

## APPENDIX B – RELEVANT DOCUMENTS

The following documents are available for review after completion and submission of a signed non-disclosure agreement to the Consulting Contract Administrator. A non-disclosure agreement has been included in Appendix E – Non-Disclosure Agreement.

1	<b>Flowmeter Review and Recommendation</b>	
	Author: C3 Water Inc. Published: 2020	A review of flowmeter technologies and recommendation for the discharge meter upgrades at the Regional Pumping Stations.
2	<b>Replacement of Treated Water Production Meters Preliminary Design Report</b>	
	Author: C3 Water Inc. Published: 2021	The preliminary design report of the discharge meter upgrades at the Regional Pumping Stations.
3	<b>Soil Mechanics Investigation</b>	
	Author: Baracos and Marantz Consulting Engineers Published: 1958	The soil mechanics investigation conducted for the design of the Wilkes Reservoir and Hurst Regional Pumping Station.
4	<b>Hurst Pumping Station Structural Repairs &amp; Drainage Building Upgrades Pipe Loading Assessment</b>	
	Author: KGS Group Published: 2020	A loading assessment conducted in support of the Hurst Regional Pumping Station structural repairs and drainage building upgrades.
5	<b>Hurst Regional Pumping Station Cooling Upgrades Geotechnical Report</b>	
	Author: TREK Geotechnical Inc. Published: 2021	A geotechnical investigation completed for the cooling system upgrades at the Hurst Regional Pumping Station.
6	<b>Memorandum: Hurst Pumping Station – Limit State Design Parameters</b>	
	Author: KGS Group Published: 2020	Update of the historical geotechnical design information for the Hurst Regional Pumping Station to be in accordance with Limit State Design. This memorandum is based on the 1958 geotechnical report by Baracos and Marantz Consulting Engineers.
7	<b>Facility Asbestos Surveys</b>	
	Author: Pinchin Ltd. Published: 2023	

The following documents are available electronically online.

4	<b>The City of Winnipeg Water &amp; Waste Department Electrical Design Guide</b> <a href="https://winnipeg.ca/waterandwaste/pdfs/dept/ElectricalDesignGuide.pdf">https://winnipeg.ca/waterandwaste/pdfs/dept/ElectricalDesignGuide.pdf</a>
5	<b>The City of Winnipeg Water &amp; Waste Department Identification Standard</b> <a href="https://winnipeg.ca/waterandwaste/pdfs/dept/IdentificationStandard.pdf">https://winnipeg.ca/waterandwaste/pdfs/dept/IdentificationStandard.pdf</a> <a href="https://winnipeg.ca/waterandwaste/pdfs/dept/IdentificationStandardAppendicesR03.pdf">https://winnipeg.ca/waterandwaste/pdfs/dept/IdentificationStandardAppendicesR03.pdf</a> <a href="https://winnipeg.ca/waterandwaste/pdfs/dept/IdentificationStandardAppendices.pdf">https://winnipeg.ca/waterandwaste/pdfs/dept/IdentificationStandardAppendices.pdf</a>
6	<b>The City of Winnipeg Water &amp; Waste Department Computer Assisted Drafting (CAD)-Geographic Information System (GIS) Standards and Templates</b> <a href="https://winnipeg.ca/waterandwaste/dept/cad_gis.stm">https://winnipeg.ca/waterandwaste/dept/cad_gis.stm</a>
7	<b>RDS SCADA System Upgrade, PLC Replacement, and Power Reliability Upgrades</b> <a href="https://www.winnipeg.ca/MatMgt/FolderContents.asp?FOLDER_NAME=805-2019&amp;YEAR=2019">https://www.winnipeg.ca/MatMgt/FolderContents.asp?FOLDER_NAME=805-2019&amp;YEAR=2019</a>

The following historical drawings are available after completion and submission of a signed non-disclosure agreement to the Consulting Contract Administrator. A non-disclosure agreement has been included in Appendix E – Non-Disclosure Agreement.

<b>Hurst Regional Pumping Station</b>		
<b>Drawing No.</b>	<b>Title</b>	<b>File Type</b>
1-0650A-C0001	Structural Repairs and Drainage Building Upgrades – Municipal – Site Plan	PDF/CAD
1-0650A-C0002	Structural Repairs and Drainage Building Upgrades – Municipal – Grading Plan	PDF/CAD
1-0650A-C0003	Structural Repairs and Drainage Building Upgrades – Municipal – Sensitive Infrastructure Plan	PDF/CAD
Hurst-25	Site Plan	PDF/CAD
Hurst-51	Pump Floor Level – Plan Installation	PDF/CAD
WH5621-4	Wilkes Ave Reservoir – Drainage Sewer Details	PDF
WH5621-17	Details of Valve Pits 'G' and 'H'	PDF
WH5622-18	Site Plan Showing Pipe Layout	PDF
WH5622-23	Pipiping to Chemical and Metering Equipment	PDF
WH5622-26	Details of Valve Pits 'C', 'D' and 'E'	PDF
WH5622-27	Venturi Meter Pit Details	PDF
D-850	Fort Garry & St. Vital Feeder Main	PDF
D-1027	Wilkes Ave Feeder Main	PDF
D-1411	By-Pass Piping at the W.D. Hurst Pumping Station	PDF
D-1412	By-Pass Piping at the W.D. Hurst Pumping Station – Valve Chamber No. 1	PDF
WA-18733	Midtown Feeder Main	PDF
WA-18749	Charleswood Feeder Main	PDF
1-0630A-P0001-001	Process & Instrumentation Diagram Legend and Details	PDF/CAD
1-0630A-P0001-002	Process & Instrumentation Diagram Legend and Details	PDF/CAD
1-0630A-P0001-003	Process & Instrumentation Diagram Legend and Details	PDF/CAD
1-0650M-P0013	Process & Instrumentation Diagram Discharge Header	PDF/CAD
1-0650M-P0014	Process & Instrumentation Diagram Discharge to Feeder mains	PDF/CAD
1-0650M-E0001	Electrical Single Line Diagram - Legend and Details	PDF/CAD
1-0650M-E0002	Electrical Single Line Diagram - 4160V Distribution	PDF/CAD
1-0650M-E0003	Structural Repairs and Drainage Building Upgrades - Electrical Single Line Diagram	PDF/CAD
1-0650M-E0013	Electrical Equipment Elevations - 4160V Switchgear & 600V CDP/MCC	PDF/CAD
1-0650M-E0014	Electrical Equipment Plan - Electrical Room	PDF/CAD
D-2663	Instrument Loop Diagram - West Feedermain Flow Transmitter	PDF/CAD
D-2664	Instrument Loop Diagram - East Feedermain Flow Transmitter	PDF/CAD
HUR-004-1	Main Control Panel - Layout	PDF
HUR-004-2	Main Control Panel - Bill of Materials	PDF
HUR-004-3	PLC Wiring Schematic - Power Distribution MCP Lines 1000-1149	PDF
HUR-004-4	PLC Wiring Schematic - Power Distribution MCP Lines 1150-1299	PDF
HUR-004-5	PLC Wiring Schematic - MCP Group 1, Rack 1 Lines 1150-1299	PDF
HUR-004-6	PLC Wiring Schematic - MCP Group 1, Rack 2 Lines 1300-1449	PDF
HUR-004-7	PLC Wiring Schematic - MCP Group 2, Rack 1 Lines 1450-1599	PDF

<b>Hurst Regional Pumping Station</b>		
<b>Drawing No.</b>	<b>Title</b>	<b>File Type</b>
HUR-004-8	PLC Wiring Schematic - MCP Group 2, Rack 2 Lines 1600-1749	PDF
HUR-004-9	PLC Wiring Schematic - MCP Group 2, Rack 3 Lines 1750-1899	PDF
HUR-004-10	PLC Wiring Schematic - MCP Group 2, Rack 4 Lines 1900-2049	PDF
HUR-004-11	PLC Wiring Schematic - MCP Group 3, Rack 1 Lines 2050-2199	PDF
HUR-004-12	PLC Wiring Schematic - MCP Group 3, Rack 2 Lines 2200-2349	PDF
HUR-004-13	PLC Wiring Schematic - MCP Group 3 Rack 3 Lines 2350-2499	PDF

<b>MacLean Regional Pumping Station</b>		
<b>Drawing No.</b>	<b>Title</b>	<b>File Type</b>
D-5375	Site Plan	PDF/CAD
D-5377	General Arrangement Plan - Sections and Details	PDF/CAD
D-5383	Process Flow Diagram & Legends	PDF/CAD
D-5384	Existing Pump Floor Plan & Truck Loading Platform Removals	PDF/CAD
1-0630A-P0001-001	Process & Instrumentation Diagram Legend and Details	PDF/CAD
1-0630A-P0001-002	Process & Instrumentation Diagram Legend and Details	PDF/CAD
1-0630A-P0001-003	Process & Instrumentation Diagram Legend and Details	PDF/CAD
1-0630M-P0009	Process & Instrumentation Diagram Discharge Header	PDF/CAD
1-630M-E0001	Electrical Single Line Diagram - Legend & Details	PDF/CAD
1-630M-E0008	UPS Upgrades - Single Line Diagram & Layout	PDF/CAD
1-630M-E0022	Electrical Single Line Diagram - Overview	PDF/CAD
1-630M-E0025	Electrical Single Line Diagram - MCC - M730E Essential MCC	PDF/CAD
1-630M-E0030	Electrical Equipment Plan - Pump Level	PDF/CAD
1-630M-E0031-001	Electrical Equipment Plan - Mezzanine Level	PDF/CAD
1-630M-E0031-002	Electrical Equipment Plan - Mezzanine Level	PDF/CAD
1-630M-E00042	Panelboard Schedules	PDF/CAD
D-2459	Instrumentation Loop Diagram - Discharge Header Flow North	PDF/CAD
D-2460	Instrumentation Loop Diagram - Discharge Header Flow South	PDF/CAD
MAC-004-1	Main Control Panel - Layout	PDF
MAC-004-2	Main Control Panel - Bill Of Materials	PDF
MAC-004-3	PLC Wiring Schematic – Power Distribution MCP Lines 1000-1149	PDF
MAC-004-4	PLC Wiring Schematic – MCP Group 1, Rack 1 Lines 1150-1299	PDF
MAC-004-5	PLC Wiring Schematic – MCP Group 1, Rack 2 Lines 1300-1449	PDF
MAC-004-6	PLC Wiring Schematic – MCP Group 2, Rack 2 Lines 1450-1599	PDF
MAC-004-7	PLC Wiring Schematic – MCP Group 2, Rack 2 Lines 1600-1749	PDF
MAC-004-8	PLC Wiring Schematic – MCP Group 2, Rack 3 Lines 1750-1899	PDF

<b>MacLean Regional Pumping Station</b>		
<b>Drawing No.</b>	<b>Title</b>	<b>File Type</b>
MAC-004-9	PLC Wiring Schematic – MCP Group 2, Rack 4 Lines 1900-2049	PDF
MAC-004-10	PLC Wiring Schematic - MCP Group 3, Rack 1 - Lines 2050-2199	PDF
MAC-004-11	PLC Wiring Schematic - MCP Group 3, Rack 2 - Lines 2200-2349	PDF
MAC-004-12	PLC Wiring Schematic - MCP Group 3 Rack 3 - Lines 2350-2499	PDF
MAC-004-13	PLC Wiring Schematic - MCP Group 3, Rack 4 - Lines 2500-2649	PDF
ME-3	Valve Location Drawing No 2	PDF
ME-8	Contract A - Pumping Station - Site & Location Plan	PDF
ME-9	Contract A – Pumping Station Structural – Plan Above Elevation 740.00 Sheet I	PDF
ME-10	Contract A - Pumping Station Structural - Plant Above Elevation 740.00 Sheet II	PDF
ME-11	Contract A - Pumping Station Structural - Pan above Elevation 750.00 Sheet I	PDF
ME-12	Contract A - Pumping Station Structural - Plant Above Elevation 750.00 Sheet II	PDF
ME-13	Contract A - Pumping Station Structural - Plant Above Elevation 762.00 Sheet I	PDF
ME-14	Contract A - Pumping Station Structural - Plant Above Elevation 762.00 Sheet II	PDF
ME-15	Contract A - Pumping Station Structural - Sections Sheet I	PDF
ME-16	Contract A – Pumping Station Structural – Sections Sheet II	PDF
ME-17	Contract A – Pumping Station Structural Steel	PDF
ME-18	Contract A - Pumping Station Superstructure - Elevations	PDF
ME-19	Contract A - Pumping Station Superstructure – Plan Above Elevations 740.00 and 750.00	PDF
ME-20	Contract A - Pumping Station Superstructure – Plan Above Elevation 762.00 and Roof Plan	PDF
ME-21	Contract A - Pumping Station Superstructure - Wall Sections	PDF
ME-22	Contract A - Pumping Station Superstructure Sections and Details	PDF
ME-23	Contract A - Pumping Station Superstructure Schedules and Details	PDF
ME-24	Contract A - Pumping Station Mechanical - Plan Above Elevations 730.00, 740.00 & 750.00	PDF
ME-25	Contract A - Pumping Station Mechanical - Plan Above Elevation 740.00 and Section	PDF
ME-26	Contract A - Pumping Station Mechanical - Sections	PDF
ME-27	Contract A - Pumping Station Mechanical - Plan Above Elevaton 762.00 and Sections	PDF

<b>McPhillips Regional Pumping Station</b>		
<b>Drawing No.</b>	<b>Title</b>	<b>File Type</b>
D-5376	McPhillips Pumping Station Upgrading - Site Plan	PDF/CAD
D-5378	McPhillips Pumping Station Upgrading - General Arrangement Plan	PDF/CAD
D-5390	McPhillips Pumping Station Upgrading - Process Flow Diagram & Legends	PDF/CAD
D-5391	McPhillips Pumping Station Upgrading - Existing Pump Floor Plan & Truck Loading Platform	PDF/CAD
1-0640A-P0001-001	Process & Instrumentation Diagram Legend and Details	PDF/CAD
1-0640A-P0001-002	Process & Instrumentation Diagram Legend and Details	PDF/CAD
1-0640A-P0001-003	Process & Instrumentation Diagram Legend and Details	PDF/CAD
1-0640M-P0009	Process & Instrumentation Diagram Discharge Header	PDF/CAD
1-0640M-E0001	Electrical - Legend & Details	PDF/CAD
1-0640M-E0011	Single Line Diagram & Layout	PDF/CAD
1-0640M-E0030	Electrical and HVAC Upgrades - Electrical Single Line Diagram - Legend & Details	PDF/CAD
1-0640M-E0036	Electrical Single Line Diagram - Legend & Details	PDF/CAD
1-0640M-E0037	Electrical Single Line Diagram - Legend & Details	PDF/CAD
1-0640M-E0039	Electrical Equipment Plan - Electrical and Control Rooms	PDF/CAD
1-0640M-E0042-001	Panelboard Schedule	PDF/CAD
1-0640M-E0042-002	Panelboard & Luminaire Schedule	PDF/CAD
D-2220	Instrument Loop Diagram - Discharge Header Flow	PDF/CAD
D-2221	Instrument Loop Diagram - Discharge Header Flow	PDF/CAD
MCP-23	Mechanical Plan above Elevation 749.0	PDF
MCPH-004-1	Main Control Panel - Layout	PDF
MCPH-004-2	Main Control Panel - Bill of Materials	PDF
MCPH-004-3	PLC Wiring Schematic - Power Distribution MCP - Lines 1000-1149	PDF
MCPH-004-4	PLC Wiring Schematic - MCP Group 1, Rack 1 Lines 1150-1299	PDF
MCPH-004-5	PLC Wiring Schematic - MCP Group 1, Rack 2 Lines 1300-1449	PDF
MCPH-004-6	PLC Wiring Schematic - MCP Group 2, Rack 1 - Lines 1450-1599	PDF
MCPH -004-7	PLC Wiring Schematic - MCP Group 2, Rack 2 - Lines 1600-1749	PDF
MCPH -004-8	PLC Wiring Schematic - MCP Group 2, Rack 3 - Lines 1750-1899	PDF
MCPH -004-9	PLC Wiring Schematic - MCP Group 2, Rack 4 - Lines 1900-2049	PDF
MCPH -004-10	PLC Wiring Schematic - MCP Group 3, Rack 1 - Lines 2050-2199	PDF
MCPH -004-11	PLC Wiring Schematic - MCP Group 3, Rack 2 - Lines 2200-2349	PDF
MCPH -004-12	PLC Wiring Schematic - MCP Group 3 Rack 3 - Lines 2350-2499	PDF