



WAI-VUD-A

WORK SCOPE ASSESSMENT REPORT

Structures

WAI-VUD-A0037, A0038, A0040, A0041, A0042

Project Code: MR07-2024

Work ID: 0

LUMEN

May-2025



Structure looking towards CD Face



Tower ID	WAI-VUD-A0037	
Contract number	H5G+3	
Final No.	63-2	
Insulator Type/ Condition	COMPOSITE	
Type	0	
Body Extn - size	0	
Legs - size	+/-0, +1, +1, +1	
Earth Wire	#N/A	
Tower Area m²	156	
Rust m²	13	8%
Sweep m²	143	92%

RC steel identified	No
Earth plates fitted/ Compliant	#N/A
Climbing Deterrent Fitted	YES
Padlock Type	None
Environmental Rating	Low impact on neighbouring activities, easily secured from public.
Vehicle Access	Grass hill, track or paddock prone to water. Special caution required.
Vegetation Control	Not Required
Property Usage	Dry Stock farming (sheep, beef, deer or a combination)
Foundation Connection Type	TSC
Bridge/ Culverts	YES
Cell Coverage	Strong

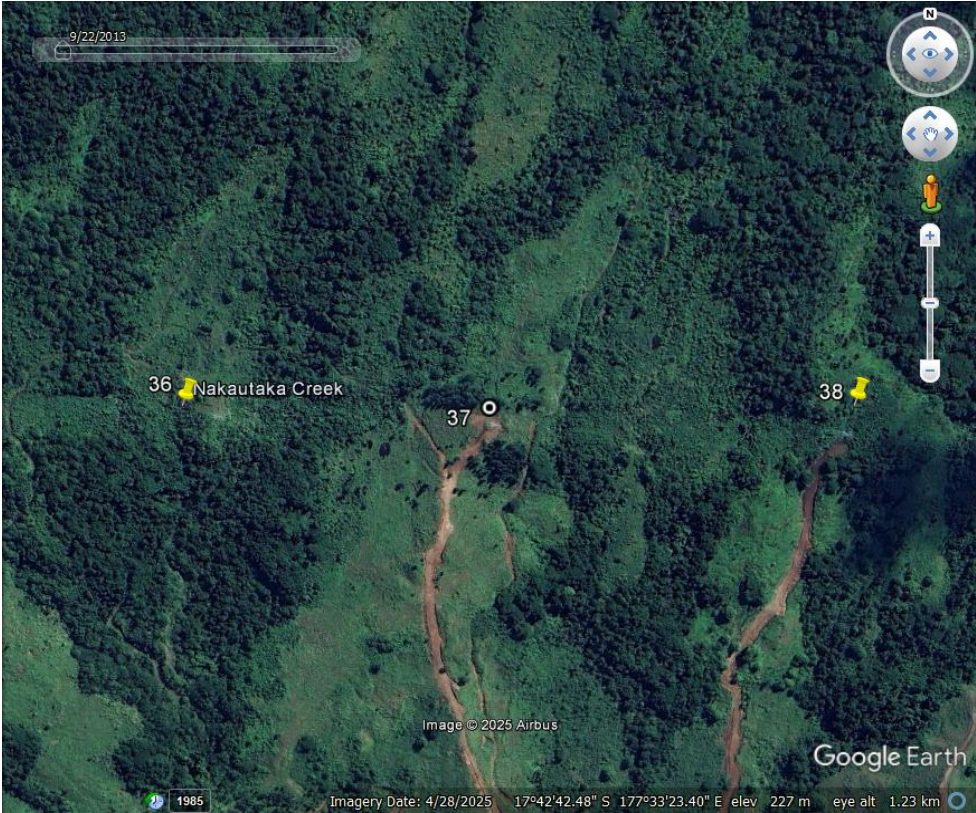
Comments

CPI - no cpi's in Fiji
CTE on all 4 legs, CTE has failed
Sharp Galv dross throughout tower
Minor construction damage on structure.
River crossing, exercise caution when crossing, river can rise very quickly after heavy rain.
Contractor is in the process of opening up the access, still very wet, and clay surfaces throughout the tracks
Steep access up and down to tower, caution when driving.
LSD - faded
Misaligned stepbolt holes on climbing leg.
Yellow phase composite insulator has flashed over.

Step Bolts: 60

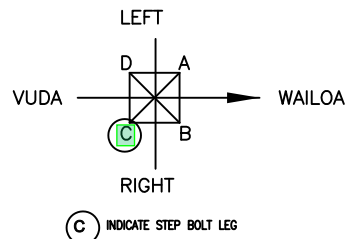
Comment: Minor SURFACE RUST

RC Bolts 5



LANDOWNER DETAILS		INSPECTION TEAM LUMEN		Date	GPS COORDINATES (WGS84)			WAI-VUD-A				
				14/05/2025				DRG. SIZE	SCALE	FOLDER		
LandOwner	Efi To Sort Out	Inspector-Tower	Karl Formo		LATITUDE	17°42'42.48"S		Work Scope Assessment Report - May-2025	WID	0	SHEET	REVISION
TowerAccess	Sabeto Road	Inspector-Ground	Karl Formo		LONGITUDE	177°33'23.40"E					1	2
ContactName	Efi To Sort Out	Draft Report	R Glover	22/05/2025					WAI-VUD-A0037			
ContactPhone	Efi To Sort Out	Report Review	M Boardman	23/05/2025								

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NUMBER OF REPLACEMENT CRITERIA STEEL MEMBERS	
MINOR	
MAJOR(CRITICAL)	
MAJOR(OTHER)	

NUMBER OF REPLACEMENT CRITERIA BOLTS	

RC STEEL	
STEEL RATED AT CA21-30	
RC BOLTS	

STRUCTURE DESCRIPTION	
LINE:	WAI-VUD-A
STR No.	0037
BODY EXTN:	NIL
LEG A:	+/-0
LEG B:	+1
LEG C:	+1
LEG D:	+1
INSPECTED BY:	K.FORMO
COMPANY:	LUMEN
DATE:	14/05/2025

FOUNDATIONS	
GRILLAGE	Y
CONCRETE	
MASS CONC.	

HANGER	
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	PLT

EARTHPEAK

SINGLE E/PEAK

HANGER	
SWIVEL	Y
TBT	
REPLACEMENT	
ORIGINAL	

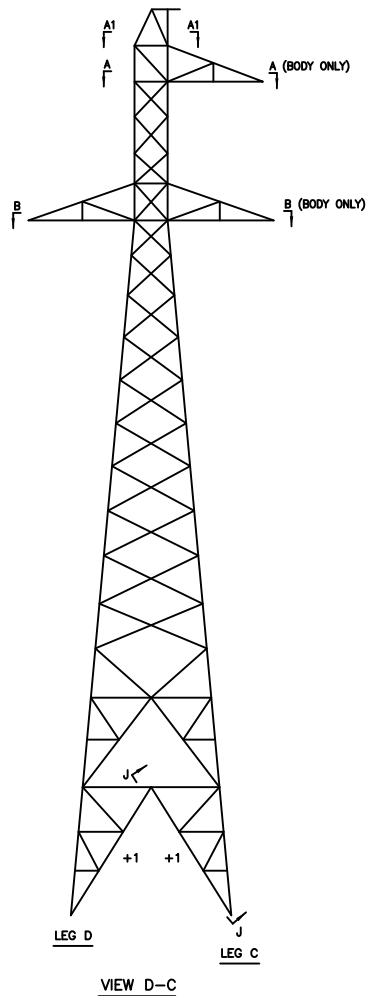
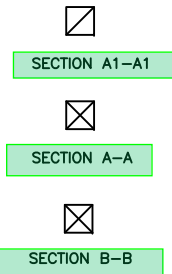
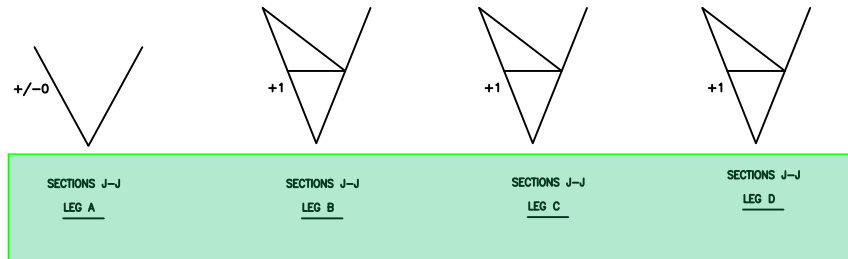
TOP

HANGER	
SWIVEL	Y
TBT	
REPLACEMENT	
ORIGINAL	

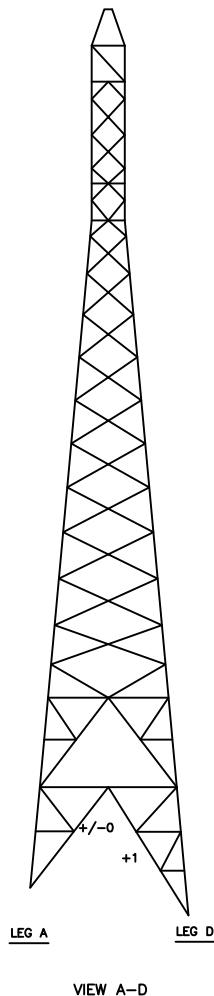
BOTTOM

HANGER	
SWIVEL	Y
TBT	
REPLACEMENT	
ORIGINAL	

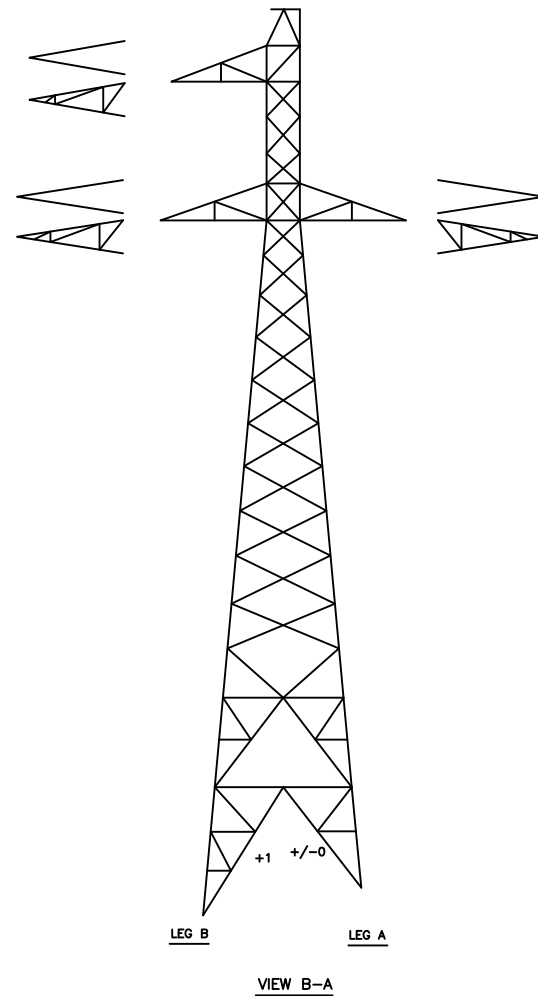
ATTACHMENT DETAILS



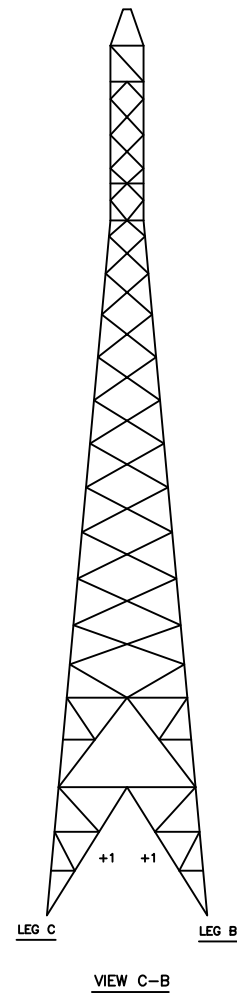
VIEW D-C



VIEW A-D



VIEW B-A



VIEW C-B

TOWER TYPE USED: HSG+3

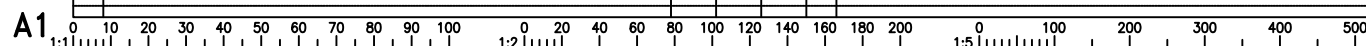
AMENDMENT				BY	CHKD	DATE	AMENDMENT				BY	CHKD	DATE

DRAWN	M.L.	2.23
DESIGNED	LUMEN	2.23
CHECKED		
APPROVED	-	-
CAD FILE		

LUMEN
Consulting
210 Hazeldean Rd.
PO Box 25052
Christchurch, New Zealand
Tel +64 (03) 377 1546

ENERGY FIJI LTD	
VUDA - WAILOA LINE TOWER 63-2(37) OUTLINE	

SCALE	N.T.S
VUD-WAI 63-2	ISS. -1





Structure looking towards CD Face



Tower ID	WAI-VUD-A0038	
Contract number	S2G+6	
Final No.	63-1	
Insulator Type/ Condition	COMPOSITE	
Type	0	
Body Extn - size	0	
Legs - size	+/-0, +1, +1, +/-0	
Earth Wire	#N/A	
Tower Area m²	120	
Rust m²	12	10%
Sweep m²	94	78%

RC steel identified	No
Earth plates fitted/ Compliant	#N/A
Climbing Deterrent Fitted	YES
Padlock Type	None
Environmental Rating	Low impact on neighbouring activities, easily secured from public.
Vehicle Access	Grass hill, track or paddock prone to water. Special caution required.
Vegetation Control	Not Required
Property Usage	Dry Stock farming (sheep, beef, deer or a combination)
Foundation Connection Type	TSC
Bridge/ Culverts	YES
Cell Coverage	Strong

Comments

CPI - no cpi's in Fiji

CTE on all 4 legs, CTE has failed

Sharp Galv dross throughout tower

Minor construction damage on structure.

River crossing, exercise caution when crossing, river can rise very quickly after heavy rain.

Contractor is in the process of opening up the access, still very wet, and clay surfaces throughout the tracks

Steep access up and down to tower, caution when driving.

LSD - faded

K-brace, DA face RC, hit by boulder.

Step Bolts: 72

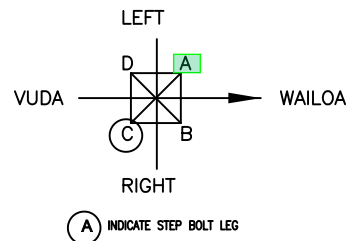
Comment: Minor SURFACE RUST

RC Bolts 5



LANDOWNER DETAILS		INSPECTION TEAM LUMEN		Date	GPS COORDINATES (WGS84)			WAI-VUD-A			
				14/05/2025				DRG. SIZE	SCALE	FOLDER	
LandOwner	Efi To Sort Out	Inspector-Tower	Karl Formo		LATITUDE	17°42'42.48"S		WID	0	CAP20477	
TowerAccess	Sabeto Road	Inspector-Ground	Karl Formo		LONGITUDE	177°33'37.80"E				SHEET	REVISION
ContactName	Efi To Sort Out	Draft Report	R Glover	22/05/2025						1	2
ContactPhone	Efi To Sort Out	Report Review	M Boardman	23/05/2025			WAI-VUD-A0038				
Work Scope Assessment Report - May-2025											

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STRUCTURE DESCRIPTION	
LINE:	WAI-VUD-A
STR No.	0038
BODY EXTN:	NIL
LEG A:	+/-0
LEG B:	+1
LEG C:	+1
LEG D:	+/-0
INSPECTED BY:	K.FORMO
COMPANY:	LUMEN
DATE:	14/05/2025

FOUNDATIONS	
GRILLAGE	Y
CONCRETE	
MASS CONC.	

NUMBER OF REPLACEMENT CRITERIA STEEL MEMBERS	
MINOR	
MAJOR(CRITICAL)	
MAJOR(OTHER)	

NUMBER OF REPLACEMENT CRITERIA BOLTS	

RC STEEL	
STEEL RATED AT CA21-30	
RC BOLTS	

HANGER	
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	PLT

EARTHPEAK

SINGLE E/PEAK

+1

HANGER	Y
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

TOP

MARK CAN YOU ADD IN THE LITTLE DIAGONAL AT THE END OF THE CROSSARM

HANGER	Y
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

BOTTOM

HANGER	Y
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

ATTACHMENT DETAILS



SECTIONS J-J
LEG A

SECTIONS J-J
LEG B

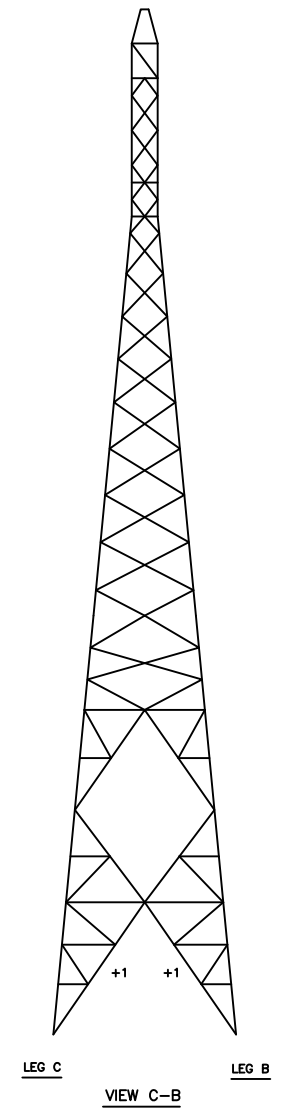
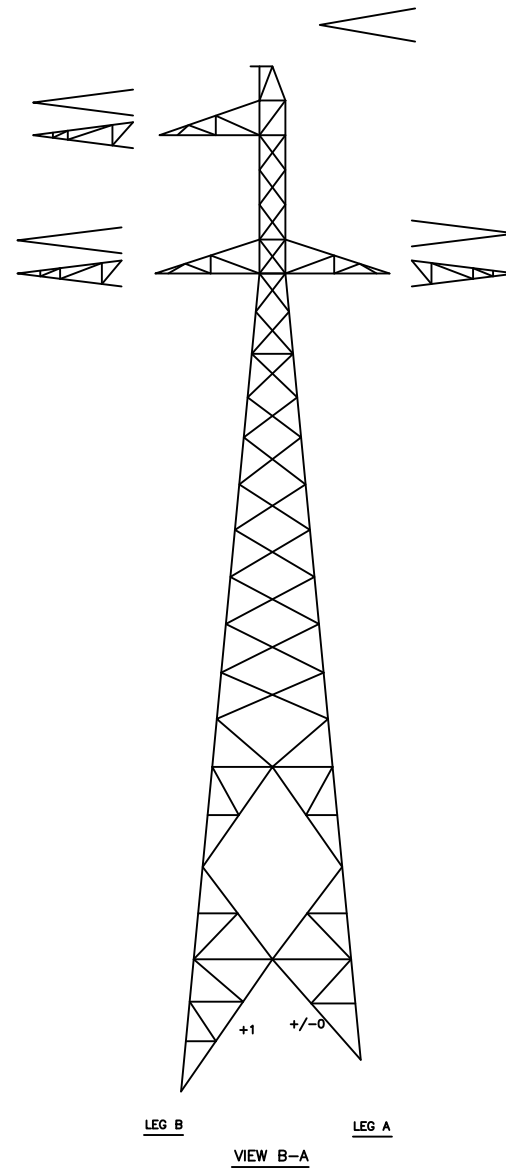
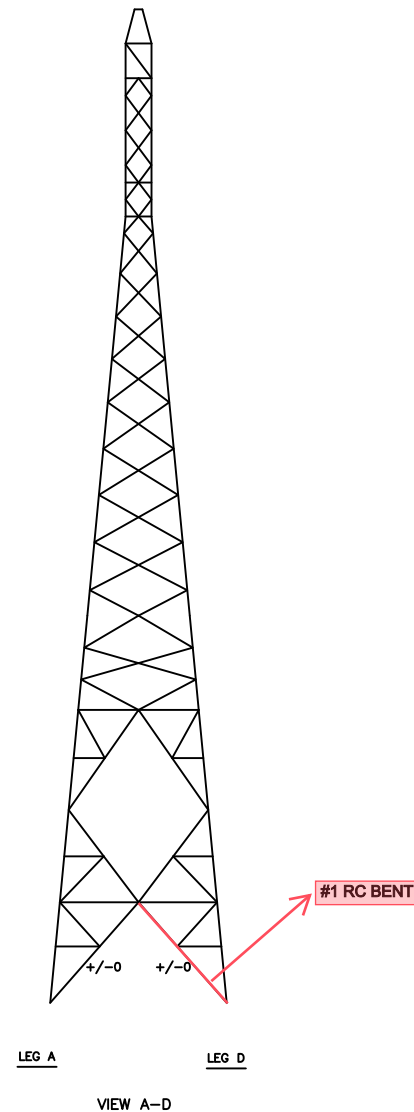
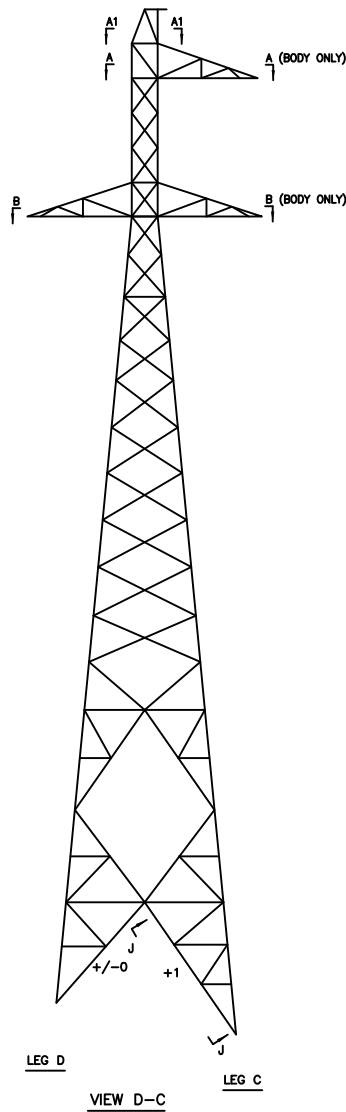
SECTIONS J-J
LEG C

SECTIONS J-J
LEG D

SECTION A1-A1

SECTION A-A

SECTION B-B



TOWER TYPE USED: S2G+6

A1

1:1 0 10 20 30 40 50 60 70 80 90 100 1:2 0 20 40 60 80 100 120 140 160 180 200 1:5 0 100 200 300 400 500

AMENDMENT	BY	CHKD	DATE	AMENDMENT	BY	CHKD	DATE

DRAWN	M.L.	2.23
DESIGNED	LUMEN	2.23
CHECKED		
APPROVED	-	-
CAD FILE		

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210 Hazeldean Rd.
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Christchurch, New Zealand
Tel +64 (03) 377 1546

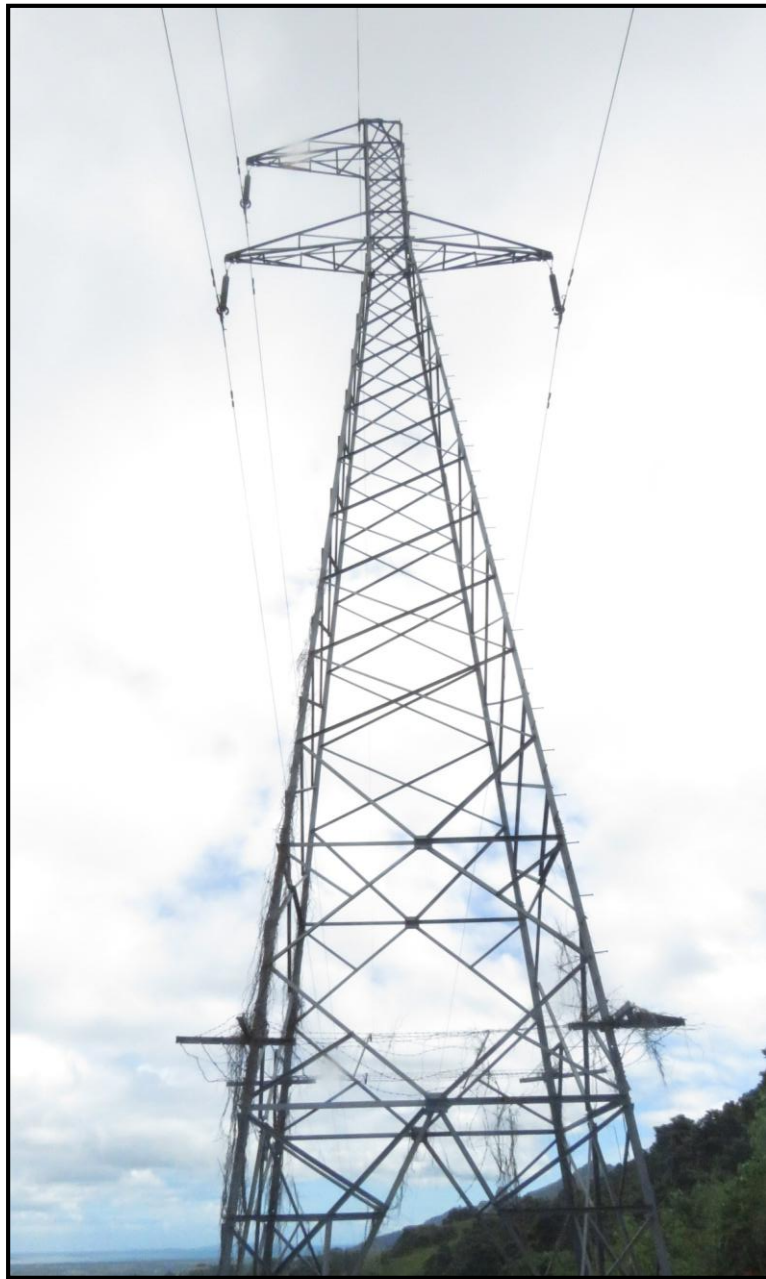
ENERGY FIJI LTD

VUDA - WAILOA LINE
TOWER 63-1(38) OUTLINE

SCALE N.T.S

VUD-WAI 63-1

ISS.
-1



Structure looking towards AB Face

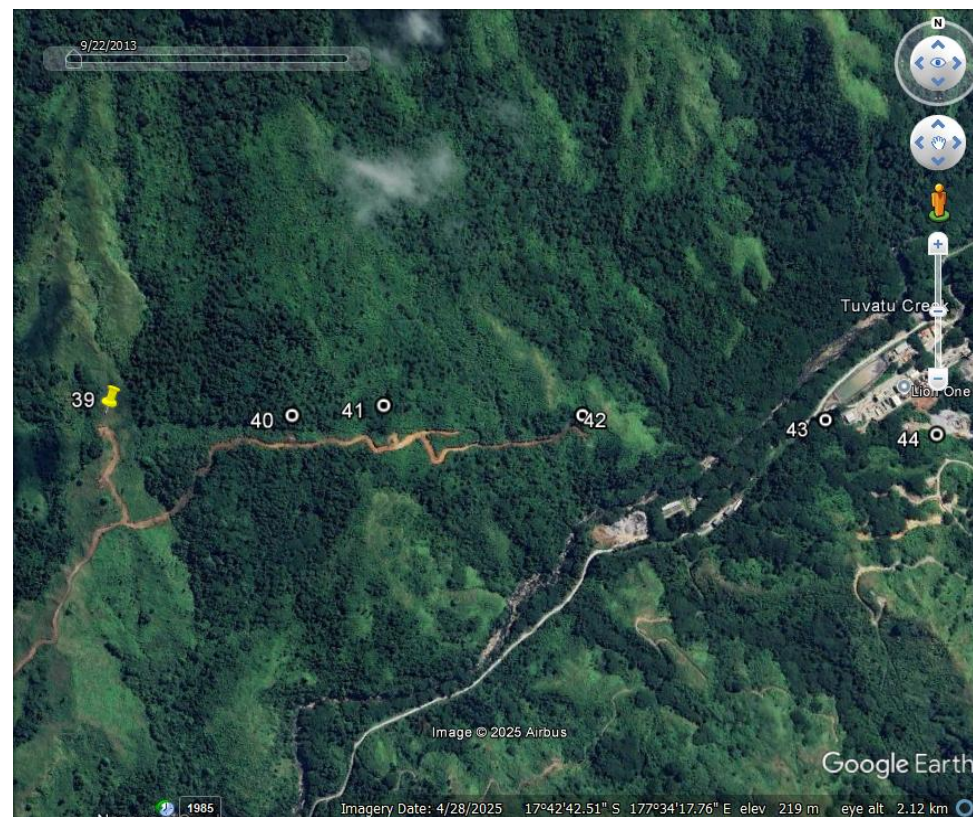


Tower ID	WAI-VUD-A0040	
Contract number	S2G+3	
Final No.	62-2	
Insulator Type/ Condition	COMPOSITE	
Type	0	
Body Extn - size	0	
Legs - size	+1, +1, +1, +/-0	
Earth Wire	#N/A	
Tower Area m²	162	
Rust m²	14	9%
Sweep m²	142	88%

RC steel identified	No
Earth plates fitted/ Compliant	#N/A
Climbing Deterrent Fitted	YES
Paddock Type	None
Environmental Rating	Low impact on neighbouring activities, easily secured from public.
Vehicle Access	Grass hill, track or paddock prone to water. Special caution required.
Vegetation Control	Not Required
Property Usage	Dry Stock farming (sheep, beef, deer or a combination)
Foundation Connection Type	TSC
Bridge/ Culverts	YES
Cell Coverage	Strong

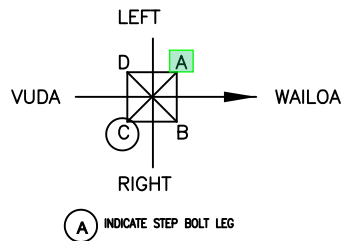
Comments
CPI - no cpi's in Fiji
CTE on all 4 legsCTE has failed
Sharp Galv dross throughout tower
Minor construction damage on structure.
River crossing, exercise caution when crossing, river can rise very quickly after heavy rains.
Contractor is in the process of opening up the access, still very wet, and clay surfaces throughout the tracks
Steep access up and down to tower, caution when driving.
LSD - faded
Steel member missing on AD face # 433, 6th diagonal up, top of a leg to bottom of D-Leg.

Step Bolts: 64
Comment: Minor SURFACE RUST
RC Bolts 5



LANDOWNER DETAILS		INSPECTION TEAM LUMEN		Date	GPS COORDINATES (WGS84)			WAI-VUD-A			
				13/05/2025				DRG. SIZE	SCALE	FOLDER	
LandOwner	Efi To Sort Out	Inspector-Tower	Karl Formo	LATITUDE	17°42'42.48"S	A3		N/A	CAP20477		
TowerAccess	Sabeto Road	Inspector-Ground	Karl Formo	LONGITUDE	177°34'2.28"E	WID		0	SHEET	REVISION	
ContactName	Efi To Sort Out	Draft Report	R Glover						1	2	
ContactPhone	Efi To Sort Out	Report Review	M Boardman				WAI-VUD-A0040				

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STRUCTURE DESCRIPTION	
LINE:	WAI-VUD-A
STR No:	0040
BODY EXTN:	NIL
LEG A:	+1
LEG B:	+1
LEG C:	+1
LEG D:	+/-1
INSPECTED BY:	K.FORMO
COMPANY:	LUMEN
DATE:	13/05/2025

FOUNDATIONS	
GRILLAGE	Y
CONCRETE	
MASS CONC.	

NUMBER OF REPLACEMENT CRITERIA STEEL MEMBERS	
MINOR	
MAJOR(CRITICAL)	
MAJOR(OTHER)	

NUMBER OF REPLACEMENT CRITERIA BOLTS	

RC STEEL	
STEEL RATED AT CA21-30	
RC BOLTS	

HANGER	
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	PLT

HANGER	
SWIVEL	Y
TBT	
REPLACEMENT	
ORIGINAL	

HANGER	Y
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

HANGER	Y
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

MARK CAN YOU ADD IN THE MINOR DIAGONALS AT THE END OF THE CROSSARM

ATTACHMENT DETAILS

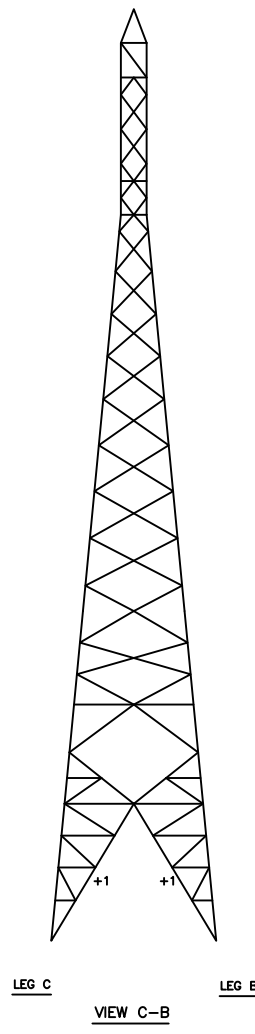
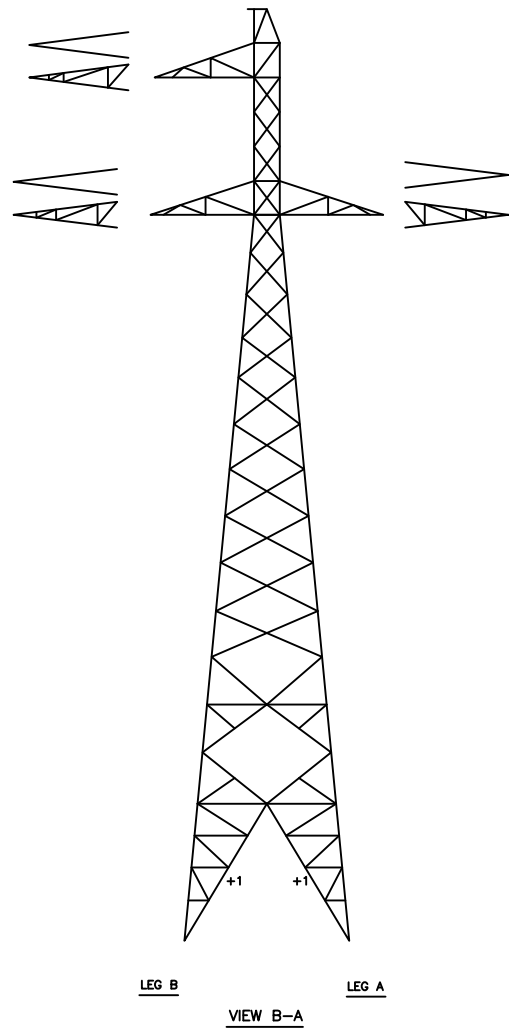
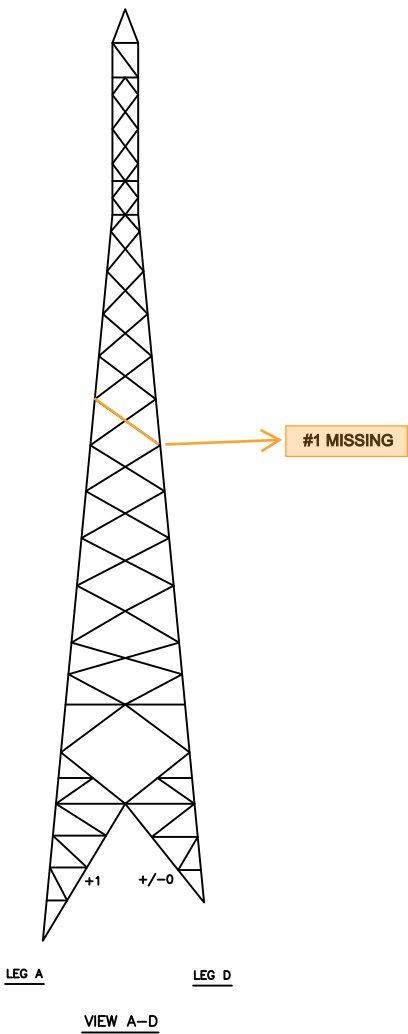
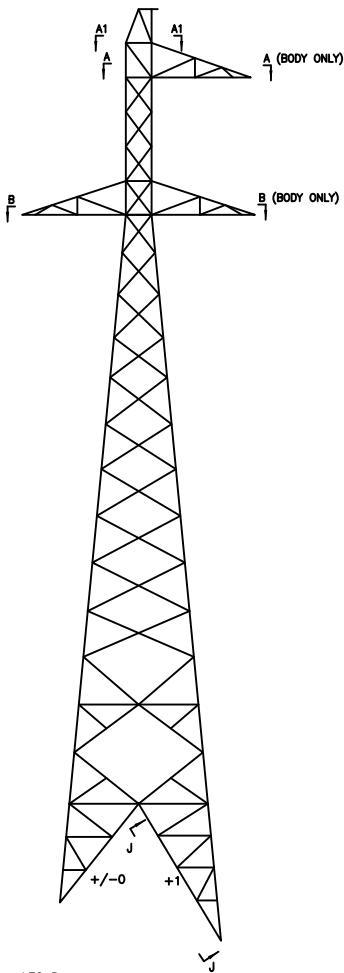
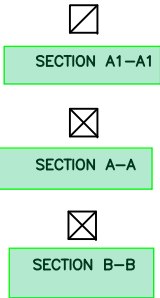


SECTIONS J-J
LEG A

SECTIONS J-J
LEG B

SECTIONS J-J
LEG C

SECTIONS J-J
LEG D



TOWER TYPE USED: S2G+3

AMENDMENT	BY	CHKD	DATE	AMENDMENT	BY	CHKD	DATE

DRAWN	M.L.	2.23
DESIGNED	LUMEN	2.23
CHECKED		
APPROVED	-	-
CAD FILE		

LUMEN
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210 Hazeldene Rd.
PO Box 25052
Christchurch, New Zealand
Tel +64 (03) 377 1546

ENERGY FIJI LTD		SCALE N.T.S	
VUDA - WAILOA LINE TOWER 62-2(40) OUTLINE		VUD-WAI 62-2	ISS. -1



Structure looking towards AB Face



Tower ID	WAI-VUD-A0041	
Contract number	S2G-3	
Final No.	62-1	
Insulator Type/ Condition	COMPOSITE	
Type	0	
Body Extn - size	0	
Legs - size	+1, +1, +1, +1	
Earth Wire	YES	
Tower Area m²	111	
Rust m²	11	10%
Sweep m²	94	85%

RC steel identified	No
Earth plates fitted/ Compliant	#N/A
Climbing Deterrent Fitted	YES
Padlock Type	None
Environmental Rating	Low impact on neighbouring activities, easily secured from public.
Vehicle Access	Grass hill, track or paddock prone to water. Special caution required.
Vegetation Control	Not Required
Property Usage	Dry Stock farming (sheep, beef, deer or a combination)
Foundation Connection Type	TSC
Bridge/ Culverts	YES
Cell Coverage	Strong

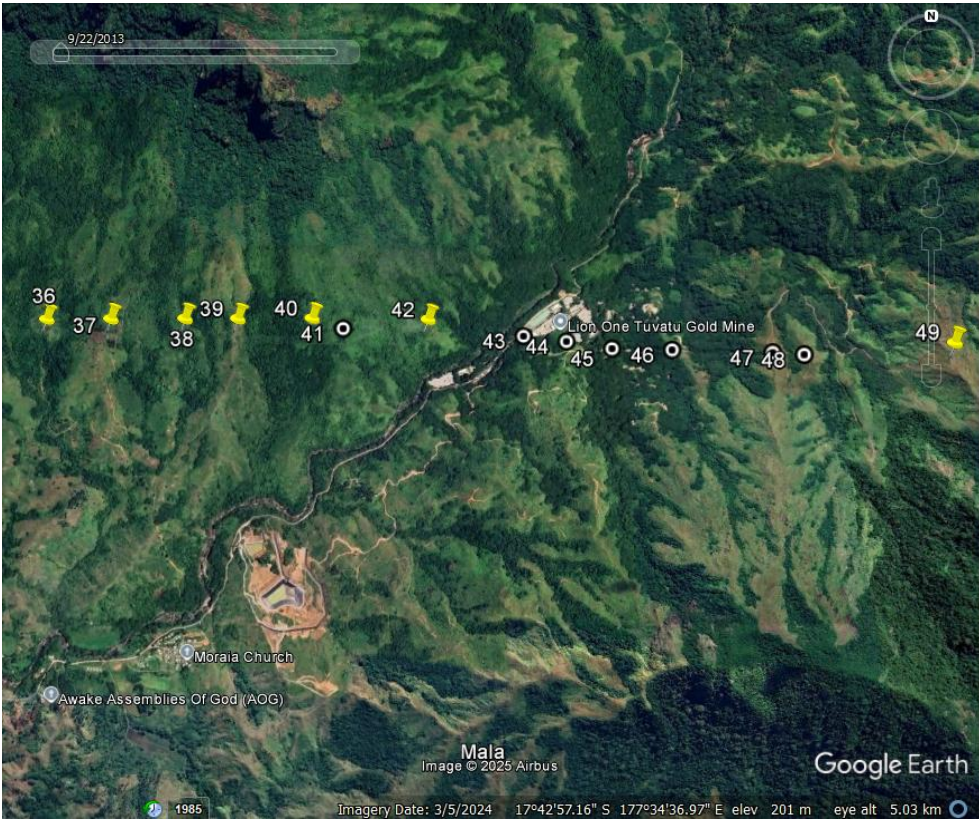
Comments

CPI - no cpi's in Fiji
CTE on all 4 legs, CTE has failed
Sharp Galv dross throughout tower
Minor construction damage on structure.
River crossing, exercise caution when crossing, river can rise very quickly after heavy rain.
Contractor is in the process of opening up the access, still very wet, and clay surfaces throughout the tracks
No LSD on structure
Bird excrement throughout tower.

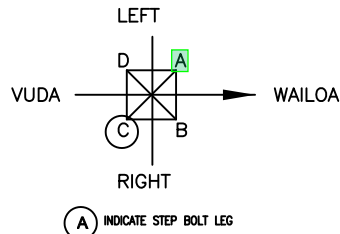
Step Bolts: 50

Comment: Minor SURFACE RUST

RC Bolts 5



LANDOWNER DETAILS		INSPECTION TEAM LUMEN		Date	GPS COORDINATES (WGS84)			WAI-VUD-A			
				8/05/2025				DRG. SIZE	SCALE	FOLDER	
LandOwner	Efi To Sort Out	Inspector-Tower	Karl Formo		LATITUDE	17°42'41.76"S		A3	N/A	CAP20477	
TowerAccess	Sabeto Road	Inspector-Ground	Karl Formo		LONGITUDE	177°34'9.12"E		WID	0	SHEET	REVISION
ContactName	Efi To Sort Out	Draft Report	R Glover	22/05/2025						1	2
ContactPhone	Efi To Sort Out	Report Review	M Boardman	23/05/2025						WAI-VUD-A0041	
							Work Scope Assessment Report - May-2025				



NUMBER OF REPLACEMENT CRITERIA STEEL MEMBERS	
MINOR	
MAJOR(CRITICAL)	
MAJOR(OTHER)	

NUMBER OF REPLACEMENT CRITERIA BOLTS	
RC STEEL	
STEEL RATED AT CA21-30	
RC BOLTS	

RC STEEL	
STEEL RATED AT CA21-30	
RC BOLTS	

STRUCTURE DESCRIPTION	
LINE:	WAI-VUD-A
STR No.	0041
BODY EXTN:	NIL
LEG A:	+1
LEG B:	+1
LEG C:	+1
LEG D:	+1
INSPECTED BY:	K.Formo
COMPANY:	LUMEN
DATE:	08/05/2025

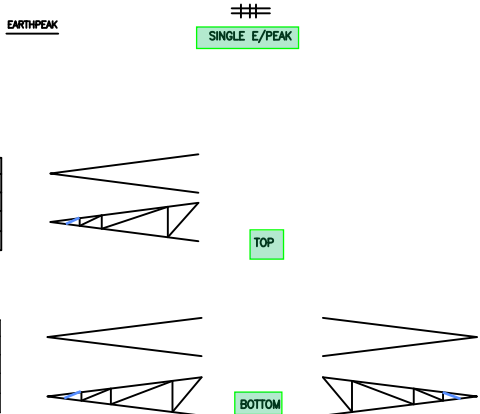
FOUNDATIONS	
GRILLAGE	Y
CONCRETE	
MASS CONC.	

HANGER	
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	PLT

HANGER	Y
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

HANGER	Y
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	

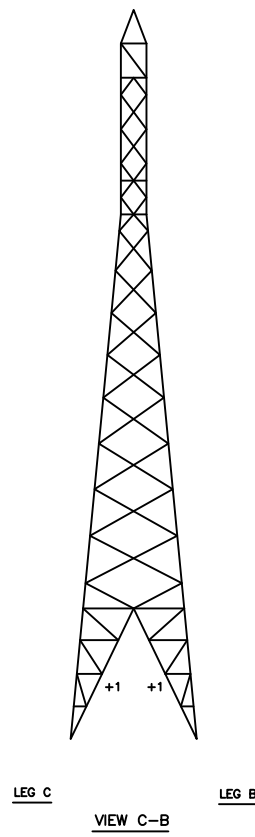
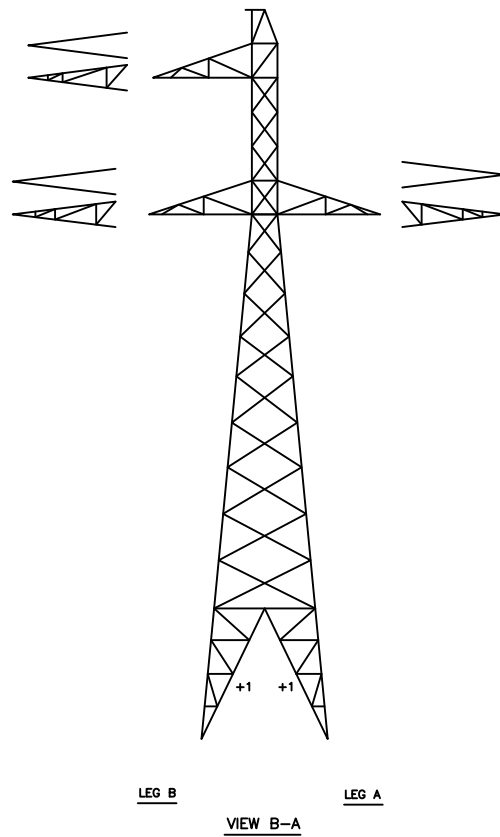
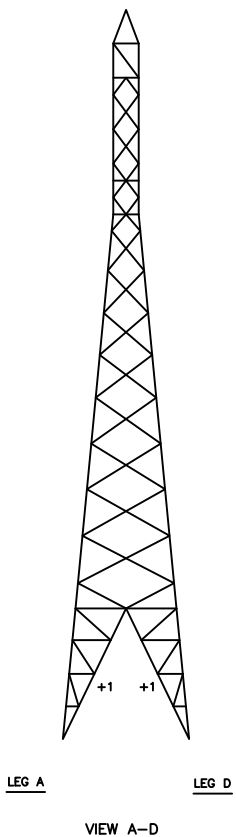
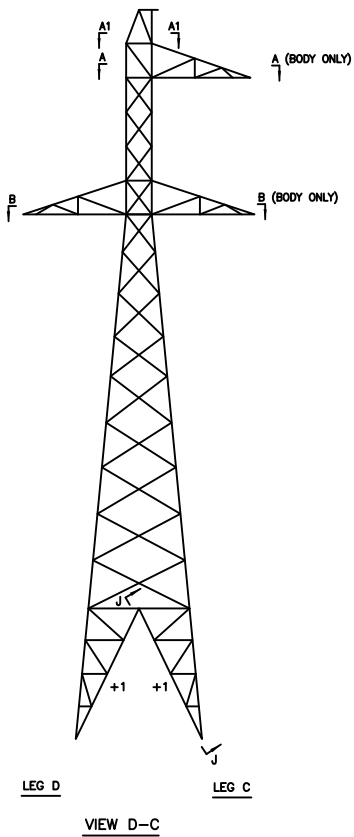
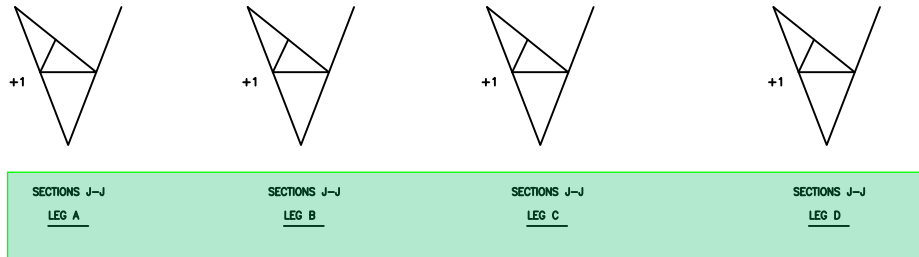
HANGER	Y
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	



Mark can you please add in the little diagonals at the end off the crossarms

ATTACHMENT DETAILS

SECTION A1-A1
SECTION A-A
SECTION B-B



TOWER TYPE USED: S2G-3

AMENDMENT										BY	CHKD	DATE	AMENDMENT										BY	CHKD	DATE	DRAWN	M.L.	2.23	LUMEN Consulting 210 Hazeldene Rd. PO Box 25052 Christchurch, New Zealand Tel +64 (03) 377 1546	ENERGY FIJI LTD		SCALE		N.T.S	
																										DESIGNED	LUMEN	2.23		VUDA – WAILOA LINE TOWER 62-1(41) OUTLINE		VUD-WAI 62-1		ISS. -1	
																										CHECKED									
																										APPROVED	-	-							
																										CAD FILE									

A1

0102030405060708090100

1:1

020406080100120140160180200

1:2

0100200300400500

1:5



Structure looking towards CD Face



Tower ID	WAI-VUD-A0042	
Contract number	H5G+3	
Final No.	61-2	
Insulator Type/ Condition	COMPOSITE	
Type	0	
Body Extn - size	0	
Legs - size	-1, +2, +2, -1	
Earth Wire	#N/A	
Tower Area m²	154	
Rust m²	17	11%
Sweep m²	132	86%

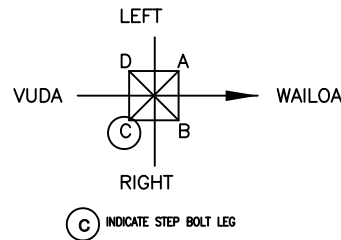
RC steel identified	No
Earth plates fitted/ Compliant	#N/A
Climbing Deterrent Fitted	YES
Padlock Type	None
Environmental Rating	Low impact on neighbouring activities, easily secured from public.
Vehicle Access	Grass hill, track or paddock prone to water. Special caution required.
Vegetation Control	Not Required
Property Usage	Dry Stock farming (sheep, beef, deer or a combination)
Foundation Connection Type	TSC
Bridge/ Culverts	YES
Cell Coverage	Strong



Comments CPI - no cpi's in Fiji CTE on all 4 legs, CTE has failed Sharp Galv dross throughout tower Minor construction damage on structure. River crossing, exercise caution when crossing, river can rise very quickly after heavy rain. Contractor is in the process of opening up the access, still very wet, and clay surfaces throughout the tracks Bird excrement throughout tower. Steep access up and down to tower, caution when driving. LSD - faded River 20m of CD face Stone crushing plant and river 400m from BC face 1 missing stepbolt C-Leg, hole misaligned	
Step Bolts:	58
Comment:	Minor SURFACE RUST
RC Bolts:	5



LANDOWNER DETAILS			INSPECTION TEAM LUMEN			Date	GPS COORDINATES (WGS84)			WAI-VUD-A			DRG. SIZE	SCALE	FOLDER	
LandOwner	Efi To Sort Out		Inspector-Tower	Karl Formo	13/05/2025	LATITUDE	17°42'42.48"S			A3	N/A	CAP20477				
TowerAccess	Sabeto Road		Inspector-Ground	Karl Formo		LONGITUDE	177°34'24.24"E			WID	0	SHEET	REVISION			
ContactName	Efi To Sort Out		Draft Report	R Glover	22/05/2025							1	2			
ContactPhone	Efi To Sort Out		Report Review	M Boardman	23/05/2025											
								Work Scope Assessment Report - May-2025				WAI-VUD-A0042				



STRUCTURE DESCRIPTION	
LINE:	WAI-VUD-A
STR No.	0042
BODY EXTN:	NIL
LEG A:	-1
LEG B:	+2
LEG C:	+2
LEG D:	-1
INSPECTED BY:	K.FORMO
COMPANY:	LUMEN
DATE:	11/05/2025

FOUNDATIONS	
GRILLAGE	Y
CONCRETE	
MASS CONC.	

NUMBER OF REPLACEMENT CRITERIA STEEL MEMBERS	
MINOR	
MAJOR(CRITICAL)	
MAJOR(OTHER)	

NUMBER OF REPLACEMENT CRITERIA BOLTS	

RC STEEL	
STEEL RATED AT CA21-30	
RC BOLTS	

HANGER	
SWIVEL	
TBT	
REPLACEMENT	
ORIGINAL	PLT

EARTHPEAK

SINGLE E/PEAK

HANGER	
SWIVEL	Y
TBT	
REPLACEMENT	
ORIGINAL	

TOP

MARK CAN YOU ADD IN THE MINOR DIAGONALS AT THE END OF THE CROSSARM

HANGER	
SWIVEL	Y
TBT	
REPLACEMENT	
ORIGINAL	

BOTTOM

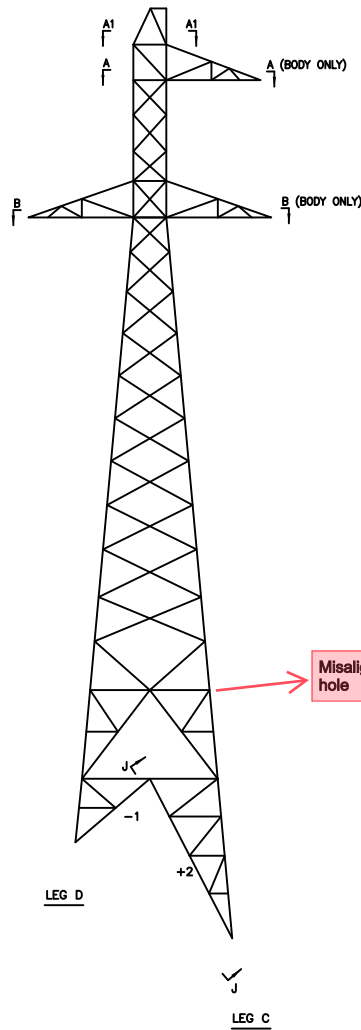
HANGER	
SWIVEL	Y
TBT	
REPLACEMENT	
ORIGINAL	

ATTACHMENT DETAILS

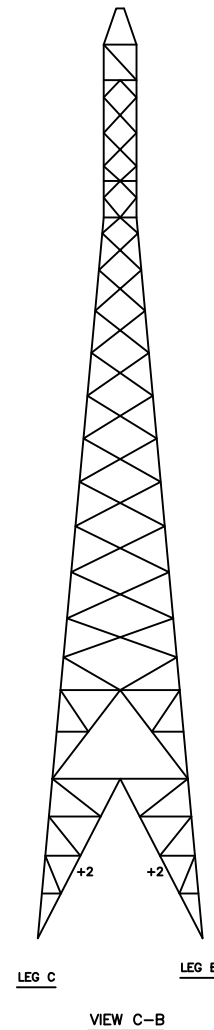
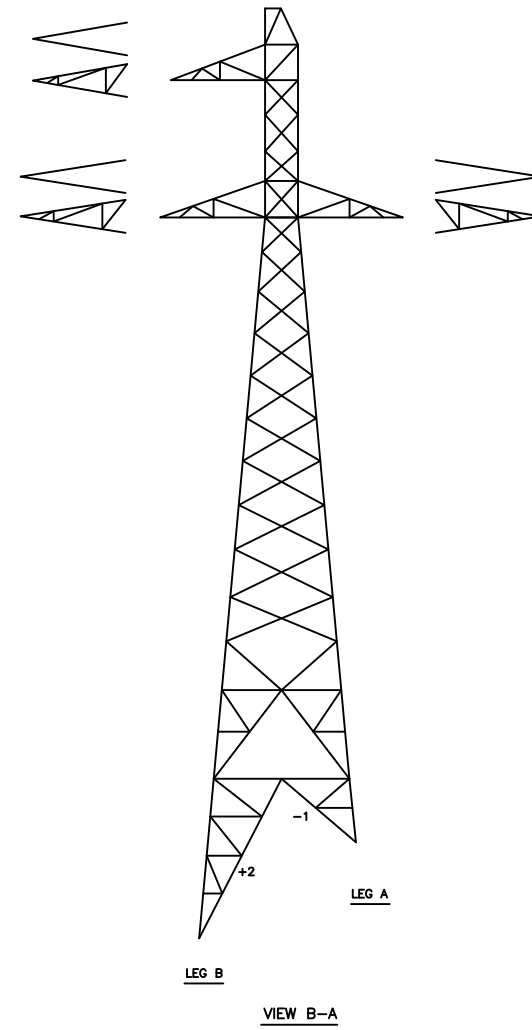
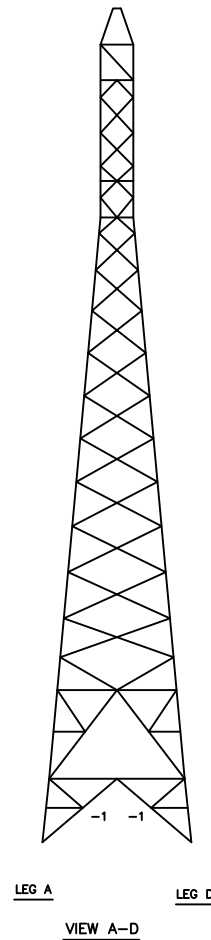


SECTIONS J-J
LEG A
SECTIONS J-J
LEG B
SECTIONS J-J
LEG C
SECTIONS J-J
LEG D

SECTION A1-A1
SECTION A-A
SECTION B-B



Misaligned stepbolt hole



TOWER TYPE USED: HSG+3

AMENDMENT

BY CHKD DATE

AMENDMENT

BY CHKD DATE

DRAWN M.L. 3.23
DESIGNED LUMEN 3.23
CHECKED
APPROVED
CAD FILE

LUMEN Consulting
210 Hazeldean Rd.
PO Box 25052
Christchurch, New Zealand
Tel +64 (0)3 377 1546

ENERGY FIJI LTD

VUDA - WAILOA LINE
TOWER 61-2(42) OUTLINE

SCALE N.T.S

VUD-WAI 61-2
ISS. -1

Work Scope Assessment Summary General Information

Project Name: WAI-VUD-A
Project Code MR07-2024
Work ID: 0

EARTHPLATES EARTHPLATE ANTICLIMB

PADLOCKTYPE AERIALIDSIGN

ENVIRONMENTRATING/VEHICLEACCESS/VEGETATION

PROPERTYUSAGE

CULVERT

COVERAGE

Device Position Description	RC steel identified	Earth plates Fitted	Earth Plates Compliant	Climbing Deterrent Fitted	Padlock Type	Aerial ID Fitted	LSD fitted	CPI fitted	Environmental Rating	Vehicle Access	Vegetation Control	Property Usage	Foundation Type	Bridge/ Culverts	Insulator type	Corrosion Zone	Cellular Coverage
WAI-VUD-A0011	Yes	NO	0	YES	None	NO	Yes	n/a	1	4	Not Required	S	TSC	YES	COMPOSITE	C4	Unknown
WAI-VUD-A0012	No	NO	0	YES	None	NO	Yes	n/a	1	4	Required Minor	S	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0014a	No	NO	0	YES	None	YES	Yes	n/a	2	3	Not Required	S	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0015	No	NO	0	YES	None	NO	Yes	n/a	2	3	Required Minor	S	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0016	No	NO	0	YES	None	NO	Yes	n/a	3	4	Not Required	S	SAC	YES	COMPOSITE & PORCELAIN	C4	Strong
WAI-VUD-A0018	No	NO	0	YES	None	NO	Yes	n/a	2	4	Required Minor	S	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0022	Yes	NO	0	YES	None	NO	Yes	n/a	2	4	Required Major	S	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0030	No	NO	0	YES	None	NO	Yes	n/a	3	4	Required Major	C	SAC	YES	PORCELAIN	C4	Marginal
WAI-VUD-A0033	No	no	0	YES	None	NO	Yes	n/a	3	4	Required Major	C	SAC	YES	PORCELAIN	C4	Marginal
WAI-VUD-A0046	No	NO	0	YES	None	NO	Yes	n/a	1	2	Not Required	C	TSC	YES	COMPOSITE	C4	Unknown
WAI-VUD-A0047	No	NO	0	YES	None	NO	Yes	n/a	1	4	Not Required	C	TSC	YES	COMPOSITE	C4	Strong
WAI-VUD-A0013	No	NO	0	YES	None	NO	Yes	n/a	1	4	Required Major	S	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0031	No	NO	0	YES	None	NO	Yes	n/a	1	4	Not Required	C	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0032	No	NO	0	YES	None	NO	Yes	n/a	1	4	Required Major	C	TSC	YES	COMPOSITE	C4	Strong
WAI-VUD-A0017	No	NO	0	YES	None	NO	Yes	n/a	2	4	Required Minor	S	TSC	YES	COMPOSITE	C4	Marginal
WAI-VUD-A0048	No	NO	#N/A	YES	None	NO	Yes	n/a	2	4	Required Minor	S	TSC	YES	COMPOSITE	C4	Marginal
WAI-VUD-A0008	No	NO	#N/A	YES	None	NO	Yes	n/a	2	4	Required Minor	S	TSC	YES	COMPOSITE	C4	Marginal
WAI-VUD-A0020	Yes	NO	#N/A	YES	None	NO	Yes	n/a	2	4	Required Minor	S	TSC	YES	COMPOSITE	C4	Marginal
WAI-VUD-A0019	No	NO	#N/A	YES	None	NO	Yes	n/a	2	4	Required Minor	S	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0039	Yes	NO	#N/A	YES	None	YES	Yes	n/a	1	3	Not Required	S	TSC	YES	COMPOSITE	C4	Strong
WAI-VUD-A0024	No	NO	#N/A	YES	None	NO	Yes	n/a	1	4	Required Minor	C	TSC	YES	COMPOSITE	C4	Strong
WAI-VUD-A0043	No	NO	#N/A	YES	None	NO	Yes	n/a	1	4	Required Major	C	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0044	No	NO	#N/A	YES	None	YES	Yes	n/a	1	2	Required Minor	C	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0045	No	NO	#N/A	YES	None	NO	Yes	n/a	1	2	Required Minor	C	TSC	YES	COMPOSITE	C4	Average
WAI-VUD-A0041	No	NO	#N/A	YES	None	NO	No	n/a	1	3	Not Required	S	TSC	YES	COMPOSITE	C4	Strong
WAI-vud-a0042	No	NO	#N/A	YES	None	NO	No	n/a	1	3	Not Required	S	TSC	YES	COMPOSITE	C4	Strong
WAI-vud-a0040	No	NO	#N/A	YES	None	NO	No	n/a	1	3	Not Required	S	TSC	YES	COMPOSITE	C4	Strong
WAI-vud-a0037	No	NO	#N/A	YES	None	NO	No	n/a	1	3	Not Required	S	TSC	YES	COMPOSITE	C4	Strong
WAI-vud-a0038	No	NO	#N/A	YES	None	NO	No	n/a	1	3	Not Required	S	TSC	YES	COMPOSITE	C4	Strong
	No	#N/A	#N/A														
	No	#N/A	#N/A														

Environmental Rating	
1	Low impact on neighbouring activities, easily secured from public.
2	Low impact on neighbouring activities, low level protection from public.
3	Medium impact on neighbouring activities requires protection from public.
4	High impact on adjacent properties or activities, traffic and public exposure.
5	High impact on adjacent properties or activities, adjacent waterways – resource management issues.

Vehicle Access	
1	Flat, dry paddock or sealed/ metalled track or road
2	Grass paddock or hill. Some caution needed in wet weather.
3	Grass hill, track or paddock prone to water. Special caution required.
4	No vehicle access directly to towers and/ or requires maintenance prior to vehicle access.
5	Behind or close to house. Specific issues.

Property Usage	
R	Residential
C	Commercial
L	Life Style
D	Dairy Farm
F	Dry stock farming (sheep, beef, deer or a combination)
CR	Cropping
P	Park, Reserve, School or Public Land

Work Scope Assessment Summary Tower Information

Project Name: WAI-VUD-A
Project Code MR07-2024
Work ID: 0

Device Position	Contract	Number	Type	Extn - Size	Leg A	Leg B	Leg C	Leg D	Tower total	MAD total	Tower total	Tower total	Tower total	Tower Section	Tower Section	Tower Section	Secondary Prep Areas	Secondary Prep Areas	Secondary Prep Areas	Secondary Prep Areas	Secondary Prep Areas	Secondary Prep Areas
Description	Number	Number	Type	Size					Area m²	Area m²	Full Blast	sweep blast	spot blast	Areas m²_Crossarms S1	Areas m²_Upper Body S2	Areas m²_Lower Body S3	m²_Full Blast_Crossarms S1	m²_Sweep Blast_Crossarms S1	m²_Full Blast_Upper Body S2	m²_Sweep Blast_Upper Body S2	m²_Full Blast_Lower Body S3	m²_Sweep Blast_Lower Body S3
WAI-VUD-A0011	HSG+6	73-2	SUS	0	+/-0	-1	+/-0	+1	141		11	123	134	18	18	105	1	12	2		16	96
WAI-VUD-A0012	HSG-3	73-1	SUS	0	+/-0	+/-0	+1	+1	117		11	100	111	18	18	81	3	10	2		16	74
WAI-VUD-A0014a	S2G+/-0	72-1	SUS	0	+1	+1	+1	+1	135		2	118	120	18	18	99	1	12	1		17	89
WAI-VUD-A0015	S2G+9	71-3	SUS	0	+/-0	+1	+1	+/-0	200		3	167	170	18	18	164	1	12	1		16	139
WAI-VUD-A0016	STG-3	71-1	STR	0	+/-0	+1	+/-0	+/-0	123		7	107	114	17	24	82	2	11	1		23	74
WAI-VUD-A0018	HSG+/-0	70-2	SUS	0	-1	+1	+1	+/-0	127		6	109	115	18	18	91	1	12	1		16	81
WAI-VUD-A0022	HSG+6	68-2	SUS	0	+/-0	+/-0	+1	+2	147		5	120	125	18	18	111	1	12	1		14	94
WAI-VUD-A0030	STG+/-0	66-1	STR	0	+1	-1	+/-0	+1	162		5	125	130	17	24	121	1	11	1		19	95
WAI-VUD-A0033	DG+/-0	65-1	STR	0	+/-0	+1	+/-0	+/-0	223		20	167	187	43	51	129	5	29	4		40	99
WAI-VUD-A0046	HSG-3	60-1	SUS	0	+1	+/-0	+1	+/-0	117		7	103	110	18	18	81	1	12	1		16	75
WAI-VUD-A0047	S2G-3	59-2	SUS	0	+1	+/-0	+/-0	+1	107		6	95	101	18	18	71	1	12	1		17	67
WAI-VUD-A0013	HSG+9	72-3	SUS	0	+1	+1	+/-0	+/-0	148		20	123	142	18	18	112	2	11	4		14	98
WAI-VUD-A0031	S30G+3	65-3	STR	0	+/-0	+2	+2	+/-0	164		18	144	162	12	23	129	2	8	5		19	118
WAI-VUD-A0032	DG+/-0	65-2	0	0	+2	+3	+/-0	-2	218		27	182	209	43	52	124	7	28	6		45	108
WAI-VUD-A0017	S2G+/-0	70-3	0	0	+/-0	+1	+1	+/-0	127		4	104	108	18	18	91	1	12	1		16	76
WAI-VUD-A0048	DG+3	59-1	0	0	+3	+/-0		-1+4	277		8	247	255	43	52	182	2	31	3		48	168
WAI-VUD-A0008	S30G+6	75-1	0	0	+/-0	+/-0	+/-0	+/-0	176		7	156	163	8	23	145	1	5	2		21	130
WAI-VUD-A0020	HSG-3	69-2	0	0	+/-0	+1	+1	+/-0	117		5	100	105	18	18	81	2	11	1		16	72
WAI-VUD-A0019	S2G+/-0	70-1	0	0	+/-0	+1	+1	+/-0	127		4	105	109	18	18	91	0	12	1		16	77
WAI-VUD-A0039	S2G+3	62-3	0	0	+/-0	+1	+1	+/-0	158		10	139	150	18	18	122	2	11	2		15	113
WAI-VUD-A0024	HSG+9	67-4	0	0	+1	+1	+/-0	+/-0	148		9	130	139	18	18	112	2	11	2		16	104
WAI-VUD-A0043	S30G-3	61-1	0	0	+1	-1	+/-0	+1	101		7	73	80	12	23	65	1	8	2		20	45
WAI-VUD-A0044	S2G+/-0	60-3	0	0	+1	+/-0	+/-0	+1	127		9	93	101	18	18	91	1	12	2		15	66
WAI-VUD-A0045	S2G+6	60-2	0	0	+1	-1	+/-0	+2	122		11	89	101	18	18	86	2	11	2		15	63
WAI-VUD-A0041	S2G-3	62-1	0	0	+1	+1	+1	+1	111		11	94	105	18	18	75	2	11	3		15	7
WAI-VUD-A0042	HSG+3	61-2	0	0	-1	+2	+2	-1	154		17	132	148	18	18	118	2	11	2		16	105
WAI-vud-a0040	S2G+3	62-2	0	0	+1	+1	+1	+/-0	162		14	142	157	18	18	126	3	10	2		16	110
WAI-vud-a0037	HSG+3	63-2	0	0	+/-0	+1	+1	+1	156		13	143	157	18	18	120	2	11	2		16	116
WAI-vud-a0038	S2G+6	63-1	0	0	+/-0	+1	+1	+/-0	120		12	94	106	18	18	84	2	11	2		16	67
											0	0	0									
											0	0	0									
											0	0	0									
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											0	0	0									
									4,311	0	290	3,624	3,914	581	641	3,088	53	367	56	566	181	2,691