

922-2017 ADDENDUM 2

PROVISION OF TRANSPARENT LAN SERVICES AND INTERNET GATEWAY SERVICES

URGENT

PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE REQUEST FOR PROPOSAL

ISSUED: March 27, 2018
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THIS ADDENDUM SHALL BE INCORPORATED INTO THE REQUEST FOR PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: Ar20160708

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Request for Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 9 of Form A: Proposal may render your Proposal non-responsive.

PART A – PROPOSAL SUBMISSION

Replace: 922-2017_Proposal Submission with 922-2017_Addendum_2 - Proposal Submission. The following is a summary of changes incorporated in the replacement Proposal Submission:

Form B(R2): Added 2 items 68 and 69 in an appropriate part of Section C

Item No. 68 is between Item 26 and 27.

Item No. 69 is after Item 55.

Page numbering on some forms may be changed as a result.

PART D – SUPPLEMENTAL CONDITIONS

Remove: D3 COOPERATIVE PURCHASE

PART E – SPECIFICATIONS

Revise: E3.2 to read:

E3.2 Installation Charges shall be any and all one time costs to implement the service end-to-end to the City's demark within the site which shall include but not be limited to:

- (a) All private property costs (e.g. trenching, landscaping, remediation)
- (b) All in-building costs (e.g. cable runs and trays to specified demark rooms, building entrance and reinstatement costs)
- (c) Any costs to meet C6.12.

Revise: E3.3 to read:

E3.3 The Contractor shall be responsible for performing locates on underground structures and be responsible for any damages caused during installation. The City shall be responsible for any asbestos remediation required during installation.

Revise: E3.7 to read:

E3.7 The Contractor shall provide As-Built record drawings produced in AutoCAD format (latest version) or marked up drawings from the PDF building drawings provided by the City. Drawing submission shall be in electronic copy. Drawings shall have a legend, date prepared, materials and construction specifications, scope of work and description.

E7 HIGH PERFORMANCE FIBRE SERVICES

E7.1 Item No.5

- (a) 1 Gbps Head End Network connectivity at 510 Main St. shall be a fibre 1 Gbps TLS connection at 510 Main that provides connectivity to all of the Contractor's remote site connections from the City's primary data centre at 7th floor - 510 Main St. There shall be as many VLANs, interfaces or QinQ trunks as required for the remote sites connecting to this connection (priced per Gbps interface required per month).
- (b) 1 Gbps Head End Network connectivity at 700 Assiniboine Park Dr. shall be a fibre 1 Gbps TLS connection at 700 Assiniboine Park Drive that provides connectivity to all of the Contractor's remote site connections from the City's alternate data centre at Room 132, 700 Assiniboine Park Drive. There shall be as many VLANs, interfaces or QinQ trunks as required for the remote sites connecting to this connection (priced per Gbps interface required per month).
- (c) Incremental cost for 1 Gbps head end network connectivity per site shall be the incremental cost to add 1 Gbps to connection E7.1(a) or E7.1(b).
- (d) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to Head End at 510 Main St.
- (e) Build Required at 510 Main Street shall be whether service installation will require private property or in-building cabling installation.
- (f) Build Required at 700 Assiniboine Park Drive shall be whether service installation will require private property or in-building cabling installation.
- (g) Installation charges shall be all one time charges to the City of Winnipeg to implement items E7.1(a) and E7.1(b).
- (h) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to Head End at 700 Assiniboine Park Dr.
- (i) Service Termination Charges after 12 months service shall be any costs to terminate Head End Connectivity services at 510 Main or 700 Assiniboine Park Drive after 12 months of service.
- (j) Service Termination Charges after 48 months service shall be any costs to terminate Head End Connectivity services at 510 Main or 700 Assiniboine Park Drive after 48 months of service.

E7.2 Item No. 6

- (a) 10 Mbps TLS at 955 Cottonwood Drive shall be a remote 10 Mbps fibre TLS connection at Library site 955 Cottonwood Drive to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 955 Cottonwood Drive shall be a remote 100 Mbps fibre TLS connection at Library site 955 Cottonwood Drive to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 955 Cottonwood Drive shall be a remote 1 Gbps fibre TLS connection at Library site 955 Cottonwood Drive to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 955 Cottonwood Drive.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 955 Cottonwood Drive.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 955 Cottonwood Drive.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 955 Cottonwood Drive after 12 months of service.

- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 955 Cottonwood Drive after 48 months of service.

E7.3 Item No. 710 Mbps TLS at 131 Provencher Boulevard shall be a remote 10 Mbps fibre TLS connection at Library site 131 Provencher Boulevard to connect to both Head End connections (Item No. 5).

- (b) 100 Mbps TLS at 131 Provencher Boulevard shall be a remote 100 Mbps fibre TLS connection at Library site 131 Provencher Boulevard to connect to both Head End connections ().
- (c) 1 Gbps TLS at 131 Provencher Boulevard shall be a remote 1 Gbps fibre TLS connection at Library site 131 Provencher Boulevard to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 131 Provencher Boulevard.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 131 Provencher Boulevard.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 131 Provencher Boulevard.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 131 Provencher Boulevard after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 131 Provencher Boulevard after 48 months of service.

E7.4 Item No. 8

- (i) 10 Mbps TLS at 6 Fermor Avenue shall be a remote 10 Mbps fibre TLS connection at Library site 6 Fermor Avenue to connect to both Head End connections (Item No. 5).
- (j) 100 Mbps TLS at 6 Fermor Avenue shall be a remote 100 Mbps fibre TLS connection at 6 Fermor Avenue to connect to both Head End connections (Item No. 5).
- (k) 1 Gbps TLS at 6 Fermor Avenue shall be a remote 1 Gbps fibre TLS connection at Library site 6 Fermor Avenue to connect to both Head End connections (Item No. 5).
- (l) Build Required shall be whether service installation will require private property or in-building cabling installation at 6 Fermor Avenue.
- (m) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 6 Fermor Avenue.
- (n) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 6 Fermor Avenue.
- (o) Service Termination Charges after 12 months service shall be any costs to terminate service at 6 Fermor Avenue after 12 months of service.
- (p) Service Termination Charges after 48 months service shall be any costs to terminate service at 6 Fermor Avenue after 48 months of service.

E7.5 Item No. 9

- (a) 10 Mbps TLS at 489 London Street shall be a remote 10 Mbps fibre TLS connection at Library site 489 London Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 489 London Street shall be a remote 100 Mbps fibre TLS connection at 489 London Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 489 London Street shall be a remote 1 Gbps fibre TLS connection at Library site 489 London Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 489 London Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 489 London Street.

- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 489 London Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 489 London Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 489 London Street after 48 months of service.

E7.6 Item No. 10

- (a) 10 Mbps TLS at 111 Victoria Avenue West shall be a remote 10 Mbps fibre TLS connection at Library site 111 Victoria Avenue West to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 111 Victoria Avenue West shall be a remote 100 Mbps fibre TLS connection at 111 Victoria Avenue West to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 111 Victoria Avenue West shall be a remote 1 Gbps fibre TLS connection at Library site 111 Victoria Avenue West to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 111 Victoria Avenue West.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 111 Victoria Avenue West.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 111 Victoria Avenue West.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 111 Victoria Avenue West after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 111 Victoria Avenue West after 48 months of service.

E7.7 Item No. 11

- (a) 10 Mbps TLS at 1168 Dakota Street shall be a remote 10 Mbps fibre TLS connection at Library site 1168 Dakota Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 1168 Dakota Street shall be a remote 100 Mbps fibre TLS connection at 1168 Dakota Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1168 Dakota Street shall be a remote 1 Gbps fibre TLS connection at Library site 1168 Dakota Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1168 Dakota Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1168 Dakota Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1168 Dakota Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1168 Dakota Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1168 Dakota Street after 48 months of service.

E7.8 Item No. 12

- (a) 10 Mbps TLS at 5014 Roblin Boulevard shall be a remote 10 Mbps fibre TLS connection at Library site 5014 Roblin Boulevard to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 5014 Roblin Boulevard shall be a remote 100 Mbps fibre TLS connection at 5014 Roblin Boulevard to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 5014 Roblin Boulevard shall be a remote 1 Gbps fibre TLS connection at Library site 5014 Roblin Boulevard to connect to both Head End connections (Item No. 5).

- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 5014 Roblin Boulevard.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 5014 Roblin Boulevard.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 5014 Roblin Boulevard.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 5014 Roblin Boulevard after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 5014 Roblin Boulevard after 48 months of service.

E7.9 Item No. 13

- (a) 10 Mbps TLS at 20 West Gate shall be a remote 10 Mbps fibre TLS connection at Library site 20 West Gate to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 20 West Gate shall be a remote 100 Mbps fibre TLS connection at 20 West Gate to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 20 West Gate shall be a remote 1 Gbps fibre TLS connection at Library site 20 West Gate to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 20 West Gate.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 20 West Gate.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 20 West Gate.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 20 West Gate after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 20 West Gate after 48 months of service.

E7.10 Item No. 14

- (a) 10 Mbps TLS at 1050 Henderson Highway shall be a remote 10 Mbps fibre TLS connection at Library site 1050 Henderson Highway to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 1050 Henderson Highway shall be a remote 100 Mbps fibre TLS connection at 1050 Henderson Highway to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1050 Henderson Highway shall be a remote 1 Gbps fibre TLS connection at Library site 1050 Henderson Highway to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1050 Henderson Highway.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1050 Henderson Highway.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1050 Henderson Highway.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1050 Henderson Highway after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1050 Henderson Highway after 48 months of service.

E7.11 Item No. 15

- (a) 10 Mbps TLS at 2724 Pembina Highway shall be a remote 10 Mbps fibre TLS connection at Library site 2724 Pembina Highway to connect to both Head End connections (Item No. 5).

- (b) 100 Mbps TLS at 2724 Pembina Highway shall be a remote 100 Mbps fibre TLS connection at 2724 Pembina Highway to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 2724 Pembina Highway shall be a remote 1 Gbps fibre TLS connection at Library site 2724 Pembina Highway to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 2724 Pembina Highway.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 2724 Pembina Highway.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 2724 Pembina Highway.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 2724 Pembina Highway after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 2724 Pembina Highway after 48 months of service.

E7.12 Item No. 16

- (a) 10 Mbps TLS at 500 Salter Street shall be a remote 10 Mbps fibre TLS connection at Library site 500 Salter Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 500 Salter Street shall be a remote 100 Mbps fibre TLS connection at 500 Salter Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 500 Salter Street shall be a remote 1 Gbps fibre TLS connection at Library site 500 Salter Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 500 Salter Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 500 Salter Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 500 Salter Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 500 Salter Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 500 Salter Street after 48 months of service.

E7.13 Item No. 17

- (a) 10 Mbps TLS at 365 Jefferson Avenue shall be a remote 10 Mbps fibre TLS connection at Library site 365 Jefferson Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 365 Jefferson Avenue shall be a remote 100 Mbps fibre TLS connection at 365 Jefferson Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 365 Jefferson Avenue shall be a remote 1 Gbps fibre TLS connection at Library site 365 Jefferson Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 365 Jefferson Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 365 Jefferson Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 365 Jefferson Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 365 Jefferson Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 365 Jefferson Avenue after 48 months of service.

E7.14 Item No. 18

- (a) 10 Mbps TLS at 66 Allard Avenue shall be a remote 10 Mbps fibre TLS connection at Library site 66 Allard Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 66 Allard Avenue shall be a remote 100 Mbps fibre TLS connection at 66 Allard Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 66 Allard Avenue shall be a remote 1 Gbps fibre TLS connection at Library site 66 Allard Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 66 Allard Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 66 Allard Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 66 Allard Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 66 Allard Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 66 Allard Avenue after 48 months of service.

E7.15 Item No. 19

- (a) 10 Mbps TLS at 6-4910 Roblin Boulevard shall be a remote 10 Mbps fibre TLS connection at Library site 6-4910 Roblin Boulevard to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 6-4910 Roblin Boulevard shall be a remote 100 Mbps fibre TLS connection at 6-4910 Roblin Boulevard to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 6-4910 Roblin Boulevard shall be a remote 1 Gbps fibre TLS connection at Library site 6-4910 Roblin Boulevard to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 6-4910 Roblin Boulevard.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 6-4910 Roblin Boulevard.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 6-4910 Roblin Boulevard.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 6-4910 Roblin Boulevard after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 6-4910 Roblin Boulevard after 48 months of service.

E7.16 Item No. 20

- (a) 10 Mbps TLS at 999 Sargent Avenue shall be a remote 10 Mbps fibre TLS connection at Library site 999 Sargent Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 999 Sargent Avenue shall be a remote 100 Mbps fibre TLS connection at 999 Sargent Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 999 Sargent Avenue shall be a remote 1 Gbps fibre TLS connection at Library site 999 Sargent Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 999 Sargent Avenue
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 999 Sargent Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 999 Sargent Avenue.

- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 999 Sargent Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 999 Sargent Avenue after 48 months of service.

E7.17 Item No. 21

- (a) 10 Mbps TLS at 360 McPhillips Street shall be a remote 10 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 360 McPhillips Street. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 23, 24 and 25.
- (b) 100 Mbps TLS at 360 McPhillips Street shall be a remote 100 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 360 McPhillips. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 23, 24 and 25.
- (c) 1 Gbps TLS at 360 McPhillips Street shall be a remote 1 Gbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site - 360 McPhillips. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 23, 24 and 25.
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 360 McPhillips Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 360 McPhillips Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 360 McPhillips Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 360 McPhillips Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 360 McPhillips Street after 48 months of service.

E7.18 Item No. 22

- (a) 10 Mbps TLS at One Transcona Blvd shall be a remote 10 Mbps fibre TLS connection at Library site One Transcona Blvd to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at One Transcona Blvd shall be a remote 100 Mbps fibre TLS connection at One Transcona Blvd to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at One Transcona Blvd shall be a remote 1 Gbps fibre TLS connection at Library site One Transcona Blvd to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at One Transcona Blvd.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to One Transcona Blvd.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at One Transcona Blvd.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at One Transcona Blvd after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at One Transcona Blvd after 48 months of service.

E7.19 Item No. 23

- (a) 10 Mbps TLS at 866 Tache Avenue shall be a remote 10 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 866 Tache Avenue. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 21, 24 and 25.
- (b) 100 Mbps TLS at 866 Tache Avenue shall be a remote 100 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 866 Tache Avenue. The Contractor shall implement network

segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 21, 24 and 25.

- (c) 1 Gbps TLS at 866 Tache Avenue shall be a remote 1 Gbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 866 Tache Avenue. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 21, 24 and 25.
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 866 Tache Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 866 Tache Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 866 Tache Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 866 Tache Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 866 Tache Avenue after 48 months of service.

E7.20 Item No. 24

- (a) 10 Mbps TLS at 60 Hurst Way shall be a remote 10 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 60 Hurst Way. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 21, 23 and 25.
- (b) 100 Mbps TLS at 60 Hurst Way shall be a remote 100 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 60 Hurst Way. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 21, 23 and 25.
- (c) 1 Gbps TLS at 60 Hurst Way shall be a remote 1 Gbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 60 Hurst Way. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 21, 23 and 25.
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 60 Hurst Way.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 60 Hurst Way.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 60 Hurst Way.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 60 Hurst Way after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 60 Hurst Way after 48 months of service.

E7.21 Item No. 25

- (a) 10 Mbps TLS at 875 Lagimodiere Boulevard shall be a remote 10 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 875 Lagimodiere Boulevard. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 21, 23 and 24.
- (b) 100 Mbps TLS at 875 Lagimodiere Boulevard shall be a remote 100 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 875 Lagimodiere Boulevard. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 21, 23 and 24.
- (c) 1 Gbps TLS at 875 Lagimodiere Boulevard shall be a remote 1 Gbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 875 Lagimodiere Boulevard. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 68, 21, 23 and 24.

- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 875 Lagimodiere Boulevard.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 875 Lagimodiere Boulevard.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 875 Lagimodiere Boulevard.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 875 Lagimodiere Boulevard after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 875 Lagimodiere Boulevard after 48 months of service.

E7.22 Item No. 26

- (a) 10 Mbps TLS at 57082 Hwy. #207 shall be a remote 10 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 57082 Hwy. #207 to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 57082 Hwy. #207 shall be a remote 100 Mbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 57082 Hwy. #207 to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 57082 Hwy. #207 shall be a remote 1 Gbps fibre TLS connection at Winnipeg Drinking Water Treatment Plant site 57082 Hwy. #207 to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 57082 Hwy. #207.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 57082 Hwy. #207.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 57082 Hwy. #207.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 57082 Hwy. #207 after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 57082 Hwy. #207 after 48 months of service.

E7.23 Item No. 27

- (a) 10 Mbps TLS at 55 Nassau Street shall be a remote 10 Mbps fibre TLS connection at Transit site 55 Nassau Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 55 Nassau Street shall be a remote 100 Mbps fibre TLS connection at Transit site 55 Nassau Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 55 Nassau Street shall be a remote 1 Gbps fibre TLS connection at Transit site 55 Nassau Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 55 Nassau Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 55 Nassau Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 55 Nassau Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 55 Nassau Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 55 Nassau Street after 48 months of service.

E7.24 Item No. 28

- (a) 10 Mbps TLS at 1120 Waverley Street shall be a remote 10 Mbps fibre TLS connection at Water and Waste site 1120 Waverley Street to connect to both Head End connections (Item No. 5).

- (b) 100 Mbps TLS at 1120 Waverley Street shall be a remote 100 Mbps fibre TLS connection at 1120 Waverley Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1120 Waverley Street shall be a remote 1 Gbps fibre TLS connection at Water and Waste site 1120 Waverley Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1120 Waverley Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1120 Waverley Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1120 Waverley Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1120 Waverley Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1120 Waverley Street after 48 months of service.

E7.25 Item No. 29

- (a) 10 Mbps TLS at 1777 Brady Road shall be a remote 10 Mbps fibre TLS connection at Water and Waste site 1777 Brady Road to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 1777 Brady Road shall be a remote 100 Mbps fibre TLS connection at 1777 Brady Road to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1777 Brady Road shall be a remote 1 Gbps fibre TLS connection at Water and Waste site 1777 Brady Road to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1777 Brady Road.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1777 Brady Road.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1777 Brady Road.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1777 Brady Road after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1777 Brady Road after 48 months of service.

E7.26 Item No. 30

- (a) 10 Mbps TLS at 552 Plinguet Street shall be a remote 10 Mbps fibre TLS connection at Water and Waste site 552 Plinguet Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 552 Plinguet Street shall be a remote 100 Mbps fibre TLS connection at 552 Plinguet Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 552 Plinguet Street shall be a remote 1 Gbps fibre TLS connection at Water and Waste site 552 Plinguet Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 552 Plinguet Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 552 Plinguet Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 552 Plinguet Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 552 Plinguet Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 552 Plinguet Street after 48 months of service.

E7.27 Item No. 31

- (a) 10 Mbps TLS at 243 Main Street shall be a remote 10 Mbps fibre TLS connection at Water and Waste site 243 Main Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 243 Main Street shall be a remote 100 Mbps fibre TLS connection at 243 Main Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 243 Main Street shall be a remote 1 Gbps fibre TLS connection at Water and Waste site 243 Main Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 243 Main Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 243 Main Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 243 Main Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 243 Main Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 243 Main Street after 48 months of service.

E7.28 Item No. 32

- (a) 10 Mbps TLS at 245 Smith Street, (Linear entrance) shall be a remote 10 Mbps fibre TLS connection at Winnipeg Police site 245 Smith Street, (Linear entrance) to connect to both Head End connections (Item No. 5). This TLS shall be diverse (both in the Contractor's network and in the physical entry to the building) from the diverse entrance TLS specified in Item No. 33.
- (b) 100 Mbps TLS at 245 Smith Street, (Linear entrance) shall be a remote 100 Mbps fibre TLS connection at 245 Smith Street, (Linear entrance) to connect to both Head End connections (Item No. 5). This TLS shall be diverse (both in the Contractor's network and in the physical entry to the building) from the diverse entrance TLS specified in Item No. 33.
- (c) 1 Gbps TLS at 245 Smith Street, (Linear entrance) shall be a remote 1 Gbps fibre TLS connection at Winnipeg Police site 245 Smith Street, (Linear entrance) to connect to both Head End connections (Item No. 5). This TLS shall be diverse (both in the Contractor's network and in the physical entry to the building) from the diverse entrance TLS specified in Item No. 33.
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 245 Smith Street, (Linear entrance).
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 245 Smith Street, (Linear entrance).
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 245 Smith Street, (Linear entrance).
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 245 Smith Street, (Linear entrance) after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 245 Smith Street, (Linear entrance) after 48 months of service.

E7.29 Item No. 33

- (a) 10 Mbps TLS at 245 Smith Street, (Diverse entrance) shall be a remote 10 Mbps fibre TLS connection at Winnipeg Police site 245 Smith Street, (Diverse entrance) to connect to both Head End connections (Item No. 5). This TLS shall be diverse (both in the Contractor's network and in the physical entry to the building) from the linear entrance TLS specified in Item No. 32.
- (b) 100 Mbps TLS at 245 Smith Street, (Diverse entrance) shall be a remote 100 Mbps fibre TLS connection at 245 Smith Street, (Diverse entrance) to connect to both Head End connections (Item No. 5). This TLS shall be diverse (both in the Contractor's network and in the physical entry to the building) from the linear entrance TLS specified Item No. 32.

- (c) 1 Gbps TLS at 245 Smith Street, (Diverse entrance) shall be a remote 1 Gbps fibre TLS connection at Winnipeg Police site 245 Smith Street, (Diverse entrance) to connect to both Head End connections (Item No. 5). This TLS shall be diverse (both in the Contractor's network and in the physical entry to the building) from the linear entrance TLS specified in Item No. 32.
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 245 Smith Street, (Diverse entrance).
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 245 Smith Street, (Diverse entrance).
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 245 Smith Street, (Diverse entrance).
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 245 Smith Street, (Diverse entrance) after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 245 Smith Street, (Diverse entrance) after 48 months of service.

E7.30 Item No. 34

- (a) 10 Mbps TLS at 77 Durand Rd shall be a remote 10 Mbps fibre TLS connection at Winnipeg Police site 77 Durand Rd to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 77 Durand Rd shall be a remote 100 Mbps fibre TLS connection at 77 Durand Rd to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 77 Durand Rd shall be a remote 1 Gbps fibre TLS connection at Winnipeg Police site 77 Durand Rd to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 77 Durand Rd.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 77 Durand Rd.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 77 Durand Rd.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 77 Durand Rd after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 77 Durand Rd after 48 months of service.

E7.31 Item No. 35

- (a) 10 Mbps TLS at 2321 Grant Avenue shall be a remote 10 Mbps fibre TLS connection at Winnipeg Police site 2321 Grant Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 2321 Grant Avenue shall be a remote 100 Mbps fibre TLS connection at 2321 Grant Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 2321 Grant Avenue shall be a remote 1 Gbps fibre TLS connection at Winnipeg Police site 2321 Grant Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 2321 Grant Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 2321 Grant Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 2321 Grant Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 2321 Grant Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 2321 Grant Avenue after 48 months of service.

E7.32 Item No. 36

- (a) 10 Mbps TLS at 1750 Dugald Road shall be a remote 10 Mbps fibre TLS connection at Winnipeg Police site 1750 Dugald Road to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 1750 Dugald Road shall be a remote 100 Mbps fibre TLS connection at 1750 Dugald Road to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1750 Dugald Road shall be a remote 1 Gbps fibre TLS connection at Winnipeg Police site 1750 Dugald Road to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1750 Dugald Road.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1750 Dugald Road.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1750 Dugald Road.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1750 Dugald Road after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1750 Dugald Road after 48 months of service.

E7.33 Item No. 37

- (a) 10 Mbps TLS at 260 Hartford Ave shall be a remote 10 Mbps fibre TLS connection at Winnipeg Police site 260 Hartford Ave to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 260 Hartford Ave shall be a remote 100 Mbps fibre TLS connection at 260 Hartford Ave to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 260 Hartford Ave shall be a remote 1 Gbps fibre TLS connection at Winnipeg Police site 260 Hartford Ave to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 260 Hartford Ave.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 260 Hartford Ave.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 260 Hartford Ave.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 260 Hartford Ave after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 260 Hartford Ave after 48 months of service.

E7.34 Item No. 38

- (a) 10 Mbps TLS at 1446 Regent Avenue shall be a remote 10 Mbps fibre TLS connection at Winnipeg Fire Paramedic site 1446 Regent Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 1446 Regent Avenue shall be a remote 100 Mbps fibre TLS connection at 1446 Regent Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1446 Regent Avenue shall be a remote 1 Gbps fibre TLS connection at Winnipeg Fire Paramedic site 1446 Regent Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1446 Regent Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1446 Regent Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1446 Regent Avenue.

- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1446 Regent Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1446 Regent Avenue after 48 months of service.

E7.35 Item No. 39

- (a) 10 Mbps TLS at 2546 McPhillips Street shall be a remote 10 Mbps fibre TLS connection at Winnipeg Fire Paramedic site 2546 McPhillips Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 2546 McPhillips Street shall be a remote 100 Mbps fibre TLS connection at 2546 McPhillips Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 2546 McPhillips Street shall be a remote 1 Gbps fibre TLS connection at Winnipeg Fire Paramedic site 2546 McPhillips Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 2546 McPhillips Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 2546 McPhillips Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 2546 McPhillips Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 2546 McPhillips Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 2546 McPhillips Street after 48 months of service.

E7.36 Item No. 40

- (a) 10 Mbps TLS at 1705 Portage Avenue shall be a remote 10 Mbps fibre TLS connection at Winnipeg Fire Paramedic site 1705 Portage Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 1705 Portage Avenue shall be a remote 100 Mbps fibre TLS connection at 1705 Portage Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1705 Portage Avenue shall be a remote 1 Gbps fibre TLS connection at Winnipeg Fire Paramedic site 1705 Portage Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1705 Portage Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1705 Portage Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1705 Portage Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1705 Portage Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1705 Portage Avenue after 48 months of service.

E7.37 Item No. 41

- (a) 10 Mbps TLS at 2490 Portage Avenue shall be a remote 10 Mbps fibre TLS connection at Winnipeg Fire Paramedic site 2490 Portage Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 2490 Portage Avenue shall be a remote 100 Mbps fibre TLS connection at 2490 Portage Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 2490 Portage Avenue shall be a remote 1 Gbps fibre TLS connection at Winnipeg Fire Paramedic site 2490 Portage Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 2490 Portage Avenue.

- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 2490 Portage Avenue
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 2490 Portage Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 2490 Portage Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 2490 Portage Avenue after 48 months of service.

E7.38 Item No. 42

- (a) 10 Mbps TLS at 55 Watt Street shall be a remote 10 Mbps fibre TLS connection at Winnipeg Fire Paramedic site 55 Watt Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 55 Watt Street shall be a remote 100 Mbps fibre TLS connection at 55 Watt Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 55 Watt Street shall be a remote 1 Gbps fibre TLS connection at Winnipeg Fire Paramedic site 55 Watt Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 55 Watt Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 55 Watt Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 55 Watt Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 55 Watt Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 55 Watt Street after 48 months of service.

E7.39 Item No. 43

- (a) 10 Mbps TLS at 845 Sargent Avenue shall be a remote 10 Mbps fibre TLS connection at Winnipeg Fire Paramedic site 845 Sargent Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 845 Sargent Avenue shall be a remote 100 Mbps fibre TLS connection at 845 Sargent Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 845 Sargent Avenue shall be a remote 1 Gbps fibre TLS connection at Winnipeg Fire Paramedic site 845 Sargent Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 845 Sargent Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 845 Sargent Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 845 Sargent Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 845 Sargent Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 845 Sargent Avenue after 48 months of service.

E7.40 Item No. 44

- (a) 10 Mbps TLS at 317 Donald Street shall be a remote 10 Mbps fibre TLS connection at Employee Benefits site 317 Donald Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 317 Donald Street shall be a remote 100 Mbps fibre TLS connection at 317 Donald Street to connect to both Head End connections (Item No. 5).

- (c) 1 Gbps TLS at 317 Donald Street shall be a remote 1 Gbps fibre TLS connection at Employee Benefits site 317 Donald Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 317 Donald Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 317 Donald Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 317 Donald Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 317 Donald Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 317 Donald Street after 48 months of service.

E7.41 Item No. 45

- (a) 10 Mbps TLS at 234 Donald Street shall be a remote 10 Mbps fibre TLS connection at Corporate Support Services site 234 Donald Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 234 Donald Street shall be a remote 100 Mbps fibre TLS connection at 234 Donald Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 234 Donald Street shall be a remote 1 Gbps fibre TLS connection at Corporate Support Services site 234 Donald Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 234 Donald Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 234 Donald Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 234 Donald Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 234 Donald Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 234 Donald Street after 48 months of service.

E7.42 Item No. 46

- (a) 10 Mbps TLS at 421 Osborne Street shall be a remote 10 Mbps fibre TLS connection at Transit site 421 Osborne Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 421 Osborne Street shall be a remote 100 Mbps fibre TLS connection at 421 Osborne Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 421 Osborne Street shall be a remote 1 Gbps fibre TLS connection at Transit site 421 Osborne Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 421 Osborne Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 421 Osborne Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 421 Osborne Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 421 Osborne Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 421 Osborne Street after 48 months of service.

E7.43 Item No. 47

- (a) 10 Mbps TLS at 1520 Main Street shall be a remote 10 Mbps fibre TLS connection at Transit site 1520 Main Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 1520 Main Street shall be a remote 100 Mbps fibre TLS connection at 1520 Main Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1520 Main Street shall be a remote 1 Gbps fibre TLS connection at Transit site 1520 Main Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1520 Main Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1520 Main Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1520 Main Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1520 Main Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1520 Main Street after 48 months of service.

E7.44 Item No. 48

- (a) 10 Mbps TLS at 195 Tecumseh Street shall be a remote 10 Mbps fibre TLS connection at Public Works site 195 Tecumseh Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 195 Tecumseh Street shall be a remote 100 Mbps fibre TLS connection at 195 Tecumseh Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 195 Tecumseh Street shall be a remote 1 Gbps fibre TLS connection at Public Works site 195 Tecumseh Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 195 Tecumseh Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 195 Tecumseh Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 195 Tecumseh Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 195 Tecumseh Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 195 Tecumseh Street after 48 months of service.

E7.45 Item No. 49

- (a) 10 Mbps TLS at 1539 Waverley Street shall be a remote 10 Mbps fibre TLS connection at Public Works site 1539 Waverley Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 1539 Waverley Street shall be a remote 100 Mbps fibre TLS connection at 1539 Waverley Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1539 Waverley Street shall be a remote 1 Gbps fibre TLS connection at Public Works site 1539 Waverley Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1539 Waverley Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1539 Waverley Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1539 Waverley Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1539 Waverley Street after 12 months of service.

- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1539 Waverley Street after 48 months of service.

E7.46 Item No. 50

- (a) 10 Mbps TLS at 2795 Ness Avenue shall be a remote 10 Mbps fibre TLS connection at Public Works site 2795 Ness Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 2795 Ness Avenue shall be a remote 100 Mbps fibre TLS connection at 2795 Ness Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 2795 Ness Avenue shall be a remote 1 Gbps fibre TLS connection at Public Works site 2795 Ness Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 2795 Ness Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 2795 Ness Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 2795 Ness Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 2795 Ness Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 2795 Ness Avenue after 48 months of service.

E7.47 Item No. 51

- (a) 10 Mbps TLS at 960 Thomas Ave shall be a remote 10 Mbps fibre TLS connection at Public Works site 960 Thomas Ave to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 960 Thomas Ave shall be a remote 100 Mbps fibre TLS connection at 960 Thomas Ave to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 960 Thomas Ave shall be a remote 1 Gbps fibre TLS connection at Public Works site 960 Thomas Ave to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 960 Thomas Ave.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 960 Thomas Ave.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 960 Thomas Ave.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 960 Thomas Ave after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 960 Thomas Ave after 48 months of service.

E7.48 Item No. 52

- (a) 10 Mbps TLS at 495 Archibald Street shall be a remote 10 Mbps fibre TLS connection at Public Works site 495 Archibald Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 495 Archibald Street shall be a remote 100 Mbps fibre TLS connection at 495 Archibald Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 495 Archibald Street shall be a remote 1 Gbps fibre TLS connection at Public Works site 495 Archibald Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 495 Archibald Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 495 Archibald Street.

- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 495 Archibald Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 495 Archibald Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 495 Archibald Street after 48 months of service.

E7.49 Item No. 53

- (a) 10 Mbps TLS at 50 Myrtle Street shall be a remote 10 Mbps fibre TLS connection at City Clerks site 50 Myrtle Street to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 50 Myrtle Street shall be a remote 100 Mbps fibre TLS connection at 50 Myrtle Street to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 50 Myrtle Street shall be a remote 1 Gbps fibre TLS connection at City Clerks site 50 Myrtle Street to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 50 Myrtle Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 50 Myrtle Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 50 Myrtle Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 50 Myrtle Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 50 Myrtle Street after 48 months of service.

E7.50 Item No. 54

- (a) 10 Mbps TLS at 40 Mayfair Place shall be a remote 10 Mbps fibre TLS connection at Community Services site 40 Mayfair Place to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 40 Mayfair Place shall be a remote 100 Mbps fibre TLS connection at 40 Mayfair Place to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 40 Mayfair Place shall be a remote 1 Gbps fibre TLS connection at Community Services site 40 Mayfair Place to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 40 Mayfair Place.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 40 Mayfair Place.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 40 Mayfair Place.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 40 Mayfair Place after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 40 Mayfair Place after 48 months of service.

E7.51 Item No. 55

- (a) 10 Mbps TLS at 2055 Ness Avenue shall be a remote 10 Mbps fibre TLS connection at Community Services site 2055 Ness Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 2055 Ness Avenue shall be a remote 100 Mbps fibre TLS connection at 2055 Ness Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 2055 Ness Avenue shall be a remote 1 Gbps fibre TLS connection at Community Services site 2055 Ness Avenue to connect to both Head End connections (Item No. 5).

- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 2055 Ness Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 2055 Ness Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 2055 Ness Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 2055 Ness Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 2055 Ness Avenue after 48 months of service.

E7.52 Item No.56

- (a) 1 Gbps Head End Network connectivity at 510 Main St. shall be a 1 Gbps TLS connection at 510 Main that provides connectivity to all of the Contractor's remote site connections from the City's primary data centre at 7th floor - 510 Main St. There shall be as many VLANs, interfaces or QinQ trunks as required for the remote sites connecting to this connection (priced per Gbps interface required per month).
- (b) 1 Gbps Head End Network connectivity at 700 Assiniboine Park Dr. shall be a 1 Gbps TLS connection at 700 Assiniboine Park Drive that provides connectivity to all of the Contractor's remote site connections from the City's alternate data centre at Room 132, 700 Assiniboine Park Drive. There shall be as many VLANs, interfaces or QinQ trunks as required for the remote sites connecting to this connection (priced per Gbps interface required per month).
- (c) Incremental cost for 1 Gbps head end network connectivity per site shall be the incremental cost to add 1 Gbps to connection E7.52(a) or E7.52(b).
- (d) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to Head End at 510 Main St.
- (e) Build Required at 510 Main Street shall be whether service installation will require private property or in-building cabling installation.
- (f) Build Required at 700 Assiniboine Park Drive shall be whether service installation will require private property or in-building cabling installation.
- (g) Installation charges shall be all one time charges to the City of Winnipeg to implement items E7.52(a) and E7.52(b).
- (h) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to Head End at 700 Assiniboine Park Dr.
- (i) Service Termination Charges after 12 months service shall be any costs to terminate Head End Connectivity services at 510 Main or 700 Assiniboine Park Drive after 12 months of service.
- (j) Service Termination Charges after 48 months service shall be any costs to terminate Head End Connectivity services at 510 Main or 700 Assiniboine Park Drive after 48 months of service.

E7.53 Item No. 57

- (a) 10 Mbps TLS at 781 Crescent Drive shall be a remote 10 Mbps fibre TLS connection at Golf Services site 781 Crescent Drive to connect to both Head End connections (Item No. 56).
- (b) 100 Mbps TLS at 781 Crescent Drive shall be a remote 100 Mbps fibre TLS connection at 781 Crescent Drive to connect to both Head End connections (Item No. 56).
- (c) 1 Gbps TLS at 781 Crescent Drive shall be a remote 1 Gbps fibre TLS connection at Golf Services site 781 Crescent Drive to connect to both Head End connections (Item No. 56).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 781 Crescent Drive.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 781 Crescent Drive.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 781 Crescent Drive.

- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 781 Crescent Drive after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 781 Crescent Drive after 48 months of service.

E7.54 Item No. 58

- (a) 10 Mbps TLS at 10 Des Meurons Street shall be a remote 10 Mbps fibre TLS connection at Golf Services site 10 Des Meurons Street to connect to both Head End connections (Item No. 56).
- (b) 100 Mbps TLS at 10 Des Meurons Street shall be a remote 100 Mbps fibre TLS connection at 10 Des Meurons Street to connect to both Head End connections (Item No. 56).
- (c) 1 Gbps TLS at 10 Des Meurons Street shall be a remote 1 Gbps fibre TLS connection at Golf Services site 10 Des Meurons Street to connect to both Head End connections (Item No. 56).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 10 Des Meurons Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 10 Des Meurons Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 10 Des Meurons Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 10 Des Meurons Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 10 Des Meurons Street after 48 months of service.

E7.55 Item No. 59

- (a) 10 Mbps TLS at 2021 Main Street shall be a remote 10 Mbps fibre TLS connection at Golf Services site 2021 Main Street to connect to both Head End connections (Item No. 56).
- (b) 100 Mbps TLS at 2021 Main Street shall be a remote 100 Mbps fibre TLS connection at 2021 Main Street to connect to both Head End connections (Item No. 56).
- (c) 1 Gbps TLS at 2021 Main Street shall be a remote 1 Gbps fibre TLS connection at Golf Services site 2021 Main Street to connect to both Head End connections (Item No. 56).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 2021 Main Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 2021 Main Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 2021 Main Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 2021 Main Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 2021 Main Street after 48 months of service.

E7.56 Item No. 60

- (a) 10 Mbps TLS at 266 Graham Avenue shall be a remote 10 Mbps fibre TLS connection at Public Works site 266 Graham Avenue to connect to both Head End connections (Item No. 56).
- (b) 100 Mbps TLS at 266 Graham Avenue shall be a remote 100 Mbps fibre TLS connection at 266 Graham Avenue to connect to both Head End connections (Item No. 56).
- (c) 1 Gbps TLS at 266 Graham Avenue shall be a remote 1 Gbps fibre TLS connection at Public Works site 266 Graham Avenue to connect to both Head End connections (Item No. 56).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 266 Graham Avenue.

- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 266 Graham Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 266 Graham Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 266 Graham Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 266 Graham Avenue after 48 months of service.

E7.57 Item No. 61

- (a) 10 Mbps TLS at 75 Martha Street shall be a remote 10 Mbps fibre TLS connection at Winnipeg Fire Paramedic site 75 Martha Street to connect to both Head End connections (Item No. 56).
- (b) 100 Mbps TLS at 75 Martha Street shall be a remote 100 Mbps fibre TLS connection at 75 Martha Street to connect to both Head End connections (Item No. 56).
- (c) 1 Gbps TLS at 75 Martha Street shall be a remote 1 Gbps fibre TLS connection at Winnipeg Fire Paramedic site 75 Martha Street to connect to both Head End connections (Item No. 56).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 75 Martha Street.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 75 Martha Street.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 75 Martha Street.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 75 Martha Street after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 75 Martha Street after 48 months of service.

E7.58 Item No. 68

- (a) 10 Mbps TLS at 57082 Hwy. #207 shall be a 10 Mbps fibre Head End TLS connection at Winnipeg Drinking Water Treatment Plant site 57082 Hwy. #207. The Contractor shall implement network segregation to contain the traffic to communicate within an isolated network connecting only to Items 21, 23, 24 and 25.
- (b) 100 Mbps TLS at 57082 Hwy. #207 shall be a 100 Mbps fibre Head End TLS connection at Water and Waste pumping station site 57082 Hwy. #207. The Contractor shall implement network segregation to contain this traffic to communicate within an isolated network connecting only to Items 21, 23, 24 and 25.
- (c) 1 Gbps TLS at 57082 Hwy. #207 shall be a 1 Gbps fibre Head End TLS connection at Water and Waste pumping station site 57082 Hwy. #207. The Contractor shall implement network segregation to contain this traffic to communicate within an isolated network connecting only to Items 21, 23, 24 and 25.
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 57082 Hwy. #207.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 57082 Hwy. #207.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 57082 Hwy. #207.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 57082 Hwy. #207 after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 57082 Hwy. #207 after 48 months of service.

E7.59 Item No. 69

- (a) 10 Mbps TLS at 1450 Mountain Avenue shall be a remote 10 Mbps fibre TLS connection at City Clerks site 1450 Mountain Avenue to connect to both Head End connections (Item No. 5).
- (b) 100 Mbps TLS at 1450 Mountain Avenue shall be a remote 100 Mbps fibre TLS connection at City Clerks site 1450 Mountain Avenue to connect to both Head End connections (Item No. 5).
- (c) 1 Gbps TLS at 1450 Mountain Avenue shall be a remote 1 Gbps fibre TLS connection at City Clerks site 1450 Mountain Avenue to connect to both Head End connections (Item No. 5).
- (d) Build Required shall be whether service installation will require private property or in-building cabling installation at 1450 Mountain Avenue.
- (e) Installation charges shall be all one time charges to the City of Winnipeg to implement items TLS services to 1450 Mountain Avenue.
- (f) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 1450 Mountain Avenue.
- (g) Service Termination Charges after 12 months service shall be any costs to terminate service at 1450 Mountain Avenue after 12 months of service.
- (h) Service Termination Charges after 48 months service shall be any costs to terminate service at 1450 Mountain Avenue after 48 months of service.

E8 COPPER SERVICES

E8.1 Item No.62

- (a) 1 Gbps Head End Network connectivity at 510 Main St. shall be a fibre 1 Gbps TLS connection at 510 Main that provides connectivity to all of the Contractor's remote site connections from the City's primary data centre at 7th floor - 510 Main St. There shall be as many VLANs, interfaces or QinQ trunks as required for the remote sites connecting to this connection (priced per Gbps interface required per month). This item shall meet fiber based TLS specifications in E3.11.
- (b) 1 Gbps Head End Network connectivity at 700 Assiniboine Park Dr. shall be a fibre 1 Gbps TLS connection at 700 Assiniboine Park Drive that provides connectivity to all of the Contractor's remote site connections from the City's alternate data centre at Room 132, 700 Assiniboine Park Drive. There shall be as many VLANs, interfaces or QinQ trunks as required for the remote sites connecting to this connection (priced per Gbps interface required per month). This item shall meet fiber based TLS specifications in E3.11.
- (c) Incremental cost for 1 Gbps head end network connectivity per site shall be the incremental cost to add 1 Gbps to connection specified in E8.1(a) or E8.1(b).
- (d) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to Head End at 510 Main St.
- (e) Build Required at 510 Main Street shall be whether service installation will require private property or in-building cabling installation.
- (f) Build Required at 700 Assiniboine Park Drive shall be whether service installation will require private property or in-building cabling installation.
- (g) Installation charges shall be all one time charges to the City of Winnipeg to implement E8.1(a) and E8.1(b).
- (h) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to Head End at 700 Assiniboine Park Dr.
- (i) Service Termination Charges after 12 months service shall be any costs to terminate Head End Connectivity services at 510 Main or 700 Assiniboine Park Drive after 12 months of service.
- (j) Service Termination Charges after 48 months service shall be any costs to terminate Head End Connectivity services at 510 Main or 700 Assiniboine Park Drive after 48 months of service.

E8.2 Item No. 63

- (a) 5 Mbps TLS at 781 Crescent Drive shall be a remote minimum 5 Mbps copper TLS connection at Golf Services site 781 Crescent Drive to connect to both Head End connections (Item No. 62).

- (b) 10 Mbps TLS at 781 Crescent Drive shall be a remote minimum 10 Mbps copper TLS connection at Golf Services site 781 Crescent Drive to connect to both Head End connections (Item No. 62).
- (c) Build Required shall be whether service installation will require private property or in-building cabling installation at 781 Crescent Drive.
- (d) Installation charges shall be all one time charges to the City of Winnipeg to implement 5 Mbps TLS or 10 Mbps TLS.
- (e) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 781 Crescent Drive.
- (f) Service Termination Charges after 12 months service shall be any costs to terminate service at 781 Crescent Drive after 12 months of service.
- (g) Service Termination Charges after 48 months service shall be any costs to terminate service at 781 Crescent Drive after 48 months of service.

E8.3 Item No. 64

- (a) 5 Mbps TLS at 10 Des Meurons Street shall be a remote minimum 5 Mbps copper TLS connection at Golf Services site 10 Des Meurons Street to connect to both Head End connections (Item No. 62).
- (b) 10 Mbps TLS at 10 Des Meurons Street shall be a remote minimum 10 Mbps copper TLS connection at Golf Services site 10 Des Meurons Street to connect to both Head End connections (Item No. 62).
- (c) Build Required shall be whether service installation will require private property or in-building cabling installation at 10 Des Meurons Street.
- (d) Installation charges shall be all one time charges to the City of Winnipeg to implement 5 Mbps TLS or 10 Mbps TLS.
- (e) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 10 Des Meurons Street.
- (f) Service Termination Charges after 12 months service shall be any costs to terminate service at 10 Des Meurons Street after 12 months of service.
- (g) Service Termination Charges after 48 months service shall be any costs to terminate service at 10 Des Meurons Street after 48 months of service.

E8.4 Item No. 65

- (a) 5 Mbps TLS at 2021 Main Street shall be a remote minimum 5 Mbps copper TLS connection at Golf Services site 2021 Main Street to connect to both Head End connections (Item No. 62).
- (b) 10 Mbps TLS at 2021 Main Street shall be a remote minimum 10 Mbps copper TLS connection at Golf Services site 2021 Main Street to connect to both Head End connections (Item No. 62).
- (c) Build Required shall be whether service installation will require private property or in-building cabling installation at 2021 Main Street.
- (d) Installation charges shall be all one time charges to the City of Winnipeg to implement item 5 Mbps TLS or 10 Mbps TLS.
- (e) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 2021 Main Street.
- (f) Service Termination Charges after 12 months service shall be any costs to terminate service at 2021 Main Street after 12 months of service.
- (g) Service Termination Charges after 48 months service shall be any costs to terminate service at 2021 Main Street after 48 months of service.

E8.5 Item No. 66

- (a) 5 Mbps TLS at 266 Graham Avenue shall be a remote minimum 5 Mbps copper TLS connection at Public Works site 266 Graham Avenue to connect to both Head End connections (Item No. 62).
- (b) 10 Mbps TLS at 266 Graham Avenue shall be a remote minimum 10 Mbps copper TLS connection at Public Works site 266 Graham Avenue to connect to both Head End connections (Item No. 62).

- (c) Build Required shall be whether service installation will require private property or in-building cabling installation at 266 Graham Avenue
- (d) Installation charges shall be all one time charges to the City of Winnipeg to implement 5 Mbps TLS or 10 Mbps TLS.
- (e) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 266 Graham Avenue.
- (f) Service Termination Charges after 12 months service shall be any costs to terminate service at 266 Graham Avenue after 12 months of service.
- (g) Service Termination Charges after 48 months service shall be any costs to terminate service at 266 Graham Avenue after 48 months of service.

E8.6 Item No. 67

- (a) 5 Mbps TLS at 75 Martha Street shall be a remote minimum 5 Mbps copper TLS connection at Winnipeg Fire Paramedic site 75 Martha Street to connect to both Head End connections (Item No. 62).
- (b) 10 Mbps TLS at 75 Martha Street shall be a remote minimum 10 Mbps copper TLS connection at Winnipeg Fire Paramedic site 75 Martha Street to connect to both Head End connections (Item No. 62).
- (c) Build Required shall be whether service installation will require private property or in-building cabling installation at 75 Martha Street.
- (d) Installation charges shall be all one time charges to the City of Winnipeg to implement 5 Mbps TLS or 10 Mbps TLS.
- (e) QoS for VoIP traffic shall be pricing for QoS services as specified in E3.11(e) as required by the City to be applied to connection at 75 Martha Street.
- (f) Service Termination Charges after 12 months service shall be any costs to terminate service at 75 Martha Street after 12 months of service.
- (g) Service Termination Charges after 48 months service shall be any costs to terminate service at 75 Martha Street after 48 months of service.

PART F – SECURITY CLEARANCE

Revise: F1.15 to F1.20 to read:

- F1.15 The City will conduct a Level Two Security Clearance Check, for any individual proposed to perform Work under the Contract at **Winnipeg Police Service facilities**.
- F1.16 The Contractor shall provide the Contract Administrator with a list of individuals proposed to perform Work under the Contract at Winnipeg Police Service facilities:
- (a) within five (5) Business Days of the Award of Contract; or
 - (b) in the case of additional or replacement individuals during the term of the Contract, at least thirty (30) Calendar Days before each individual is proposed to commence Work at Winnipeg Police Service facilities.
- F1.17 Each individual proposed to perform Work under the Contract at Winnipeg Police Service facilities shall provide:
- (a) A list of names (including maiden names), addresses, dates of birth, and telephone numbers and occupations of all immediate family members (including parents) and their spouses/common law. Include your spouse/common law boyfriends, girlfriends and their family members. This includes stepbrothers, stepsisters, half-brothers and half-sisters. This list should be typed in the following format:

John James SMITH	Dob: 45 Aug 24 (father)
123 Anywhere Street	555-555-5555
Winnipeg, Manitoba	
 - (b) A list of names, dates of birth, addresses and telephone numbers and occupations of at least four (4) of your closest friends. This list should be typed in the following format:

John James SMITH	Dob: 45 Aug 24 (father)
123 Anywhere Street	555-555-5555

Winnipeg, Manitoba

- (c) The name of the immediate supervisor title or position within their organization, and telephone number, mailing address and email address.
- (d) A list of all past addresses.
- (e) Photocopies to two valid pieces of identification:
 - (i) valid photo driver's license,
 - (ii) valid passport or,
 - (iii) birth certificate.
- (f) A completed Form P-608: Security Clearance Check authorization form. Form P-608 must be signed and dated.
 - (i) Signature of Witness shall be signed by the contact person stated on Paragraph 3 Form A: Bid. Each individual shall submit the required information and form to the Winnipeg Police Service Division 30 Clerk at Main Floor, 245 Smith Street:
- (g) within five (5) Business Days of the Award of Contract; or
- (h) in the case of an additional or replacement individual during the term of the Contract, at least thirty (30) Calendar Days before the individual is proposed to commence Work at Winnipeg Police Service facilities.

F1.18 Any individual for whom a satisfactory Level Two Security Clearance is not obtained will not be permitted to perform any Work within Winnipeg Police Service facilities.

F1.19 Any satisfactory Security Clearance obtained thereby will be deemed valid for one (1) year from the date of clearance, subject to a repeated Security Clearance Check as hereinafter specified.

- (a) Each individual doing Work in a Winnipeg Police Service Facility shall provide photo identification upon entry, in order that their Level Two security clearance can be verified.

F1.20 Notwithstanding the foregoing, at any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require a further Security Clearance Check. Any individual who fails to obtain a satisfactory Security Clearance Check as a result of a repeated Security Clearance Check will not be permitted to continue to perform Work under the Contract at Winnipeg Police Service Facilities.

F1.21 Any individual who fails to obtain a satisfactory Security Clearance Check may request reconsideration by writing to:

Winnipeg Police Service
Division 30 Services
Attn: Service Security Officer
245 Smith Street
Winnipeg MB R3C 0R6



WINNIPEG POLICE SERVICE

DIVISION 30 SERVICES

SECURITY CHECK INFORMATION

*****APPLICATIONS WILL NOT BE CONSIDERED UNLESS THEY ARE COMPLETED IN FULL AND LEGIBLE*****

Please provide the following information in the following format:

Part 1 - A list of names (including maiden names), addresses, dates of birth, phone numbers and occupations of all immediate family members (including parents) and their spouses/common law. Include your spouse/common-law, boyfriend, girlfriend and their family members. This includes stepbrothers and sisters and half- brothers and sisters.

Part 2 -A list of names, dates of birth, addresses, phone numbers and occupations of at least four (4) of your closest friends.

Part 3 - The name of your immediate supervisor, their position within their organization, their phone number, mailing address and email address.

Part 4 - A list of **all** your past addresses.

Part 5 - Photocopies of **two (2) valid pieces of government issued identification:**

- **Primary (Photo) Identification must be one of the following:**
 - Driver's License
 - Passport
 - Permanent Resident Card
 - Aboriginal Status Card
 - Manitoba Public Insurance Identification Card
- **Secondary identification must be one of the following:**
 - Birth Certificate
 - Social Insurance Card
 - Provincial Health Card
 - Citizenship Card
 - Firearms License
 - Immigration Papers
 - National Defense Card
 - Nexus Card
 - FAST CARD from Canada Border Services Agency

Part 6 - Security Check/Clearance form P-608. Must be signed and dated.

All security clearances expire after a period of one (1) year from date of clearance. It is the applicant's responsibility to contact the WPS Security Officer in Division 30 (wps-securityclearance@winnipeg.ca) should the applicant wish to renew their security clearance.

PART 1 - COMPLETE LIST OF ALL IMMEDIATE FAMILY MEMBERS

****Please continue on another piece of paper if 15 spaces are not enough for ALL immediate family members.**

	Name Surname/Given (Relationship)	Date of Birth YY / MM / DD	Address	Phone Number	Occupation / Employer
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					

15.					
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PART 2 - COMPLETE LIST OF AT LEAST 4 FRIENDS

	Name Surname/Given	Date of Birth YY / MM / DD	Address	Phone Number	Occupation / Employer
1.					
2.					
3.					
4.					
5.					

PART 3 – SUPERVISOR INFORMATION

	Name Surname/Given	Date of Birth YY / MM / DD	Business Address	Email address and contact phone numbers	Occupation / Title
1.					

PART 4 - COMPLETE LIST OF YOUR PAST ADDRESSES

	Address
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

PART 5 - Photocopies of two pieces of the following identification – valid photo drivers' license, valid passport, birth certificate.

PART 6 – Security Check/Clearance form P-608.

QUESTIONS AND ANSWERS IN PROPONENT'S CONFERENCE

- Q1 For E3.4, what constitutes a conduit? There are multiple options available such as EMT, cable trays, raceways, pathways or FT4-rated cabling. Does the answer meet or does it exceed electrical code?
- A1 The conduit and installation must meet current electrical code and the City's Municipal Accommodation group who manages most City buildings has the following recommendations below. Note that Transit and Water & Waste sites may have some additional requirements unique to their environment.
- Inside the building, EMT conduit is recommended for the entrance cable up to the first wiring rack to provide cable protection against damage. EMT conduit to be identified with mylar labels at regular intervals for service identification and to facilitate future tracing. On the outside of the building above grade, use rigid metal conduit where subject to potential damage. Exterior conduit and boxes/fittings to be metallic and water-tight. Penetrations below grade into a basement or crawlspace to be installed with a permanent, maintenance-free water-tight system such as "LINK-SEAL". All conduit to be securely fastened to the building structure and run parallel to the building structure.
- Use of cable trays isn't recommended for several reasons. Cable trays provide very limited protection from cable damage. It is unlikely that existing cable trays are properly sealed at fire and smoke separations. It is very likely the Authority Under Jurisdiction (Electrical Inspector) will force upgrading the existing cable tray installations if the new cable is installed in it to meet current code.
- Q2 For E3.4, what are the end points for that conduit? IE from the property line, through the building entry point and within the building to the rack?
- A2 The contractor's cabling from the property line to the wiring rack shall be protected from damage. Refer to answer above for additional details on the conduit to protect the cabling.
- Q3 For E3.4, if there is installed service in the building already, are they required to re-do installations to meet them or are they considered grandfathered?
- A3 Existing installed cabling do not require a new electrical permit.
- New cabling installations require a new electrical permit for each building address. The Authority Having Jurisdiction (Electrical Inspector) will also enforce the Building Code where the cable/conduit penetrates the building envelope, fire and smoke separations.
- Q4 For E3.1, what format and detail are provided by the City building drawings?
- A4 City building drawings and floor plans are provided in PDF format.
- Q5 Depending on answer to 4, can those drawings be used as a base for the Contractor to provide the as-built drawings requested in E3.7? If not, what is provided to the Contractor to use as a base or must they create from scratch?
- A5 The Contractor's as-built drawings can use the City's drawings in PDF format as a base to add as-built cable routing, text description and photos to document the exact cable routing. E3.7 has been amended accordingly.
- Q6 For E3.2(b), what is the expected scope of work for the Contractor if asbestos abatement is required – remediating the immediate areas of concern or beyond that to include relocating staff or loss of productivity costs?
- A6 The City will be responsible for any asbestos remediation required during installation. E3.2 and E3.3 has been amended accordingly.
- Q7 For E3.2(a), can you clarify what landscaping remediation is required?

- A7 Yes, the soft and hard landscaping to be restored to the original condition. Depending on the season, options may include re-seeding or new sod. For soft landscaping, maintenance must be included (watering, etc.) until seed/sod growth is such that it will not die. If there is settlement of the soft and hard landscaping over a 1 year period, contractor to make the necessary repairs - requires an inspection in the 11th month after contract completion. Refer to Materials Management site for additional details <http://www.winnipeg.ca/matmgmt/spec/default.stm>
- Q8 For E3.2(b), if there are existing cabling trays or conduits, can the Contractor use them for their cabling?
- A8 If the City owns or manages those conduits/cabling trays and if there is sufficient capacity, the Contractor can use them for their cabling. If an existing conduit is used, it should be identified with mylar labels.
- Q9 Clarify what is meant by 'demark room'.
- A9 The demark room is the room where the City's network devices are located and where the Contractor's CPE shall be installed. There is a designated room per site for the demark room with a rack provided by the City for the CPE to be mounted.
- Q10 Is the \$5,000.00 listed in B26.4.1 an internal to the City cost?
- A10 Yes, It is an internal cost.
- Q11 Is content-filtering a bolt-on service?
- A11 Yes, the City wants to know what content filtering options are available for Internet Gateway services.
- Q12 Are security clearances required for Contractors working off-site on WPS sites?
- A12 The Contractor staff that have access to WPS information including drawings shall have a Level 2 WPS Security Clearance which are renewable annually. The storage of the information shall be secured so that only Contractor staff with the appropriate clearance can access the information.
- Contractor staff performing on-site work at WPS sites shall require a Level 2 WPS Security Clearance which is renewable annually. Access to sensitive areas such as the wiring close shall require WPS to escort the Contractor staff performing the work.
- Q13 How are the incremental increases applied for Internet Gateway services?
- A13 Based on the requested incremental increase, the quantity of the incremental increase specified in Form B is applied to the existing Internet Gateway service. For example, if the existing Internet Gateway service is 250 Mbps and 20 Mbps of incremental increase is requested, quantity 2 of 10 Mbps incremental increase is applied for a total of 270 Mbps.