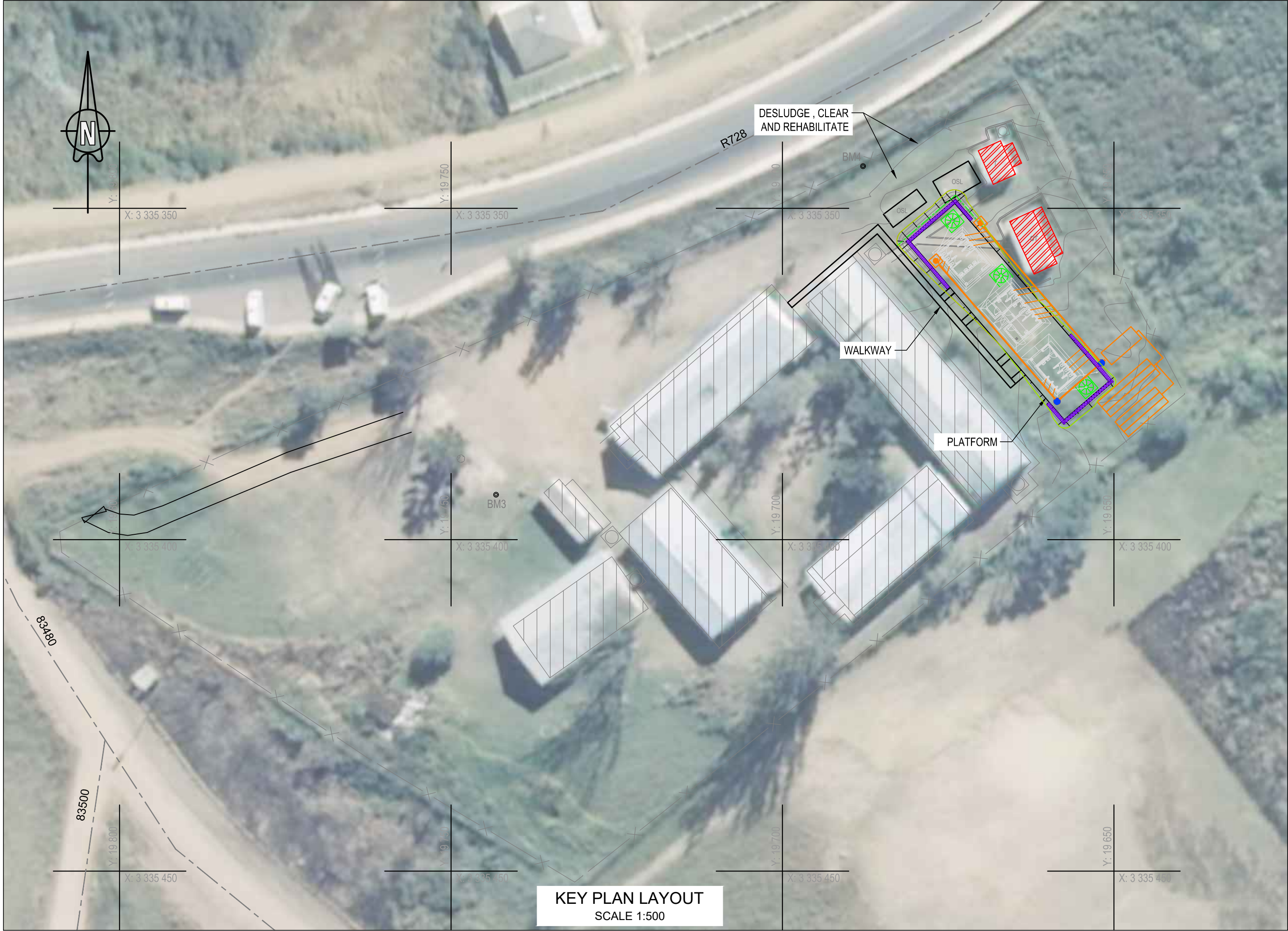
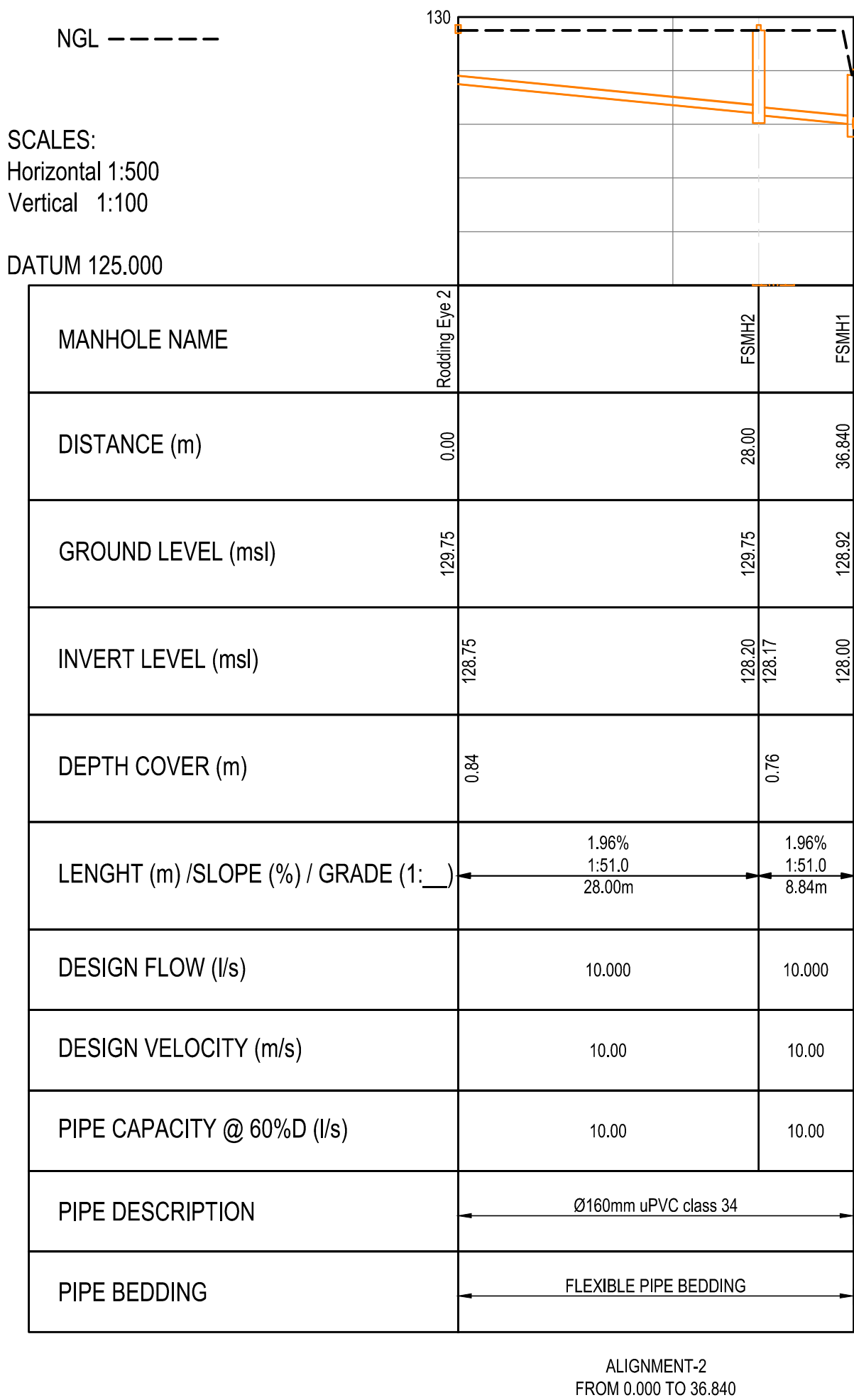
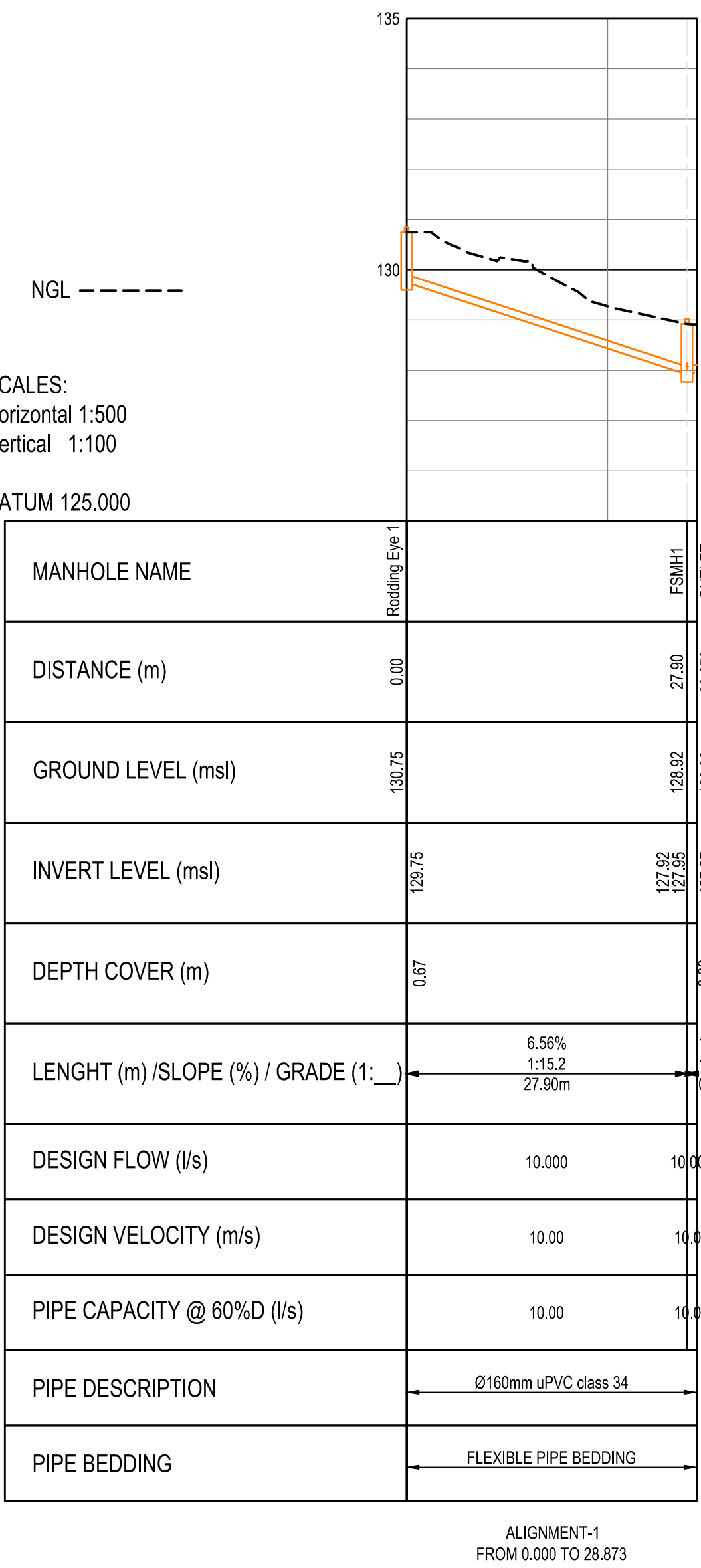
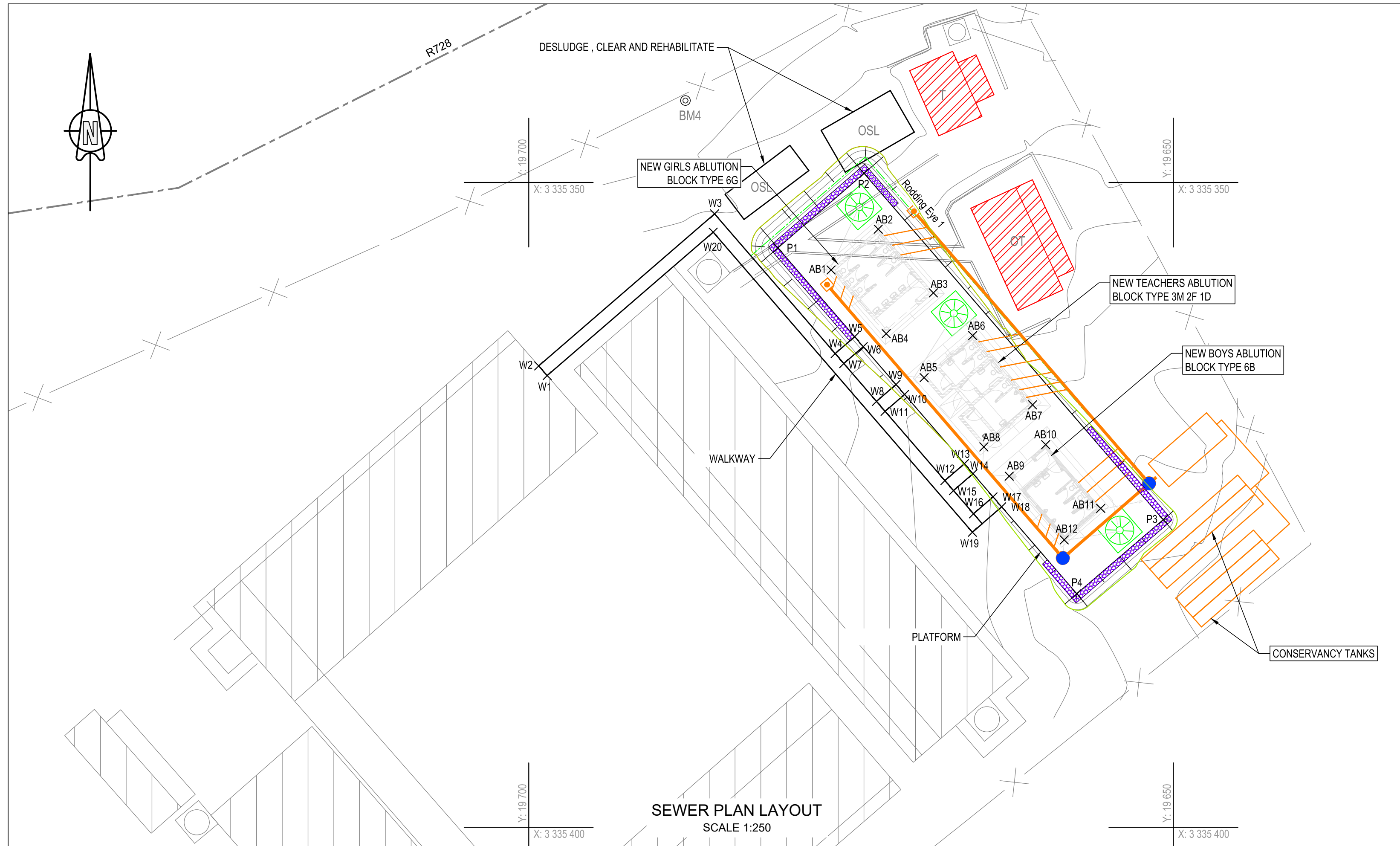
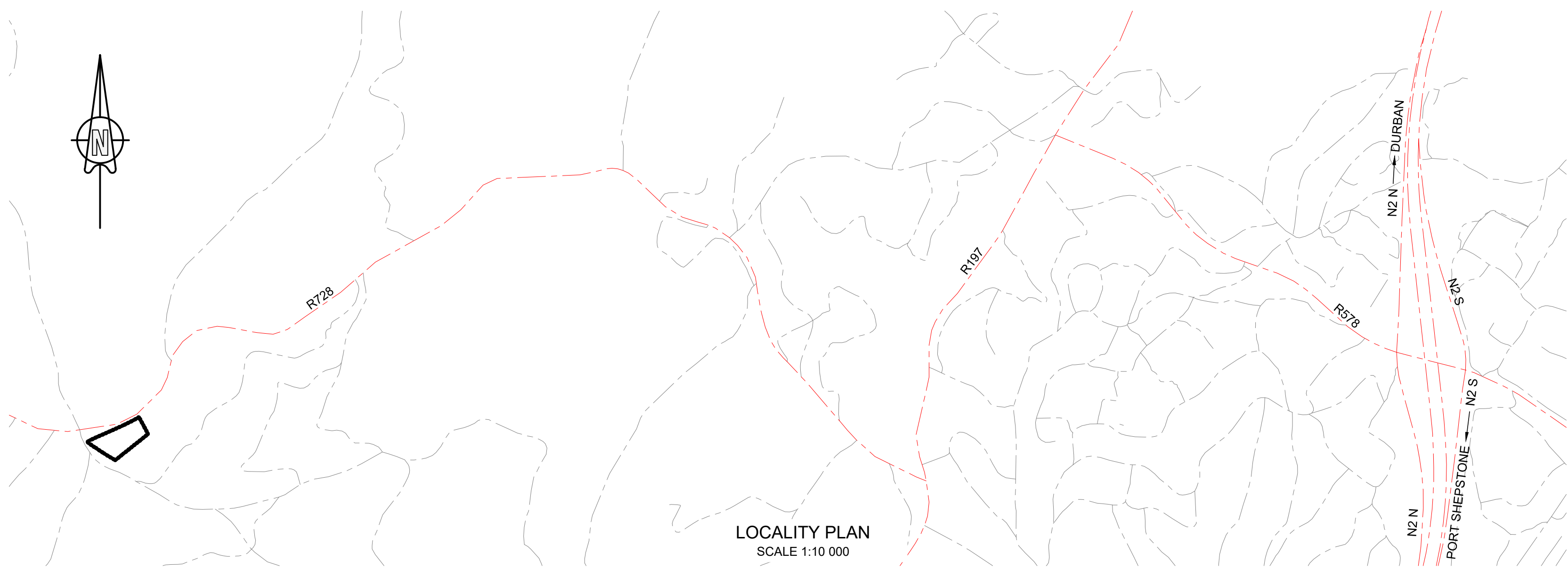




MANHOLE SETTING OUT DETAILS_COORDINATE SYSTEM WG84						
STRUCTURE NAME	Y	X	GROUND ELEVATION	INVERT ELEVATION	RIM TO SUMP DEPTH	PART AND TYPE
Rodding Eye 1	19 670.125	3 335 352.225	130.750	129.750	1.100	1m PRECAST RING MH
OUTLET	19 651.158	3 335 372.694	128.919	127.949	1.070	1m PRECAST RING MH
FSMH1	19 651.885	3 335 373.338	128.919	127.919	1.100	1m PRECAST RING MH

MANHOLE SETTING OUT DETAILS_COORDINATE SYSTEM WG84						
STRUCTURE NAME	Y	X	GROUND ELEVATION	INVERT ELEVATION	RIM TO SUMP DEPTH	PART AND TYPE
Rodding Eye 2	19 676.857	3 335 357.823	129.750	128.750	1.100	1m PRECAST RING MH
FSMH2	19 658.568	3 335 379.124	129.750	128.171	1.679	1m PRECAST RING MH
FSMH1	19 651.885	3 335 373.338	128.919	127.919	1.100	1m PRECAST RING MH

WALKWAY		
POINT	Y	X
W1	19 698.570	3 335 364.975
W2	19 699.229	3 335 364.223
W3	19 685.588	3 335 352.438
W4	19 676.234	3 335 363.285
W5	19 674.721	3 335 361.958
W6	19 674.054	3 335 362.729
W7	19 675.567	3 335 364.037
W8	19 673.031	3 335 366.973
W9	19 671.517	3 335 365.865
W10	19 670.850	3 335 366.437

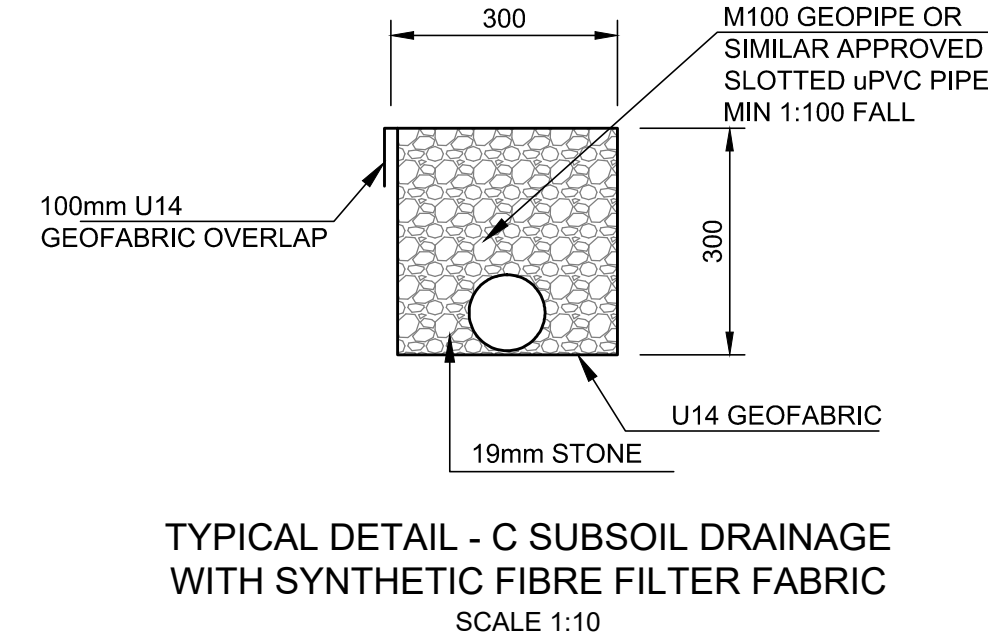
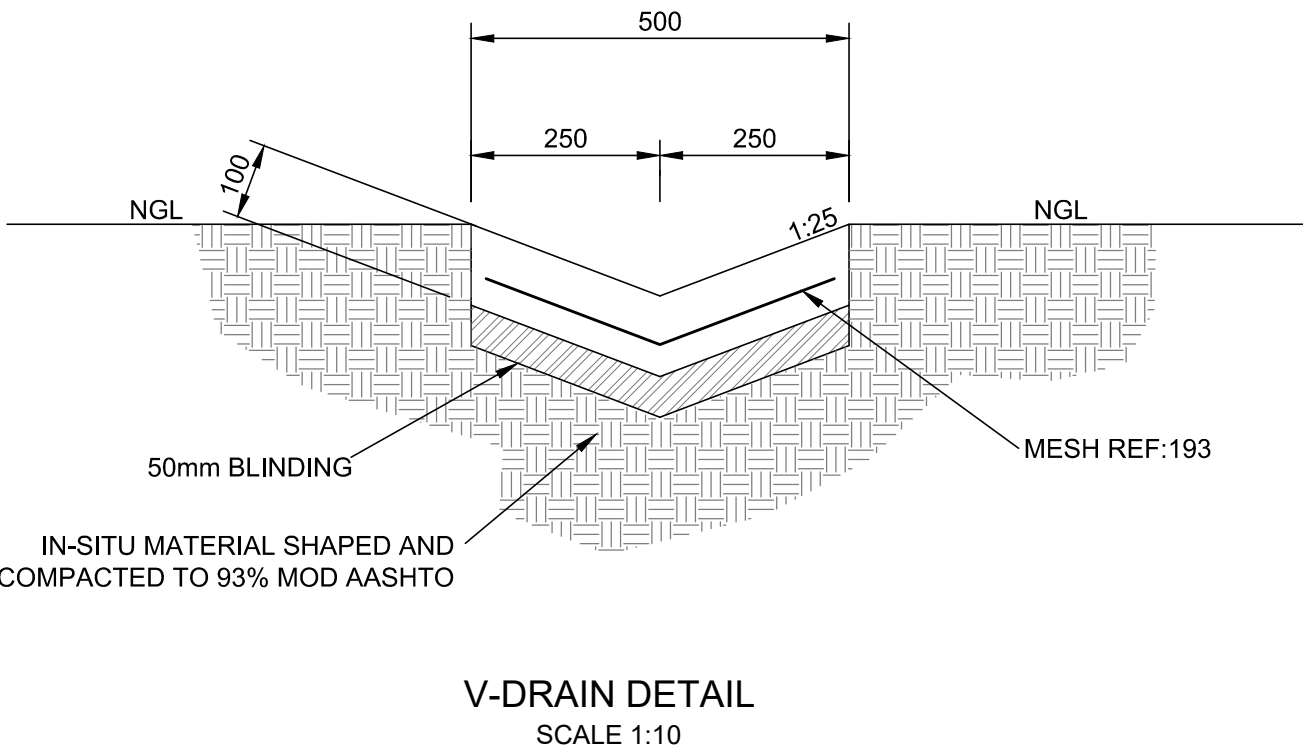
PLATFORM			
DESCRIPTION	Y	X	Z
P1	19 680.676	3 335 355.064	129.750
P2	19 673.967	3 335 349.285	129.750
P3	19 650.784	3 335 376.142	129.750
P4	19 657.494	3 335 381.897	129.750

BENCHMARKS			
DESCRIPTION	Y	X	Z
BM3	19 743.19	3 335 393.22	132.029
BM4	19 687.94	3 335 343.65	132.911

ABLUTIONS		
POINT	Y	X
AB1	19 676.548	3 335 356.783
AB2	19 672.865	3 335 353.619
AB3	19 668.616	3 335 358.560
AB4	19 672.279	3 335 361.125
AB5	19 669.337	3 335 365.130
AB6	19 665.563	3 335 361.810

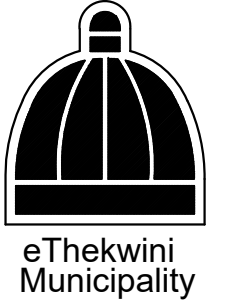
ABLUTIONS		
POINT	Y	X
AB7	19 660.922	3 335 367.242
AB8	19 664.695	3 335 370.502
AB9	19 662.734	3 335 372.773
AB10	19 659.904	3 335 370.328
AB11	19 655.635	3 335 375.269
AB12	19 658.465	3 335 377.714

- NOTE:
1. CONCRETE CHANNEL TO BE 100mm THICK USING 19/25 MPa CONCRETE.
 2. TO BE CAST IN 2.0m ALTERNATE PANELS WITH EXPANSION JOINTS AT 10m INTERVALS (EVERY 5th PANEL).
 3. CONCRETE CHANNEL TO BE REINFORCED WITH MESH REF:193
 4. MINIMUM FALL TO BE 1:100



LEGEND	
EXISTING STORM WATER	---
PROPOSED STORM WATER	---
JOJO TANK	---
EXISTING WATER MAINS	---
PROPOSED WATER MAINS	---
NEW END CAP	---
SEWER TIE IN POINT	---
WATER TIE IN POINT	---
EXISTING SEWER MAINS	---
PROPOSED SEWER MAINS	---
RETAINING WALL DETAILS	---
EXISTING STRUCTURES TO BE DEMOLISHED	---
EXISTING STRUCTURES TO BE REFURBISHED	---
EXISTING	---

DEPARTMENT OF HUMAN SETTLEMENT



DESIGN BRANCH

- NOTES
1. ALL BANKS TO BE CONSTRUCTED AT A SLOPE OF 1:2 UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND ALL TEMPORARY WORKS TO BE CONSTRUCTED AT 1:1.
 2. THE INVERT LEVELS OF ALL EXISTING MANHOLES TO BE VERIFIED/CONFIRMED ON SITE PRIOR TO START OF CONSTRUCTION
 3. LEVELS SHOWN REFLECT THE TOP OF BULK EARTHWORKS.
 4. SETTING OUT COORDINATES ARE IN WGS 84 SYSTEM.
 5. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND PROTECTING ALL EXISTING SERVICES ON SITE.
 6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE WORKS FROM SURFACE RUNOFF THAT MAY CAUSE EROSION DAMAGE USING CHANNEL, BERMS, PUMPS, etc. AS AND WHEN REQUIRED AND IS TO DIRECT GROUND WATER AWAY FROM THE WORKS.
 7. ALL DISCREPANCIES TO BE REPORTED TO THE ENGINEER

DESIGN CONSULTANT
VUVAMU PTY LTD
Project Management and Engineering Consultants

ADDRESS : 62 Old Main Road Kloof 3610
Contact Details : TEL : (031) 003 4270 FAX : (086) 003 4271 Email : info@vuvamu.co.za

FUNCTION	NAME	SIGNATURE
DESIGNED BY	A. XOZWA	
DRAWN BY	M.MTHEMBU	
DESIGN CHECKED BY	S.MBUTHUMA	
DRAWING CHECKED BY	A.XOZWA	
APPROVAL - CONSULTANT		
NAME	S.MBUTHUMA	
DATE		
SIGNATURE		
PROFESSIONAL REG NO	201830030	

SCALE	SHEET SIZE
AS SHOWN	A0

CONSTRUCTION INFORMATION	
MAINLAYER	
START DATE	
FINISH DATE	
W/O NUMBER	
LEVEL OF SERVICE	
SUPERVISOR NAME	
CONTACT NUMBER	
DATE SENT TO GIS	
GIS INFORMATION	
DATE RECEIVED	
NAME	

Rev. No.	Date	Description	Drawn
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NOTE: No construction work to commence until land and servitude acquisitions have been completed.

Acquisitions completed:

Date: Engineer:

UNDERGROUND SERVICES CHECKED -	
SERVICE	SIGNATURE
S.W DRAINS	
SEWERS	
WATERMANS	
TELKOM CABLES	
ELECTRIC CABLES	
S.A.R CABLES	
E.S.C CABLES	
OIL PIPE LINE	

NOTE: Only underground services affected by new construction are shown. Care must be taken during excavations for road foundations, trenches etc. to avoid damage to underground services such as sewers, drains, cables, watermains and connections. Wherever possible these must be located before work begins.

Contract No. XXX

Project No. S_0XXX_001

Planning Unit

Ward No.

Project Title

ETHEKWINI WATER & SANITATION
PROVISION OF WATER & SANITATION
SERVICES TO INFORMAL
SETTLEMENTS IN ETHEKWINI -
PHASE 3

Drawing Title

UMNINI PRIMARY SCHOOL
S_0XXX_001

EMIS NO. 500263995
NEW ABLUTION FACILITIES SETTING
OUT DETAILS

Drawing No. S-0XXX-001-VUV_C-102-001

Sheet 1 OF 1

Rev. TO

FOR TENDER