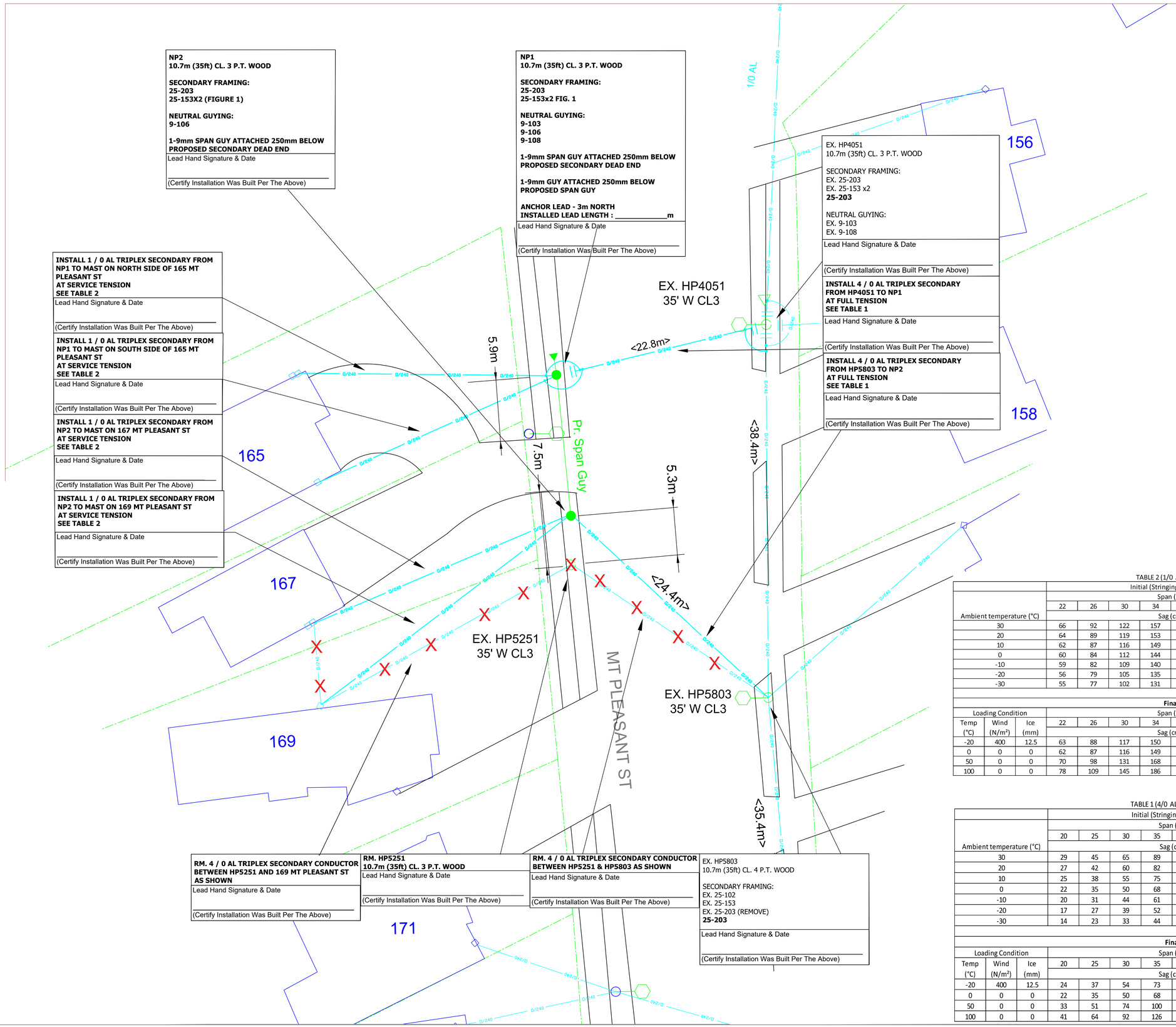


TABLE 2 (1/0 ALUMINUM TRIPLEX)

	Initial (Stringing) Condition								RTS = 3883kg			
	Span (m)								Tension			
	22	26	30	34	38							
Ambient temperature (°C)	Sag (cm)								kg	lbs	kN	%RTS
30	66	92	122	157	196				53	117	0.52	2.6
20	64	89	119	153	191				55	121	0.54	2.7
10	62	87	116	149	186				56	123	0.55	2.8
0	60	84	112	144	180				58	128	0.57	2.9
-10	59	82	109	140	175				60	132	0.59	3
-20	56	79	105	135	168				62	137	0.61	3.1
-30	55	77	102	131	164				64	141	0.63	3.2

Final Condition

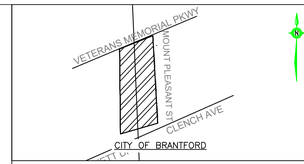
Loading Condition			Span (m)								Tension			
Temp	Wind	Ice	22	26	30	34	38							
(°C)	(N/m²)	(mm)	Sag (cm)								kg	lbs	kN	%RTS
-20	400	12.5	63	88	117	150	188				270	595	2.65	13.3
0	0	0	62	87	116	149	186				56	123	0.55	2.8
50	0	0	70	98	131	168	210				50	110	0.49	2.5
100	0	0	78	109	145	186	233				45	99	0.44	2.2

TABLE 1 (4/0 ALUMINUM TRIPLEX BUS)

	Initial (Stringing) Condition								RTS = 3883kg			
	Span (m)								Tension			
	20	25	30	35	40	45						
Ambient temperature (°C)	Sag (cm)								kg	lbs	kN	%RTS
30	29	45	65	89	116	146			200	441	1.96	5.2
20	27	42	60	82	107	136			216	476	2.12	5.6
10	25	38	55	75	98	125			235	519	2.31	6.1
0	22	35	50	68	89	113			260	573	2.55	6.7
-10	20	31	44	61	79	100			293	645	2.87	7.5
-20	17	27	39	52	69	87			337	744	3.31	8.7
-30	14	23	33	44	58	73			400	881	3.92	10.3

Final Condition

Loading Condition			Span (m)								Tension			
Temp	Wind	Ice	20	25	30	35	40	45						
(°C)	(N/m²)	(mm)	Sag (cm)								kg	lbs	kN	%RTS
-20	400	12.5	24	37	54	73	96	121			751	1655	7.36	19.3
0	0	0	22	35	50	68	89	113			260	573	2.55	6.7
50	0	0	33	51	74	100	131	166			177	389	1.73	4.5
100	0	0	41	64	92	126	164	208			141	311	1.38	3.6



LEGEND

LINE TYPES

- OVERHEAD 3Ø 27.6kV DISTRIBUTION LINE — 27.6
- OVERHEAD 1Ø 16kV DISTRIBUTION LINE - RED PHASE — 16
- OVERHEAD 1Ø 16kV DISTRIBUTION LINE - WHITE PHASE — 16
- OVERHEAD 1Ø 16kV DISTRIBUTION LINE - BLUE PHASE — 16
- UNDERGROUND 3Ø 27.6kV DISTRIBUTION LINE — 27.6
- UNDERGROUND 1Ø 16kV DISTRIBUTION LINE - RED PHASE — 16
- UNDERGROUND 1Ø 16kV DISTRIBUTION LINE - WHITE PHASE — 16
- UNDERGROUND 1Ø 16kV DISTRIBUTION LINE - BLUE PHASE — 16
- UNDERGROUND 120/240V SECONDARY (3/0 Al TRIPLEX) — 0/240
- OVERHEAD 120/240V SECONDARY — 0/240
- OVERHEAD 208/120V SECONDARY — 0/208
- UNDERGROUND 208/120V SECONDARY — 0/208
- OVERHEAD 600/347V SECONDARY — 0/600
- UNDERGROUND 600/347V SECONDARY — 0/600
- OVERHEAD ST.LIGHT SECONDARY CONDUCTOR — 0/SL
- UNDERGROUND ST.LIGHT SECONDARY CONDUCTOR — 0/SL
- 4-100mm SPARE DUCTS
- 6-100mm SPARE DUCTS — 6
- CONCRETE ENCASED
- PROPERTY LINE

SYMBOLS

- PROPOSED POLEMOUNT TRANSFORMER
- EXISTING POLEMOUNT TRANSFORMER
- PROPOSED POLEMOUNT POLYPHASE TRANSFORMER
- EXISTING POLEMOUNT POLYPHASE TRANSFORMER
- PADMOUNT TRANSFORMER
- EXISTING PADMOUNT TRANSFORMER
- PROPOSED GUY AND ANCHOR — G&A
- EXISTING GUY AND ANCHOR
- PROPOSED HYDRO POLE
- EXISTING HYDRO POLE — Ex. HP
- LUMINAIRE
- 60 AMP STREET LIGHT DISCONNECT BOX — ASD
- FUSED CUTOUT (100k unless otherwise specified) FAULT TAMER 10a unless otherwise specified — 100k
- GANG OPERATED SWITCH
- SOLID INLINE SWITCH
- SWITCH/SWITCHING UNIT (refer to note)
- FAULT INDICATOR

FOR CONSTRUCTION

Certificate of Approval (Design)
The installation covered this document meets the safety requirements of Section 4 of Ont. Reg. 22/04.

Name — Date

Signature & Professional Designation

Record of Inspection
This certifies that the construction as recorded on this drawing or form has been inspected in accordance with **Ont. Reg. 22/04.**

Name — Date

Signature — Position

Certificate
This is to certify that the construction as recorded in this drawing is consistent with the approved plan, Standard Designs, or work instruction and that approved equipment has been used.

Name — Date

Signature — Position

REV.	DATE		BY
0.		ISSUED FOR CONSTRUCTION	
B.		EIT REVIEW	
A.	2024/01/23	ENG. CIRCULATIONS	GC

GrandBridge ENERGY

TITLE:
165 Mount Pleasant St
Pole Relocation and 165 Mount Pleasant Energization

SCALE: 1:200
JOB NUMBER: C24-B-017
DRAWING:
DESIGNER: GC
DATE: 2024/03/06