



721-2024 ADDENDUM 4

NEWPCC Primary Clarification Upgrade Project

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE
BID/PROPOSAL**

ISSUED: February 19, 2025
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID/PROPOSAL AND SHALL FORM
A PART OF THE CONTRACT DOCUMENTS**

Template Version: Add 2024-02-01

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid/Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid/Proposal may render your Bid/Proposal non-responsive.

PART E - SPECIFICATIONS

Revise: E1.4 to read: The following are applicable to the Work:

SECTION NO.	TITLE	NO. OF PAGES
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01 11 00	Summary of Work	5
01 14 00	Work Restrictions	2
01 25 00	Substitution Procedures	6
01 29 83	Payment Procedures for Testing Services	2
01 31 19	Project Meetings	4
01 32 16.07	Progress Schedule	4
01 32 33	Construction Photographs	3
01 33 00	Submittal Procedures	13
01 35 29	Safety Procedures	3
01 35 43	Environmental Procedures	6
01 40 00	Measurement and Payment	9
01 41 00	Regulatory Requirements	1
01 45 00	Quality Control	5
01 51 00	Temporary Utilities	3
01 52 00	Construction Facilities	8
01 56 00	Temporary Barriers and Enclosures	2
01 60 10	Materials and Equipment	3
01 61 00	Common Product Requirements	4
01 65 00	Equipment Installation	7
01 65 00.05	Installation of Pre-Purchased Equipment	6
01 71 00	Examination and Preparation	2
01 73 00	Execution	2
01 74 11	Cleaning	2
01 74 19	Construction Waste Management Disposal	3

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01 78 23	Operation and Maintenance Data	11
01 79 00	Demonstration and Training	9
01 91 31	Commissioning Plan	18
	DIVISION 02	
02 41 13	Selective Site Demotion	4
02 61 00.01	Soil Remediation	5
02 81 01	Hazardous Materials	5
02 82 11	Asbestos Abatement – Type 1	6
02 82 12	Asbestos Abatement – Type 2	7
02 82 13	Asbestos Abatement – Type 3	18
	DIVISION 03	
03 10 00	Concrete Forming and Accessories	5
03 15 00	Concrete Accessories	4
03 20 00	Concrete Reinforcing	3
03 30 00	Cast-In-Place Concrete	9
03 41 01	Hollow Core Precast/Prestressed Concrete	5
03 53 00	Concrete Topping	3
	DIVISION 04	
04 05 00	Common Work Results For Masonry	4
04 05 12	Masonry Mortaring	2
04 05 19	Masonry Reinforcement, Connectors and Accessories	5
04 22 00	Concrete Unit Masonry	6
	DIVISION 05	
05 12 23	Structural Steel for Buildings	7
05 50 00	Metal Fabrications	5
05 58 01	Aluminum Fabrications	4
	DIVISION 06	
06 10 00	Rough Carpentry	2
06 60 00	Plastic Fabrications	2
	DIVISION 07	
07 11 00	Dampproofing	3
07 21 00	Thermal Insulation and Below Slab Vapour Barrier	2
07 21 20	Rigid Insulation and Air/Vapour Barrier	3
07 21 50	Sprayed Polyurethane Foam Insulation	4
07 42 13.23	Metal Composite Material Wall Panels	11
07 46 00	Sheet Metal Wall Cladding	3
07 52 00	Modified Bituminous Membrane Roofing	9
07 62 00	Sheet Metal Flashing and Trim	2
07 72 33	Roof Hatches	3
07 84 00	Firestopping	3
07 92 00	Joint Sealants	3
	DIVISION 08	
08 11 00	Metal Doors and Frames	5
08 33 50	Coiling Doors	6
08 51 13	Aluminum Windows	3

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08 71 00	Door Hardware	5
08 80 00	Glazing	4
	DIVISION 09	
09 29 00	Gypsum Board	2
09 91 00	Painting	7
09 91 10	Factory-Applied Coatings	3
09 91 13	Field-Applied Maintenance and Corrosion Protection Coatings	8
09 97 23	Concrete and Masonry Coatings	6
	DIVISION 10	
10 14 13	Identification	5
10 43 00	Exterior Signage	1
10 44 00	Interior Signage	1
	DIVISION 21	
21 05 01	Common Work Results for Mechanical	17
21 05 50	Seismic Restraint Systems	10
21 24 00	Portable Fire Extinguishers	2
	DIVISION 22	
22 10 10	Plumbing Pumps	4
22 11 16	Domestic Water Piping	8
22 13 18	Drainage Waste and Vent Piping	4
22 15 00	Compressed Air Systems	6
22 42 01	Plumbing Specialties and Accessories	8
22 42 03	Commercial Plumbing Fixtures	6
	DIVISION 23	
23 05 05	Installation of Pipework	6
23 05 17	Pipe Welding	4
23 05 17.01	Sleeves and Sleeve Seals for HVAC Piping	6
23 05 19.01	Thermometers and Pressure Gauge - Piping Systems	2
23 05 23.01	Valves - Bronze	4
23 05 23.02	Valves - Cast Iron	5
23 05 29	Hangers and Supports for Piping and Equipment	7
23 05 48	Vibration Controls for HVAC Piping & Equipment	4
23 05 53	Mechanical Identification	7
23 05 93.10	Testing	5
23 05 93.20	Testing, Adjusting and Balancing for HVAC	17
23 07 13	Duct Insulation	6
23 07 15	Thermal Insulation for Piping	8
23 08 01	Performance Verification Mechanical Piping Systems	3
23 08 02	Cleaning and Start-Up of Mechanical Piping Systems	4
23 09 23.11	Control Valves	15
23 09 33	Electric and Electronic Control System for HVAC	9
23 09 93.11	Sequence of Operations for HVAC DDC	9
23 21 13.02	Hydronic Systems: Steel	5
23 21 14	Hydronic Specialties	5
23 21 23	Hydronic Pumps	6
23 23 00	Refrigerant Piping	4

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23 31 13	Metal Ducts - Low Pressure to 500 PA	6
23 33 00	Air Duct Accessories	5
23 33 14	Dampers - Balancing	4
23 33 15	Dampers - Control	6
23 33 16	Dampers - Fire and Smoke	4
23 34 00	Fans and Accessories	5
23 37 13	Diffusers, Registers, and Grilles	4
23 37 20	Louvers, Intakes, and Vents	3
23 57 00	Heat Exchangers for HVAC	4
23 72 00	Air-to-Air Energy Recovery Equipment	12
23 73 11	Air Handling and Condensing Units - Split	9
23 74 00	Packaged Make-up Air Units	7
23 82 39	Hydronic Heating Units	6
	DIVISION 26	
26 05 00	Common Work Results - Electrical	17
26 05 20	Wire and Box Connectors (0-1000 V)	4
26 05 21	Wire and Cables (0-1000 V)	22
26 05 28	Grounding	13
26 05 29	Hangers and Supports for Electrical Systems	8
26 05 31	Splitters, Junction, Pull Boxes and Cabinets	5
26 05 32	Outlet Boxes, Conduit Boxes and Fittings	6
26 05 34	Conduits, Conduit Fastenings, and Conduit Fittings	18
26 05 36	Cable Trays for Electrical Systems	12
26 05 44	Installation of Cables in Trenches and Ducts	7
26 05 80	Fractional Horsepower Motors	3
26 05 81	Motors - 0.746 kW to 149 kW	11
26 05 95	Heat Tracing	17
26 08 05	Acceptance Testing	35
26 12 16	Dry Type Transformers up to 600 V Primary	8
26 12 19	Pad-Mounted Medium Voltage (MV) Transformers	20
26 24 17	Panelboards – Breaker Type	4
26 24 19	Motor Control Centres	16
26 27 26	Wiring Devices	4
26 28 16.02	Moulded Case Circuit Breakers	2
26 28 23	Disconnect Switches Fused and Non-Fused up to 600 V Primary	3
26 29 03	Control Devices	3
26 29 10	Motor Starters to 600 V	4
26 29 23	Variable Frequency Drives	6
26 41 13	Lightning Protection for Structures	7
26 50 00	Lighting	4
26 52 13.13	Emergency Lighting	4
26 52 13.16	Exit Signs	2
	DIVISION 31	
31 09 16.29	Pile Tests - Dynamic	4
31 23 19	Dewatering of Excavations	3
31 23 23	Excavation and Backfill for Structures	5

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31 50 00	Excavation Support Systems	8
31 62 16.16	Steel H Piles	8
	DIVISION 32	
32 11 13	Earth Work	2
32 11 16	Sub-Base Material	1
32 11 23	Base Material	1
32 11 26	Asphaltic Concrete Paving	2
32 13 13	Portland Cement Concrete Paving	2
32 16 00	Concrete Walks, Curbs, and Gutters	1
	DIVISION 33	
33 05 05	Excavation, Trenching, and Backfilling	2
32 42 11	Land Drainage Sewer	2
32 42 11.01	Manholes and Catchbasins	1
32 42 11.02	Adjustment of Existing Manhole / Catchbasin	1
33 44 00	Pressure Pipeline	8
	DIVISION 34	
34 78 33	Davit Crane	3
	DIVISION 40	
40 05 01	Common Work Results	4
40 05 13	Process Piping	13
40 05 13.01	Detailed Piping Specification	6
40 05 15	Process Pipe Joints and Equipment Connections	8
40 05 20	Process Pipe Guides and Anchors	4
40 05 23	Process Valves	7
40 05 24	Detailed Process Valve Specification Sheets	13
40 05 25	Valve Schedule	6
40 05 30	Process Pipe Expansion Joints	4
40 05 60	Process Pipeline Appurtenances	5
40 05 80	Process Pipe Hangers and Supports	11
40 23 13.03	Electric Motor Actuators and Appurtenances	11
40 23 19	Stainless Steel Pipe and Fittings	7
40 42 00	Process Piping and Equipment Insulation	4
40 61 93	IO List	1
40 61 98	Instrument Index	1
40 70 03	Process Taps and Primary Elements	1
40 90 00	Instrumentation and Control for Process Systems	15
40 90 01	Field Services	2
40 90 21	Automation Wires and Cables	14
40 91 01	Automation – Process Measurement Devices	20
40 94 43	Programmable Logic Controllers and Remote IO	6
40 95 13	Control Panels	10
40 95 34	Control System Servers and Workstations	7
40 95 53	Network Equipment	10
40 95 80	Fibre Optic Network	18
40 96 00	Applications Software	13
40 99 91	FAT and SIFT Procedures	8

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40 99 92	Automation Testing and Commissioning	7
40 99 93	Maintenance and Support	2
	DIVISION 41	
41 12 13.37	Bin Covers	14
41 22 13	Overhead and Monorail Trolleys	8
41 24 40	Steel Platform Truck Weigh Scales Equipment and Component Numbers	6
	DIVISION 43	
43 20 10	Process Pumps - General Requirements	7
43 21 00	Process Equipment Installation	5
43 21 30	Chemical Supply	2
43 21 39	Submersible Pumps	7
43 21 39A	Equipment Data Sheets	1
43 23 13.18	Horizontal Dry Pit Chopper Pump	7
43 23 13.18A	Equipment Data Sheets	2
43 23 13.19	Pedestal Dry Pit Chopper Pump	6
43 23 13.19A	Equipment Data Sheet	2
	DIVISION 44	
44 31 00	Skid Mounted Carbon Adsorption Odour Control System	18
44 31 10	Odour Control Ductwork and Accessories	10
	DIVISION 46	
46 21 00	General Process Provisions	6

NMS SPECIFICATIONS

Section 01 32 16.07 Progress Schedule

Add: 1.4.1.13 **Twenty (20) working days to be included in project slack. Use of project slack will be approved by the Contract Administrator for unforeseen circumstances causing Contractor delay. General Conditions for twenty project slack days to be included in Form B: Prices Item 1. General Conditions.**

Section 01 32 33 Construction Photographs

Revise: 1.1.5 to read: Deliver to the City and Contract Administrator two electronic copies on **two individual USB Flash Drives**. Digital photographs shall have high quality resolution taken at a minimum with an 8 megapixel camera. Video recording shall be at a minimum 1080p HD video recording (30 fps or 60 fps). The Contract Administrator may direct the Contractor to obtain additional photographic records of structures and features within the Site limit.

Section 01 33 00 Submittal Procedures

Delete: 1.4.8.1 **Reinforcing steel.**

Add: 1.4.11.6 **If requested by the Contract Administrator, Shop Drawings returned "REVEIWED AS MODIFIED" or "MAKE NOTED CHANGES" will be resubmitted for information only with the noted changes/corrections made.**

Section 01 35 29 Safety Procedures

Add: 721-2024_Addendum_4_NMS Format Specification-Section_01_35_29

Section 01 35 43 Environmental Procedures

Revise: 1.3.7.8 The Contractor shall submit written incident reports to the Contract Administrator within 24 hours of any environmental incident or spill/release. The incident report shall identify the reporting organization, date, time, location, hazardous materials involved, source and persons or organizations notified. In addition, the report shall describe how the spill or release occurred, remedial action taken or planned, **timeline for completion of remedial actions taken or planned**, and actions necessary to prevent recurrence.

Section 01 40 00 Measurement and Payment

Revise: 1.6.3 to read: Prepare and submit to the Contract Administrator: a comprehensive list of items to be completed or corrected and apply for a review by the Contract Administrator to establish Substantial Performance of **the** Work or **Substantial Performance of a** designated portion of **the** Work when **the** Work is substantially performed, if permitted by lien legislation applicable to **the designated portion of the** Place of Work, which the City agrees to accept separately is substantially performed. Failure to include items on the list does not alter **the Contractor's** responsibility to complete the Construction Contract.

Section 01 45 00 Quality Control

Add: 1.11 **Plans**

- .1 Submit one (1) electronic copy of the inspection and testing plan to the Contract Administrator within eight (8) weeks after Contract Award.**
- .2 Provide copies to the Subcontractors of work being inspected or tested and to the manufacturer or fabricator of material being inspected or tested.**
- .3 The plan shall, at a minimum, include:**
 - .1 Date of issue.**
 - .2 Construction Contract name and number.**
 - .3 List of all required inspections and tests.**
 - .4 Reference standards or specification sections covering each inspection or test.**
 - .5 Overview of the methods to be used for each test.**
 - .6 Testing agency retained or responsible person for each test.**
 - .7 Acceptance criteria for each test.**

Section 01 51 00 Temporary Utilities

Revise: 1.6.1 to read: Provide temporary power during construction for temporary lighting and operating of power tools.

Revise: 1.6.2 to read: **The existing power supply may be utilized for power, provided that there are no operational impacts associated with the use of the power.**

- .1 Connect to existing power supply in accordance with Canadian Electrical Code.**
- .2 Electrical power and lighting systems installed under this Contract may be used for construction requirements provided that guarantees are not affected. Make good damage to electrical system cause by use under this Contract.**
- .3 Pay costs for installation, maintenance and removal.**

.4 Provide meter for temporary power and report usage as required by the City.

Section 01 78 00 Closeout Submittals

Add: 1.5.7 **Submit full as built drawing set in PDF format with Contractor's as built stamp in legible size at a reasonable location on each drawing indicating the name of the person stamping.**

Section 22 42 03 Commercial Plumbing Fixtures

Revise: 2.3.1.9 to read: Standard of acceptance: Haws Model 7360B-7460B **and Guardian G1750.**

Revise: 2.3.2.8 to read: Standard of acceptance: Haws Model 9201EW **and Guardian G6022 IT.**

Revise: 2.3.3.5 to read: Standard of acceptance: Haws Model 9001 **and Guardian AP275-205.**

Revise: 2.4.1.13 to read: Standard of acceptance: Haws Model 8300CRP – 8309CRP **and Guardian GC1909.**

Revise: 2.4.2.2 to read: Standard of acceptance: Haws Model SP178LG **and Guardian AP250-008G.**

Revise: 2.4.3.8 to read: Standard of acceptance: Haws Model 9201H **and Guardian G6042 IT.**

Revise: 2.4.4.5 to read: Standard of acceptance: Haws Model 9001 **and Guardian AP275-205.**

Section 40 05 13 Process Piping

Add: 2.6.7 **Confirm all structural concrete wall and floor penetrations required for pre-purchased equipment shop drawings provided in Appendix L – SD-01 Dewatering Press Package.**

DRAWINGS

Add: 721-2024_Addendum 4_Drawing 1-0101-ANET-A005-001