

APPENDIX 2G

PROPOSAL EXTRACTS (DESIGN AND CONSTRUCTION)

The Proposal Extracts (Design and Construction) consist of the following four parts:

Part 1: portions of Project Co's July 21, 2010 technical submission for the Project that the parties have selected to be included as part of the Project Agreement as listed in the attached table of contents and drawing list (the "**Initial Design and Construction Proposal**");

Part 2: clarifications and revisions to the Initial Design and Construction Proposal, which will be read together with and as necessary amend the Initial Design and Construction Proposal, and design issues that the parties have agreed will be addressed during design development;

Part 3: the revised drawings listed in the attached list (the "**Revised Proposal Drawings**"), which drawings describe agreed changes to the Initial Design and Construction Proposal, including changes related to the incorporation of Project Co's alternate laboratory design proposal;

Part 4: a revised "Schedule of Accommodations" dated November 22, 2010 that reflects the design changes shown in the Revised Proposal Drawings.

Priority of Proposal Extract Documents

1. Proposal Clarifications and Revisions: If there is any conflict between a provision of Part 2 of these Proposal Extracts (Design and Construction) and any provision contained in the Initial Design and Construction Proposal, the provision set out in Part 2 of these Proposal Extracts (Design and Construction) will govern.
2. Drawings and Schedule of Accommodations: Drawings included in the Initial Design and Construction Proposal have not yet been updated to reflect the agreed changes in design and to the extent there is a conflict between a drawing or other document included in the Initial Design and Construction Proposal and a Revised Proposal Drawing or the revised "Schedule of Accommodations", the Revised Proposal Drawing or revised "Schedule of Accommodations" will govern.

These Proposal Extracts (Design and Construction) describe Project Co's proposed design of the Facility and Project Co's approach to the Design and Construction, but nothing in these Proposal Extracts (Design and Construction) will limit Project Co's obligation to undertake the Design and Construction in accordance with the requirements of the Project Agreement, including Appendix 2B [User Consultation Process], Appendix 2C [Review Procedure] and the Design and Construction Specifications.

PART 1 – INITIAL DESIGN AND CONSTRUCTION PROPOSAL

Table Of Contents

1.1 General Approach

1.1.1 Compliance with Schedule 3	4 pages
1.1.2 Organization and Personnel	42 pages
1.1.3 Design Approach.....	12 pages
1.1.4 Meeting Project Design Objectives	25 pages
1.1.5 User Consultation and Design Review	18 pages
(for “Submittal Schedule” see Attachment 1 to Appendix 2C — Submittal Schedule)	
1.1.6 Equipment Procurement	14 pages
1.1.7 Approvals	7 pages
1.1.8 Innovative Use of Wood.....	8 pages
1.1 Appendix.....	1 page

1.2 Design

1.2.1 Site Development.....	2 pages
1.2.2 Site Circulation and Parking.....	9 pages
1.2.3 Clinical Design	24 pages
1.2.4 Accommodation Schedule	2 pages
(Schedule of Accommodation- Integrated Team Solutions 1.0- 12.0).....	66 pages
1.2.5 Operational Efficiency of Emergency Department.....	14 pages
1.2.6 Building Design	5 pages
1.2.7 Furniture and Fittings	6 pages

1.3 Technical

1.3.1(a) Outline Specifications	429 pages
1.3.1(b) Outline Specifications	2 pages
1.3.2 Infection Prevention and Control.....	16 pages
1.3.3 Post- disaster	4 pages
1.3.4 Structure.....	16 pages
1.3.5 Civil Work	5 pages
1.3.6 Off-site Works	4 pages
1.3.7 Electrical.....	16 pages
1.3.8 Communications Systems	33 pages
1.3.9 Safety and Security	6 pages
1.3.10 Mechanical Systems	27 pages
1.3.11 Connection to Existing Services	4 pages
1.3.12 Medical Gases	2 pages
1.3.13 Vertical Transportation.....	3 pages
1.3 Appendix	
Electrical Cut Sheets.....	37 pages

Communication Systems Cut Sheet	97 pages
Security Threat and Risk Assessment Report	50 pages

1.4 Construction

1.4.1 Approach	28 pages
1.4.2 Integration	15 pages
1.4.3 Project Schedule	31 pages
(for "Project Schedule" see Appendix 2F—Initial Project Schedule)	
1.4.4 Energy Efficiency and LEED® Gold Certification	13 pages
1.4.5 Life Cycle/Capital Replacement Plan.....	9 pages
<i>1.4 Appendix</i>	
EllisDon Corporation Quality Assurance Manual	49 pages
Consultants Indicative Quality Plan	8 pages
Indicative Energy Management Plan	24 pages
Process Loads	1 page
Energy Compliance Report.....	21 pages
Energy Target Report.....	5 pages
Life Cycle Plan	6 pages

<u>Alternate Laboratory Design</u>	11 pages
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Electronic Files

- 3D Animated Model
- Printable Renderings (22 files)
- Energy Model

DRAWING LIST

Architectural		
A-000	Presentation Rendering (aerial view)	July 21, 2010
A-001	Drawing list	July 21, 2010
A-002	Site Context Plan	July 21, 2010
A-003	Master Plan Concept	July 21, 2010
A-004	Architectural Site Plan	July 21, 2010
A-005	Streetscape Drawings	July 21, 2010
A-006	Presentation Rendering (North-West view)	July 21, 2010
A-050	Circulation Plans	July 21, 2010
A-051	Circulation Plans	July 21, 2010
A-052	Parking Plans	July 21, 2010
A-100	Presentation Rendering (the main entrance of the facility)	July 21, 2010
A-100b	Level 0 patient/ staff/ services flow	July 21, 2010
A-101a	Campus Plan - level 1	July 21, 2010
A-101b	Level 1 patient/ staff/ services flow	July 21, 2010
A-102a	Campus Plan - level 2	July 21, 2010
A-102b	Level 2 patient/ staff/ services flow	July 21, 2010
A-208a	Functional Plan - Parking Level P2	July 21, 2010
A-208b	Graphic Plan - Parking Level P2	July 21, 2010
A-208c	Technical Plan - Parking Level P2	July 21, 2010
A-209a	Functional Plan - Parking Level P1	July 21, 2010
A-209b	Graphic Plan - Parking Level P1	July 21, 2010
A-209c	Technical Plan - Parking Level P1	July 21, 2010
A-210a	Functional Plan - Level 0 Laboratory	July 21, 2010
A-210b	Graphic Plan - Level 0 Laboratory	July 21, 2010
A-210c	Technical Plan - Level 0 Laboratory	July 21, 2010
A-210d	Furniture Plan - Level 0 Laboratory	July 21, 2010
A-211	Presentation Rendering (Interior Rendering)	July 21, 2010
A-211a	Functional Plan - Level 1 Emergency Department	July 21, 2010
A-211b	Graphic Plan - Level 1 Emergency Department	July 21, 2010
A-211c	Technical Plan - Level 1 Emergency Department	July 21, 2010
A-211d	Furniture Plan - Level 1 Emergency Department	July 21, 2010
A-212a	Functional Plan - Level 2 Neonatal Intensive Care Unit	July 21, 2010
A-212b	Graphic Plan - Level 2 Neonatal Intensive Care Unit	July 21, 2010
A-212c	Technical Plan - Level 2 Neonatal Intensive Care Unit	July 21, 2010
A-212d	Furniture Plan - Level 2 Neonatal Intensive Care Unit	July 21, 2010
A-213a	Functional Plan - Level 3 U.B.C. and Administration	July 21, 2010
A-213b	Graphic Plan - Level 3 U.B.C. and Administration	July 21, 2010
A-213c	Technical Plan - Level 3 U.B.C. and Administration	July 21, 2010
A-213d	Furniture Plan - Level 3 U.B.C. and Administration	July 21, 2010
A-213i	Interstitial Floor Plan	July 21, 2010
A-214a	Functional Plan - Level 4 Intensive Care Unit	July 21, 2010
A-214b	Graphic Plan - Level 4 Intensive Care Unit	July 21, 2010
A-214c	Technical Plan - Level 4 Intensive Care Unit	July 21, 2010
A-214d	Furniture Plan - Level 4 Intensive Care Unit	July 21, 2010
A-215a	Functional Plan - Level 5 High Dependency Care Unit/ Medical Surgical Unit	July 21, 2010
A-215b	Graphic Plan - Level 5 High Dependency Care Unit/ Medical Surgical Unit	July 21, 2010
A-215c	Technical Plan - Level 5 High Dependency Care Unit/ Medical Surgical Unit	July 21, 2010
A-215d	Furniture Plan - Level 5 High Dependency Care Unit/ Medical Surgical Unit	July 21, 2010
A-216a	Function Plan - Level 6 Medical/ Surgical Inpatient Care - Neurology Unit	July 21, 2010
A-216b	Graphic Plan - Level 6 Medical/ Surgical Inpatient Care - Neurology Unit	July 21, 2010
A-216c	Technical Plan - Level 6 Medical/ Surgical Inpatient Care - Neurology Unit	July 21, 2010
A-216d	Furniture Plan - Level 6 Medical/ Surgical Inpatient Care - Neurology Unit	July 21, 2010
A-217a	Functional Plan - Level 7 Medical/ Surgical Inpatient Care - Hemodialysis Capable Unit	July 21, 2010
A-217b	Graphic Plan - Level 7 Medical/ Surgical Inpatient Care - Hemodialysis Capable Unit	July 21, 2010

A-217c	Technical Plan - Level 7 Medical/ Surgical Inpatient Care - Hemodialysis Capable Unit	July 21, 2010
A-217d	Furniture Plan - Level 7 Medical/ Surgical Inpatient Care - Hemodialysis Capable Unit	July 21, 2010
A-218	Presentation Rendering	July 21, 2010
A-218a	Function Plan - Level 8 Mechanical Penthouse	July 21, 2010
A-219a	Level 9 Floor Plan - Helipad/ Roof Plan	July 21, 2010
A-219b	Graphic Plan - Level 9 Floor Plan - Helipad/ Roof Plan	July 21, 2010
A-250a	NICU Typical Room Layout	July 21, 2010
A-250b	NICU Typical Room Layout	July 21, 2010
A-251a	ICU Typical Room Layout	July 21, 2010
A-251b	ICU Typical Room Layout - Graphic	July 21, 2010
A-252a	HDCU Typical Room Layout	July 21, 2010
A-252b	HDCU Typical Room Layout	July 21, 2010
A-253a	Inpatient Typical Room Layout	July 21, 2010
A-253b	Inpatient Typical Room Layout	July 21, 2010
A-301	Rendered Elevation - West Elevation	July 21, 2010
A-302	Rendered Elevation - South Elevation	July 21, 2010
A-303	Rendered Elevation - North Elevation	July 21, 2010
A-304	Rendered Elevation - East Elevation	July 21, 2010
A-305	Presentation Rendering (Facility as seen from King George Highway)	July 21, 2010
A-310	Technical Elevation - West Elevation	July 21, 2010
A-311	Technical Elevation - South Elevation	July 21, 2010
A-312	Technical Elevation - North Elevation	July 21, 2010
A-313	Technical Elevation - East Elevation	July 21, 2010
A-401	Overall Site Sections	July 21, 2010
A-402	Building Section - North/ South	July 21, 2010
A-403	Building Section - East/ West	July 21, 2010
A-404	Building Section - East/ West (main entrance/ link)	July 21, 2010
A-405	Building Section - Building Link	July 21, 2010
Structural		
S-100	General Notes and Schedules	July 21, 2010
S-101	Typical Details: Sheet No.1	July 21, 2010
S-102	Typical Details: Sheet No.2	July 21, 2010
S-103	Pile Cap: Plans and Sections	July 21, 2010
S-104	Plans and Sections - Sheet 3	July 21, 2010
S-200	Level P2 Plan	July 21, 2010
S-201	Level P1 Plan	July 21, 2010
S-202	Level 0 Plan	July 21, 2010
S-203	Level 1 Plan	July 21, 2010
S-204	Level 2 Plan	July 21, 2010
S-205	Level 3 Plan	July 21, 2010
S-205i	Interstitial Level Plan	July 21, 2010
S-206	Level 4 Plan	July 21, 2010
S-207	Level 5 Plan	July 21, 2010
S-208	Level 6 Plan	July 21, 2010
S-209	Level 7 Plan	July 21, 2010
S-210	Level 8 Plan	July 21, 2010
S-211	Level 9 Plan	July 21, 2010
S-212	Helipad Plans and Sections	July 21, 2010
S-301	Link Sections	July 21, 2010
S-401	Building Sections	July 21, 2010
S-501	Medical Equipment Supports - 1	July 21, 2010
S-502	Medical Equipment Supports - 2	July 21, 2010
Mechanical		
M-0	Services Routing Plan	July 21, 2010
M-1	Level P2	July 21, 2010
M-2	Level P1	July 21, 2010

M-3	Level 0	July 21, 2010
M-5	Level 2	July 21, 2010
M-6A	Level 3 Interstitial	July 21, 2010
M-11	Penthouse Level	July 21, 2010
M-12	Helipad / Roof Level	July 21, 2010
M-13	HVAC Piping Schematic	July 21, 2010
M-14	HVAC Air Side Schematic	July 21, 2010
P-2	Level P2	July 21, 2010
P-3	Level P1	July 21, 2010
P-4	Level 0	July 21, 2010
P-5	Level 1	July 21, 2010
P-6	Level 2	July 21, 2010
P-7	Level 3	July 21, 2010
P-8	Level 4	July 21, 2010
P-9	Level 5	July 21, 2010
P-10	Level 6	July 21, 2010
P-11	Level 7	July 21, 2010
P-12	Level 8	July 21, 2010
P-14	Water Entry Room	July 21, 2010
P-15	Water Schematic	July 21, 2010
P-16	Medical Gas Distribution Schematic	July 21, 2010
F-1	Fire Protection Schematic	July 21, 2010
<u>Civil</u>		
C-001	Site Plan	July 21, 2010
C-002	Grading Plan	July 21, 2010
C-002a	Profiles	July 21, 2010
C-002b	Sections	July 21, 2010
C-003	Water Servicing Plan	July 21, 2010
C-004	Sanitary Sewer Plan	July 21, 2010
C-005	Storm Sewer Plan	July 21, 2010
C-006	Signing and Pavement Markings	July 21, 2010
C-007	Offsite Plan & Typical	July 21, 2010
<u>Electrical</u>		
E-000	Symbol Legend & Drawing List	July 21, 2010
E-101	Site Plan	July 21, 2010
E-102	Service Connection Plan	July 21, 2010
E-103	Site Lighting	July 21, 2010
E-201a	Single Line Diagram	July 21, 2010
E-201b	Single Line Diagram	July 21, 2010
E-201c	Single Line Diagram	July 21, 2010
E-201d	Single Line Diagram	July 21, 2010
E-208	Parking Level P2 - Electrical	July 21, 2010
E-209	Parking Level P1	July 21, 2010
E-210	Level 0 - Electrical (Laboratory)	July 21, 2010
E-211	Level 1 - Electrical (Emergency Department)	July 21, 2010
E-212	Level 2 - Electrical (Neonatal Intensive Care Unit)	July 21, 2010
E-213	Level 3 - Electrical (U.B.C. and Administration)	July 21, 2010
E-213i	Interstitial Floor Plan - Electrical	July 21, 2010
E-214	Level 4 - Electrical (Intensive Care Unit)	July 21, 2010
E-215	Level 5 - Electrical (High Dependency Care Unit / Medical Surgical Unit)	July 21, 2010
E-216	Level 6 - Electrical (Medical / Surgical Inpatient Care - Neurology Unit)	July 21, 2010
E-217	Level 7 - Electrical (Medical / Surgical Inpatient Care - Hemodialysis Capable Unit)	July 21, 2010
E-300	Main Electrical Room Layout	July 21, 2010
E-301	Typical Patient Room Layouts	July 21, 2010
E-302	Communication Room Layout	July 21, 2010
E-303	Communication Room Layout	July 21, 2010

E-304	Data Room Grounding Riser & Details	July 21, 2010
E-305	Communication Details	July 21, 2010
E-306	Pathway Riser Diagram	July 21, 2010
E-307	Fibre & Copper Backbone Riser	July 21, 2010
T-001	Network Infrastructure Requirements	July 21, 2010
T-002	Network Infrastructure Requirements	July 21, 2010
T-003	HVAC Architecture	July 21, 2010
T-004	Network Riser and Rack Elevations	July 21, 2010
V-000	General AV Overview	July 21, 2010
V-001	Audio Video Riser Schematic	July 21, 2010
V-100	Floor Plan - Level 0 (Laboratory)	July 21, 2010
V-101	Floor Plan - Level 1 (Emergency Department)	July 21, 2010
V-102	Floor Plan - Level 2 (Neonatal Intensive Care Unit)	July 21, 2010
V-103	Floor Plan - Level 3 (U.B.C. and Administration)	July 21, 2010
V-104	Floor Plan - Level 4 (Intensive Care Unit)	July 21, 2010
V-105	Floor Plan - Level 5 (High Dependency Care Unit / Medical Surgical Unit)	July 21, 2010
V-106	Floor Plan - Level 6 (Medical / Surgical Inpatient Care - Neurology Unit)	July 21, 2010
V-107	Floor Plan - Level 7 (Medical / Surgical Inpatient Care - Hemodialysis Capable Unit)	July 21, 2010
V-200	Conference Room Typicals	July 21, 2010
PES 001	Multi Media Terminal Solution	July 21, 2010
<u>Landscape</u>		
L-100	Site Plan	July 21, 2010
L-101	Landscape Plan - Level 1 North	July 21, 2010
L-102	Landscape Plan - Level 1 West	July 21, 2010
L-103	Landscape Plan - Level 1 South	July 21, 2010
L-104	Landscape Plan - Level 1 East	July 21, 2010
L-105	Landscape Plan - Level 0	July 21, 2010
L-106	Landscape Plan - Level 2 Roof	July 21, 2010
L-107	Landscape Plan - Level 3 Roof	July 21, 2010
L-108	Tree Assessment Plan	July 21, 2010
L-200	Grading Plan	July 21, 2010
L-300	Tree Plan	July 21, 2010
L-301	Planting Plan - North	July 21, 2010
L-302	Planting Plan - South	July 21, 2010
L-303	Planting Plan - Level 2 Roof	July 21, 2010
L-304	Planting Plan - Level 3 Roof	July 21, 2010
L-400	Landscape Sections	July 21, 2010
L-500	Details	July 21, 2010
L-501	Details	July 21, 2010
L-600	Rendered Plan	July 21, 2010
Alternate Laboratory Design		
<u>Architectural</u>		
A-001alt	Drawing List - Alternate Design	July 21, 2010
A-210alt	Alternate Plan Level 0	July 21, 2010
A-214alt	Alternate Plan Level 4	July 21, 2010
A-301alt	Alternate West Elevation	July 21, 2010
A-302alt	Alternate South Elevation	July 21, 2010
A-303alt	Alternate North Elevation	July 21, 2010
A-304alt	Alternate East Elevation	July 21, 2010
A-310alt	Technical Alternate West Elevation	July 21, 2010
A-311alt	Technical Alternate South Elevation	July 21, 2010
A-312alt	Technical Alternate North Elevation	July 21, 2010
A-313alt	Technical Alternate East Elevation	July 21, 2010
<u>Mechanical</u>		
P-17alt	Medical Gas Distribution Schematic	July 21, 2010

PART 2 – CLARIFICATIONS AND REVISIONS TO INITIAL DESIGN AND CONSTRUCTION PROPOSAL

Part 2a: the following is intended as a list of design issues raised by the Authority or ITS during the preferred proponent stage relating to portions of Project Co's Initial Design and Construction Proposal (Part 1), as revised by Parts 3 and 4 of these Proposal Extracts, that the parties have agreed to review and address during the design development stages after the Effective Date. Project Co and the Authority will act reasonably in addressing and concluding these issues during design development.

Description	Status/Action
Level 1 – Triage, registration and waiting	Revise the design of the triage, registration and waiting areas as necessary due to relocation of the pediatric zone to the north of triage
Level 1 - Mental Health zone redesign	Revise the design of the mental health zone in the Emergency Department to address visibility of the seclusion rooms from the care station and to improve patient flow and workflow
Level 1 - Seclusion Rooms	Revise the design of the seclusion rooms on Level 1, which rooms will be designed and sized in accordance with Ministry of Health Services standards
Level 1 – Satellite diagnostic imaging	Revise the design of the satellite diagnostic imaging zone in the Emergency Department in order to improve workflow and circulation
Level 1 - Care Station - relocate washrooms	Revise the design of the Emergency Department Care Stations, including the relocation of washrooms in order to have an unobstructed view to the treatment rooms from the care station
Level 1 – Treatment rooms	Confirm treatment rooms are wide enough to accommodate an emergency code scenario and increase the room size if required (with the understanding that the number of treatment rooms or other adjacent spaces may have to be reduced to increase the size of an individual treatment room)
Level 1 - Family grieving area - redesign	Revise the design of the family grieving area in order to improve the functionality of and circulation within this space
Level 1 - Additional support space required for ED	Determine requirements for additional patient washrooms, dirty utility rooms and clean utility rooms
Level 2 - Pharmacy requires modifications to ensure office and housekeeping integrated into space	Revise the design of the pediatric pharmacy in order to integrate office space and housekeeping space into the pediatric pharmacy.
Level 2 – Data Room Access	Redesign access to data room in NICU so that it is not accessed through the locker room.
Level 2 - doors missing in NICU to separate into zones	Project Co to provide doors in NICU in order to separate the department into different zones for the purpose of creating outbreak control zones
Level 2 – Size of Medication Rooms	Revise the design of the medication rooms, including consideration of size to ensure functionality.

Level 3 - Design of UBC space	Revise the design of the UBC space including improvement of adjacencies (for example, clinical teaching and public elevator, washrooms and clinical teaching, public access to library), to improve privacy (for example, in relation to call rooms), to increase the size of the library to include stacks and to relocate the medium UBC conference room to avoid interior columns
Level 3 – Administration Area	Revise the design of the administration area on the third floor based on SSDG schematic design to be provided by the Authority
Level 5 – Medication room, clean and dirty utility rooms	Revise the design of the medication rooms and clean and dirty utility rooms on ICU, including consideration of size to ensure functionality.
Level 5 – ICU Alcoves	Revise the design to include appropriate alcoves in ICU
Level 5 - Biomed and Renal storage	Revise the design of the ICU to include storage space for renal and bio medical.
Level 5 - Public space	Revise the design of the public space on ICU in order to improve the opportunity for the public to be welcomed, be received by a person at the reception desk and have an area to gather
Level 6 – Medication room, clean and dirty utility rooms	Revise the design of the medication rooms and clean and dirty utility rooms on HDCU, including consideration of size to ensure functionality.
Level 6 – HDCU booms	Project Co to confirm whether HDCU needs to be redesigned in order to ensure functionality of equipment booms and adequate clearance around patient beds within HDCU rooms
Level 6 – HDCU washrooms	Redesign washrooms to ensure they are accessible to disabled persons and of adequate size to permit 2 nurses to assist a patient (with the understanding that increased room sizes may require a program or accommodation schedule revision).
Level 6 - Biomed and Renal storage	Revise the design of the HDCU to include storage space for renal and bio medical.
Level 6 - Public space	Revise the design of the public space on HDCU in order to improve the opportunity for the public to be welcomed, be received by a person at the reception desk and have an area to gather
Level 6 - Possibly co-locate UBC	Consider the opportunity to co-locate UBC rooms on HDCU.
Levels 7 & 8 – Care stations	Revise the design of the care stations in order to provide better connection between the North and South pod care stations and to develop the central care station and reception as the hub of the unit
Levels 7 & 8 – Medication room, clean and dirty utility rooms	Revise the design of the medication rooms and clean and dirty utility rooms on Levels 7 & 8, including consideration of size to ensure functionality.
Levels 7 & 8 –Alcoves	Revise the design to include appropriate alcoves on Levels 7 & 8

Levels 7 & 8 – Washrooms	Redesign washrooms to ensure they are accessible to disabled persons and of adequate size to permit 2 nurses to assist a patient (with the understanding that increased room sizes may require a program or accommodation schedule revision).
Levels 7 & 8 - Biomed and Renal storage	Revise the design of Levels 7 & 8 to include storage space for renal and bio medical.
Levels 7 & 8 - Public space	Redesign public space on Levels 7 & 8 in order to improve the opportunity for the public to be welcomed, be received by a person at the reception desk and have an area to gather
Progressive Design	Project Co and the Authority will cooperate to conclude site utility service locations, structural element location, service room locations, service shaft locations and partition layout design in a manner consistent with the progressive development of the design.

Part 2b: the following is intended to reflect confirmation and/or clarifications made by Project Co relating to the Initial Design and Construction Proposal (see Part 1), as revised by Part 3 and Part 4:

Description/Issue	Status / Clarification
Temporary parking strategy	<p>To date, Project Co has identified two possible locations for off-site parking for construction workers. Discussions have been held with the Surrey Alliance Church on 96 Avenue where a potential 190 parking stalls could be available. Discussions have also started with the owner of empty lots on King George Blvd and 98 Avenue and 98b Ave for conversion into temporary parking lots. The City of Surrey has advised that a temporary usage permit could be obtained to allow on grade parking on the empty lots.</p> <p>Project Co will endeavour to have construction worker vehicles identified by vehicle window stickers which will be distributed for off site parking permitting. This will allow FHA parking authorities to identify a construction worker vehicle parked on the campus or on a restricted lot.</p>
Permanent Parking Solution	Project Co's permanent parking solution is described in the technical memo by MMM Group dated November 16, 2010 entitled "Permanent Parking Solution" (a copy of which is included in part 2 of these Proposal Extracts.)

<p>Projected draw of steam from SMH Campus steam plant</p>	<p>Project Co and the Authority will co-operate to review existing assumptions regarding use of steam at the Facility and the resulting draw from the SMH steam plant, and to identify mutually acceptable opportunities to reduce the draw on the SMH Campus steam plant.</p>
<p>Fire Pump: clarify how the proposed arrangement would work without upgrading the existing SMH Campus fire pump.</p>	<p>The existing fire pump will be used to cover the existing SMH Campus buildings and the new fire pump will be used to cover the new Facility. The fire department pumper connection from the Facility will be connected to the campus standpipe system. This means that the fire department can connect their pumper truck to any fire department pumper connection location within the SMH Campus to fight any fire on the SMH Campus.</p>
<p>Schedule 3 [Design and Construction Specifications] describes requirements for outbreak control zones and the mechanical systems support for the zones - the Proposal acknowledges compliance with those requirements. To ensure that your understanding of the outbreak control zones aligns with the intent of the Project Agreement, please provide a sketch of the outbreak control zone boundaries and an operational description of the mechanical systems.</p>	<p>Refer to section 1.3.2 Infection Prevention and Control of the Initial Design and Construction Proposal. The section has drawings of the different floors and how the floor plate is divided into smaller compartments. The HVAC will follow the same compartmentalization for infection control zones and a written description of the how the HVAC system will be used to control outbreaks is provided in section 1.3.10 (a) xvi of the Initial Design and Construction Proposal.</p>

<p>Provide tabulation of ventilation and total supply air rates for each space to confirm capacity and redundancy compliance. This includes confirmation of ICU rooms to be supplied with the required air changes.</p>	<p>The redundancy compliance has been calculated as follows:</p> <p>A= Calculated T/A supply air per department C = 10% to meet 7.4.4.2(5) Allow for a future increase in capacity of 10% on the capability of the air handling units. SAR= Supply air required R= Redundancy rate 7.4.4.1(7) For Class II and Class III areas, air handling units will provide redundant capacity approximately 70% capacity to the affected area.</p> <p>SAR=A + A x10%= Supply air required MTSA =SAR x R = Min Total Supply Air allowed</p> <p>Ex. Lab requires 22,000 cfm base on CSA SAR=A + A10%= Supply air required =22,000 + 22,000 x .10 =24,200 cfm MTSA =SAR x R= 24,200 x .7 = 16,940 cfm</p> <p>Minimum two handling required each sized for 17,000 cfm Normal operation, each air handler will run at 12,100 cfm</p> <p>ICU air change is 15 A/C</p>
<p>Clarify the proposed heat recovery heat pump/chiller system, and the extent to which recovery of energy is actually possible.</p>	<p>Project Co will provide clarification with appropriate Submittals to the Authority during the design process.</p>
<p>Clarify configuration and capacity of mechanical equipment. Provide schedule of all major mechanical equipment showing capacity and updated schematic drawings of all major mechanical systems.</p>	<p>Project Co will provide this information in appropriate Submittals to the Authority during the design process.</p>
<p>Clarify the operational intent of the HVAC piping design. Provide updated HVAC piping schematic drawing and written operational description</p>	<p>Project Co will provide this information in appropriate Submittals to the Authority during the design process.</p>

<p>Clarify the configuration of exhaust systems.</p>	<ul style="list-style-type: none"> •Washroom, janitor room, soil room etc (sanitary) exhaust air will duct together with an exhaust fan at the terminal end of system to exhaust to atmosphere. •General exhaust Lab air will be exhausted to atmosphere, with no ability to exhaust the air to the air handlers. •Hood and bio safe hood will be exhausted to atmosphere
<p>Clarify mechanical system reserve capacity with regards to equipment capacity and duct size.</p>	<p>Project Co will provide clarification with appropriate Submittals during the design process.</p>
<p>Revise emergency department isolation room exhaust fans and HEPA filters to be in an indoor location as opposed to on the roof, which is not compliant with Schedule 3 [Design and Construction Specifications].</p>	<p>The ED isolation room's HEPA filter section located on the 2nd floor roof will be housed within a shelter to protect maintenance staff from the weather, when replacing the HEPA filter.</p>
<p>There will be noise generating mechanical equipment above the ED at the level 2 roof. Clarify what sound attenuating measures that will be taken to ensure decibel levels within the horizontally and vertically adjacent occupied areas (including NICU) will be within an acceptable range.</p>	<p>Project Co will, working with an acoustic consultant, demonstrate to the Authority during design development and construction that its design will include sufficient sound attenuating measures to meet the noise criteria requirements set out in the Project Agreement for interior spaces, including NICU.</p>
<p>Confirm that the main electrical distribution equipment will be Certified for "seismic withstand capability" in accordance with Schedule 3 [Design and Construction Specifications] 7.7.11.2(2).</p>	<p>Confirmed - the main distribution centre will be seismic certified for zone 4 post disaster levels.</p>
<p>Confirm that the requirement to 'Design and construct the NICU and ICU so that they are capable of meeting their full functional requirements for a minimum period of 72 hours following a natural disaster or other incident' will be complied with electrically. Project Co is not responsible for emergency generator fuel supply or emergency generators but the equipment supplied by Project Co must be functional immediately following a natural disaster. Please confirm that the electrical distribution equipment that serves NICU and ICU will be Certified for "seismic withstand capability".</p>	<p>Confirmed - the distribution equipment will be certified for zone 4 post disaster levels. The UPS will not be certified.</p>
<p>As part of commissioning, confirm compliance to tables 10-2 and 10-3 of IEEE 519 by field measurements after building occupancy and under normal operating conditions, in accordance with 7.7.12.1(4) of Schedule 3 [Design and Construction Specifications].</p>	<p>Confirmed with the understanding that testing of the power systems will be done at the point of common coupling.</p>

<p>Confirm that all power wiring will be copper conductors per Schedule Three [Design and Construction Specifications].</p>	<p>Aluminum conductors will be used for feeders larger than 100amps rating.</p>
<p>As required by Schedule 3 [Design and Construction Specifications], the nurse Call system will be provided with ability for clinical staff to initiate a request for room cleaning by pressing a designated button on the control panel in a patient room. Please confirm that the Nurse Call system will be electronically interfaced in some manner to FM staff to automatically initiate response to such requests.</p>	<p>Confirmed - there will be a mechanism that will allow the FM staff to be alerted to room cleaning from the Nurse Call system.</p>
<p>The proposed live load allowance of 1.25 Kappa appears to conform with Schedule 3 [Design and Construction Specifications] for the interstitial floor provided it is considered an “accessible ceiling” space rather than a “mechanical room”. Please confirm it is an accessible ceiling and not a mechanical room, which are designed for a live load of 3.6 Kappa.</p>	<p>Project Co will confirm this point in appropriate Submittals to the Authority during the design process.</p>
<p>Present design for main lobby design so that Authority may review quality and functionality of space and elevator connections to parking levels.</p>	<p>Project Co will provide this information in appropriate Submittals to the Authority during the design process.</p>
<p>User Consultations and Design Review</p>	<p>Project Co and the Authority have co-operated to revise/develop the schedule for user consultations and submittals. Refer to the Submittal Schedule included in the Project Agreement. Project Co is not providing a User Group Allowance as described in the Initial Design and Construction Proposal.</p>

PART 3 – REVISED PROPOSAL DRAWINGS

<u>Architectural</u>		
A-208c	Technical Plan - Parking Level P2	December 1, 2010
A-209c	Technical Plan - Parking Level P1	December 1, 2010
A-210c	Technical Plan - Level 0 F.M. Space and Lecture Theatre	December 1, 2010
A-211c	Technical Plan - Level 1 Emergency Department	December 1, 2010
A-212c	Technical Plan - Level 2 Neonatal Intensive Care Unit	December 1, 2010
A-213c	Technical Plan - Level 3 U.B.C. and Administration	December 1, 2010
A-214c	Technical Plan - Level 4 Laboratory	December 1, 2010
A-215c	Technical Plan - Level 5 Intensive Care Unit	December 1, 2010
A-216c	Technical Plan - Level 6 High Dependency Care Unit/ Medical Surgical Unit	December 1, 2010
A-217c	Technical Plan - Level 7 Medical/ Surgical Inpatient Care - Neurology Unit	December 1, 2010
A-218c	Technical Plan - Level 8 Medical/ Surgical Inpatient Care - Hemodialysis Capable Unit	December 1, 2010
A-310	Technical Elevation - West Elevation	December 1, 2010
A-311	Technical Elevation - South Elevation	December 1, 2010
A-312	Technical Elevation - North Elevation	December 1, 2010
A-313	Technical Elevation - East Elevation	December 1, 2010
A-401	Overall Site Sections	December 1, 2010
A-402	Building Section - North/ South	December 1, 2010
A-403	Building Section - East/ West	December 1, 2010
<u>Structural</u>		
S-100	General Notes and Schedules	November 18, 2010
S-101	Typical Details: Sheet No.1	November 18, 2010
S-102	Typical Details: Sheet No.2	November 18, 2010
S-103	Pile Cap: Plans and Sections	November 18, 2010
S-104	Plans and Sections - Sheet 3	November 18, 2010
S-200	Level P2 Plan	November 18, 2010
S-201	Level P1 Plan	November 18, 2010
S-202	Level 0 Plan	November 18, 2010
S-203	Level 1 Plan	November 18, 2010
S-204	Level 2 Plan	November 18, 2010
S-205	Level 3 Plan	November 18, 2010
S-205i	Interstitial Level Plan	November 18, 2010
S-206	Level 4 Plan	November 18, 2010
S-207	Level 5 Plan	November 18, 2010
S-208	Level 6 Plan	November 18, 2010
S-209	Level 7 & 8 Plan	November 18, 2010
S-210	Level 9 Plan	November 18, 2010
S-211	Level 10 Plan	November 18, 2010
S-212	Helipad Plans and Sections	November 18, 2010
S-401	Building Sections	November 18, 2010
S-501	Medical Equipment Supports - 1	November 18, 2010
S-502	Medical Equipment Supports - 2	November 18, 2010