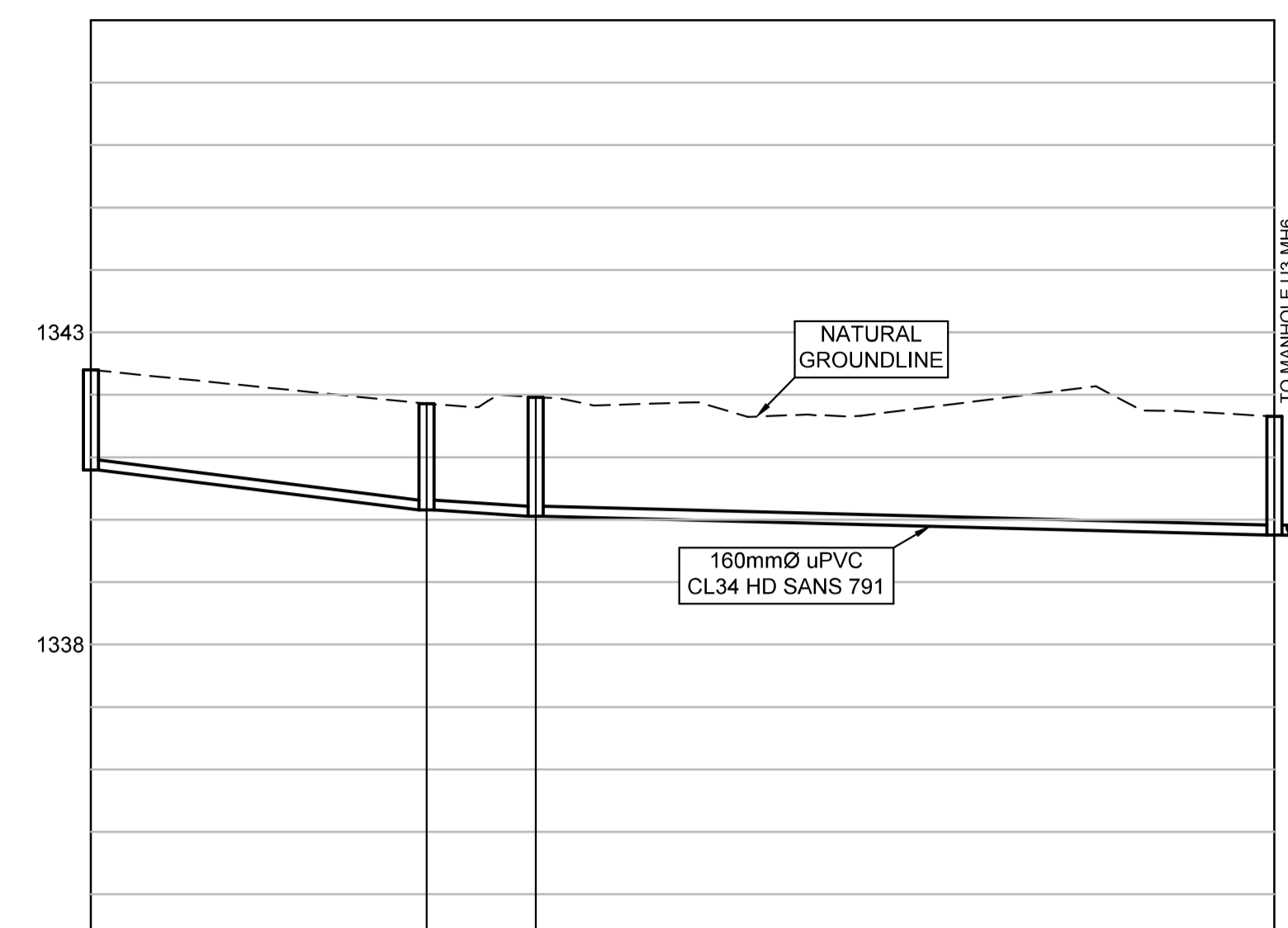


MANHOLE NO:	COVER LEVEL:	INVERT LEVEL:	DEPTH:	PIPE LENGTH & GRADE:	PIPE DETAILS:
U3-MH4.3	1343.18	1342.22	0.96	16.76 m 1:41	uPVC CL34 HD SANS 791 160 mm
U3-MH4.2	1343.22	1341.82	1.40	48.85 m 1:142	
U3-MH4.1	1343.18	1341.48	1.70	48.85 m 1:125	
MANHOLE U3-MH4.3 TO U3-MH4					



MANHOLE NO:	COVER LEVEL:	INVERT LEVEL:	DEPTH:	PIPE LENGTH & GRADE:	PIPE DETAILS:
U3-MH5.3	1342.40	1340.80	1.60	26.90 m 1:42	uPVC CL34 HD SANS 791 160 mm
U3-MH5.2	1341.86	1340.16	1.70	8.74 m 1:89	
U3-MH5.1	1341.96	1340.06	1.90	59.17 m 1:195	
MANHOLE U3-MH5.3 TO U3-MH5					

- SEWER NOTES:**
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH SABS 1200 SERIES AND THE PROJECT SPECIFICATIONS.
 - ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
 - THE CONTRACTOR IS TO CONFIRM ALL LEVELS AND SETTING OUT INFORMATION PRIOR TO CONSTRUCTION.
 - EXISTING SERVICES TO BE PROVED PRIOR TO CONSTRUCTION.
 - SURVEY AND DESIGN INFORMATION IS BASED ON THE WGS 84 CO-ORDINATE SYSTEM. FOR GRADES LESS THAN 1:10 - ANCHOR BLOCKS TO BE USED (REFER TO STANDARD DETAILS)
 - ALL MANHOLES TO HAVE MEDIUM DUTY (MD) POLYMER COVERS WITH LOCKING MECHANISM UNLESS OTHERWISE SPECIFIED.
 - ALL PIPES TO BE 160mmØ uPVC CL34 UNLESS OTHERWISE SPECIFIED.
 - ALL PIPES TO BE LAID ON FLEXIBLE PIPE BEDDING UNLESS OTHERWISE SPECIFIED.
 - ALL BACKFILL TO BE COMPACTED TO 93% Mod AASHTO UNLESS OTHERWISE SPECIFIED.
 - ALL MANHOLE COVERS WITHIN ROADWAYS ARE TO BE HEAVY DUTY
 - MANHOLE COVER LEVELS TO BE 150mm ABOVE GROUND IN OPEN SPACES AND FLUSH ON ROADWAYS AND SIDEWALKS

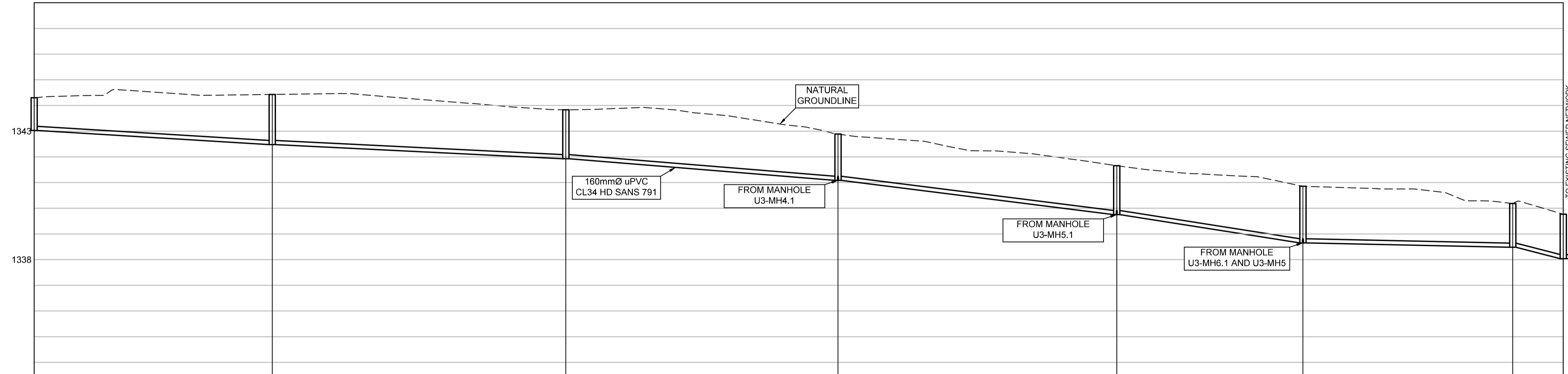
SEWER SETTING OUT DATA			
MANHOLE	Y	X	
U3-MH1	11157.804	3114079.904	
U3-MH2	11125.693	3114046.549	
U3-MH3	11086.091	3114005.414	
U3-MH4	11124.216	3113968.695	
U3-MH5	11163.265	3113931.086	
U3-MH6	11189.342	3113905.971	
U3-MH7	11161.246	3113876.370	
U3-TIE-IN-1	11164.464	3113867.093	
U3-MH4.3	11207.412	3114045.612	
U3-MH4.2	11191.992	3114039.066	
U3-MH4.1	11158.104	3114003.881	
U3-MH4	11124.216	3113968.695	
U3-MH5.3	11207.423	3114008.830	
U3-MH5.2	11207.431	3113981.942	
U3-MH5.1	11204.177	3113973.832	
U3-MH5	11163.265	3113931.086	

MAKHAOTSE, NARASIMULU & ASSOCIATES (Pty) Ltd
 Consulting Civil Engineers and Project Managers
 Reg No. 2009/010089/07

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 Pietermaritzburg 3200 Haymarket
 Tel (033) 346 2835 Pietermaritzburg 3200
 Fax (033) 346 2328 e-mail: pmb@mna-sa.co.za

TENDER DRAWING
 DATE : _____
 SIGNED BY : _____
 CONSULTING ENGINEER

REV	DATE	DESCRIPTION	BY	CHK
A	31-03-21	TENDER DRAWING	AG	SD



MANHOLE NO:	COVER LEVEL:	INVERT LEVEL:	DEPTH:	PIPE LENGTH & GRADE:	PIPE DETAILS:
U3-MH1	1344.30	1343.03	1.27	46.30 m 1:84	uPVC CL34 HD SANS 791 160 mm
U3-MH2	1344.43	1342.48	1.95	57.10 m 1:104	
U3-MH3	1343.83	1341.93	1.90	52.94 m 1:63	
U3-MH4	1342.89	1341.09	1.80	54.23 m 1:41	
U3-MH5	1341.66	1339.76	1.90	36.22 m 1:33	
U3-MH6	1340.86	1338.66	2.20	40.81 m 1:237	
U3-TIE-IN-1	1339.77	1338.04	1.73	9.83 m 1:22	
MANHOLE U3-MH1 TO U3-TIE-IN-1					

DRG. NO. REFERENCE DRAWINGS



CLIENT NAME **HOUSING DEVELOPMENT AGENCY**

PROJECT TITLE
INSTALLATION OF INTERNAL WATER AND SEWER NETWORK FOR UNIT 3 AND 7 MELODING, VIRGINIA

DRAWING TITLE
UNIT 3 LONG SECTIONS U3-MH1 TO U3-TIE-IN-1 U3-MH4.3 TO U3-MH4 U3-MH5.3 TO U3-MH5

	RESPONSIBLE PERSON	DATE
DESIGNED	A. GANASS	25-02-2021
CHECKED	S. DELOMONEY	25-02-2021
DRAWN	A. GANASS	25-02-2021
CHECKED	S. DELOMONEY	25-02-2021
SCALES	H=500 & V=100	SHEET SIZE A1
DRAWING NO.	WP2319-MNA-FT-SA-201	REVISION A