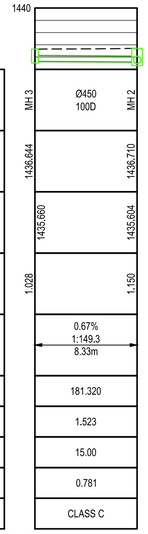
NGL – – – – –

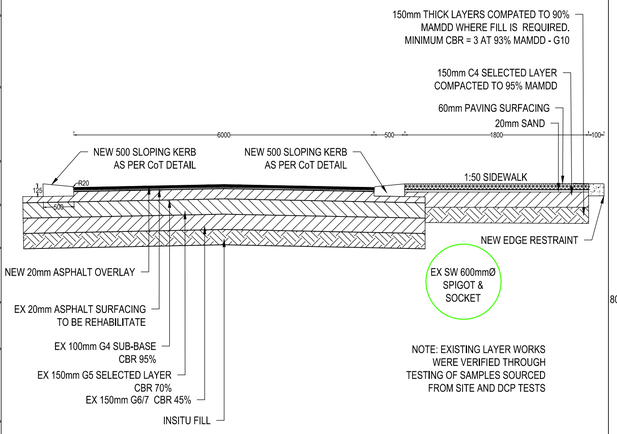
SCALES:
Horizontal 1:250
Vertical 1:250

DATUM 1435.000

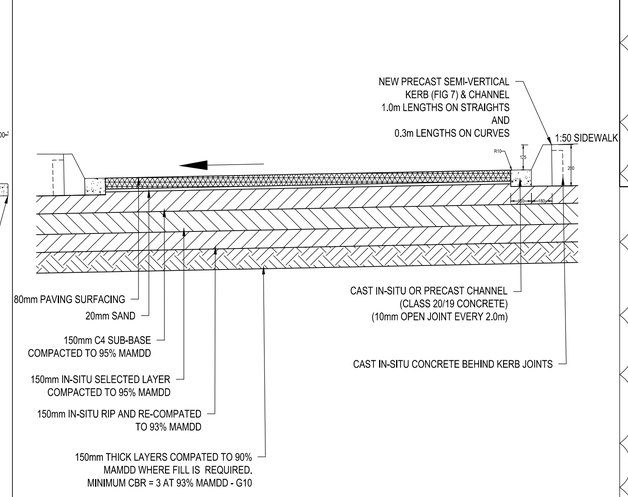


REFERENCE		MH 3 Ø450 100D MH 2
GROUND LEVEL		1438.644 / 1436.710
PIPE INVERT LEVEL		1435.660 / 1435.604
DEPTH TO INVERT		1.028 / 1.150
SLOPE / LENGTH		0.67% 1:149.3 8.33m
CAPACITY	Q(l/s)	181.320
CAPACITY VELOCITY	V(m/s)	1.523
DESIGN FLOW	Q(l/s)	15.00
DESIGN VELOCITY	V(l/s)	0.781
BEDDING (Description)		CLASS C

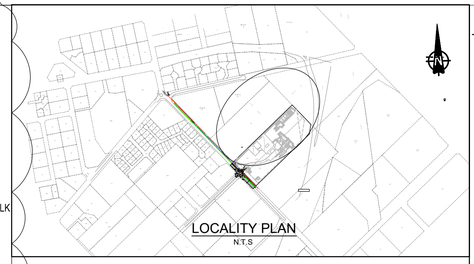
LONGSECTION SW ROAD CROSSING
FROM 0.000 TO 8.328



TYPICAL SECTION 1-1
SCALE: NTS



TYPICAL SECTION 2-2
SCALE: NTS



NOTES AND SPECIFICATIONS

GENERAL

1 ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.

2 ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)

3 DO NOT SCALE FROM THIS DRAWING.

4 ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.

5 ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD CTMM DETAIL DRAWINGS

6 THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE ARCHITECT DRAWINGS. (IF APPLICABLE)

7 THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.

8 THE SIGNATURE OR INITIALS ON THIS DRAWING, OF ANY MANAGER OF THEROADS & TRANSPORT DEPARTMENT, IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.

9 THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE ROADS & TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.

10 FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

STORMWATER

1 MINIMUM PIPE DIAMETER TO BE 450mm.

2 MINIMUM FALL TO BE 1:150.

3 PIPE BEDDING TO BE CLASS B UNLESS OTHERWISE SPECIFIED.

4 ALL EXCAVATIONS AND BEDDING MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE LAYING OF ANY PIPES.

5 CLEAN EXISTING STORMWATER INLETS AND REPAIR WHERE NECESSARY.(IF APPLICABLE)

ROADS:

1 KERBING TO BE AS PER STANDARD DETAIL PLANS A AND B AND SECTION 10 OF VOLUME 1 OF CONTRACT DOCUMENT.

2 TRAFFIC CONTROL MUST COMPLY WITH THE REQUIREMENTS OF THE SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL (THIRD EDITION).

3 VERTICAL AND HORIZONTAL ALIGNMENT TO FOLLOW THE EXISTING ROAD SURFACE, WITH A MINIMUM CROSS FALL OF 2 % (IF APPLICABLE)

LEGEND: STORMWATER

PROPOSED: EXISTING:

STORMWATER LINE
MANHOLE (MH)
JUNCTION BOX (JB)
KERB INLET (KI)
FIELD INLET (FI)

CATCHPIT LENGTH
4/2/2
TRANSITION LENGTH
CATCHPIT LENGTH
TRANSITION LENGTH

ABBREVIATIONS: STORMWATER

SW	STORMWATER
JB	JUNCTION BOX
MH	MANHOLE
FI	FIELD INLET (FI)
GI	GRID INLET

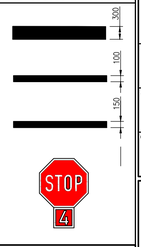
LEGEND: ROADS

EXISTING PAVING
NEW PAVING
NO KERBING
MOUNTABLE KERBING
SEMI VERTICAL KERBING

LEGEND: SERVICES

EXISTING TELECOMS SLEEVES
EXISTING DATA SLEEVE
EXISTING DATA SLEEVE

ROAD MARKINGS AND SIGNS DETAILS



CATCHPIT DETAILS (KI 1 & 2)

(SEMI-VERTICAL KERB BOTH SIDES)

UPSTREAM CATCHPIT TRANSITION	- 4m
CATCHPIT LENGTH	- 2m
DOWNSTREAM CATCHPIT TRANSITION	- 2m

AMENDMENTS

NR.	DATE	APPROVED	DESCRIPTION	PAR.
3	22/08/24		FINAL SUBMISSION FOR CONSTRUCTION	
2	13/08/24		ROAD MARKINGS AND PEDESTRIAN CROSSING DETAILS AMENDED	
1	07/08/24		LS FROM FI TO MH1 ADDED	
0	31/07/24		FOR CONSTRUCTION	

DESIGNED	DRAWN
DC_SARJOO	DC_SARJOO
SIGNATURE DATE: 22/08/24	SIGNATURE DATE: 22/08/24
DESIGN CHECKED BY: JL_DUPLESSIS	INFRASTRUCTURE: TECHNICAL INFORMATION MANAGEMENT S.H. AUDIE
SIGNATURE DATE: 13/08/24	SIGNATURE DATE:

PROJECT STATUS

CONCEPT DRAWING | TENDER DRAWING | APPROVED FOR CONSTRUCTION DRAWING | AS BUILT DRAWING

PROJECT ENGINEER (CONSULTANT)		
JL DU PLESIS	20110307	22/08/24
INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE
PROJECT ENGINEER (CITY OF TSHWANE)		
INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE
STRUCTURAL ENGINEER (CITY OF TSHWANE)		
INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE
OFFICIAL REPRESENTATIVE (CITY OF TSHWANE):		
INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE

CONSULTANT DETAIL

inani™ building future value

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

GROUP HEAD
Mr Letlonkane P. (Pheko)
P.O. BOX 1409
PRETORIA
0001

DIVISIONAL HEAD
Mr Tlhagale M.K.P. (Mavern)
P.O. BOX 1409
PRETORIA
0001

DRAWING APPROVED BY DIVISIONAL HEAD
Mr Tlhagale M.K.P. (Mavern)
SIGNATURE: DATE:

LOCATION OF PROJECT:

CLUBVIEW_EXT_112

DESCRIPTION OF PROJECT

EXEMPLAR_EXTERNAL_R&SW

WL2324-0440

CONTRACT No. : -	PROJECT No. : C1960	
DATE : 22.08.2024	SCALE : AS_SHOWN	ORIGINAL PAPER SIZE: A1
DRAWING NO. C1960-SA100	SHEET NO: 1OF1	REVISION 3

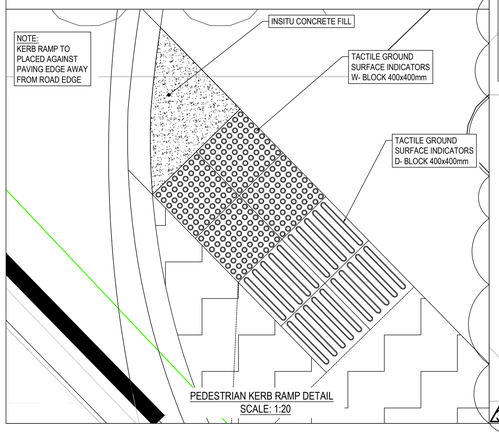
NGL – – – – –

SCALES:
Horizontal 1:250
Vertical 1:250

DATUM 1430.000

REFERENCE		FIELD INLET Ø450 75D MH1
GROUND LEVEL		1436.264 / 1436.208
PIPE INVERT LEVEL		1434.911 / 1434.699
DEPTH TO INVERT		1.397 / 1.553
SLOPE / LENGTH		3.28% 1:30.5 6.46m
CAPACITY	Q(l/s)	500.8
CAPACITY VELOCITY	V(m/s)	2.9
DESIGN FLOW	V(l/s)	183
DESIGN VELOCITY	V(l/s)	2.8
BEDDING (Description)		CLASS C

LONGSECTION CONNECTION TO MH1
FROM 0.000 TO 6.459



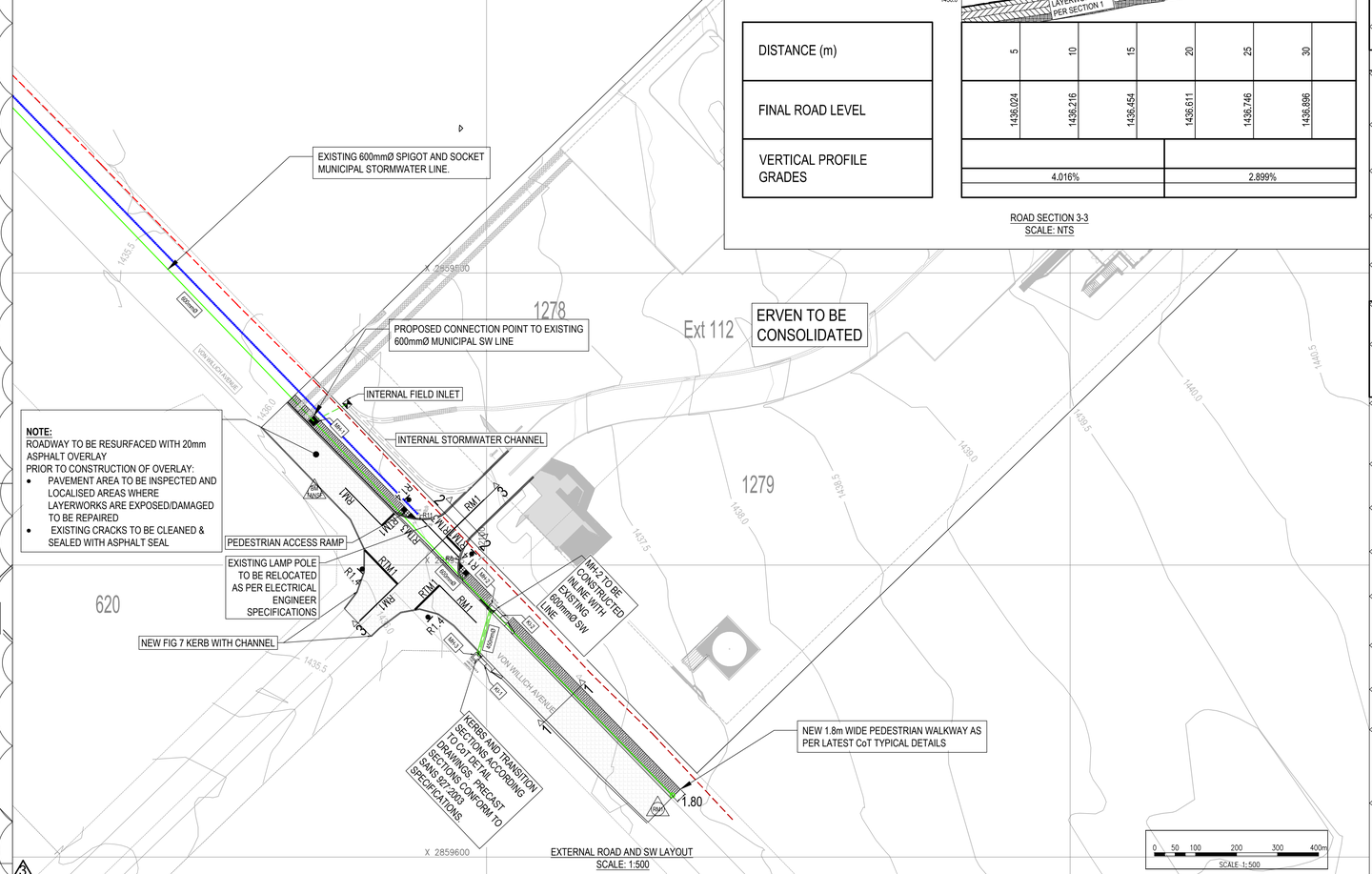
PEDESTRIAN KERB RAMP DETAIL
SCALE: 1:20

EXISTING ROAD
NEW ROAD LEVEL

SECTION 3
(Vertical Exaggeration = 1:4)
Vertical Scale = 1:62.5
Horizontal Scale = 1:250

DISTANCE (m)	5	10	15	20	25	30
FINAL ROAD LEVEL	1436.024	1436.216	1436.454	1436.611	1436.746	1436.896
VERTICAL PROFILE GRADES	4.016%			2.899%		

ROAD SECTION 3-3
SCALE: NTS



EXTERNAL ROAD AND SW LAYOUT
SCALE: 1:500

G:\MYDRIVE\C1960(CLUB_VIEW)\C1960-01(SUB-PROJECT)\C.TECHNICAL\4.DRAWINGS\F.SW