



THEMBISILE HANI LOCAL MUNICIPALITY



CONSTRUCTION OF MOLOTO SOUTH BUS ROUTE

SITE INFORMATION

SITE INFORMATION

4.1 Compulsory Site Inspection.

The bidder shall inform him/herself on the nature of the site and inspect the site.

The Employer will consider a bid only if the site inspection and/or bidder's meeting arranged by the Employer has been attended by a representative who must;

- Be suitably qualified to comprehend the implications of the work involved and
- Be the bidder him/herself or a person in the direct employ of the bidder.

It is envisaged that there is existing services present underground such as water line and electrical cable that need to be taken care off. It is the Contractors responsibility to ensure that those services are not damaged.

Should the services be damaged, it will be fixed at the Contractor's expense.

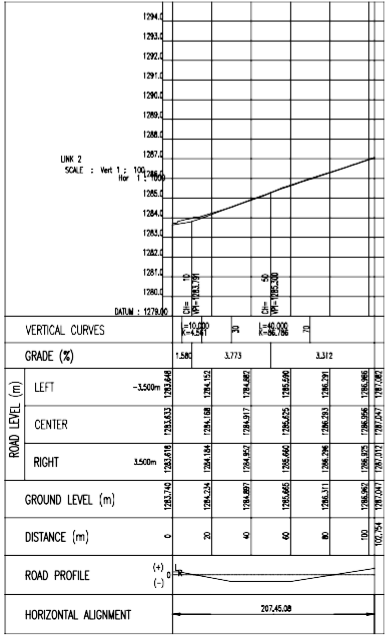
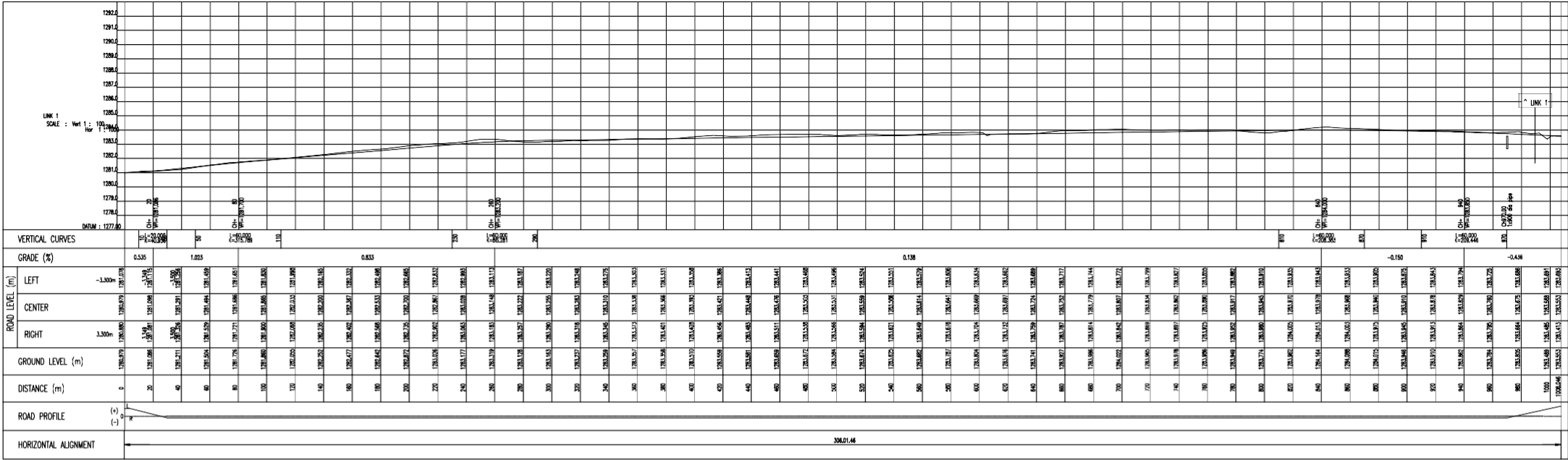
4.2 Site Location.

No	Village name	Ward
1	Moloto South	1

MOLOTO SOUTH WARD 1

LIST OF DRAWINGS

DESCRIPTION	DRAWING REFERENCE
SITE LAYOUT AND SETTING OUT DETAILS	003-18-01
LONGITUDINAL SECTION FOR LINK 1 AND LINK 2	003-18-02
CROSS SECTIONS FOR LINK 1 AND CROSS SECTION FOR CULVERT AT CH 970	003-18-03
CROSS SECTIONS FOR LINK 2	003-18-04
TYPICAL ROAD DETAILS	003-18-05
TYPICAL STORMWATER DETAILS	003-18-06
TYPICAL ROAD MARKINGS DETAILS	003-18-07
ROAD MARKINGS AND ROAD SIGN LAYOUT	003-18-08
SIGN BOARD DETAILS	003-18-09



No	DATE	AMENDMENTS	HEAD OF DEPT.

PROJECT
MOLOTLO SOUTH WARD 1
UPGRADING BUS ROUTE

DESIGNED BY

DESIGNED BY
CHECKED BY
DRAWN BY
CHECKED BY

DESIGN APPROVED

IN CHARGE ENGINEER
DATE

APPROVED BY

IN CHARGE ENGINEER
DATE

TITLE
LONGITUDINAL SECTIONS
FOR LINK 1 AND LINK 2

THEMBISILE HANI
LOCAL MUNICIPALITY

FILE NO
003-18

PROJECT NO
003-18-02

SCALE

AS SHOWN

FILE NO

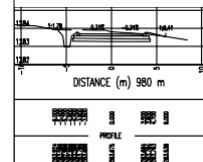
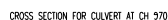
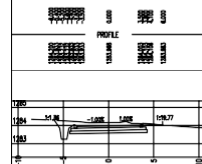
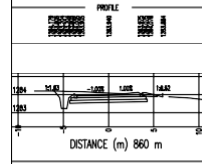
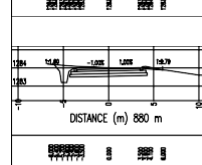
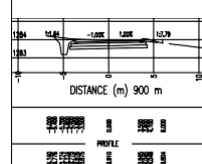
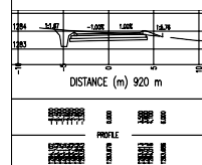
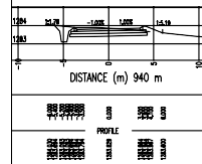
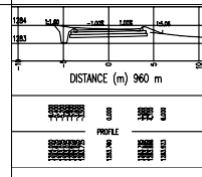
003-18

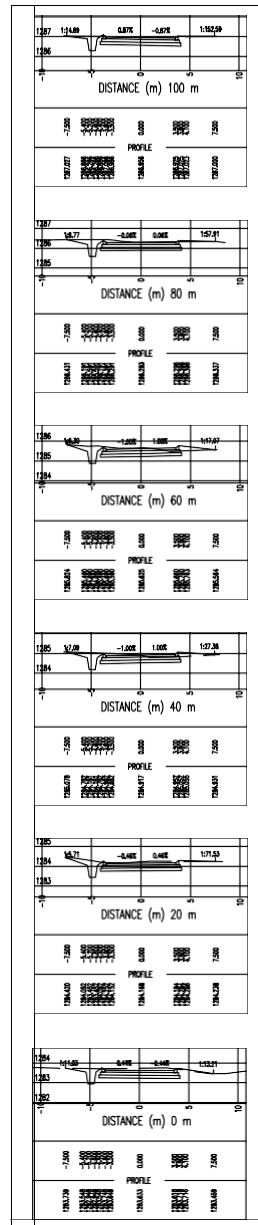
DISTRICT
KWAMHLANGA

AGENT
THLM

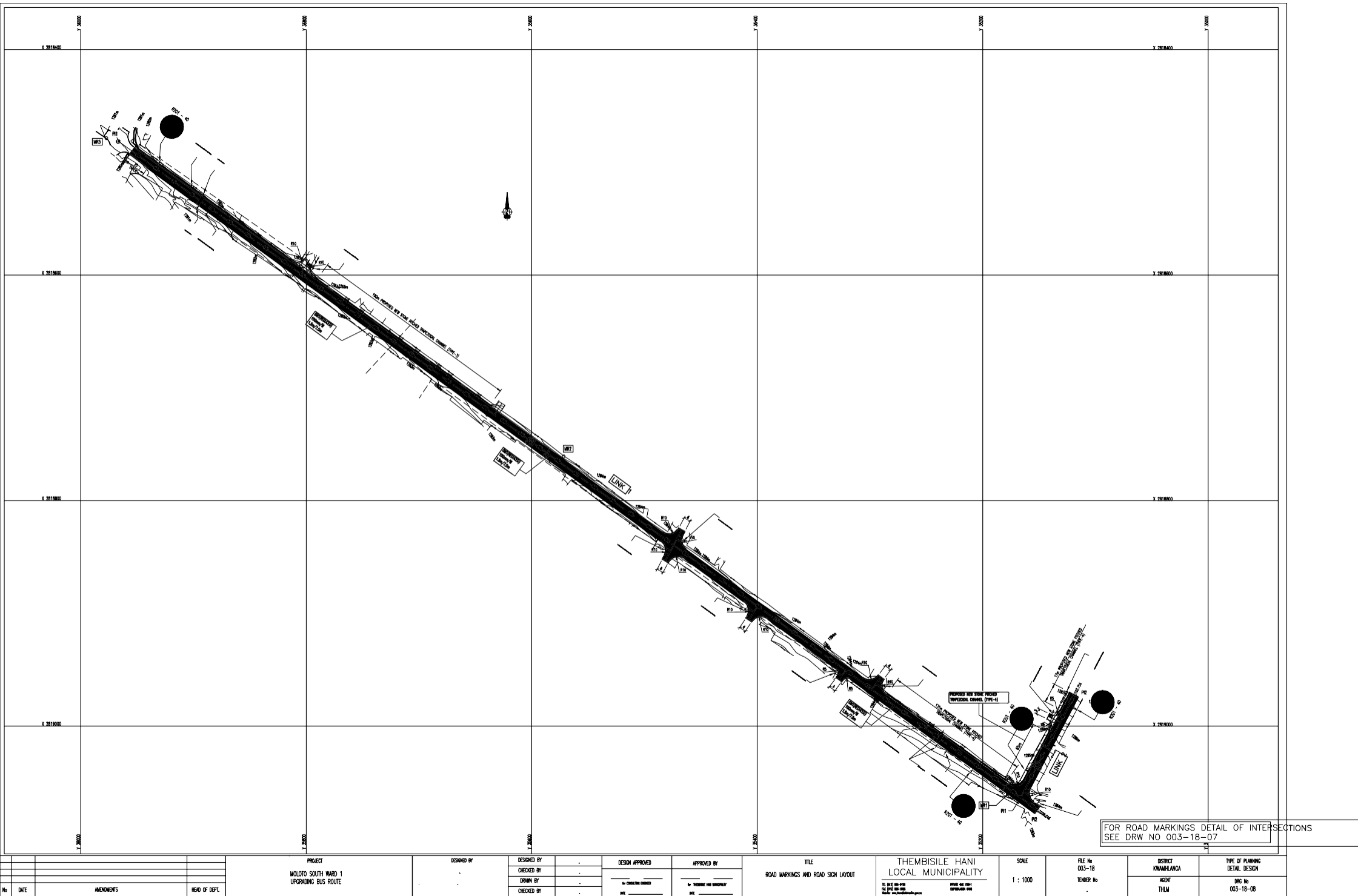
TYPE OF PLANNING
DETAIL DESIGN

DWG NO
003-18-02

[illegible]



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				MOLOYO SOUTH WARD 1 UPGRADING BUS ROUTE				CHECKED BY						CROSS SECTIONS FOR LINK 2				HOR 1:200 VERT 1:100		TENDER No :		AGENT THLM		DRG No 003-18-04	
No	DATE	REVISIONS		HEAD OF DEPT.				DRAWN BY		IN CHARGEING ENGINEER		FOR THEMBISILE HANI MUNICIPALITY													
								CHECKED BY		DATE		DATE													



No	DATE	AMENDMENTS	HEAD OF DEPT.

PROJECT
MOLOTO SOUTH WARD 1 UPGRADING BUS ROUTE

DESIGNED BY	
CHECKED BY	
DRAWN BY	
CHECKED BY	

DESIGN APPROVED	APPROVED BY
By CONSULTING ENGINEER	By TRAINING AND SUPERVISORY
DTC	DTC

TITLE
ROAD MARKINGS AND ROAD SIGN LAYOUT

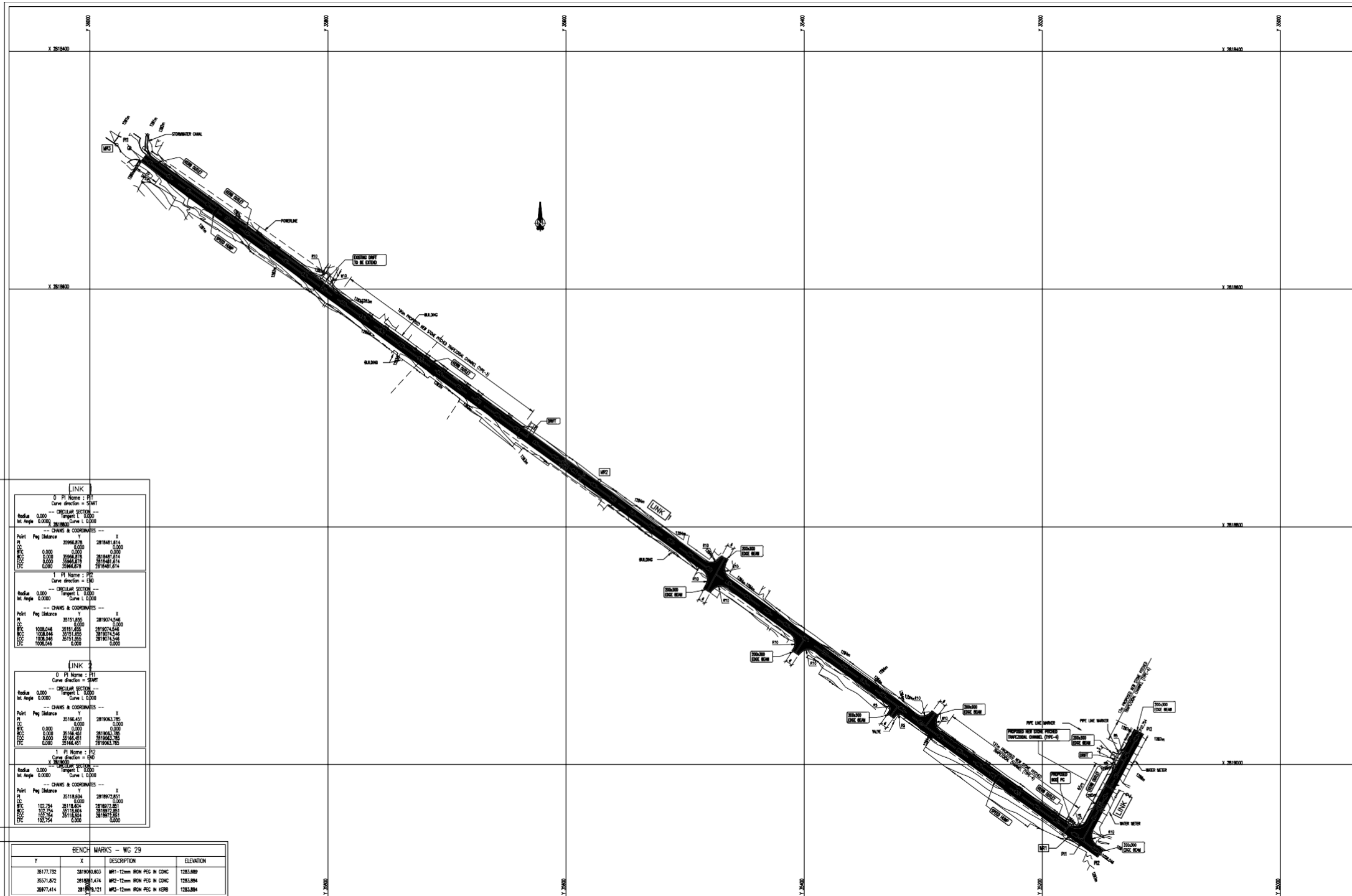
THEMBISILE HANI LOCAL MUNICIPALITY
16, 18/19 000-000 16, 18/19 000-000 16, 18/19 000-000

SCALE
1 : 1000

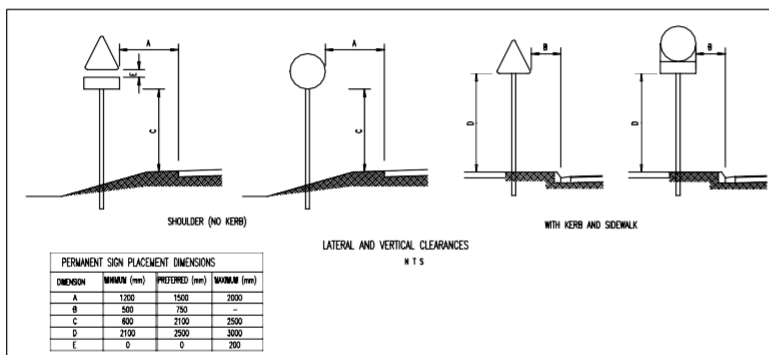
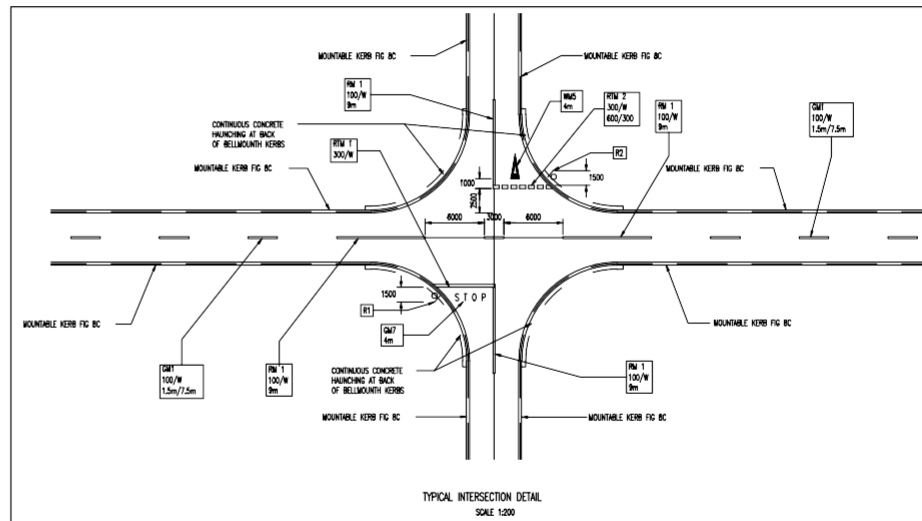
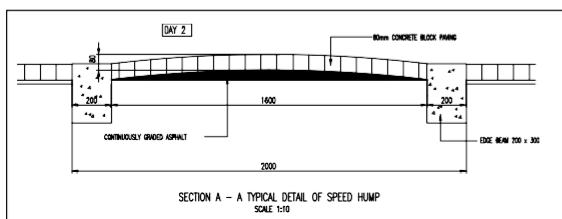
FILE No	003-18
TENDER No	

DISTRICT	KWAMHLANGA
AGENT	THLM

TYPE OF PLANNING	DETAIL DESIGN
DRG No	003-18-08



PROJECT		DESIGNED BY	DESIGNED BY	DESIGN APPROVED	APPROVED BY	TITLE SITE LAYOUT AND SETTING OUT DETAILS	THEMBISILE HANI LOCAL MUNICIPALITY	SCALE 1 : 1000	FILE No 003-18	DISTRICT KWAMHLANGA	TYPE OF PLANNING DETAIL DESIGN
MOLOTO SOUTH WARD 1 UPGRADING BUS ROUTE			CHECKED BY								
			DRAWN BY	by CONTRACTOR	by THEMBISILE HANI MUNICIPALITY						
No	DATE	AMENDMENTS	HEAD OF DEPT.	CHECKED BY	DATE		PROJECT NO 003-18-001		TENDER No	AGENT THLM	DRG No 003-18-01



SIGN SIZES	
REFERENCE	SIZE (mm)
R1	800
R2	900

NOTE:

1. ALL GWT SYMBOLS (ROAD MARKINGS) TO BE 4in LONG.
2. GENERAL:
 - 1. ALL ROAD MARKINGS AND ROAD SIGNS TO CONFORM TO THE REQUIREMENTS OF THE SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL.
 - 2. ROAD MARKINGS ON ROADS UNDER LOCAL OR PROVINCIAL AUTHORITY, TO APPROVAL OF RELEVANT AUTHORITY/AND TO CONFORM TO SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL.
 - UPPER ROAD 1in or LOWER ROAD 1/2in.
 - 3. WHERE EXISTING ROAD MARKINGS ARE IN CONFLICT WITH NEW MARKINGS, THE OLD MARKINGS MUST FIRST BE REMOVED (SAND BLASTED) BEFORE THE APPLICATION OF THE NEW MARKINGS.
3. ALL MARKINGS TO BE CHECKED AT PRE - MARKING STAGE.
4. ALL SIGNS TO BE MANUFACTURED AND ERRECTED ACCORDING TO THE STANDARDS AS CONTAINED IN THE SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL.
5. ALL ROAD MARKINGS TO BE PAINTED WITH RETRO-REFLECTIVE ROAD MARKING.

KEY TO ROAD MARKINGS / ROAD SIGNS

REGULATORY	
RTM1	STOP LINES
RTM2	YIELD LINES
RM1	NO OVERTAKING LINE
RM3	CHANNELISING LINE
RM4.1	LEFT EDGE LINE
RM4.2	RIGHT EDGE LINE
RMB	MANDATORY DIRECTION ARROWS
R1	STOP SIGN
R2	YIELD SIGN

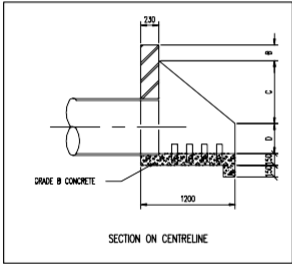
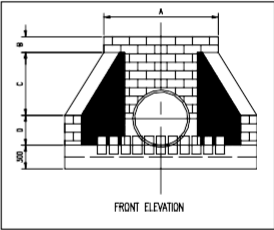
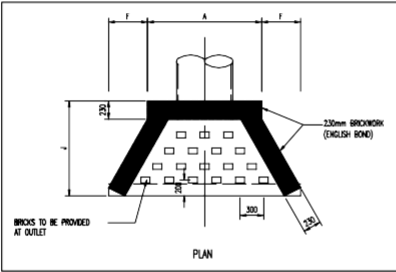
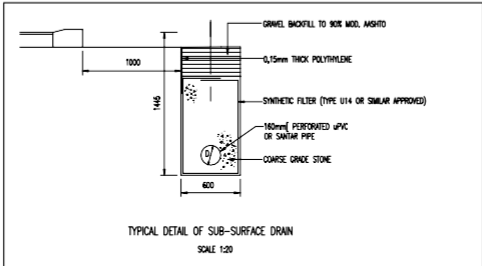
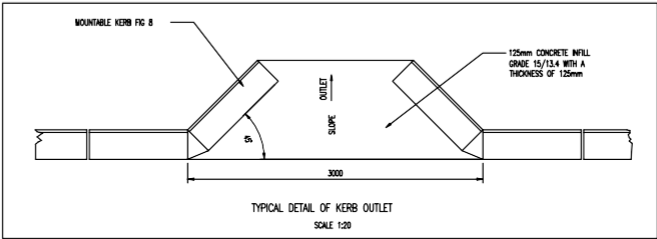
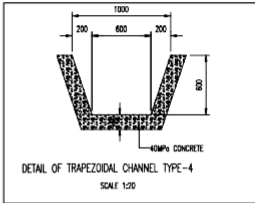
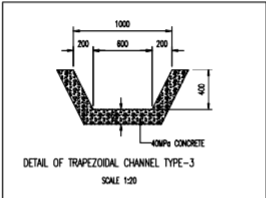
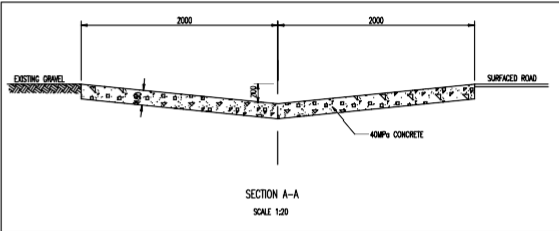
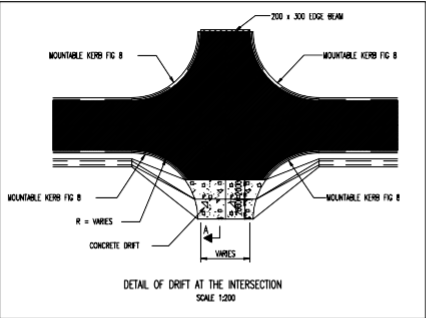
WARNING	
WM2	CONTINUITY LINES
WM3	DIVIDING LINE
WM7	MANDATORY DIRECTION ARROWS AHEAD

GUIDANCE
GM1 LANE LINE

LANE LINE MARKINGS - URBAN (9m MODULE)

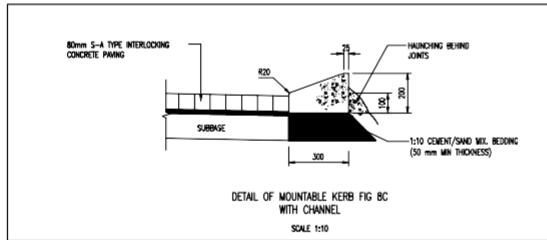
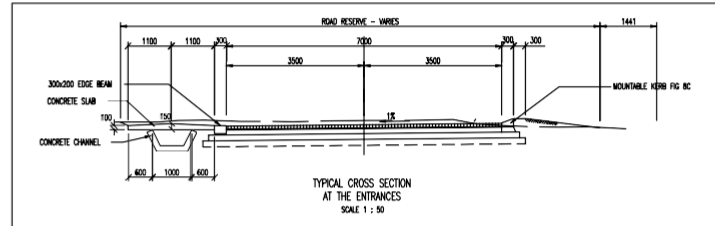
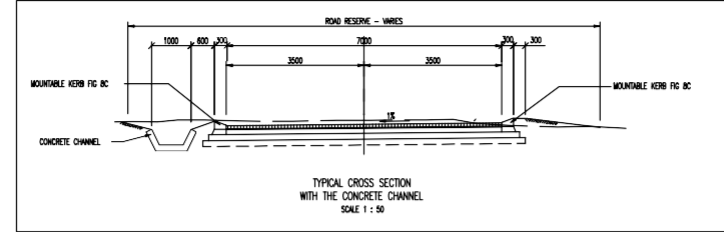
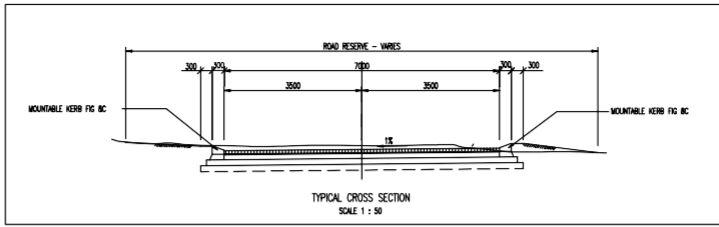
REDUCED	LINE TO GAP RATIO OF 1.5 : 7.5
STANDARD	LINE TO GAP RATIO OF 1.5 : 3.0
EXTRA - WM2	LINE TO GAP RATIO OF 1.5 : 1.5
STANDARD - WM3	LINE TO GAP RATIO OF 3.0 : 6.0

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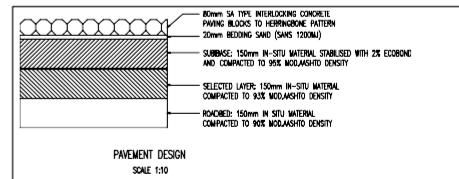
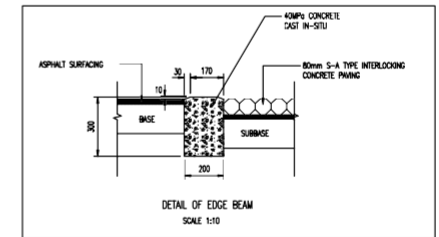
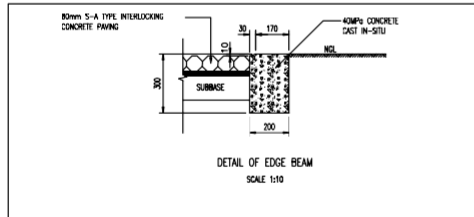


TYPICAL STORMWATER INLET AND OUTLET DETAILS
SCALE 1:25

CONCRETE GRADES										
GRADE	MIX	STONE SIZE	STONE STRENGTH	DIAMETER	A	B	C	D	E	F
A	1 : 1.5 : 3.0	20mm	20MPa	450 - 600	1150	150	650	200	405	1200
B	1 : 2 : 4	20mm	20MPa	675 - 900	1450	200	800	300	405	1200
C	1 : 3 : 6	20mm	15MPa	1050 - 1200	1800	300	1000	500	605	1500
D	1 : 4 : 8	20mm	10MPa							



HAUNCHING NOTE:
CONTINUOUS IN SITU CASTING OF HAUNCHING
BEHIND KERB ON THE CURVE



				PROJECT	DESIGNED BY	DESIGNED BY	DESIGN APPROVED	APPROVED BY	TITLE	THEMBISILE HANI LOCAL MUNICIPALITY	SCALE	FILE No 003-18	DISTRICT KWAMHLANGA	TYPE OF PLANNING DETAIL DESIGN
				MOLOTO SOUTH WARD 1 UPGRADING BUS ROUTE		CHECKED BY	IN CHARGE ENGINEER	IN CHARGE ENGINEER	TYPICAL ROAD DETAILS	FILED AND REGISTERED	AS SHOWN	TENDER No	AGENT THLM	DRG No 003-18-05
No	DATE	AMENDMENTS	HEAD OF DEPT.			CHECKED BY	DATE	DATE						