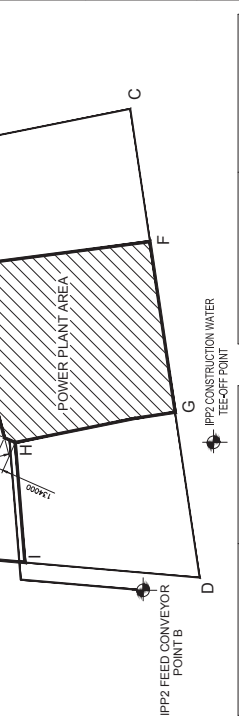


TCE 10167A-WE-SK-1001
PLOT PLAN

1000 W 1001 W 1002 W 1003 W 1004 W 1005 W 1006 W 1007 W 1008 W 1009 W 1010 W 1011 W 1012 W 1013 W 1014 W 1015 W 1016 W 1017 W 1018 W 1019 W 1020 W

1000 E 1001 E 1002 E 1003 E 1004 E 1005 E 1006 E 1007 E 1008 E 1009 E 1010 E 1011 E 1012 E 1013 E 1014 E 1015 E 1016 E 1017 E 1018 E 1019 E 1020 E



UTM COORDINATES

NOTE	EASTING	NORTHING	LATITUDE	LONGITUDE
A	500345.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
B	500350.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
C	500355.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
D	500360.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
E	500365.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
F	500370.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
G	500375.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
H	500380.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E

UTM COORDINATES

NOTE	EASTING	NORTHING	LATITUDE	LONGITUDE
A	500370.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
B	500375.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
C	500380.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
D	500385.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
E	500390.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
F	500395.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
G	500400.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E
H	500405.05 E	7382261.17 N	27° 20' 24.52 E	27° 29' 54.52 E

LEGEND

DESCRIPTION	OVERALL DIMENSION	DESCRIPTION	OVERALL DIMENSION
1 POWER HOUSE BUILDING INCLUDING ELECTRICAL BAY	40M X 40M	1 CHIP CONTROL ROOM	42M X 25M
2 SPACE FOR BLOWER	92.5 M X 12 M	2 CENTRAL CONTROL ROOM	30 M X 15 M
3 ELECTRICAL CONTROL EQUIP. BUILDING	38 M X 22 M	3 FLY ASH SILO	Ø 16 M (X 10S)
4 BOILER	40 M X 40 M	4 LIME STONE CONVEYOR	40 M X 10 M
5 PRIMARY AIR FAN	22.5 M X 12.5 M	5 GATE, SECURITY, TIME OFFICE & FREE STATION BUILDING	40 M X 15 M
6 SECONDARY AIR FAN	60 M X 17 M	6 WEGH BRIDGE	15 M X 8 M
7 ESP	38 M X 11.5 M	7 WEGH BRIDGE CONTROL ROOM	4 M X 4 M
8 ID FAN	42 M X 12 M	8 CAR PARKING & CYCLE STAND	35 M X 30 M
9 ESP CONTROL ROOM FOR UNIT #1 & 2	45 M X 10 M	9 ADMIN. CANTEEN & TRAINING COMMERCIAL UNIT BUILDING	80 M X 35 M
10 AIR COMPRESSOR HOUSE COME ELECTRICAL ROOM	9.22 M	10 MAIN ENTRANCE	---
11 CHIMNEY	90 M X 9 M	11 COAL RUN-OFF PIT	40 M X 80 M
12 AIR COOLED CONDENSER	50 M X 40 M	12 SPACE FOR EQUIPMENT USE	75 M X 232 M
13 TRANSFORMER YARD	15 M X 12 M	13 UNCOVERED STORE	75 M X 85 M
14 CONDENSATE STORAGE TANK & PUMPING SYSTEM	27 M X 12 M	14 SPACE FOR BATCHING PLANT (TEMPORARY)	60 M X 80 M
15 TECHNICAL BUILDING	62.5 M X 23 M	15 LAY DOWN AREA FOR RIG EQUIPMENT	200 M X 100 M
16 COMPRESSOR CONTROL ROOM	100 M X 26 M X 3 M	16 SPACE FOR SILO ELECTRICAL ROOM	20 M X 10 M
17 RAW WATER STORAGE TANK (WITH COMPARTMENT)	13 M X 9 M	17 POWER EVAPORATION CONDENSOR	400 M X 200 M
18 RAW WATER PUMP HOUSE	9.22 M (2 NOS)	18 PIPE RACK	---
19 COMPRESSOR	22 M X 21 M	19 ASH CONVEYOR	---
20 FETTERED WATER STORAGE TANK & PUMP HOUSE	31 M X 20 M	20 ASH DUMP YARD	485 M X 160 M
21 CLARIFIED WATER STORAGE TANK & PUMP HOUSE	78 M X 43 M	21 LDO UNLOADING AREA & STORAGE TANK	100 M X 65 M
22 CHEMICAL STORE COME ELECTRICAL BUILDING	78 M X 18 M	22 GREEN BELT	262.234 ACRE
23 DM & RO PLANT	78 M X 18 M	23 FIRE STATION	30 M X 20 M
24 UNWATER STORAGE TANK	69 M X 25 M	24 LIMESTONE STOCKPILE	80 M X 30 M
25 RAW WATER STORAGE TANK	38 M X 60 M	25 LIMESTONE MILLING PLANT	70 M X 30 M
26 COVERED SHED	38 M X 10 M	26 COAL CONVEYOR	---
27 CRUSHED COAL STOCK PILE	38 M X 24 M	27 GUARD POND	---
28 TRUCK LOOPER FOR LIME STONE	---	---	---
29 COUSINER HOUSE	---	---	---

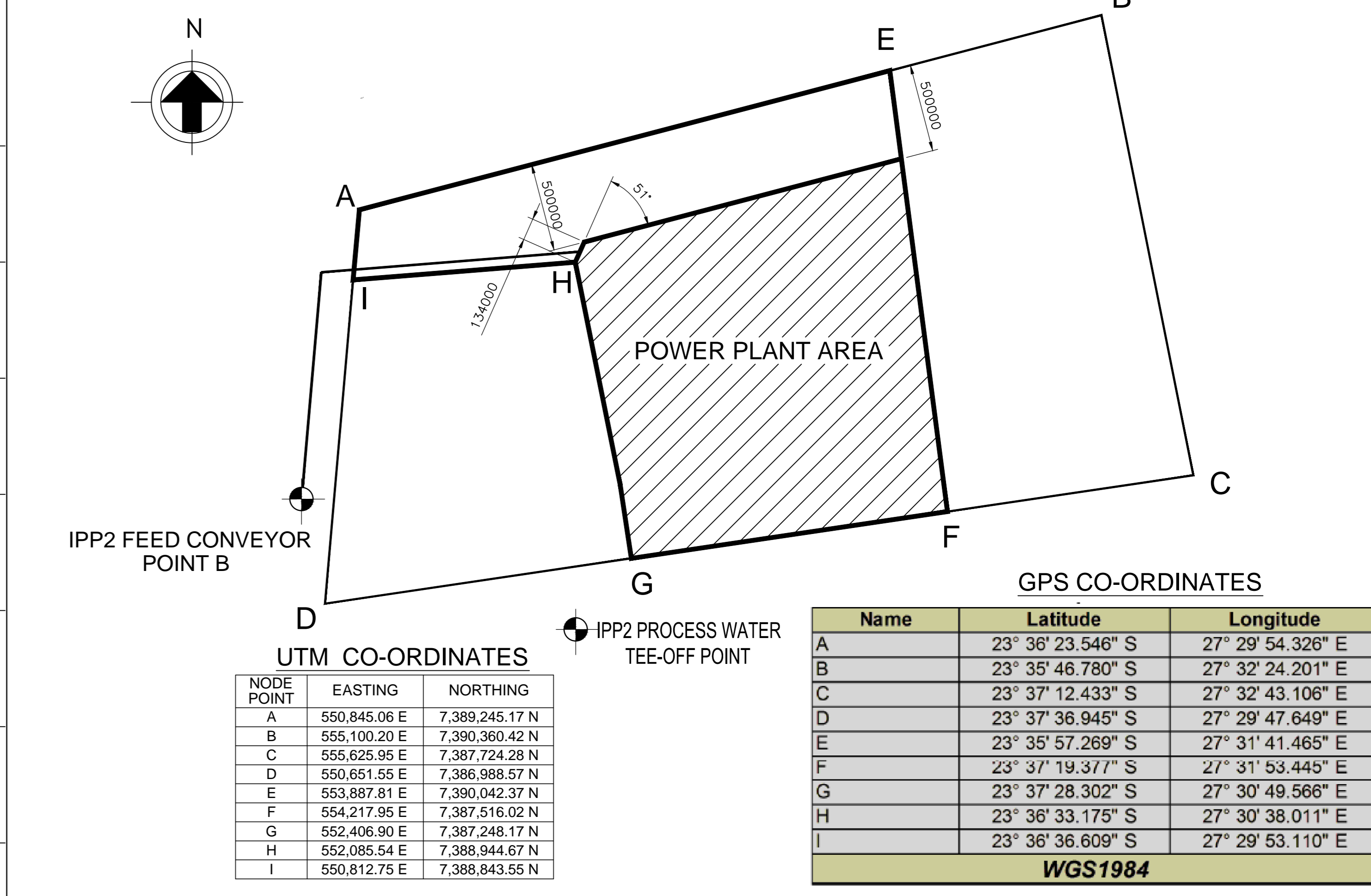
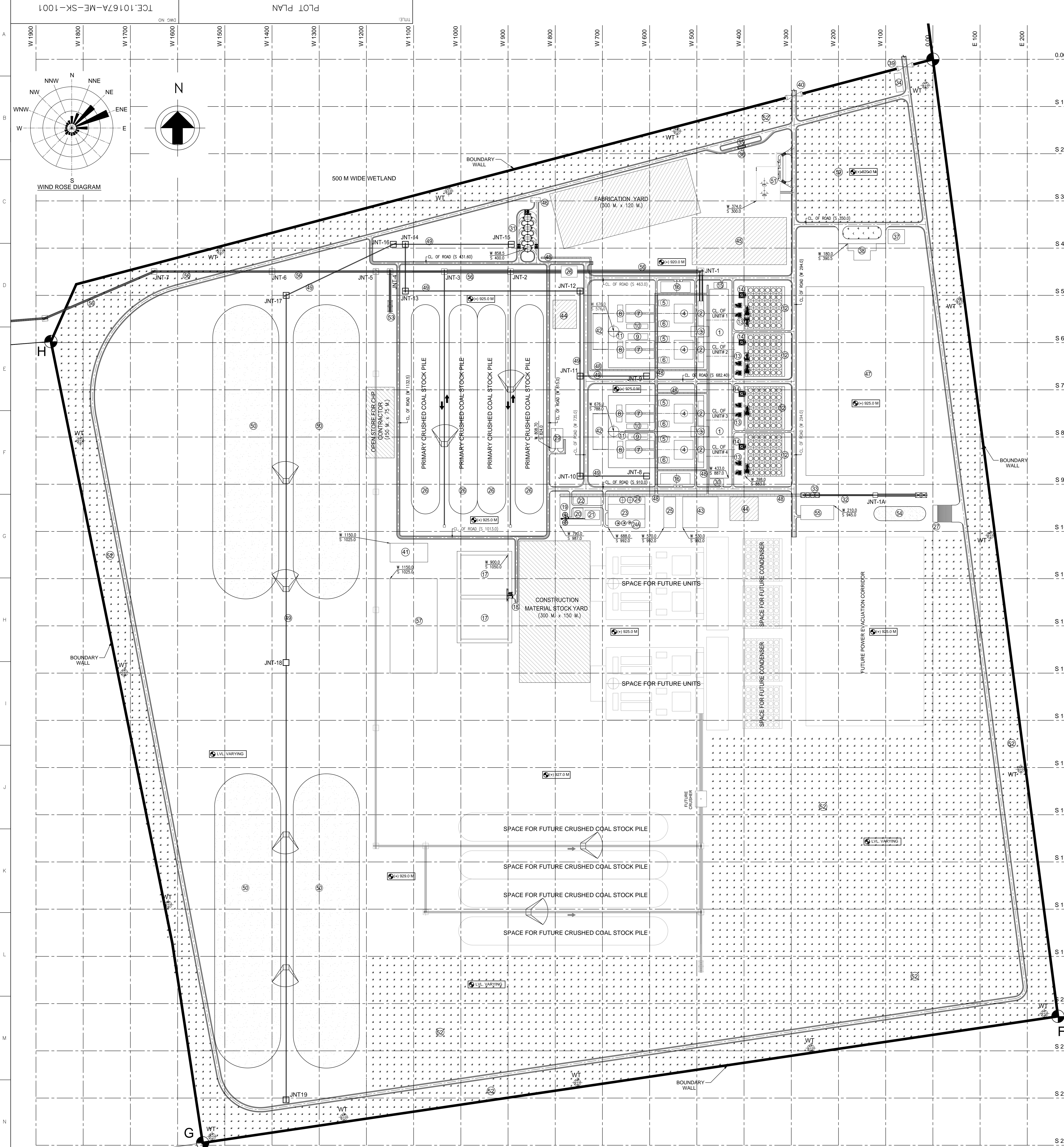
NOTES:

1. PLANT AREA = 64906 ACRES.
2. ALL COORDINATES ARE IN METERS UNLESS OTHERWISE STATED.
3. TOTAL AREA = 262234 ACRES.
4. BOUNDARY WALL WITH BARBED WIRE FENCING AT TOP SHALL BE PROVIDED.
5. PLANT AREA FINISHED GRADE LEVEL (+1022.0 M).
6. FINISHED GRADE LEVEL NEAR ADMIN. BUILDING & ADJACENT AREA SHALL BE (+1020.0 M).
7. ROAD LEVEL SHALL BE 1000 M ABOVE LOCAL FINISHED GRADE LEVEL NEAR ROAD.
8. BOILER AREA FINISHED FLOOR LEVEL SHALL BE 0.100 M ABOVE NEARBY ROAD LEVEL.

DO NOT SCALE

TSHIVHASO POWER PROJECT
41 105 MW COAL FIRED POWER PROJECT AT THAMBO, SOUTH AFRICA

TSHIVHASO CONSULTING ENGINEERS LIMITED
1000 W 1001 W 1002 W 1003 W 1004 W 1005 W 1006 W 1007 W 1008 W 1009 W 1010 W 1011 W 1012 W 1013 W 1014 W 1015 W 1016 W 1017 W 1018 W 1019 W 1020 W



UTM CO-ORDINATES			GPS CO-ORDINATES		
NODE POINT	EASTING	NORTHING	Name	Latitude	Longitude
A	550,845.06 E	7,389,245.17 N	A	23° 36' 23.546" S	27° 29' 54.326" E
B	555,100.20 E	7,390,360.42 N	B	23° 35' 46.780" S	27° 32' 24.201" E
C	555,625.95 E	7,387,724.28 N	C	23° 37' 12.433" S	27° 32' 43.106" E
D	550,651.55 E	7,386,988.57 N	D	23° 37' 36.945" S	27° 29' 47.649" E
E	553,887.81 E	7,390,042.37 N	E	23° 37' 19.377" S	27° 31' 53.445" E
F	554,217.95 E	7,387,516.02 N	F	23° 37' 28.302" S	27° 30' 49.566" E
G	552,408.90 E	7,387,248.17 N	G	23° 35' 57.269" S	27° 31' 41.465" E
H	552,085.54 E	7,388,944.67 N	H	23° 36' 33.175" S	27° 30' 38.011" E
I	550,812.75 E	7,388,843.55 N	I	23° 36' 36.609" S	27° 29' 53.110" E

LEGEND					
IDENTIFICATION NO.	DESCRIPTION	OVERALL DIMENSION	IDENTIFICATION NO.	DESCRIPTION	OVERALL DIMENSION
1	POWER HOUSE BUILDING INCLUDING ELECTRICAL BAY	400 M. x 40 M.	29	CHP CONTROL ROOM	42 M. x 25 M.
2	SPACE FOR BUNKER / BLOWER	52.5 M. x 12 M.	30	CENTRAL CONTROL ROOM	30 M. x 15 M.
3	ELECTRICAL CONTROL EQUIPT. BUILDING	38 M. x 22 M.	31	FLY ASH SILO	Ø 16 M. (4 NOS.)
4	BOILER	40 M. x 40 M.	32	LIME STONE CONVEYOR	----
5	PRIMARY AIR FAN	22.5 M. x 12.5 M.	33	LIME STONE BUNKER	40 M. x 10 M.
6	SECONDARY AIR FAN	22.5 M. x 12.5 M.	34	GATE, SECURITY, TIME OFFICE & FIRE STATION BUILDING	40 M. x 15 M.
7	ESP	60 M. x 17 M.	35	WEIGH BRIDGE	15 M. x 5 M.
8	ID FAN	36 M. x 11.5 M.	36	WEIGH BRIDGE CONTROL ROOM	4 M. x 4 M.
9	ESP CONTROL ROOM FOR UNIT #1 & #2	42 M. x 12 M.	37	CAR PARKING & CYCLE STAND	35 M. x 30 M.
10	ASH COMPRESSOR HOUSE CUM ELECTRICAL ROOM	45 M. x 10 M.	38	ADMIN. CANTEEN & TRAINING CUM MEDICAL UNIT BUILDING	60 M. x 35 M.
11	CHIMNEY	Ø 22 M.	39	MAIN ENTRANCE	----
12	AIR COOLED CONDENSER	90 M. x 84 M.	40	MATERIAL ENTRY GATE	----
13	TRANSFORMER YARD	50 M. x 40 M.	41	COAL RUN-OFF PIT	40 M. x 80 M.
14	CONDENSATE STORAGE TANK & PUMPING SYSTEM	15 M. x 12 M.	42	AREA FOR FGD	75 M. x 32.5 M.
15	TECHNICAL BUILDING	27 M. x 12 M.	43	UNCOVERED STORE	75 M. x 65 M.
16	COMPRESSOR CUM DG ROOM	62.5 M. x 23 M.	44	SPACE FOR BATCHING PLANT (TEMPORARY)	60 M. x 50 M.
17	RAW WATER STORAGE TANK (TWIN COMPARTMENT)	100 M. x 85 M. x 3 M.	45	LAY DOWN AREA FOR BTG EQUIPMENT	200 M. x 100 M.
18	RAW WATER PUMP HOUSE	13 M. x 9 M.	46	SPACE FOR HCSD	20 M. x 10 M.
19	CLARIFLOCCULATOR	Ø 22 M. (2 NOS.)	47	POWER EVACUATION CORRIDOR	400 M. x 250 M.
20	FILTERED WATER STORAGE TANK & PUMP HOUSE	22 M. x 21 M.	48	PIPE RACK	----
21	CLARIFIED WATER STORAGE TANK & PUMP HOUSE	31 M. x 20 M.	49	ASH CONVEYOR	----
22	CHEMICAL STORE CUM ELECTRICAL BUILDING	30 M. x 15 M.	50	ASH DUMP YARD	485 M. x 140 M.
23	DM & RO PLANT	78 M. x 33 M.	51	LDO UNLOADING AREA & STORAGE TANK	100 M. x 65 M.
24	DM WATER STORAGE TANK	78 M. x 16 M.	52	GREEN BELT	262,234 ACRE
24A	RO WATER STORAGE TANK	78 M. x 16 M.	53	EMERGENCY RECLAIM HOPPER	----
25	COVERED SHADE	65 M. x 25 M.	54	LIMESTONE STOCK PILE	80 M. x 30 M.
26	CRUSHED COAL STOCK PILE	385 M. x 60 M.	55	LIMESTONE MILLING PLANT	70 M. x 30 M.
27	TRUCK HOPPER FOR LIME STONE	36 M. x 10 M.	56	COAL CONVEYOR	----
28	CRUSHER HOUSE	34 M. x 24 M.	57	GUARD POND	----

NOTES:

- a) PLANT AREA - 649.808 ACRE.
- b) GREEN BELT AREA - 262.234 ACRE.
- c) TOTAL AREA - 902.042 ACRE.
- ALL CO-ORDINATES ARE IN METERS UNLESS OTHERWISE STATED.
- "WT" DENOTES "WATCH TOWER" & "JNT" DENOTES "JUNCTION TOWER".
- WATER SHALL BE TAPPED OFF FROM IPP2 PROCESS WATER TEE OFF POINT AT Y = 52290.140; X = -2613825.910 TO RAW WATER STORAGE RESERVOIR THROUGH UNDER GROUND PIPE.
- COAL SHALL BE FED FROM IPP2 FEED CONVEYOR POINT-B AT Y = 50488.978; X = -2613046.137
- BOUNDARY WALL WITH BARBED WIRE FENCING AT TOP SHALL BE PROVIDED
- PLANT AREA FINISHED GRADE LEVEL (+)923.0 M
- FINISHED GRADE LEVEL NEAR ADMIN. BUILDING & ADJACENT AREA SHALL BE (+)920.0 M
- ROAD LEVEL SHALL BE 0.500 M ABOVE LOCAL FINISHED GRADE LEVEL.
- POWER HOUSE AND ALL BUILDING GROUND FLOOR LEVEL SHALL BE 0.300 M ABOVE NEARBY ROAD LEVEL
- ROU FR ARFA FINISHED FLOOR (FVFI) SHALL BE 0.100 M ABOVE NFARRY ROAD (FVFI)

DO NOT SCALE

TSHIVHASO POWER PROJECT
4X 150 MW COAL FIRED POWER PROJECT AT TSHIVASO, SOUTH AFRICA

PLOT PLAN

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE: 1:3000
DWG NO: ICE.10167A-ME-SK-1001
ISSUE: P1

FILE NAME: T0167A-ME-SK-1001-Rev-P1
DC & DISC: KOL-ME

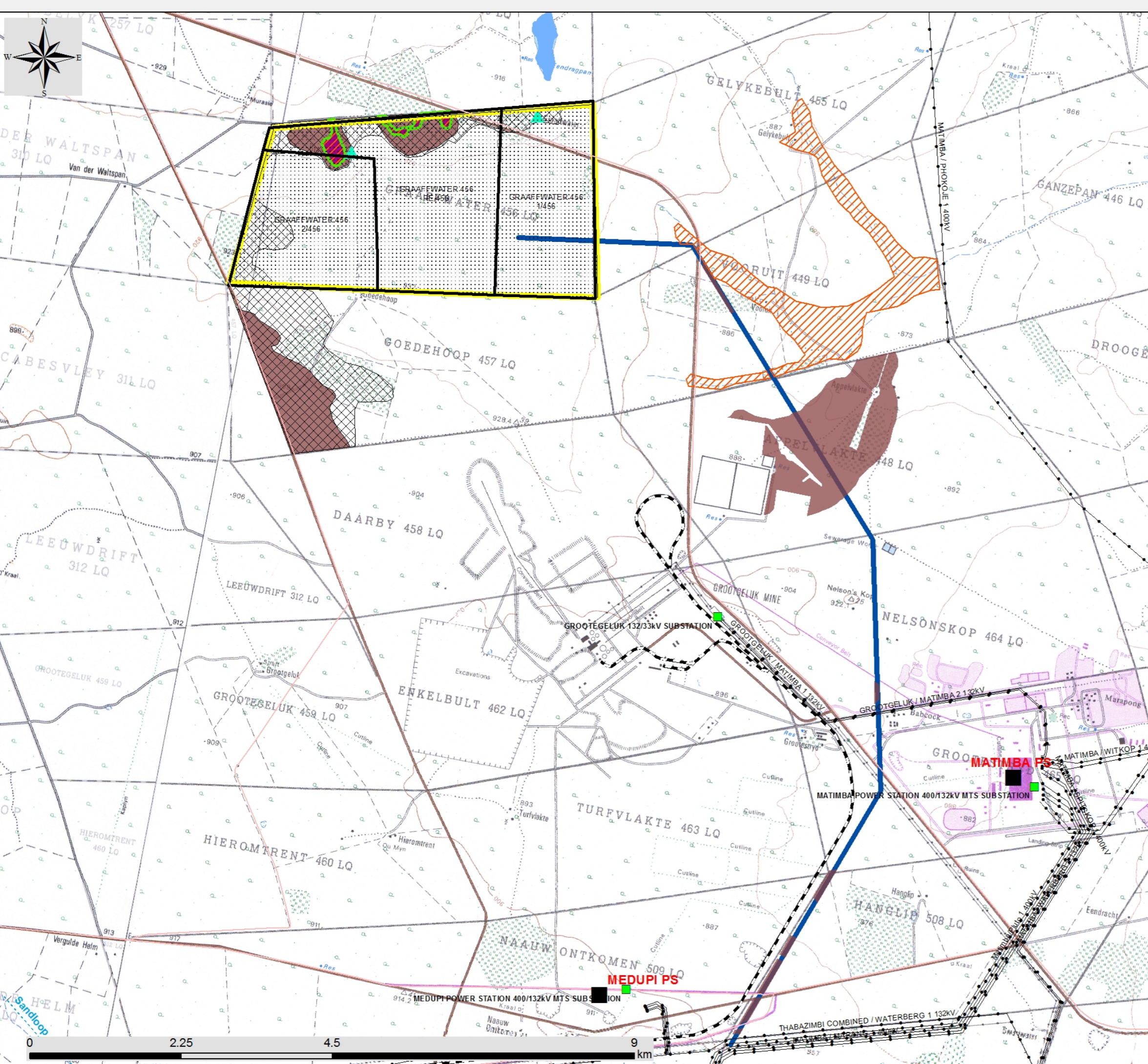
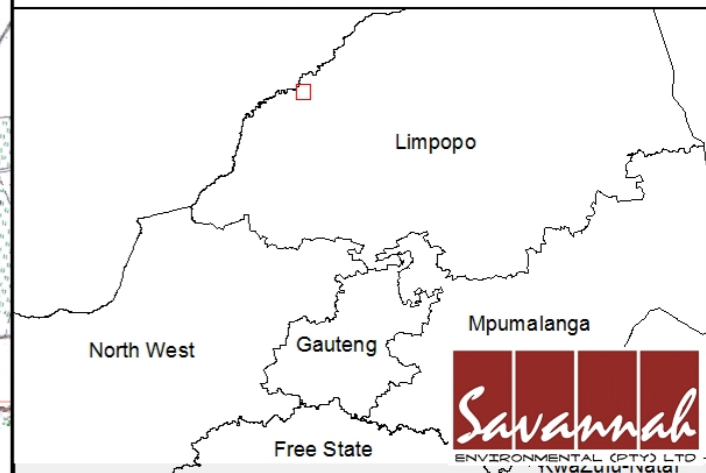
Proposed Tshivhaso Power Station near Lephalale

Environmental Sensitivity and Layout Map

Legend

- Power Station
 - Eskom Substation
 - Eskom Power Line
 - Railway Line
 - Regional Road
 - Main Road
 - Perennial River
 - Non-Perennial River
 - Affected Farms
- Ash-Dump and Power Station Options:**
- Ash-Dump Alternative
 - Power Station Alternative Site 1
- Grid Connection Option:**
- Matimba-Medupi Loop-In
- Environmental Sensitivities:**
- Ruin (Recorded Heritage Feature)
 - Medium-high Floristic Sensitivity
 - High Avifaunal Sensitivity
 - High Faunal Sensitivity
 - Medium-high Avifaunal Sensitivity
 - Medium-High Faunal Sensitivity
 - Wetland

Scale: 1:55 000
 Projection: LO27_WGS1984
 Map ref#: Tshivhaso_Environmental Sens map _05.09.16



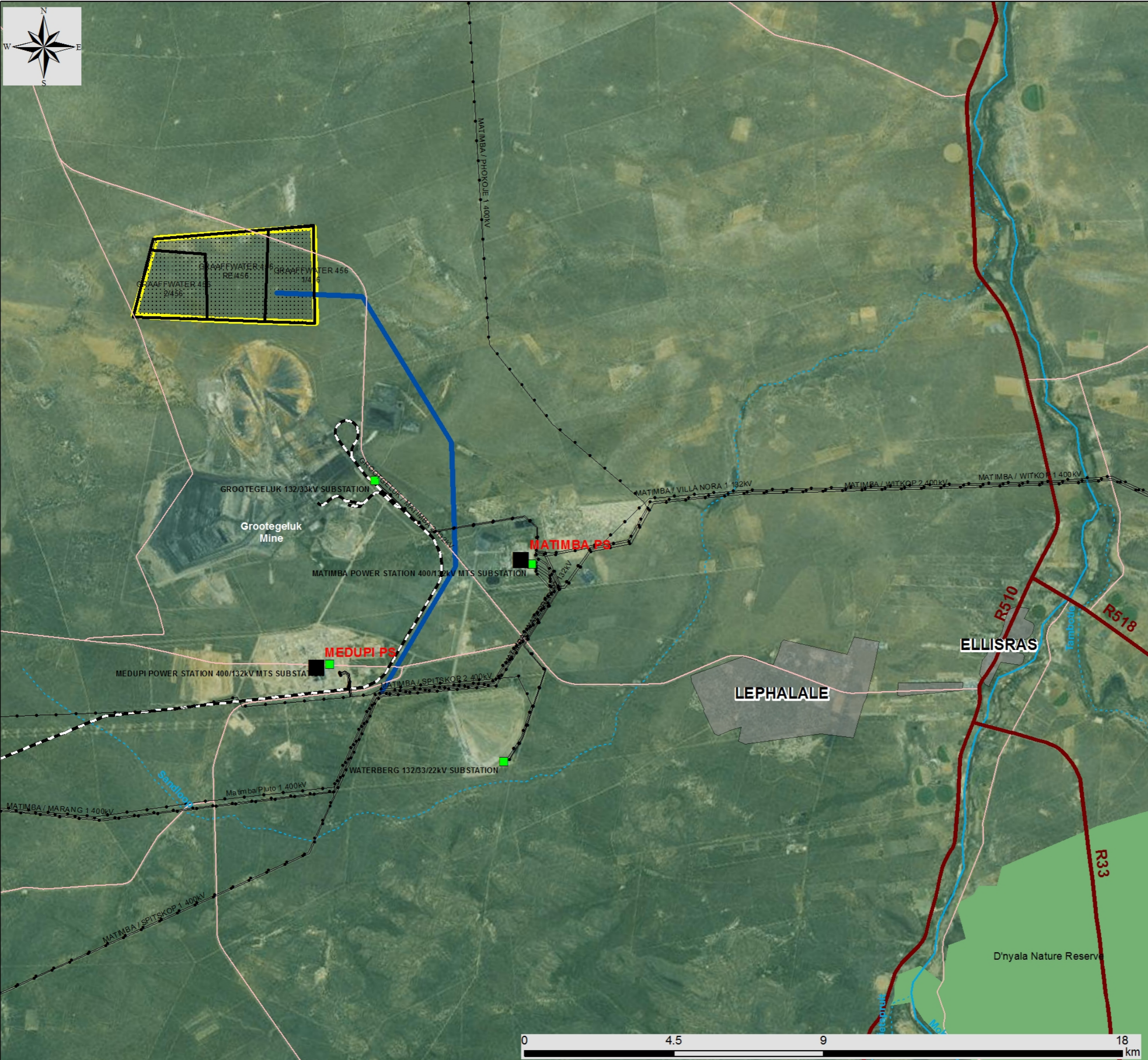


Proposed Tshivhaso Power Station near Lephalale

Locality Map

Legend

- Power Station
- Eskom Substation
- Eskom Power Line
- Railway Line
- Regional Road
- Main Road
- Perennial River
- Non-Perennial River
- Affected Farms
- Grid Connection Option:**
- Matimba-Medupi Loop-In
- Ash-Dump and Power Station Options:**
- Ash-Dump Alternative
- Power Station Alternative Site 1



Scale: 1:112 000
 Projection: LO27_WGS1984
 Map ref#: Tshivhaso_Locality map_09.10.15

