



TE RAPA ICMP

CADASTRAL BOUNDARIES

STORMWATER DRAINS

PROPOSED ROAD CENTRELINE

PROPOSED ROTOKAURI GREENWAY

ICMP BOUNDARIES

STORMWATER MANAGEMENT AREAS (NOT INCLUDED IN THE DESIGNATION)

bec

ww.

STORMWATER MANAGEMENT AREAS (INCLUDED IN THE DESIGNATION)

STREAM

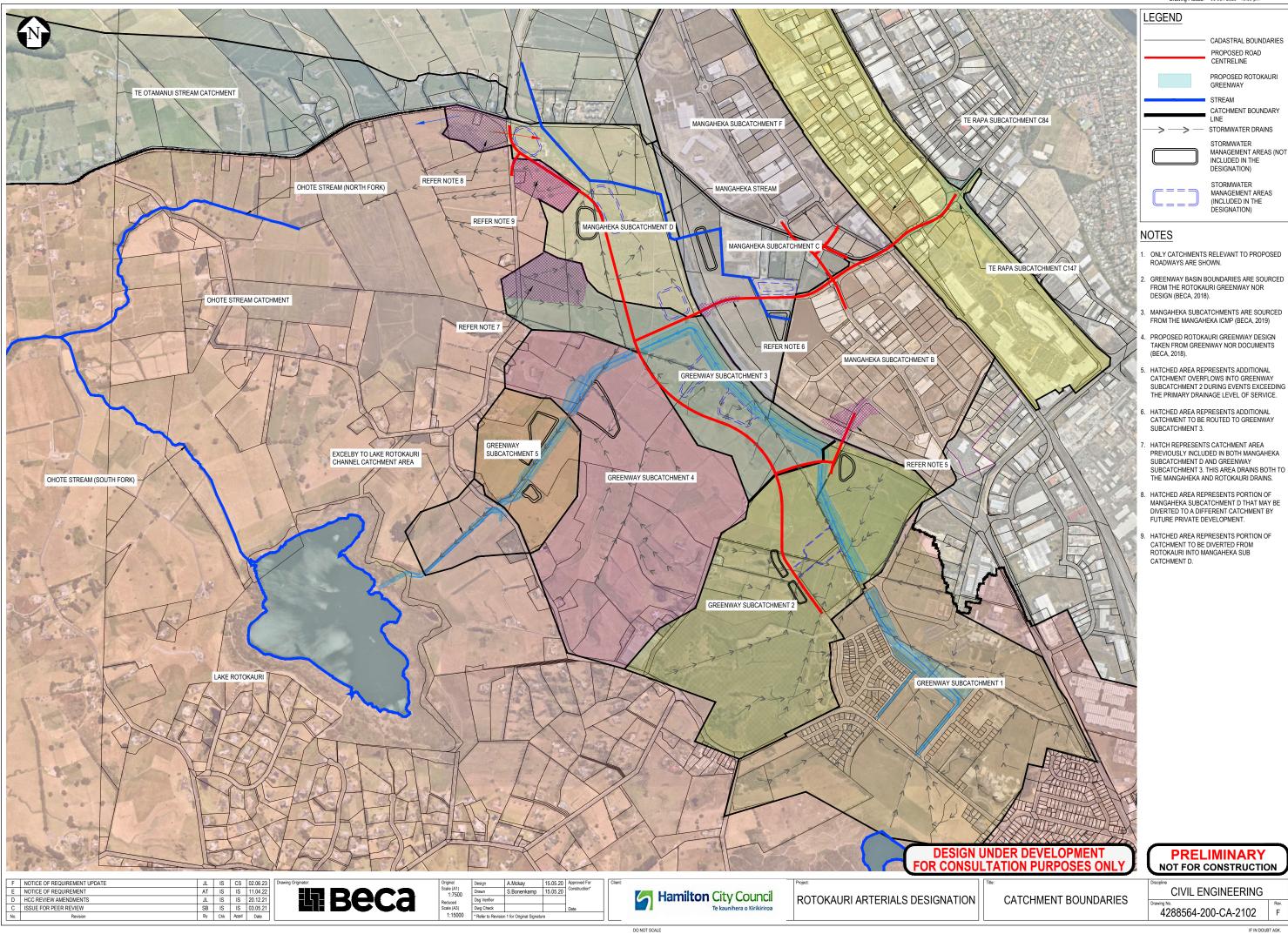
NOTES

- ICMP BOUNDARIES DO NOT ALWAYS MATCH TOPOGRAPHICAL CATCHMENT BOUNDARIES.
- ICMP STATUS: TE RAPA: IN PROGRESS MANGAHEKA: COMPLETE - 2019 ROTOKAURI: COMPLETE - 2017
- PROPOSED ROTOKAURI GREENWAY DESIGN TAKEN FROM GREENWAY NOR DOCUMENTS (BECA, 2018)



PRELIMINARY

NOT FOR CONSTRUCTION

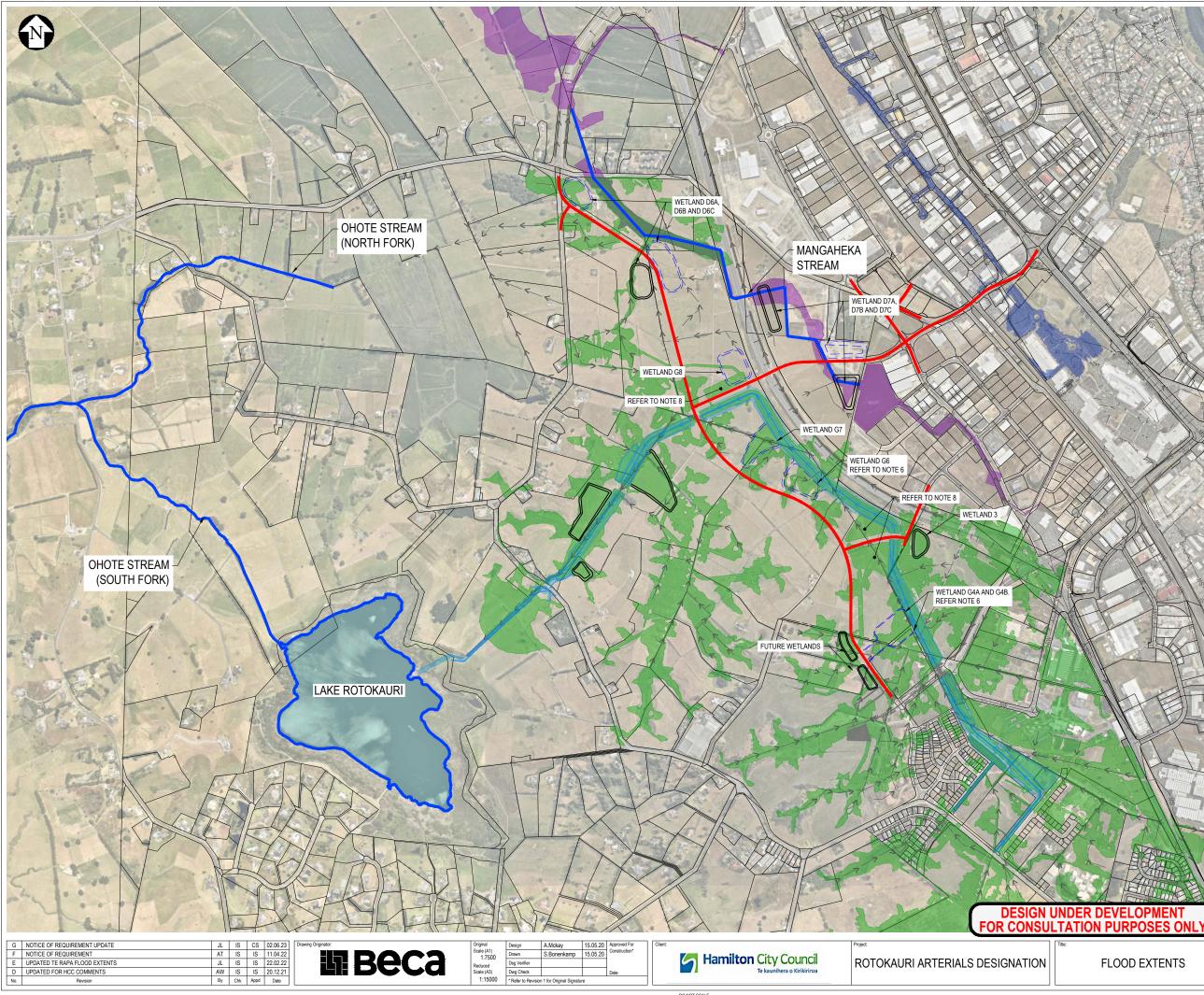


E C

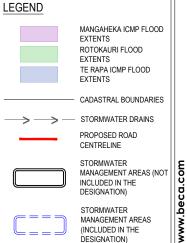
www.beca.

- CATCHMENT OVERFLOWS INTO GREENWAY SUBCATCHMENT 2 DURING EVENTS EXCEEDING

ww.beca.com







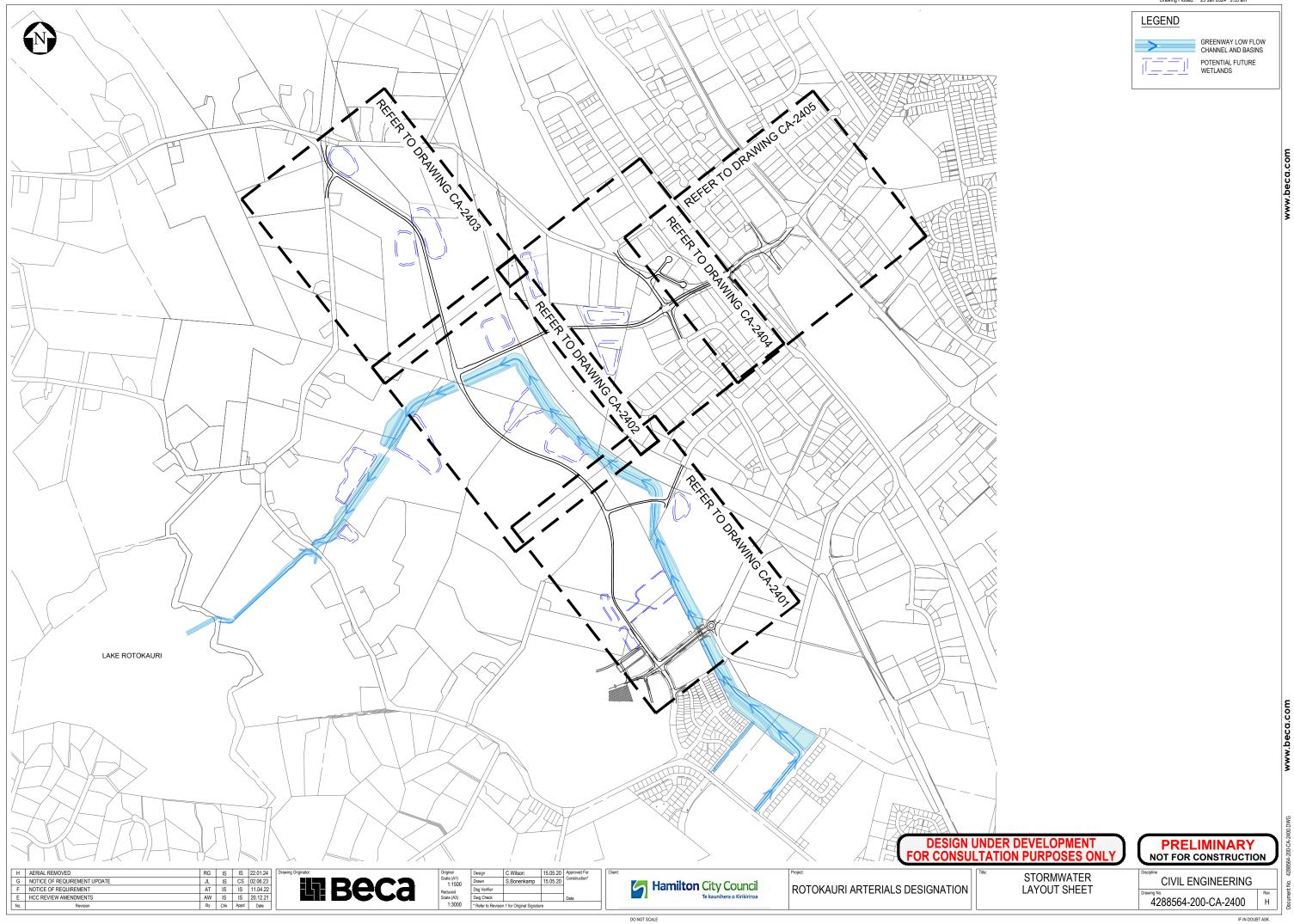
STREAM

NOTES

- MANGAHEKA FLOOD EXTENTS SHOWN REPRESENT THE 100 YEAR ARI EVENT WITH CLIMATE CHANGE AND PROPOSED MITIGATION SOURCED FROM THE MANGAHEKA ICMP FLOOD MODEL (BECA, 2019). THE MANGAHEKA MODEL OVERLAPS IN PART WITH THE EARLIER ROTOKAURI MODEL
- 2. ROTOKAURI FLOOD EXTENT SHOWN REPRESENTS THE 100 YEAR ARI EVENT WITH CLIMATE CHANGE AND THE PROPOSED GREENWAY SOURCED FROM THE GREENWAY NOR DOCUMENTS (BECA, 2018)
- TE RAPA FLOOD EXTENTS SOURCED FROM THE DRAFT TE RAPA (ICMP) AS OF 2021
- FLOOD EXTENTS HAVE BEEN SOURCED FROM VARIOUS MODELLING DATA SETS UNDERTAKEN OVER SEVERAL YEARS, RESULTS ARE NOT NECESSARILY CONSISTENT IN INPUT PARAMETERS OR METHODOLOGY
- 5. STORMWATER MANAGEMENT AREAS SHOWN HAVE BEEN REVISED FROM THE ICMP'S / GREENWAY NOR LOCATIONS.
- WETLAND HAS BEEN RELOCATED/CHANGED FROM THE POSITION SHOWN IN THE GREENWAY NOR
- STORMWATER MANAGEMENT AREA NAMING CONVENTIONS SET BY ICMP TERMINOLOGY, ABREVIATED TO THE FOLLOWING:
 - G = GREENWAY WETLAND POND

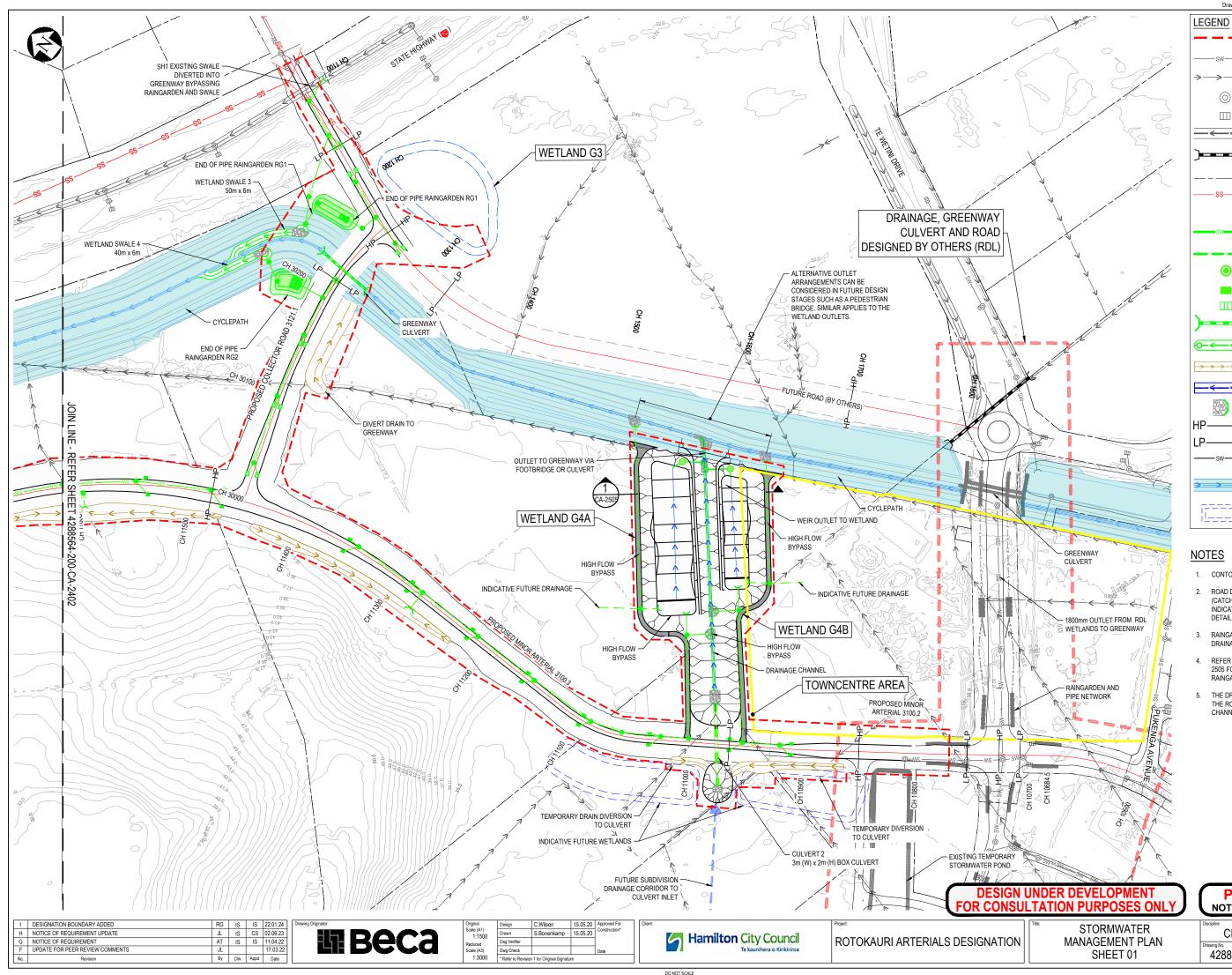
 - D = DEVICE "7" = DEVICE REFERENCE ID
 - "A" = WHERE ORIGINAL WETLAND HAS BEEN SPLIT UP
- ROTOKAURI FLOOD EXTENTS SHOWN ON THIS DRAWING ARE BASED ON THE GREENWAY NOR WETLAND LAYOUT AND SO WILL CHANGE WITH THE RELOCATION OF THESE UNDER THE PROPOSED ROAD DESIGNATION. THE RELOCATION CONSERVES STORAGE VOLUME SO OTHER THAN IN THE WETLANDS THEMSELVES THE FLOOD EXTENTS WILL BE SIMILAR TO THAT SHOWN ON THIS DRAWING.

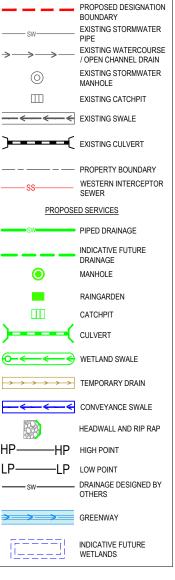












NOTES

- CONTOURS BASED ON 2019 HCC LIDAR
- 2. ROAD DRAINAGE LAYOUT (CATCHPITS/RAINGARDENS/MANHOLES) IS INDICATIVE AND SPACINGS SUBJECT TO DETAILED DESIGN.
- RAINGARDENS ONLY REQUIRED WHERE 3 DRAINAGE DISCHARGES TO THE GREENWAY
- REFER DRAWINGS 4288564-200-CA-2500 TO 2505 FOR CARRIAGEWAY DRAINAGE / RAINGARDEN / CULVERT TYPICAL DETAILS.
- THE DRAINAGE ARRANGEMENT SHOWN FOR THE ROADS ASSUMES THE GREENWAY CHANNEL HAS BEEN CONSTRUCTED.

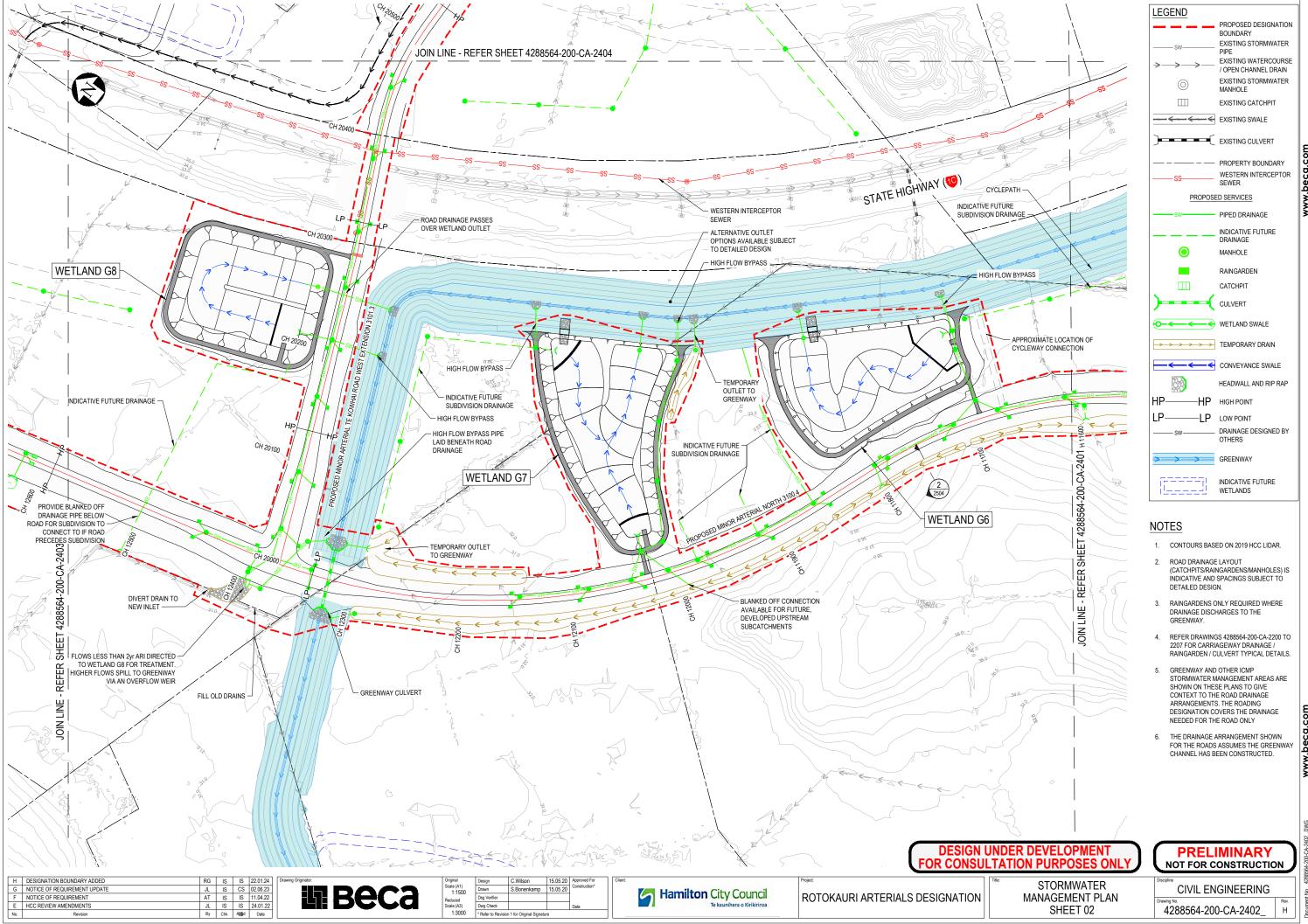
4288564-200-CA-2401_

PRELIMINARY

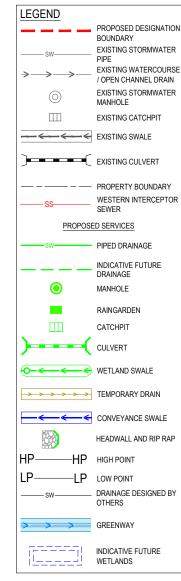
NOT FOR CONSTRUCTION

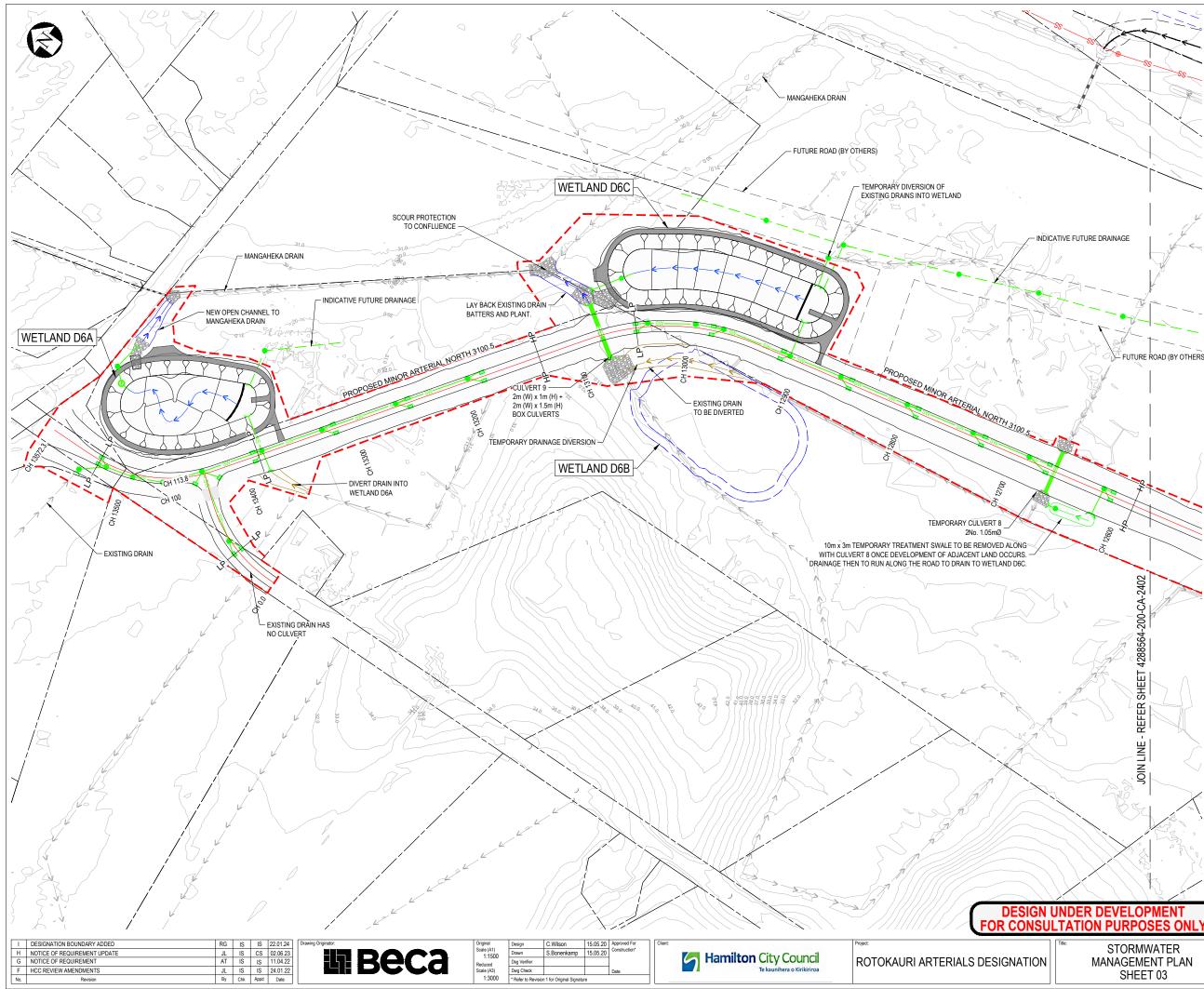
CIVIL ENGINEERING

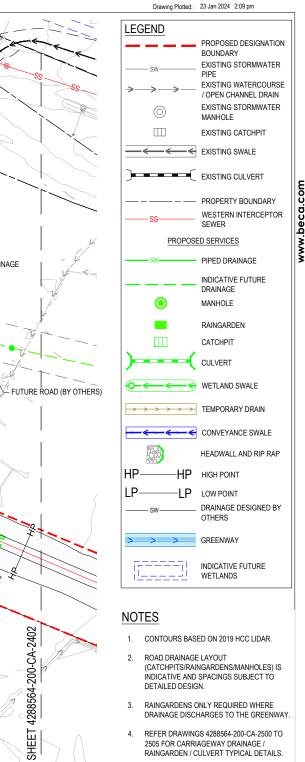
IF IN DOUBT ASK











- 4. REFER DRAWINGS 4288564-200-CA-2500 TO 2505 FOR CARRIAGEWAY DRAINAGE / RAINGARDEN / CULVERT TYPICAL DETAILS.
- 5. GREENWAY AND OTHER ICMP STORMWATER MANAGEMENT AREAS ARE SHOWN ON THESE PLANS TO GIVE CONTEXT TO THE ROAD DRAINAGE ARRANGEMENTS. THE ROADING DESIGNATION COVERS THE DRAINAGE NEEDED FOR THE ROAD ONLY
- THE DRAINAGE ARRANGEMENT SHOWN FOR THE ROADS ASSUMES THE GREENWAY CHANNEL HAS BEEN CONSTRUCTED. 6.

ca.co

STORMWATER MANAGEMENT PLAN SHEET 03

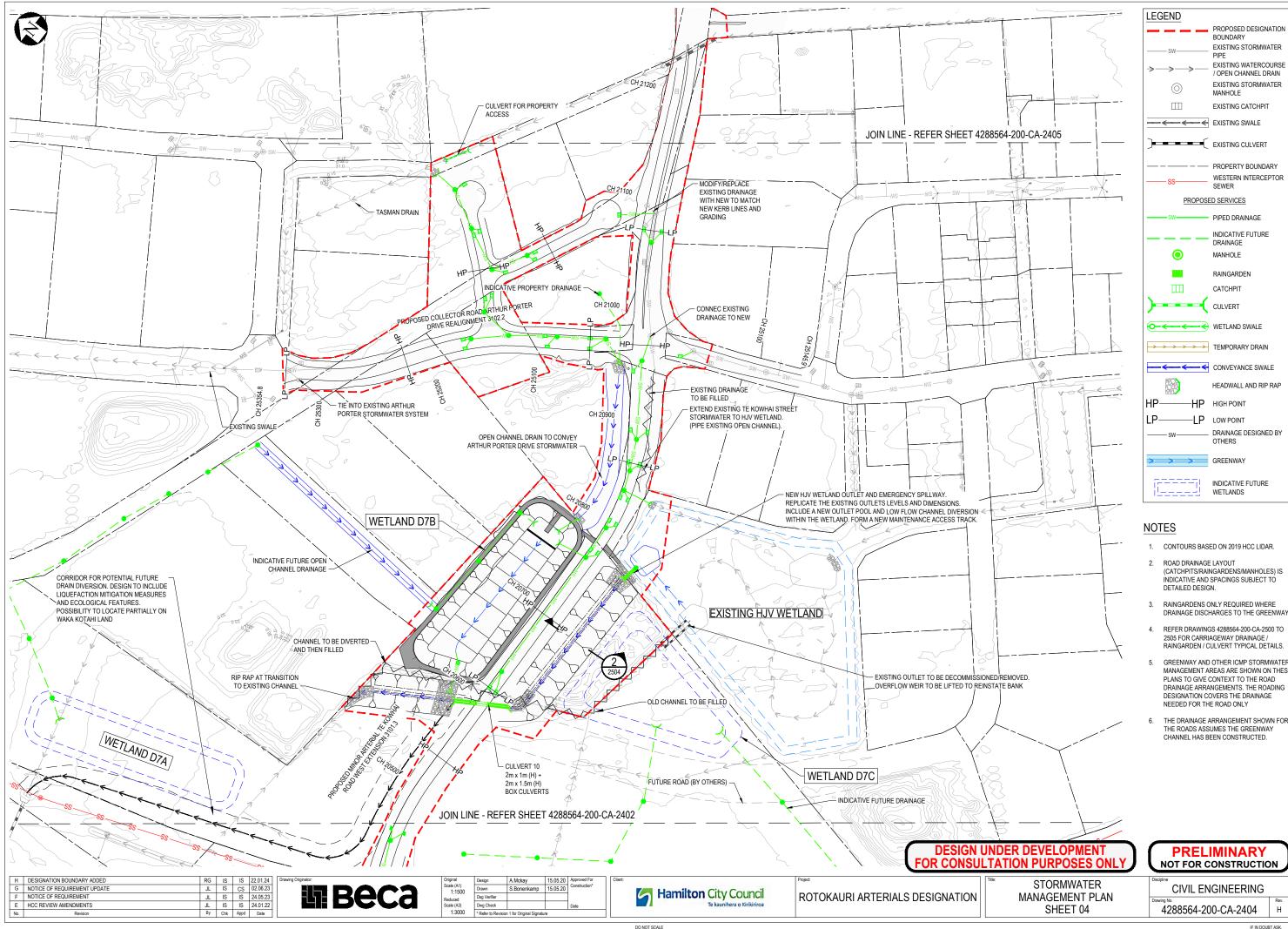
REFER

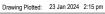
JOIN LINE -

CIVIL ENGINEERING 4288564-200-CA-2403

PRELIMINARY

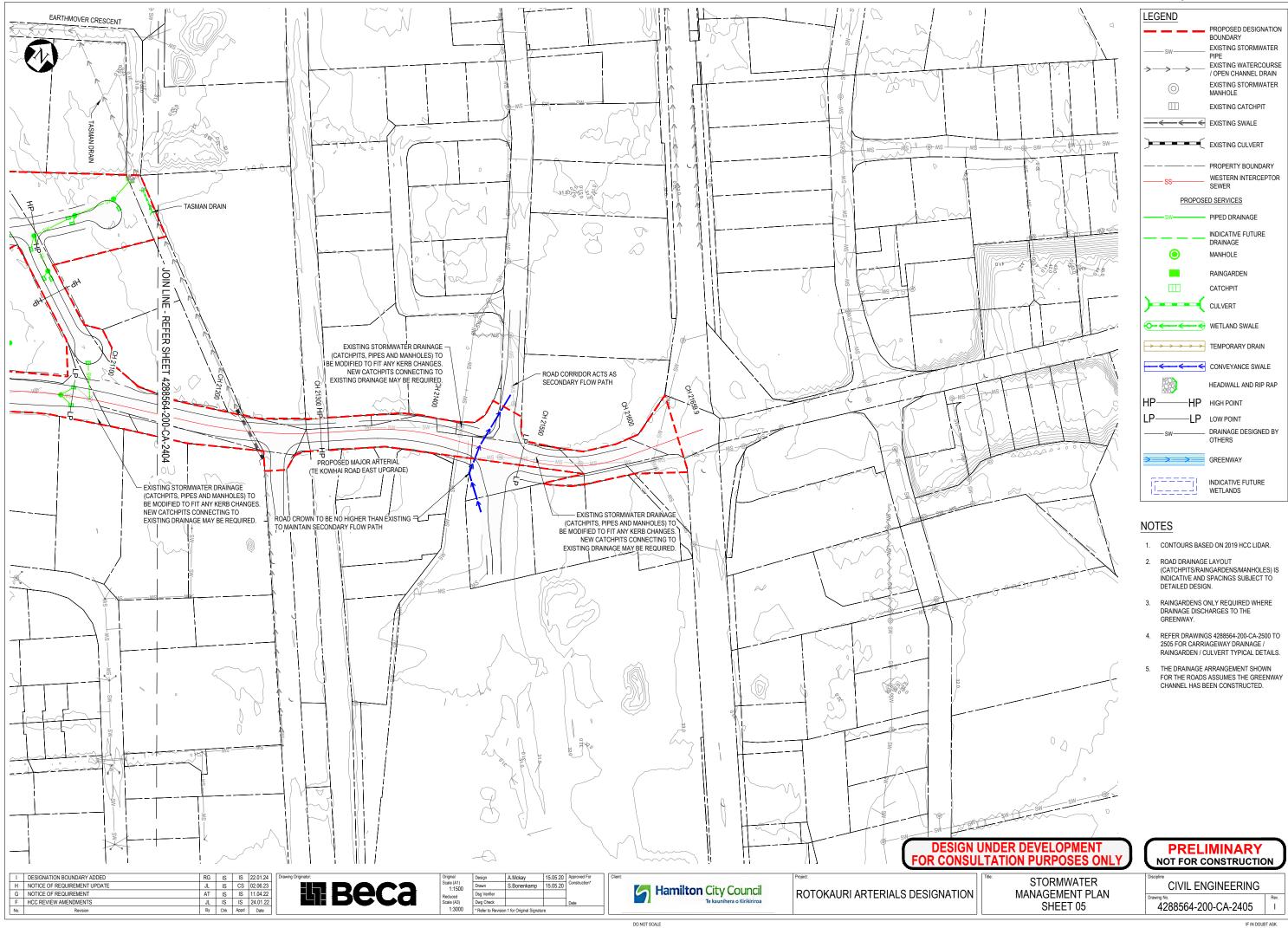
NOT FOR CONSTRUCTION



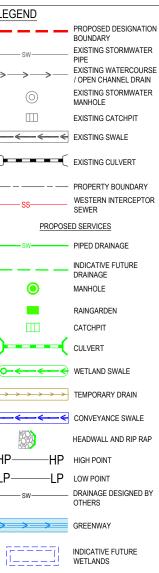


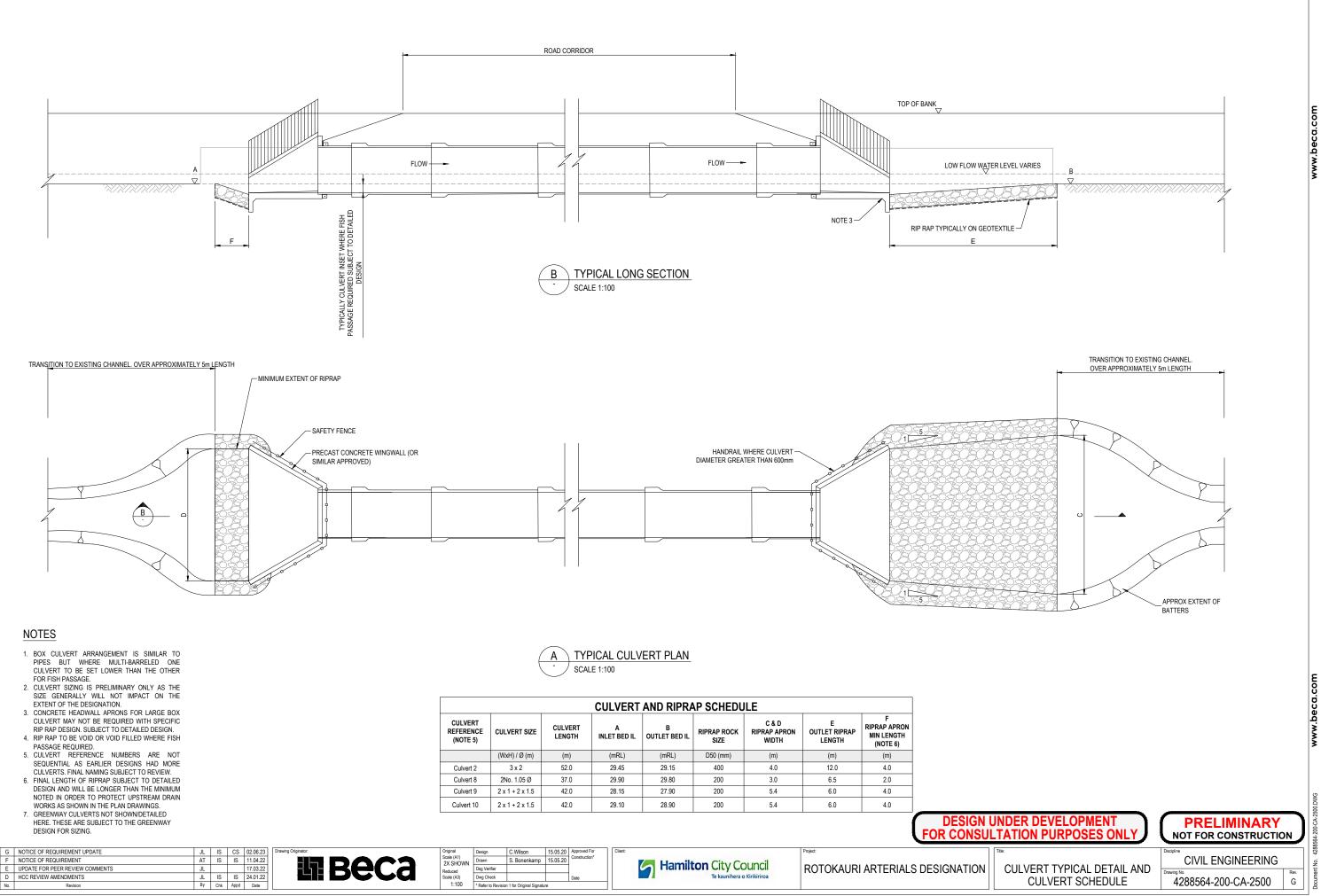
- MANAGEMENT AREAS ARE SHOWN ON THESE
- THE DRAINAGE ARRANGEMENT SHOWN FOR

beca



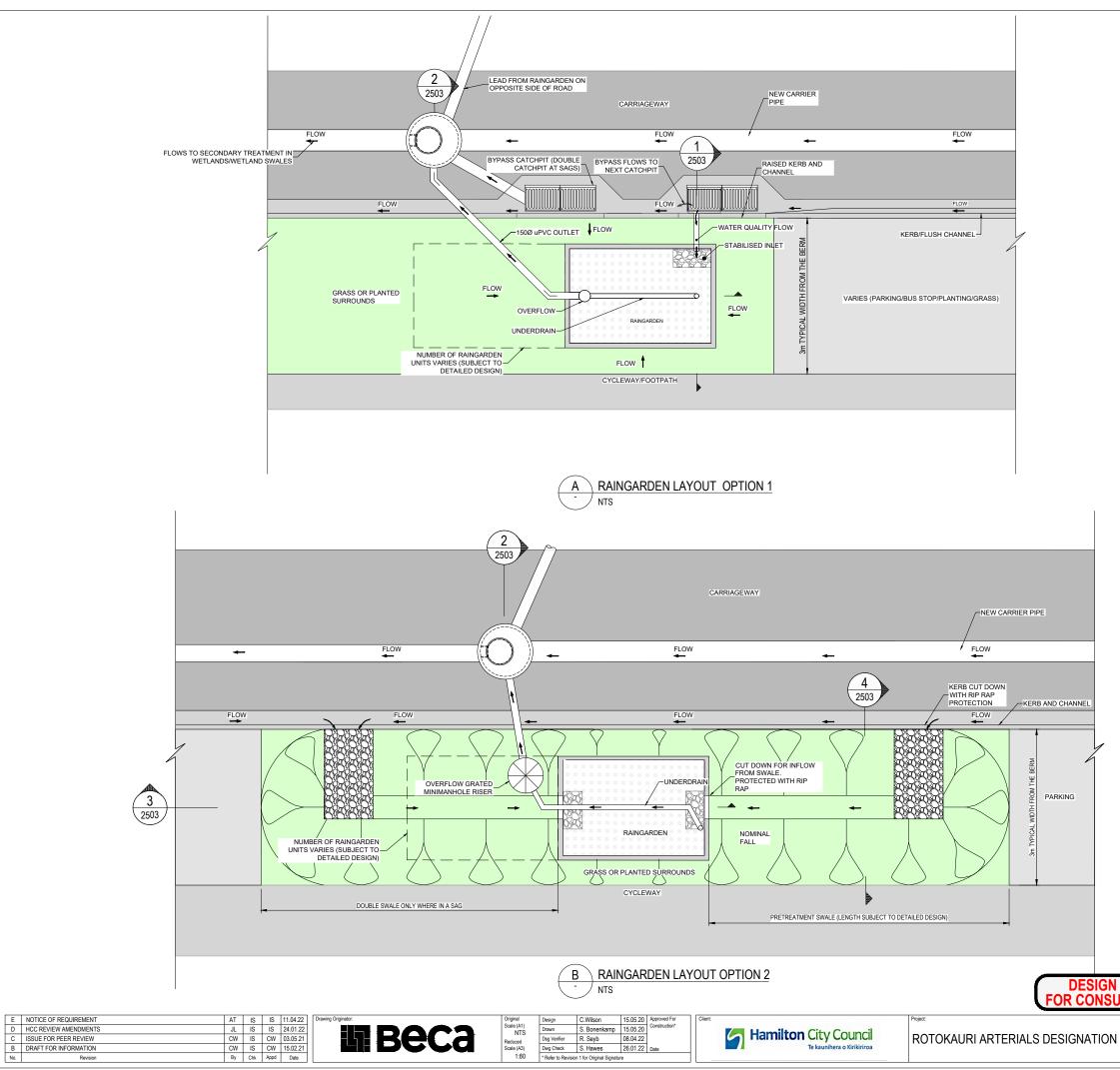






No.

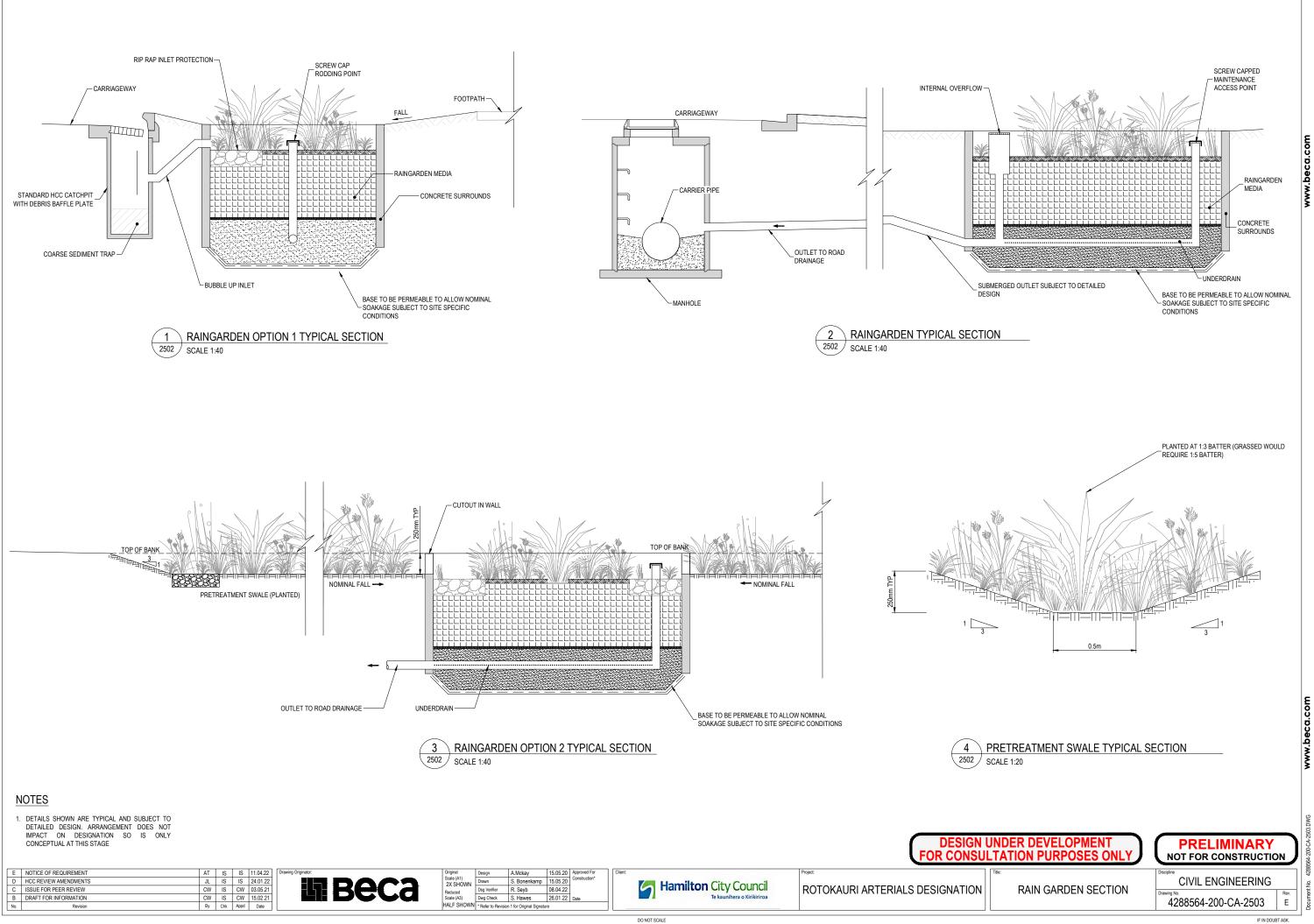
IF IN DOUBT ASK

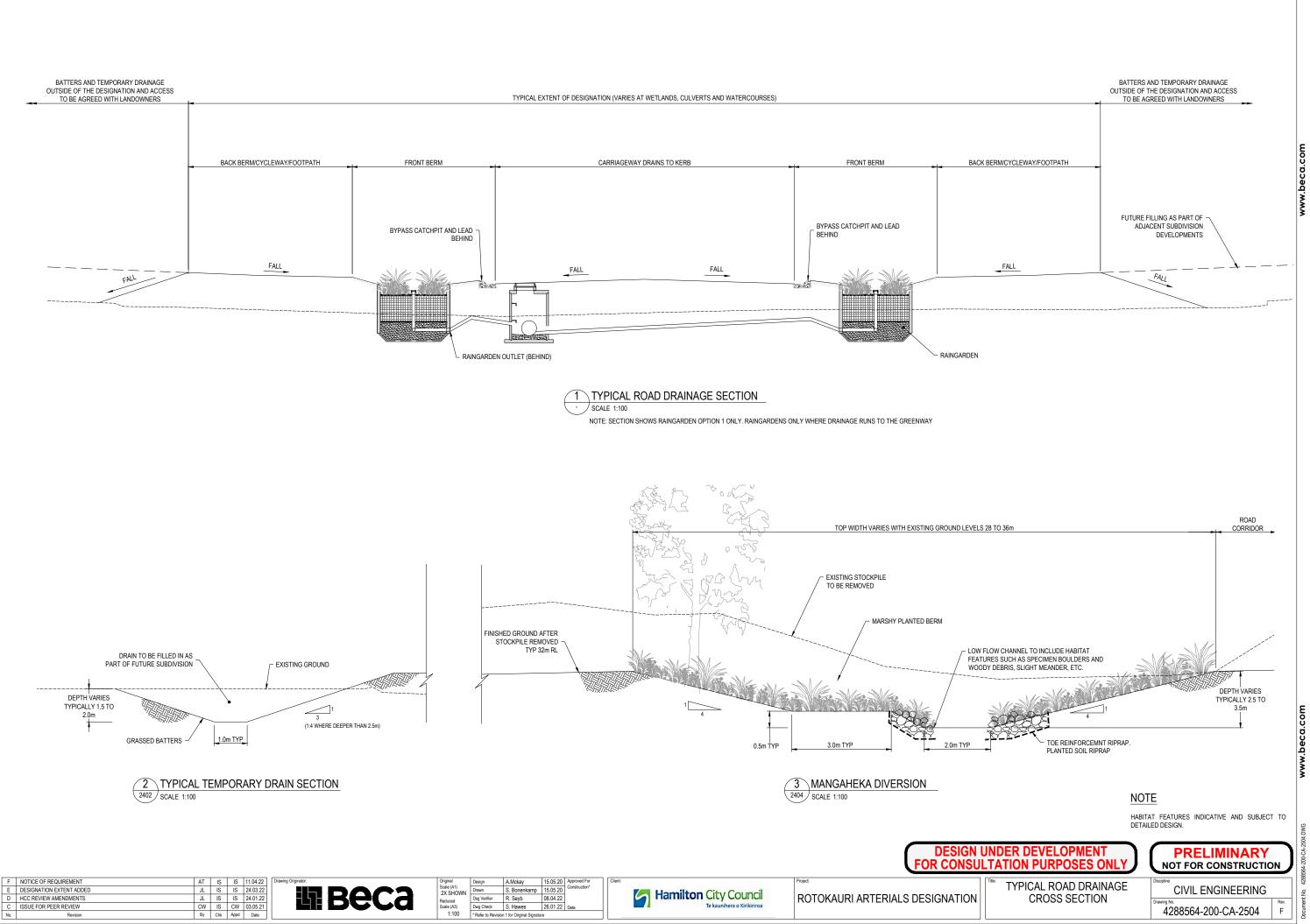


NOTES

1. DETAILS SHOWN ARE TYPICAL AND SUBJECT TO DETAILED DESIGN. ARRANGEMENT DOES NOT IMPACT ON DESIGNATION SO IS ONLY CONCEPTUAL AT THIS STAGE

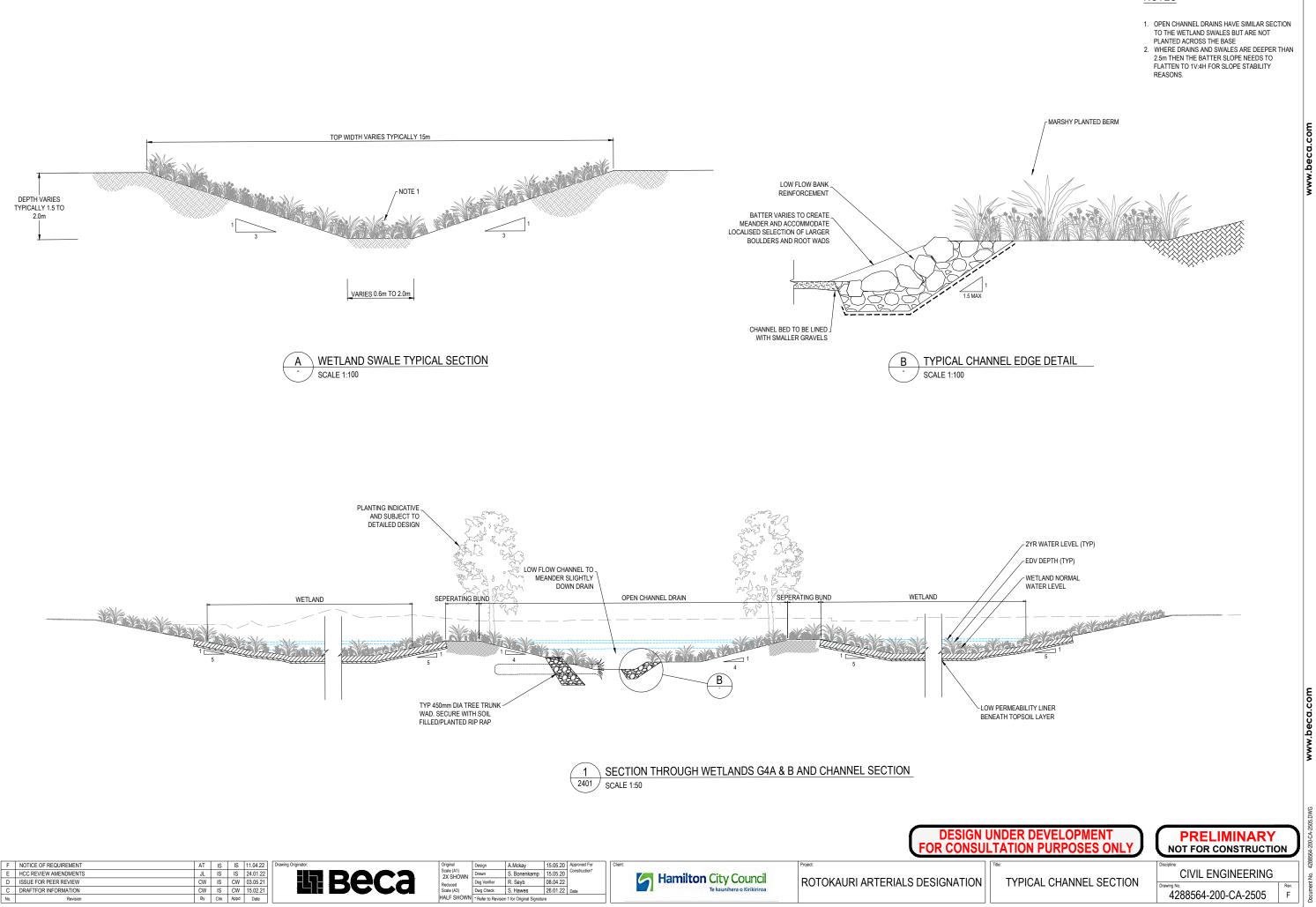




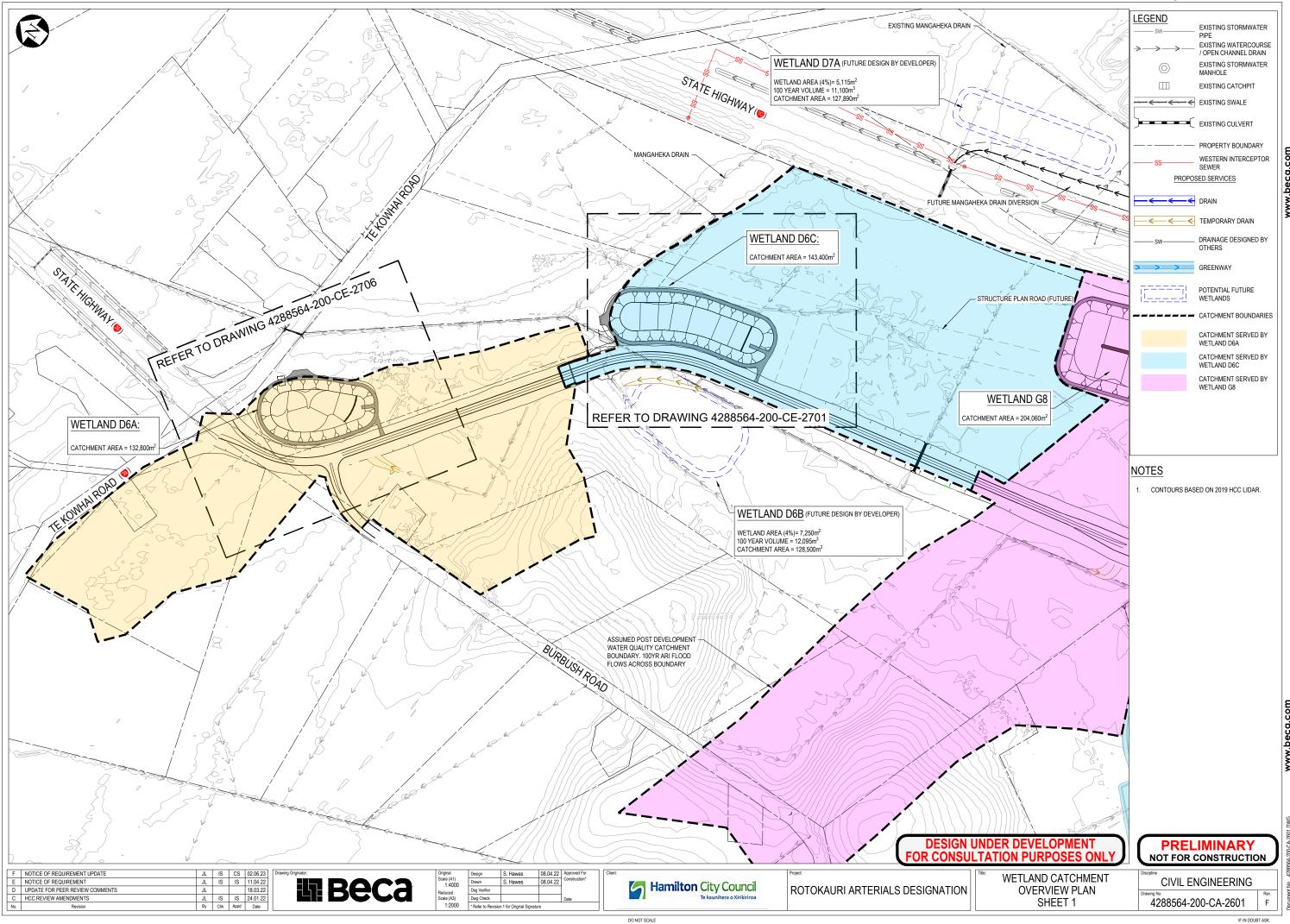


IF IN DOUBT AS

Drawing Plotted: 31 May 2023 3:43 pm

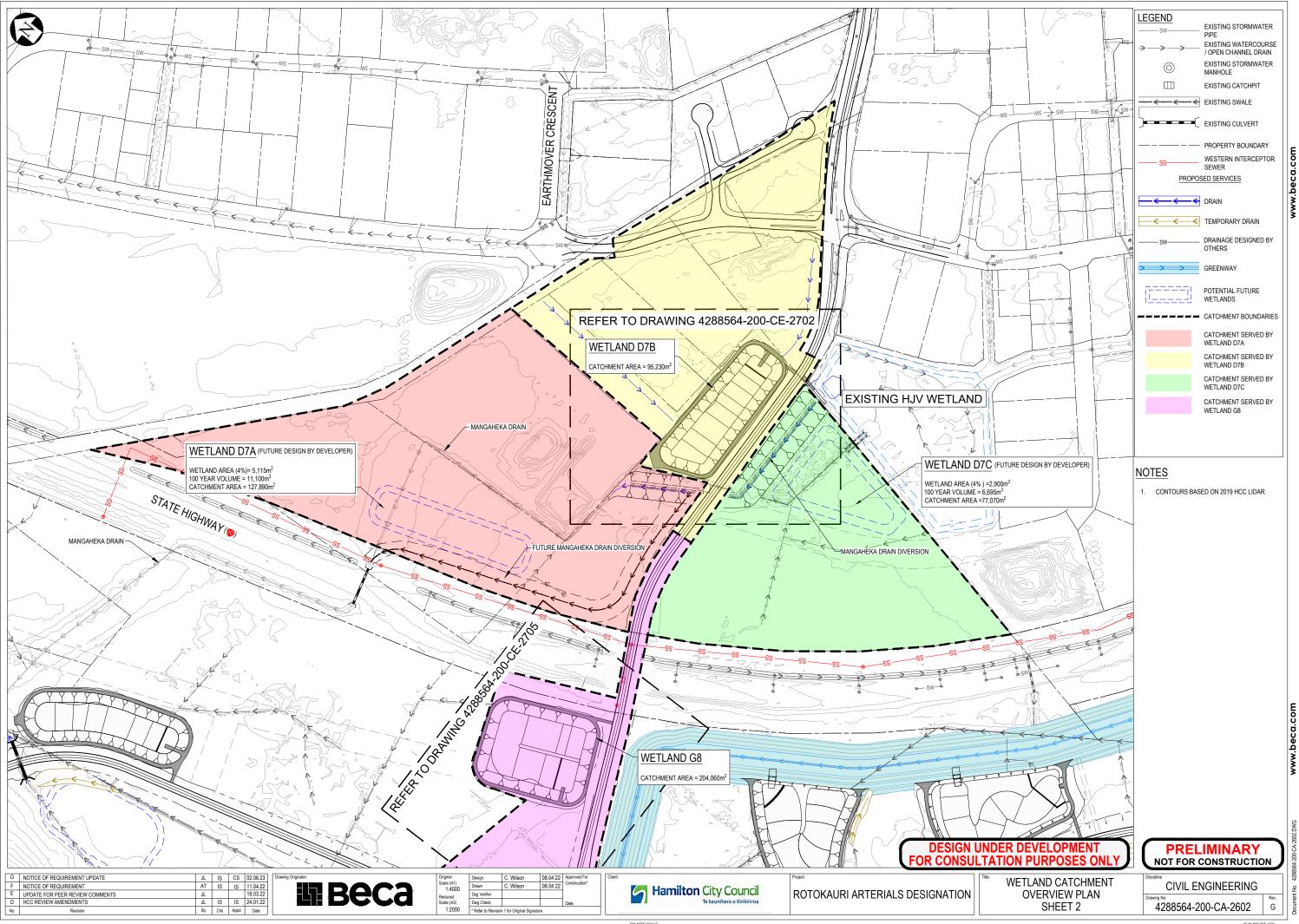


NOTES

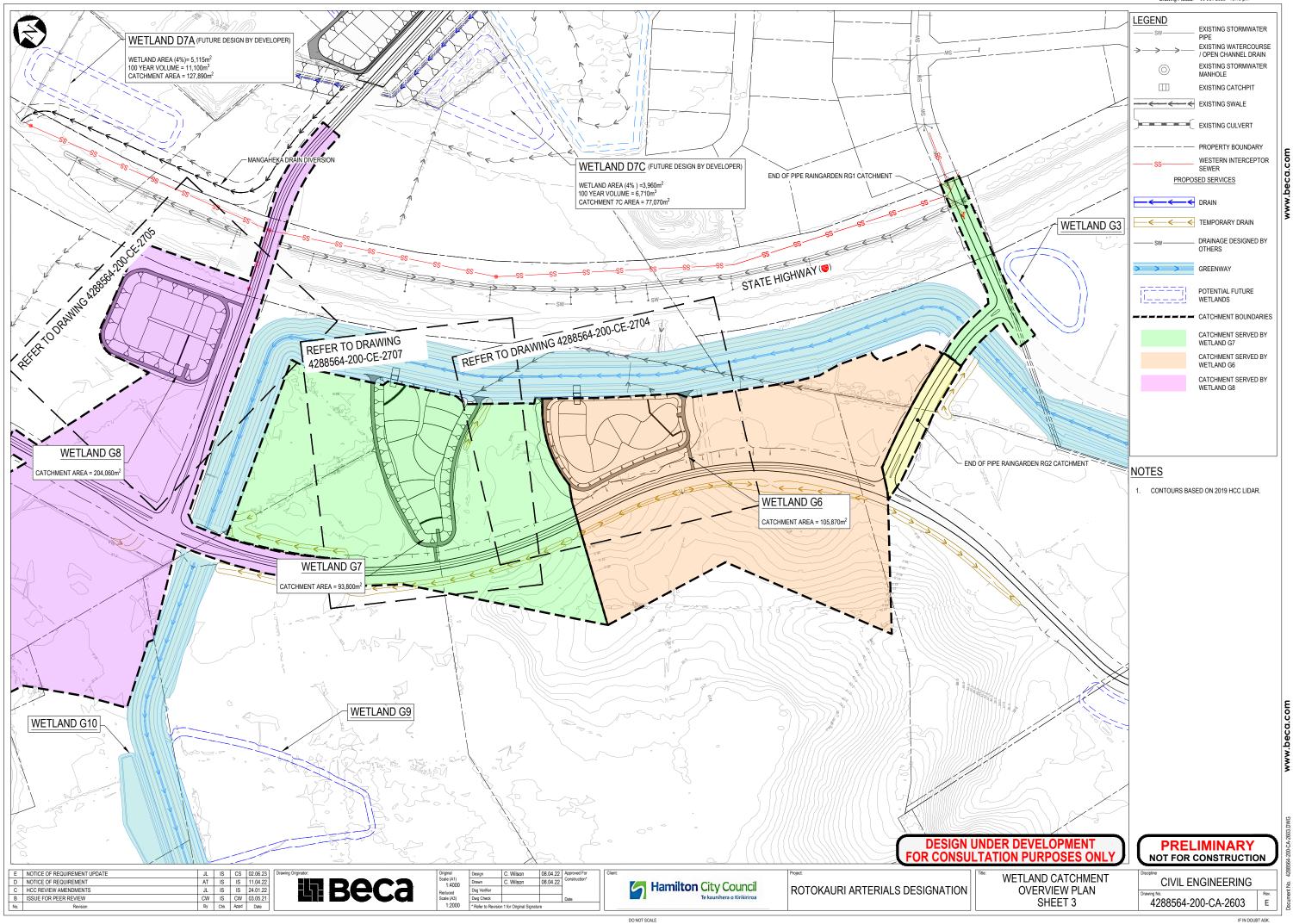


Drawing Plotted: 06 Jun 2023 11:16 pm

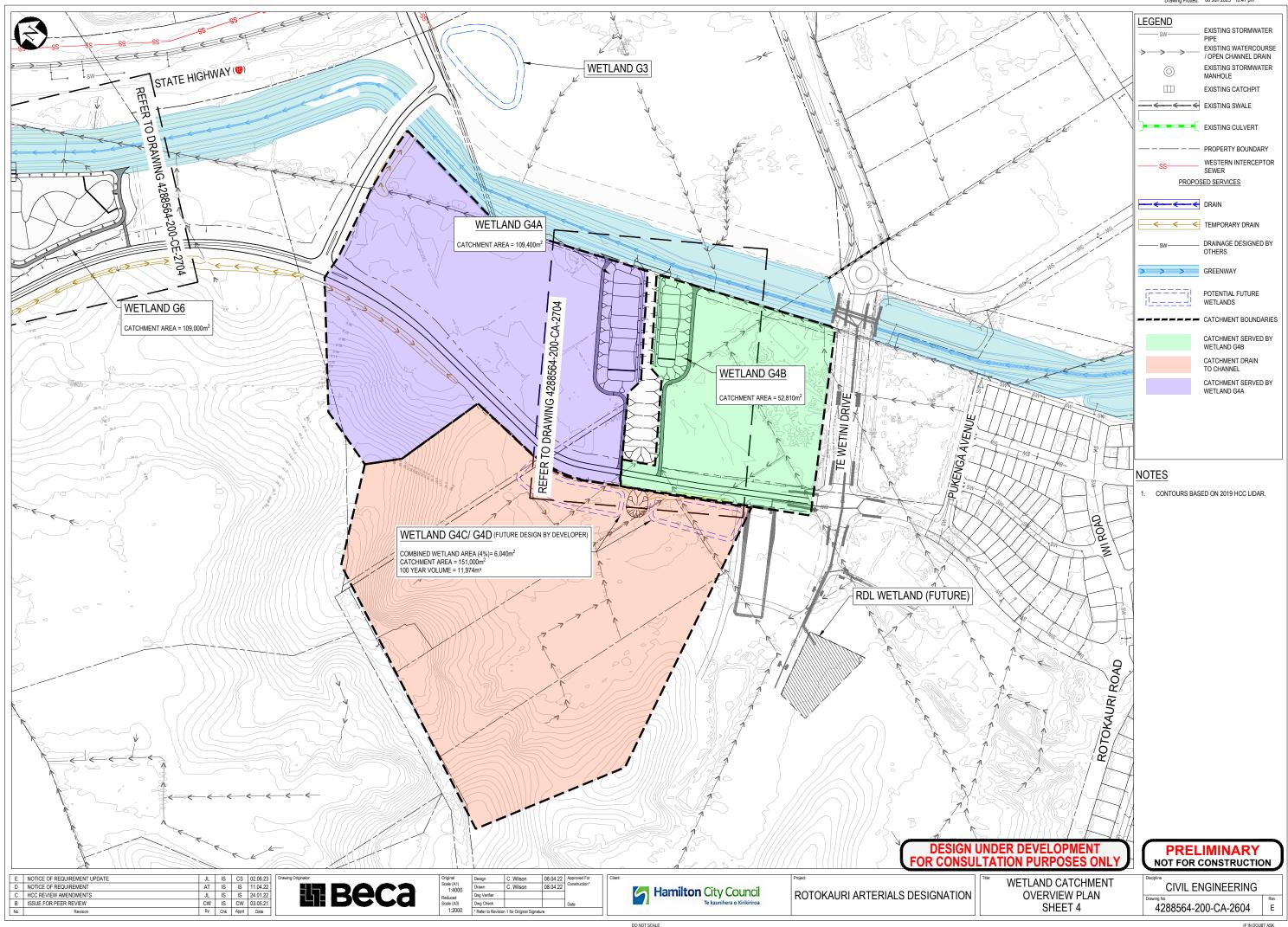
ww.beca.com







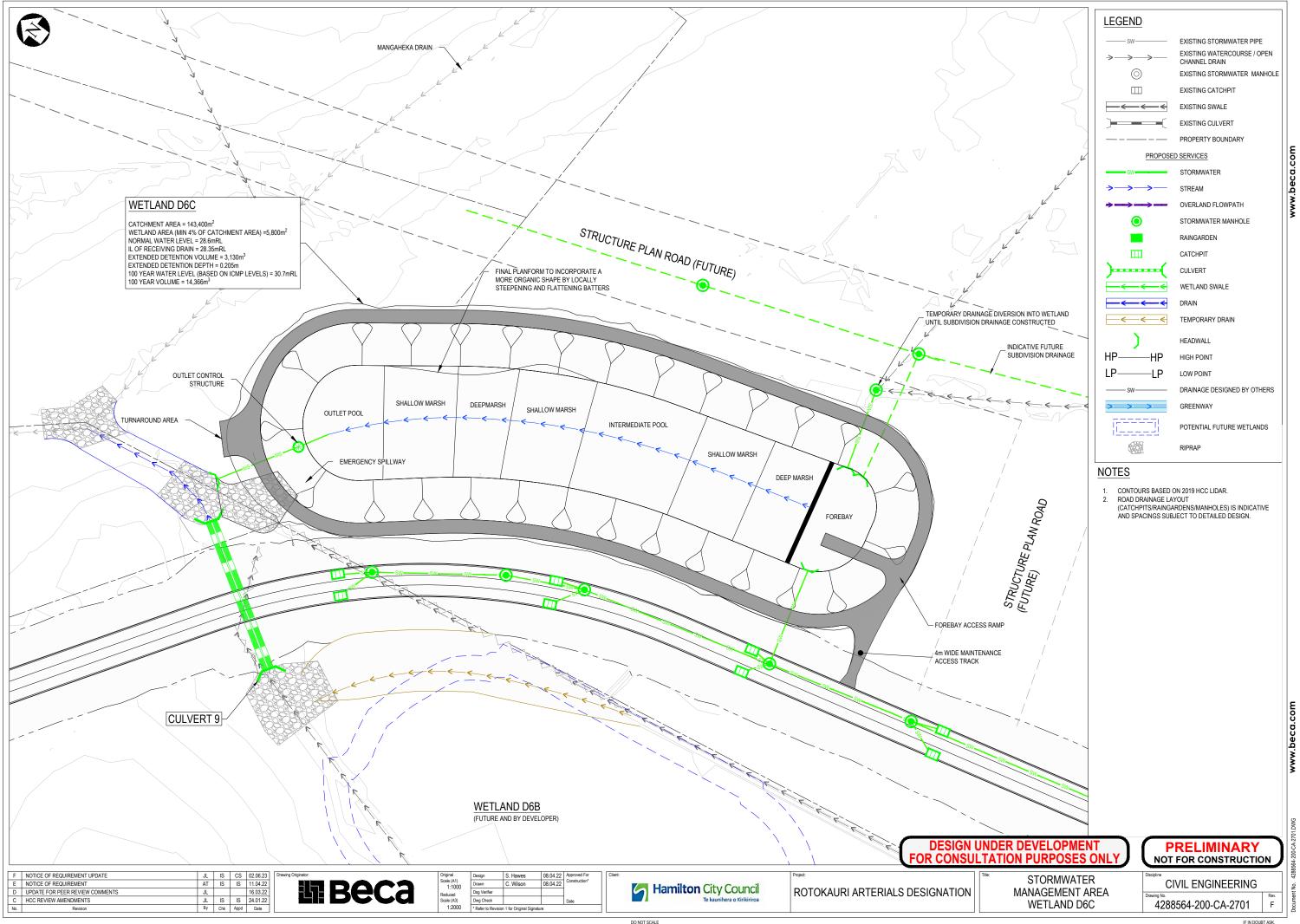
Drawing Plotted: 06 Jun 2023 10:46 pm



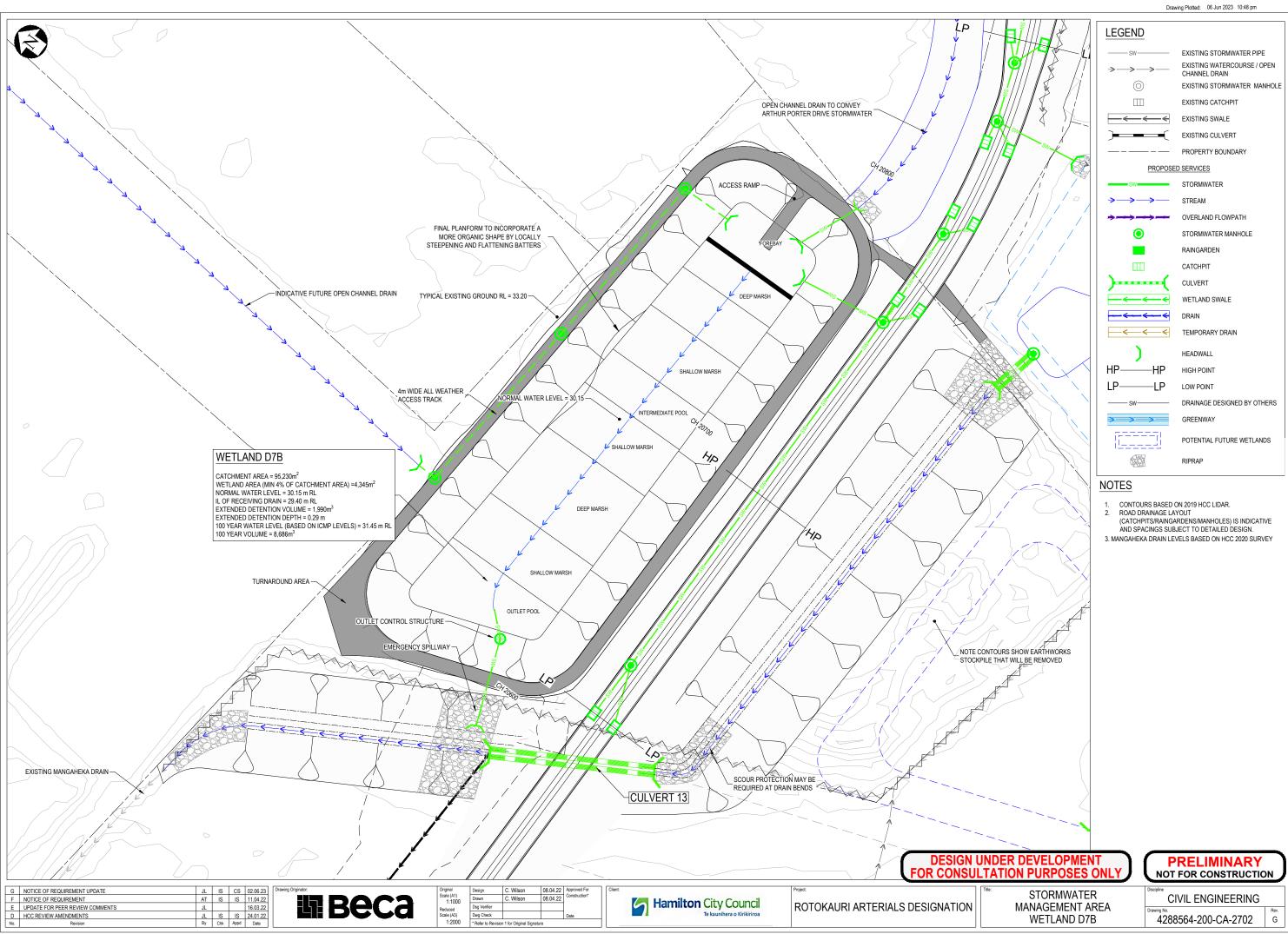
www.beca

www.beca.com

curnent No. 4288564-200-CA-2604.DV

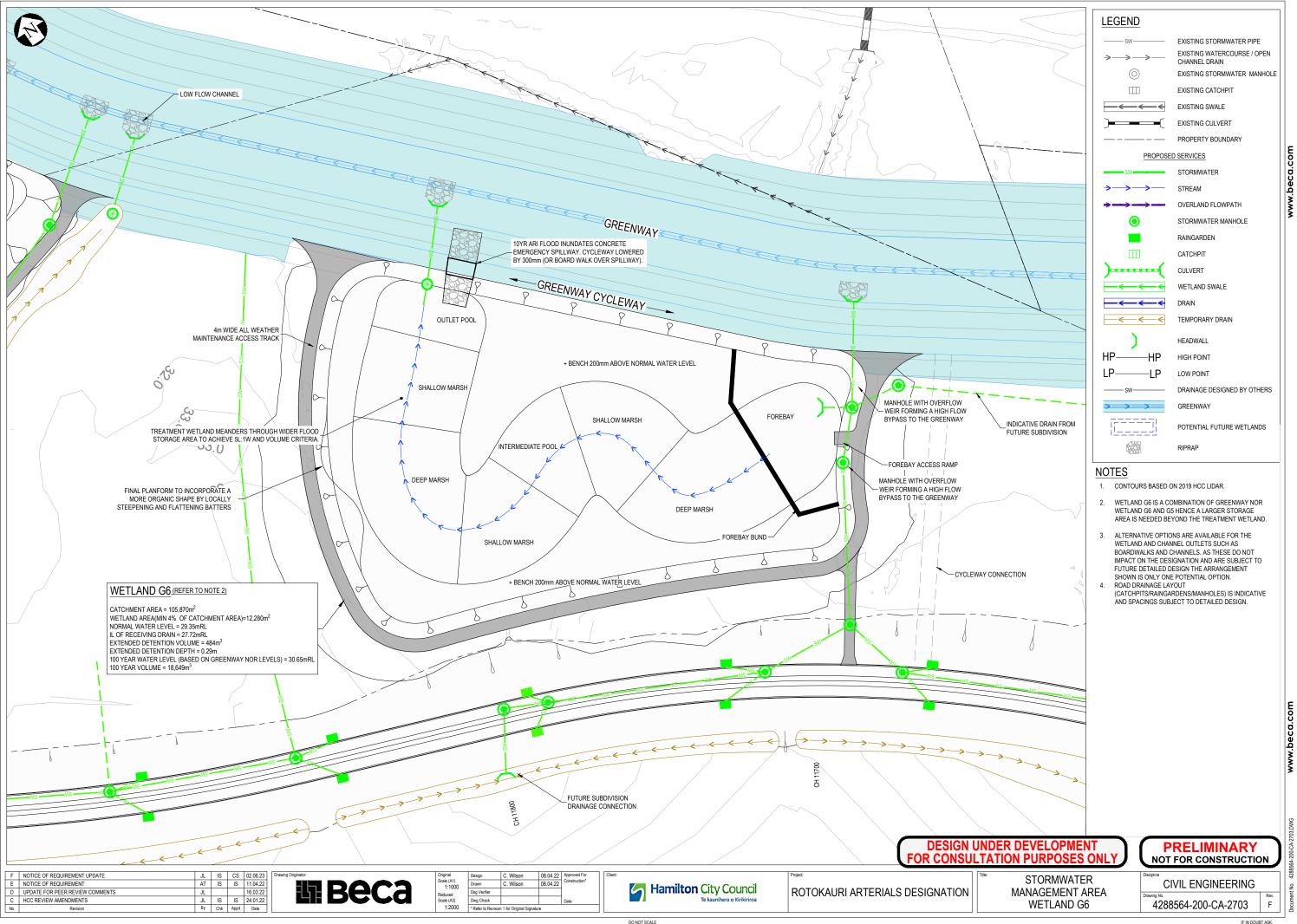


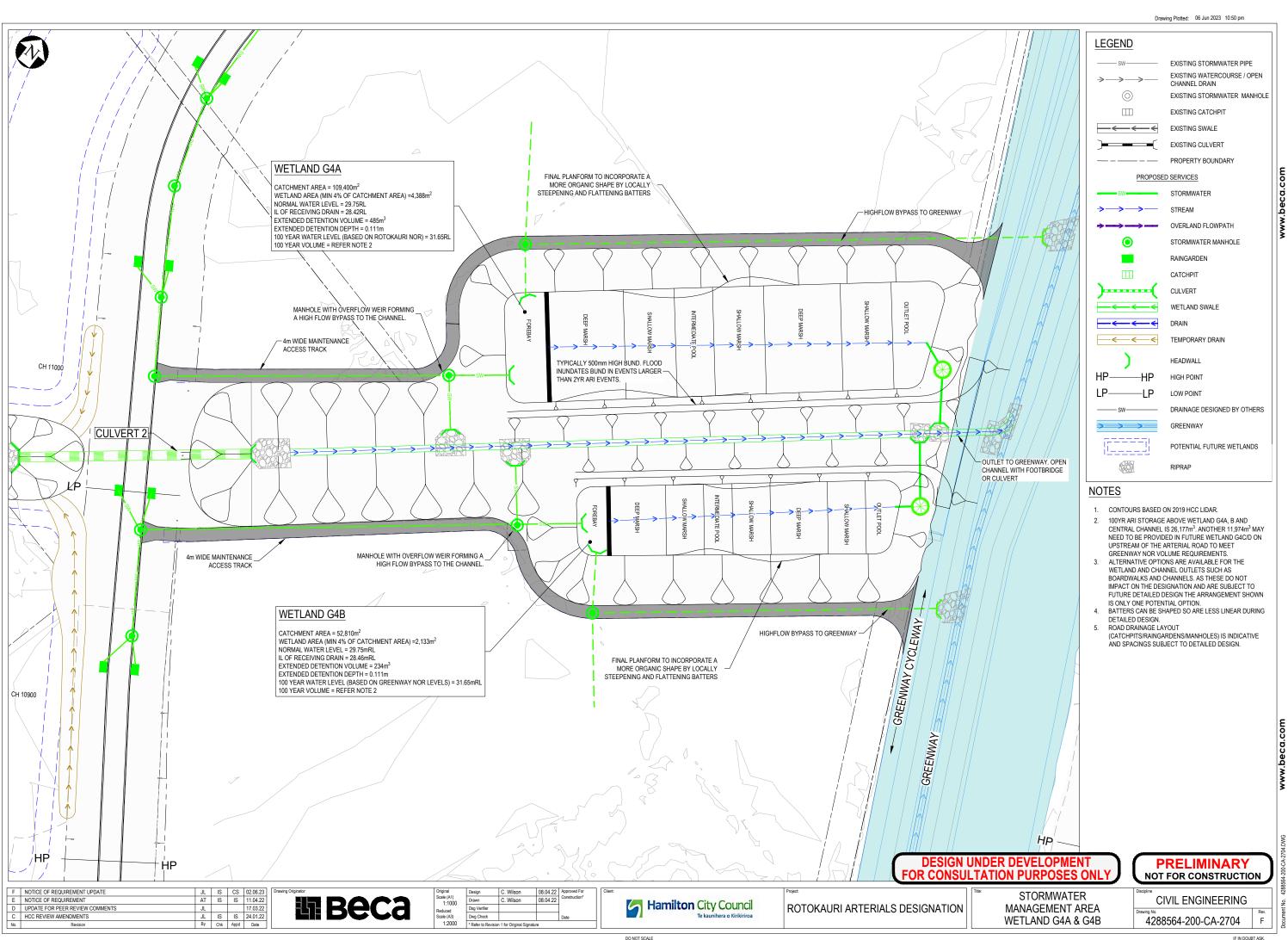
IF IN DOURT ASK



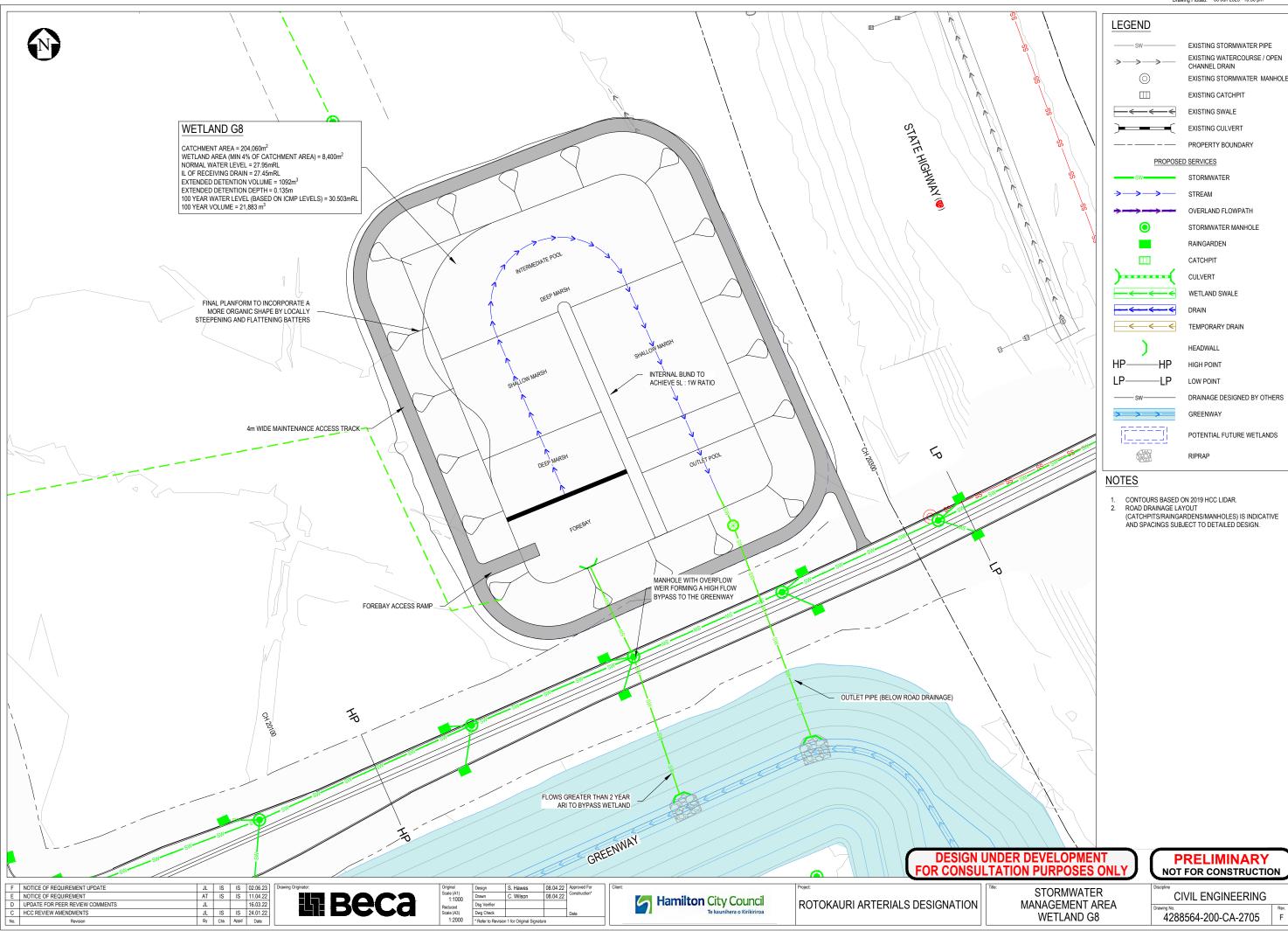


ww.beca.com

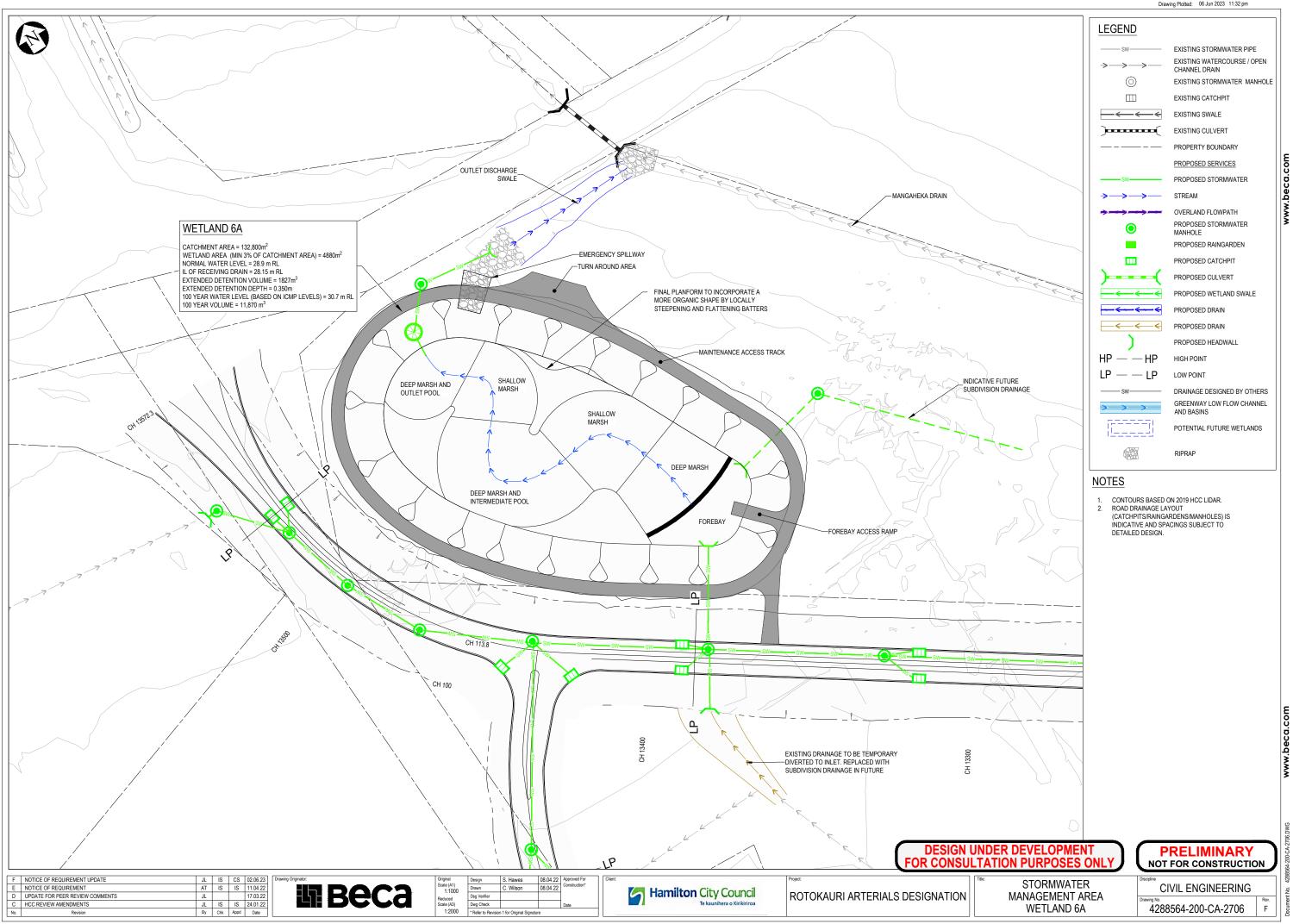


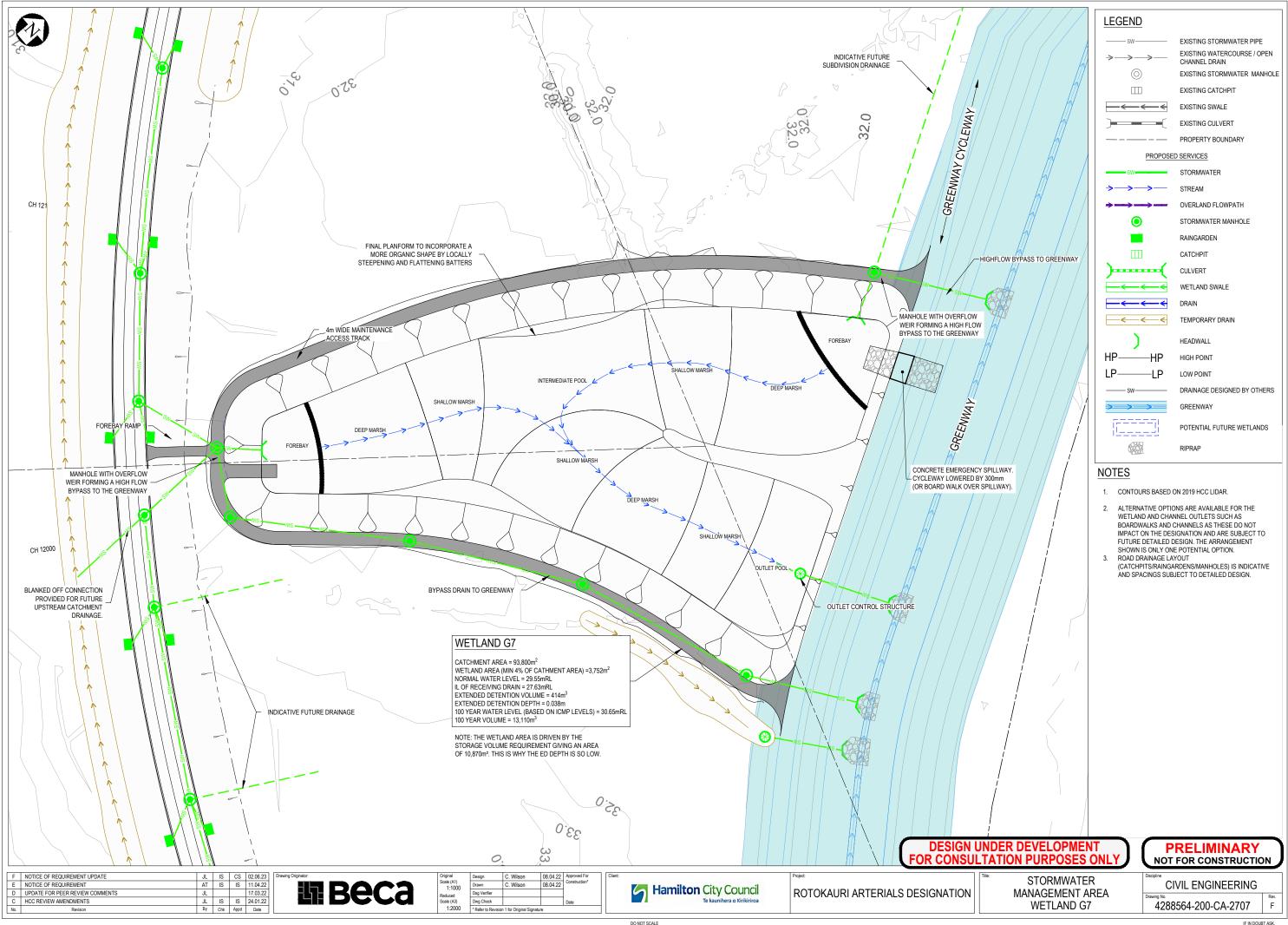


IF IN DOUBT ASK









www.beca.com

www.beca.com