

i Stamp Page..... 1
ii Table of Contents..... 3
iii List of Drawings..... 1

DIVISION 00 — PROCUREMENT AND CONTRACTING REQUIREMENTS

DIVISION 01 - GENERAL CONDITIONS

00 10 10 - General Instructions..... 5
01 14 10 - Scheduling and Management of Work 5
01 16 10 - Materials Supplied by Departmental Rep 2
01 33 00 - Submittal Procedures 5
01 35 24 - Special Procedures on Fire Safety 4
01 35 29 - Health and Safety Requirements..... 9
01 35 43 - Environmental Procedures..... 2
01 42 13 - Abbreviations and Acronyms 12
01 45 00 - Testing and Quality Control 2
01 50 00 - Temporary Facilities and Controls..... 6
01 61 00 - Common Product Requirements..... 3
01 74 11 - Cleaning..... 2
01 74 22 - Construction Demolition Waste Management..... 2
01 77 00 - Closeout Procedures 1
01 78 00 - Closeout Submittals 6
01 79 00 - Demonstration and Training 2
01 91 13 - General Commissioning (Cx) Requirements 9
01 91 41 - Commissioning- Training..... 3

DIVISION 02 — EXISTING CONDITIONS

02 41 21 - Selective Demolition 5

DIVISION 03 — CONCRETE

03 10 00 - Concrete Forming and Accessories 4
03 20 00 - Concrete Reinforcing..... 4
03 30 00 - Cast-In-Place Concrete 9
03 35 00 - Concrete Finishing..... 3
03 41 00 - Precast Structural Concrete..... 5

DIVISION 04 — MASONRY

04 04 99 -Masonry for Minor Works..... 7

DIVISION 05 — METALS

05 12 23 -Structural Steel for Buildings 7
05 50 00 - Metal Fabrications 5
05 50 10 - Architectural Metal Fabrications 3

DIVISION 06 — WOOD, PLASTICS, AND COMPOSITES

06 61 00 - Fibreglass Reinforced Plastics 3

DIVISION 07 — THERMAL AND MOISTURE PROTECTION

07 21 13 - Board Insulation..... 3
07 21 19 - Foamed-In-Place Insulation..... 2
07 26 23 - Subgrade Gas and Vapour Membrane 3
07 27 00.02 - Air Barriers - Performance 4
07 43 42 - Composite Metal Building Panels 6
07 46 19 - Steel Siding..... 5
07 62 00 - Sheet Metal Flashing and Trim..... 5
07 84 00 - Firestopping..... 4

07 92 00 - Joint Sealants	5
DIVISION 08 — OPENINGS	
08 22 00 - Reinforced Plastic Doors and Frames	4
08 33 23 – Overhead Coiling Doors	4
08 71 00 - Door Hardware	8
08 80 50 - Glass and Glazing	5
DIVISION 09 — FINISHES	
09 21 16 - Gypsum Board Assemblies.....	4
09 67 23 - Resinous Flooring.....	4
09 91 10 - Painting.....	7
DIVISION 10 — SPECIALTIES	
10 28 14 - Toilet and Bath Accessories	2
DIVISION 20 — GENERAL MECHANICAL	
20 05 01 – Common Work Results for Mechanical.....	16
20 05 53 – Mechanical Identification	6
DIVISION 22 — PLUMBING	
22 05 05 - Installation of Pipework.....	5
22 05 19 - Meters, Gauges and Instruments.....	8
22 05 23 - Valves - Process.....	3
22 05 23.01 - Valves - Bronze	4
22 05 29 - Hangers and Supports for HVAC Piping and Equipment.....	9
22 07 15 - Thermal Insulation for Piping	6
22 08 02 - Cleaning and Start-Up of Mechanical Piping Systems (2)	3
22 11 16 - Domestic Water Piping.....	5
22 13 18 - Drainage Waste and Vent Piping - Plastic	3
22 20 13 - Pressure Piping	5
22 30 00 – Booster Pumps	8
22 30 05 - Domestic Water Heaters	2
22 40 00 - UV Disinfection Equipment	7
22 42 01 - Plumbing Specialties and Accessories.....	7
22 42 03 - Commercial Fixtures	3
DIVISION 23 — HEATING VENTILATING AND AIR CONDITIONING	
23 05 01 - Use of Vac Systems During Construction	1
23 05 93 - Testing, Adjusting and Balancing for Air Distribution Systems	6
23 05 94 - Pressure Testing of Ducted Air Systems	3
23 07 13 - Duct Insulation.....	5
23 31 13 - Metal Ducts - Low Pressure To 500 Pa (2).....	6
23 33 00 - Air Duct Accessories	6
23 34 00 – HVAC Fans.....	3
23 37 13 - Diffusers, Registers and Grilles (2)	3
23 37 20 - Louvres, Intakes and Vents (2)	3
23 73 11 - Air Handling Units - Packaged.....	5
DIVISION 25 — INTEGRATED AUTOMATION	
25 05 01 - EMCS- General Requirements	7
DIVISION 26 — ELECTRICAL	
26 05 00 - Common Work Results for Electrical.....	11
26 05 20 - Wire and Box Connectors (0-1000 V).....	2
26 05 21 - Wires and Cables (0-1000 V)	3
26 05 28 - Grounding - Secondary.....	3
26 05 29 - Hangers and Supports for Electrical Systems.....	2

26 05 31 - Splitters, Junction, Pull Boxes and Cabinets.....	1
26 05 32 - Outlet Boxes, Conduit Boxes and Fittings.....	2
26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings	3
26 12 16.01 - Dry Type Transformers Up To 600 V Primary.....	2
26 24 16.01 - Panelboards Breaker Type	3
26 27 26 - Wiring Devices	3
26 28 16.02 - Moulded Case Circuit Breakers.....	3
26 28 23 - Disconnect Switches - Fused and Non-Fused.....	1
26 29 10 - Motor Starters To 600 V	3
26 50 00 - Lighting.....	2
26 52 00 - Emergency Lighting	2
26 53 00 - Exit Signs.....	2
26 82 39.01 - Unit Heaters - Electric	2
DIVISION 27 — COMMUNICATIONS	
27 10 05 - Structured Cabling for Communications Systems	6
DIVISION 28 — ELECTRONIC SAFETY AND SECURITY	
28 13 00 - Access Control.....	8
28 31 00.01 - Addressable Fire Alarm System	11
DIVISION 31 — EARTHWORK	
31 05 16 - Aggregate Materials.....	3
31 23 00 - Excavation and Fill for Foundations.....	8
31 23 33.01 - Excavating, Trenching, Backfilling	7
31 32 19.01 - Geotextiles	3
DIVISION 32 — EXTERIOR IMPROVEMENTS	
32 11 16.01 - Granular Subbase.....	6
32 11 23 - Granular Base Course	3
32 12 16 - Asphalt Paving.....	2
32 15 60 - Roadway Dust Control.....	2
32 16 15 - Concrete Walks, Curbs and Gutters.....	2
32 17 23 - Pavement Markings	2
32 91 19.13 - Topsoil Placement and Grading.....	4
32 92 19.13 - Mechanical Seeding.....	4
DIVISION 33 — UTILITIES	
33 11 16 - Site Water Utility Distribution Piping	6
33 42 13 - Pipe Culverts.....	3
33 65 73 - Concrete Encased Duct Banks and Manholes	4
DIVISION 34 — TRANSPORTATION	
34 71 13.23 - Bollards.....	2
DIVISION 40 — PROCESS INTEGRATION	
40 05 00 - Common Work Results for Process Integration	13
APPENDIX A	
Construction Phase Commissioning Plan	54

CIVIL

C100 EXISTING SITE PLAN
C101 SITE WORKS
C102 SITE EXCAVATION PLAN AND EROSION CONTROL PLAN
C103 MISCELLANEOUS SECTIONS AND DETAILS

STRUCTURAL

S100 FOUNDATION PLAN, SECTIONS AND DETAILS
S200 ATTIC FLOOR PLAN, SECTIONS AND DETAILS
S300 ROOF FRAMING PLAN, SECTIONS AND DETAILS

ARCHITECTURAL

A101 DEMOLITION PLAN
A102 FLOOR PLANS
A111 REFLECTED CEILING AND ROOF PLANS
A201 BUILDING ELEVATIONS
A301 BUILDING SECTIONS
A311 WALLS SECTIONS
A401 STAIR SECTION AND PLAN
A501 DETAILS
A502 DETAILS
A503 DETAILS
A602 SCHEDULES AND MISC DETAILS

MECHANICAL

M101 FLOOR PLAN, DETAILS AND SCHEDULES – SANITARY AND DOMESTIC PLUMBING
M102 FLOOR PLAN, DETAILS AND SCHEDULES – VENTILATION AND CONTROLS
M103 DETAILS AND SCHEMATICS – VENTILATION AND CONTROLS
M104 FLOOR PLAN – MECHANICAL PROCESS EQUIPMENT
M105 DETAILS AND SECTIONS – MECHANICAL PROCESS EQUIPMENT

ELECTRICAL

E100 SITE PLAN AND DETAILS
E102 GROUND AND ATTIC FLOOR PLAN – LIGHTING LAYOUT
E103 GROUND AND ATTIC FLOOR PLAN – POWER LAYOUT AND SCHEDULES
E104 GROUND AND ATTIC FLOOR PLAN – COMMUNICATIONS LAYOUT
E105 SINGLE LINE DIAGRAM
E106 PROCESS CONTROL SCHEMATIC
E107 PANEL LEGENDS

END OF SECTION