	Each		
11.	30	SM Fiber Jumpers SC-LC 5m	Each		
12.	5	SM Fiber Jumpers SC-LC 6m	Each		
13.	10	SM Fiber Jumpers SC-LC 7m	Each		
14.	10	SM Fiber Jumpers SC-LC 10m	Each		
15.	100	OM3-Fiber Jumpers SC-LC 1m	Each		
16.	50	OM3-Fiber Jumpers SC-LC 2m	Each		
17.	50	OM3-Fiber Jumpers SC-LC 3m	Each		
18.	5	OM3-Fiber Jumpers SC-LC 4m	Each		
19.	50	OM3-Fiber Jumpers SC-LC 5m	Each		
20.	5	OM3-Fiber Jumpers SC-LC 6m	Each		
21.	10	OM3-Fiber Jumpers SC-LC 7m	Each		
22.	10	OM3-Fiber Jumpers SC-LC 10m	Each		
23.	20	62.5u Fiber Jumpers SC-LC 1m	Each		
24.	75	62.5u Fiber Jumpers SC-LC 2m	Each		
25.	30	62.5u Fiber Jumpers SC-LC 3m	Each		
26.	5	62.5u Fiber Jumpers SC-LC 4m	Each		
27.	10	62.5u Fiber Jumpers SC-LC 5m	Each		
28.	5	62.5u Fiber Jumpers SC-LC 6m	Each		
29.	10	62.5u Fiber Jumpers SC-LC 7m	Each		
30.	10	62.5u Fiber Jumpers SC-LC 10m	Each		
31.	40	BLUE Cat6 1ft	Each		
32.	40	BLUE Cat6 2ft	Each		
33.	40	BLUE Cat6 3ft	Each		
34.	40	BLUE Cat6 5ft	Each		
				Total Price:	

Category: Rail Station Routers

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	68	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
2.	136	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
Product - Wiring Closet Network Equipment					
3.	34	MX240-PREMIUM3-ACH - MX240 Premium Bundle with redundant components, Highline AC Power	Each		
4.	68	CBL-M-PWR-RA-TWLK-US - AC Power Cord, US (NEMA LOCKING), C19, 20A/250V, 2.5m, Right Angle	Each		
5.	34	JUNOS-64 - JUNOS 64-bit Internet Software U.S. Domestic Version (not for export)	Each		
6.	68	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
7.	68	MPC2E-3D-NG-R-B - Next-Gen MPC2E,Port Queue,Full Scale,MX	Each		
8.	68	SCBE2-MX-BB - Enhanced MX Switch Control Board, Base Bundle	Each		
9.	34	S-JFLOW-NPU - NPU based software license for J- Flow accounting license on MS-MIC, MS-DPC, MS-MPC	Each		
10.	34	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
Product - Maintenance					
11.	68	SVC-ND-MPC2NG-R - Juniper Care Next Day Support for MPC2E-3D-NG-R-B	Each		
12.	34	SVC-ND-MX240 - Juniper Care Next Day Support for MX240 Chassis (includes RE/SCB/PWR/JUNOS)	Each		
				Total Price:	

Category: Rail Yard/ Extranet/Wan Routers (MX-104)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
Backbone					
1.	40	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	2	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	4	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	6	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
Wiring Closet Network Equipment					
5.	4	MX104-80G-AC-BNDL - MX104 bundle, 80G,4x10G built-in ports, 4 MIC slots, redundant AC PS,1 RE	Each		

		SW licenses included :JUNOS, ADV-R2,JFLOW-5G			
6.	8	CBL-PWR-C15M-HITEMP-US - Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	Each		
7.	6	MIC-3D-20GE-SFP-E - MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	Each		
8.	4	MS-MIC-16G - Multi Service -MIC with 16G for MX	Each		
9.	4	RE-S-MX104-WW-S - Routing engine for MX104 and 4GB memory, Spare	Each		
Maintenance					
10.	4	SVC-ND-MX104-80B - Juniper Care Next Day Support for MX104-80G-AC-BNDL and MX104-80G-DC-BNDL	Each		
				Total Price:	

Category: RAIL STATION SWITCHES (3850-48F-L)

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	70	GLC-SX-MMD= - 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	Each		
2.	35	WS-C3850-48F-L - Cisco Catalyst 3850 48 Port Full PoE LAN Base	Each		
3.	35	PWR-C1-1100WAC/2 - 1100W AC Config 1 Secondary Power Supply	Each		
4.	35	C3850-NM-4-1G - Cisco Catalyst 3850 4 x 1GE Network Module	Each		
5.	2	CAB-SPWR-30CM= - Catalyst 3750X and 3850 Stack Power Cable 30 CM Spare	Each		
				Total Price:	

Category: Optics

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	10	SFP-1GE-FE-E-T - Small Form Factor Pluggable 10/100/1000Base-T Ethernet Module	Each		
2.	9	SFP-1GE-LH - Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module	Each		
3.	124	SFP-1GE-LX - Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	Each		
4.	190	SFP-1GE-SX - Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	Each		
				Total Price:	

Rev. 07/15

Category: Training

Item	Estimated Quantities	Description	Unit of Measure	Price	Extended Price
1.	15	Fundamental Training-Engineer	Students		
2.	15	Intermediate Training-Engineer	Students		
3.	44	Advanced Training- Sr. Engineer	Students		
				Total Price:	

(See Scope of Work for Training Requirements)

Authorized Signature: _____

Printed Name: _____

Rev. 07/15