

ADDENDUM No. 5

ADD 005

Project: Nunavut Water Board New Office Building

Location: Gjoa Haven, NU

Project no: RFP GH 2018-001 TAG:17-017

Date: March 6th, 2018

Note well: Addendum No. 5 is comprised of: **General:** comprised of 01 addendum items.

Specification General: comprised of 07 addendum items. **Architectural Specification:** comprised of 02 addendum items.

Electrical: comprised of 12 addendum items and 02 attachments (see Addendum E01 and E02 attached).

Mechanical: comprised of 02 addendum items.

The Addendum contains a total of (11) - 8 $\frac{1}{2}$ " x 11" sheets, (4) - 24" x 36" sheets, and 24 items.

General

1. Information

Based on inquiry by some Contractors and after reviewing the Nunavut Water Board's current and projected housing requirements, the Nunavut Water Board is able to make two (2) housing units available for rent to the successful Contractor for accommodations for the project personnel during construction (aligning with Project Start and Completion dates). If Contractors wish to make alternate arrangements for accommodations for project personnel, they are NOT required to rent these units from the Nunavut Water Board. Contractors choosing to rent the units will be able to rent one or both units on the same rental terms as the Nunavut Water Board provides to employees, as follows:

- Details: 1,162 square foot, two-bedroom housing units. Unfurnished, appliances included.
- Rental Price: \$5000 per month per housing unit, including heating. Renter is responsible to pay for water, sewage and electricity.
- Renters must sign a lease agreement with the Nunavut Water Board. Any damages to the properties will be the responsibility of the Renter.



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 Contractor must advise the Nunavut Water Board of their intention to rent one or both units and enter into a signed lease agreement within 14 days of the award of contract, after which time the units may no longer be available."

Specifications - General

2.	00 21 13, Part 1.12.6.1	Clarification	"completion date in the agreement shall be this completion time added to commencement date." Completion date in the preceding sentence is referring to the Substantial Completion Date.
3.	00 21 13, Part 1.12.1.2	Addition	".3 If the bidder is unable to obtain reference letters from the Government of Nunavut or the Government of the Northwest Territories, and they have no private projects to select from, an alternative to 1.12.1.2.1 and .2 is as follows:
			Bidder may submit two (2) reference letters for projects completed outside of NU/NWT, along with a written explanation of why the Bidder is unable to obtain letters from NU/NWT. If bidders have no projects outside of NWT/NU, they must also provide a written explanation. If the above explanations are satisfactory to the Nunavut Water Board, this will not count as a fail on the prequalification requirements."
4.	Addenda 4, Item #3	Clarification	Item 1.12.4 Performance Assurance is a requirement of the accepted bidder, not a bid enclosure requirement.
5.	00 21 13, Part 1.12	Remove	".7 Fees for Changes in Work"
6.	00 21 13, Part 1.12.1.1	Clarification	"Note that the bids will not be rated as per the GN NNI policy." There is no minimum requirement for Inuit labour or participation from Inuit firms.



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7.	00 21 13, Part 1.9	Clarification	".1 Bidders must provide a certificate of good standing from Workers Safety and Compensation Commission (WSCC)" The certificate of good standing in the preceding sentence is to be submitted with the bid forms.
8.	01 21 00, Part 1.2.9	Addition	".3 Include allowance of \$25,000.00 for fabrication and installation of Boardroom Table (furniture #T1)."
Archi	tectural Specifications		
9.	07 21 13, Part 2.2.2.7.1	Clarification	Refer to Part 2.2.2.7.1 for acceptance of Dow Styrofoam CavityMate as board insulation for exterior walls.
10.	07 27 13, Part 2.1	Request for Alternates	No air and vapour barrier products will be accepted from manufacturers other than Soprema Canada.
Mech	anical Specifications		
11.	23 09 10, Part 3.3	Revise	".1 Refer to Detail 1 on drawing M600 Heating Schematic
			.2 Provide flow switches or amperage switches for each pump (P-3, P-4, P-5A, P-5B, P6) to provide on-off indication. Provide alarm indication if a pump is not running.
			.3 Boiler package is to come with an integral boiler control panel. This panel is to be used to set up the boilers to provide for dual boiler operation, equal run time rotation, boiler outdoor reset, mixed outdoor reset on the floor heating loop. And manage indirect domestic hot water

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operation. Primary pumps (P3 and P4) to be shutdown when associated boiler is not in operation.

.4 Outdoor sensor shall reset the heating supply set-point temperature. Initial set-points to be as follows:

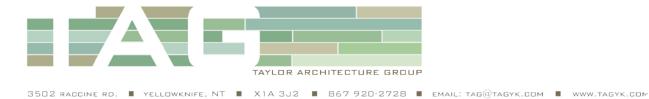
OAT 0 C -30 C HWST 65 C 82 C

.5 The in-floor heating loop temperature is also to be reset by outside air temperature to maintain a lower heating loop supply temperature as follows:

OAT 15 C -30 C Rad Loop HWST 20 C 40 C

- .6 IF Rad Loop HWST exceeds 40C the heat pump P-6 is to shut off and an alarm is to sound.
- .7 Heating pumps are complete with variable speed controls which are to be set up to minimize pump energy use."
- ".1 Refer to Detail 4 Drawing M600 Heat Recovery Ventilation Schematic.
- .2 Provide time clock for day-night control with manual bypass switch marked "Day-Auto-Off". The time clock shall have a 7-day time clock complete with a holiday mode button. Ventilation system to be in day mode from 7:30am to 6:00pm 5 days a week.
- .3 In auto mode both fans are to run and the reversing damper is to cycle to maintain supply air temperature.

12. 23 09 10, Part 3.6 Revise



.4 In day mode both fans are to run for 2 hours and then the system is to return to auto mode."

Electrical Addenda

Refer to the attached Electrical Addenda E01 and E02.

End





BID DOCUMENTS FOR NUNAVUT WATER BOARD OFFICE BUILDING

5 March 2018 FILE: 144902600-07-02

ISSUED BY:

Kristen Smith, P.Eng., Senior Associate STANTEC CONSULTING LTD. Tel: (709) 576-1458 ext. 5761242 Fax: N/A

FOX: N/A

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Addendum issued to active tenderers with documents on record ([7] pages including attachments)

- 1. Clarifications
 - 1.1. Refer to electrical drawings E200, E201, E202, and E500 for clarifications. Clarifications are clouded and marked with revision #6.
- 2. Specifications:
 - 2.1. Add specifications Section 28 32 00 Mechanical Alarm Detection System.
- 3. Description of Addendum Bidder Questions:
 - 3.1. Question from bidder re: Exit Signs:
 - 3.1.1. Question: Can we use self-powered Universal Exit Lights instead of bringing a DC Circuit into each exit fixture?
 - 3.1.2. Response: No; exit signs to be circuited to common AC circuit and powered via DC circuits to battery packs. Refer to drawing E200 & E500. This has now been clarified on the drawings and in panel schedule for Panel A.
 - 3.2. Question from bidder re: light switching:
 - 3.2.1. Question: Can you confirm the intent for switching in this building.
 - 3.2.1.1. Is the Intention of the 3-way switching as per drawing below? (see below)
 - 3.2.1.2. In Staff Room 122 there is (2) 3-way switches with (2) lighting circuits is the plan to install a contactor to switch these lighting circuits?
 - 3.2.1.3. In Corridor 126/121/108 there is (3) 3-way switches with (4) Lighting Circuits.
 - 3.2.1.3.1. Is one supposed to be a 4-way?
 - 3.2.1.3.2. Are we to install a contactor to switch these lighting circuits?
 - 3.2.1.3.3. In Lobby 102 there is (2) 3-way switches with (2) lighting circuits is the plan to install a contactor to switch these lighting circuits?



3.2.2 Response: Please refer to attached drawing sheet E200 which clarifies the switching intent. Revisions/clarifications have been identified with revision clouds.

4. Attachments:

- 4.1. Electrical drawing E200
- 4.2. Electrical drawing E201
- 4.3. Electrical drawing E202
- 4.4. Electrical drawing E500
- 4.5. Specifications Section 28 32 00 Mechanical Alarm Detection System

Distribution:

Taylor Architecture Group Each Bidder Stantec Project File

Part 1 General

1.1 SYSTEM

- .1 Alarm devices as described and supplied under Divisions 23 and 25.
- .2 Red light to indicate full sewage water tank.
- .3 Amber light to indicate full domestic water tank.
- .4 Amber light to indicate low domestic water tank.

Part 2 Products

2.1 INDICATOR LIGHTS

- .1 Supply and wire sewage water fill lights to float switches. Float switches to be supplied by Division 25.
- .2 Supply and wire domestic water fill light to float switch. Float switch to be supplied by Division 25.
- .3 Fixture housing to be marine-grade aluminum housing c/w silicone gaskets. Lamps to be light emitting diode (LED) type. LED array rated for 50,000 hours and draws approximately 16W. Globe to be coloured polycarbonate. Fixture to be wall-mount c/w guard. Standard of acceptance to be Phoenix Metallic LED VP Series:

Red: VA-W-LED-13-NW-PPR

Amber: VA-W-LED-13-NW-PPA

.4 Division 28 to provide any transformers or relays required for operational system.

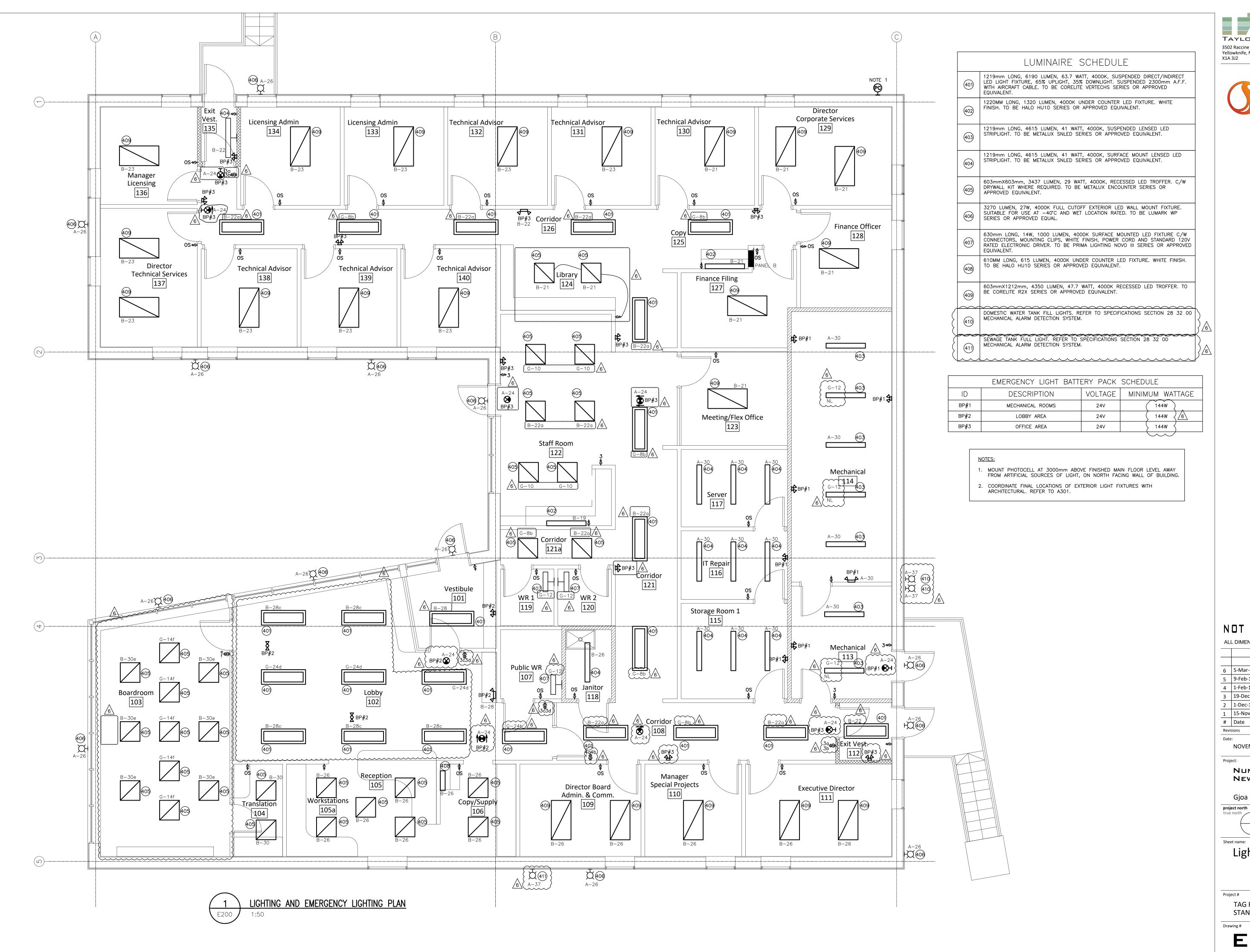
Part 3 Execution

3.1 INSTALLATION

- Division 28 to supply relay contact in mechanical control panel which is normally open and closes on alarm. Provide all wiring required to make system functional.
- .2 Domestic water fill amber light to light when water level is high and operator is required to stop pumping. Amber light to stay on for a period of time as specified in the mechanical drawing Light is to be mounted as shown on drawings.
- .3 Domestic water low amber light to light when water level is low and requires fill up.

 Amber light to stay on until the tank is filled up to above the minimum level. Light is to be mounted as shown on drawings.
- .4 Sewage tank full light is to light when the sewage level is high and the operator is required to pump it out. Red light is to remain on until such time as the level drops.
- .5 Provide Type A lamicoid labels below each appropriate light reading:
 - .1 "DOMESTIC WATER TANK FULL"
 - .2 "DOMESTIC WATER TANK LOW"
 - .3 "SEWAGE WATER TANK FULL"

END OF SECTION







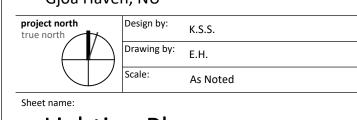
NOT FOR CONSTRUCTION

ALL DIMENSIONS TO BE SITE VERIFIED BY CONTRACTOR

,	5-Mar-18	Issued For Addendum				
5	9-Feb-18	Issued For Tender				
1	1-Feb-18	100% Construction Documents				
3	19-Dec-17	66% Construction Documents				
2	1-Dec-17	Client Review				
L	15-Nov-17	Design Development				
#	Date	Description				
Revi	sions					
Date	·:					

NUNAVUT WATER BOARD NEW OFFICE BUILDING

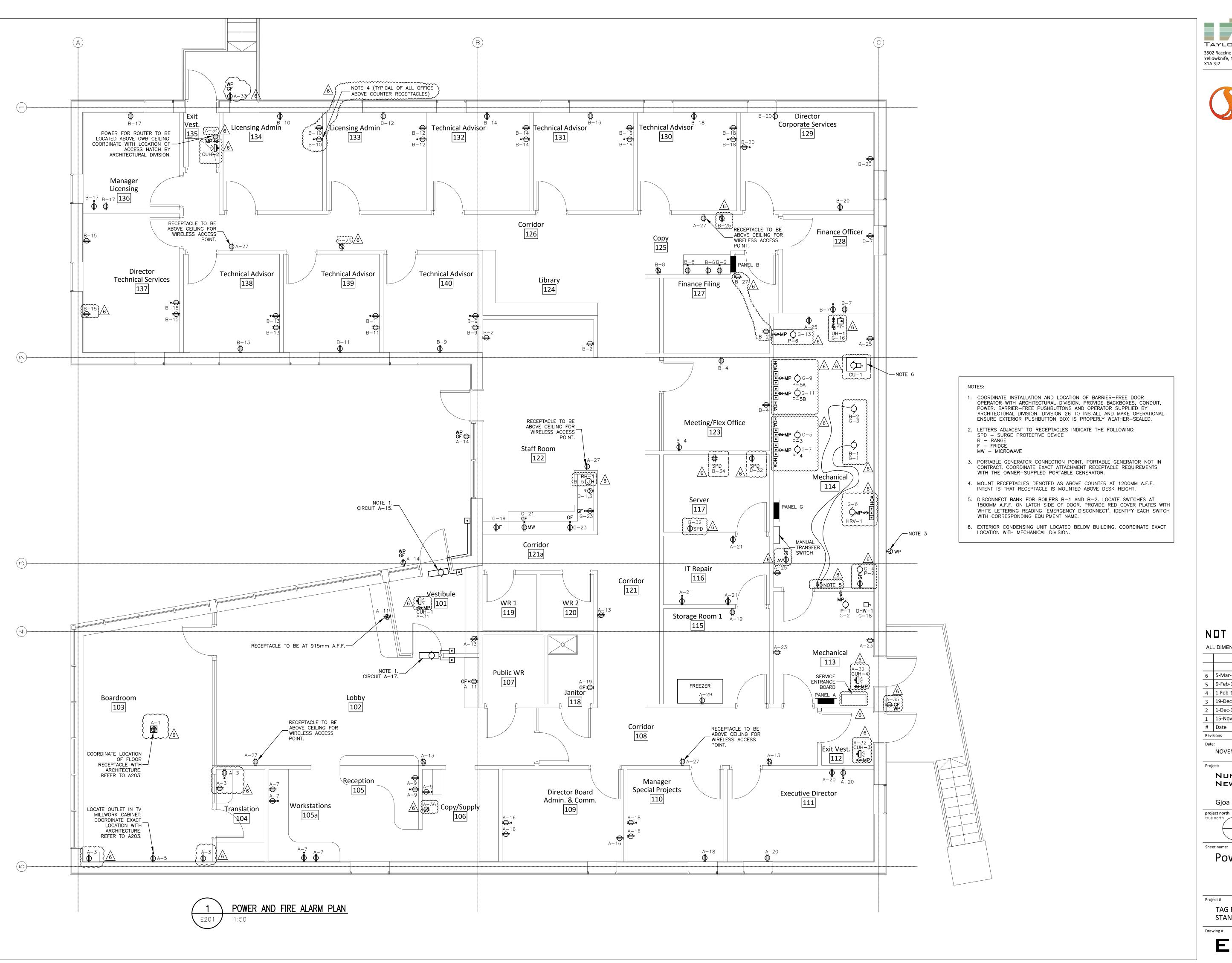
Gjoa Haven, NU



Lighting Plan

TAG PROJECT # 17-017 STANTEC PROJECT # 144902600









NOT FOR CONSTRUCTION

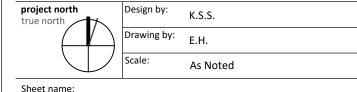
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	NOVEMBER	15, 2017

NOVEMBER 15, 2017

NUNAVUT WATER BOARD NEW OFFICE BUILDING

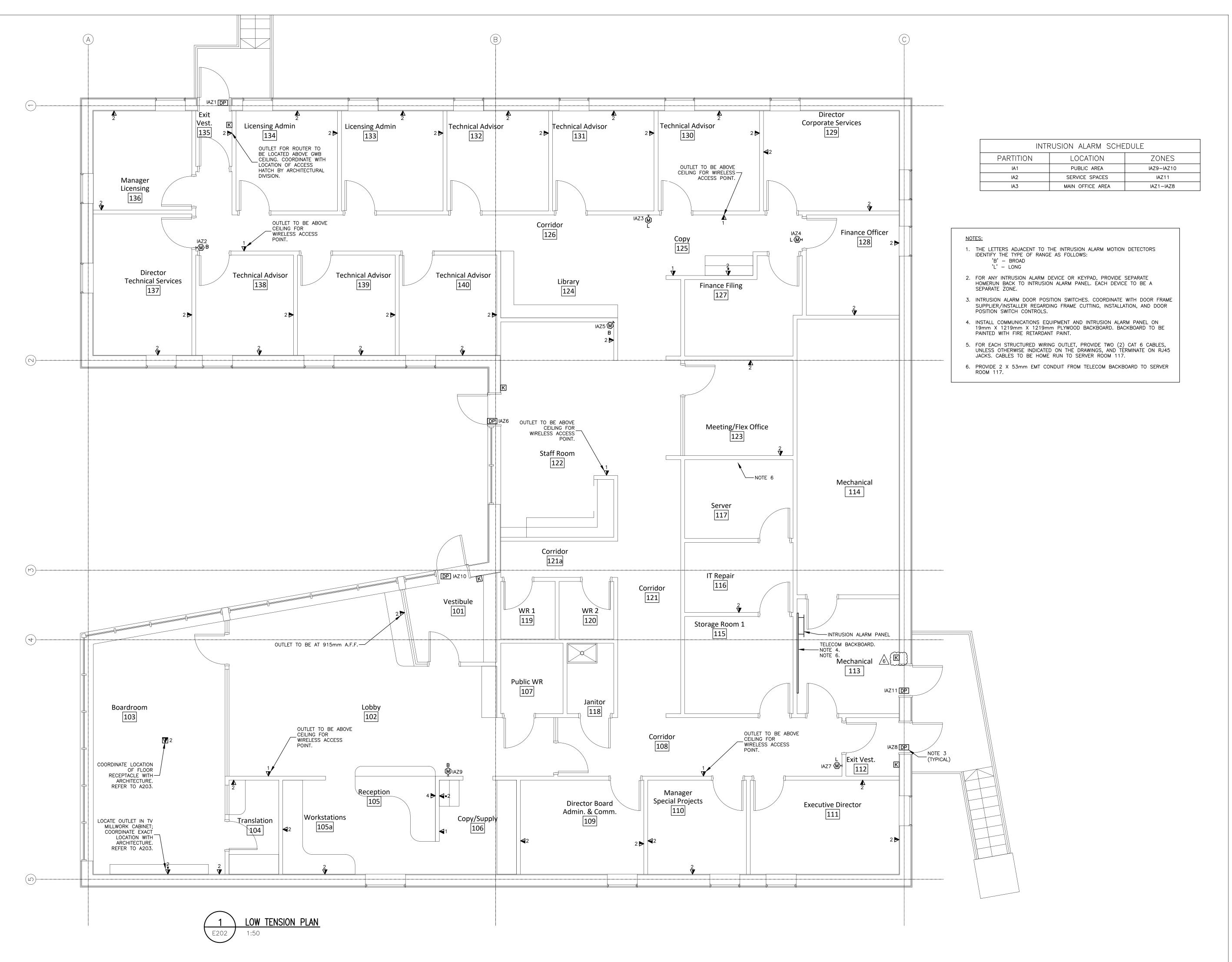
Gjoa Haven, NU



Power Plan

TAG PROJECT # 17-017 STANTEC PROJECT # 144902600

E201







NOT FOR CONSTRUCTION

ALL DIMENSIONS TO BE SITE VERIFIED BY CONTRACTOR

6	5-Mar-18	Issued For Addendum
5	9-Feb-18	Issued For Tender
ļ	1-Feb-18	100% Construction Documents
3	19-Dec-17	66% Construction Documents
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‡	Date	Description
Revi	sions	

NUNAVUT WATER BOARD NEW OFFICE BUILDING

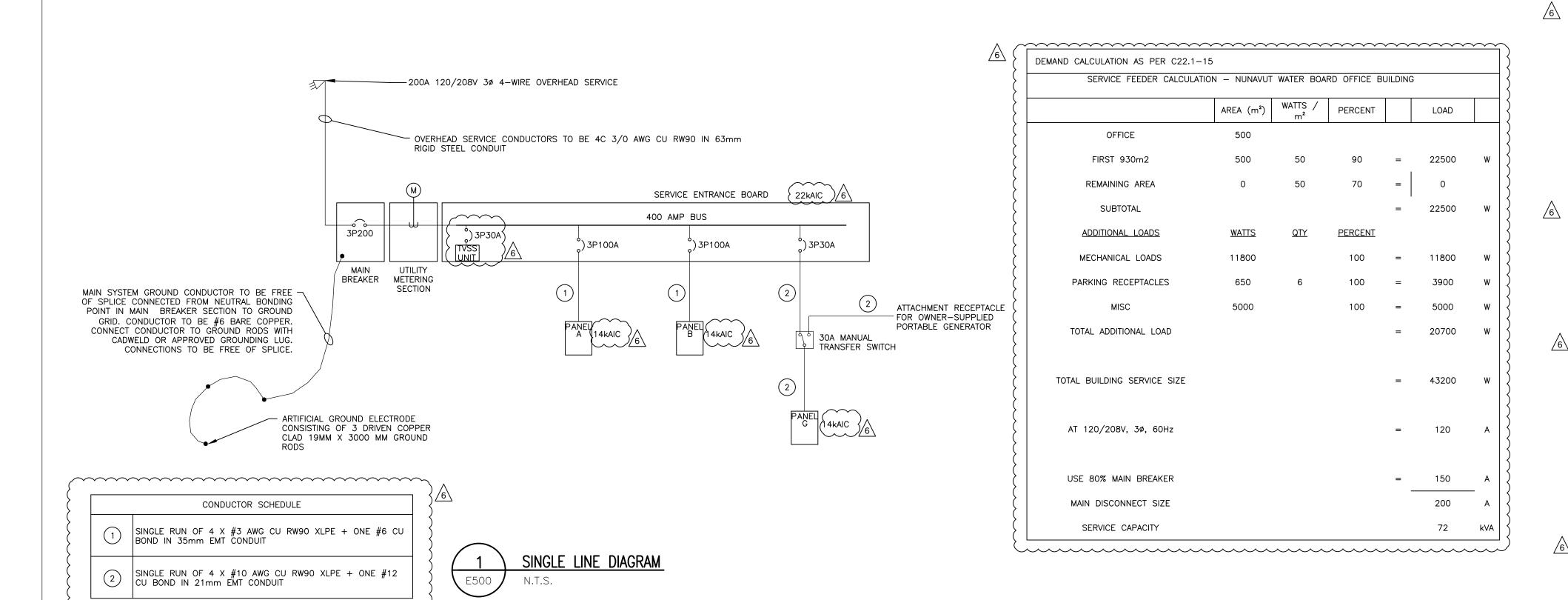
Gjoa Haven, NU

Drawing by: E.H.

Low Tension Plan

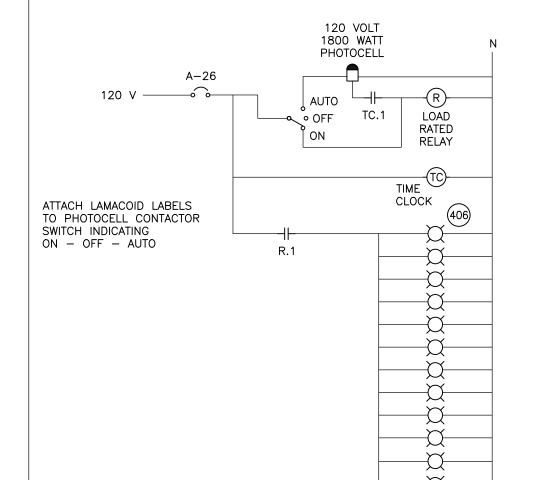
TAG PROJECT # 17-017 STANTEC PROJECT # 144902600

E202



MOTOR	DESCRIPTION	LOCATION	KW	HP	VOLTS	PHASE	FLA	FEEDER	BREAKER	SOURCE
B-1	BOILER	MECHANICAL 114	-	0.125	120	1	4.4	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	G-1
B-2	BOILER	MECHANICAL 114	-	0.125	120	1	4.4	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	G-3
P-1	DCW PUMP	MECHANICAL 113	-	0.5	120	1	9.8	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P20	G-2
P-2	GLYCOL FILL PUMP	MECHANICAL 114	_	0.33	120	1	7.2	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	A-22
P-3	HEATING PRIMARY PUMP	MECHANICAL 114	-	0.5	120	1	9.8	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P20	G-5
P-4	HEATING PRIMARY PUMP	MECHANICAL 114	-	0.5	120	1	9.8	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P20	G-7
P-5A	HEATING SECONDARY PUMP	MECHANICAL 114	_	0.75	120	1	13.8	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P30	G-9
P-5B	HEATING SECONDARY PUMP	MECHANICAL 114	-	0.75	120	1	13.8	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P30	G-11
P-6	RADIANT FLOOR PUMP	MECHANICAL 114	-	0.5	120	1	9.8	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P20	G-13
HRV-1	HEAT EXCHANGER	MECHANICAL 114	-	1	120	1	16	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P40	G-6
AC-1	SERVER AC UNIT	SERVER 117	0.7		000		4.7	3C #12 CU + #14 CU BOND IN 21MM CONDUIT		CU-1
CU-1	AC EXTERIOR UNIT	EXTERIOR	2.7	_	208	1	13	3C #10 TECK90 + #12 CU BOND	2P30	A-1,3
RH-1	RANGE HOOD	STAFF ROOM 122	-	FRAC	120	1	FRAC	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	B-5
CUH-1	CABINET UNIT HEATER	VESTIBULE 101	-	FRAC	120	1	FRAC	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	A-31
CUH-2	CABINET UNIT HEATER	VESTIBULE 135	-	FRAC	120	1	FRAC	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	A-34
CUH-3	CABINET UNIT HEATER	VESTIBULE 112	-	FRAC	120	1	FRAC	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	A-32
CUH-4	CABINET UNIT HEATER	MECHANICAL 113	-	FRAC	120	1	FRAC	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	A-32
UH-1	UNIT HEATER	MECHANICAL 114	-	FRAC	120	1	FRAC	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	G-16
AV	ARTIC VENT	MECHANICAL 114	_	FRAC	120	1	FRAC	2C #12 CU + #14 CU BOND IN 21MM CONDUIT	1P15	A38

MOTOR, CONTROL AND EQUIPMENT SCHEDULE



<u>NO I</u>	<u>ES:</u>	
	TIME CLOCK TO BE QUARTZ-BASED PROGRAMMABLE TYPE WITH CONTACTS PROGRAMMED TO REMAIN CLOSED BETWEEN 7:00 AM AND 11:00 PM.	

PHOTOCELL CONTROL SCHEMATIC

 MOTOR SCHEDULE IS FOR ESTIMATING PURPOSES ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE
MOTOR DISCONNECTS, BREAKERS, FEEDERS AND OVERLOADS ACCORDINGLY.
 CONFIRM MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL DIVISION. DIVISION 26 CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL LINE VOLTAGE PILOT DEVICES WITH DIVISION 23 AND PROVIDE

CONDUIT AND WIRING AS NECESSARY. 4. IN ADDITION TO CONTROL SHOWN, PROVIDE LOCAL DISCONNECT IF REQUIRED BY CEC.

CONTROL DEVICE LEGEND:

LRD - LOAD RATED DISCONNECT

MAG - MAGNETIC STARTER CMS - COMBINATION MAGNETIC STARTER WITH DISCONNECT

CONTROL

LRD

LRD

MMP

GFI RECEPTACLE

MMP/R/HOA

MMP/R/HOA

MMP/R/HOA

MMP/R/HOA

MMP

MMP/R/HOA

LRD C/W NEMA 3 ENĆLOSURE

BREAKER

MMP

MMP

MMP

MMP

GFI RECEPTACLE

MMP - MANUAL MOTOR PROTECTION /R — WITH LOAD RATED RELAY /HOA - WITH H-O-A SWITCH

/SS - SOFT START VFD - VARIABLE FREQUENCY DRIVE

/K – KEYED

_												
						PANEL: A						
			VOLTS:	120/	/208	LOCATION: MECHANICAL ROC	DM 113	BUSS:	225			
				,								
			PHASE:	3		FEEDER: REFER TO SINGLE	LINE DIAGRAM	MTG:	SUR	FACE		
			WIRE:	4								
ļ						1						
			_	WATTS	0	-		_	WATTS			
\downarrow	CIRC		A	\sim B	✓C	DESCRIPTION	DESCRIPTION	A	В	С	BRKR	CIRC
{	3	1P15 1P15	500	F00		FLOOR RCPT — BOARDRM	PARKING RCPT	650	CEO.		1P15 1P15	2 4
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4	$\overset{\circ}{\leadsto}$	1P15	600		300	WORKSTATIONS 105 RCPT	PARKING RCPT	650		630	1P15	8
ŀ	9	1P15	800	600		RECEPTION RCPT		650	650		1P15	10
ŀ	 11	1P15		800	300	LOBBY RECP	PARKING RCPT		030	650	1P15	_12
ŀ	13	1P20	450		300	HOUSEKEEPING RCPT (EXTERIOR RCPT*	1000	<u> </u>		1P15	14
ŀ	15	1P15	750	100		DOOR OPERATOR	OFFICE 109 RCPT		450	~~~	1P15	16
ŀ	17	1P15		100	100	DOOR OPERATOR	OFFICE 110 RCPT		+30	450	1P15	18
ŀ	19	1P15	300		100	JANITOR/STORAGE RCPT	OFFICE 111 RCPT	450		+30	1P15	20
ŀ	21	1P15	000	450		<u>'</u>	P-2		333	\sim	1P15	22
ŀ	23	1P15		,00	300	+	EXIT LIGHTS**		- 555	300	1P15	24
t	25	1P15	450			MECH 114 RCPT	EXTERIOR LGTS			~~~	1P20	26
f	27	1P15		250		WAPs (SPARE			\sim	1P15	28
f	29	1P15			250	STORAGE FREEZER	MECH RM LGTS	~~~		645	1P15	30
t	31	1P15	50				CUH-3 & CUH-4	100	~~~	~~~	1P15	32
ł	33	1P15		500	~~	EXTERIOR RCPT*	WIRELESS ROUTER		250		1P15	34
$\}$	35	1P15			500	EXTERIOR RCPT*	PRINTER RCPT			500	1P20	36
1	37	1P15	100			TANK FILL LIGHTS	AV	100			1P15	38
7	39		$\overline{}$	$\overline{}$		SPACE	SPACE SPACE		7			40~
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Ī	TO	TAL	2450	2400	1950			3280	2333	3195	TO	TAL
ł	PHAS	E A TO)TAI =	5730		1						
ŀ		E B TO		4733								
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ł		EL TOT		15608		@120/208 VOLTS 3 PHASE	43.3	AMPS				
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		VOLTS:	120/	′208	LOCATION: FINANCE FILING	\$ 127 \	BUSS:	225	$\langle \rangle$	<u>(</u>	
		PHASE:	3		FEEDER: REFER TO SINGL	F LINE DIACRAM	MTG:	RECE	SSED	<u>/6\</u>	
		WIRE:	4		TELDEN. NEI EN 10 SINGE	E LINE DIAGNAM	WITG.	NLCL	JJLD		
			WATTS					WATTS			
CIRC	BRKR	Α	В	С	DESCRIPTION	DESCRIPTION	Α	В	С	BRKR	CIR
1		3000				STAFF ROOM RCPT	300			1P15	2
3.	2P50		3000		RANGE	MEETING ROOM RCPT		450		1P15	4
5	1P15	× × ×	* * *	50	RH-1	COPY ROOM REPT			450	1215	\B
7	1P15	450	$\overline{}$		OFFICE 128 RCPT	PRINTER RCPT	300	· · ·	, i	1P20	8
9	1P15		450		OFFICE 140 RCPT	OFFICE 134 ROPT		450_		1P15	10
11	1P15			450	OFFICE 139 RCPT	OFFICE 133 RCPT			450	1P15	12
13	1P15	450			OFFICE 138 RCPT	OFFICE 132 RCPT	450			1P15	14
15	1P15		450		OFFICE 137 RCPT	OFFICE 131 RCPT		450		1P15	16
17	1P15			450	OFFICE 136 RCPT	OFFICE 130 RCPT			450	1P15	18
19	1P15	200			STAFF ROOM LGTS	OFFICE 129 RCPT	600			1P15	20
21	1P15		400		FINANCE/COPY/LIBRARY LGTS	CORRIDOR/STAFF RM LGTS		785		1P15	22
23	1P15			500	OFFICE LIGHTS	CUH-2			50	1P15	24
25	1P20	500	•	v	HOUSEKEEPING RCPT	OFFICES/COPY/RECPT LGTS	445			1P15	26
27	1P15		250		FINANCE FILING 127	LOBBY/VEST. LGTS & BP#2	~~~	530		1P15	28
29	1P15			-	SPARE	BOARDRM/TRANSLATION			235	1P15	30
3,1	1尺15			^	SPARE	SERVER RM RCPT	500			1P15	32
33			<u> </u>			SERVER RM QUAD RCPT		500		1P15	34
35				_							36
37		_					_				38
39			_					_			40
41				_					_		42
TO	TAL	4600	4550	1450			2595	3165	1635	TO	TAL
PHAS	E A TO	TAL =	7195								
PHAS	E B TC	TAL =	7715								
PHAS	E C TC	TAL =	3085								
	EL TOT	AL =	17995		@120/208 VOLTS 3 PHA	SE 49.9	AMPS				
EMAR	KS										

					PANEL: G							
		VOLTS:	120/	/208	LOCATION: MECHANICAL ROOM 114			225				
		PHASE: WIRE:	3 4		FEEDER: REFER TO SINGLE	LINE DIAGRAM	MTG:	SURI	FACE			
	I	1	WATTS		I	1	1	WATTS				+
CIRC	DDVD	A	В	С	DESCRIPTION	DESCRIPTION	A	B	С	BRKR	CIDO	
1	BRKR 1P15	100			DESCRIPTION B-1	DESCRIPTION P-1	375_		<u> </u>	1P20	CIRC 2	+
3	1P15	100	100		B-2	SPACE SPACE	ŤŤ	<u> </u>	\longrightarrow		4	$\frac{1}{2}$
5	1P20			375	P-3	SPACE SPACE	+		 	 _	6	∜⁄
7	1P20	375			P-4	CORRIDOR LGTS	350		~~	1P15	8	∜_
9	1P30		575		P-5A	STAFF RM LGTS	1	120		1P15	10	١,
11	1P30			575	P-5B	WASHRM/MECH RM LGTS			165	1P15	12	オ∠
13	1P20	375			P-6	(BOARDRM LGTS	145			1P15	14	1
15			_		SPACE	UH-1		50		1P15	16	
17				-	SPACE	SPACE			_		18	"
19	1P15	500			FRIDGE	SPACE					20	1
21	1P15		1000		MICROWAVE	SPACE		_			22]
23	1P15			250	KITCHEN COUNTER RECPT	SPARE			_	1P15	24	1/2
25		_			SPACE	SPARE				1P15	_ 26 _	7
27			_		SPACE	SPACE		_			28	1
29				ı	SPACE	SPACE			_		30]
TO	TAL	1350	1675	1200			870	170	165	то	TAL	
PHAS	E A TO	TAL =	2220									
PHAS	E B TC	TAL =	1845									
PHAS	E C TC	TAL =	1365									
\sim	EL TOT	AL =	5430		@120/208 VOLTS 3 PHAS	E 15.1	AMPS	\sim	\sim	\sim	\sim	
MĂR						P5B ARE REDUNDANT; BOTH						}/







NOT FOR CONSTRUCTION

AL	L DIMENSION	IS TO BE SITE VERIFIED BY CONTRA
6	5-Mar-18	Issued For Addendum
5	9-Feb-18	Issued For Tender
4	1-Feb-18	100% Construction Documents
3	19-Dec-17	66% Construction Documents
2	1-Dec-17	Client Review
1	15-Nov-17	Design Development
#	Date	Description
Revi	sions	
Date	2:	
	NOVEMBER	R 15, 2017
Proi	ect·	

NUNAVUT WATER BOARD NEW OFFICE BUILDING

Gjoa Haven, NU

Drawing by: E.H.

Electrical Single Line and Details

TAG PROJECT # 17-017 STANTEC PROJECT # 144902600





BID DOCUMENTS FOR NUNAVUT WATER BOARD OFFICE BUILDING

6 March 2018 FILE: 144902600-07-02

ISSUED BY:

Kristen Smith, P.Eng., Senior Associate STANTEC CONSULTING LTD. Tel: (709) 576-1458 ext. 5761242 Fax: N/A

kristen.smith@stantec.com

Addendum issued to active tenderers with documents on record ([3] pages including attachments)

1. Clarifications

1.1. Refer to electrical drawing E500. Revise Panel 'G' to a 120/240V panelboard as the Owner-supplied portable generator is only capable of 120/240V power supply. Loads and equipment to remain as indicated in the schedule. Circuiting to be adjusted and reflected on as-builts (Phases A and B).

2. Specifications:

- 2.1. **Delete** the following from the 'Issued For Tender' specifications:
 - 2.1.1. Refer to Section 26 05 00:
 - 2.1.1.1. Delete 1.2.6.4 reference to CAN/ULC-S524, Installation of Fire Alarm Systems
 - 2.1.1.2. Delete 1.2.6.5 reference to CAN/ULC-S537, Verification of Fire Alarm Systems
 - 2.1.1.3. Delete 1.2.7.4 reference to CAN/ULC-S524, Installation of Fire Alarm Systems
 - 2.1.1.4. Delete 1.2.7.5 reference to CAN/ULC-S537, Verification of Fire Alarm Systems
 - 2.1.1.5. Delete 1.8.2.5 reference to Fire Alarm System
 - 2.1.1.6. Delete 2.8.7 Fire alarm pullboxes and junction boxes to be finished in red.
 - 2.1.1.7. Delete 3.5.4.5 Fire alarm manual stations: 1150 mm.
 - 2.1.1.8. Delete 3.5.4.6 Fire alarm signal devices: 2300 mm to the top of device, and no less than 150 mm below finished ceiling. Entire lens to be no less than 2000 mm and no greater than 2400 mm A.F.F.
 - 2.1.1.9. Delete 3.7.2.5 Systems: fire alarm
 - 2.1.1.10. Delete 3.11.1.13 Fire Alarm Verification report is submitted, free of any deficiencies, qualifications or conditions.
 - 2.1.1.11. Delete 3.11.1.14 Overcurrent device protection/coordination study has been completed showing results satisfactory to the Engineer with all identified field settings completed.
 - 2.1.2. Refer to Section 26 05 21:
 - 2.1.2.1. Delete Article 2.5 Fire Alarm Cable in its entirety
 - 2.1.2.2. Delete 3.4.1 Install control cables in conduit (Note: cables to be run free-air)
 - 2.1.2.3. Delete Article 3.6 Installation of Fire Alarm Wiring in its entirety
 - 2.1.3. Refer to Section 26 05 28:
 - 2.1.3.1. Delete 1.1.2 CSA International, reference to CSA Z32
 - 2.1.3.2. Delete 3.5.1.7 Fire alarm and detection 1 #6 AWG RW90-XLPE in 12 mm conduit to nearest ground bus

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- 2.1.4. Refer to Section 26 05 32:
 - 2.1.4.1. Delete 2.3.4 delete paragraph in its entirety
- 2.2. Add the following to the 'Issued For Tender' specifications:
 - 2.2.1. Refer to Section 26 05 00:
 - 2.2.1.1. In Article 1.9 Closeout Submittals, add requirement for Record Drawinas:
 - Provide 1 set of marked up electrical site record drawings. Provide set of white prints of the construction drawings and use for record drawings. Mark thereon all changes as work progresses and as changes occur. This shall include changes to all electrical systems as constructed, including any revisions from addenda, site instructions, or change orders. Ensure that items marked correspond to the drawing title.
 - Use different colour waterproof ink for each service on a per drawing basis.
 - Make mark-ups available for reference purposes and inspection at all times.
 - Scan record drawings and provide Owner with final record marked up hard copies and electronic scanned record drawings on a CD. Include the CD in the Operation and Maintenance Manual. Provide Owner with record drawings at Substantial Completion.

2.2.2.Refer to Section 26 05 21:

- 2.2.2.1. Add to Article 2.2.8 TECK90 Cable, Connectors:
 - 2.2.2.1.1. Item .2 Wet type approved for TECK cable where installed outdoors
- 2.2.3. Refer to Section 26 27 26:
 - 2.2.3.1. Add item 2.1.5 All switches to be commercial specification grade
 - 2.2.3.2. Add item 2.2.1.7 All receptacles to be commercial specification grade
 - 2.2.3.3. Add Article 2.3 Special Wiring Devices, to read as follows:
 - "2.3.1 Generator Connection Receptacle and Plug Set: Pin and Sleeve type connection system specifically for portable generator equipment and including the following features:
 - .1 240V, 30A, single-phase, 3-pole with grounding pole that makes first.
 - .2 Copper free cast aluminum construction with spring closing weather cap.
 - .3 Full weatherproof construction and rain tight connection.
 - .4 Capable of terminating up to 3/0 wiring.
 - .5 Designed for reverse service with hot plug.
 - .6 Receptacle mounting box with 45-degree downward mounting.
 - .7 Plug complete with connector body and plug."
- 2.2.4. Refer to Section 26 28 21:
 - 2.2.4.1. Add item 2.1.6 Circuit breakers to have minimum of 10,000 A symmetrical rms interrupting capacity rating.
- 2.2.5. Refer to Section 26 53 00:
 - 2.2.5.1. Add item 2.1.15 Standards of Acceptance to be: Aimlite RPALW, Lumacell LA Series, or approved equal.
- 2.2.6. Refer to Section 28 16 00:
 - 2.2.6.1. Add Article 2.7 Digital Voice Autodialer to Part 2 Products:
 - ".1 Provide autodialer with the following features:

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- .1 Solid state, user programmable, voice message recording and playback. Not to utilize mechanical tape mechanisms.
- .2 Number of message repetitions adjustable from 1 to 8 times.
- .3 Each channel to be capable of being individually configurable for alarm on "contacts close", "contacts open" or "no alarm".
- .4 Operable on both touch-tone and rotary dial, standard telephone lines.
- .5 Minimum message length of 15 seconds per channel for 4-channels or 30 seconds per channel for 2-channels.
- .6 Autodialer to be 4-channel Paradox Security Systems Paravox 710 or approved equivalent.
- .2 Provide 4 amp/hr battery for use with autodialer.
- .3 Provide 120V/12V transformer with minimum of 250mA output at 12 volts for use with autodialer.
- .4 Each of the following systems shall activate separate autodialer channels with separate phone numbers and separate messages:
 - .1 Mechanical alarm
 - .2 Intrusion alarm"
- 2.3. **Revise** the following in the 'Issued For Tender' specifications:
 - 2.3.1.Refer to Section 26 24 02:
 - 2.3.1.1. Revise item 1.2.4 to read the following: Provide proof of compatible series rated combination groups for breakers and equipment, if used, with shop drawings.
 - 2.3.1.2. Revise item 2.1.15 to read the following: Switchboard and all breakers within are to be part of a compatible series rated combination group which is compatible with the downstream branch circuit panelboards and breakers.
 - 2.3.2. Refer to Section 26 24 17:
 - 2.3.2.1. Revise item 1.2.3 to read the following: Provide proof of compatible series rated combination groups for breakers and equipment, if used, with shop drawings.
 - 2.3.2.2. Revise item 2.1.10 to read the following: Branch circuit panelboards and all breakers within are to be part of a series rated combination group, which is compatible with upstream breakers and service entrance board.
 - 2.3.3. Refer to Section 26 28 21 Moulded Case Circuit Breakers:
 - 2.3.3.1. Revise item 2.1.5 to read the following: All breakers in branch circuit panelboards and the service entrance switchboard are to be part of a compatible series rated combination group.
 - 2.3.4. Refer to Section 28 16 00:
 - 2.3.4.1. Revise item 3.3.3 to read the following: Provide training as indicated in Article 1.2

Distribution:

Taylor Architecture Group Each Bidder Stantec Project File

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