



Orientation	
	Size A3
Scale 1 : 100	
XLBrng 96.00 deg.	
Date 12/04/2011	/Mg
Ln/XL 0.00 deg.	
Ln/AL 0.00 deg.	

Load Diagrams		Load	Strength
Bending Moment	General	---	---
++++ (kNm) 70	Seismic	---	---
Shear Force	General	---	---
++++ (kN) 160	Seismic	---	---
Soil Pressure 50	Seismic	---	---
++++ (kPa) 120	Bearing	---	---

Notes	
1) Replace pole with single 10m Concrete Pole	
2)	
3)	
4)	

Action	
1)	
2)	
3)	
4)	

#	Target	Qty	Reference	Status	Description	Parameters	Inventory
1	P1	1	Line Pole	Erect New	Concrete(PS): Rctlr(Dish) 10m Concrete pole	L 10(m) : GLD 240 x 430(mm) : #/OD 4#8(mm)	
2	M1	1	Cross Arm	Erect New	Wood(HHD): Rctlr(Solid) LV Arm	L 2.1(m) : MXS 75 x 100(mm) : Shaved/Natural	
3	M2	1	Cross Arm	Erect New	Wood(HHD): Rctlr(Solid) LV Arm	L 1.5(m) : MXS 75 x 75(mm) : Shaved/Natural	
4	F1	1	Pole Collar	Erect New	Concrete(Rf): Round(Hlw) Single Donut	L 0.225(m) : MSX 500 x 500(mm) : #/OD 4/18(mm)	
5	N1	4	Insulabr (Line)	Erect New	Porcelain: Pin (Standard)	Line Voltage / Unit: 0.4 kV	
6	C1	3	Conductor	As-Built (42 Yrs)	AAC:Weta(19/3.35) PVC 0.4kV 3Ph	Hr(%CBS) 4.2 (0 Jnts) : L(m) 29 : B(deg) 6 : S(deg) 0	
7	C2	1	Conductor	As-Built (42 Yrs)	AAC:Rango(7/3.66) Bare 0kV Neutral	Hr(%CBS) 3.7 (0 Jnts) : L(m) 29 : B(deg) 6 : S(deg) 0	
8	C3	1	Conductor	As-Built (42 Yrs)	HDCC:7/17(7/1.38) PVC 0.23kV Steeltight	Hr(%CBS) 5.3 (0 Jnts) : L(m) 29 : B(deg) 6 : S(deg) 0	
9	C4	3	Conductor	As-Built (42 Yrs)	AAC:Weta(19/3.35) PVC 0.4kV 3Ph	Hr(%CBS) 4 (0 Jnts) : L(m) 43 : B(deg) 186 : S(deg) 0	
10	C5	1	Conductor	As-Built (42 Yrs)	AAC:Rango(7/3.66) Bare 0kV Neutral	Hr(%CBS) 3.5 (0 Jnts) : L(m) 43 : B(deg) 186 : S(deg) 0	
11	C6	1	Conductor	As-Built (42 Yrs)	HDCC:7/17(7/1.38) PVC 0.23kV Steeltight	Hr(%CBS) 5 (0 Jnts) : L(m) 43 : B(deg) 186 : S(deg) 0	
12	C7	1	Cable	As-Built (42 Yrs)	NScreen(Cu):16mm(7/1.70) 2Cr PVC 0.23kV 1Ph	Hr(%CBS) 2 (0 Jnts) : L(m) 8 : B(deg) 50 : S(deg) 0	
13	C8	1	Cable	As-Built (42 Yrs)	NScreen(Cu):16mm(7/1.70) 2Cr PVC 0.23kV 1Ph	Hr(%CBS) 2 (0 Jnts) : L(m) 11 : B(deg) 143 : S(deg) 0	
14	C9	1	Cable	As-Built (42 Yrs)	NScreen(Cu):16mm(7/1.70) 2Cr PVC 0.23kV 1Ph	Hr(%CBS) 2 (0 Jnts) : L(m) 11 : B(deg) 143 : S(deg) 0	
15	C10	1	Cable	As-Built (42 Yrs)	NScreen(Cu):16mm(7/1.70) 2Cr PVC 0.23kV 1Ph	Hr(%CBS) 2 (0 Jnts) : L(m) 11 : B(deg) 143 : S(deg) 0	
16	C11	3	Conductor	As-Built (42 Yrs)	HDCC:7/16(7/1.70) PVC 0.4kV 2Ph+N	Hr(%CBS) 2 (0 Jnts) : L(m) 8 : B(deg) 234 : S(deg) 0	
17	C12	3	Conductor	As-Built (42 Yrs)	HDCC:7/16(7/1.70) PVC 0.4kV 2Ph+N	Hr(%CBS) 3 (0 Jnts) : L(m) 23 : B(deg) 281 : S(deg) 0	

Tests	#	Target	Prt	Instruction	Comments	Requirements
	1	Pole P1	High	Erect New Heavier Pole(s)	Replace with Single 10m Concrete Pole	
	2	Pole F1, 2	High	Erect New (Install) Pole Block(s)	Install Base and Breast Blocks.	

Reserved		Exposure			
Ref Site/Node	Prx	Wind	(Pa)	1,200.000	
Distance (m)	0.00	Snow	(Pa)	0.000	
Bearing (deg)	0.00	Ice mm	LC Mx	0.00	1.00
Terrain	Bush/Urban	T-Amb (deg C)	15.00		
Topography	Flat/Undulating	T-High	T-Low	50.00	0.00
Class	Slope	B1	0.00	Soil Class	VFirm
Site Access	Good Land Vehicle Access (Seasonal Weather Restrictions)				

Performance		Load (SLS)		S.I (SLS)	
Classification	II	General	XLine ↓	3.86	6.09
Nom. Hght (m)	8.20	ALine	→	3.18	1.63
Seismic Ftr (z)	1.00	Seismic	XLine ↑	0.54	22.39
Ductility Rr (u)	1.00	(kN)	ALine →	0.60	8.04
VPeriod XL (s)	3.90	Foundation	Lateral ↑	56.70	2.54
VPeriod AL (s)	3.75	(kPa)	Bearing ⊗	59.27	6.07
Axial Load (kN)	14.57	Calc Model Rf	LSE V2010 SLS/SICalc		

		Inspected	ABC02	9/04/2011	Structure Data Sheet (SI Calculations)		Zone	North
		Modelled	ABC01	17/01/2012			Line	Northern
		Reviewed					Site	12345
Power Company NZ		North		Site Address		Ntwk#		1
				26 Orange Street		Node#		1