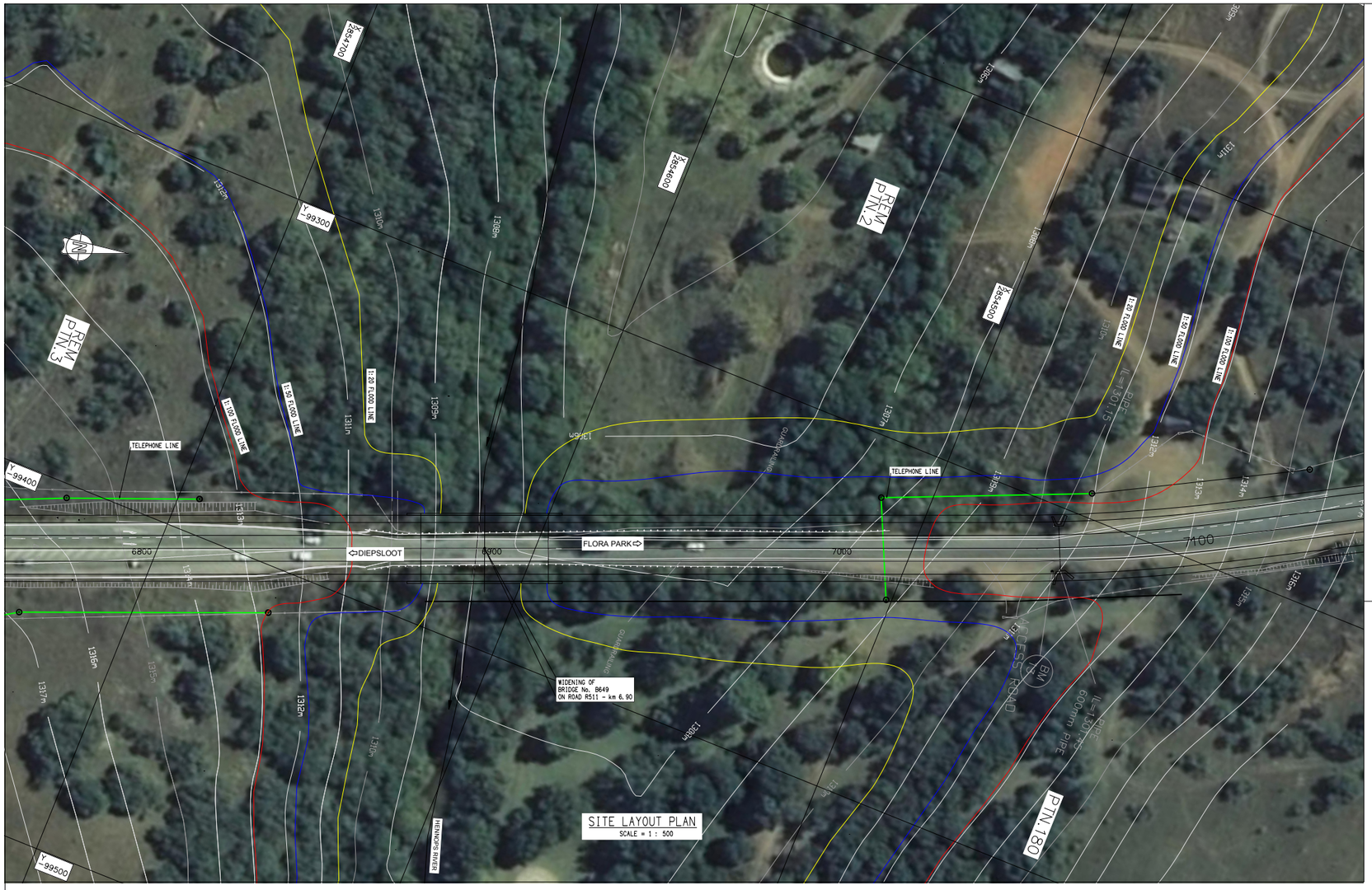
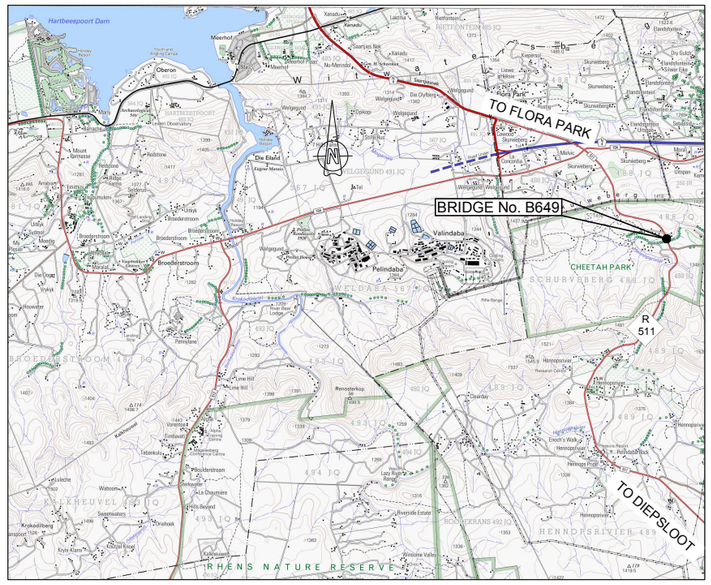


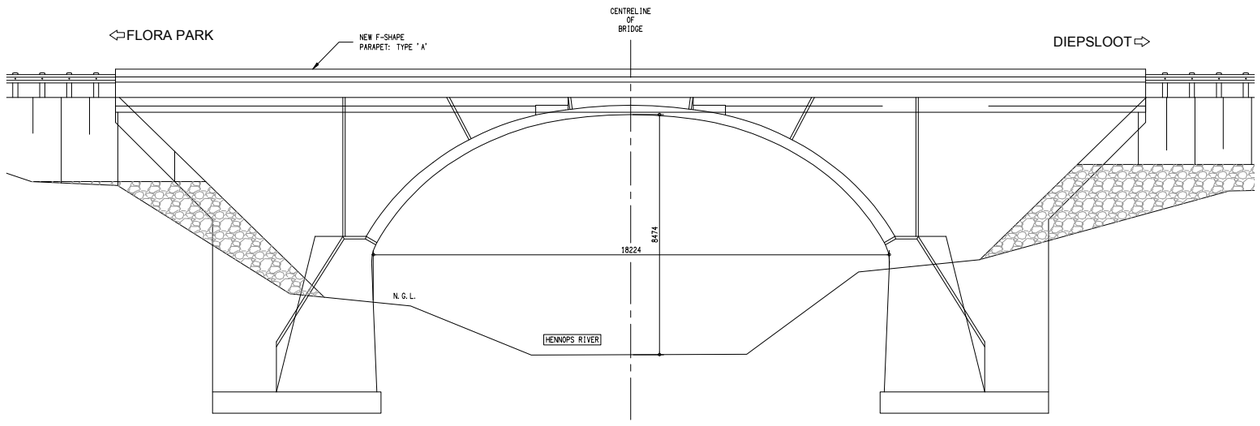
SITE LAYOUT PLAN
SCALE = 1 : 500



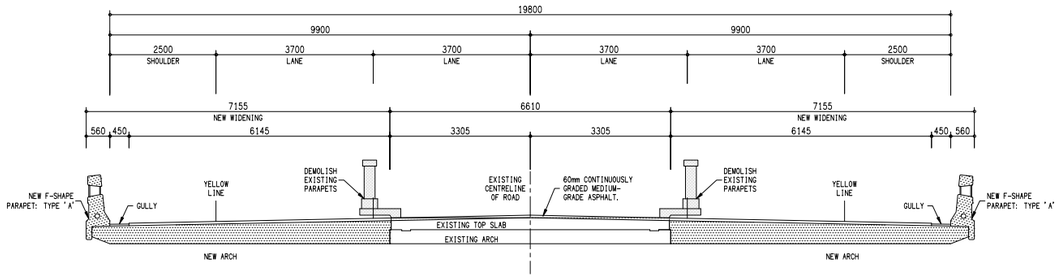
KEY PLAN
n. t. s.

HYDROLOGICAL DATA		
VARIABLE	VALUE	UNIT
EFFECTIVE CATCHMENT AREA	958.000	km2
20 YEAR FLOOD	278.000	m3/s
DESIGN FLOOD RECURRENCE INTERVAL FOR FREEBOARD TO DECK SOFFIT	50.000	years
DESIGN FLOOD (QT) FOR FREEBOARD TO DECK SOFFIT	410.000	m3/s
DESIGN FLOOD (Q2T) FOR FREEBOARD TO SHOULDER BREAKPOINT	518.000	m3/s
DESIGN FLOOD LEVEL (QT)	1311.930	m
DESIGN FLOOD LEVEL (Q2T)	1312.931	m
NATURAL DESIGN FLOW DEPTH	5.931	m
DESIGN FLOW VELOCITY	3.737	m/s
REQUIRED MINIMUM FREEBOARD TO DECK SOFFIT	0.778	m
ACTUAL DESIGN FREEBOARD TO DECK SOFFIT	0.269	m

NOTE:
FLOOD LINES ESTIMATED FROM GENERAL
LAYOUT PLAN FOR BRIDGE 637
DRAWING NO. B70/1378



ELEVATION
SCALE = 1 : 75



TYPICAL SECTION AT CROWN
SCALE = 1 : 50

FOR DISCUSSION PURPOSES ONLY

REVA	2016-11-22	ISSUED FOR COMMENTS
Nr. No.	DATUM DATE	WYSIGINGS / ADMENDMENTS

ns HOOF VAN DEPT. for HEAD OF DEPT. — DATUM DATE

OPGEMEET DEUR SURVEYED BY — HANDTEK./ SIGNTR. — DATUM / DATE

ADJ. DIR. TEG.DIENSTE DEP. DIR. TECH. SERVICES OPMETING / SURVEY — DATUM / DATE

ONTWERP DEUR DESIGNED BY: KBK Engineers (Pty) Ltd

ONTWERP/DESIGNED — GETEKEN/DRAWN — NAGESIEN/CHECKED

GOEDGEKEUR / APPROVED: for CONSULTING ENG. — DATUM DATE: ns HOOF VAN DEPT. for HEAD OF DEPT. — DATUM DATE:

DEPARTEMENT VAN PAAIE EN VERVOER | GPDRT | DEPARTMENT OF ROADS AND TRANSPORT

REHABILITATION OF EIGHT SELECTED BRIDGES IN TSHWANE REGION WITHIN THE GAUTENG PROVINCE
ENVIRONMENTAL IMPACT ASSESSMENT

roads and transport — Department: Roads and Transport — GAUTENG PROVINCE

SKAAL / SCALE: HOR. AS SHOWN — VERT. AS SHOWN

LEER Nr. /FILE No.

OOREENKOMS Nr. AGREEMENT No. DRT 05/05/2015

DISTRIK / DISTRICT

PAD Nr. /ROAD No. R511

BRIDGE No./BRUG Nr. BRIDGE NO. P249_01N_B649

PLAN Nr. /PLAN No. KBK/3221/B649/EIA