

INDEX TO SPECIFICATIONS

DIVISION	SECTION	No. of Pages
VOLUME 1 - SPECIFICATIONS		
DIVISION 00	PROCUREMENT AND CONTRACTING REQUIREMENTS	
00 00 01	Specifications Approvals Signatures	2
00 00 10	Specifications and Drawing List	9
DIVISION 01	GENERAL REQUIREMENTS	
01 10 10	General Instructions	6
01 14 10	Scheduling and Management of Work	4
01 16 10	Materials Supplied by Departmental Representative	1
01 33 00	Submittal Procedures	5
01 35 24	Special Procedures on Fire Safety Requirements	4
01 35 25	Special Procedures on Lockout Requirements	4
01 35 29	Health and Safety Requirements	9
Appendix 'A'	Draft HHERA Report	57
01 35 43	Environmental Procedures	3
01 45 00	Testing and Quality Control	3
01 50 00	Temporary Facilities	5
01 57 14	Erosion & Sedimentation Control	6
01 61 00	Common Product Requirements	4
01 74 11	Cleaning	3
01 74 21	Construction Waste Management and Disposal	2
01 77 00	Closeout Procedures	1
01 78 00	Closeout Submittals	6
01 91 13	Commissioning Requirements	19
01 91 14	Mechanical Systems Commissioning	10
01 91 15	Electrical Systems Commissioning	3
01 91 31	Commissioning Plan	7
01 91 31 Form A	Sample Commissioning Issues Log	1
01 91 31 Form B	Commissioning Test or Document Approval	1
01 91 31 Form C	Sample CX Prefunctional Check List and Start-up	1
01 91 31 Form D	Sample Commissioning Submittal / Approval	1
01 91 31 Form E	Commissioning Corrective Action Report	1
01 91 34	Mechanical Testing Requirements	8
01 91 35	Mechanical Pre-functional	1
01 91 36	Sample Functional Test Procedures Mechanical	1
01 91 36A	Heat Recovery Ventilator (HVR) Functional Test	3
01 91 36B	Domestic Hot Water Heater	2
01 91 36C	Air Source Heat Pump	2
01 91 38	Electrical Testing Requirements	3
01 91 39	Electrical Pre-functional Checklists	1
01 91 39A	Power Distribution System Pre-functional	5
01 91 39B	Lighting and Lighting Control Systems Pre-Functional	4
01 91 40	Sample Functional Test Procedures Electrical	1
01 91 40A	Power Distribution System	2

DIVISION 03	CONCRETE	
03 10 00	Concrete Forming and Accessories	6
03 20 00	Concrete Reinforcing	4
03 30 00	Cast-in-Place Concrete	8
03 35 00	Concrete Finishing	4
DIVISION 04	MASONRY	
04 05 00	Common Work Results for Masonry	5
04 05 12	Masonry Mortar and Grout	5
04 05 19	Masonry Reinforcement and Connectors	6
04 05 23	Masonry Accessories	2
04 22 00	Concrete Unit Masonry	4
DIVISION 05	METALS	
05 12 23	Structural Steel for Buildings	9
05 21 00	Steel Joist Framing	5
05 31 00	Steel Deck	5
05 41 00	Structural Metal Stud Framing	7
05 50 00	Metal Fabrications	11
DIVISION 06	WOOD, PLASTICS AND COMPOSITES	
06 10 00	Rough Carpentry	5
06 40 00	Architectural Woodwork	9
06 47 00	Plastic Laminates	5
DIVISION 07	THERMAL AND MOISTURE PROTECTION	
07 11 13	Bituminous Dampproofing	4
07 14 00	Fluid Applied Waterproofing	6
07 21 00	Building Insulation	5
07 21 19	Foamed-in-place Insulation	6
07 26 17	Underslab Gas / Vapour Retarder	3
07 27 26	Fluid Applied Membrane Air Barrier	6
07 42 43	Composite Metal Wall Panels	7
07 46 19	Preformed Metal Wall Cladding	7
07 46 23	Wood Siding	5
07 55 00	Modified Bituminous Membrane Roofing	14
07 61 00	Sheet Metal Roofing	8
07 62 00	Sheet Metal Flashing and Trim	6
07 81 00	Spray-On Fireproofing	6
07 84 00	Fire Stopping and Smoke Seals	5
07 92 00	Joint Sealing	8
DIVISION 08	OPENINGS	
08 11 00	Hollow Metal Doors and Frames	8
08 11 16	Aluminium Doors and Frames	8
08 14 00	Wood Doors	5

DIVISION 08 - continued

08 31 00	Access Doors for Mechanical Systems	3
08 34 73	Sound Control Door Assemblies	6
08 44 13	Glazed Aluminum Curtain Wall	12
08 51 13	Aluminum Windows	7
08 54 13	Fiberglass Windows	8
08 71 00	Door Hardware	36
08 80 00	Glazing	8
08 91 00	Louvres	4

DIVISION 09

FINISHES

09 21 16	Gypsum Board Assemblies	9
09 22 16	Non-Structural Metal Framing	5
09 30 13	Ceramic Tile	9
09 51 13	Acoustical Panel Ceilings	4
09 53 00	Acoustic Ceiling Suspension	4
09 65 16	Resilient Sheet Flooring	7
09 65 19	Resilient Tile Flooring	8
09 68 13	Tile Carpeting	8
09 91 00	Painting	15

DIVISION 10

SPECIALTIES

10 14 02	Interior Signage	6
10 28 13	Washroom Accessories	6
10 44 16	Portable Fire Extinguishers	2
10 51 13	Metal Lockers	3
10 56 13	Metal Storage Shelving	4
10 56 26	Mobile Storage Shelving	6
10 75 00	Flagpoles	5
10 90 00	Specialties	3

DIVISION 11

EQUIPMENT

11 31 00	Residential Appliances	5
----------	------------------------	---

DIVISION 12

FURNISHINGS

12 24 13	Roller Window Shades	5
----------	----------------------	---

DIVISION 14

CONVEYING EQUIPMENT

14 20 06	Passenger Elevator	12
----------	--------------------	----

VOLUME 2 - SPECIFICATIONS

DIVISION 21

FIRE SUPPRESSION

21 05 01	Mechanical General Requirements	5
21 13 13	Wet Pipe Sprinkler System	9

DIVISION 22	PLUMBING	
22 05 00	Plumbing General Requirements	8
22 10 10	Plumbing Pumps	2
22 13 17	Drainage Waste and Vent Piping	3
22 30 05	Domestic Water Heaters	2
22 42 01	Plumbing Specialties and Accessories	8
DIVISION 23	HEATING VENTILATION AND AIR-CONDITIONING (HVAC)	
23 05 01	Use of Mechanical Systems during Construction	1
23 05 05	Installation of Pipework	4
23 05 13	Motor, Drives and Guards for Mechanical	3
23 05 16	Flexible Connections, Expansion Joints, Anchors & Guides	2
23 05 20	Thermometers and Pressure Gauges	3
23 05 23	Valves – Bronze	5
23 05 24	Valves – Cast Iron	6
23 05 25	Valves – Cast Steel	4
23 05 29	Bases, Hangers and Supports	7
23 05 48	Vibration Isolation	3
23 05 53	Mechanical Identification	5
23 05 94	Pressure Testing Ducted Air System	3
23 05 95	Testing, Adjusting and Balancing	5
23 07 13	Thermal Insulation for Ducting	5
23 07 16	Thermal Insulation for Equipment	5
23 07 19	Thermal Insulation for Piping	5
23 08 02	Cleaning and Startup of Mechanical Systems	3
23 11 23	Facility Natural Gas Piping	5
23 21 13	Steel Piping & Fittings Hydronic Systems	4
23 21 14	Hydronic Specialties	6
23 21 23	Pumps - Hydronic Systems	4
23 25 00	HVAC Water Treatment Systems	3
23 31 13	Metal Ducts – Low Pressure to 500 PA	5
23 33 00	Duct Accessories	3
23 33 14	Dampers – Balancing	2
23 33 15	Dampers – Operating	2
23 33 16	Dampers – Fire and Smoke	2
23 33 46	Flexible Ductwork	2
23 34 00	Commercial Fans	3
23 37 13	Diffusers, Registers and Grilles	2
23 37 20	Louvres, Intakes and Vents	2
23 44 00	Filters and Filter Gauges	2
23 52 00	Condensing Boilers	4
23 73 10	Heat Recovery Ventilation Units	3
23 81 40	Heat Pump System	6
23 82 39	Unit Heaters and Force Flow Heater	2
DIVISION 25	BUILDING AUTOMATION	
25 00 00	Building Automation System	21

DIVISION 26	ELECTRICAL	
26 05 00	Electrical General Requirements	10
26 05 20	Wire & Box Connectors (0-+1000V)	1
26 05 21	Wires and Cables (0-1000V)	4
26 05 28	Grounding Secondary	3
26 05 29	Fastenings and Supports	2
26 05 31	Splitters, Junction, Pull Boxes and Cabinets	2
26 05 32	Outlet Boxes, Conduit Boxes and Fittings	2
26 05 34	Conduits, Conduit Fasteners and Fittings	5
26 05 44	Installation of Cables in Trenches and Ducts	2
26 09 23	Digital Metering System	6
26 12 17	Dry Type Transformer to 600V	3
26 24 02	Service Entrance Board	4
26 24 17	Panel Boards & Breakers	3
26 27 26	Wiring Devices	5
26 28 14	Fuses-Low Voltage	2
26 28 21	Molded Case Circuit Breakers	1
26 28 23	Disconnect Switches Fused and Non-Fused	2
26 29 10	Motor Starters to 600V	3
26 29 23	Variable Speed Drives	5
26 50 00	Lighting Equipment	3
26 50 05	Networked Lighting Control System	6
26 52 01	Equipment for Emergency Lighting	1
26 53 00	Exit Lighting	1
26 56 19	Exterior Lighting Standards	2
DIVISION 27	COMMUNICATIONS	
27 05 13	Telecommunications Systems	12
27 05 28	Telecommunications Raceway System	1
27 51 16	Public Address and Mass Notification Systems	5
27 51 23	Video Intercom System	2
DIVISION 28	ELECTRICAL SAFETY AND COMMUNICATIONS	
28 13 00	Access Control & Security System	5
28 23 00	Closed Circuit Television (CCTV) Video Surveillance	6
28 26 00	Personal Protection Alarm System	6
28 31 00	Multiplex Fire Alarm System	8
DIVISION 31	EARTHWORK	
31 05 10	Corrected Maximum Dry Density for Fill	1
31 11 00	Clearing & Grubbing	4
31 22 13	Rough Grading	2
31 23 10	Excavating, Trenching and Backfilling	10
31 23 16	Rock Removal	6
31 32 19.01	Geotextiles	3

DIVISION 32

EXTERIOR IMPROVEMENTS

32 01 90.33	Tree & Shrub Preservation	5
32 11 16	Granular Base and Sub-Base Materials	3
32 12 10	Marshall Immersion Test for Bitumen	2
32 12 16	Hot Mix Asphalt Paving	4
32 16 15	Concrete Walks, Curbs and Gutters	3
32 17 23	Pavement Marking	3
32 37 00	Exterior Site Furnishings	2
32 91 19.13	Topsoil Placement & Finish Grading	5
32 92 23	Sodding	4

DIVISION 33

UTILITIES

33 11 00	Water Mains	13
33 31 00	Gravity Sanitary Sewers	6
33 32 14	Sewage Lift Station	10
33 34 00	Pressure Sewers	3
33 39 00	Manholes, Catch Basins and Structures	3
33 41 00	Storm Sewer	4
33 46 16	Subdrainage System	4
33 65 76	Concrete Encased Duct Banks	3

END OF SECTION

DRAWING LIST

CIVIL DRAWINGS

Dwg. No.	Drawing Title
C1	Site Services Plan
C2	Site Services Water Lateral & Sanitary Forcemain Profiles
C3	Miscellaneous Sections and Details
C4	Site Services, Sewage Grinder Lift Station, Sections and Details

LANDSCAPE DRAWINGS

Dwg. No.	Drawing Title
L0	Existing Conditions
L1	Site Plan Grading & Layout
L2	Planting Plan
L3.1	Landscape Details
L3.2	Landscape Details
L3.3	Landscape Details

ARCHITECTURAL DRAWINGS

Dwg. No.	Drawing Title
A0.1	Title Sheet
A1.1	Site Plan
A2.0	Wall and Partition Types, Notes and Abbreviations
A2.1	Basement Level Floor Plan, Weeping Tile Layout
A2.2	Ground Level Floor Plan
A2.3	Second Level Floor Plan
A2.4	Roof Plan
A2.5	Door Schedule Door Types and Jamb Types
A2.6	Door Schedule and Exterior Window Elevations
A2.7	Interior Door Frame / Screen Frame Profiles and Details
A2.8	Ground and Basement Level - Finishes Plans
A2.9	Second Level Partition Types and Layout Finishes Plan
A2.10	Room Finish Schedule
A2.11	Room Finish Schedule
A3.1	Elevations
A3.2	Elevations
A3.3	Hidden Elevations, Partial Hidden Elevations and Plan Detail References
A3.4	Building Sections
A3.5	Building Sections
A4.1	Basement Level Detailed Layout
A4.2	Ground Level Detailed Layouts
A4.3	Ground Level Detailed Layouts
A4.4	Second Level Detailed Layouts
A4.5	Second Level Detailed Layouts
A5.1	Interior Elevations Washrooms
A5.2	Typical Kitchens Enlarged Plans and Elevations
A5.3	Public and Administration Areas Interior Elevations
A5.4	Millwork
A5.5	Reception Desk Millwork Sections
A6.1	Reflected Ceiling Plan Basement Level
A6.2	Reflected Ceiling Plan Ground Level

A6.3	Reflected Ceiling Plan Second Level
A7.1	Stair No. 1
A7.2	Stair No. 2
A7.3	Stair Details
A7.4	Elevator Enlarged Plans, Section & Details
A8.0	Partition Details
A8.1	Wall Sections
A8.2	Wall Sections
A8.3	Section Details
A8.4	Section Details
A8.5	Section Details
A8.6	Exterior Plan Details
A8.7	Exterior Plan Details
A8.8	Exterior Plan Details
A8.9	Canopy Details
A8.10	Interior Plan Details
A8.11	Interior Plan Details
A8.12	Roof Details

STRUCTURAL DRAWINGS

Dwg. No.	Drawing Title
S1.0	Foundation Plan
S1.1	Partial Ground Floor Plan Over Basement
S1.2	Second Floor & Low Roof Plans
S1.3	Roof Plans
S2.1	Bracing Elevations
S3.1	Details – 1
S3.2	Details – 2
S3.3	Details – 3
S3.4	Details – 4
S3.5	Details – 5
S3.6	Details – 6
S3.7	Details – 7
S4.1	Typical Details – 1
S4.2	Typical Details – 2
S4.3	Typical Details – 3

MECHANICAL DRAWINGS

Dwg. No.	Drawing Title
P2.1	Mechanical Basement Level Sanitary Drainage
P2.2	Mechanical Ground Level Sanitary Drainage
P2.3	Mechanical Second Level Sanitary Drainage
P2.4	Mechanical Basement Level Domestic Water
P2.5	Mechanical Ground Level Domestic Water
P2.6	Mechanical Second Level Domestic Water
P5.1	Mechanical Plumbing Details
P6.1	Mechanical Plumbing Schedules
H2.1	Mechanical Basement Level Heating
H2.2	Mechanical Ground Level Heating
H2.3	Mechanical Second Level Heating
H5.1	Mechanical Heating Details
H6.1	Mechanical Heating Schedules

V2.1	Mechanical Basement Level HVAC
V2.2	Mechanical Ground Level HVAC
V2.3	Mechanical Second Level HVAC
V2.4	Mechanical Ground & Second Level Refrigerant Piping
V5.1	Mechanical Ventilation Details
V5.2	Mechanical Controls
V6.1	Mechanical Ventilation Schedules
F2.1	Mechanical Basement Level Fire Protection
F2.2	Mechanical Ground Level Fire Protection
F2.3	Mechanical Second Level Fire Protection

ELECTRICAL DRAWINGS

Dwg. No.	Drawing Title
E1.1	Electrical Legend
E2.1	Electrical Site Plan
E2.2	Electrical Site Details
E3.1	Electrical Basement Level Power and Telecommunications
E3.2	Electrical Ground Level Power and Telecommunications
E3.3	Electrical Second Floor Power and Telecommunications
E4.1	Electrical Basement Level Lighting
E4.2	Electrical Ground Level Lighting
E4.3	Electrical Second Floor Lighting
E5.1	Electrical Basement Level Systems
E5.2	Electrical Ground Level Systems
E5.3	Electrical Second Floor Systems
E6.1	Electrical Power Riser Diagram
E6.2	Electrical Panel Schedules Sheet 1
E6.3	Electrical Panel Schedules Sheet 2
E6.4	Electrical Panel Schedules Sheet 3
E6.5	Electrical Schedules Equipment Load List
E6.6	Electrical Schematics Grounding System Riser Diagram
E6.7	Electrical Details Typical Equipment Installations
E6.8	Electrical Lighting Fixture Schedule
E6.9	Electrical Lighting Controls Riser Diagram Sheet 1
E6.10	Electrical Lighting Controls Riser Diagram Sheet 2
E6.11	Electrical Lighting Controls Riser Diagram Sheet 3
E6.12	Electrical Fire Alarm and Special Systems Riser Diagrams
E6.13	Electrical Access Control and Security System Details and Riser Diagram

END OF SECTION