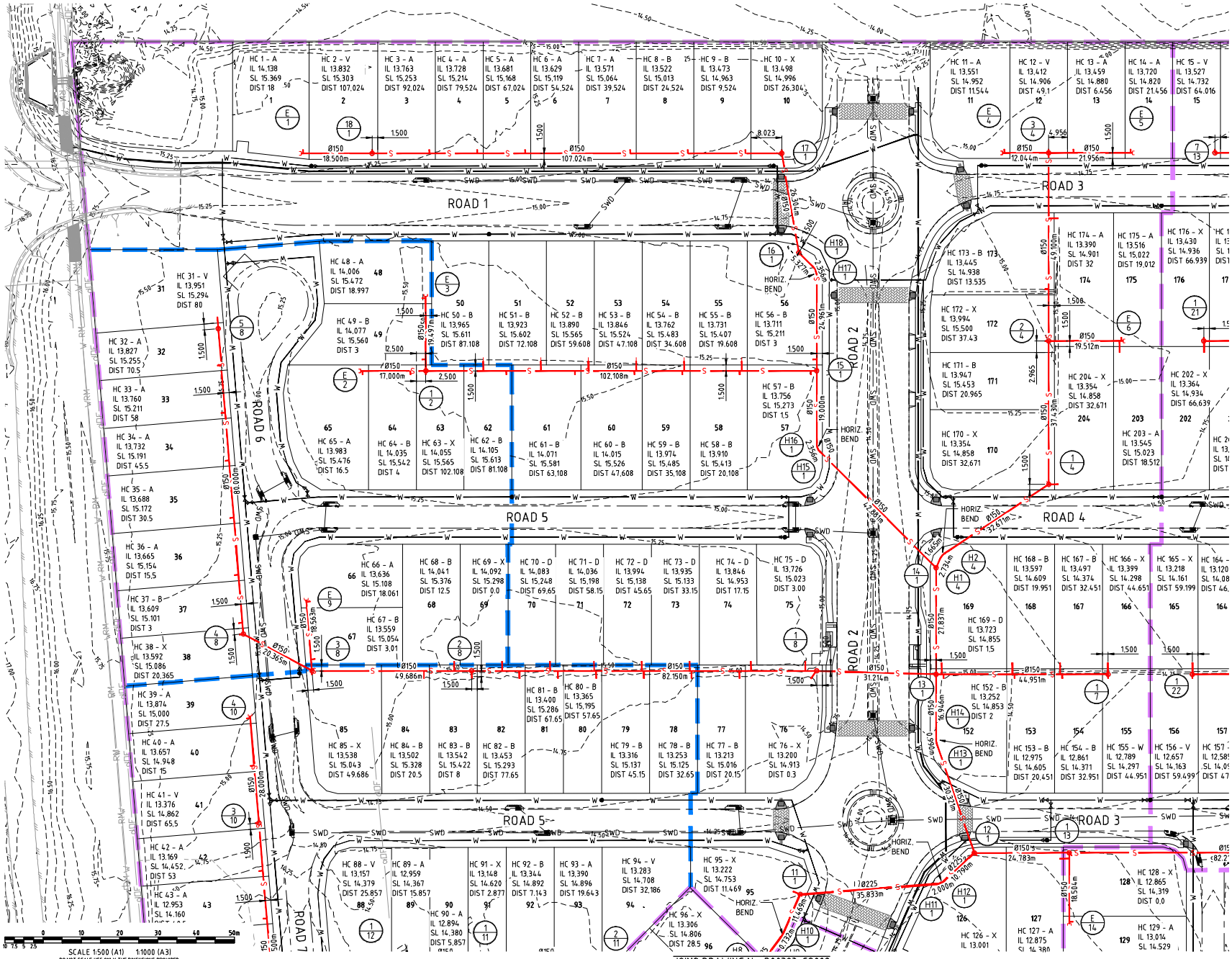


LEGEND

- 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

Townsville City Council

Accepted Subject to Conditions

OPW21/0024
11/06/2021

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 12732
Date Register

ENGINEERING CERTIFICATION

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

THE Reserve
From the developers of Kalynda Chase
urbex

Empower
ENGINEERS & PROJECT MANAGERS
ABN 23 010 743 692

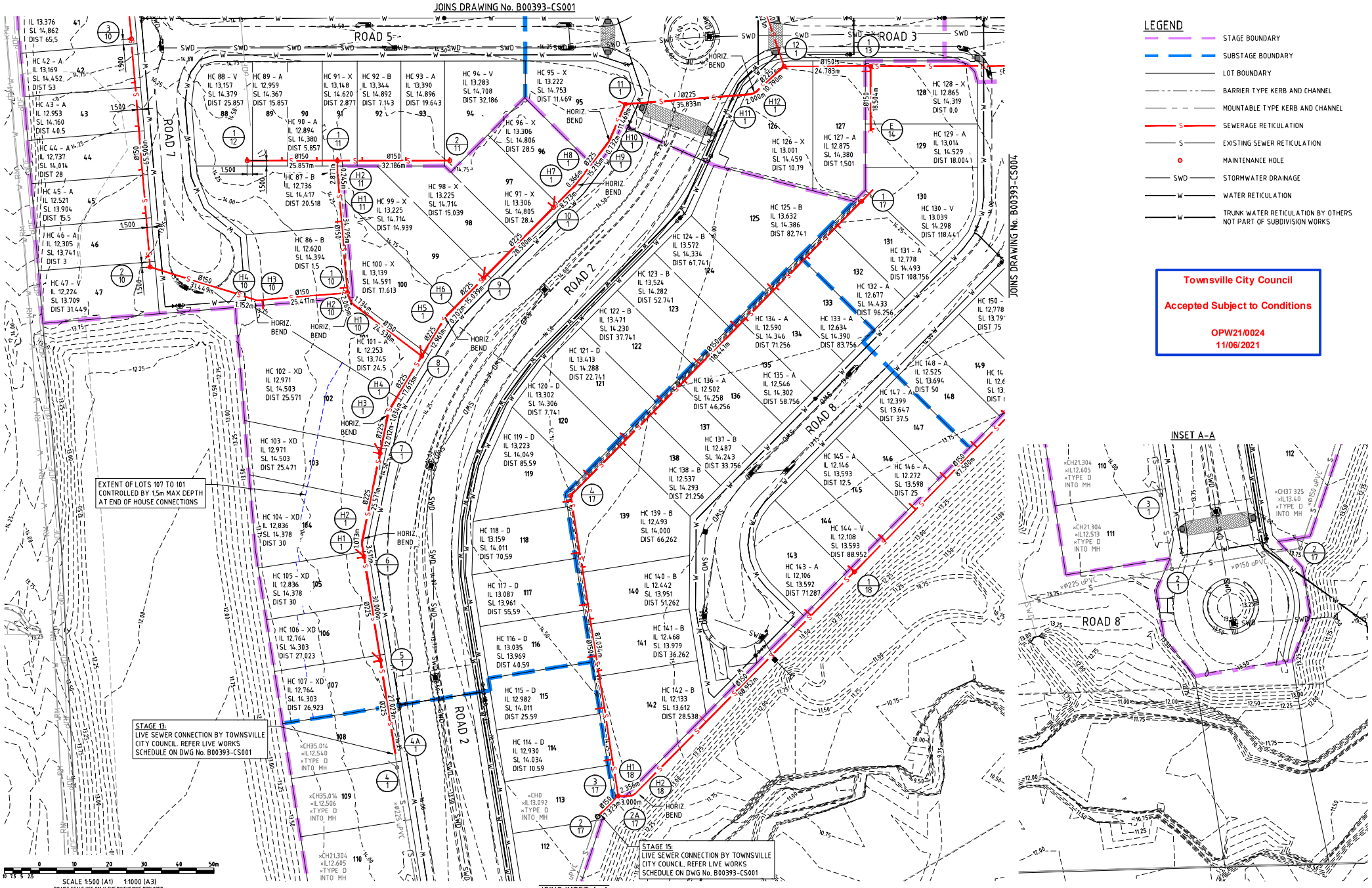
Client URBEX PTY LTD
Project KALYNDA CHASE - PHASE 4 - THE RESERVE
Title SEWER RETICULATION LAYOUT SHEET 1 OF 4

Datum AHD
PSM 200645
RL 14.410
(MGA) COORD

NOT FOR CONSTRUCTION

Project No. B00393
Drawing No. CS001
Rev C

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC



Townsville City Council

Accepted Subject to Conditions

OPW21/0024
11/06/2021

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 Date — 12732 Register

ENGINEERING CERTIFICATION

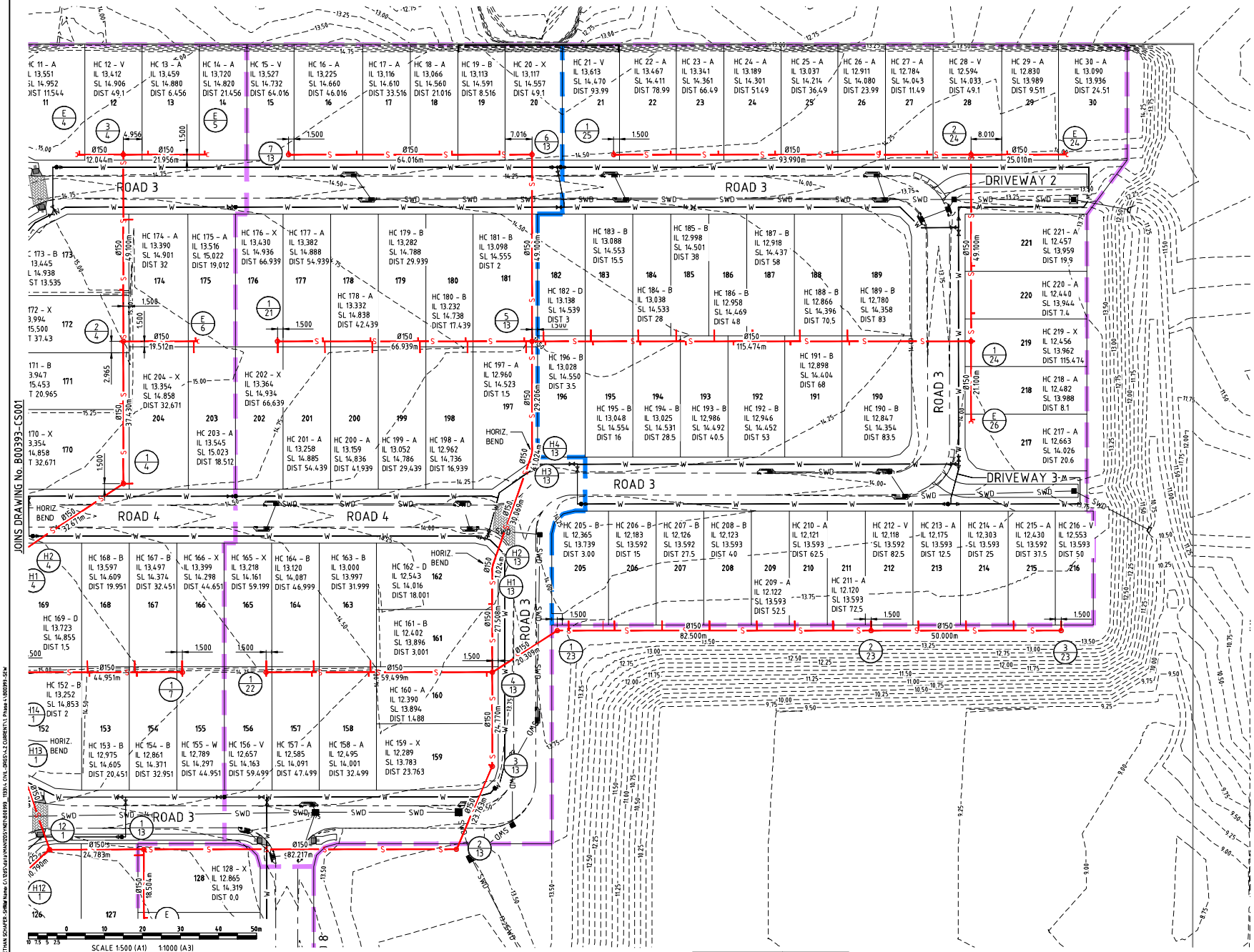
This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

THE Reserve — From the developers of Kalynda Chase — urbex

Empower ENGINEERS & PROJECT MANAGERS ABN 23 010 743 692

Client	URBEX PTY LTD
Project	KALYNDA CHASE - PHASE 4 - THE RESERVE
Title	SEWER RETICULATION LAYOUT SHEET 2 OF 4
Datum	AHD PSM 200645 RL 14.410 (MGA) COORD
	NOT FOR CONSTRUCTION
Project No.	B00393-CS002
Drawing No.	
Rev	C

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC



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.

Townsville City Council

Accepted Subject to Conditions

OPW21/0024
11/06/2021

LEGEND

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

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 Date — 12732 Register

ENGINEERING CERTIFICATION

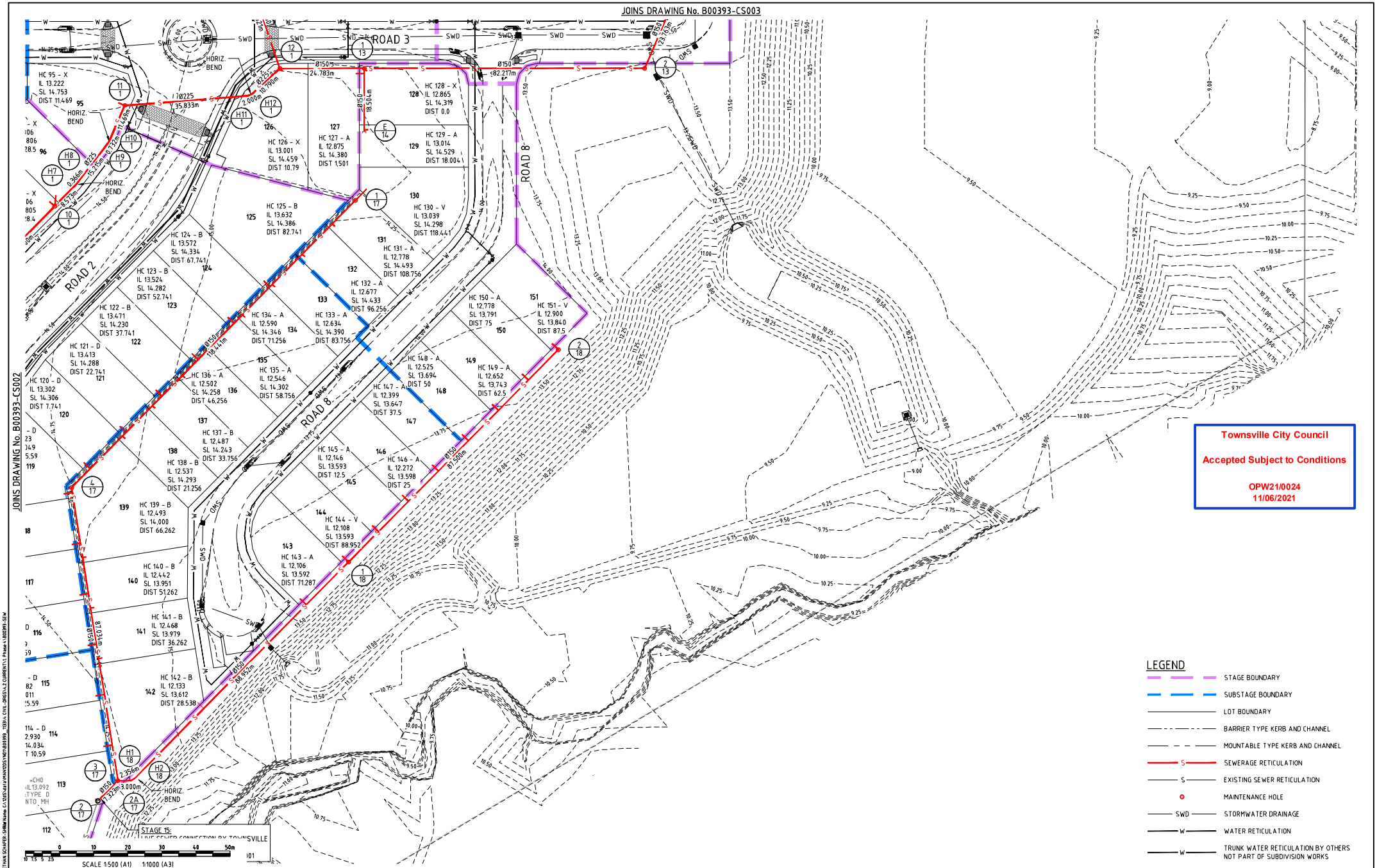
This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

THE Reserve — From the developers of Kalynda Chase — urbex

Empower ENGINEERS & PROJECT MANAGERS ABN 23 010 743 692

Client	URBEX PTY LTD
Project	KALYNDA CHASE - PHASE 4 - THE RESERVE
Title	SEWER RETICULATION LAYOUT SHEET 3 OF 4
Datum	AHD PSM 200645 RL 14.410 (MGA) COORD
	NOT FOR CONSTRUCTION
Project No.	B00393-CS003
Drawing No.	
Rev	C

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC



No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 Date | 12732 Register

ENGINEERING CERTIFICATION

THE Reserve — From the developers of Kalynda Chase — urbex

Empower — ENGINEERS & PROJECT MANAGERS — ABN 23 010 743 692

Client: URBEX PTY LTD

Project: KALYNDA CHASE - PHASE 4 - THE RESERVE

Title: SEWER RETICULATION LAYOUT SHEET 4 OF 4

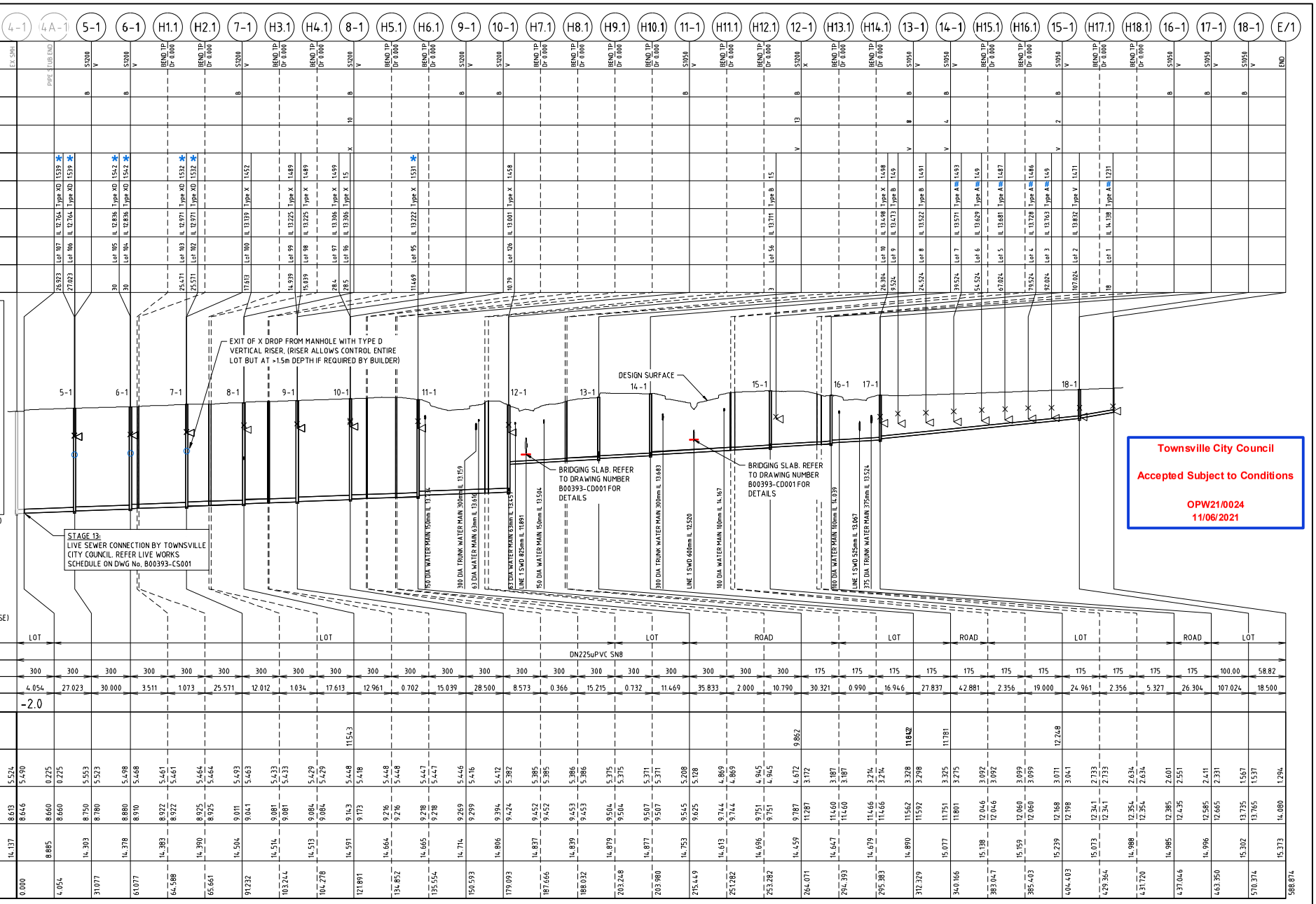
Datum: AHD PSM 200645 RL 14.410 (MGA) COORD

NOT FOR CONSTRUCTION

Project No. B00393 | Drawing No. CS004 | Rev C

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC



Townsville City Council

Accepted Subject to Conditions

OPW21/0024
11/06/2021

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 12732
Date Register
ENGINEERING CERTIFICATION

THE Reserve
From the developers of Kalynda Chase
urbex

Empower
ENGINEERS & PROJECT MANAGERS
ABN 23 010 743 692

Client URBEX PTY LTD
Project KALYNDA CHASE - PHASE 4 - THE RESERVE
Title SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 6

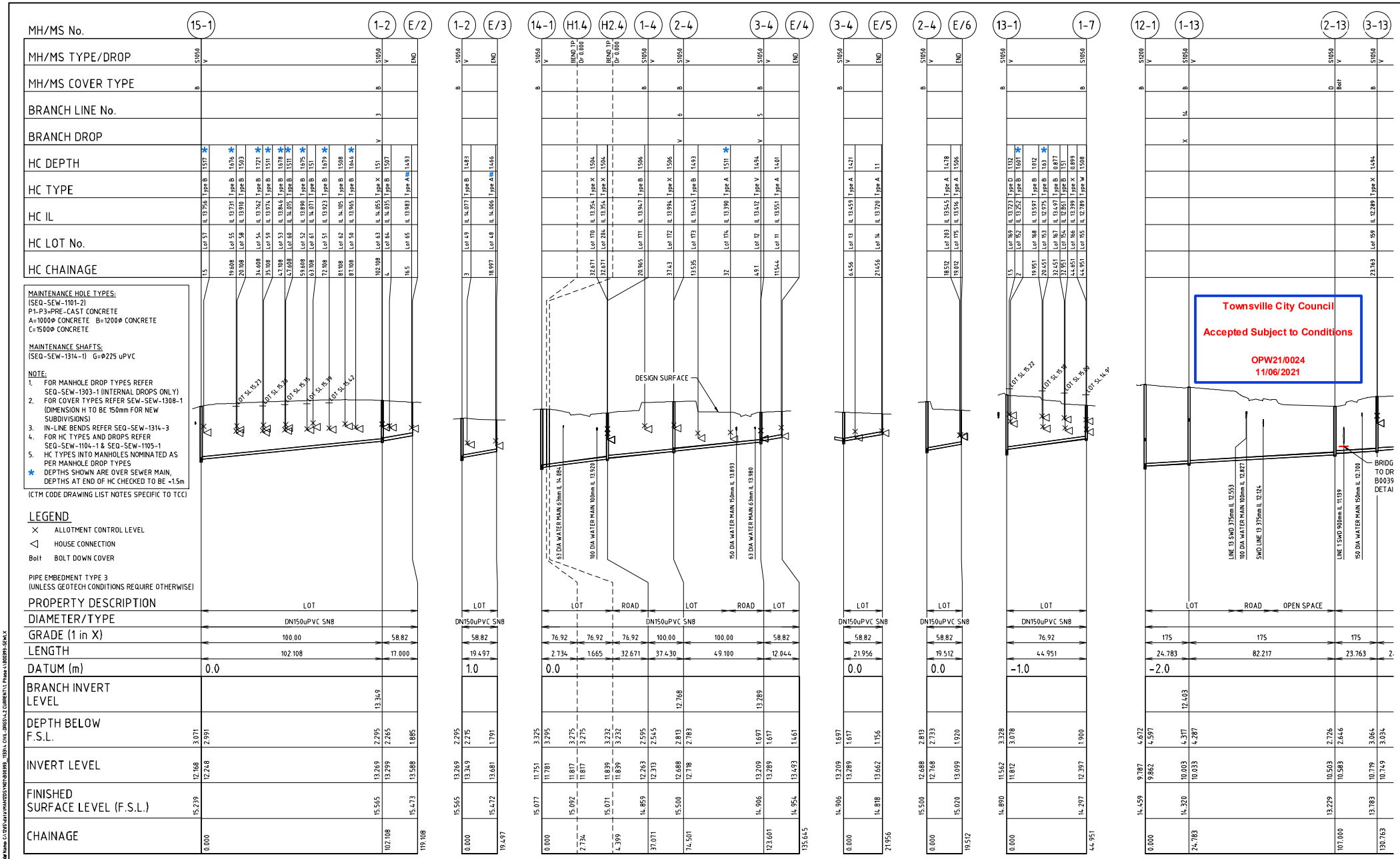
Datum AHD PSM 200645 RL 14.410 (MGA) COORD

NOT FOR CONSTRUCTION

Project No. B00393 Drawing No. CS005 Rev C

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC



No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 Date 12732 Register
ENGINEERING CERTIFICATION

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

THE Reserve
From the developers of Kalynda Chase
urbex

Empower
ENGINEERS & PROJECT MANAGERS
ABN 23 010 743 652

Client URBEX PTY LTD
Project KALYNDA CHASE - PHASE 4 - THE RESERVE
Title SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 6

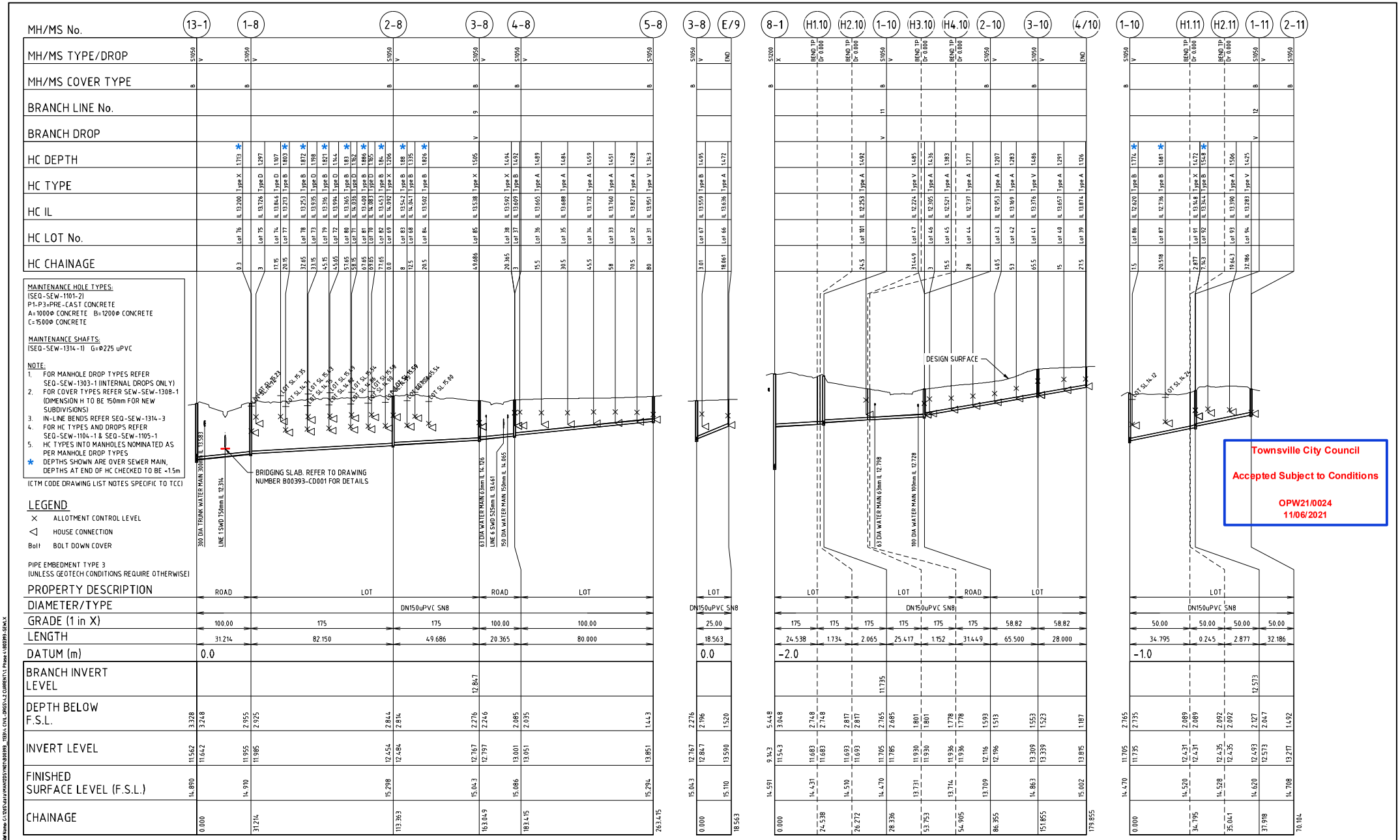
Datum AHD
PSM 200645
RL 14.410
(MGA) COORD

NOT FOR CONSTRUCTION

Project No. B00393-CS006
Drawing No.
Rev C

User: ETHAN SCHAFER - SHRM Name: C:\DOCS\ESS\APPDATA\ROAMING\DOWNLOADS\B00393_-_YESH.v_CIVIL_DRGS.V.2 CURRENT.V.1 Phase 4.1.RDLDPP3_-_SEW.dwg
Plot Date: 14/05/2021 09:53 AM

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC



Townsville City Council

Accepted Subject to Conditions

OPW21/0024
11/06/2021

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 12732
Date Register
ENGINEERING CERTIFICATION

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

THE Reserve
From the developers of Kalynda Chase
urbex

Empower
ENGINEERS & PROJECT MANAGERS
ABN 23 010 743 692

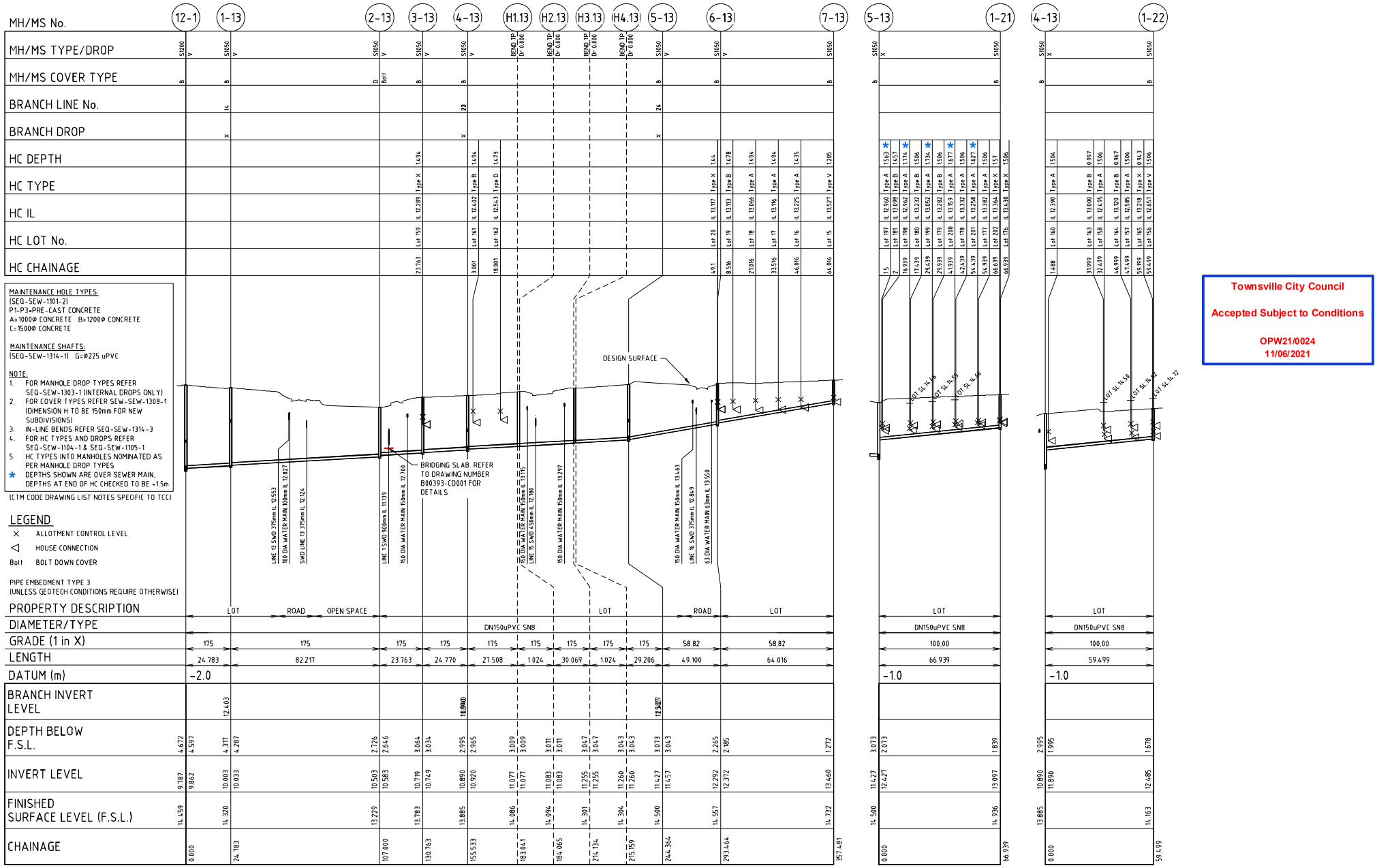
Client URBEX PTY LTD
Project KALYNDA CHASE - PHASE 4 - THE RESERVE
Title SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 3 OF 7

Datum AHD
PSM 200645
RL 14.410
(MGA) COORD

NOT FOR CONSTRUCTION

Project No.	Drawing No.	Rev
B00393	CS007	C

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC



Townsville City Council

Accepted Subject to Conditions

OPW21/0024
11/06/2021

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 Date — 12732 Register

ENGINEERING CERTIFICATION

THE Reserve — From the developers of Kalynda Chase — urbex

Empower ENGINEERS & PROJECT MANAGERS ABN 23 010 743 692

Client: URBEX PTY LTD

Project: KALYNDA CHASE - PHASE 4 - THE RESERVE

Title: SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 4 OF 6

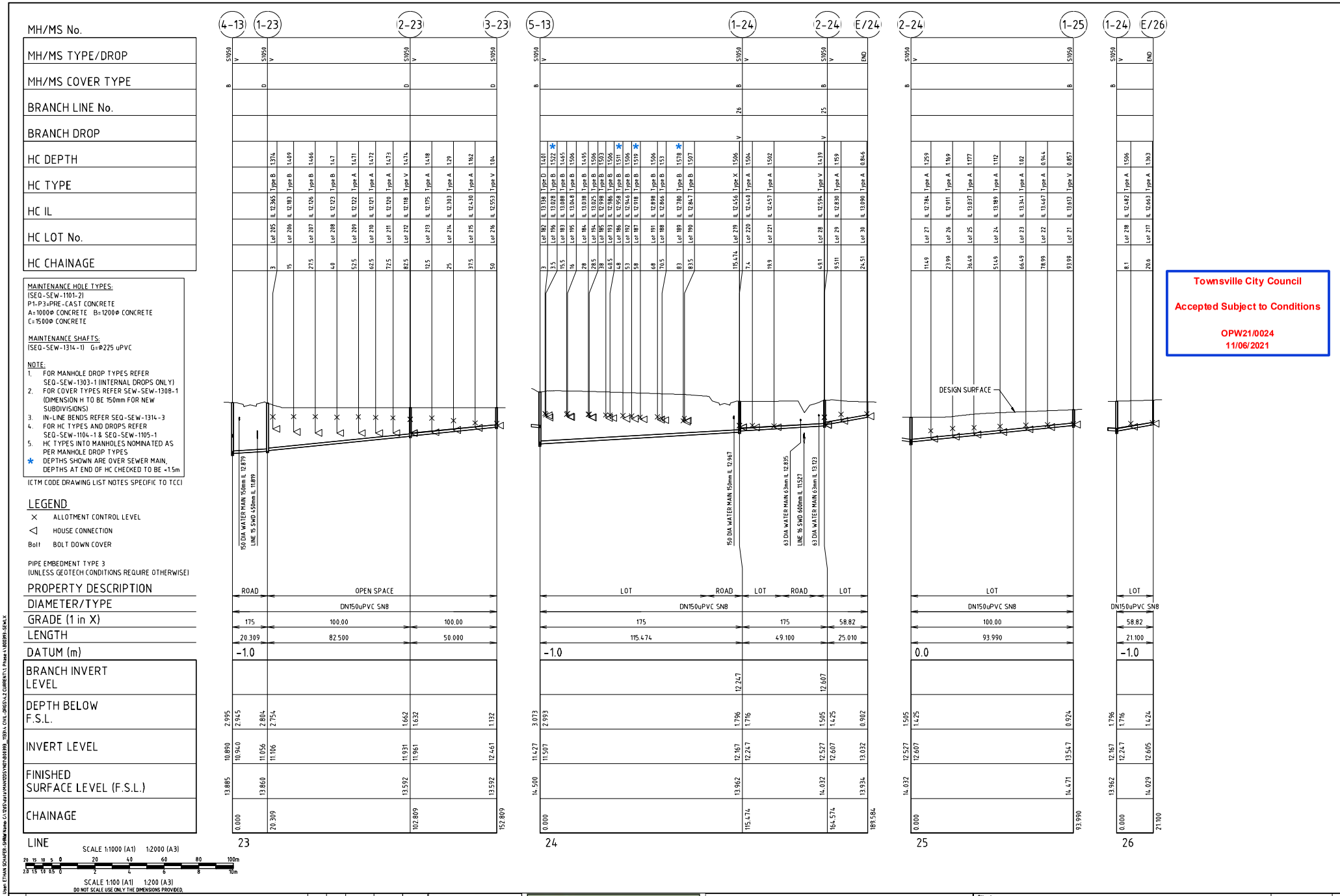
Datum: AHD PSM 200645 RL 14.410 (MGA) COORD

NOT FOR CONSTRUCTION

Project No. B00393 | Drawing No. CS008 | Rev C

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC



Townsville City Council

Accepted Subject to Conditions

OPW21/0024
11/06/2021

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 Date 12732 Register

ENGINEERING CERTIFICATION

THE Reserve
From the developers of Kalynda Chase
urbex

Empower
ENGINEERS & PROJECT MANAGERS
ABN 23 010 743 692

Client URBEX PTY LTD
Project KALYNDA CHASE - PHASE 4 - THE RESERVE
Title SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 5 OF 6

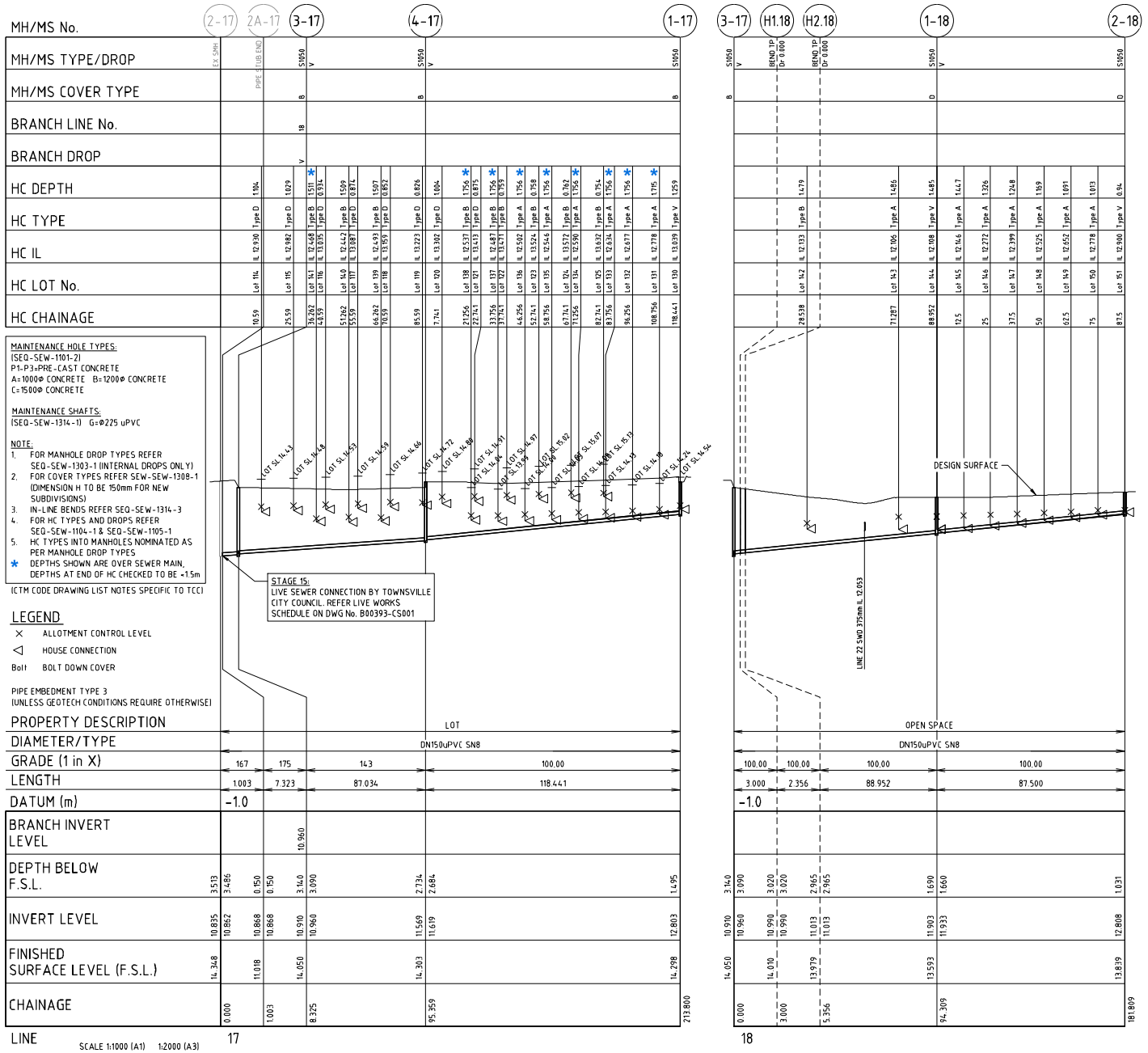
Datum AHD
PSM 200645
RL 14.410
(MGA) COORD

NOT FOR CONSTRUCTION

Project No.	Drawing No.	Rev
B00393	CS009	C

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC



Townsville City Council

Accepted Subject to Conditions

OPW21/0024
11/06/2021

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
C	RFI AMENDMENTS	ESS	PDW	CH	CH	14/05/21
B	ISSUED FOR APPROVAL	ESS	PDW	CH	CH	05/03/21

Registered Engineer 14/5/2021 Date — 12732 Register

ENGINEERING CERTIFICATION

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2021

THE Reserve
From the developers of Kalynda Chase
urbex

Empower
ENGINEERS & PROJECT MANAGERS
ABN 23 010 743 692

Client URBEX PTY LTD

Project KALYNDA CHASE - PHASE 4 - THE RESERVE

Title SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 6 OF 6

Datum AHD
PSM 200645
RL 14.410
(MGA) COORD

NOT FOR CONSTRUCTION

Project No. B00393 | Drawing No. CS010 | Rev C

User: ETHAN SCHAFER - Saved: 14/05/2021 09:55:56 AM
Print Date: 14/05/2021 09:56:06 AM

Document Set ID: 19145453
Version: 3, Version Date: 16/06/2021
DocuSign Envelope ID: C3235285-2F6C-4591-9833-4D5C22873EBC