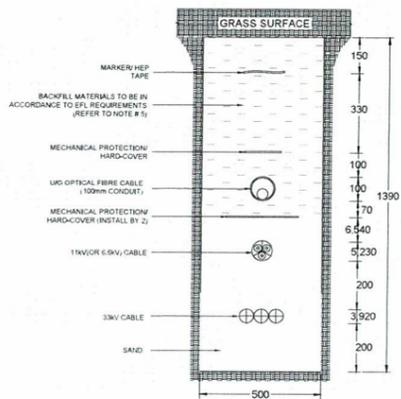


**LEGEND**

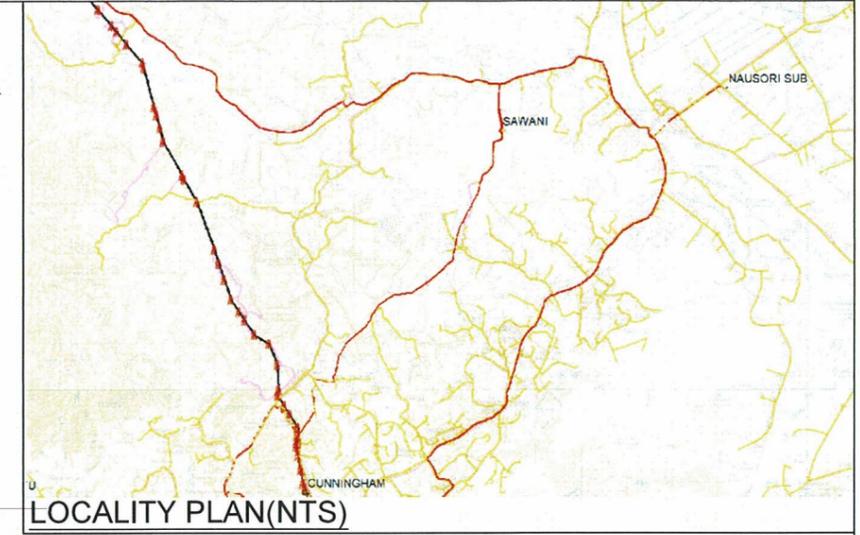
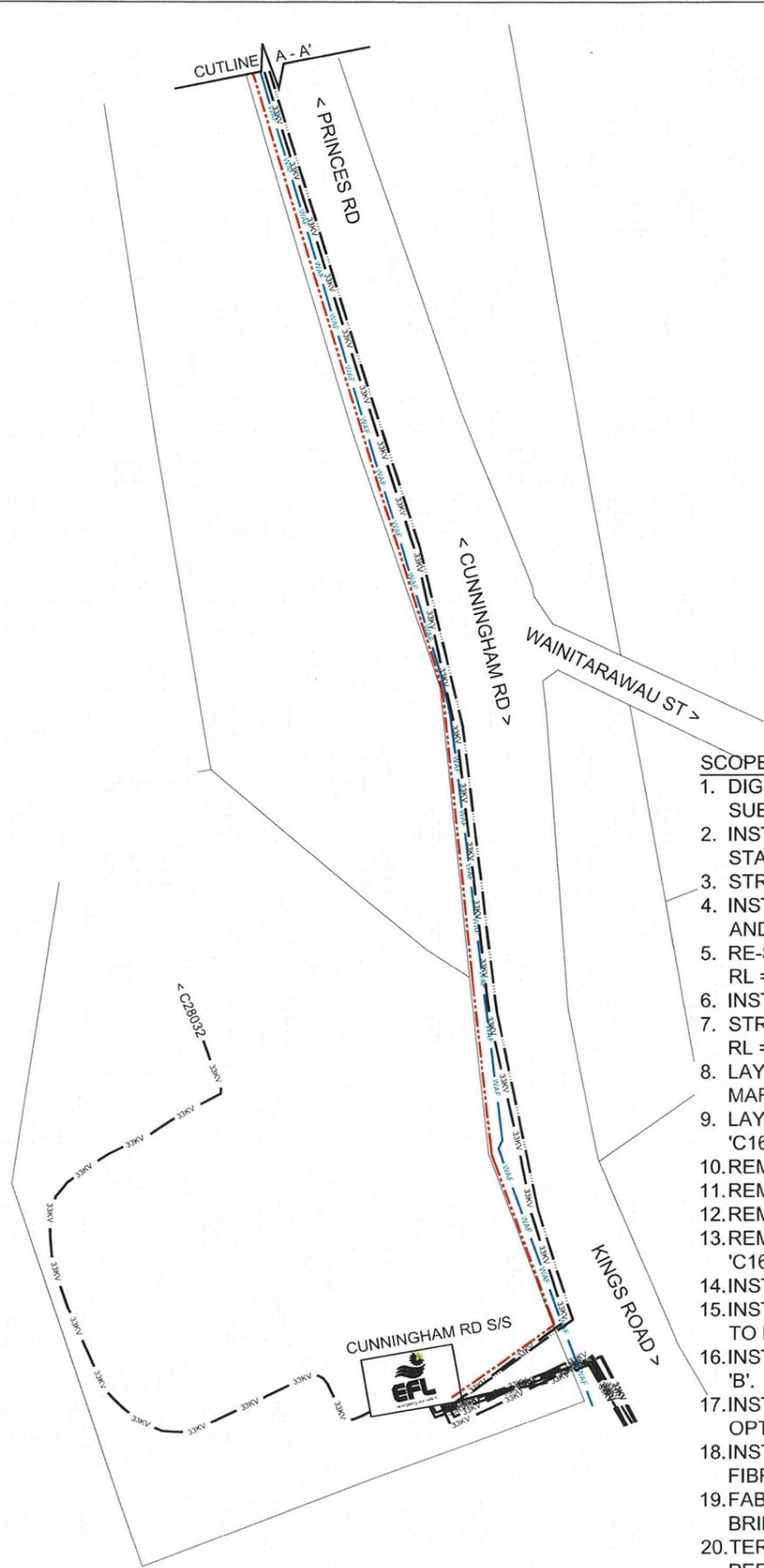
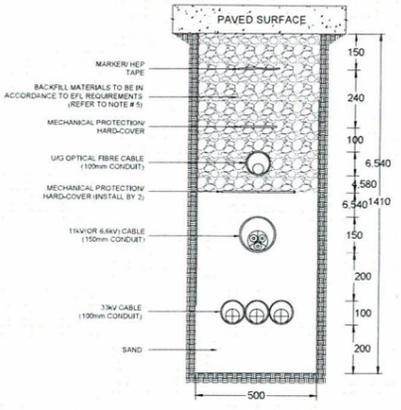
-  FIBRE OPTIC PIT (AT 150m & AT EACH BEND)
-  CONCRETE CABLE PIT (1.5m x 1.5m)
-  FIBRE OPTIC U/G CABLE
-  EXISTING 33kV U/G CABLE
-  PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
-  EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)

**TRENCH DETAIL**

33kV + 11kV + FIBRE TRENCH



33kV + 11kV + FIBRE TRENCH



**SCOPE OF WORK:**

1. DIG & LAY 3 x 630mm<sup>2</sup> 33kV 1C AL XLPE HDPE UNDERGROUND CABLE FROM CUNNINGHAM RD SUBSTATION TO SAWANI SUBSTATION VIA CUNNINGHAM RD THEN PRINCES RD. RL = 15.45km
2. INSTALL 1 x 10.2m RC POLE MARKED AS '1' (NEAR WAF RESERVOIR SITE) C/W DRESSING AND STAY.
3. STRING 7/3.75 AAAC HV HELIUM CONDUCTOR FROM POLE C10539 TO POLE 1. RL = 37m
4. INSTALL 1 x 15.5m WOODEN POLE MARKED AS '2' (NEAR FOREST RESERVE) C/W DRESSING AND STAY.
5. RE-STRING EXIST. HV & LV CONDUCTOR FROM POLE C10556 TO POLE C10557 VIA POLE 2. RL = 58m
6. INSTALL 1 x 11.0m RC POLE MARKED AS '3' C/W DRESSING AND STAY.
7. STRING 7/3.75 AAAC HV HELIUM CONDUCTOR FROM POLE C16325 TO POLE C16318 VIA POLE 3. RL = 81m
8. LAY 240mm<sup>2</sup> 11kV AL XLPE HDPE UNDERGROUND CABLE FROM POLE MARKED '1' TO POLE MARKED '2'. RL = 880m
9. LAY 240mm<sup>2</sup> 11kV AL XLPE HDPE UNDERGROUND CABLE FROM POLE MARKED '3' TO POLE 'C16308'. RL = 620m
10. REMOVE POWER POLES 'C10540', 'C10541', 'C10542', 'C10543', 'C10544', 'C10545' AND 'C10546'.
11. REMOVE HV CONDUCTOR BETWEEN POWER POLES 'C10547' & 'C10548'.
12. REMOVE ISOLATOR I48 FROM POLE C10548 AND ADD LINE DROPOUT ON C10555.
13. REMOVE HV CONDUCTORS ONLY FROM POWER POLES 'C16317', 'C16316', 'C16315', 'C16313', 'C16311' AND 'C16309'.
14. INSTALL 150mm DIA HD-PVC ORANGE CONDUITS FOR ALL ROAD AND DRIVEWAY CROSSINGS.
15. INSTALL 33kV CABLES IN 150mm DIA HD - PVC ORANGE CONDUITS FROM LOCATION MARKED 'A' TO LOCATION MARKED 'B' NEAR OLD SLIPPAGE. RL = 300m
16. INSTALL 5 x CONCRETE CABLE PITS BETWEEN LOCATION MARKED 'A' AND LOCATION MARKED 'B'.
17. INSTALL 100mm DIA HD- PVC GREEN CONDUITS (WITHDRAW WIRES) FOR PULLING OF FIBRE OPTIC CABLE FROM CUNNINGHAM RD SUBSTATION TO SAWANI SUBSTATION. RL = 15.45km
18. INSTALL FIBRE OPTIC PIT EVERY 150m AND AT END BEND ALONG THE PROPOSED ROUTE OF FIBRE OPTIC CABLE.
19. FABRICATE AND INSTALL 'L- SHAPED' BRACKETS FOR CABLE CROSSING AT VUNINUIDROVU BRIDGE (SUBJECT TO FRA APPROVAL)
20. TERMINATE 33kV UNDERGROUND CABLE IN CUNNINGHAM RD AND SAWANI SUBSTATION AS PER 33kV SINGLE LINE DIAGRAM.

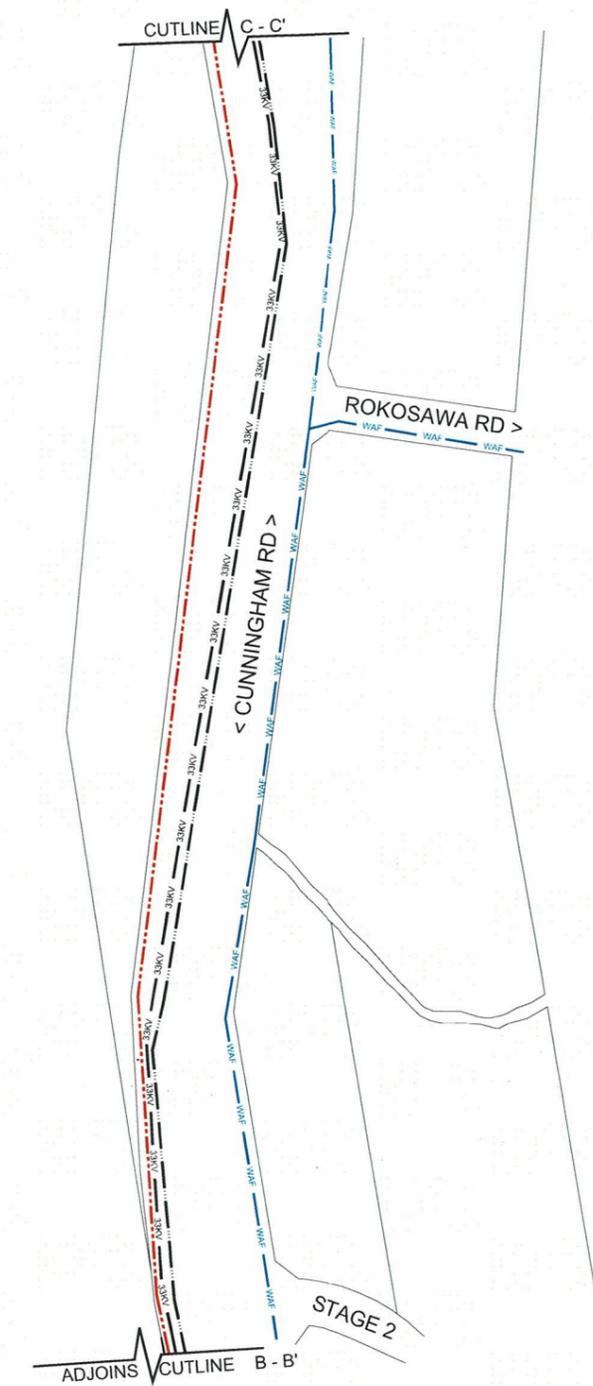
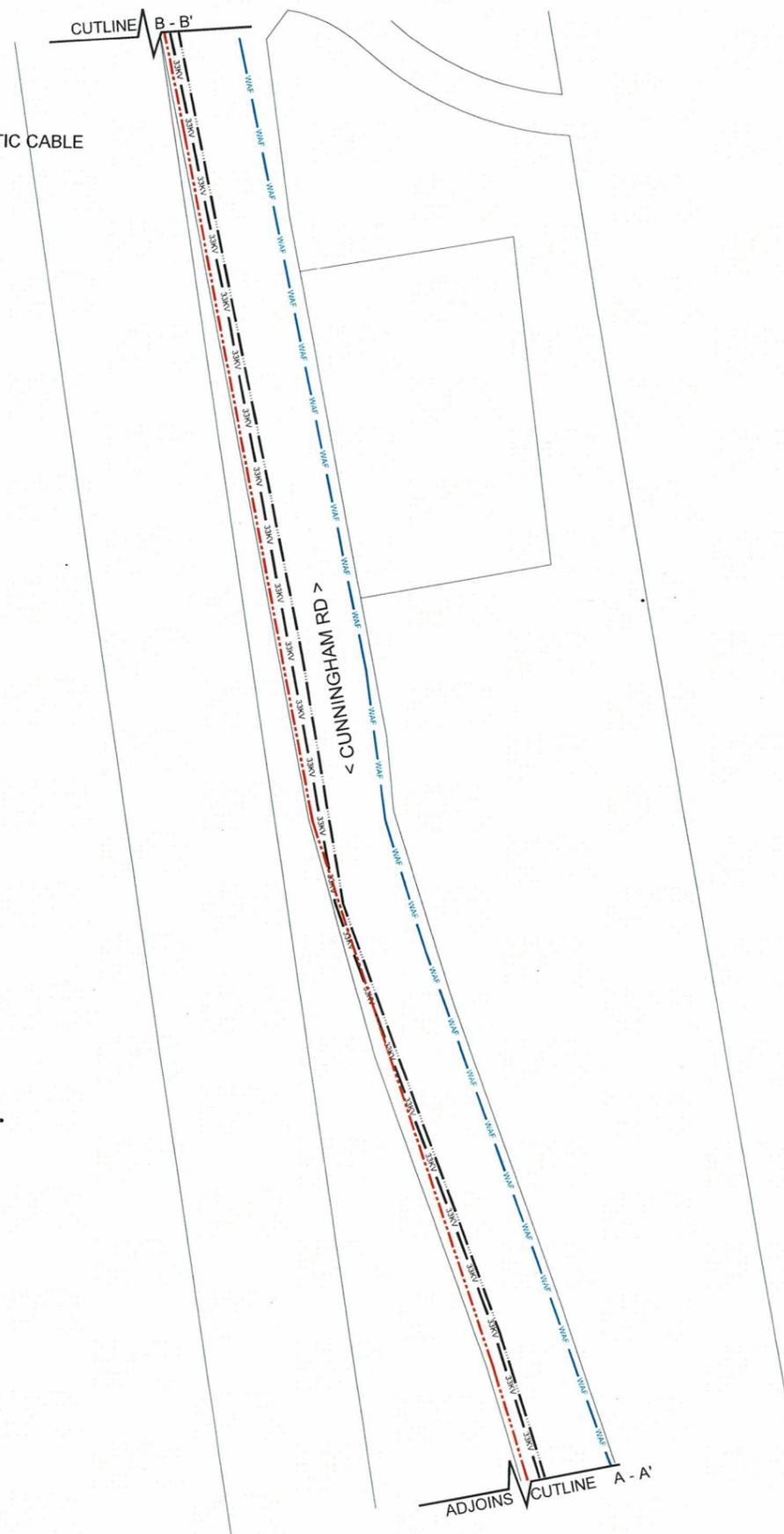
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	ENGINEER	<i>[Signature]</i>	16.2.26
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<b>ENERGY FIJI LIMITED</b>		SHEET 1 OF 17	
INSTALLATION OF NEW 33kV SUB-TRANSMISSION LINE BETWEEN CUNNINGHAM RD AND SAWANI SUBSTATION (CIRCUIT B) (SR25.25)		DRAWING NUMBER	
		A3	03
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		SCALE 1 : 2000	

**LEGEND**

- FIBRE OPTIC U/G CABLE
- EXISTING 33kV U/G CABLE
- PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



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**ENERGY FIJI LIMITED**

INSTALLATION OF NEW 33kV SUB-TRANSMISSION  
LINE BETWEEN CUNNINGHAM RD AND  
SAWANI SUBSTATION (CIRCUIT B) (SR25.25)

DRAWING NUMBER			
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**LEGEND**

- FIBRE OPTIC U/G CABLE
- 33KV EXISTING 33KV U/G CABLE
- - - PROPOSED 33KV U/G CABLE + FIBRE OPTIC CABLE
- WAF EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



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<b>ENERGY FIJI LIMITED</b>				SHEET 3 OF 17
INSTALLATION OF NEW 33KV SUB-TRANSMISSION LINE BETWEEN CUNNINGHAM RD AND SAWANI SUBSTATION (CIRCUIT B) (SR25.25)			DRAWING NUMBER	
A3	03	N78	001	
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**LEGEND**

- - - PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



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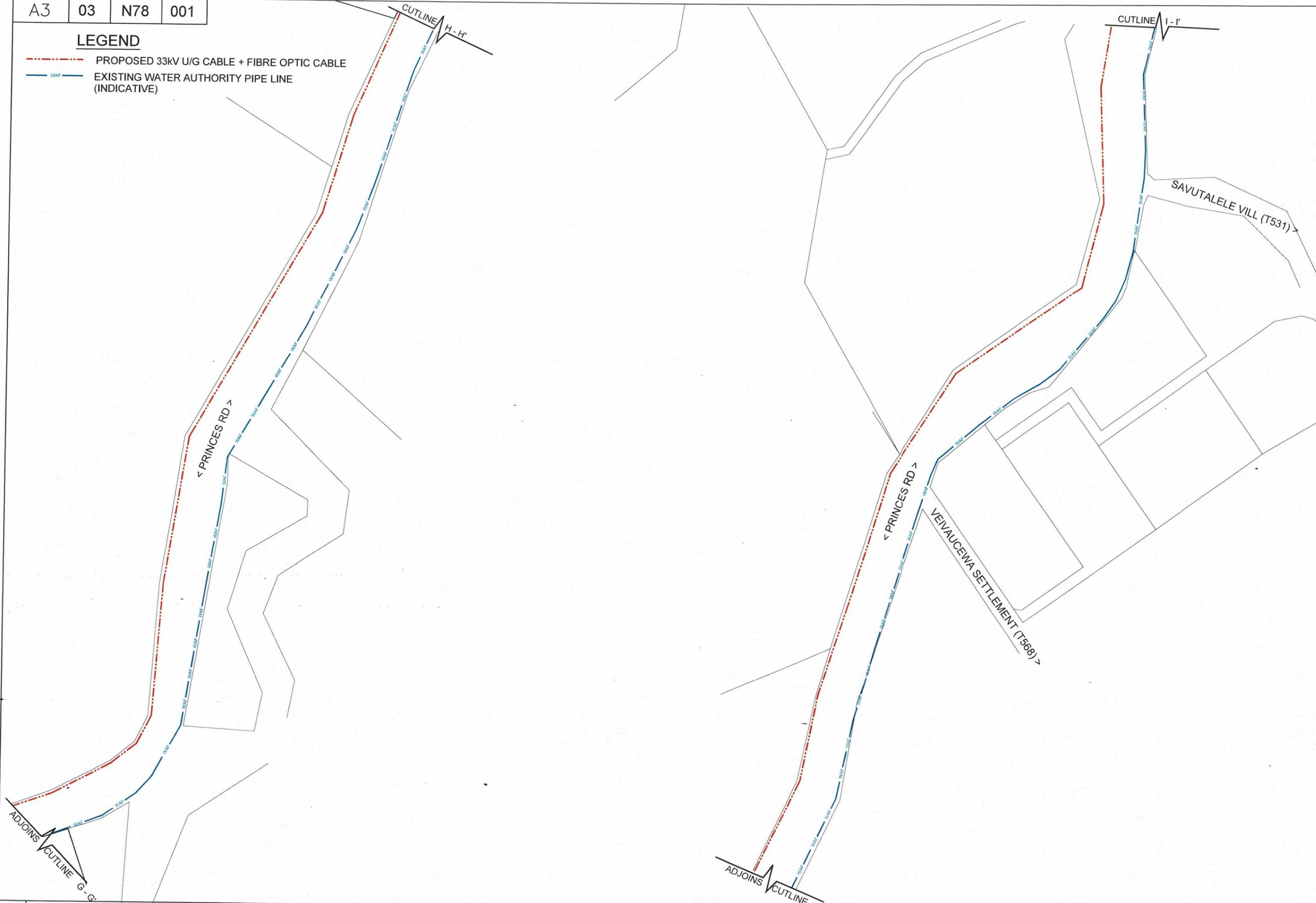


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<b>ENERGY FIJI LIMITED</b>		SHEET 4 OF 17
INSTALLATION OF NEW 33kV SUB-TRANSMISSION LINE BETWEEN CUNNINGHAM RD AND SAWANI SUBSTATION (CIRCUIT B) (SR25.25)		DRAWING NUMBER
		A3 03 N78 001
		SCALE 1 : 2000

**LEGEND**

- - - PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



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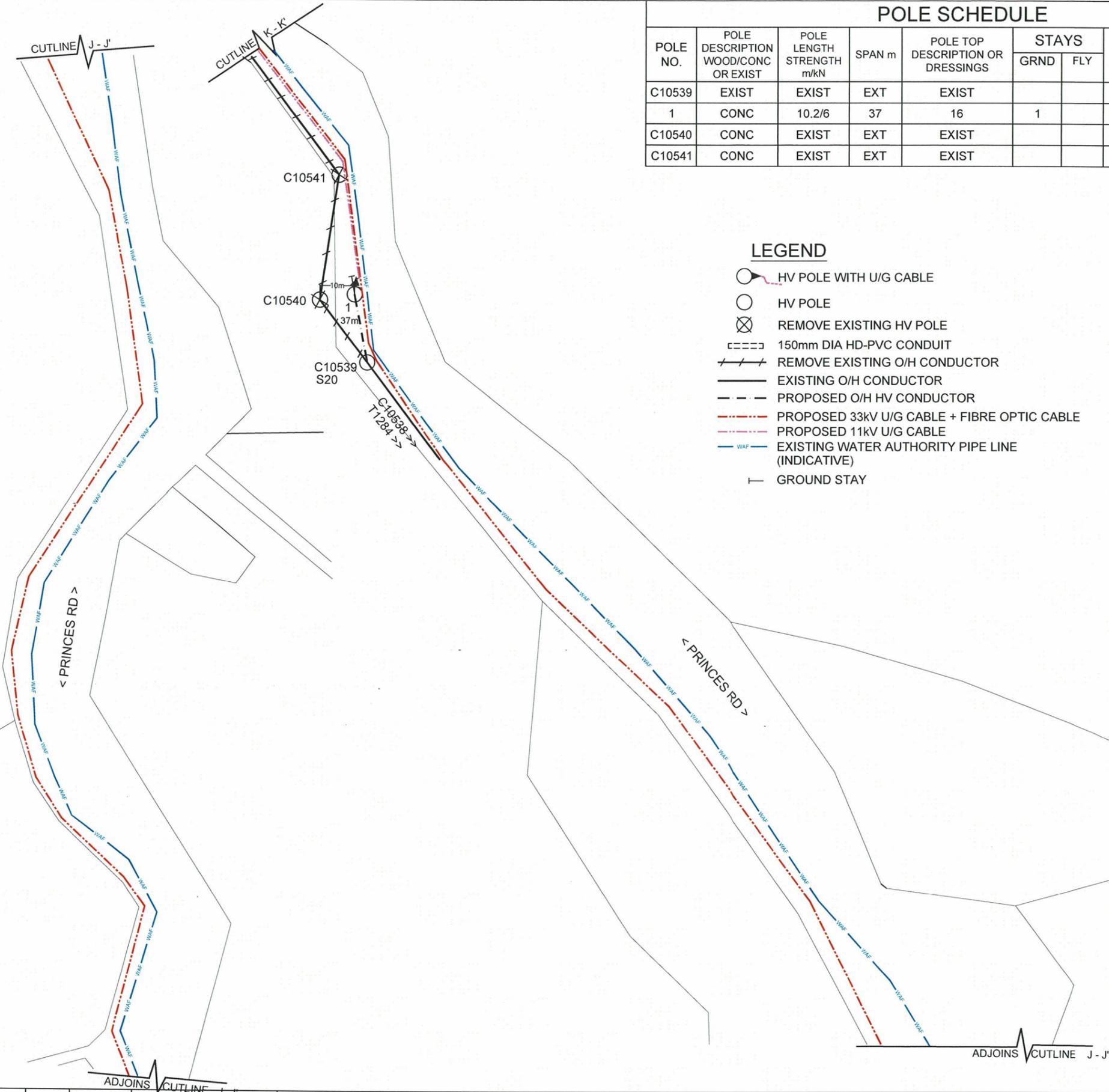
<b>ENERGY FIJI LIMITED</b>				SHEET 5 OF 17
INSTALLATION OF NEW 33kV SUB-TRANSMISSION LINE BETWEEN CUNNINGHAM RD AND SAWANI SUBSTATION (CIRCUIT B) (SR25.25)				DRAWING NUMBER
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				SCALE 1 : 2000

POLE SCHEDULE

POLE NO.	POLE DESCRIPTION WOOD/CONC OR EXIST	POLE LENGTH STRENGTH m/kN	SPAN m	POLE TOP DESCRIPTION OR DRESSINGS	STAYS		REMARKS
					GRND	FLY	
C10539	EXIST	EXIST	EXT	EXIST			EXIST HV POLE
1	CONC	10.2/6	37	16	1		HV U/G TERMINATION POLE
C10540	CONC	EXIST	EXT	EXIST			POLE TO BE REMOVED
C10541	CONC	EXIST	EXT	EXIST			" " "

LEGEND

- HV POLE WITH U/G CABLE
- HV POLE
- REMOVE EXISTING HV POLE
- 150mm DIA HD-PVC CONDUIT
- REMOVE EXISTING O/H CONDUCTOR
- EXISTING O/H CONDUCTOR
- PROPOSED O/H HV CONDUCTOR
- PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- PROPOSED 11kV U/G CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)
- GROUND STAY



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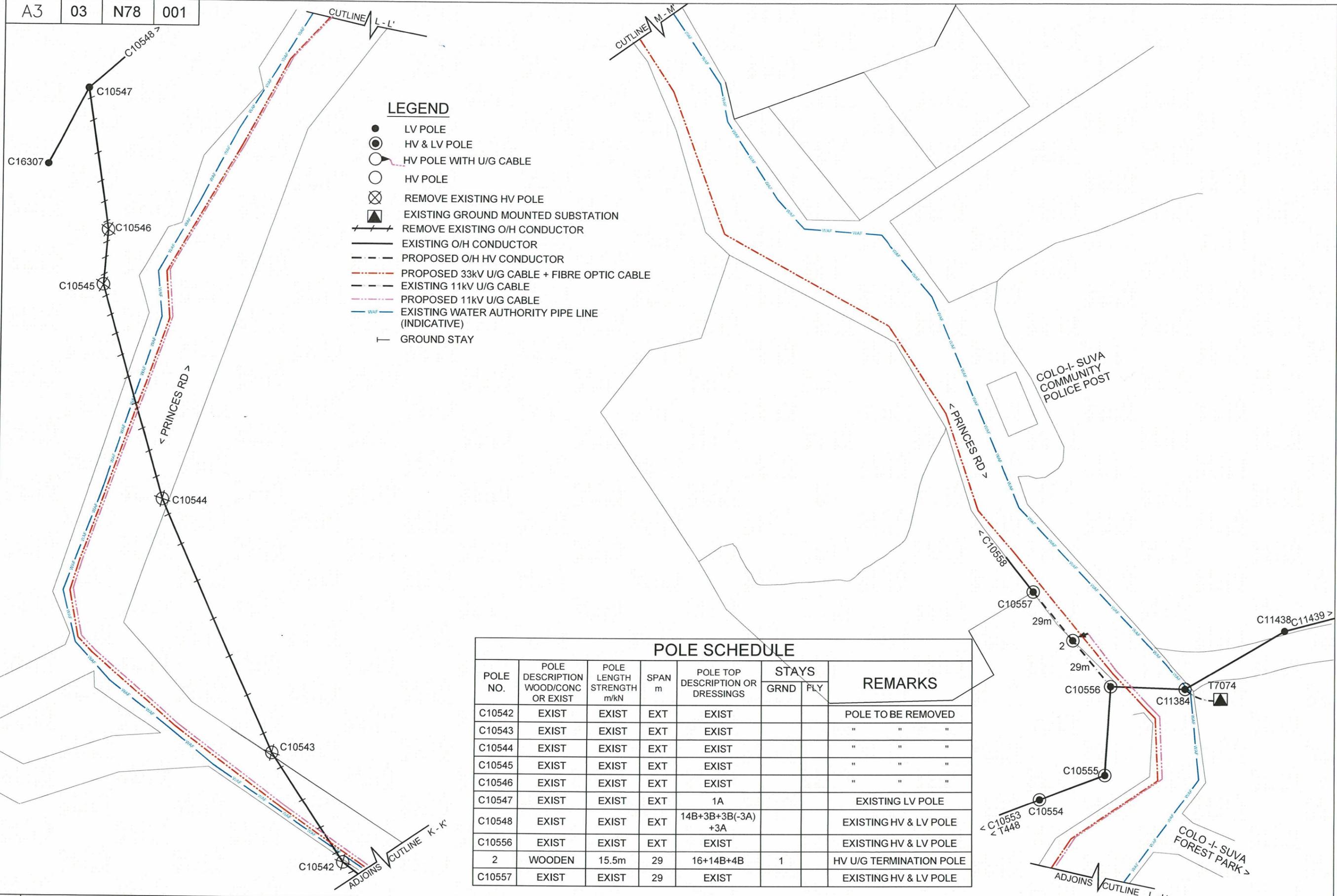


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ENGINEER	<i>[Signature]</i>	12/2/26
HEAD OF DEPARTMENT	<i>[Signature]</i>	16.2.26

ENERGY FIJI LIMITED

INSTALLATION OF NEW 33kV SUB-TRANSMISSION LINE BETWEEN CUNNINGHAM RD AND SAWANI SUBSTATION (CIRCUIT B) (SR25.25)

DRAWING NUMBER			
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**LEGEND**

- LV POLE
- ⊙ HV & LV POLE
- HV POLE WITH U/G CABLE
- HV POLE
- ⊗ REMOVE EXISTING HV POLE
- ▲ EXISTING GROUND MOUNTED SUBSTATION
- REMOVE EXISTING O/H CONDUCTOR
- EXISTING O/H CONDUCTOR
- - - PROPOSED O/H HV CONDUCTOR
- - - PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- - - EXISTING 11kV U/G CABLE
- - - PROPOSED 11kV U/G CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)
- GROUND STAY

POLE SCHEDULE							
POLE NO.	POLE DESCRIPTION WOOD/CONC OR EXIST	POLE LENGTH m/kN	SPAN m	POLE TOP DESCRIPTION OR DRESSINGS	STAYS		REMARKS
					GRND	FLY	
C10542	EXIST	EXIST	EXT	EXIST			POLE TO BE REMOVED
C10543	EXIST	EXIST	EXT	EXIST			" " "
C10544	EXIST	EXIST	EXT	EXIST			" " "
C10545	EXIST	EXIST	EXT	EXIST			" " "
C10546	EXIST	EXIST	EXT	EXIST			" " "
C10547	EXIST	EXIST	EXT	1A			EXISTING LV POLE
C10548	EXIST	EXIST	EXT	14B+3B+3B(-3A)+3A			EXISTING HV & LV POLE
C10556	EXIST	EXIST	EXT	EXIST			EXISTING HV & LV POLE
2	WOODEN	15.5m	29	16+14B+4B	1		HV U/G TERMINATION POLE
C10557	EXIST	EXIST	29	EXIST			EXISTING HV & LV POLE

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**ENERGY FIJI LIMITED**

**INSTALLATION OF NEW 33kV SUB-TRANSMISSION LINE BETWEEN CUNNINGHAM RD AND SAWANI SUBSTATION (CIRCUIT B) (SR25.25)**

DRAWING NUMBER  
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**LEGEND**

- - - PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- - - EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



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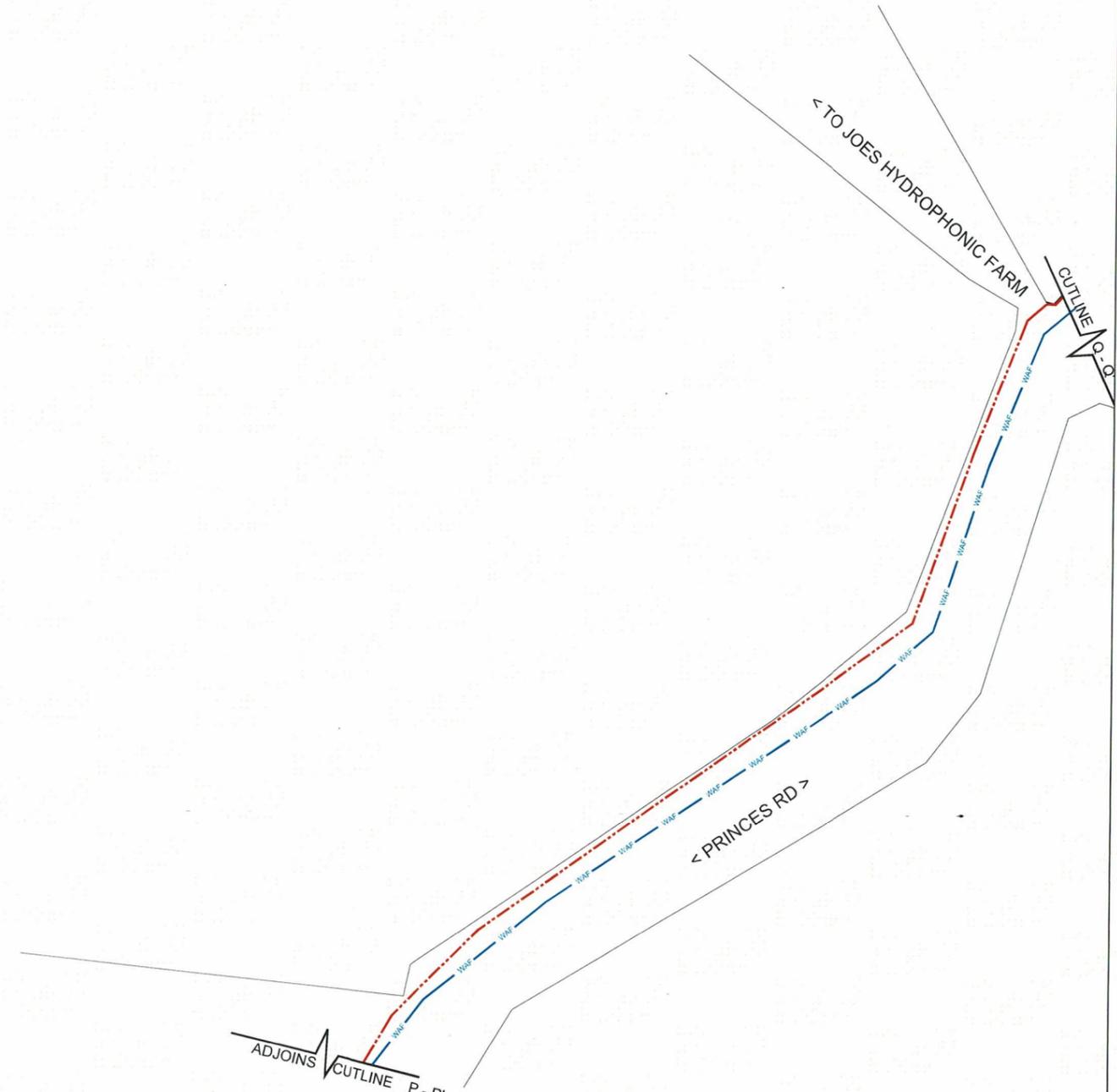
**ENERGY FIJI LIMITED**

INSTALLATION OF NEW 33kV SUB-TRANSMISSION  
LINE BETWEEN CUNNINGHAM RD AND  
SAWANI SUBSTATION (CIRCUIT B) (SR25.25)

DRAWING NUMBER			
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**LEGEND**

- - - PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- - - EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



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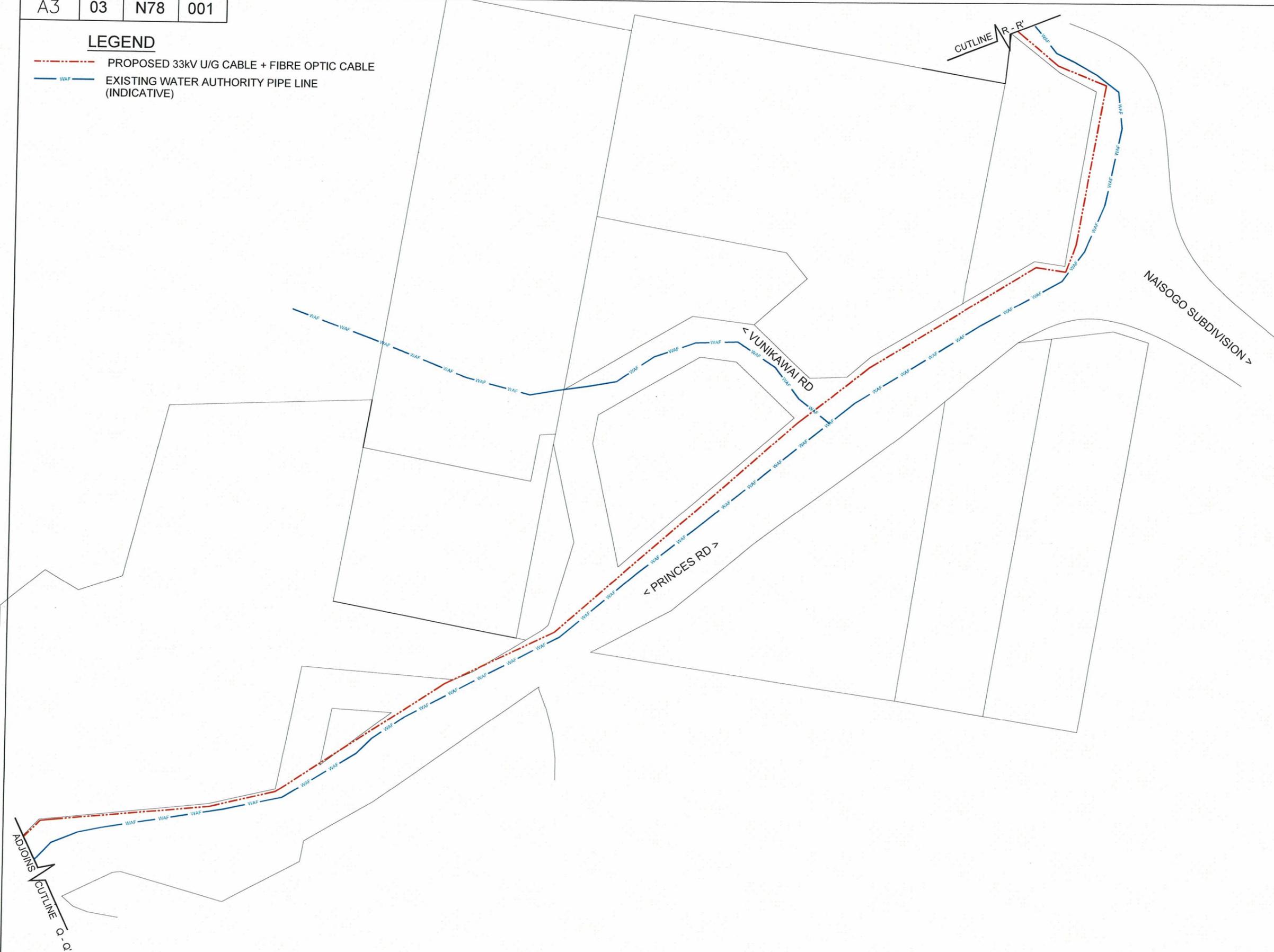


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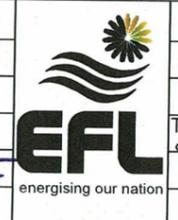
<b>ENERGY FIJI LIMITED</b>		SHEET 9 OF 17	
INSTALLATION OF NEW 33kV SUB-TRANSMISSION LINE BETWEEN CUNNINGHAM RD AND SAWANI SUBSTATION (CIRCUIT B) (SR25.25)		DRAWING NUMBER	
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**LEGEND**

- - - PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



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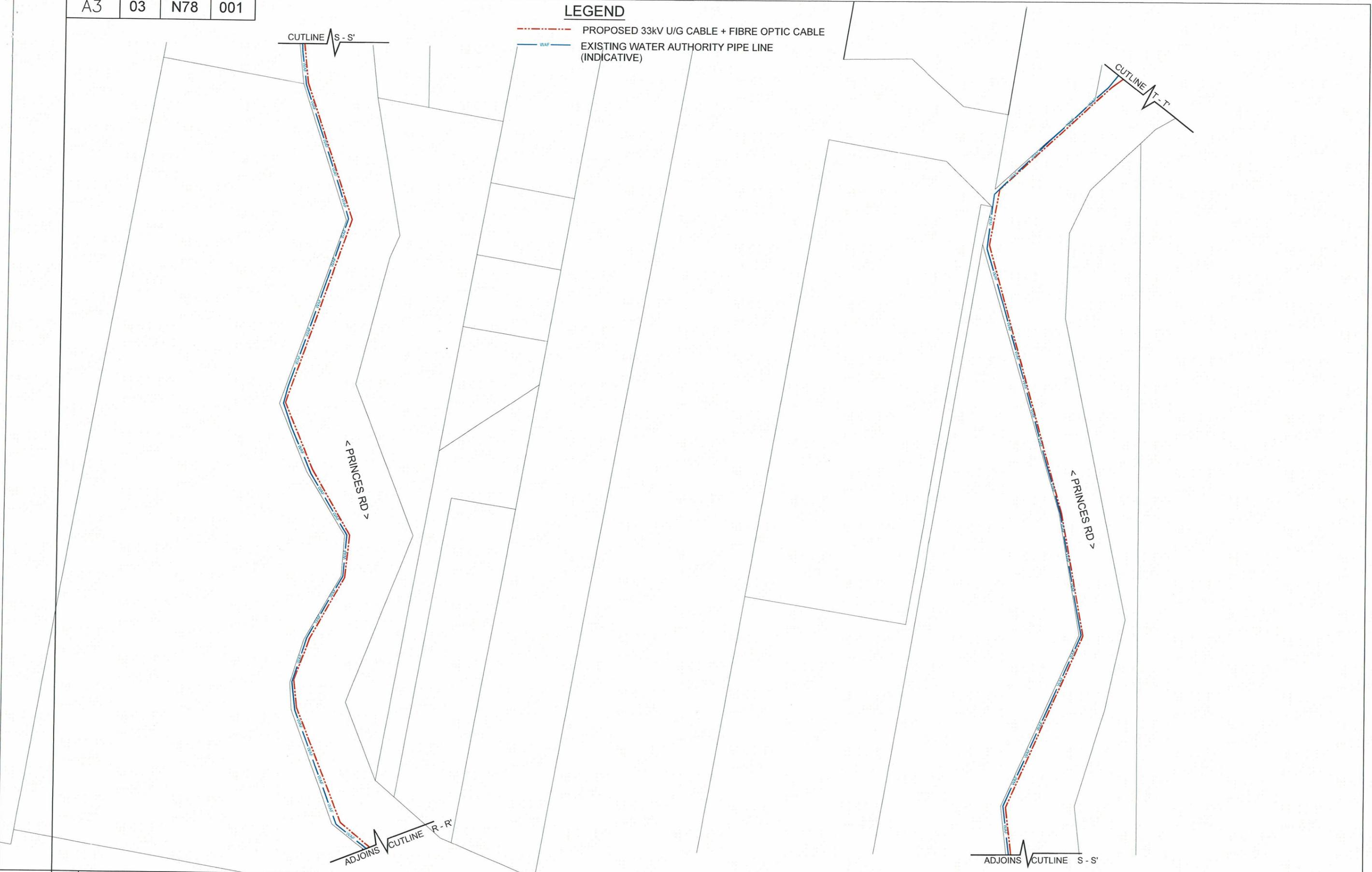
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**LEGEND**

- - - PROPOSED 33KV U/G CABLE + FIBRE OPTIC CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



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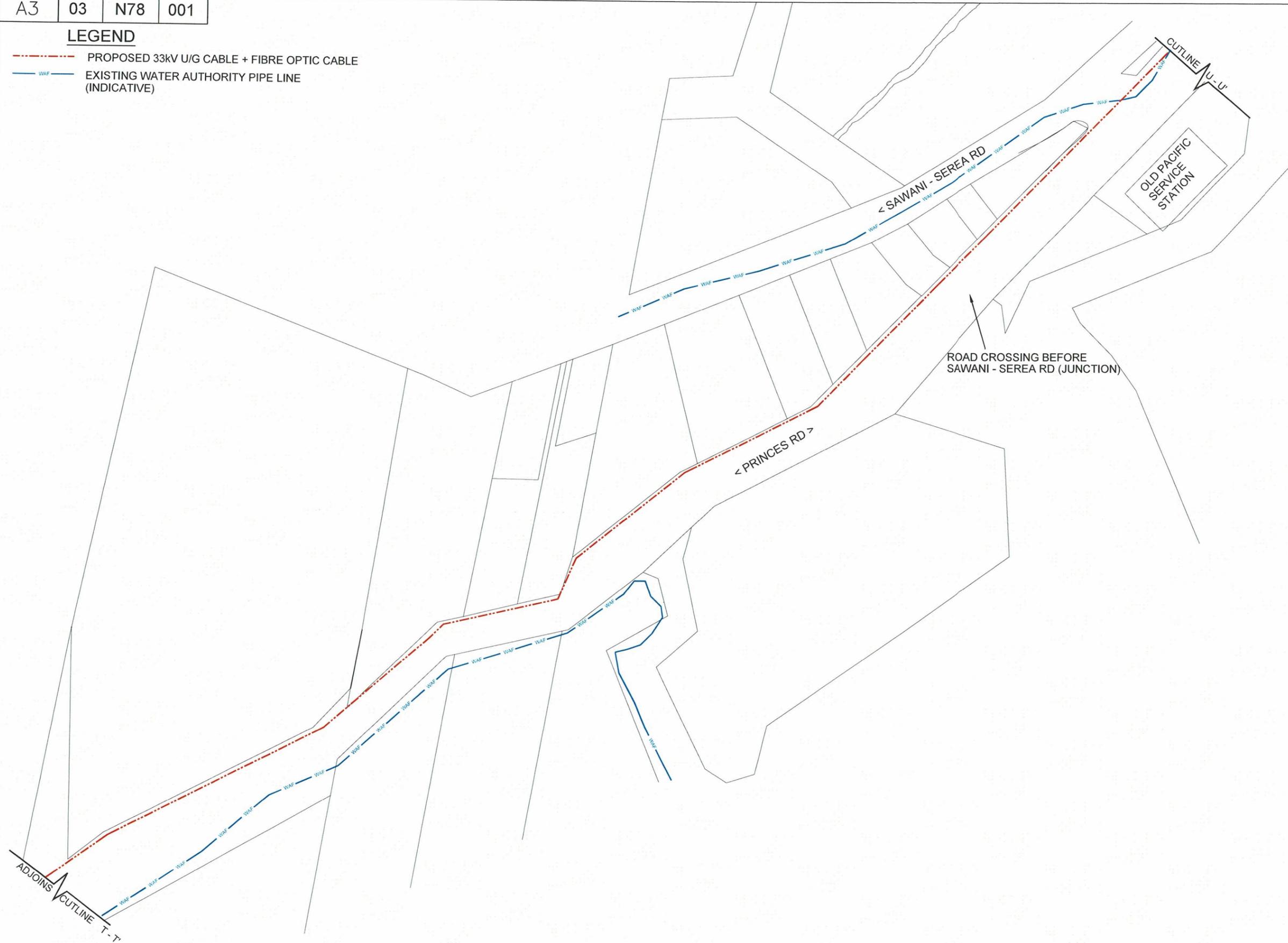
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**LEGEND**

- - - PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- - - WAF EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



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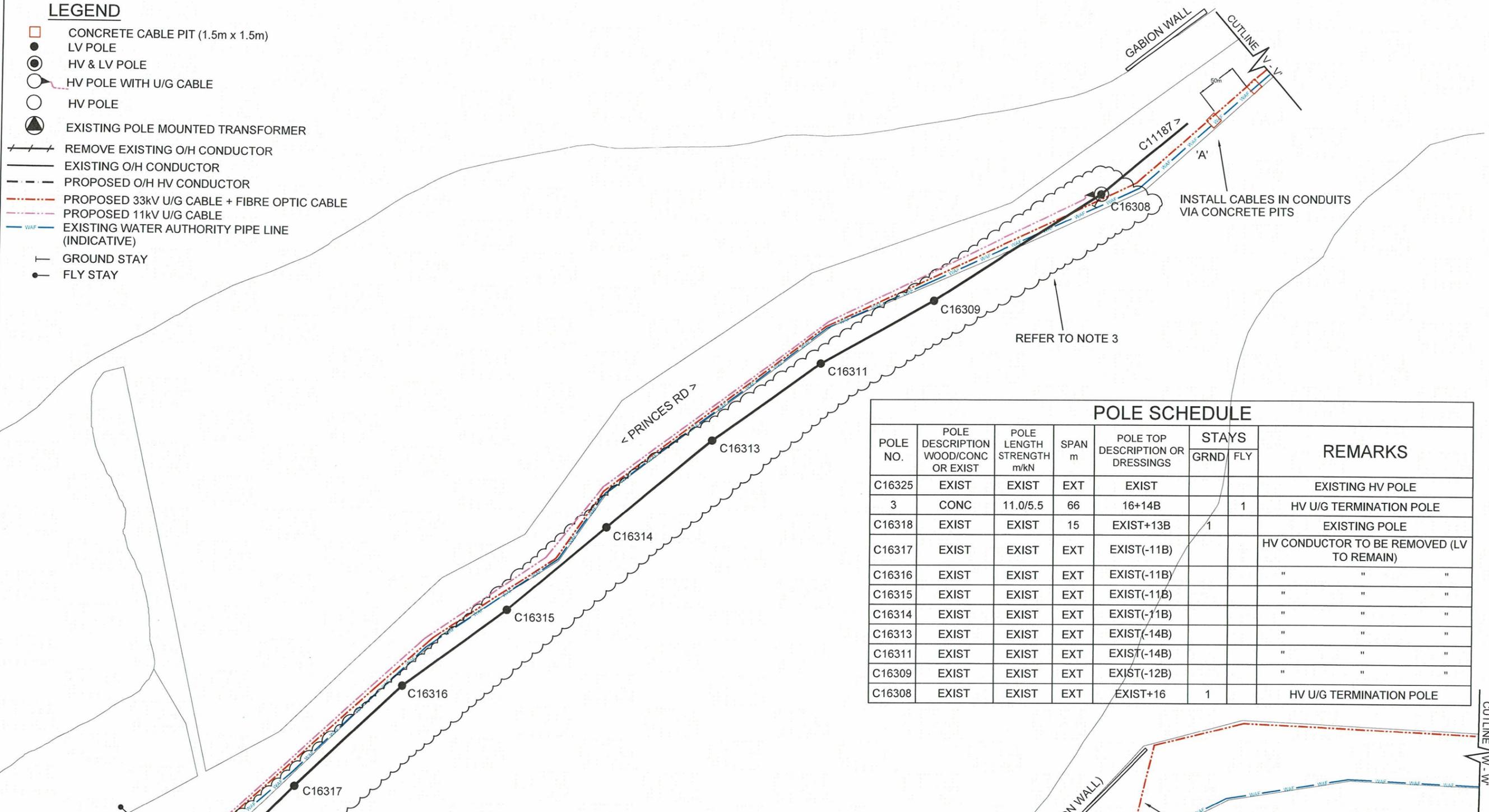
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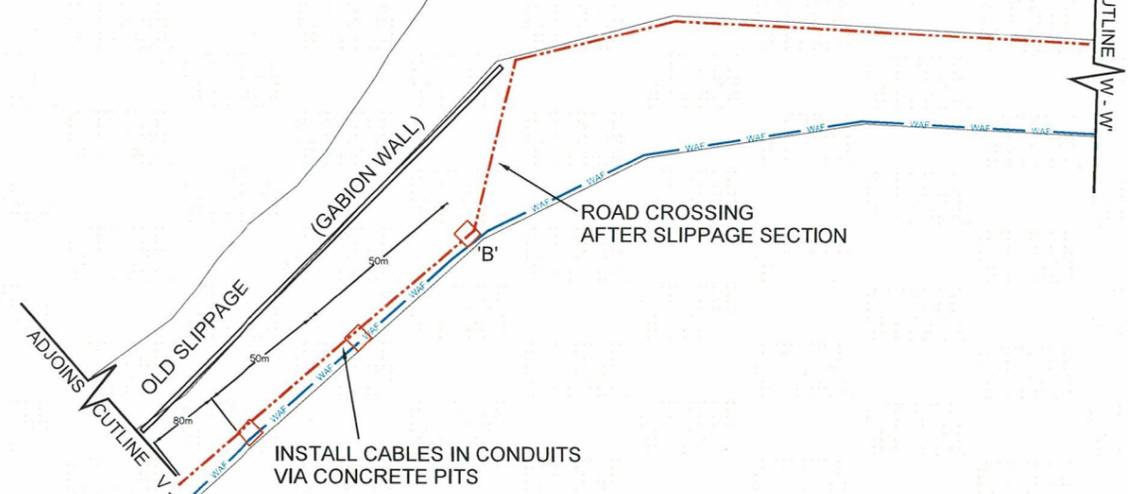
**LEGEND**

- CONCRETE CABLE PIT (1.5m x 1.5m)
- LV POLE
- ⊙ HV & LV POLE
- HV POLE WITH U/G CABLE
- HV POLE
- ⊙ EXISTING POLE MOUNTED TRANSFORMER
- REMOVE EXISTING O/H CONDUCTOR
- EXISTING O/H CONDUCTOR
- - - PROPOSED O/H HV CONDUCTOR
- . - . PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- - - PROPOSED 11kV U/G CABLE
- WAF EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)
- GROUND STAY
- FLY STAY



POLE SCHEDULE							
POLE NO.	POLE DESCRIPTION WOOD/CONC OR EXIST	POLE LENGTH STRENGTH m/kN	SPAN m	POLE TOP DESCRIPTION OR DRESSINGS	STAYS		REMARKS
					GRND	FLY	
C16325	EXIST	EXIST	EXT	EXIST			EXISTING HV POLE
3	CONC	11.0/5.5	66	16+14B		1	HV U/G TERMINATION POLE
C16318	EXIST	EXIST	15	EXIST+13B	1		EXISTING POLE
C16317	EXIST	EXIST	EXT	EXIST(-11B)			HV CONDUCTOR TO BE REMOVED (LV TO REMAIN)
C16316	EXIST	EXIST	EXT	EXIST(-11B)			" " "
C16315	EXIST	EXIST	EXT	EXIST(-11B)			" " "
C16314	EXIST	EXIST	EXT	EXIST(-11B)			" " "
C16313	EXIST	EXIST	EXT	EXIST(-14B)			" " "
C16311	EXIST	EXIST	EXT	EXIST(-14B)			" " "
C16309	EXIST	EXIST	EXT	EXIST(-12B)			" " "
C16308	EXIST	EXIST	EXT	EXIST+16	1		HV U/G TERMINATION POLE

**NOTE:**  
 1. CABLES ARE INSTALLED IN CONDUITS TO PROVIDE PROTECTION / SAFE CLEARANCE FOR FUTURE MAINTAENANCE OF WAF'S WATER MAINS.  
 2. CABLE INSTALLATION OPPOSITE THE ROAD IS INFEASIBLE DUE TO SLIPPAGE HISTORY AND PRESENCE OF GABION WALL.  
 3. REMOVE EXISTING HV CONDUCTORS ONLY.



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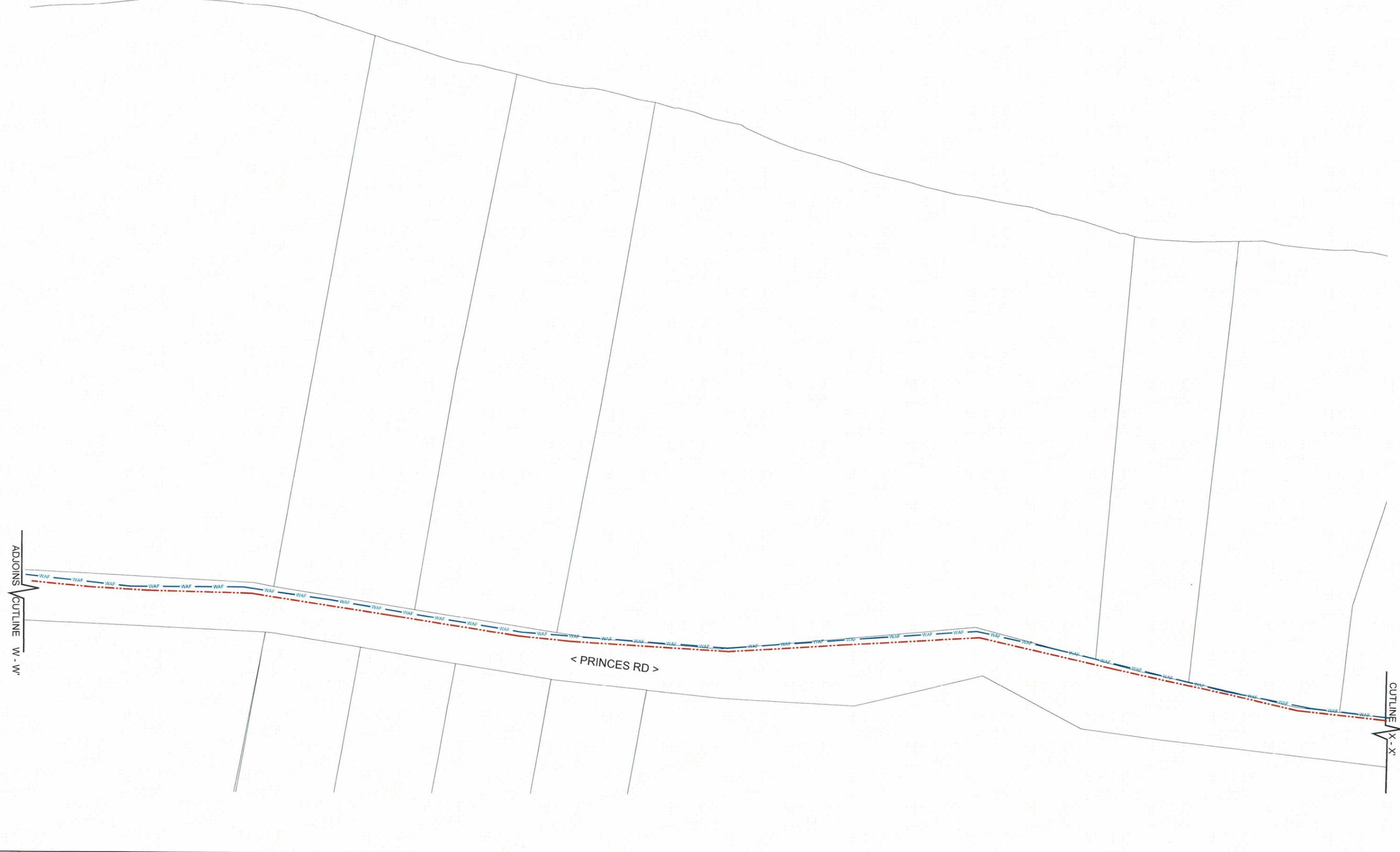
## ENERGY FIJI LIMITED

**INSTALLATION OF NEW 33kV SUB-TRANSMISSION LINE BETWEEN CUNNINGHAM RD AND SAWANI SUBSTATION (CIRCUIT B) (SR25.25)**

DRAWING NUMBER			
A3	03	N78	001
SCALE 1 : 2000			

**LEGEND**

- - - - - PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



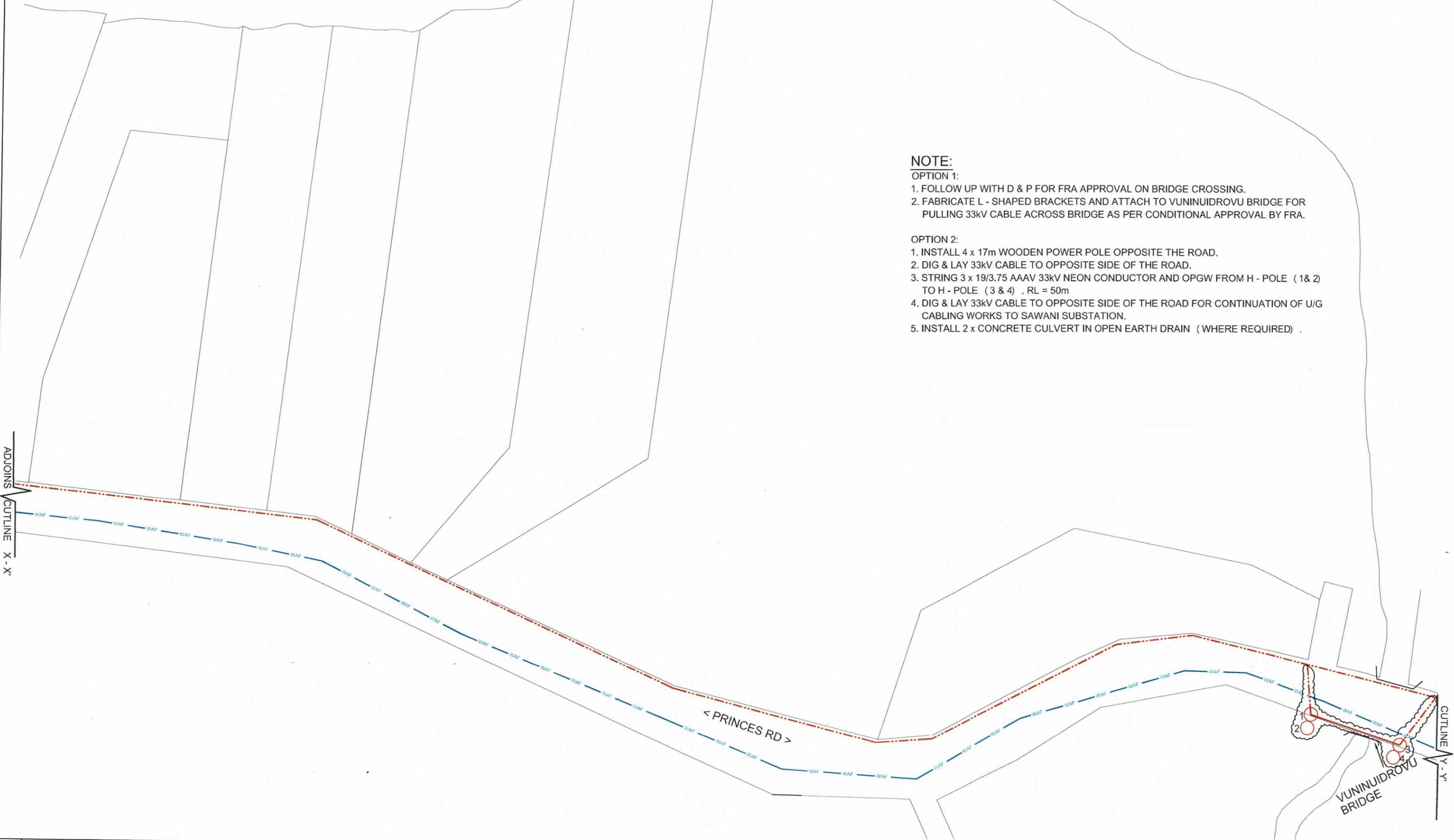
0	ORIGINAL ISSUE FOR SR25.25	10.02.26	PS	<i>PK</i>	<i>RLW</i>	<i>AA</i>	
No.	REVISION	DATE	BY	CHK	DEPT. ENG	HOD	

	DRAWN	PRIYA	10.02.26
	CHECKED	<i>PK</i>	11/02/26
	GIS COORDINATOR	<i>PK</i>	11.02.26
	TEAM LEADER DESIGN & PLANNING	<i>RLW</i>	12/2/26
ENGINEER	<i>AA</i>	16.2.26	
HEAD OF DEPARTMENT			

<b>ENERGY FIJI LIMITED</b>		SHEET 14 OF 17
INSTALLATION OF NEW 33kV SUB-TRANSMISSION LINE BETWEEN CUNNINGHAM RD AND SAWANI SUBSTATION (CIRCUIT B) (SR25.25)		DRAWING NUMBER
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		SCALE 1 : 2000

**LEGEND**

-  33/11kV HV POLE
-  PROPOSED 33kV O/H CONDUCTOR
-  PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
-  EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)



**NOTE:**

- OPTION 1:**
1. FOLLOW UP WITH D & P FOR FRA APPROVAL ON BRIDGE CROSSING.
  2. FABRICATE L - SHAPED BRACKETS AND ATTACH TO VUNINUIDROVU BRIDGE FOR PULLING 33kV CABLE ACROSS BRIDGE AS PER CONDITIONAL APPROVAL BY FRA.
- OPTION 2:**
1. INSTALL 4 x 17m WOODEN POWER POLE OPPOSITE THE ROAD.
  2. DIG & LAY 33kV CABLE TO OPPOSITE SIDE OF THE ROAD.
  3. STRING 3 x 19/3.75 AAAV 33kV NEON CONDUCTOR AND OPGW FROM H - POLE (1 & 2) TO H - POLE (3 & 4) . RL = 50m
  4. DIG & LAY 33kV CABLE TO OPPOSITE SIDE OF THE ROAD FOR CONTINUATION OF U/G CABLING WORKS TO SAWANI SUBSTATION.
  5. INSTALL 2 x CONCRETE CULVERT IN OPEN EARTH DRAIN (WHERE REQUIRED) .

ADJOINS CUTLINE X-X'

CUTLINE Y-Y'

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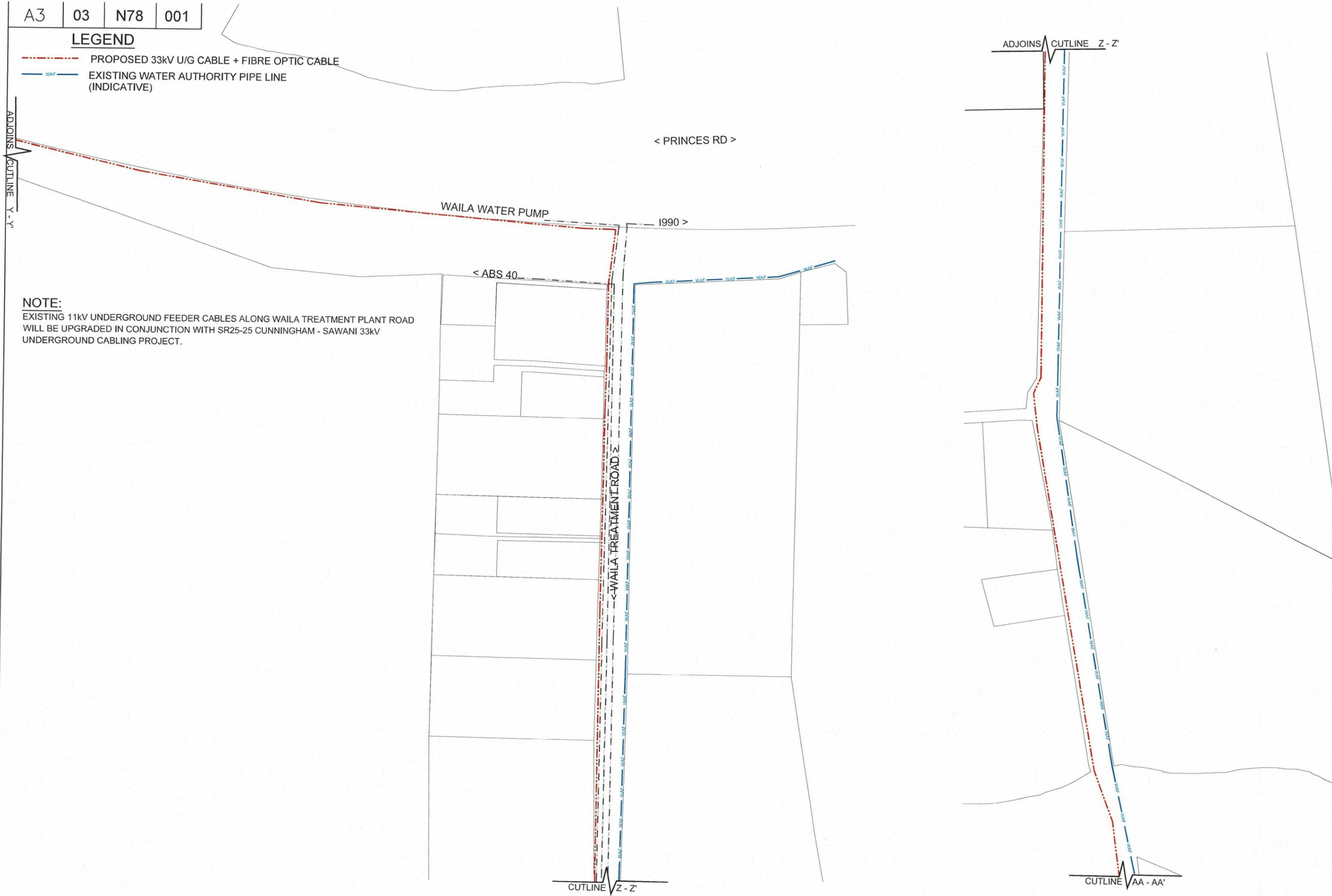
SCALE 1 : 2000

**LEGEND**

- - - PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- - - EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)

**NOTE:**

EXISTING 11kV UNDERGROUND FEEDER CABLES ALONG WAILA TREATMENT PLANT ROAD WILL BE UPGRADED IN CONJUNCTION WITH SR25-25 CUNNINGHAM - SAWANI 33kV UNDERGROUND CABLING PROJECT.



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SHEET 16 OF 17

## ENERGY FIJI LIMITED

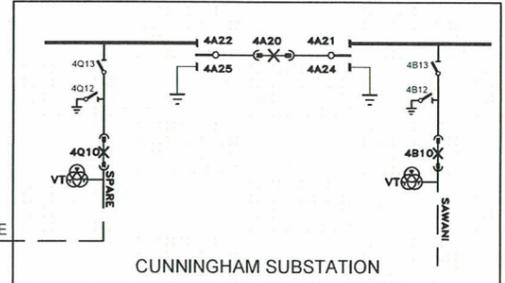
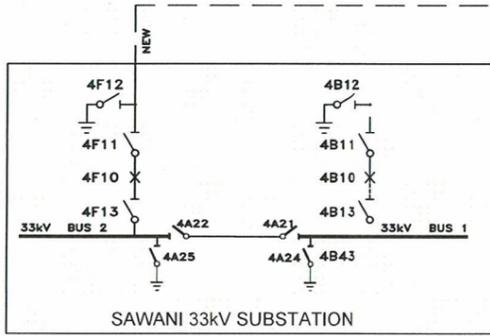
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ADJOINS CUTLINE AA-AA'

FINAL SINGLE LINE DIAGRAM  
REF. DRWG 02 N10 010

FINAL SINGLE LINE DIAGRAM  
REF. DRWG 04 N10 010



FINAL 33kV HV CIRCUIT

FINAL 11kV HV CIRCUIT

**LEGEND**

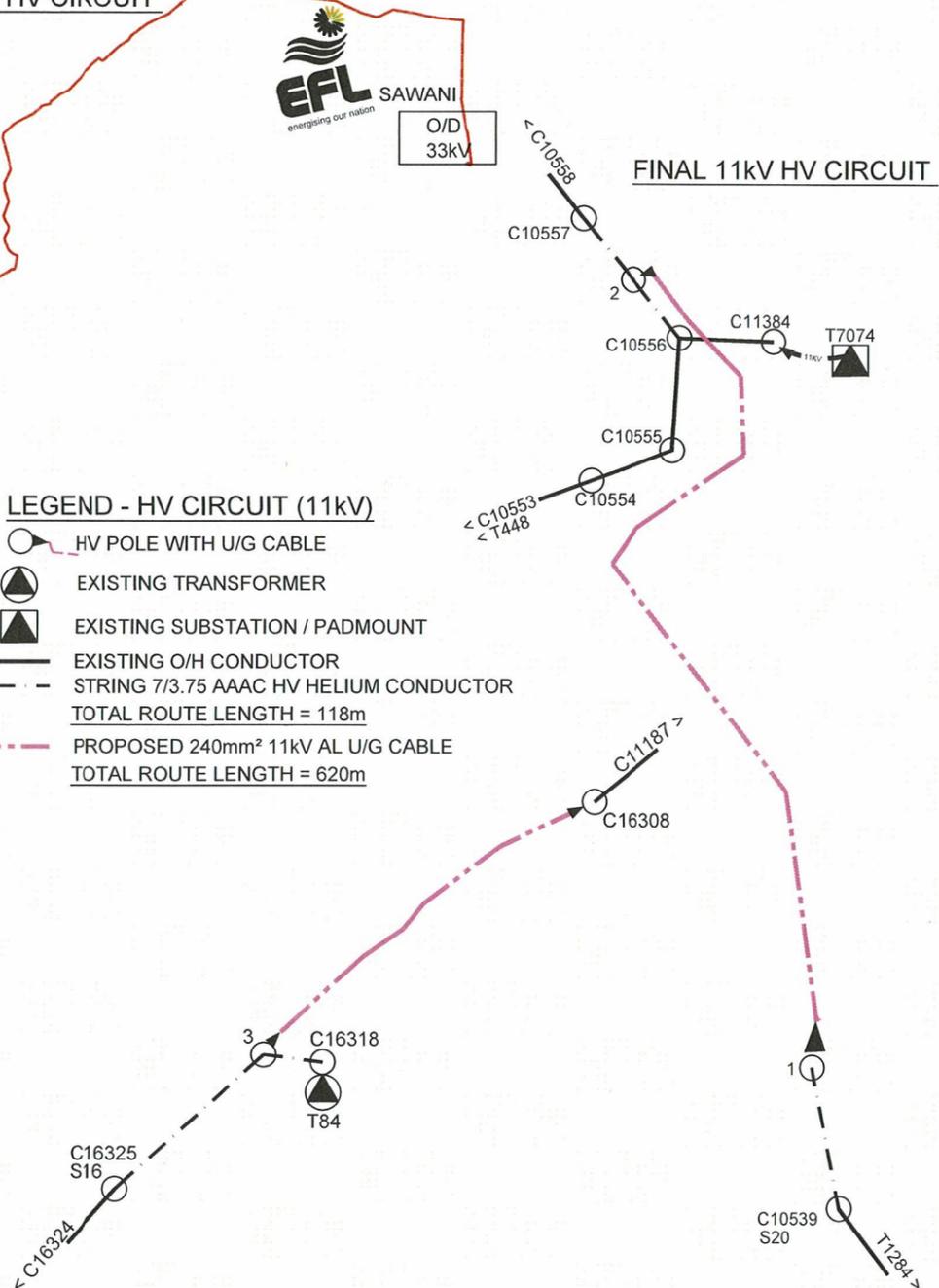
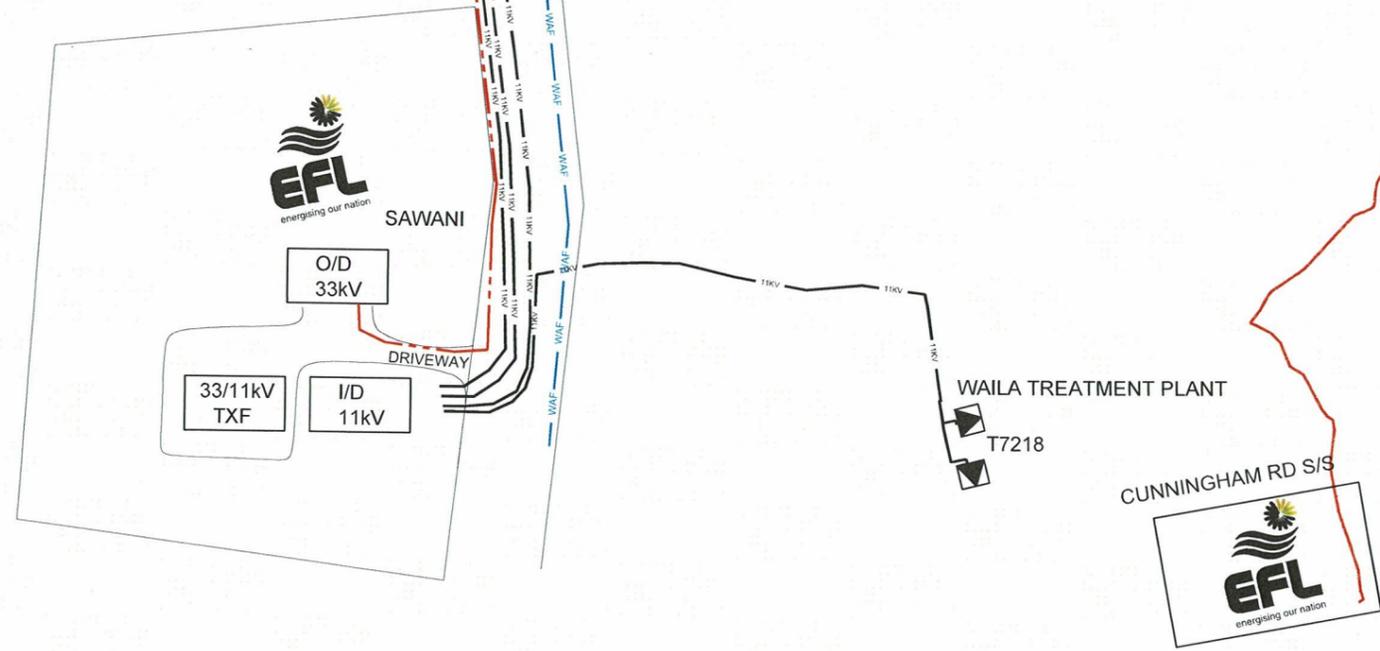
- EXISTING SUBSTATION / PADMOUNT
- EXISTING 11kV U/G CABLE
- PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)

**LEGEND - HV CIRCUIT (33kV)**

- PROPOSED 33kV U/G CABLE + FIBRE OPTIC CABLE  
TOTAL ROUTE LENGTH = 15.54km

**LEGEND - HV CIRCUIT (11kV)**

- HV POLE WITH U/G CABLE
- EXISTING TRANSFORMER
- EXISTING SUBSTATION / PADMOUNT
- EXISTING O/H CONDUCTOR
- STRING 7/3.75 AAAC HV HELIUM CONDUCTOR  
TOTAL ROUTE LENGTH = 118m
- PROPOSED 240mm<sup>2</sup> 11kV AL U/G CABLE  
TOTAL ROUTE LENGTH = 620m



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