



291-2006 ADDENDUM 3

NORTH END WATER POLLUTION CONTROL CENTRE CENTRATE NUTRIENT TREATMENT – NITROGEN REMOVAL FACILITY

URGENT

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

ISSUED: July 13, 2006
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20050301

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

PART A – BID SUBMISSION

Replace: 291-2006 Bid Submission with 291-2006 Addendum 3 - Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

Form B(R2): Revise Items 2 and 4 to 10 inclusive

PART B – BIDDING PROCEDURES

Revise: B9.2.2 “and MRST,” to read “and MRST to be extra where applicable,”

PART D – SUPPLEMENTAL CONDITIONS

Replace: D14.1 “Working Day” with “Calendar Day”

Delete: D17

PART E – SPECIFICATIONS

Add: Decanter Supply Contract (For Information Only)

Add: Aeration Supply Contract (For Information Only)

Section 01010 Revise: Clause 1.1.2.2.1 to read: “Decanter systems Bid Opportunity 31-2006 available for download from The City of Winnipeg Materials Management Website at www.winnipeg.ca/matmgt”

Section 01010 Revise: Clause 1.1.2.2.2 to read: “Aeration diffuser systems Bid Opportunity 196-2006 available for download from The City of Winnipeg Materials Management Website at www.winnipeg.ca/matmgt”

Section 01400 Revise: Clause 1.3.1 “Canadian Government Specification Board” to read “Canadian General Standards Board”

Section 01650 Revise: Clause 3.3.2 to read: If so directed by the Contract Administrator, the Contractor shall arrange for the manufacturer’s representative to visit the Site to provide assistance during installation, all at no cost to the City.

- Section 01664 Revise: Clause 3.2.10 to read: Exam to show understanding of material provided.
- Section 01670 Revise: Clause 1.5.2 to read: The commissioning plan shall be reviewed prior to its implementation.
- Section 02220 Revise: Clause 3.3.4 "Excavate to noted limits and as required" to read "Excavate to noted limits of excavation plan and as required"
- Section 02315 Revise: Clause 3.1.6 to read: All excavated or disturbed areas are to be restored to a condition better than or equal to original. Restoration of boulevard areas will be with topsoil and seed.
- Section 02530 Revise Clause 1.2.1 to read: The following Sections and Specifications of the City of Winnipeg Standard Construction Specifications-latest edition are applicable to the Work:
- Section 02630 Revise Clause 1.2.1 to read: The following Sections and Specifications of the City of Winnipeg Standard Construction Specifications-latest edition are applicable to the Work:
- Section 03250 Revise: Clause 2.1.7 "CGSB 41-6P-35M polyvinyl chloride" to read "CGSB 41-GP-35M polyvinyl chloride material,"
- Section 07465 Revise: Clause 2.1 "Stee1 Cladding" to read "Steel Cladding"
- Section 07465 Revise: Clause 2.1.1 "Fabricated from ASTM A653" to read "Fabricated from 26 gauge ASTM A653"
- Section 07525 Revise: Clause 3.2.2.4 to read: Ensure torch welding applications correctly weld membrane to substrate regardless of working temperature and conditions.
- Section 07620 Revise: Clause 2.1.2 "colour as per schedule" to read "colour as selected by the Contract Administrator"
- Section 08100 Delete: Clause 2.3.5
- Section 08100 Delete: Clause 2.6
- Section 09730 Revise: Clause 1.4.1 "Contractor" to read "Installer"
- Section 09730 Revise: Clause 2.1.1 to read: Colour: Silver gray
- Section 09900 Delete: Clause 1.2.3
- Section 09900 Delete: Clause 1.2.4
- Section 09985 Revise: Clause 2.2 "City" to read "Contract Administrator"
- Section 11050 Delete: 1.10.1 "This warranty shall remain in effect for the maximum period of time allowed under Law."
- Section 11395 Revise: Clause 3.2.2 to read: Ensure that each mixer is installed and aligned, as required to provide satisfactory service. Mixers to be installed sufficiently high above the floor to accommodate the fine bubble aeration system.
- Section 11455A Revise: Acceptable Manufacturers: to read:
- .1 Aerzen (Design Standard)
 - .2 Kaeser
- Section 11820 Delete: Clause 1.4.2
- Section 11900 Revise: Clause 1.4 to read:
- 1.4 Warranty

- .1 The warranty shall be in accordance with GC:13 but for a period of two years. The Work performed by the Contractor shall be inspected by an independent inspector acceptable to the Contract Administrator.

Section 15010 Delete: Clause 1.16.4

Section 15010 Revise: Clause 1.23.1 to read: Select identification colours in accordance with the colour scheme as outlined in the following table:

Item	Colour	Colour Code
Potable Water	Sky Blue	SW 3021
Well Water Supply	Violet	SW 3022
Well Water Return	Violet	SW 3022
Flushing Water	Blue	SW 3023
Hot Water Supply	Green	SW 3024
Hot Water Return	Aqua Green	SW 3025
Glycol Supply	Medium Fuschia	SW 3026
Glycol Return	Light Fuschia	SW 3027
Rain Water Leaders	Grey	SW 3028
Primary Effluent	Mint Yellow	SW 3030
Primary Sludge	Charcoal Grey	SW 3031
Return Activated Sludge	Orange	SW 3032
Waste Activated Sludge	Yellow	SW 3033
Sludge Mixing System	Pumpkin	SW 3034
Scum/Degreasing	Blue-Grey	SW 3035
Process Drain	White	SW 3036
Mix Age Polymer Tanks	Med. Orange	SW 3040
Polymer Feed Tanks	Teal Blue	SW 3041
Dry Polymer Storage	Light Green	SW 3042
Liquid Polymer Storage	Medium Green	SW 3043
Sludge Feed/Transfer	Dark Yellow	SW 3044
Sludge Cake Line	Medium Yellow	SW 3045
Thin Sludge	Light Yellow	SW 3046
Centrate	Very Light Yellow	SW 3047
Sludge Cake Storage	Medium Yellow	SW 3045
Treated Centrate	Blue Grey	SW 3035
Sludge (Trucked)	Rich Tan	SW 3048
Sludge Cake Hopper	White	SW 3049
Sludge Cake Pump Drive	Dark Green	SW 3050
Ferric Chloride	Bright Yellow	SW 3063
Instrument Air	Forest Green	SW 3060
Process Air	Terrace Green	SW 3061
Oxygen	Purple	SW 3062
Chlorine	Bright Yellow	SW 3063
Natural Gas	Safety Yellow	SW 3064
Digester Gas	Red	SW 3065
Methanol	Bright Yellow	SW 3063
Soda Ash	Med. Orange	SW 3040
Duct Work	Warm Grey	SW 3070
Steel Pipe Supports	Ansi Light Grey	SW 3071
Bollards	Red	SW 3065
Exterior Pedestals/Panels	Lemon Yellow	SW 3071
Handrails (Painted)	Aluminum	B 59S2
Motors	Red	SW 3065
Motor Bases	Carmine Red	SW 3072
Valves/Pumps	Match conduit	
Valve Hand/Chainwheels	Red	SW 3065
Boilers	Heat Resistant Aluminum	B 59S3
Concrete/Blockwork	Platinum Grey	SW 4012
Note: SW = Sherwin Williams		

Section 15010 Delete: Clause 1.23.2

Section 15010 Delete: Clause 1.23.3

Section 15080 Revise: Clause 2.8.1 to read: All steel hanger rods, hangers and supports shall be galvanized.

Replace: Section 15301

Section 15410 Revise: Clause 1.2.2 to read: Provide water and drainage connections to equipment specified in other Sections of this Specification.

Section 15420 Revise: Clause 2.4.6.1 to read: Standard system requires 208-240/120 VAC, single phase, 3 wire and ground, 40 amp electrical supply.

Section 15420 Delete: Clause 2.4.7

Section 15420 Delete: Clause 2.4.8

Section 15801 Revise: Clause 2.2.4.1 to read: Insulate all exterior walls and roof with 100 mm thick rigid fibrous glass acoustic insulation, 48kg/m³ (3 lb/cuft) density. Line interior of all panels with 22 gauge perforated stainless steel liner.

Section 15801 Revise: Clause 2.4.1 "Architect" to read "Contract Administrator"

Section 15801 Revise: Clause 2.7.4 "Structural Engineer" to read "Contract Administrator"

Section 15801 Revise: Clause 2.10.1 to read: Enclose coils in coil section with headers and U-bends fully contained within the casing.

Section 15855 Revise: Clause 2.2.3 "Architect" to read "Contract Administrator"

Section 15870 Revise: Clause 1.1.1 to read: Division 16

Section 15940 Revise: Clause 4.2.3 to read: The exhaust fan room is kept heated by an electric unit heater.

Section 15940 Revise: Clause 4.3.1 "The sampling fan room is cooled by outside air" to read "The sampling fan room will be cooled by outside air or from C550 SF.

Section 15940 Delete: Clause 4.6

Section 15940 Delete: Clause 4.7

Section 15999 Revise: Clause 1.2 Accessories and Remarks: all Tags to read: 3, 4, 5, 6, 7, 8, 9, 10

Section 15999 Revise: Clause 1.2 "C528-EF" to read "C540-EF"

Section 15999 Revise: Clause 1.2 C530-EF Control: "On/Off" to read: "VFD"

Section 15999 Add: Clause 1.2 Accessories: 10. Provide fan complete with VFD (in accordance with 16815)

Section 15999 Revise: Clause 1.8 Pump Motor Power, kW (HP): All Tags to read: 2.5 (3.5)

Section 16010 Add: Clause 1.2.6 Division 13

Section 16010 Add: Clause 1.2.7 Division 14

Section 16010 Revise: Clause 1.5.1 "Within 30 days of award of Contract, the Contractor shall" to read "The Contractor shall"

Section 16010 Revise: Clause 1.6.2 "AutoCad Release 2000" to read "AutoCad"

Section 16010 Delete: Clause 1.7.2

- Section 16010 Delete: Clause 1.7.3.8
- Section 16010 Delete: Clause 1.9
- Section 16010 Delete: Clause 1.10
- Section 16010 Revise: Clause 2.5.2 to read: The warranty period shall not begin until the date of Total Performance of the Work.
- Section 16010 Revise: Clause 2.6.2 to read: Provide documentary proof of the Date of Compliance prior to Substantial Performance listing all equipment and certifying their compliance.
- Section 16010 Delete: Clause 3.5
- Section 16010 Revise: Clause 3.13.5 to read: Failure to comply with the above requirements shall be remedied at the Contractors expense.
- Section 16015 Revise: Clause 2.1.1 to read: The Administrative Sections under Division 1 shall be considered to be part of these Specifications.
- Section 16106 Revise: Clause 3.1.1 to read: Provide 150 mm of fine sand above and below cables. Cables shall be laid in trench and shall maintain 75 mm clearance between cables and the edge of the trench. Do not pull cable into trench.
- Section 16106 Revise: Clause 3.1.7 to read: After sand protective cover is in place, install continuous row of concrete patio slabs, as indicated, to cover the entire length of the trench.
- Section 16107 Delete: Clause 1.2.3
- Section 16015 Revise: Clause 2.5.6 "Bid Documents" to read "Contract Documents"
- Section 16114 Revise: Clause 1.3.2 to read: Indicate various types of cabletroughs.
- Section 16120 Revise: Clause 1.1.1 to read: Complete supply, installation, and termination of power cables rated at 15,000 Volts and less.
- Section 16435 Revise: Clause 2.1.8 to read: Analyzer shall be complete with Ethernet connection to communicate with the DCS.
- Section 16435 Delete: Clause 2.2
- Section 16480 Revise: Clause 2.5.8 to read: Warranty: the manufacturer shall provide a five year warranty on the TVSS filter, a one year warranty on the panelboard and circuit breakers, and a one year warranty on individual equipment plug-in units.
- Section 16536 Revise: Clause 1.4.1 to read: For batteries, the 12 month warranty period prescribed in the General Conditions "C" is extended to 120 months, with a no-charge replacement during the first five years and a pro-rated charged on the second five years.
- Section 16721 Delete: Clause 3.4.1.5
- Section 16725 Revise: Clause 3.1.2 to read: Minimum wire size No. 18 AWG for all hardware. Data link cables to be in accordance with manufacturer's recommendations. Terminate system wiring in System Marshalling Panel. Refer to Division 17 for detail of copper to fibre conversion and extension.
- Section 16725 Revise: Clause 3.1.8 to read: Security equipment and CCTV camera units to be connected to the new System Marshalling Panel for conversion from copper wire to fibre optics. The fibre optics shall be installed from the System Marshalling Panel to existing main related monitoring equipment located in the Administration Building Server Room. Final connections at this point shall be determined on-site.

- Section 16815 Revise: Clause 1.2.3 to read: Division 16 shall install, wire and connect Process and HVAC VFD controllers as indicated on the drawings.
- Section 16815 Revise: Clause 1.4.2.6 "The Contractor shall allow in his bid a lump some of \$80,000 to cover the cost of additional filtering equipment, if the additional filtering is required." to read "Additional work will be as authorized by the Contract Administrator in accordance with GC:7 Changes in Work."
- Section 16815 Revise: Clause 1.5.1 to read: The VFD supplier shall provide warranty coverage for a period of two years.
- Section 16815 Revise: Clause 1.5.3 to read: The Contractor shall indicate the level of local support detailing response time if a piece of equipment should happen to fail or malfunction. Details are to include estimated replacement part delivery times, as well as nearest parts depot location and a contact name and phone number.
- Section 16815 Revise: Clause 2.1.8.13 "longlead filter package components in their bid submission, and the" to read "longlead filter package components and the"
- Section 16950 Add: Clause 1.1.2 Process: Division 11, 13 & 14
- Section 16980 Revise: Clause 1.7.1 to read: Except where otherwise specified, perform all testing, adjusting, balancing, and related requirements specified herein prior to Total Performance of the Work.
- Section 16980 Revise: Clause 3.5.3.1 to read: Submit for review, Shop Drawings of all items specified in this Section in accordance with Section 01300.
- Section 16980 Revise: Clause 3.5.3.2 to read: Provide maintenance manuals for all items specified in this Section, in accordance with 01735 and 01300.
- Section 16980 Revise: Clause 3.7.1.1.2 to read: 4160 Volt to 600 Volt Oil Filled Transformer.
- Section 16980 Revise: Clause 3.7.1.1.3 to read: 600V Switchgear.
- Section 16980 Delete: Clause 3.7.3.1
- Section 17010 Revise: Clause 1.1.5 to read: Provide documentation in accordance with Section 01300.
- Section 17010 Delete: Clause 1.1.6
- Section 17010 Revise: Clause 1.1.10.2 "B10.2" to read "B10.3"
- Section 17010 Revise: Clause 1.4.3.1 "As-built" to read "As-constructed"
- Section 17010 Revise: Clause 2.1.4.5 to read "Refer to Part C, Part D, and Division 1 for additional information on substitutions.
- Section 17010 Revise: Clause 2.1.8.2 "Substantial Completion" to read "Substantial Performance"
- Section 17500 Revise: Clause 2.1.2 "logic configuration shall be" to read "logic configuration will be"
- Section 17500 Revise: Clause 2.2.1 to read: Cooperate and coordinate activities with other contractors, City staff, and Contract Administrator to facilitate installation, testing, validation, and commissioning of the Nitrogen Removal Facility.

DRAWINGS

- Replace: Drawing C6-01-R0 with Drawing C6-01-R1
Drawing C8-01-R0 with Drawing C8-01-R1
Drawing A1-03-R0 with Drawing A1-03-R1

Drawing A1-04-R0 with Drawing A1-04-R1
Drawing A2-01-R0 with Drawing A2-01-R1
Drawing A3-01-R0 with Drawing A3-01-R1
Drawing A3-02-R0 with Drawing A3-02-R1
Drawing P6-05-R0 with Drawing P6-05-R1
Drawing P9-01-R0 with Drawing P9-01-R1
Drawing P13-01-R0 with Drawing P13-01-R1
Drawing P14-02-R0 with Drawing P14-02-R1
Drawing P14-03-R0 with Drawing P14-03-R1
Drawing P15-01-R0 with Drawing P15-01-R1
Drawing P16-01-R0 with Drawing P16-01-R1
Drawing P17-01-R0 with Drawing P17-01-R1
Drawing P17-03-R0 with Drawing P17-03-R1
Drawing P18-01-R0 with Drawing P18-01-R1
Drawing P18-02-R0 with Drawing P18-02-R1
Drawing P19-01-R0 with Drawing P19-01-R1
Drawing P19-06-R0 with Drawing P19-06-R1
Drawing M0-01-R0 with Drawing M0-01-R1
Drawing M1-01-R0 with Drawing M1-01-R1
Drawing M1-02-R0 with Drawing M1-02-R1
Drawing M1-04-R0 with Drawing M1-04-R1
Drawing M2-01-R0 with Drawing M2-01-R1
Drawing M4-04-R0 with Drawing M4-04-R1
Drawing E1-02-R0 with Drawing E1-02-R1
Drawing E2-01-R0 with Drawing E2-01-R1
Drawing E2-02-R0 with Drawing E2-02-R1
Drawing E2-03-R0 with Drawing E2-03-R1
Drawing E2-04-R0 with Drawing E2-04-R1
Drawing E2-05-R0 with Drawing E2-05-R1
Drawing E2-06-R0 with Drawing E2-06-R1
Drawing E2-08-R0 with Drawing E2-08-R1
Drawing E3-01-R0 with Drawing E3-01-R1

Drawing E3-02-R0 with Drawing E3-02-R1

Drawing E3-03-R0 with Drawing E3-03-R1

Drawing E3-04-R0 with Drawing E3-04-R1

Drawing E3-05-R0 with Drawing E3-05-R1