

A D D E N D U M

PROJECT TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION	ADD. NO: 2
TENDER NO: 2022-081201T	DATE: July 7 th , 2022
PAGE 1 of 2 (Including Confirmation Sheet)	

Make the following modifications to the above project. Include in the amount of the Tender, any additions to or deductions from the cost of the work by reason of these instructions.

Sign and attach this Addendum to the Tender documents and submit with your Tender. Failure to do so may result in the rejection of your Tender.

Please find attached Addendum #2.

The date for receiving tenders is extended to: Tuesday, July 19th, 2022 at 2:30:00PM Atlantic Time.

The date for enquiries is extended to: July 12th, 2022 at 4:00:00 PM Atlantic Time.

The date for issuing addenda #3 is July 14th, 2022 at 4:00:00 PM Atlantic Time.

Please note that in light of the current Covid-19 pandemic, there will be no public opening. Tenders will be opened by the Tender Opening Committee, in the second-floor boardroom, 175 Rothesay Avenue, Municipal Operations Complex, immediately following the tender closing time. <u>Registered bidders may</u> <u>attend remotely via Teams invitation.</u>

SIGN AND RETURN THIS ADDENDUM WITH YOUR PROPOSAL

Monic Macluar BY:

Monic MacVicar, CCLP, CPPB Procurement Specialist, Supply Chain Management

Contractor's Signature



A D D E N D U M

PROJECT TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION	ADD. NO: 2
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PAGE 2 of 2 (Including Confirmation Sheet)	

CONFIRMATION - RECEIPT OF ADDENDUM

Upon receipt of this document, fax this page to (506) 658-4742 to confirm receipt of this addendum.

CONTRACTOR'S NAME:		
ADDRESS:		
PHONE:	FAX:	
RECEIVER NAME (PRINT)		
RECEIVER SIGNATURE:		

ELECTRONIC TRANSMITTAL SHEET

TO: All Bidders

E-Mail:

DATE: July 7, 2022

TOTAL NUMBER OF PAGES (INCLUDING COVER PAGE)

FROM:

TEL. #: 658-2899

Supply Chain Management

IF YOU DID NOT RECEIVE ALL PAGES, OR FURTHER INFORMATION IS REQUIRED, PLEASE CONTACT THE SENDER.

MESSAGE:

TENDER NO. 2022-081201T

PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION

Please find attached, copy of <u>Addendum # 2</u> for above contract. Please complete the attached Acknowledgement Form confirming Receipt of Addendum and email back to City of Saint John.



MUNICIPAL OPERATIONS & ENGINEERING

175 Rothesay Avenue Saint John, NB E2J 2B4

A D D E N D U M

PROJECT TITLE:	ADDEND	UM NO:	2	
Public Space at Market Slip & Harbour Passage Extension	DATE	July 7	, 2022	
	PAGE	1	OF 2	1
	CONTRA	CT NO:	2022-08120)1T
	-			

MAKE THE FOLLOWING MODIFICATIONS TO THE ABOVE PROJECT. INCLUDE IN THE AMOUNT OF THE TENDER ANY ADDITIONS TO OR DEDUCTIONS FROM THE COST OF THE WORK BY REASON OF THESE INSTRUCTIONS. THE DATE FOR RECEIVING TENDERS IS EXTENDED TO: July 19th, 2022. Question period closes July 12th 2022 and the final addendum will be issued on the July 14th 2022.

GENERAL QUESTIONS

- 1. Question Could we have a specific timeline for the city supplied materials Answer – Please refer to Site Coordination Drawing – RFP INFO SUMMARY.
- Question Can we demo washroom building as moving is not feasible due to cost to relocate and size and construction of building. Answer – No. A line item has been included in Division 4.5 for relocation of existing washroom building.
- 3. Question Will they accept substitutes of plants as all will not be available in that quantity Answer See City of Saint John General Specification 6.36 Equivalents.
- 4. Question Could the city supply miscellaneous metal structures. Answer – No.
- 5. Question Would the city consider removing audio video equipment and other specialty items from the contract as no one will price for 12-18 months delivery or will the city pay for material onsite but not installed.

Answer – For payment of materials on site see general specification 6.21.01 interim payments.

6. Question - will there be any protection for cost increases for metal, plants, rebar, concrete and diesel fuel.

Answer – No.

- Question Are there any cash flow restrictions on this project? Answer – Payment will be in accordance 6.20 Completion and 6.21 payment certificates.
- **8.** Question will we have to carry an additional insurance for city supplied items and if what values.

Answer – See General specification article 7.6.02 Supply, Delivery and Storage.

GENERAL ITEMS

The contractor will supply a site office for the duration of construction that will facilitate the following;

- An office for the lead consultant or their representatives to use while visiting the site.
- An meeting space to be available for use by contractor and consultant.
- Power and Air Conditioning.
- Contractor to furnish trailer.

Cost for site office to be included under Division 4.5 item T1.

TO THE DRAWINGS

The attached drawings M4.1, M4.2 and M4.3 have been added to the drawing package. The work shall entail all underground ventilation - HDPE direct burial duct system. The price of this work shall fall under Division 4.5 MISC item no 6.

TO DIVISION 4.5 – SCHEDULE OF QUANTITIES

Replace Division 4.5 with Issued for Addendum No.2 version

<u>Note</u>: Signed copy of the addendum <u>must</u> be enclosed in the tender documents, according to the Instructions to Tenderers and Tendering Procedures in Division 2 of the Contract Specifications.

BY:

Monic MacVicar, CCLP, CPPB Procurement Specialist, Supply Chain Management CONTRACTOR'S SIGNATURE

TO BE SIGNED AND ATTACHED TO TENDER DOCUMENTS



MUNICIPAL OPERATIONS & ENGINEERING

175 Rothesay Avenue Saint John, NB E2J 2B4 *EMAIL TO: supplychainmanagement@saintjohn.ca*

City of Saint John

ACKNOWLEDGEMENT FORM CONFIRMING RECEIPT OF ADDENDUM

2

CONTRACT NO:	2022-081201T			
		I		

ADDENDUM NO:

DATE

July 7, 2022

Rev. April 26, 2005

/ac

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DECODIDION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
A	WATER						
1	Pipelaying & Jointing: Watermain - Supply & <u>Install</u>	7, 10					
	25mm Ø Municipex cross-linked polyethylene (PEX) or Q-line (PE RT) Tubing including tracer wire and connections (Fountain tubing)		LS	1			
	25mm Ø Municipex cross-linked polyethylene (PEX) or Q-line (PE RT) Tubing including tracer wire, heat trace and connections		m	65			
с	19mm Ø Municipex cross-linked polyethylene (PEX) or Q-line (PE RT) Tubing including tracer wire and connections		m	55			
d	150mm Ø PVC, DR18, Class 150 or approved equal including tracer wire and connections		m	6			
e	Supply and install 50mm thick insulation		m²	21			
f	Non-freeze post-mount hydrant		Each	2			
g	Flush-mount, non-freeze ground hydrant		Each	1			
	Fire hydrant complete, including anchor tee, 150mm GV, 130mm VB, restraints, concrete thrust blocks, vertical piping, polyethylene encasement, tracer wire and Storz pumper nozzle		Each	1			
	Free standing inlet fire depatrment connection including anchor tee, restraints, concrete thrust blocks, vertical piping, polyethylene encasement, tracer wire, concrete core, and repair to waterproofing membrane as required.		Each	1			

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DESCRIPTION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
2	Contingency	2.6.03	LS	1	Seven Thousand Nine Hundred Dollars and Zero Cents	7,900.00	7,900.00
	AMOUNT "A" (WATER)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM				EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	TION DIV. NO. UNIT	QTY.	WRITTEN	UMERICAL	(\$)	
В	STORM SEWER						
	Pipelaying & Jointing: Storm Sewer - Supply & <u>Install</u>	7, 11					
	200mm Ø PVC, DR35 with gasket or approved equal		m	37.7			
	250mm Ø PVC, DR35 with gasket or approved equal		m	29.9			
	375mm Ø PVC, DR35 with gasket or approved equal		m	23			
	450mm Ø concrete, class III with gasket or approved equal inc. gasket, fittings and apputtenances (bedding stone, filter fabric, check valve, etc.)		m	25.7			
	1050mm Ø concrete, class 5 outfall for salt water exposure inc. gasket, joint restraints fittings and apputtenances (bedding stone, filter fabric, check valve, etc.)		m	40			
	Connection of new 200mm Ø pipe to existing 200mm Ø pipe incl. coupling		Each	1			
-	Core drill opening into existing pre-cast manhole and connect new pipe		Each	7			
h	Brick and grout pipe(s) inside existing manhole		Each	4			
i	Supply and install 50mm thick insulation		m²	20			
	Cleaning and video 900mm Ø storm sewer. Work includes all works required for access, CCTV video of cleaned lineas required.		m	60			

UNIT PRICE TO BE EITHER

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DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DECODIDEION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
2	Manholes - Supply & Install	12					
	317x317 Stainless Steel drain box for skating rink drainge, complete with all connections		Each	1			
	750mm Ø precast catch basin manhole, complete with City standard frame and Iron Age cover, incl. all connections		Each	1			
	1050mm Ø precast catch basin manhole, complete with City standard frame and Iron Age cover, incl. all connections		Each	1			
	Supply and install precast concrete headwall complete with wing walls. Installation includes connection to storm sewer and all necessary excavation and backfill		Each	2			
	Supply & install culvert outlet grate - to be used at all storm sewer outlet locations where pipe \emptyset < 1050mm.		Each	2			
	Supply & install trench drain and grate, including concrete, PVC bend, eccentric reducer and connection to existing service laterial		Each	7			
g	Supply of spare Iron Age catchbasin cover		Each	4			
3	<u>Contingency</u>	2.6.03	LS	1	Twenty Six Thousand Two Hundred Dollars and Zero Cents	26,200.00	26,200.00
	AMOUNT "B" (STORM SEWER)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

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ITEM	DECODIDEION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
С	ADJUSTMENT OF STRUCTURES						
	Adjustment and Rebuilding of Manholes, Catch Basins and Valve Boxes	12, 03					
	Adjust top section to finish grade as required, using <u>existing</u> frame & cover or frame & grate including top 5 cm		Each	30			
	Adjust top section to finish grade as required, using <u>new</u> Standard frame & grate including top 5 cm		Each	1			
2	<u>Contingency</u>	2.6.03	LS	1	One Thousand Two Hundred and Fifty Dollars and Zero Cents	1,250.00	1,250.00
	AMOUNT "C" (ADJUSTMENT OF STRUCTURES)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

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ITEM	DECODIDION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
D	SITE WORK						
1	Drain Tile						
а	100mm Ø PVC DR35 including connections, excavation, geotextile, fabric and backfill	13, 24	lm	50			
b	150mm Ø PVC DR35 including connections, excavation, geotextile fabric, and backfill	13, 24	lm	800			
2	Excavation						
а	Rock Excavation	13	m ³	100			
b	Common Excavation	13	LS	1			
3	<u>Granular & Rip Rap</u>						
a	Granular Base (crushed rock, Type 1 Fill) under unit pavers, asphaltic cement, tidal steps and Rock Pool Pad	13	m ³	1465			
b	Granular Sub-base (crushed rock, Type 2 Fill) under unit pavers	13	m³	2500			
с	Granular Sub-Base (pit run gravel, Type 3 Fill) under unit pavers, asphaltic cement and Rock Pool Pad	13	m ³	2100			
с	Granular Sub-Base (pit run gravel, Type 3 Fill) used to bring site to grade	13	m ³	5600			
d	Drainage Stone	13	m ³	100			
e	Bedding Sand placement only	13	m ³	50			

SCHEDULE OF QUANTITIES AND UNIT PRICES

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ITEM	DECODIDITION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
f	R25 Rip Rap Supply and placement	20	tonnes	225			
g	R250 Rip Rap Supply and placement	20	tonnes	185			
	Random Rip Rap placement only of city supplied onsite material	20	LS	1			
i	Placing of onsite city supplied sand	13	LS	1			
4	Fabrics & Insulation						
а	Geotextile Fabric Tidal Steps	13, 313219.01	m²	982			
b	Geogrid Under Pavers	13, 313219.01	m²	1171			
с	Silt Fence	13	lm	500			
d	Check Dam	13	Each	3			
е	Door Pad Insulation	13	Each	16			
f	Floating Silt Fence		lm	50			
g	Erosion Sedimation and Control Plan.		LS	1			
5	<u>Contingency</u>	2.6.03	LS	1	Fifty Two Thousand Eight Hundred Dollars and Zero Cents	52,800.00	52,800.00
	AMOUNT "D" (SITE WORK)						

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NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
E	ASPHALT						
1	50mm upper course <0.3 million ESALs	27	tonnes	275			
2	50mm lower course <0.3 million ESALs	27	tonnes	275			
3	Asphalt epoxy coating	27, 321216.02	m²	2032			
4	<u>Contingency</u>	2.6.03	LS		Nineteen Thousand Three Hundred Dollars and Zero Cents	19,300.00	19,300.00
	AMOUNT "E" (ASPHALT)						

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ITEM	DECODIDION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
F	GRANITE						
1		040513 321413	Each	9			
2		040513 321413	m²	377			
3	Install City supplied Granite Slab Landings on Concrete Base including bonding agent, anchor pins and cutting to fit	040513	m²	80			
4	Install City supplied Granite Slabs (salvaged granite curb) on Concrete Walls including bonding agent, anchor pins and cutting to fit	040513	Lm	68			
5	Install City supplied Granite Slabs (Island Extrusions) on Grade including base gravel	040513	Each	97			
6	Supply and install Granite Boulders including base gravel	040513	Each	36			
7	Install City supplied Granite Steps on concrete base including bonding agent, pins, and cutting as necessary	040513	Each	101			
8	Install City supplied Pilot Granite Blocks including base gravel	040513	Each	4			
9	Install City supplied Reclined Retaining Wall Granite Blocks on concrete base including bonding agent, pins, and cutting as necessary	040513	Each	24			

SCHEDULE OF QUANTITIES AND UNIT PRICES

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ITEM	DECODIDION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
	Install Contractor Supplied Granite Steps on concrete base including bonding agent, pins, and cutting as necessary	040513	Each	50			
	Install City Supplied Amphitheatre Granite Blocks on concrete base including bonding agent, pins, and cutting as necessary	040513	Each	32			
12	<u>Contingency</u>	2.6.03	LS		Twenty Eight Thousand Seven Hundred Dollars and Zero Cents	28,700.00	28,700.00
	AMOUNT "F" (GRANITE)						

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ITEM	DECODIDITION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
G	CONCRETE						
1	Portland Cement Concrete (Mud Slabs) under tidal granite steps, slabs & walls	23, 031000	m ³	40			
2	Reinforced Portland Cement Concrete under tidal granite steps, slabs & walls	23, 032000	m ³	20			
3	Reinforced Portland Cement Concrete Retaining Walls Tidal Steps	23, 032000	Lm	36			
4	Reinforced Portland Cement Concrete Retaining Walls Tidal Steps	23, 032000	Lm	12			
5	Rock Pool Stamped and Coloured Portland Cement Concrete including joint cutting and sealer	23, 033000	m²	155			
6	Concrete, reinforced Light Bases inclusive of conduit in base for Shuffle & Bora	23, 032000	Each	58			
7	<u>Glazed Structure Concrete Foundations and</u> <u>Coordination of Architectural M&E Works (by</u> <u>Others)</u>	23, 133413	Each	16			
8	Concrete Sidewalk Coloured	23, 033000	m²	50			
9	Concrete Curb	23	lm	60			
10	Concrete Curb and Gutter	23	lm	90			
11	Lighthouse Roof Structure	23	LS	1			

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ITEM	DESCRIPTION	DIV. NO. U		EST.	UNIT BID PRICE		TOTAL
NO.			UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
12	<u>Contingency</u>	2.6.03	LS	1	Sixty One Thousand Dollars and Zero Cents	61,000.00	61,000.00
	AMOUNT "G" (CONCRETE)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

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ITEM	DECODIDITION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
Н	ICE RINK						
	Install City supplied Chiller and Equipment Installation, glycol, commissioning for a full working system	132000	LS	1			
		23, 032000, 033000, 132000, 133000	m²	562			
3	Crushed Rock Base	13	m ³	85			
4	Pit Run Sub base	13	m ³	170			
5	<u>Screenings</u>	13	m ³	42			
6	<u>Contingency</u>	2.6.03	LS	1	Fifty Nine Thousand Dollars and Zero Cents	59,000.00	59,000.00
	AMOUNT "H" (ICE RINK)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

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ITEM	DECODIDITION	DIV. NO.		EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
I	BUILDING STRUCTURES						
	Stage/Washrooms/Green Room/M&E Room including foundation, excavation and backfill		LS	1			
2	<u>Contingency</u>	2.6.03	LS	1	Seventy Seven Thousand One Hundred Dollars and Zero Cents	77,100.00	77,100.00
	AMOUNT "I" (BUILDING STRUCTURES)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

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ITEM	DECODIDITION	DIV. NO.		EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION		UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
J	CARPENTRY						
	IPE Cladding on textured concrete walls including hardware, spacers, oil sealer	061001, 062000	m²	35			
2	<u>Contingency</u>	2.6.03	LS	1	Eight Hundred Dollars and Zero Cents	800.00	800.00
	AMOUNT "J" (CARPENTRY)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

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NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
к	LANDSCAPING						
1	Supply and install Topsoil	329119.13	m³	122			
2	Supply and install Planting Soil	329119.13	m ³	1110			
3	Supply and install Sodding	329223	m²	610			
4	Supply and install planting of trees, shrubs and ground cover	329310	LS	1			
5	Supply and install Silva Cells	329451	m ³	165			
6	Supply and install Silva Cell Planting Soil	329456	m ³	150			
7	Supply and install Tree Root Barrier	329456, 329413	m²	170			
8	<u>Contingency</u>	2.6.03	LS	1	Thirty Seven Thousand Three Hundred Dollars and Zero Cents	37,300.00	37,300.00
	AMOUNT "K" (LANDSCAPING)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

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L	MECHANICAL						
1	Louvre Vent Stack ducts and piping		LS	1			
	Coordination of Patio Air Handling and Heating (by others)		LS	1			
	Install City supplied Rock Pool Equipment, and various requirements in buidling and on pad	440000	LS	1			
4	<u>Contingency</u>	2.6.03	LS	1	Fifteen Thousand Five Hundred Dollars and Zero Cents	15,500.00	15,500.00
	AMOUNT "L" (MECHANICAL)						

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NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
М	ELECTRICAL						
1	<u>Island</u>						
	Island 1 - Tree light, City Supplied Light Fixture installation Complete with trench (T6) and wiring back to island 2		LS	1			
b	Island 2 Tree Light Posts, city supplied Light Fixture Installation Complete with trench (T6) and wiring back to Island 3		LS	1			
с	Island 3 Tree Light Posts, city supplied Light Fixture Installation Complete with trench (T6) and wiring back to island 4		LS	1			
	Island 4 Tree Light Posts, city supplied Light Fixture Installation Complete with trench (T6) and wiring back to island 5		LS	1			
e	Island 5 Tree Light Posts, city supplied Light Fixture Installation Complete with trench (T6) and wiring back to Stage Building Electrical Room		LS	1			
f	Island 9 City Supplied Light Fixture installation, wiring and trench (T6) to island 10		LS	1			
g	Island 10 City Supplied Light Fixture installation, wiring and trench (T6) back to stage electrical room		LS	1			
h	Island 11 Tree light Posts, city supplied Light Fixture Installation, wiring and trench (T6) back to Island 10		LS	1			

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NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN NUMERICAL	(\$)
	Island 12 tree light posts complete with plug, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1		
	Island 13 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1		
	Island 14 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1		
	Island 15 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1		
	Island 16 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1		
	Island 17 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1		

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SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

		TOTAL
WRITTEN	NUMERICAL	(\$)

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM				EST.	UNIT BID PRICE	TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN NUMERICAL	(\$)
	Tidal Steps Wiring, Conduit, controls, and light fixtures for Sea Wall Wall Wash along Fundy Quay and promanade		Each	10		
4	Stage Building					
	Conduit and wiring from Stage Building to Splash Pad. Wiring of splash pad components back to distribution		Lm	50		
	Stage RGB wall wash lighting, Ice Rink RGB Lighting complete with controls, wiring and fixtures		Each	14		
	Stage Building Washrooms, Electrical Room, Mechanical Room, and Basement Lighting, wire, conduit, control devices. Stage Concert lighting and twist lock receptacles complete with wiring and DMX cable back to Green Room. Stage sound equipment audio console, audio snakes, speakers, monitors, power amplifiers, power conditioner, input devices, stands and installation	276000	LS	1		
	Chiller power wiring and controls wire complete with conduits		LS	1		
	Video system LED exterior mounted screens (two sets of 6)	276000	Each	12		
f	Sound Booth Conduits and pull ropes (T6)		lm	30		
	Electrical Distribution equipment complete with feeders cables and mounting Hardware		Each	1		

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DESCRIPTION			EST.	UNIT BID PRICE		TOTAL
NO.		DIV. NO.		QTY.	WRITTEN	NUMERICAL	(\$)
	Primary Conduit (T1) and secondary conduits complete with cabling (T7)		lm	140			
i	Site Wifi Wiring, Configuration		LS	1			
5	Patio						
	Enclosed Patio receptacles complete with wiring to tenant unit panels. Conduits for service station within patio space		Each	5			
	Building Wall Wash Above Patio Fixtures, wiring, and conduit back to island 14		Each	20			
6	<u>Contingency</u>	2.6.03	LS	1	Fifty Thousand Three Hundred Dollars and Zero Cents	50,300.00	50,300.00
	AMOUNT "M" (ELECTRICAL)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM				EST.	UNIT BID PRICE	TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN NUMERI	CAL (\$)
N	EXTERIOR CUSTOM BUILT SITE FURNISHINGS					
1		323700, 055000, 061001, 062000	LS	1		
2	Pilot Deck inclusive of concrete, wood deck	323700, 055000, 061001, 062000	LS	1		
3	Pilot Wing Bench inclusive of concrete, gravel, fasteners, metal, wood	323700, 055000, 061001, 062000	LS	1		
4	Rock Pool Deck inclusive of concrete, gravel, wood, deck	323700, 055000, 061001, 062000	LS	1		
5	<u>Tidal Step Deck 1 inclusive of concrete, gravel,</u> wood, deck	323700, 055000, 061001, 062000	LS	1		
6		323700, 055000, 061001, 062000	LS	1		
7	Table for Two fabrication and installation including electrical work	323700, 055000, 061001, 062000	Each	2		
8	Chip Lounger including concrete foundation	323700	Each	12		
	Amphitheatre Seats inclusive of concrete, gravel backfill, draintile, wood deck, metal work, fasteners and oil sealer	323700, 055000, 061001, 062000	LS	1		
10	Amphitheatre Stage inclusive of gravel, draintile, concrete, wood, fasteners, sealer	323700, 055000, 061001, 062000	LS	1		
11	Suspended Bench inclusive of all materials, sand placement and installation	323700, 055000, 061001, 062000	Each	2		

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DECODIDITION			EST.	UNIT BID PRICE	TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN NUMERICAL	(\$)
	Weir Poles inclusive of wood poles and foundations	323700, 055000, 061001, 062000	Each	12		
13	Pilot Photo Op inclusive of set of two aluminum poles, foundation	323700	Each	2		
14	Supply and install Linear Interpretive Panel - aluminum panel printed with interpretive story	323700, 055000, 061001, 062000	Each	2		
15	Supply and install Freestanding Interpretive Sign inclusive of aluminum sign and concrete foundation	323700, 055000, 061001, 062000	Each	4		
16	Supply and install Curved Interpretive Sign inclusive of aluminum sign and concrete foundation	323700, 055000, 061001, 062000	Each	2		
17	Supply and install Wayfinding Pillar inclusive of aluminum sign and concrete foundation	323700, 055000, 061001, 062000	Each	3		
	Point Zero inclusive of metal fabrications, painting, erection	323700, 055000, 061001, 062000	LS	1		
	Hostess Station inclusive of wood framing, IPE electrical and data connection and concrete base	022000, 061001, 062000, 323700	Each	5		
20	Lounger Deck 1 inclusive of concrete, wood	022000, 061001, 062000, 323700	LS	1		
21	Lounger Deck 2 inclusive of concrete, wood	022000, 061001, 062000, 323700	LS	1		

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION TITLE: **ISSUED FOR ADDENDUM NO. 2**

ITEM	DECODIDITION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
22		022000, 061001, 062000, 323700	LS	1			
23		022000, 061001, 062000, 323700	LS	1			
	Games table inclusive of metal fabrication and installation	323700	Each	3			
25	Supply and Install Swing Gate	055000	LS	1			
26	<u>Contingency</u>	2.6.03	LS	1	Eighty Two Thousand Three Hundred Dollars and Zero Cents	82,300.00	82,300.00
	AMOUNT "N" (EXTERIOR CUSTOM BUILT SITE FURNISHINGS)						

UNIT PRICE TO BE EITHER

PRINTED IN INK IN WORDS

TYPEWRITTEN OR

AND PRINTED

NUMERICALLY

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DECODIDION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
0	EXTERIOR MANUFACTURED SITE FURNISHINGS						
1	Supply and install Trash/Recycling Bin including concrete base	23, 323700	Each	14			
2	Supply and install Retractable Bollard including concrete	23, 323700	Each	17			
3	Supply and install Fixed Bollard including concrete	23, 323700	Each	6			
4	Supply and install Bench with Back	323700	Each	14			
5	Supply and install Backless Bench	323700	Each	2			
6	Supply and install Bike Rack	23, 323700	Each	10			
7	Supply and install Bike Shelter	323700	Each	1			
8	Supply and install Gabion Bench 1- Canyon Fusion 6' (a & b)(6' linear bench with Plastisol coated metal seat)	323700	Each	4			
9	Supply and install Gabion Bench 2- Canyon Edge (6' linear bench with thermory wood seat)	323700	Each	22			
10	Supply and install Gabion Bench 3- Canyon Edge R18' (R18' curved bench with thermory wood seat)	323700	Each	11			

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM		DIV		EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	ERICAL	(\$)
11	Supply and install Gabion Bench 4- Canyon Edge 4' (4' linear bench with theromory wood seat)	323700	Each	5			
12	Supply and install LED Lounge Chair	323700	Each	4			
13	Supply and install LED Sofa	323700	Each	2			
14	Supply and install LED Table	323700	Each	4			
15	Supply and install Bistro Chair	323700	Each	12			
16	Supply and install Bistro Table	323700	Each	6			
17	Supply and install Shade Sail, inclusive of foundations, custom steel poles and fabric sail	323700	LS	1			
18	Supply and install Wave Lounger	323700	Each	13			
19	Supply and install Planter 1 (40" long)	323700	Each	42			
20	Supply and install Planter 2 (32" long)	323700	Each	4			
21	Supply and install Planter 3 (60" long)	323700	Each	2			
22	Supply and install Planter 4 (72" long)	323700	Each	1			
23	Supply and install Skateboard Deterrent	323700	Each	182			
24	Supply and install Trellis- Straight including concrete	23, 323700	Each	4			
25	<u>AY Bean Bag Toss (set)</u>	323700	Each	1			

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM			UNIT	EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.		QTY.	WRITTEN	NUMERICAL	(\$)
26	Cast Aluminum Fish	323700	LS	1			
27	<u>Windscreen</u>	323700	Each	3			
28	Concrete Sculpture Footing	032000, 033000	LS	1			
29	Banked Harbour Passage Concrete Turn	032000, 033000	LS	1			
30	<u>Contingency</u>	2.6.03	LS	1	Eighty Eight Thousand Three Hundred Dollars and Zero Cents	88,300.00	88,300.00
	AMOUNT "O" (EXTERIOR MANUFACTURED SITE FURNISHINGS)						

SHEET: 28 OF 35

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DECODIDION		UNIT	EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.		QTY.	WRITTEN	NUMERICAL	(\$)
Р	HANDRAILS						
1	Install City supplied Seawall railing posts, cable and fasteners	055000	lm	480			
2	Supply and install Stair & Ramp railings	055000	lm	16			
3	Supply and install Glass Panels and Rails on precast concrete walls and pavers	055000	lm	46			
4	<u>Contingency</u>	2.6.03	LS	1	Twenty one Thousand Eight Hundred Dollars and Zero Cents	21,800.00	21,800.00
	AMOUNT "P" (HANDRAILS)						

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED

NUMERICALLY

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DECODIDION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO. UNIT	QTY.	WRITTEN	NUMERICAL	(\$)	
1	PRECAST CONCRETE Install City supplied Concrete Unit Pavers including leveling sand, joint sand	321413	m²	5100			
2	<u>Sealer, two coats</u>	321413	m²	700			
	Supply and install Precast Concrete Retaining Walls	370000	m²	85			
	Supply and install Precast Concrete Steps Treads	370000	lm	22			
5	<u>Contingency</u>	2.6.03	LS	1	Sixty Six Thousand Eight Hundred Dollars and Zero Cents	66,800.00	66,800.00
	AMOUNT "Q" (PRECAST CONCRETE)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DECODIDION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
R	SYNTHETIC RUBBER SURFACING						
	Supply and install 115mm thick Synthetic Rubber Surfacing and 150mm gravel base	027920	m²	63			
2	<u>Contingency</u>	2.6.03	LS	1	One Thousand Four Hundred Dollars and Zero Cents	1,400.00	1,400.00
	AMOUNT "R" (SYNTHETIC RUBBER SURFACING)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DECODIDITION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
S	ISLAND EDGES						
1	<u>Island #1 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			
2	<u>Island #2 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			
3	<u>Island #3 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			
4	<u>Island #4 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			
5	<u>Island #5 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			
6	<u>Island #6 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			
7	<u>Island #7 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			
8	<u>Island #15 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			
9	<u>Island #14 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			
10	<u>Island #12 - Concrete, wood, deck, aluminum</u> panels, granular base	23, 055000, 061001, 062000	LS	1			

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DESCRIPTION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
11	Contingency	2.6.03	LS	1	Thirty Seven Thousand Five Hundred Dollars and Zero Cents	37,500.00	37,500.00
	AMOUNT "S" (ISLAND EDGES)						

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM	DECODIDITION			EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
Т	MISCELLANEOUS						
	Demolition of identified items for removal from site or reuse including excess material, fencing, all materials, equipment, grading, compaction, shop drawings, mockups, labour, permits, and work not covered in any other unit price item	024113	LS	1			
	<u>Glazed Structure (Owner Supply) Erection by</u> Open Aire paid by Contractor	133413	LS	1	Two Hundred Thirty Thousand Dollars and Zero Cents	230,000.00	230,000.00
	Saint John Energy Equipment and Cabling Allowance		LS	1	Twenty Five Thousand Dollars and Zero Cents	25,000.00	25,000.00
4	Building Permit Allowance		LS	1	Twenty Two Thousand Nine Hundred and Fifty Dollars and Zero Cents	22,950.00	22,950.00
	Relocation of Existing Washroom building located on site		LS	1			
	U/G Patio Infastructure as identified on M4.1 through M4.3		LS	1			
7	<u>Contingency</u>	2.6.03	LS	1	Forty Four Thousand Dollars and Zero Cents	44,000.00	44,000.00
	AMOUNT "T" (MISCELLANEOUS)						

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED

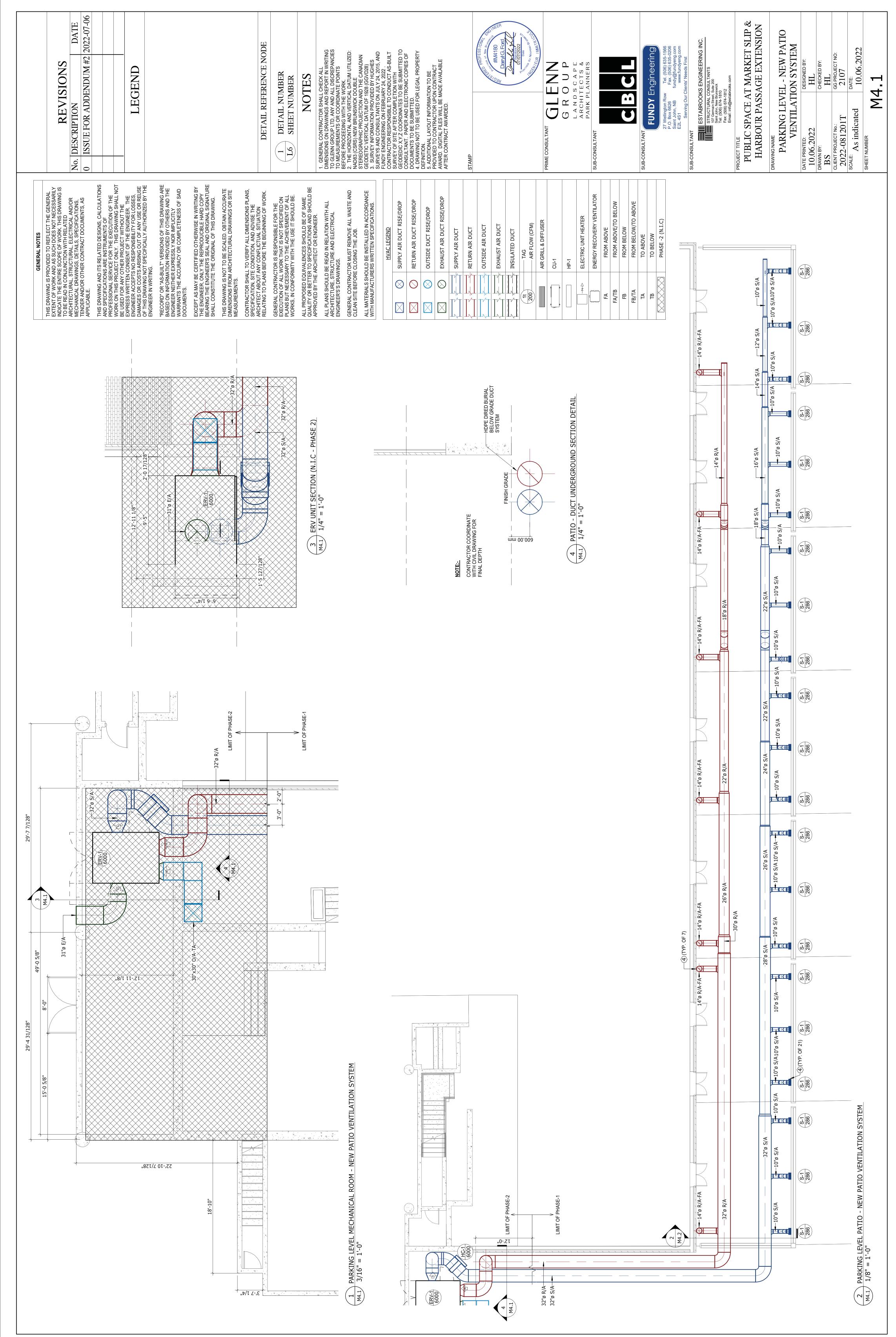
NUMERICALLY

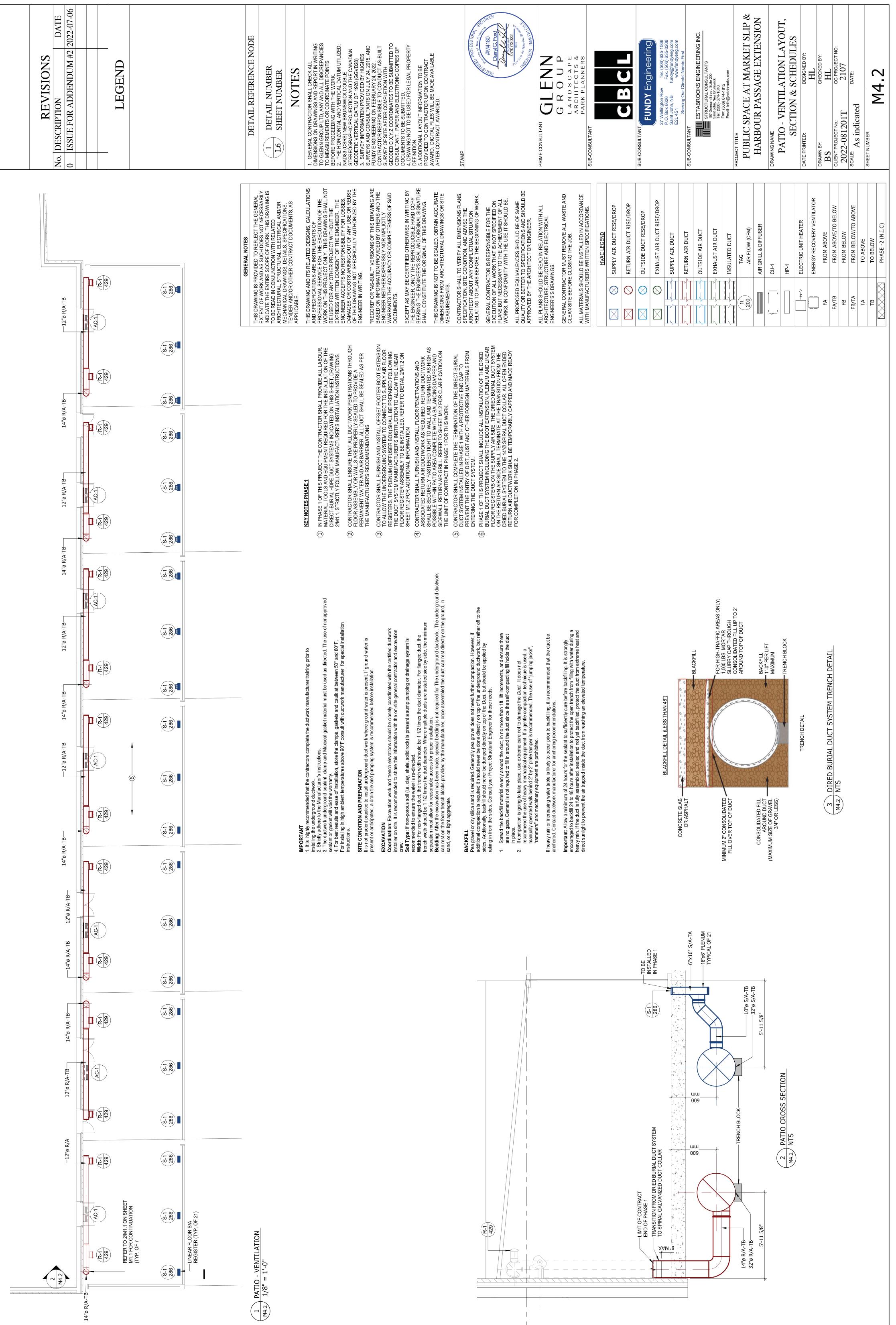
SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION ISSUED FOR ADDENDUM NO. 2

ITEM				EST.	UNIT BID PRICE		TOTAL
NO.	DESCRIPTION	DIV. NO.	UNIT	QTY.	WRITTEN	NUMERICAL	(\$)
	SUBTOTAL (A + B + C + D + E + F + G + H + I + J + K + L + M + N + O + P + Q + R + S + T)						
	HARMONIZED SALES TAX (HST) 15 %						
	TOTAL INCLUDING HST						





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cts, furnished specialties and accessories

vations, sections, details, and attachments to other work. ights, loads, required clearances, method of field assembly, compc nended by the man id internal and external bracing if recorr

ance manuals. include installation and

and Section 7 nt" 62.1, Section 5 - "Systems and Equip

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113.11.1. CONTACT INFORMATION IN THE PROJECT.
1.13.1.1. CONTACT INFORMATION: NAME AND CONTACT INFORMATION OF ALL CONTRACTORS AND SUB-CONTRACTORS INVOLVED IN THE PROJECT.
1.13.1.2. SUPPLIERS: NAME AND CONTACT INFORMATION OF ALL SUPPLIERS OF MAJOR EQUIPMENT USED IN THE PROJECT.
1.13.1.3. SUBMITTALS: FULL SET OF REVIEWED SUBMITTALS ORGANIZED BY TRADE.
1.13.1.4. SUBMITTALS: FULL SET OF REVIEWED SUBMITTALS ORGANIZED BY TRADE.
1.13.1.5. OPERATING & MAINTENANCE INFORMATION OF ALL STOR AND MAINTENANCE INFORMATION FOR EQUIPMENT AND MATERIALS USED IN THIS PROJECT ORGANIZED BY TRADE. OPERATION NOT CONCLUDE MANUFACTUREYS DESCRIPTIVE LITERATURE, OPERATING INSTRUCTIONS, INSTALLATION INSTRUCTIONS, MAINTENANCE INFORMATION TO INCLUDE MANUFACTUREYS DESCRIPTIVE LITERATURE, OPERATING INSTRUCTIONS, INSTALLATION INSTRUCTIONS, MAINTENANCE INFORMATION TO INCLUDE MANUFACTUREYS DESCRIPTIVE LITERATURE, MAINTENANCE PROSECUTIVE LITERATURE, MAINTENANCE PROSECUTIVE LITERATURE, MAINTENANCE AND PARTS LISTING. SUBMIT TO THE CONSULTANT TWO COPIES OF DESCRIPTIVE LITERATURE, MAINTENANCE PROSECUTIONS, INSTRUCTIONS, INSTRUCTIONS, INSTRUCTIONS, INSTRUCTIONS, AND PARTS LISTING. SUBMIT TO THE CONSULTANT TWO COPIES OF DESCRIPTIVE LITERATURE, MAINTENANCE PROSECUTIVE LITERATURE, MAINTENANCE AND PRATS LISTING. SUBMIT TO THE CONSULTANT TWO COPIES OF DESCRIPTIVE LITERATURE, MAINTENANCE PROSECUTIVE, INCLUDE ALL MANUFACT. INCLUDE ALL MANUFACTUREYS GUARANTEES AND WARRANTES.
1.13.1.6. REPORTS: AS SPECIFIED.
1.13.1.7. RAINING DOCUMENTATION
1.13.1.8. RED LINE AS-BUILT DRAWINGS MUST BE SCANNED AND INCLUDED ON THE USB FLASH DRIVE.

3.1.8. RED LINE AS-BUILT DRAWINGS. DRAWINGS MUST BE SCANNED AND INCLUDED ON THE USB FLASH DRIVE.
1.13.2. SUBSTANTIAL PERFORMANCE OF THE WORK WILL NOT BE AWARDED UNTIL ELECTRONIC O&M MANUALS ARE SUBMITTED TO CONSULTANT FOR REVIEW

10.1. Strending control more available on the available on th

UNDERGROUNG DUCTWORK SPECIFICATION

PAR	PART 1 - GENERAL	NERAL
1.1	RELAT	RELATED DOCUMENTS
A	Drawin	A. Drawings and general provisions of the Contract, including
S	pecificati	Specification Sections, apply to this Section.
1.2	SUMMARY	ARY
A	. Section	A. Section Includes:
	1.Under	1.Underground Ducts
1.3	ACTIO	ACTION SUBMITTALS
A	Provide	A. Provide Product Data: For each type of the following produc
	1.Under	1.Underground Ducts
	2.Seala	2.Sealants and Gaskets
Ш	. Shop D	B. Shop Drawings: For underground ducts. Include plans, elev
	1.Detail	1.Detail equipment assemblies and indicate dimensions, wei
	and lo	and location and size of each field connection.
	2.Burial	2.Burial and supports, including methods for duct burial and
1.4	CLOSE	CLOSEOUT SUBMITTALS
A	Installa	A. Installation and Maintenance Data: For underground ducts i
	1.Site c	1.Site conditions, excavation and preparation
	2.Instru	2. Instructions for joining ducts
	3.Instru	3. Instructions for proper backfilling and precautions.
	4.Leak	4.Leak testing procedure
1.5	QUALI	QUALITY ASSURANCE
A	. ASHRA	A. ASHRAE Compliance: Applicable requirements in ASHRAE 6
2	Construct	"Construction and System Start-Up."
PART 2	Т 2	PRODUCTS - UNDERGROUND DUCTWORK

PART 2 PRODUCTS - UNDERGROUND DU A. ACCEPTABLE MANUFACTURERS: 1. The BlueDuct® by AQC Industries, 2.

UNDERGROUND DUCT SYSTEM
 UNDERGROUND DUCT SYSTEM
 Unomplete duct system (including inlet plenums, round duct, run-outs, diffuser boots, etc.) must be from one manufacturer and be of the same material, construction method throughout. Field made duct components are NOT acceptable.
 Provide elbows, ducts, diffuser boxes, plenums, clamp & gaskets, boots, saddle registers and caulk as required by drawings for underground installation.
 Unless otherwine noted, all duct and fittings shall be constructed per SWACNA's Duct Construction Standards to withstand +10 w.g. Unless otherwine noted, all duct and fittings shall be constructed per SWACNA's Duct Construction Standards to withstand +10 w.g. (2004)
 Unless otherwine noted, all duct and fittings shall be constructed per SWACNA's Duct Construction Standards to withstand +10 w.g. (2004)
 Ductwork shall be cosed cell pastic material hase integral R-10 equivalent thermal insulation, per NSF's P374 Protocol and verified by a NSF Thermal Testing Report.
 All joints shall be sealed via gasket or bolts and sealant.
 Clamps and gaskets shall comprise of w^u thitk butyl rubber sealant tape that is water and UV resistant and shall not rast or stain. Gaskets shall comprise of w^u thitk butyl rubber sealaritape that is water and UV resistant. Flanges shall be installed by a trained installed by a trained intervers.
 Gamps and duct work shall be acceptible or gash canding sealant tape that is water and UV resistant. Flanges shall be installed by a trained intervers.
 Gamps and ductwork shall be naintain pressure with not lease of galvanized steel ductwork shall not stainess steel plates and stain. Gastets shall comply with ASTM-E84 for flame and smoke scale.
 Gamps and duct barches fall to maintain pressure with not lease steel lock or the complexent stained steel ductwork shall be installed by a trained installer.
 Duct syst

EXECUTION A. Installation PART 3

Follow The underground ductwork Installation Instructions provided by the manufacturer. It is strongly recommended to complete installation training provided by manufacturer prior to installation
 Excavate a trench evenly as per manufacturer Installation Instructions. No bedding is required except for cases of bedrock or clay where sand or light aggregate may be used.
 Backfill material must consist of pea gravel or dry silica sand.
 The sealant and gasket material provided by manufacturer must be used as directed. The use of non-approved sealant or gasket will void warranty.

B. Testing

The complete underground duct system shall be tested for leakage after final assembly.
 Follow SMACNA air duct leakage test standard.
 Allow 24 hours for The BlueDuct sealant to cure after final assembly before testing the duct system. Additional curing time may be required in high ambient conditions.
 C. Cleaning
 1. Remove dust and debris from ductwork prior to occupancy

- "WORK" IS HEREBY DEFINED AS, "THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS WHETHER COMPLETED OR PARTIALLY COMPLETED AND INCLUDES ALL LABOUR, MATERIALS, EQUIPMENT, AND SERVICES PROVIDED OR TO BE PROVIDED BY THE CONTRACTOR TO FULFILL THE CONTRACTOR'S OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT.
 "INSTAL" IS HEREBY DEFINED AS, "TO SUPPLY AND DELIVER, UNLOAD, AND INSPECT FOR DAMAGE."
 "INSTAL" IS HEREBY DEFINED AS, "TO UNPACK, ASSEMBLE, ERECT, APPLY, PLACE, FINISH, CURE, PROJECT.
 "INSTAL" IS HEREBY DEFINED AS, "TO UNPACK, ASSEMBLE, ERECT, APPLY, PLACE, FINISH, CURE, PROJECT.
 "INSTAL" IS HEREBY DEFINED AS, "TO PURNISH AND INSPECT FOR DAMAGE."
 "PROVIDE" IS HEREBY DEFINED AS, "TO PURNISH AND INSTAL."
 "PROVIDE" IS HEREBY DEFINED AS, "TO PURNISH AND INSTAL."
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 "ROVIDE" IS HEREBY DEFINED AS, "TO PURNISH AND INSTEL."
 "ROVIDE" IS HEREBY DEFINED AS, "TO NUMCK, ASSEMBLE, RECT, APPLY, PLACE, FINISH, CURE, RADIECT, CLEAN, CONNECT, AND PLACE INTO OPERATION INTO THE WORK."
 "I.2.6." CONCEALED" IS HEREBY DEFINED AS, "TO PURNISH AND INSTELL."
 "ROVIDE" IS HEREBY DEFINED AS, "HIDDEN ROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, HUNG CEILLINGS, EMBEDDED IN CONSTRUCTION, IN CAAWL SPACES, OR BURLED."
 "EVONED" IS HEREBY DEFINED AS, "MUTHORITY AND MORE CONCEALED AS DEFINED BY THE SPECIFICATIONS."
 "ENDOSED" IS HEREBY DEFINED AS, "ANT INSTALLED UNDER ROUND NOR CONCEALED S DEFINED BY THE SPECIFICATIONS."
 "ENDOSED" IS HEREBY DEFINED AS, "ANT INSTALLS, EQUIPMENT SCHEDULES, DIAGRAMS, SKETCHES, FICL, ISSUED FOR THE CONSTRUCTION."
 "HAWINGS" IS 1.1.1. THIS CONTRACTOR SHALL VISIT THE SITE AND REVIEW THE DRAWINGS PRIOR TO PRICING TO DETERMINE THE EXTENT OF THE WORK TO BE CARRIED OUT UNDER THIS CONTRACT AND TO ASCERTAIN CONDITIONS WHICH COULD AFFECT THE WORK. CONDITIONS WHICH MAY AFFECT THE WORK ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER/AND ARCHITECT. COMMENCEMENT OF WORK CONCERNED IMPLIES ACCEPTANCE OF ALL RELEVANT CONDITIONS AND NO AFTER CLAIMS BASED ON THESE CONDITIONS WILL BE ENTERTAINED.
 1.2. DEFINITIONS
 1.2.1. "WORK" IS HEREBY DEFINED AS. "THE FORMED AND THE FORMED AND THE FORMED AS." THE FORMED AS. "THE FORMED AS." THE FORMED AS."
- 1.2.2. 1.2.3.
- 1.2.4. 1.2.5.
- - 1.2.6.
- 1.2.7. 1.2.8.
- 1.2.9.
- 1.3. P 1.3.1.
- APPLICABE. CONDUCT REQUIRED TESTING ON PIPING SYSTEMS IN ACCORDANCE WITH APPLICABLE CODES AND ARRANGE FOR INSPECTIONS BY THE LOCAL AUTHORITY HAVING JURISDICTION WHERE APPLICABLE CONDER AND CONSULTANT.
 1.4. GUARANTEES
 1.4. GUARANTEE OR INSPECTION WHERE APPLICABLE. PROVIDE COPIES OF ALL PERMITS TO OWNER AND CONSULTANT.
 1.4. GUARANTEE NETSON
 1.4. GUARANTEE PERIOD UNLESS THE CONTRACTOR WAS DESCRIBED HEREIN. THE WARRANTY PERIOD SHALL START ONE DAY AFTER SUBSTANTIAL COMPLETION. DEFECTS WITHIN THIS PERIOD SHALL BE CORRECTED AT NO COST TO THE OWNER. SERVICES SHALL NOT EXTEND BEYOND THE GUARANTEE PERIOD UNLESS THE CONTRACTOR WAS NEGLIGENT IN ATTENDING TO SERVICE DURING THE GUARANTEE PERIOD.
 1.4.2. THE CONTRACTOR SHALL WARRANT THAT THE WORK IS FREE FROM ANY DEFECT IN WORKMANSHIP AND MATERILAS AND COMPLIES IN ALL REPACTS WITH THE PROVISIONS OF THE CONTRACTOR MAS REGULED THE DAY AND THE GUARANTEE PERIOD.
 1.4.3. THE CONTRACTOR SHALL BE CONTRACTOR MAS RECORES TO CORRECT PROMPTLY, AT HIS OWN EXPENSE, DEFECTS OR DEFICIENCIES IN THE WORK WHICH APPEAR DURING THE WARRANTY PERIOD. THE CONTRACTOR SHALL ALSO PAY AT HIS OWN EXPENSE FOR ANY DAWAGE TO OTHER WORK OR PROPERITY OR TO FRENOM AND THE WARNOT DEFECTS OR DEFICIENCIES IN THE WORK WHICH APPEAR DURING THE WARRANTY PERIOD. THE CARRYNG GOD OF ALL DEFECTS SHALL ALL APPEAR DURING THE WARRANTY PERIOD. THE CARRYNG OUT OF THE REPLACEMENT WORK AND THE PARTO OF SULTING THE WORK ON ITHE RARYNG OF OF THE REPLACEMENT WORK ON THE PARTO OF SULTING FOR MANY DEFECTS OR DEFICIENCIES IN THE WORK WHICH APPEAR DURING THE WARRANTY PERIOD. THE CARRYNG OUT OF THE REPLACEMENT OF THE PARTO OF THE PARTO OF THE REPLACEMENT OF THE PARTO OF THE PARTO OF THE REPLACE DURING TO OTHER WORK ON REPORESTOR ALL LAWS, STATUTES, BY-LAWS, ORDINANCES, AND REGULATIONS WHETHER FEDERAL, PROVINCIAL, OR MUNICIPAL WHICH ARE APPLICABLE TO THE WORK SHALL BE COMPLIED WITH. OBTAIN ALL PERMITS, AND PAY ALL FEES TO ENSURE THAT THE WORK IS CARRIED OUT IN COMPLIANCE WITH APPLICABLE CODES. SUBMIT PLANS AND SPECIFICATIONS, AS REQUIRED, TO LOCAL AND PROVINCIAL INSPECTION AUTHORITIES AND OBTAIN APPLICABLE CODES. SUBMIT PLANS AND SPECIFICATIONS, AS REQUIRED, TO LOCAL AND PROVINCIAL INSPECTION AUTHORITY HAVING JURISDICTION WHERE APPLICABLE. CONDUCT REQUIRED TESTING WORK. GIVE ALL NOTICES AND ARRANGE FOR INSPECTIONS BY THE LOCAL AUTHORITY HAVING JURISDICTION WHERE APPLICABLE. CONDUCT REQUIRED TESTING ON PIPING SYSTEMS IN ACCORDANCE WITH APPLICABLE CODES AND ARRANGE FOR INSPECTIONS BY THE LOCAL AUTHORITY HAVING JURISDICTION WHERE LOCAL AUTHORITY HAVING JURISDICTION WHERE APPLICABLE. CONDUCT REQUIRED TESTING ON PIPING SYSTEMS IN ACCORDANCE WITH APPLICABLE CODES AND ARRANGE FOR INSPECTIONS BY THE LOCAL AUTHORITY HAVING JURISDICTION WHERE LOCAL AUTHORITY HAVING JURISDICTION WHERE APPLICABLE. PROVIDE COPIES OF ALL PRINTS TO OWNER AND CONSULTANT.

- PERFORM WORK IN ACCORDANCE WITH OWNER REQUIREMENTS. RECOGNIZED STANDARDS: DESIGN, MANUFACTURE, TESTING AND METHOD OF INSTALLATION OF ALL APPARATUS AND MATERIALS FURNISHED UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS SHALL CONFORM TO THE LATEST PUBLICATIONS OR STANDARD RULES OF UNDERWRITERS LABORATORIES, INC. (UL), AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE), AND THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) AS APPLICABLE. THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE WHERE THE CONTRACT DOCUMENTS EXCEED CODE, UTILITY, OR RECOGNIZED STANDARDS 1.5.4.
 - 1.6. CONTRACT DRAWINGS 1.6.1. THE CONTRACTOR IS **REQUIREMENTS.**
- THE CONTRACTOR IS RESPONSIBLE TO OBTAIN, FULLY UNDERSTAND, AND COORDINATE THE WORK WITH THE COMPLETE SET OF CONTRACT DOCUMENTS, AND ANY EXISTING CONDITIONS. ANY REQUIRED CORRECTIONS, INCLUDING ALL ASSOCIATED COSTS, ARISING FROM ISSUES CAUSE BY THE CONTRACTOR'S FAILURE TO UNDERSTAND AND/OR COORDINATE THE WORK WITH THE COMPLETE SET OF CONTRACT DOCUMENTS ARE THE CONTRACTOR'S SOLE RESPONSIBILITY.
 - 1.6.2.
- 1.6.3.
- U.G. WORK UNDER THESE SECTIONS IS DIAGRAMMATIC UNLESS INDICATED OTHERWISE AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND VORK UNDER THESE SECTIONS IS DIAGRAMMATIC UNLESS INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT AND ACCESSORIES. FOLLOW THESE DRAWINGS IN LAYING OUT THE WORK AND VERIFY SPACES OR THE INSTALLATION OF THESE MATERIALS AND EQUIPMENT. WHEREVER A QUESTION EXISTS AS TO THE EXACT INTENDED LOCATION OF EQUIPMENT AND SERVICES, OBTION INSTRUCTIONS FROM THE CONSULTANT PROCEEDING WITH THE WORK.
 I.G.3 CORDINATE PHYSICAL LOCATION OF ALL EQUIPMENT AND SERVICES WITH OTHER TRADES AND ALLOW FOR ADDITIONAL SERVICES, FITTINGS, SUPPORTS FTC. IN ORDER TO AVOID INTERFERENCES AND FACILITATE WORK. NO EXTRA PAYMENTS ARISING FROM THE FAILURE TO MAKE THIS CORDINATION WILL BE CONSIDERED.
 I.G.4. NOTIFY THE CONSULTANT FOR RESOLUTION IF A DISCREPANCY IS DISCOVERED WITHIN THE CONTRACTOR'S RESPONSIBILITY AND SUBJECT TO THE CONSULTANT FOR COMING THE CONTRACTOR'S RESPONSIBILITY AND SUBJECT TO THE CONSULTANT FOR RESOLUTION BECOMING THE CONTRACTOR'S RESPONSIBILITY AND SUBJECT TO THE CONSULTANT FOR RESOLUTION IF A DISCREPANCY IS DISCREPANCY RESOLUTION OF WHICH THEY WERE NOT THE INSTALLATION OF INTEL APPROVAL OF THE INSTALLATION SITUATION SITUATION OF WHICH THEY WERE NOT THE INSTALLATION OF DISCREPANCIES SHALL RESULT IN THE RESIGNANT THE CONTRACTOR'S RESPONSIBILITY AND SUBJECT TO THE CONSULTANT SERVICES AND FORONANG THE CONTRACTOR'S RESPONSIBILITY AND SUBJECT TO THE CONSULTANT OF DISCREPANCY IS DISCREPANCY RESOLUTION OF WHICH THEY WERE NOT NOTIFIED, THE CONSULTANT OF DISCREPANCIES SHALL RESULT IN THE RESIGNANT INCLUDING ALL ASSOCIATED COSTS, UNTIL APPROVAL OF THE INSTALLATION OF NOTIFIED, THE CONSULTANT REJECT A DISCREPANCY RESOLUTION OF WHICH THEY WERE NOT NOTIFIED, THE CONSULTANT REJECT A DISCREPANCY RESOLUTION OF WICH THEY WERE NOT NOTIFIED, THE CONSULTANT REJECT A DISCREPANCY RESOLUTION OF WICH THE INSTALLATION, INCLUDING ALL ASSOCIATED COSTS, UNTIL APPROVAL OF THE INSTALLATION IS GONDITIONS 1.6.4.
 - 1.7. E 1.7.1. 1.7.2.

- THE CONTRACTORS SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE CONTRACT DOCUMENTS, AND BECOME FAMILIAR WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK. BY SIGNING THE CONTRACT, THE CONTRACTOR ACKNOWLEDGES THE SITE VISIT HAS BEEN COMPLETED AND THE EXISTING CONDITIONS ARE ACCEPTED.
 THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF MAJOR DISCREPANCIES IN WRITING SO THE APPROPRIATE MODIFICATIONS TO THE DESIGN CAN BE MADE WITHOUT DELAY TO THE PROJECT. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY OF ADJUSTING FOR DISCREPANCIES OF WHICH THE CONSULTANT IS NOT INFORMED.
- THE CONSULTANT IS NOT INFORMED.
 MATERIALS AND WORKMANSHIP
 ALL EQUIPMENT AND MATERIALS REQUIRED FOR THE WORK SHALL BE UL LISTED AND CSA CERTIFIED AND INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. ALL NEW SERVICES AND EQUIPMENT SHALL BE INSTALLED PARALLEL TO THE STRUCTURAL LINES OF THE BUILDING. FURNISH NECESSARY CERTIFICATES AS EVIDENCE THAT ALL THE EQUIPMENT AND MATERIAL HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH FEDERAL, PROVINCIAL, AND MUNICIPAL REGULATIONS.
 ALL MATERIALS AND EQUIPMENT SHALL BE FROM SUPPLIERS IN THE IMMEDIATE AREA OF THE JOBSITE WITH ACCESS TO SPARE PARTS AND SERVICE WHERE POSSIBLE.
 ALL TRADES USED ON THIS PROJECT SHALL BE CERTIFIED FOR THEIR TRADE WITH A MINIMUM OF 5 YEARS' VERIFIABLE EXPERIENCE AND BE UNDER
- ALL TRADES USED ON THIS PROJECT SHALL BE CERTIFIED FOR THEIR TRADE WITH A MINIMUM OF 5 YEARS' VERIFIABLE EXPERIENCE AND BE UNDER THE DAILY SUPERVISION OF THEIR SUPERVISOR FOR THEIR COMPANY.
 INSPECTIONS AND CLEANUP
 I.9.1. INSPECTIONS AND CLEANUP
 1.9.1. ALL REFUSE AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE AT FREQUENT INTERVALS TO THE SATISFACTION OF THE OWNER. FOR FINAL JOB COMPLETION ALL EQUIPMENT SHALL BE CLEANED, ADJUSTED, AND TESTED TO ENSURE THAT THE SYSTEMS ARE COMPLETELY OPERATIONAL TO THE SATISFACTION OF THE CONSULTANT. DAMAGED MANUFACTURER'S FINISHES SHALL BE FINISHED TO MATCH THE ORIGINAL CONDITION. MAINTAIN THE WORK SITE IN TIDY CONDITIONS, FREE FROM ACCUMULATION OF WASTE PRODUCTS AND DEBRIS.
 1.9.2. REMOVE WASTE MATERIAL AND DEBRIS FROM THE SITE AT END OF EACH WORKING DAY.
 1.9.3. CLEAN INTERIOR AREAS PRIOR TO STAT OF FINISH WASTE ON THE ON THE ORIGINAL CONDITION. MAINTAIN 1.9.4. MINIMIZE AND CONTAIN DUST OR OTHER CONTAMINATES DURING CONSTRUCTION.

- alternate and contract of the equipment of the equipment as specified. Alternates shall be submitted to consultant for review and acceptance prior end of bidding period.
 1.10.1. All quotations shall be prepared on the basis of the equipment as specified. Alternates shall be submitted to consultant for Review and acceptance prior end of bidding period.
 1.10.2. The consultant reserves the right to accept or reject any alternate submitted for approval. No alternates will be permitted after award of contract.
 1.10.3. The manufacturers listed are done so to set minimum standards for quality, design, and functionality. The products of other manufacturers may be submitted, for consideration by the consultant during the bidding period. The products of other manufacturers shall meet or exceed all requirements of the contract documents. The contractor accepts all responsibility for costs and coordination issues anising out of the substitution of materials or equipment, and the coordination of such substitutions with all other contractors and subcontractors. The contractor shall be responsible for ensuring that substituted equipment will fit properly into the spaces provided while maintaining all core-related clearances.