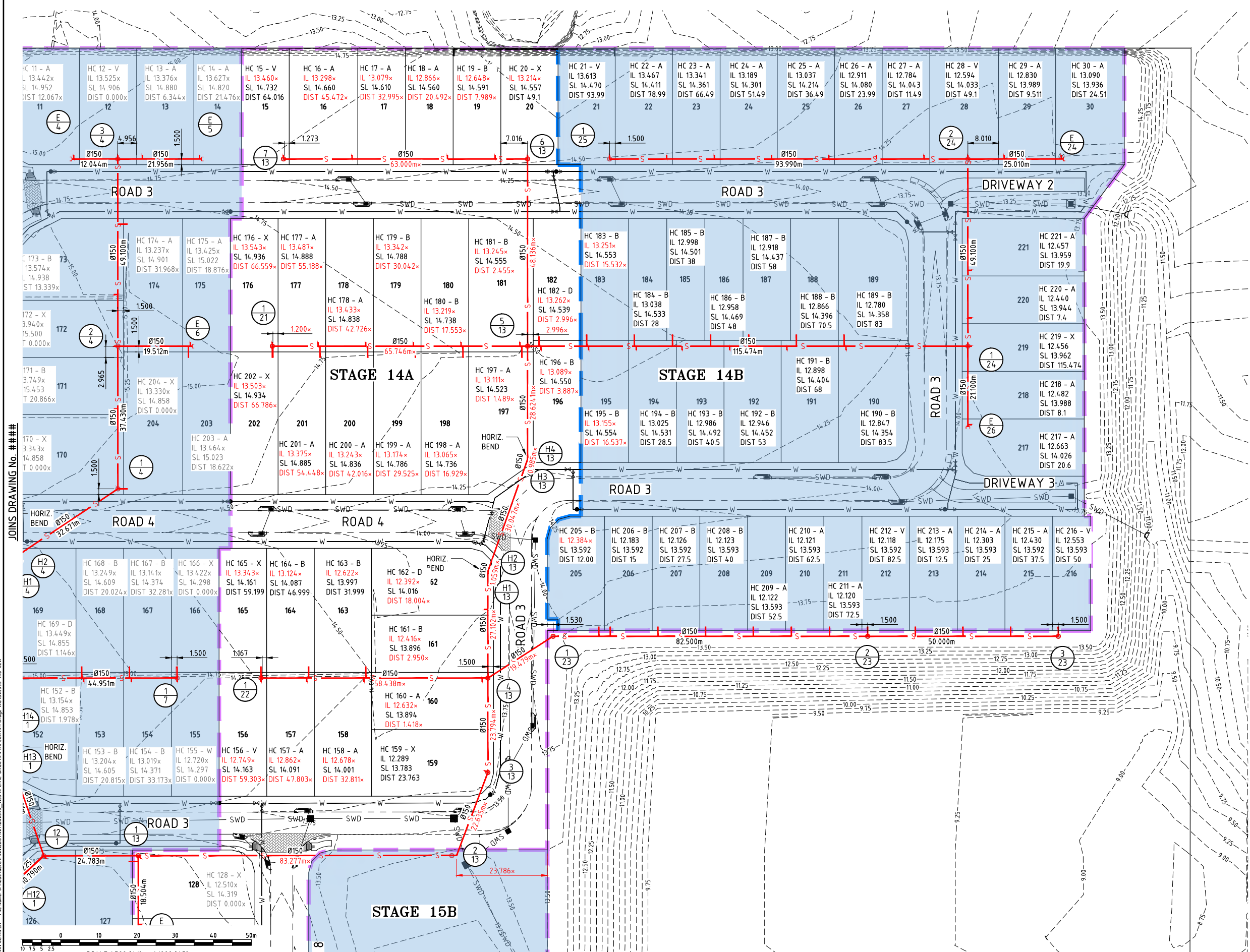




NOTE:-

LOTS 11 TO 30 HAVE BEEN DESIGNED SO BATTERS DO NOT ENCROACH ONTO ADJACENT PROPERTY TO THE NORTH. POSSIBLE FUTURE RETAINING WALLS AND FILLING WILL FORM PART OF BUILDING WORKS IF REQUIRED, ON AN INDIVIDUAL LOT BASIS.

THE SEWER NETWORK HAS BEEN DESIGNED TO CONTROL THE POSSIBLE FUTURE FILLING OF THESE LOTS, ASSUMING THE CONTINUATION OF FSL AT 1 IN 150 GRADE TO THE REAR BOUNDARY.

AS CONSTRUCTED CERTIFICATION

THE WORK ON THIS DRAWING HAS BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE DESIGN DRAWINGS AND THE INTENT OF THE GUIDELINES OF TOWNSVILLE CITY COUNCIL

APPROVED: *[Signature]* RPEQ: 12732

for and on behalf of Empower Engineer & Project Managers *[Empower Logo]*

NOTE:-

THIS AS CONSTRUCTED CERTIFICATION IS RELEVANT TO STAGE 14A ONLY.

SURVEY SOLUTIONS AUSTRALIA (ABN 78 632 383 316), 49 Golcochea Drive Bushland Beach, Townsville hereby certify that this Drawing accurately and correctly describes and records the nature and location of the works depicted by asterisks (*) hereon as they have been constructed for subdivision.

Ryan Machin Director

Date 09.09.2024

Accepted As Constructed

- LEGEND**
- STAGE BOUNDARY
 - SUBSTAGE BOUNDARY
 - LOT BOUNDARY
 - BARRIER TYPE KERB AND CHANNEL
 - MOUNTABLE TYPE KERB AND CHANNEL
 - SEWERAGE RETICULATION
 - EXISTING SEWER RETICULATION
 - MAINTENANCE HOLE
 - STORMWATER DRAINAGE
 - WATER RETICULATION
 - TRUNK WATER RETICULATION BY OTHERS NOT PART OF SUBDIVISION WORKS

JOINS DRAWING No. B00393-CS402

AS CONSTRUCTED

Registered Engineer 12732

Date Register

ENGINEERING CERTIFICATION

Drawn Design Design Chk Appd Date

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THE Reserve

From the developers of Kalynda Chase

urbex designed for life

Empower

ENGINEERS & PROJECT MANAGERS

ABN 23 010 743 692

Client **URBEX PTY LTD**

Project **THE RESERVE - STAGE 14A**

Title **SEWER RETICULATION LAYOUT SHEET 1 OF 2**

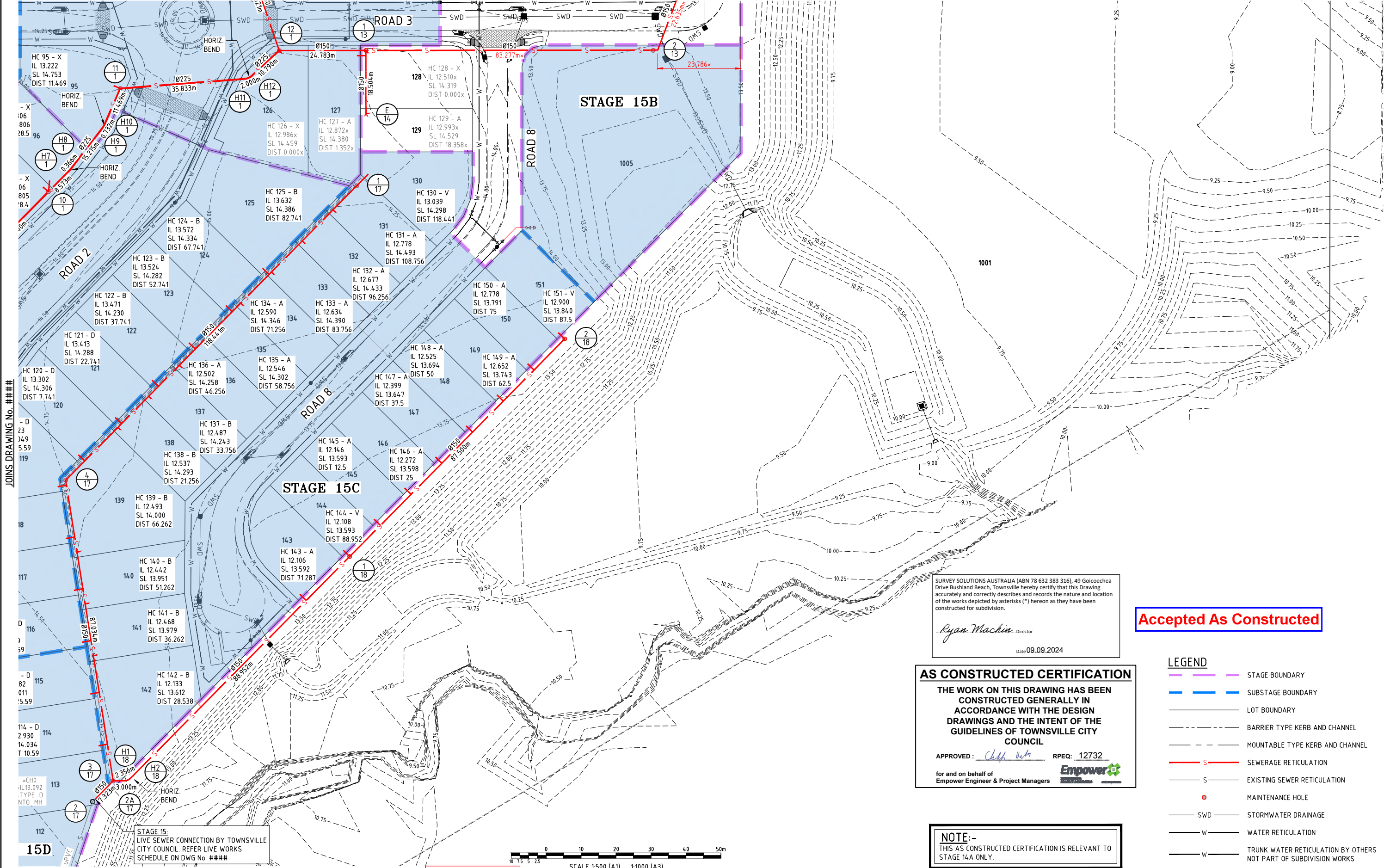
Datum **AHD PSM 200645 RL 14.410 (MGA) COORD**

AS CONSTRUCTED

Project No. **B00393-CS401**

Drawing No. **0**

Rev **0**



SURVEY SOLUTIONS AUSTRALIA (ABN 78 632 383 316), 49 Goicoechea Drive Bushland Beach, Townsville hereby certify that this Drawing accurately and correctly describes and records the nature and location of the works depicted by asterisks (*) herein as they have been constructed for subdivision.

Ryan Machin Director

Date 09.09.2024

Accepted As Constructed

AS CONSTRUCTED CERTIFICATION

THE WORK ON THIS DRAWING HAS BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE DESIGN DRAWINGS AND THE INTENT OF THE GUIDELINES OF TOWNSVILLE CITY COUNCIL

APPROVED: *Chad Wain* RPEQ: 12732

for and on behalf of Empower Engineer & Project Managers

- LEGEND**
- STAGE BOUNDARY
 - SUBSTAGE BOUNDARY
 - LOT BOUNDARY
 - BARRIER TYPE KERB AND CHANNEL
 - MOUNTABLE TYPE KERB AND CHANNEL
 - SEWERAGE RETICULATION
 - EXISTING SEWER RETICULATION
 - MAINTENANCE HOLE
 - STORMWATER DRAINAGE
 - WATER RETICULATION
 - TRUNK WATER RETICULATION BY OTHERS NOT PART OF SUBDIVISION WORKS

NOTE:-
THIS AS CONSTRUCTED CERTIFICATION IS RELEVANT TO STAGE 14A ONLY.

AS CONSTRUCTED

Registered Engineer
9/9/2024 12732
Date Register
ENGINEERING CERTIFICATION



Client: **URBEX PTY LTD**
Project: **THE RESERVE - STAGE 14A**
Title: **SEWER RETICULATION LAYOUT SHEET 2 OF 2**

Datum: **AHD PSM 200645 RL 14.410 (MGA) COORD**
Project No.: **B00393-CS402**
Drawing No.: **0**
Rev: **0**

JOINS DRAWING No. #####

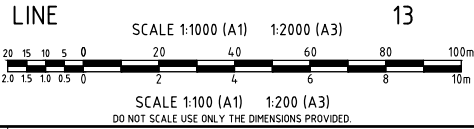
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									Registered Engineer 9/9/2024	12732
									Date	Register
0	AS CONSTRUCTED		NC	LW	CH	CH	29/07/24		ENGINEERING CERTIFICATION	
No.	Amendments	Drawn	Design	Design	Chk	Appd	Date			
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User: ETHAN SCHAFER File Name: S:\1262\data\MAN2025\Y01B00393_1133\CVL-CIVIL-DRGS\14_A3 CON\1.1 Stage 14a B00393-14a-SEW.LX

Plot Date: 6/9/2024 8:37:04 AM

MH/MS No.	12-1	1-13	2-13	3-13	4-13	H1.13	H2.13	H3.13	H4.13	5-13	6-13	7-13
MH/MS TYPE/DROP	S1200 V	S1050 V	S1050 V	S1050 V	S1050 V	BEND TP Dr 0.000	BEND TP Dr 0.000	BEND TP Dr 0.000	BEND TP Dr 0.000	S1050 V	S1050 V	S1050 V
MH/MS COVER TYPE	B	B	D Bolt	B	B					B	B	B
BRANCH LINE No.		14			23					21		
BRANCH DROP					X					X		
HC DEPTH	AS CONSTRUCTED CERTIFICATION THE WORK ON THIS DRAWING HAS BEEN CONSTRUCTED GENERALLY IN ACCORDANCE WITH THE DESIGN DRAWINGS AND THE INTENT OF THE GUIDELINES OF TOWNSVILLE CITY COUNCIL APPROVED :  RPEQ: 12732 for and on behalf of Empower Engineer & Project Managers 											
HC TYPE												
HC IL												
HC LOT No.												
HC CHAINAGE												
MAINTENANCE HOLE TYPES: (SEQ-SEW-1101-2) P1-P3=PRE-CAST CONCRETE A=1000Ø CONCRETE B=1200Ø CONCRETE C=1500Ø CONCRETE MAINTENANCE SHAFTS: (SEQ-SEW-1314-1) G=Ø225 uPVC NOTE: 1. FOR MANHOLE DROP TYPES REFER SEQ-SEW-1303-1 (INTERNAL DROPS ONLY) 2. FOR COVER TYPES REFER SEQ-SEW-1308-1 (DIMENSION H TO BE 150mm FOR NEW SUBDIVISIONS) 3. IN-LINE BENDS REFER SEQ-SEW-1314-3 4. FOR HC TYPES AND DROPS REFER SEQ-SEW-1104-1 & SEQ-SEW-1105-1 5. HC TYPES INTO MANHOLES NOMINATED AS PER MANHOLE DROP TYPES ★ DEPTHS SHOWN ARE OVER SEWER MAIN, DEPTHS AT END OF HC CHECKED TO BE <1.5m (CTM CODE DRAWING LIST NOTES SPECIFIC TO TCC)												
LEGEND × ALLOTMENT CONTROL LEVEL △ HOUSE CONNECTION Bolt BOLT DOWN COVER PIPE EMBEDMENT TYPE 3 (UNLESS GEOTECH CONDITIONS REQUIRE OTHERWISE) PROPERTY DESCRIPTION DIAMETER/TYPE GRADE (1 in X) LENGTH DATUM (m) BRANCH INVERT LEVEL DEPTH BELOW F.S.L. INVERT LEVEL MH LID CHAINAGE												
LOT ROAD OPEN SPACE LOT ROAD LOT LINE 13 SWD 375mm IL 12.553 100 DIA WATER MAIN 100mm IL 12.827 LINE 13 SWD 375mm IL 12.124 LINE 1 SWD 900mm IL 11.139 150 DIA WATER MAIN 150mm IL 12.700 150 DIA WATER MAIN 150mm IL 13.115 LINE 15 SWD 450mm IL 12.180 150 DIA WATER MAIN 150mm IL 13.297 150 DIA WATER MAIN 150mm IL 13.463 LINE 16 SWD 375mm IL 12.849 63 DIA WATER MAIN 63mm IL 13.550												
DN150uPVC SN8 175 175 175 175 175 175 175 175 175 58.82 58.82 24.783 83.277× 22.635× 23.794× 27.102× 1.059× 30.047× 0.985× 28.624× 48.136× 63.000× -2.0 107.000 130.763 155.533 183.041 184.065 214.134 215.159 244.364 293.464 357.481 4.672 4.597 4.317 4.287 2.726 2.646 2.981× 2.949× 3.058× 3.029× 2.905× 2.905× 3.015× 3.007× 3.049× 3.049× 3.047× 3.047× 3.064× 3.033× 2.241× 2.169× 12.622× 14.437× 9.803× 9.863× 10.015× 10.031× 10.512× 10.585× 10.729× 10.751× 13.434× 13.953× 14.086 14.094 14.301 14.304 14.494× 14.537× 14.722× 0.000 24.783 107.000 130.763 155.533 183.041 184.065 214.134 215.159 244.364 293.464 357.481												



AS CONSTRUCTED

<i>Chad Wain</i>	
Registered Engineer	12732
Date	9/9/2024
Register	
ENGINEERING CERTIFICATION	
No.	Amendments
0	AS CONSTRUCTED
NC	LW
CH	CH
CH	CH
29/07/24	Date



Accepted As Constructed

NOTE:-
THIS AS CONSTRUCTED CERTIFICATION IS RELEVANT TO STAGE 14A ONLY.

Client	URBEX PTY LTD	Datum	AHD
Project	THE RESERVE - STAGE 14A	PSM	200645
Title	SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 2	RL	14.410 (MGA) COORD
AS CONSTRUCTED		Project No.	B00393-CS403
		Drawing No.	
		Rev	0

MH/MS No.
MH/MS TYPE/DROP
MH/MS COVER TYPE
BRANCH LINE No.
BRANCH DROP
HC DEPTH
HC TYPE
HC IL
HC LOT No.
HC CHAINAGE

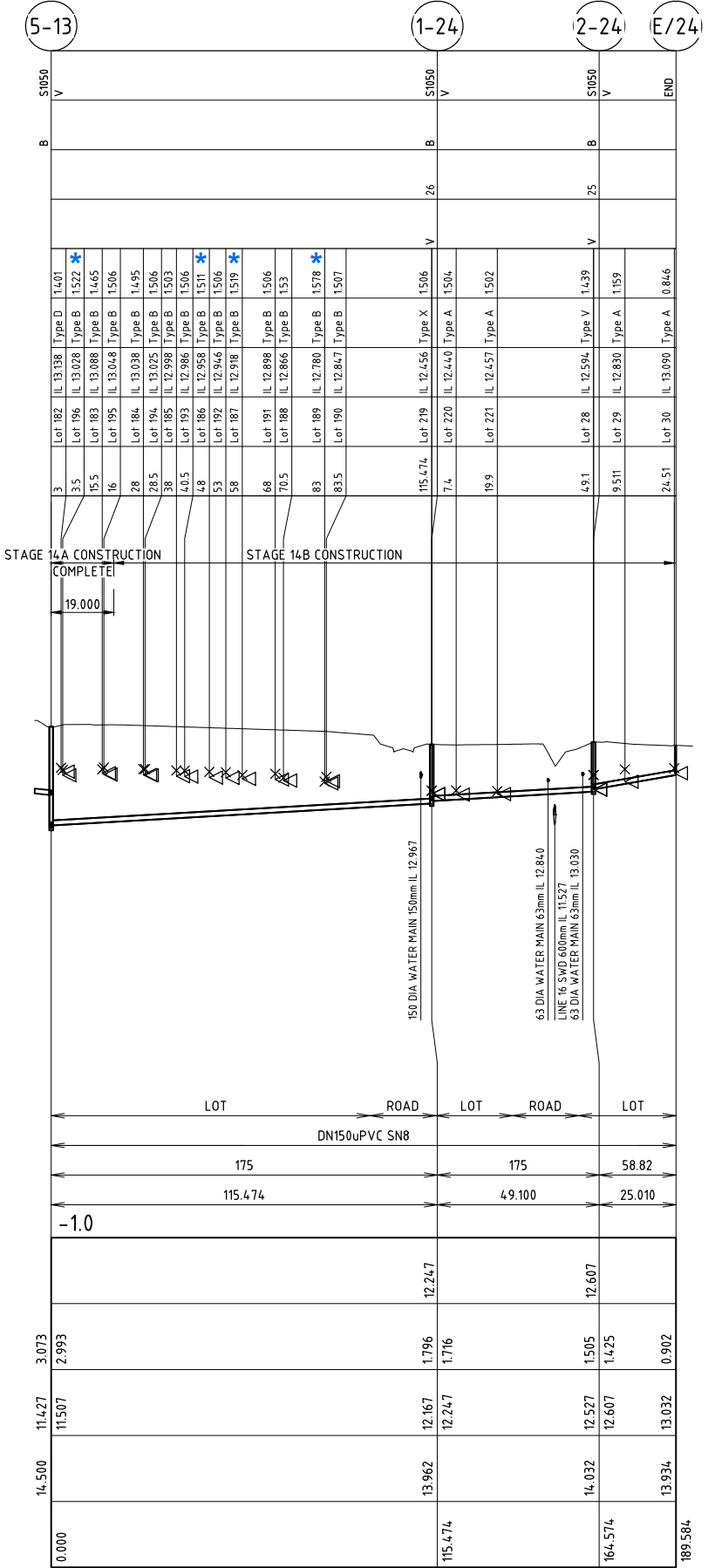
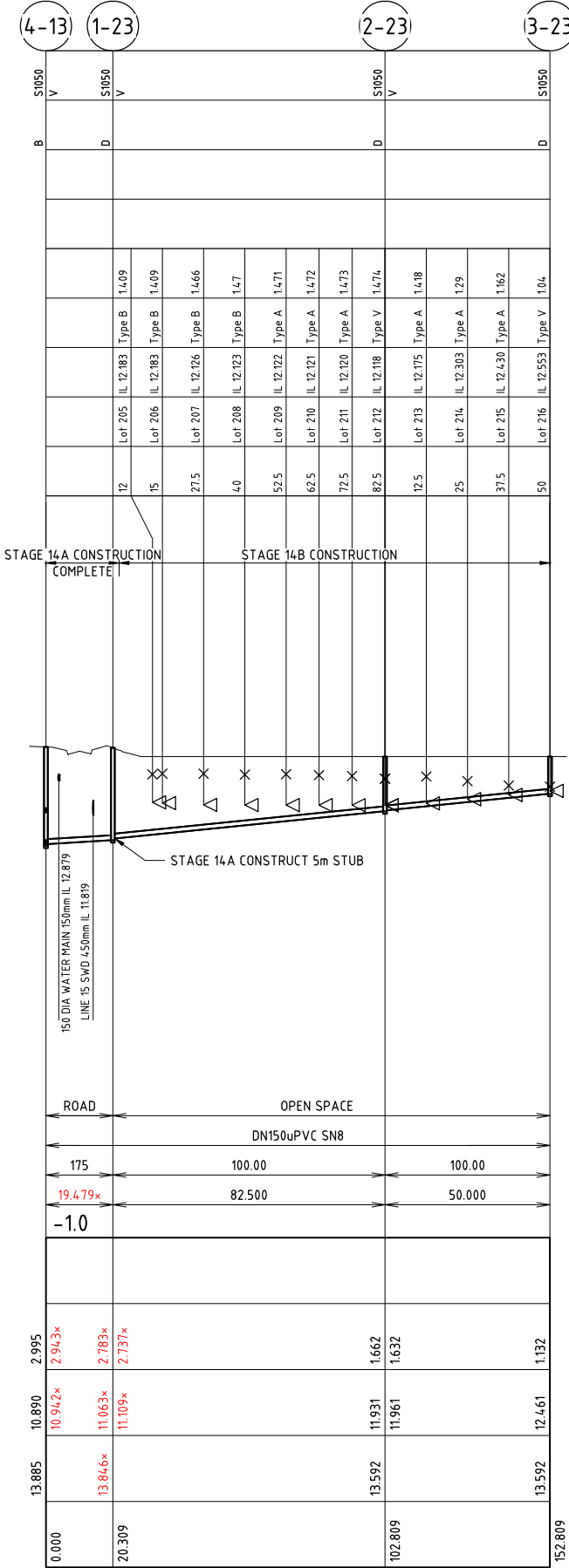
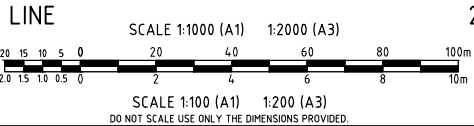
MAINTENANCE HOLE TYPES:
(SEQ-SEW-1101-2)
P1-P3=PRE-CAST CONCRETE
A=1000Ø CONCRETE B=1200Ø CONCRETE
C=1500Ø CONCRETE

MAINTENANCE SHAFTS:
(SEQ-SEW-1314-1) G=Ø225 uPVC

NOTE:
1. FOR MANHOLE DROP TYPES REFER SEQ-SEW-1303-1 (INTERNAL DROPS ONLY)
2. FOR COVER TYPES REFER SEQ-SEW-1308-1 (DIMENSION H TO BE 150mm FOR NEW SUBDIVISIONS)
3. IN-LINE BENDS REFER SEQ-SEW-1314-3
4. FOR HC TYPES AND DROPS REFER SEQ-SEW-1104-1 & SEQ-SEW-1105-1
5. HC TYPES INTO MANHOLES NOMINATED AS PER MANHOLE DROP TYPES
★ DEPTHS SHOWN ARE OVER SEWER MAIN, DEPTHS AT END OF HC CHECKED TO BE <1.5m

(CTM CODE DRAWING LIST NOTES SPECIFIC TO TCC)

LEGEND
× ALLOTMENT CONTROL LEVEL
△ HOUSE CONNECTION
Bolt BOLT DOWN COVER
PIPE EMBEDMENT TYPE 3 (UNLESS GEOTECH CONDITIONS REQUIRE OTHERWISE)
PROPERTY DESCRIPTION
DIAMETER/TYPE
GRADE (1 in X)
LENGTH
DATUM (m)
BRANCH INVERT LEVEL
DEPTH BELOW F.S.L.
INVERT LEVEL
MH LID
CHAINAGE



SURVEY SOLUTIONS AUSTRALIA (ABN 78 632 383 316), 49 Goicoechea Drive Bushland Beach, Townsville hereby certify that this Drawing accurately and correctly describes and records the nature and location of the works depicted by asterisks (*) hereon as they have been constructed for subdivision.

Ryan Machin Director

Date 09.09.2024

Accepted As Constructed

AS CONSTRUCTED CERTIFICATION

THE WORK ON THIS DRAWING HAS BEEN
CONSTRUCTED GENERALLY IN
ACCORDANCE WITH THE DESIGN
DRAWINGS AND THE INTENT OF THE
GUIDELINES OF TOWNSVILLE CITY
COUNCIL

APPROVED : *Chad Wain* RPEQ: 12732

for and on behalf of
Empower Engineer & Project Managers

NOTE:-
THIS AS CONSTRUCTED CERTIFICATION IS RELEVANT TO
STAGE 14A ONLY.

AS CONSTRUCTED

Chad Wain
Registered Engineer
9/9/2024 12732
Date Register

ENGINEERING CERTIFICATION

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Client	URBEX PTY LTD	Datum	AHD
Project	THE RESERVE - STAGE 14A	PSM	200645
Title	SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2	RL	14.410 (MGA) COORD
Project No.	B00393-CS404	Drawing No.	0
Rev	0		