

# RIVERWALK

## STAGE 39

### GEELONG ROAD, WERRIBEE WYNDHAM CITY COUNCIL

FOR



## CIVIL DRAWINGS ROADS AND DRAINAGE

DCE REF: 10939  
MELWAY REF: 205 G10

Drawing File: C:\2d\_Synergy\data\SYNERGY-MEL\10939-Riverwalk - Stage 39\_2407\Design\ACAD\Lisp\10939\205 G10.dwg - PS  
Date/Time: Fri Sep 30, 2022 - 3:00pm --Print--

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**PRELIMINARY**

**GENERAL NOTES**

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124.9 (AMENDED) GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED VPA (EDCM) & WYNDHAM CITY COUNCIL SPECIFICATION AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE CITY ENGINEER OR HIS REPRESENTATIVE.
- A PRE-COMMENCEMENT MEETING WITH COUNCIL IS TO BE ARRANGED PRIOR TO COMMENCEMENT OF THE WORKS.
- ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING SEVEN DAYS PRIOR TO COMMENCEMENT OF THE WORKS.
- TBMS TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBMS THEREAFTER.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES.
- THE CONTRACTOR SHALL ENSURE THAT WORKS WITHIN ROADWAYS ARE TO CONFORM TO THE 'CODE OF PRACTICE FOR WORKSITE SAFETY - TRAFFIC MANAGEMENT (2010)' UNDER THE ROAD MANAGEMENT ACT 2004 AND THE ROAD SAFETY ACT 1986. THE CONTRACTOR SHALL ALSO ENSURE THAT WORKS ARE TO THE APPROVAL OF THE COORDINATING ROAD AUTHORITY UNDER THE ROAD MANAGEMENT ACT 2004.
- PREPARATION OF THE TRAFFIC MANAGEMENT PLAN AND ITS IMPLEMENTATION UNDER A TRAFFIC GUIDANCE SCHEME SHALL ONLY BE UNDERTAKEN BY A CONTRACTOR OR SUBCONTRACTOR SUITABLY PREQUALIFIED WITH VICROADS. THE CONTRACTOR IS RESPONSIBLE FOR GAINING APPROVAL OF THE TRAFFIC MANAGEMENT PLAN FROM VICROADS/COUNCIL AT LEAST 7 DAYS PRIOR TO WORKS COMMENCING OR EARLIER IF REQUIRED. THE TRAFFIC MANAGEMENT PLAN AND TRAFFIC GUIDANCE SCHEME (INCLUDING ANY ACCESS REQUIREMENTS) SHALL BE APPROVED BY THE COORDINATING ROAD AUTHORITY APPROPRIATE TO THE PROJECT IN ACCORDANCE WITH SECTION 36 OF THE ROAD MANAGEMENT ACT 2004.
- THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
- ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- FILL AREAS IN EXCESS OF 300mm ARE TO BE STRIPPED OF TOPSOIL, FILLED, AND TOPSOIL REPLACED TO OBTAIN THE FINAL FILL LEVELS SHOWN ON THE DRAWINGS. ALL FILLING MUST ENSURE LEVEL 1 GEOTECHNICAL SUPERVISION IS MAINTAINED AS PER CLAUSE 8.2 OF AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS". STRUCTURAL FILLING MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL PRIOR TO PLACEMENT.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE OR COMMON PROPERTY UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO TOPSOIL IS TO BE REMOVED FROM SITE. SURPLUS SOIL MUST BE MADE AVAILABLE FOR LOTS AND RESERVES.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL AND CONSTRUCTED IN LAYERS 150MM THICK WITH COMPACTION IN ACCORDANCE WITH AS3798. PRIOR TO THE PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENTS, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.
- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
- AT LEAST 3 DAYS BEFORE COMMENCING EXCAVATION OF TRENCHES IN EXCESS OF 1.5m DEPTH, A COMPLETED "NOTICE OF INTENTION TO COMMENCE TRENCHING OPERATIONS" FORM SHALL BE SENT TO WORKSAFE VICTORIA. THE NOMINATED SUPERVISOR SHALL BE SUITABLY QUALIFIED IN ACCORDANCE WITH VICTORIAN OHS ACT 1985 & COMMONWEALTH OHS CODE OF PRACTICE 2008.
- NO BLASTING TO BE PERMITTED.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE ENGINEER.
- ALL DISTURBED SURFACES SHOULD BE OVER EXCAVATED BY 150mm, TOP SOILED WITH MINIMUM 150mm OF LOCAL TOP SOIL AND BITUMEN STRAW HYDROSEEDDED.
- ALL TOPSOIL TO BE 100mm (MIN) DEPTH, BE FREE OF CLAY, STONES, LOGS, WEED AND OTHER PERISHABLE MATERIAL WHICH IS NOT SUITABLE FOR PLANTING OF LAWNS IN ACCORDANCE WITH VPA AND WCC GUIDELINES.
- ALL BLOCKS ARE TO SURFACE GRADE WITH A MINIMUM FALL OF 1 IN 150 ALONG THE LOW SIDE BOUNDARY TO THE POINT OF DISCHARGE.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- ALL CHAINAGES REFER TO ROAD RESERVE CENTRELINES EXCEPT:
  - IN COURT HEADS WHERE CHAINAGES REFER TO LIP OF KERB
  - KERB RETURNS WHERE CHAINAGES REFER TO LIP OF KERB.
- GENERALLY 600B2 KERB AND CHANNEL IS TO BE USED THROUGHOUT THE SUBDIVISION. WHERE OTHER KERB TYPES ARE REQUIRED THEY ARE SPECIFICALLY SHOWN ON THE DRAWINGS. ALL KERB PROFILES IN ACCORDANCE WITH EDM 301.
- LIP OF ALL KERB RADII ARE 8.60m UNLESS OTHERWISE SHOWN.
- FOOTPATHS TO BE OFFSET 50mm FROM THE TITLE BOUNDARIES.
- ALL FOOTPATHS TO BE IN ACCORDANCE WITH EDM STANDARD DRAWING 401, 402 AND 403.
- VEHICULAR CROSSINGS OF THE TYPE INDICATED ARE TO BE OFFSET FROM THE LOT BOUNDARY OR EASEMENT IN ACCORDANCE WITH EDM 501, 502 OR 503. UNLESS OTHERWISE SHOWN.

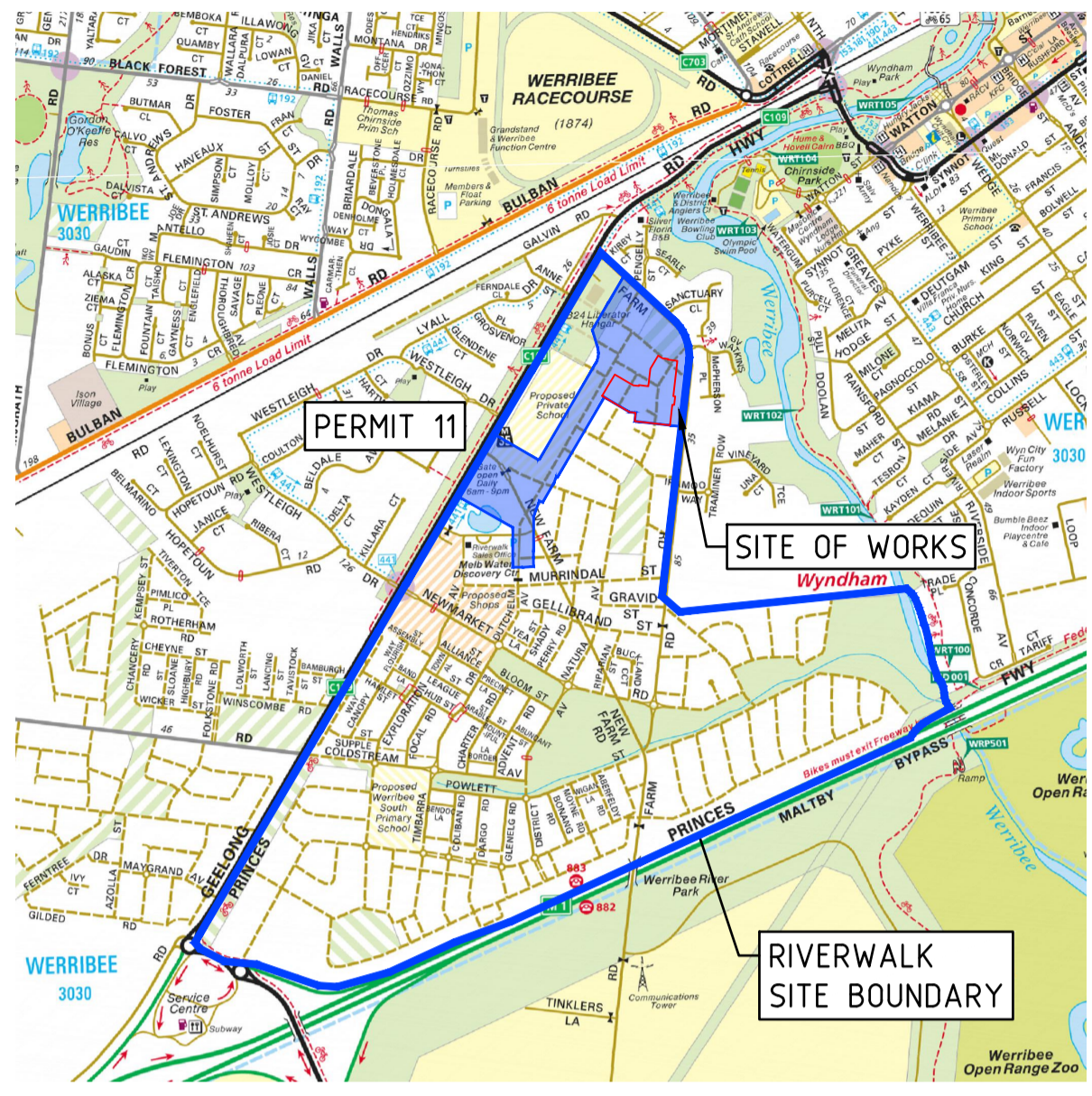
- PROVIDE LAYBACKS IN KERB TO ALL PRAM CROSSINGS IN ACCORDANCE WITH EDM 403. ASPHALT FILLETS/RAMPS ARE TO BE PROVIDED ON THE BASE COURSE ASPHALT TO REMOVE TRIPS AT ALL PEDESTRIAN CROSSING LOCATIONS.
- ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2, UNLESS SPECIFICALLY SHOWN OTHERWISE. LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT. TEMPORARY LINEMARKING USING ORDINARY PAINT IS TO BE APPLIED WHEN WEARING COURSE ASPHALT IS NOT APPLIED FOR A PERIOD OF TIME E.G. AT PRACTICAL COMPLETION. STREET SIGNS ARE REQUIRED TO SHOW STREET NUMBERS APPLICABLE TO EACH BLOCK. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
- THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS SHALL BE PROVEN ON SITE. THE APPROPRIATE AUTHORITY SHALL BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL EASEMENTS ARE 2.5m OR 3.0m WIDE DRAINAGE AND SEWERAGE EASEMENTS UNLESS OTHERWISE SHOWN.
- CENTRELINES OF ALL SEWERS WITHIN EASEMENTS ARE OFFSET FROM THE PROPERTY LINE IN ACCORDANCE WITH CURRENT MRWA VERSION WSA 02.2014, UNLESS OTHERWISE SHOWN.
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC OR FRC PIPES UNLESS OTHERWISE SHOWN. ALL RC PIPES UP TO AND INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED, INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN BE USED ON PIPES OVER 750mm DIA.
- WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. ALL DRAINS BEHIND KERBS ARE TO BE LAID AT THE OFFSET SPECIFIED IN THE COUNCIL SPECIFICATION. CURVED PIPES OF DIAMETER LESS THAN 600mm ON LARGE RADIUS CURVES ARE APPROVED BY COUNCIL SUBJECT TO COMPLIANCE WITH MANUFACTURER'S SPECIFICATION.
- ALL PIPE AND SERVICE TRENCHES THAT EXTEND UNDER ROADWAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND PARKING BAYS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- A.G. DRAIN TO BE LAID UNDER ALL KERB & CHANNEL AT THE DEEPER OF 750mm BELOW KERB OR TO THE BOTTOM OF THE SUBBASE LAYER, IN ACCORDANCE WITH EDM STANDARD DRAWING 202 AND GEOTECHNICAL REPORT G418.AB DATE 29/08/17 PROVIDED BY GROUND SCIENCE.
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM LOW CORNERS OF ALLOTMENTS UNLESS OTHERWISE SHOWN. ALL INLETS TO BE IN ACCORDANCE WITH EDM 701, 702, 703 AND 704.
- 100mm DIA. HOUSE DRAINS IN STREETS TO BE PLACED 6.0m FROM LOW CORNERS UNLESS OTHERWISE SHOWN.
- POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPINGS IS 1.0m. CONDUITS NOT TO BE LOCATED WITHIN 4.0m OF ALLOTMENT BOUNDARY, UNLESS OTHERWISE SHOWN.
- WATER TAPPINGS FOR LOTS SITUATED ON THE SAME SIDE AS THE WATERMAIN ARE TO BE LOCATED AT THE CENTRE OF THE LOT UNLESS OTHERWISE SHOWN. THE KERB IS TO BE MARKED "W" WITH AN ARROW POINTING TO THE TAPPING.
- GAS TO BE 50mm DIA. CLASS 12 P.V.C. & WATER CONDUITS TO BE 100 DIA. CLASS 12 P.V.C. SINGLE CONDUIT CONTAINING BOTH DW & NDW SERVICES LAID IN ACCORDANCE WITH WSA 03-2002 DUAL WATER SUPPLY SYSTEM STANDARD DRAWING WAT-1806-V
- ELECTRICITY CONDUITS ARE TO BE LAID IN ACCORDANCE WITH AUTHORITY REQUIREMENTS.

**SP AUSNET (GAS)**

- GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY TXU (GAS).
- EXCAVATION, SUPPLY AND PLACEMENT OF REQUIRED BACKFILL TO BE BY OTHERS.
- TWO WEEKS OF NOTIFICATION OF COMMENCEMENT OF EXCAVATION WORKS SHALL BE GIVEN TO THE DISTRICT CENTRE.
- THE CONTRACTOR SHOULD QUOTE PROJECT NO. 74267234 TO ENABLE MAIN LAYING TO BE COORDINATED WITH OTHER SERVICES.

**REINFORCED CONCRETE PIPE**

- ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-2007, LOADS ON BURIED PIPES.
- CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPLACED & RELAID AT CONTRACTOR'S COST.
- ALL PIPES TO BE CLASS '2' R.C. OR F.R.C RUBBER RING JOINT UNLESS NOTED OTHERWISE. PIPES GREATER THAN 750mm DIA MAY BE FLUSH JOINTED WITH EXTERNAL BANDS.



**LOCALITY PLAN**  
MELWAYS: 205 G10  
SCALE @ A1: 1:20,000

**DRAWING INDEX**

SHEET No.	DRAWING No.	DESCRIPTION
01	10939TD01	NOTES, LOCALITY PLAN AND DRAWING INDEX
02	10939TD02	TYPICAL DETAILS AND PAVEMENT DETAILS
03	10939TD03	TYPICAL SECTIONS
04	10939SP01	STAGING PLAN
05	10939DP01	DETAIL PLAN
06-08	10939ID01-03	INTERSECTION DETAILS, SHEETS 01 TO 03
09	10939LM01	SIGNAGE AND LINEMARKING PLAN
10-13	10939LS01-04	LONGITUDINAL SECTIONS, SHEETS 01 TO 04
14-20	10939XS01-07	ROAD CROSS SECTIONS, SHEETS 01 TO 07
21-25	10939DR01-05	DRAINAGE LONGITUDINAL SECTIONS, SHEETS 01 TO 05
26	10939PIT01	PIT SCHEDULE
27	10939FP01	FILL PLAN
28	10939EW01	EARTHWORKS PLAN
29	10939EF01	EXISTING FEATURES PLAN

**NOTE: END OF PAVEMENT WORKS**  
CONCRETE EDGE STRIP AND AG DRAIN TO BE INSTALLED TO THE END OF ALL PAVEMENT WORKS.

**NOTE: EXISTING SERVICES**  
ALL EXISTING SERVICES UNDER NEW AND PROPOSED ROAD PAVEMENT, FOOTPATH AND DRIVEWAYS TO BE FCR BACKFILLED.

**NOTE: EXISTING STRUCTURES**  
ALL EXISTING DRAINAGE PITS AND SEWER STRUCTURES WITHIN NEW WORKS ARE TO BE ADJUSTED TO MATCH NEW FINISHED SURFACE LEVELS.

**NOTE: TACTILE PAVING**  
TACTILE GROUND SURFACE INDICATORS (TGSI'S) ARE SHOWN INDICATIVELY AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH AS/NZS 1428.4.1:2009.

**CAUTION!**  
ALL EXISTING SERVICES IN THE VICINITY OF WORKS SHALL BE PROTECTED AND KEPT IN FUNCTIONAL STATE AT ALL TIMES DURING WORKS.

**BWARE!**  
NBN OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 1800 687 626.

**BWARE!**  
TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 9253 8263.

**BWARE!**  
TELSTRA MAJOR CABLES ARE IN THE VICINITY OF WORKS.

**BWARE!**  
DEVELOPMENT VICTORIA FTTH OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 03 9311 4575.

**WARNING!**  
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

**DANGER!**  
OVERHEAD ELECTRICITY TRANSMISSION LINES. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE LINES. THE CONTRACTOR MUST ADHERE TO ALL "NO GO ZONE" REQUIREMENTS OF THE POWER AUTHORITY.

**WARNING!**  
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

**WARNING!**  
**BWARE OF ASBESTOS!**  
SOME UNDERGROUND SERVICES MAY BE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD.

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**NOT TO BE USED FOR CONSTRUCTION**

Drawn	R.GUTIERREZ
Date	12/08/22
AN	3401091
Designed	P.NICHOLSON
Date	21/07/22
AN	3791013
Checked	S.RAJKOVIC
Date	08/09/22
AN	2951054
Approved	T.LIAKOPOULOS
Date	30/09/22
AN	889495

REV	DESCRIPTION	DATE	AMEND	APP'D
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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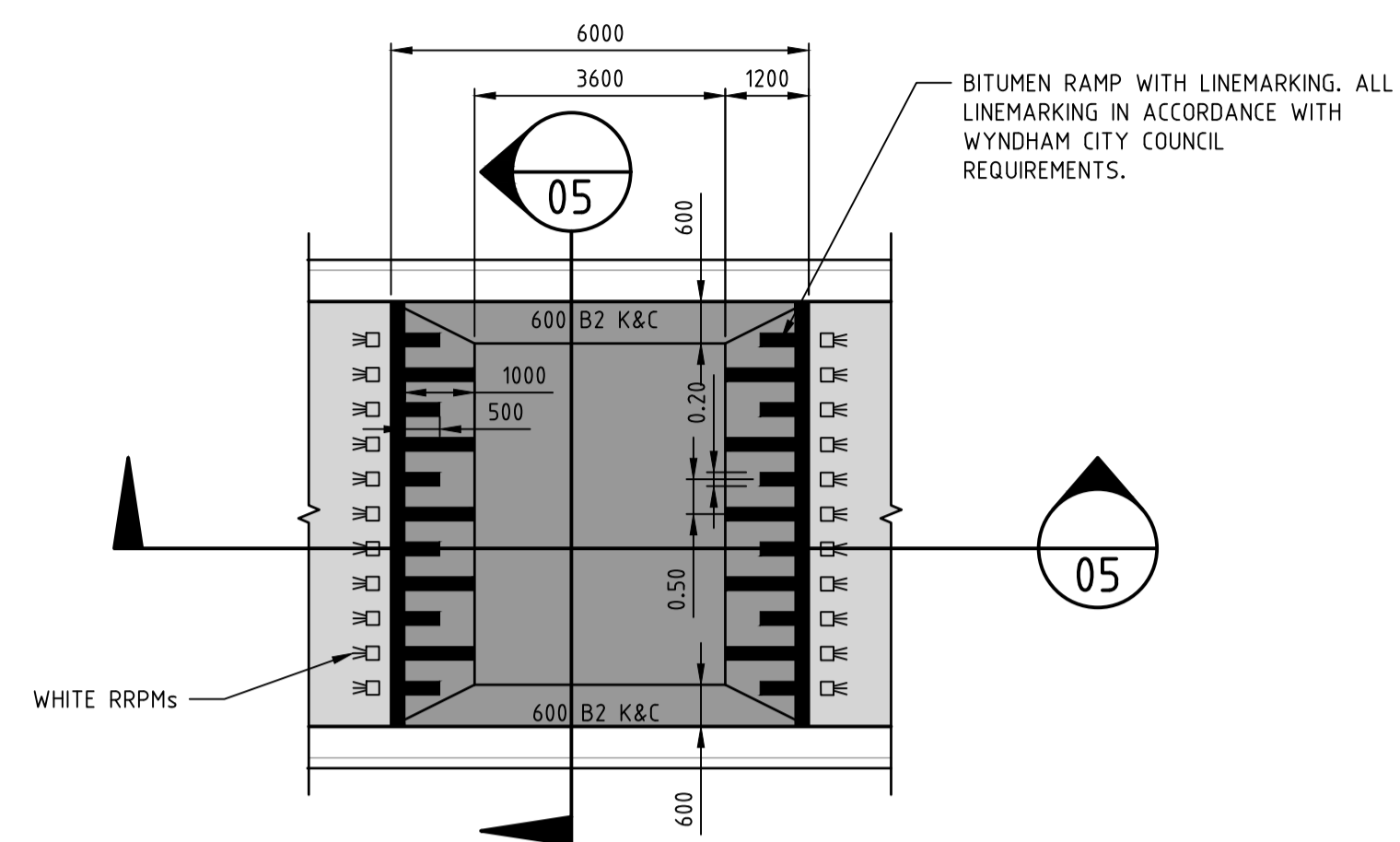
Scale @ A1/A3 As Shown

**RIVERWALK**  
STAGE 39  
GEELONG ROAD, WERRIBEE  
WYNDHAM CITY COUNCIL  
NOTES, LOCALITY PLAN  
AND DRAWING INDEX  
Drawing No. 10939TD01  
Sheet No. 01 of 29



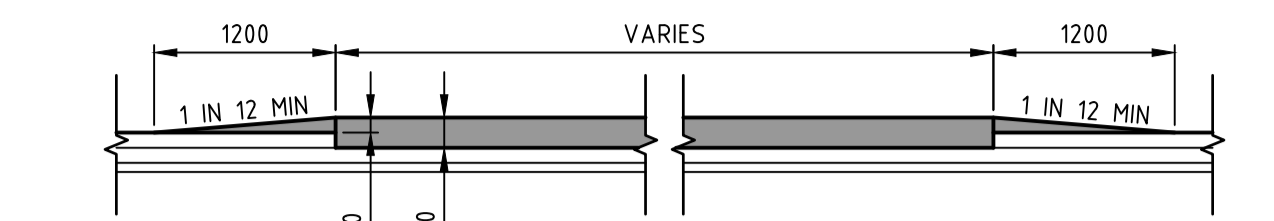
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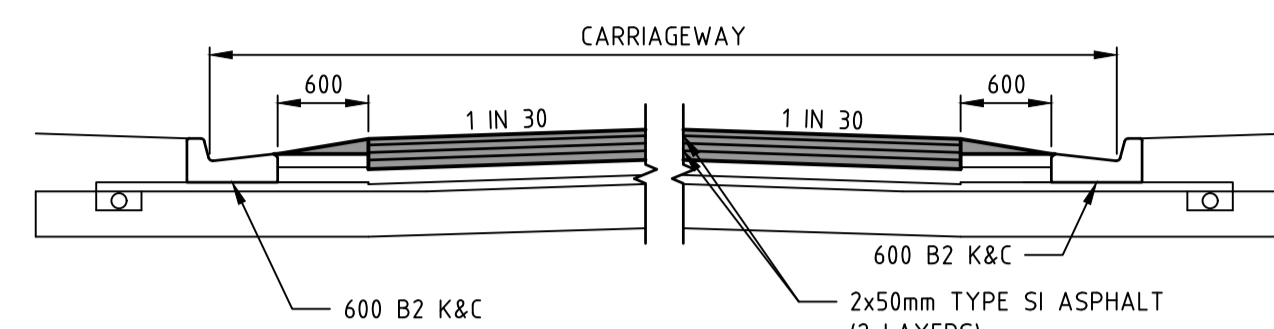


**TYPICAL ROAD HUMP**  
SCALE @ A1 1:100

ALL WORKS TO BE IN ACCORDANCE WITH AS1742. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH VICROADS LINEMARKING AND TRAFFIC MANUALS.

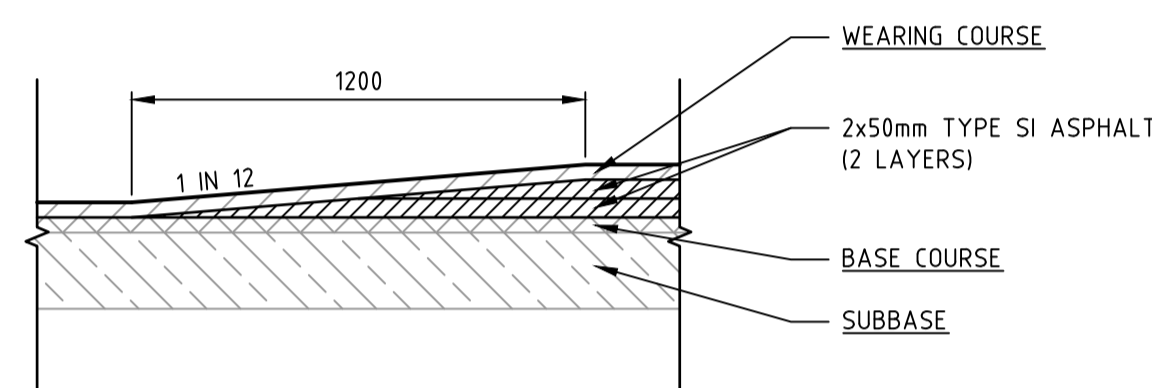


**SECTION 05**



**SECTION 05**

**TYPICAL RAISED PAVEMENT**  
SCALE @ A1 1:50

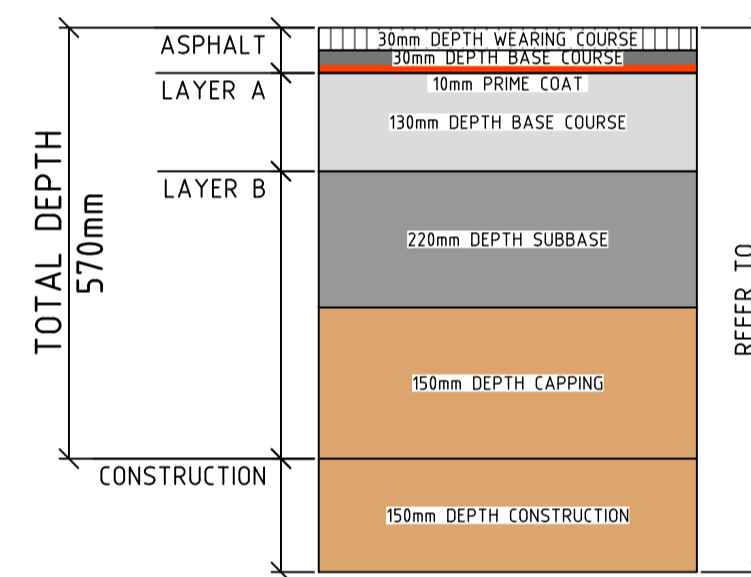


**TYPICAL RAISED PAVEMENT COMPOSITION DETAIL**  
SCALE @ A1 1:20

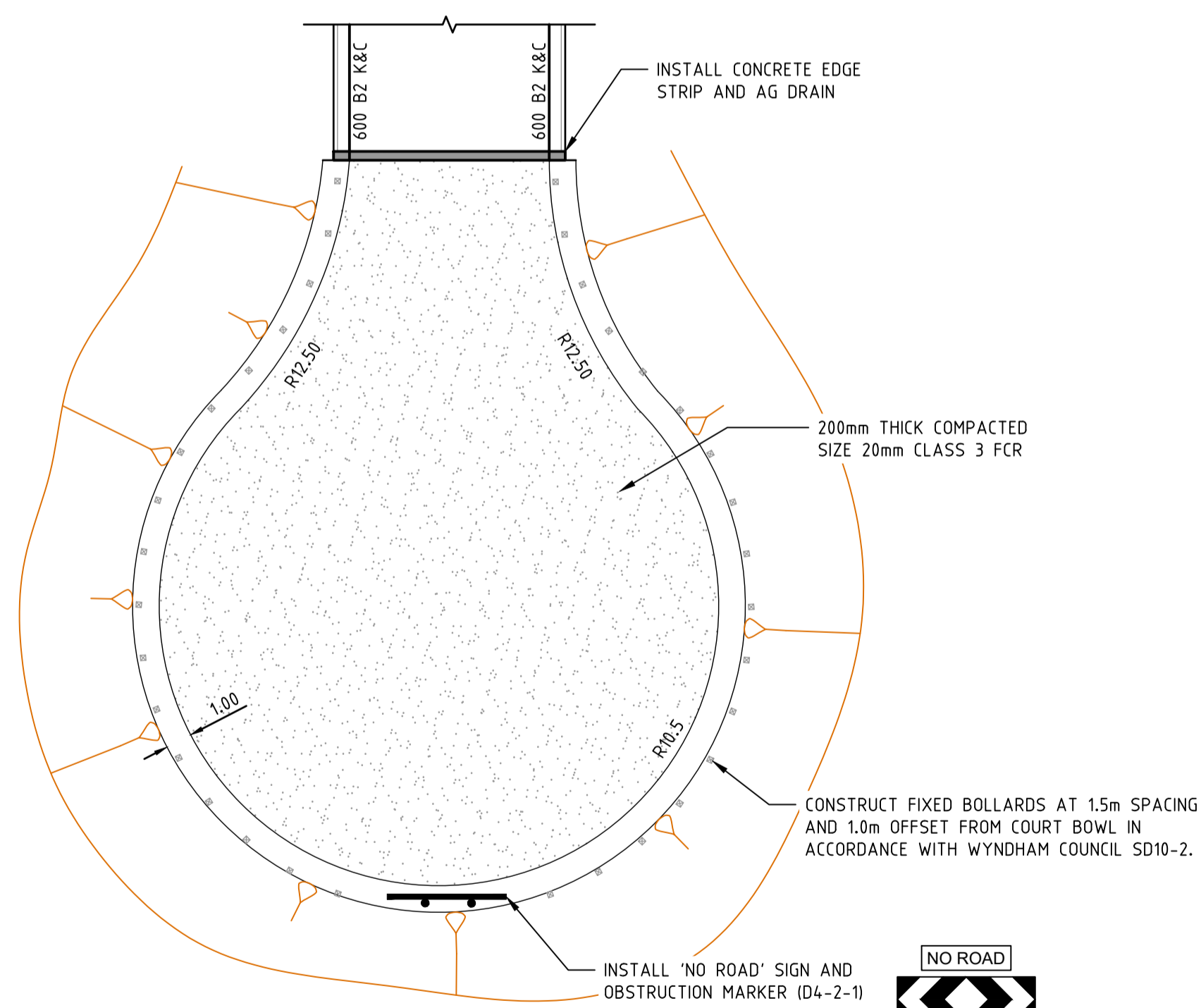
**PAVEMENT DETAILS**

ACCESS STREET 1 GRAMPIANS AVENUE, KAILASH ROAD, AVIATOR STREET BOOMERANG STREET AND BOMBARDIER STREET	
ASPHALT	WEARING COURSE 30mm SIZE 10mm TYPE N (C320 BINDER) BASE 30mm SIZE 10mm TYPE N (C320 BINDER) PRIMER SEAL AND SAMI 10mm (S 18RF)
LAYER A	BASE 130mm VICROADS CLASS 2 FCR (20mm) COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289; 5.2.1
LAYER B	UPPER SUBBASE 120mm VICROADS CLASS 3 FCR (20mm) COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289; 5.2.1 LOWER SUBBASE 100mm VICROADS CLASS 4 FCR (20mm) COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289; 5.2.1 CAPPING 150mm THICK VICROADS TYPE A CAPPING LAYER AS PER GROUND SCIENCE 4787.1 AA TABLE 4. CAPPING MATERIAL WITH CBR ≥ 8.0% MIN, SWELL ≤ 1.5% AND PERMEABILITY ≤ 5x10 <sup>-9</sup> m/sec. COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD AS1289; 5.1.1)
DEPTH TOTAL	570mm min.
CONSTRUCTION LAYER	CONSTRUCTION LAYER 150mm THICK VICROADS TYPE A CAPPING LAYER AS PER GROUND SCIENCE 4787.1 AA TABLE 4. CBR ≥ 8%, SWELL ≤ 1.5%, PERMEABILITY K ≤ 5x10 <sup>-9</sup> %. COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% (STANDARD AS1289; 5.1.1) ±3% OF OMC
SUBGRADE	SUBGRADE UNIT 4 OR 5 NATURAL SOIL OR CLAY CONTROLLED FILL (CBR ≥ 2.0%)

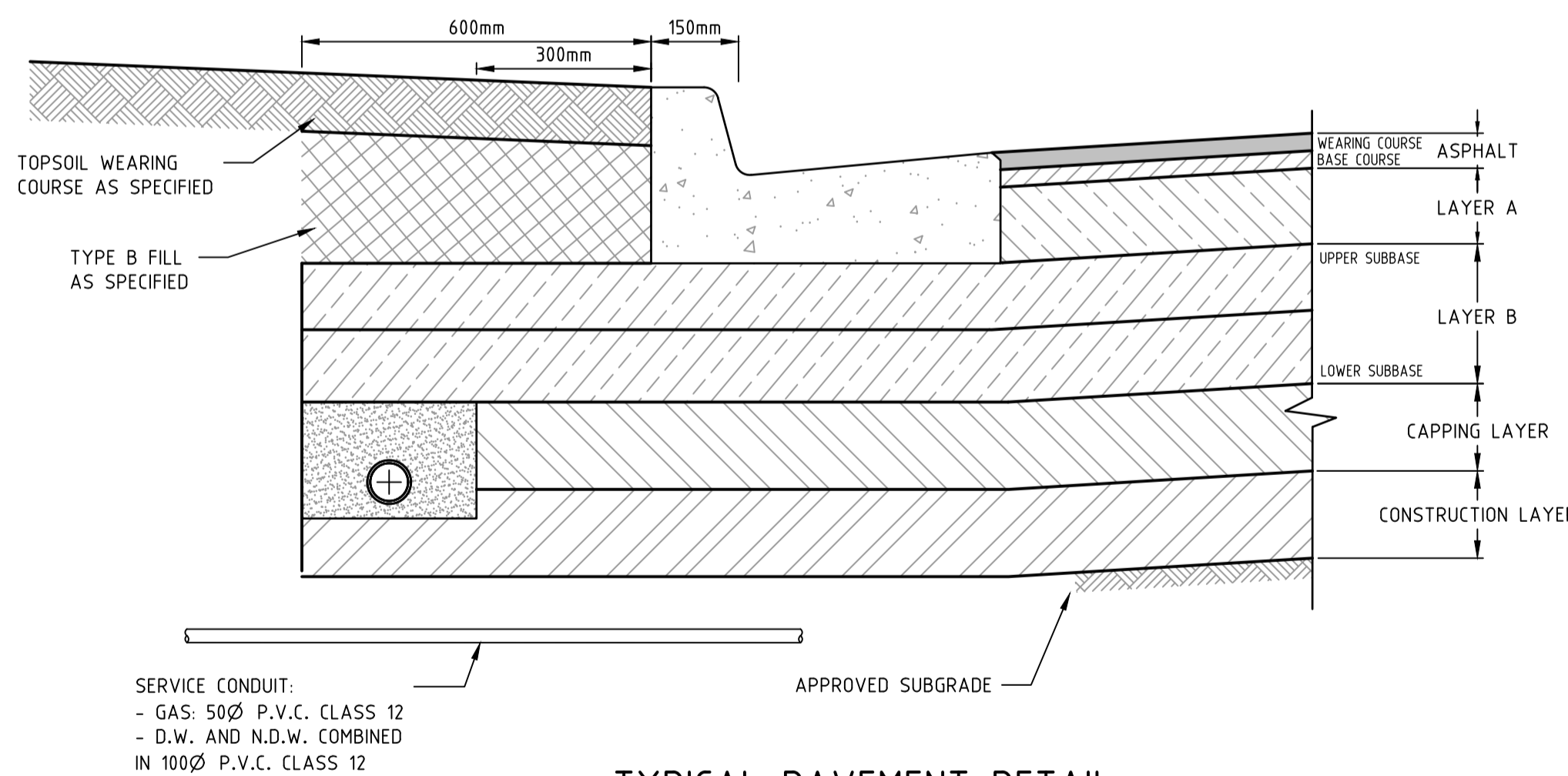
**NOTE:**  
- REFER GROUND SCIENCE G4797.1 AA DATED: 10/08/2022  
- CONTRACTOR TO ENSURE NEAT TRANSITION BETWEEN ADJOINING PAVEMENTS FROM PREVIOUS STAGES



**TYPICAL PAVEMENT DETAIL**  
SCALE @ A1 1:10



**TYPICAL TEMPORARY TURNING AREA**  
NOT TO SCALE



**TYPICAL PAVEMENT DETAIL**  
(REFER TO V.P.A. STD. DRG. E.D.C.M. 202a)  
(AS SHOWN)

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Scale @ A1/A3 As Shown

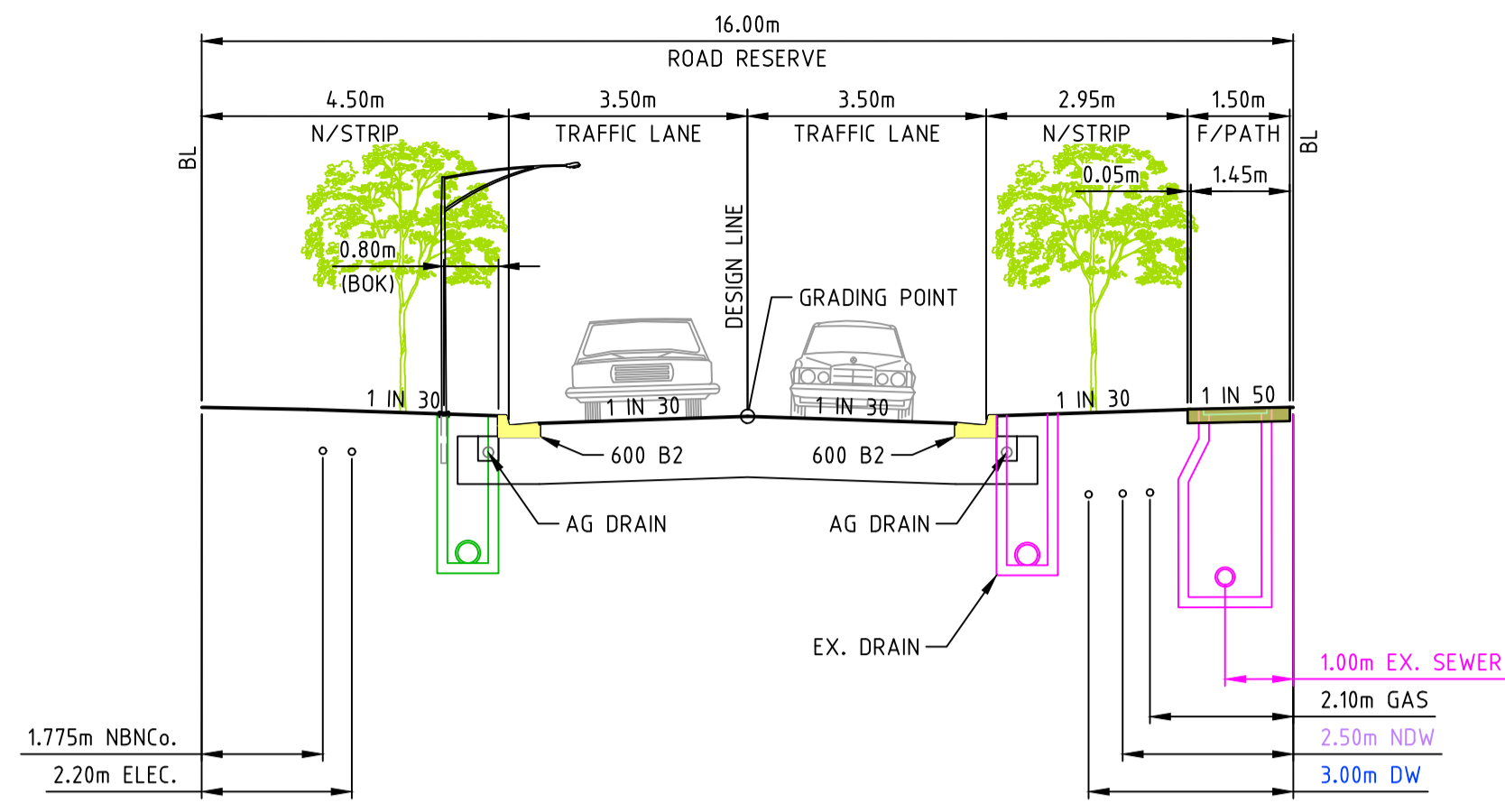
**RIVERWALK**  
STAGE 39  
GEELONG ROAD, WERRIBEE  
WYNDHAM CITY COUNCIL  
TYPICAL DETAILS AND  
PAVEMENT DETAILS  
Drawing No. 10939TD02  
Sheet No. 02 of 29

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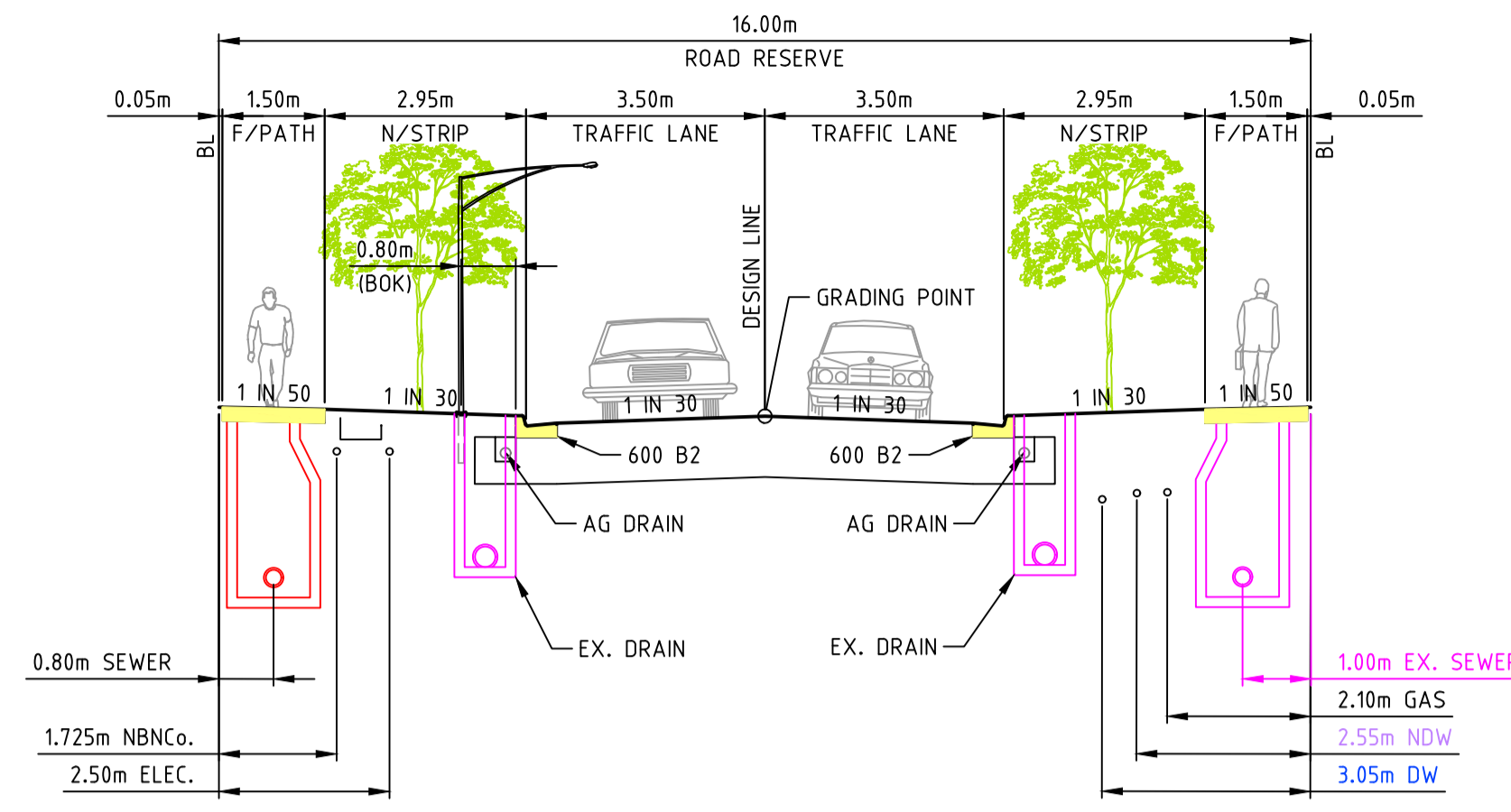
**PRELIMINARY**

Rev 0

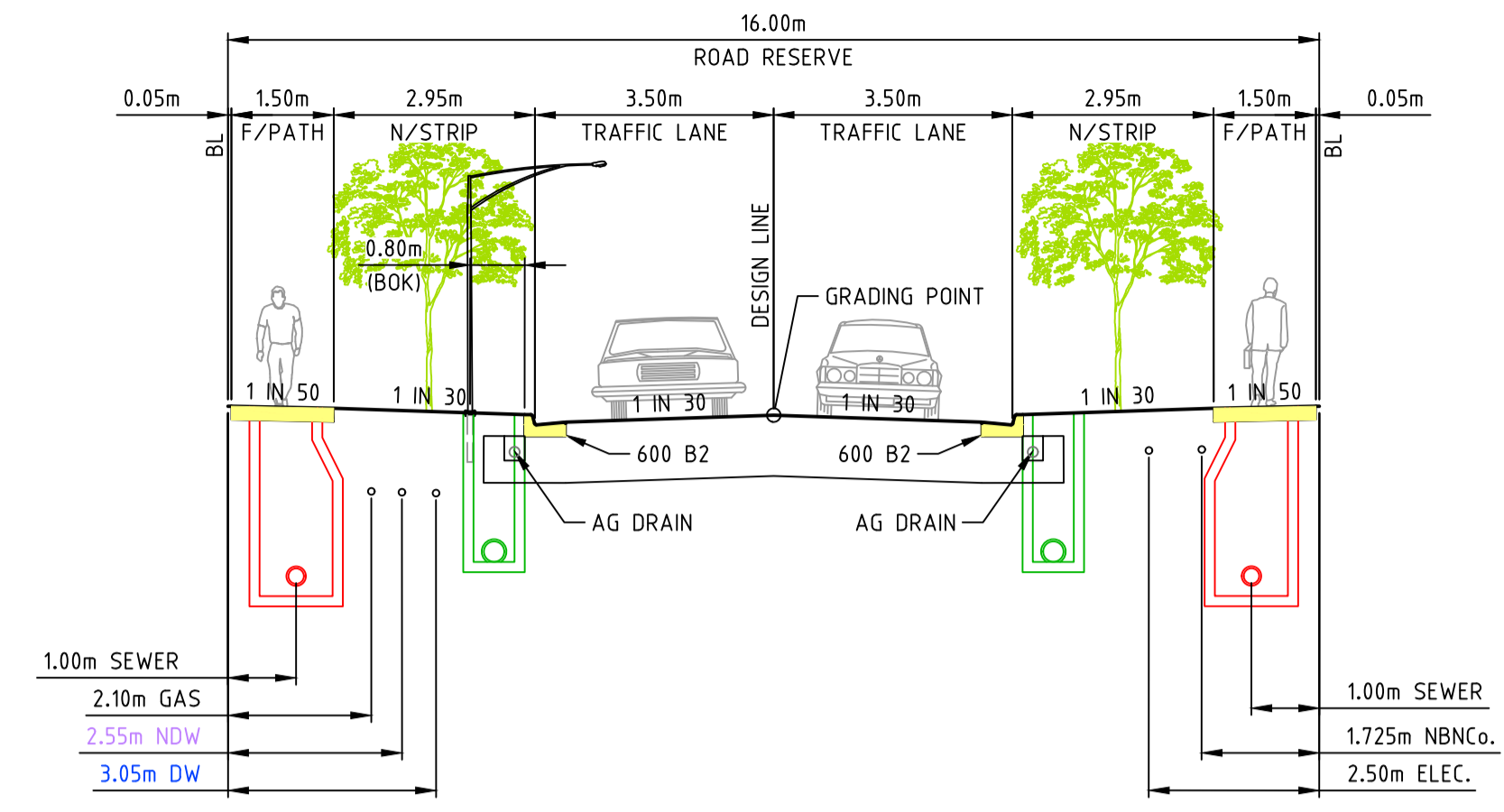
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**STANDARD ACCESS STREET (16.0m)**  
AVIATOR STREET



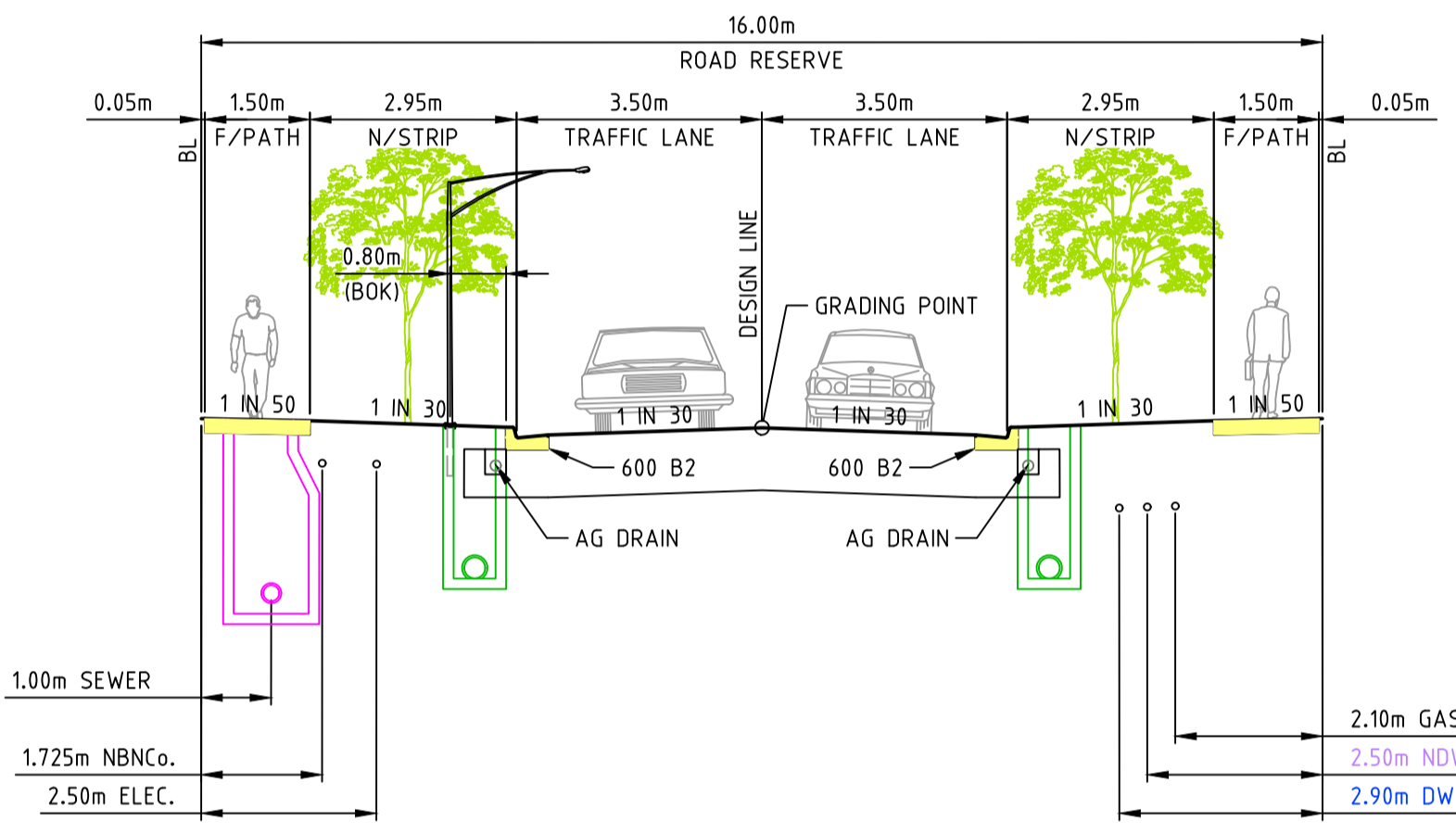
**STANDARD ACCESS STREET (16m)**  
GRAMPIANS AVENUE - SOUTH OF BOOMERANG STREET



**STANDARD ACCESS STREET (16m)**  
GRAMPIANS AVENUE - NORTH OF BOOMERANG STREET  
SCALE 1:100

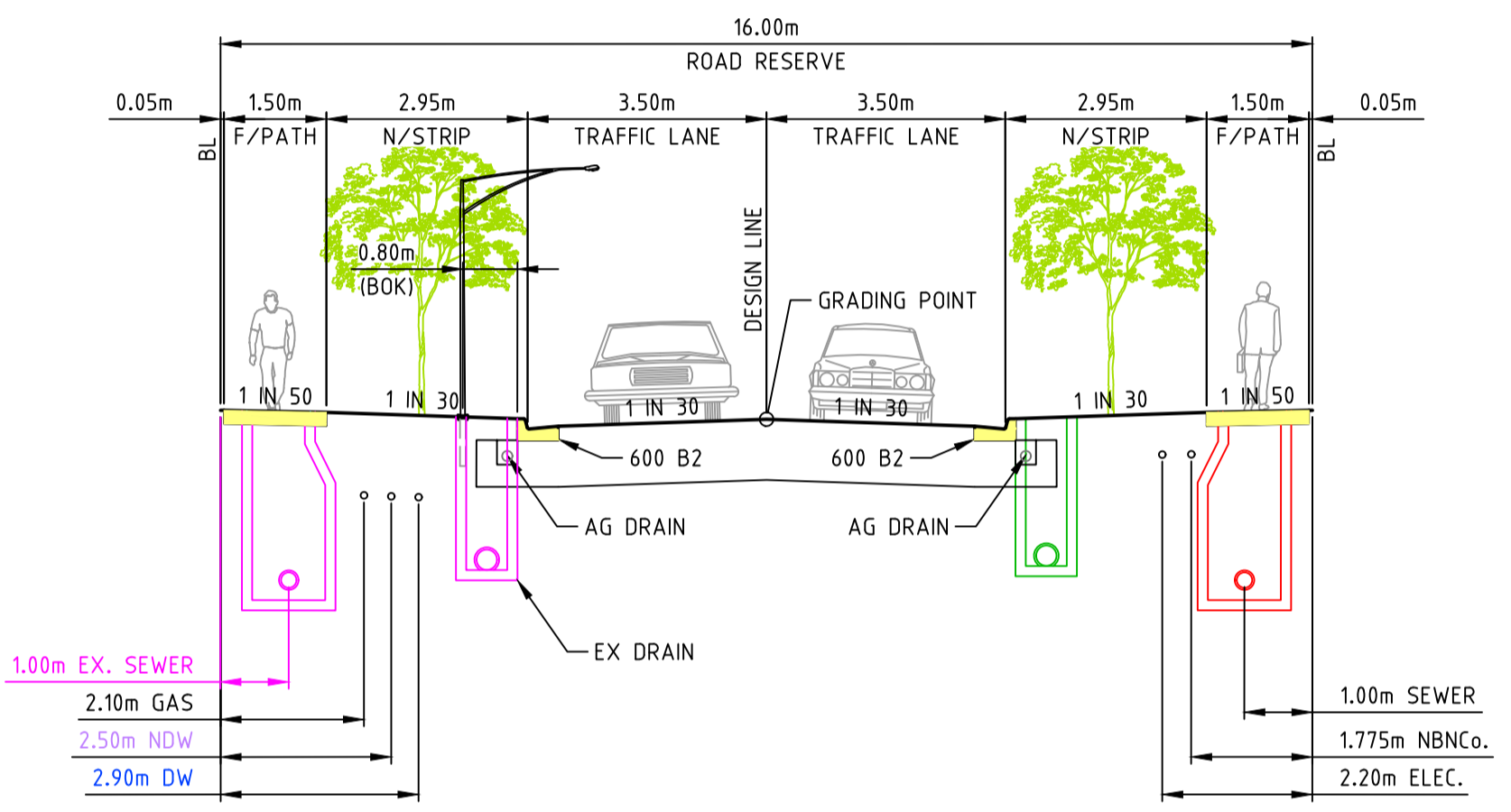
SEWER AND DRAINAGE SHOWN INDICATIVELY;  
REFER TO DETAIL PLAN FOR ACTUAL LOCATION

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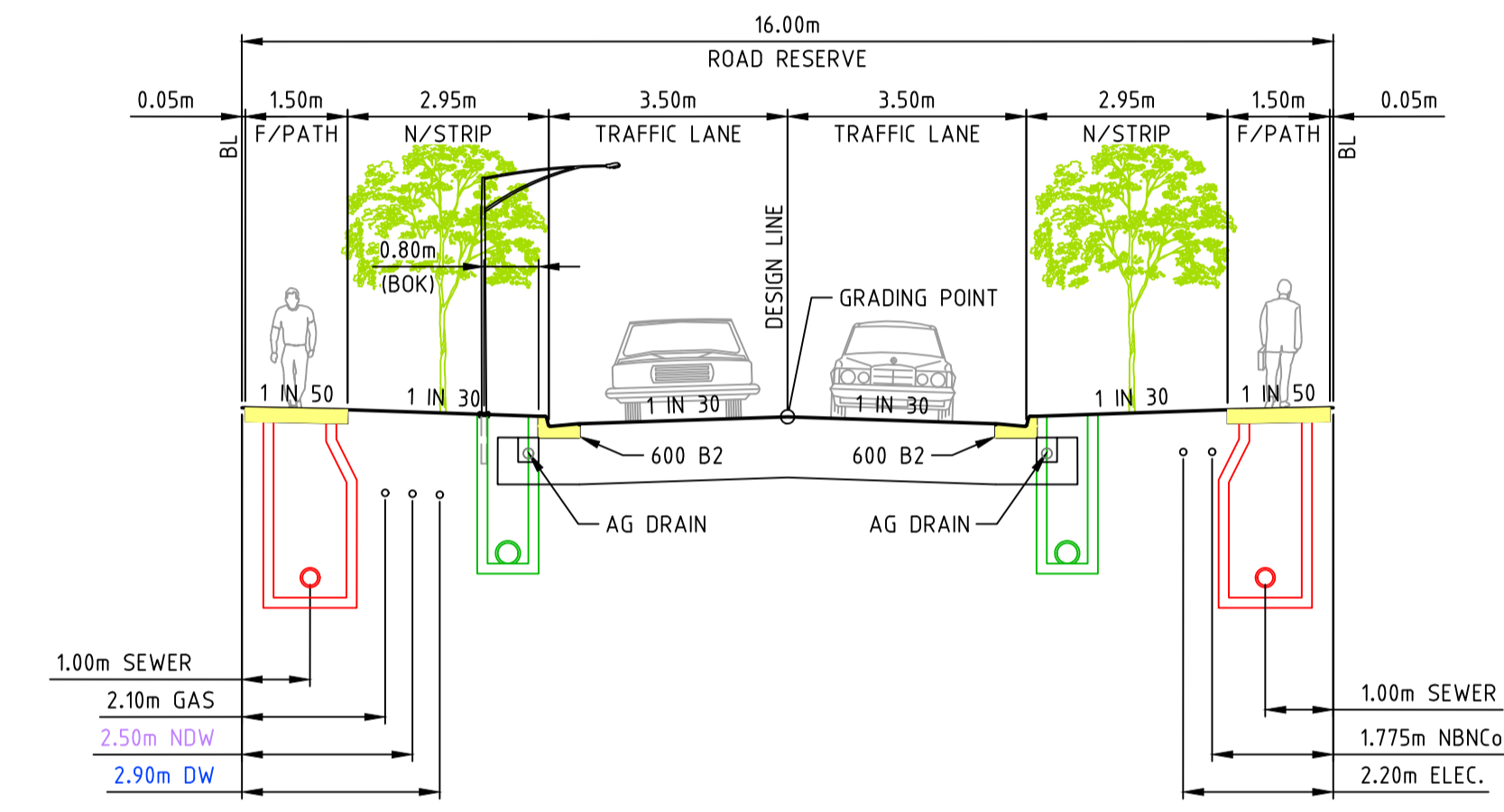
**STANDARD ACCESS STREET (16m)**  
KAILASH ROAD  
SCALE 1:100

SEWER AND DRAINAGE SHOWN INDICATIVELY;  
REFER TO DETAIL PLAN FOR ACTUAL LOCATION



**STANDARD ACCESS STREET (16m)**  
BOMBARDIER STREET  
SCALE 1:100

SEWER AND DRAINAGE SHOWN INDICATIVELY;  
REFER TO DETAIL PLAN FOR ACTUAL LOCATION



**STANDARD ACCESS STREET (16m)**  
BOOMERANG STREET

SEWER AND DRAINAGE SHOWN INDICATIVELY;  
REFER TO DETAIL PLAN FOR ACTUAL LOCATION

**TABLE OF SERVICE LOCATIONS**

STREET NAME	SEW	DW	NDW	GAS	OF	ELEC	POLES	BOK
AVIATOR STREET	(EX)1.00 N	3.00 N	2.50 N	2.10 N	1.775 S	2.20 S	*0.80 S	4.35
BOOMERANG STREET	1.00 N	2.90 N	2.50 N	2.10 N	1.775 S	2.20 S	*0.80 S	4.35
GRAMPIANS AVENUE NORTH OF BOOMERANG ST.	1.00 W	3.05 E	2.55 E	2.10 E	1.725 W	2.50 W	*0.80 W	4.35
GRAMPIANS AVENUE SOUTH OF BOOMERANG ST.	1.00 E 0.80 W	3.05 E	2.55 E	2.10 E	1.725 W	2.50 W	*0.80 W	4.35
BOMBARDIER STREET	(EX)1.00 N	2.90 N	2.50 N	2.10 N	1.775 S	2.20 S	*0.80 S	4.35
KAILASH ROAD	-	2.90 E	2.50 E	2.10 E	1.725 W	2.50 W	*0.80 W	4.35
KAILASH ROAD LOTS: 3939-3941	1.00 W	2.90 E	2.50 E	2.10 E	1.725 W	2.50 W	*0.80 W	4.35

\* FROM BACK OF KERB

**NOTE: PAVEMENT JOINTS**  
ROAD PAVEMENT JOINTS TO BE INSTALLED IN ACCORDANCE WITH EDM STANDARD DRAWING 201.

**NOTE: AG DRAINS**  
AG DRAINS TO BE INSTALLED IN ACCORDANCE WITH EDM STANDARD DRAWING 202a.

**NOTE: LIGHT POLES AND STREET TREES**  
1. LOCATIONS OF LIGHT POLES SHOWN ON ALL TYPICAL SECTIONS ARE ONLY INDICATIVE AND NOT THE EXACT LOCATION OF PROPOSED LIGHT POLES.  
2. PROPOSED TREES SHALL BE CLEAR OF SERVICES AND LOCATED AT A SUITABLE LOCATION THAT WILL MINIMISE DAMAGE TO ADJUTING SERVICES.

**NOT TO BE USED FOR CONSTRUCTION**

Drawn	R.GUTIERREZ
Date	12/08/22
AN	3401091
Designed	P.NICHOLSON
Date	21/07/22
AN	3791013
Checked	S.RAJKOVIC
Date	08/09/22
AN	2951054
Approved	T.LIAKOPOULOS
Date	30/09/22
AN	889495

Drawing File: C:\124\_Synergy\deltaelta\ENERGY-ME\10939-Afterwork - Stage 39\_240723 Design\1\_A040\4-RD\10939T01.dwg - T003  
Date/Time: Fri Sep 30, 2022 - 3:01pm - frank--

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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Scale @ A1/A3 1:100 / 1:200

**RIVERWALK**  
STAGE 39  
GEELONG ROAD, WERRIBEE  
WYNDHAM CITY COUNCIL  
TYPICAL SECTIONS

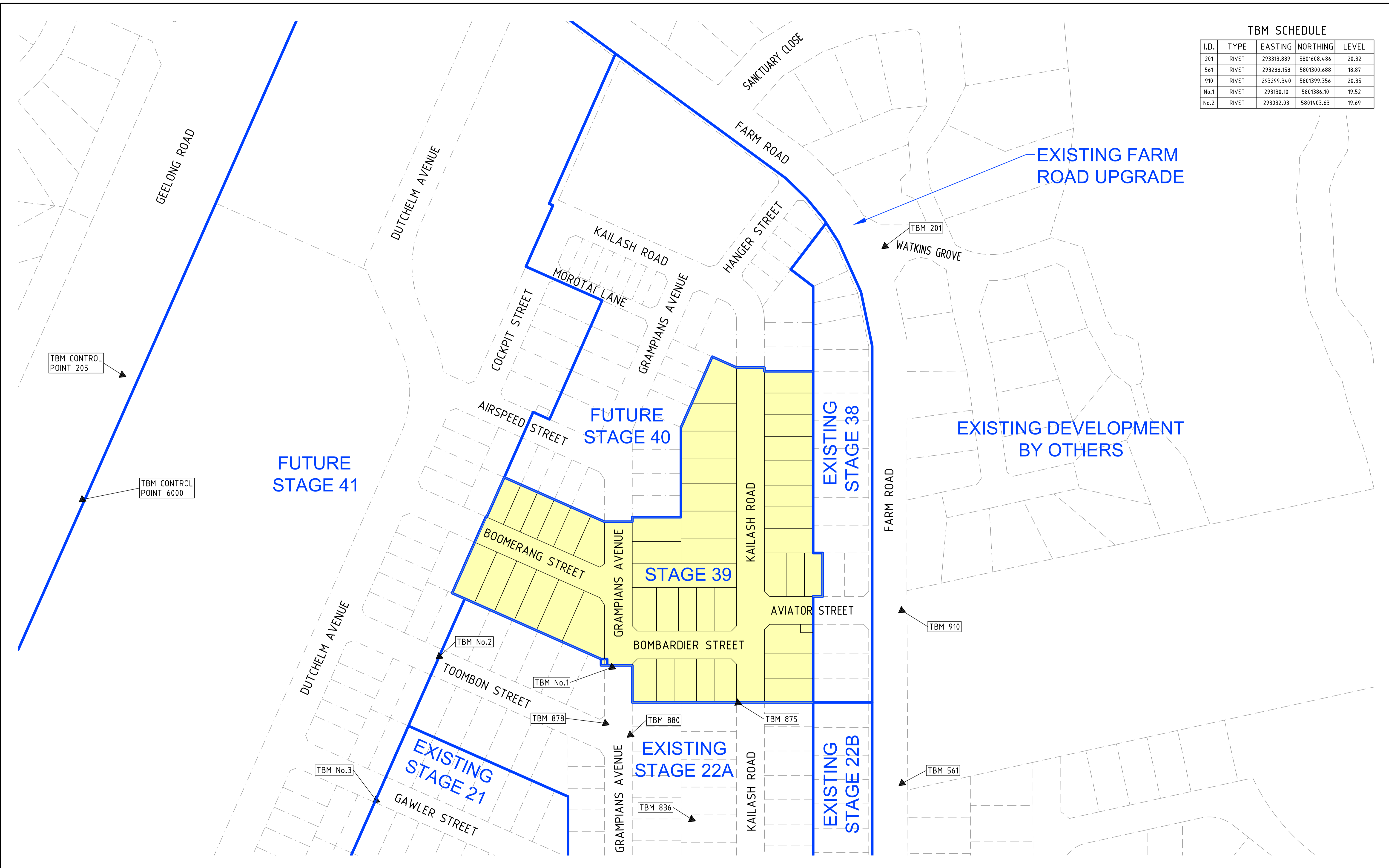
Drawing No. 10939TD03  
Sheet No. 03 of 29



**PRELIMINARY**

TBM SCHEDULE

I.D.	TYPE	EASTING	NORTHING	LEVEL
201	RIVET	293313.889	5801608.486	20.32
561	RIVET	293288.158	5801300.688	18.87
910	RIVET	293299.340	5801399.356	20.35
No.1	RIVET	293130.10	5801386.10	19.52
No.2	RIVET	293032.03	5801403.63	19.69



Drawing File: C:\12d\_Synergy\delta\delta\ENERGY-MEL\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_40A0\4-001  
 Date/Time: Fri Sep 30, 2022 - 3:01pm - Frank--

**NOT TO BE USED FOR CONSTRUCTION**

Drawn	R.GUTIERREZ	Date	12/08/22
AN	3401091	Designed	P.NICHOLSON
Date	21/07/22	AN	3791013
Checked	S.RAJKOVIC	Date	08/09/22
AN	2951054	Approved	T.LIAKOPOULOS
Date	30/09/22	AN	889495

**LEGEND**

	STAGE BOUNDARY
	CURRENT STAGE
	PSM   TBM

REV	DESCRIPTION	DATE	AMEND	APP'D
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Coords: MGA Levels: AHD

www.byda.com.au

Scale @ A1/A3 1:1000 / 1:2000

**RIVERWALK**  
**STAGE 39**  
 GEELONG ROAD, WERRIBEE  
 WYNDHAM CITY COUNCIL  
 STAGING PLAN

**DALTON CONSULTING ENGINEERS**  
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 E info@dceng.com.au

Drawing No. 10939SP01 Rev 0  
 Sheet No. 04 of 29

**PRELIMINARY**

TABLE OF SERVICE LOCATIONS

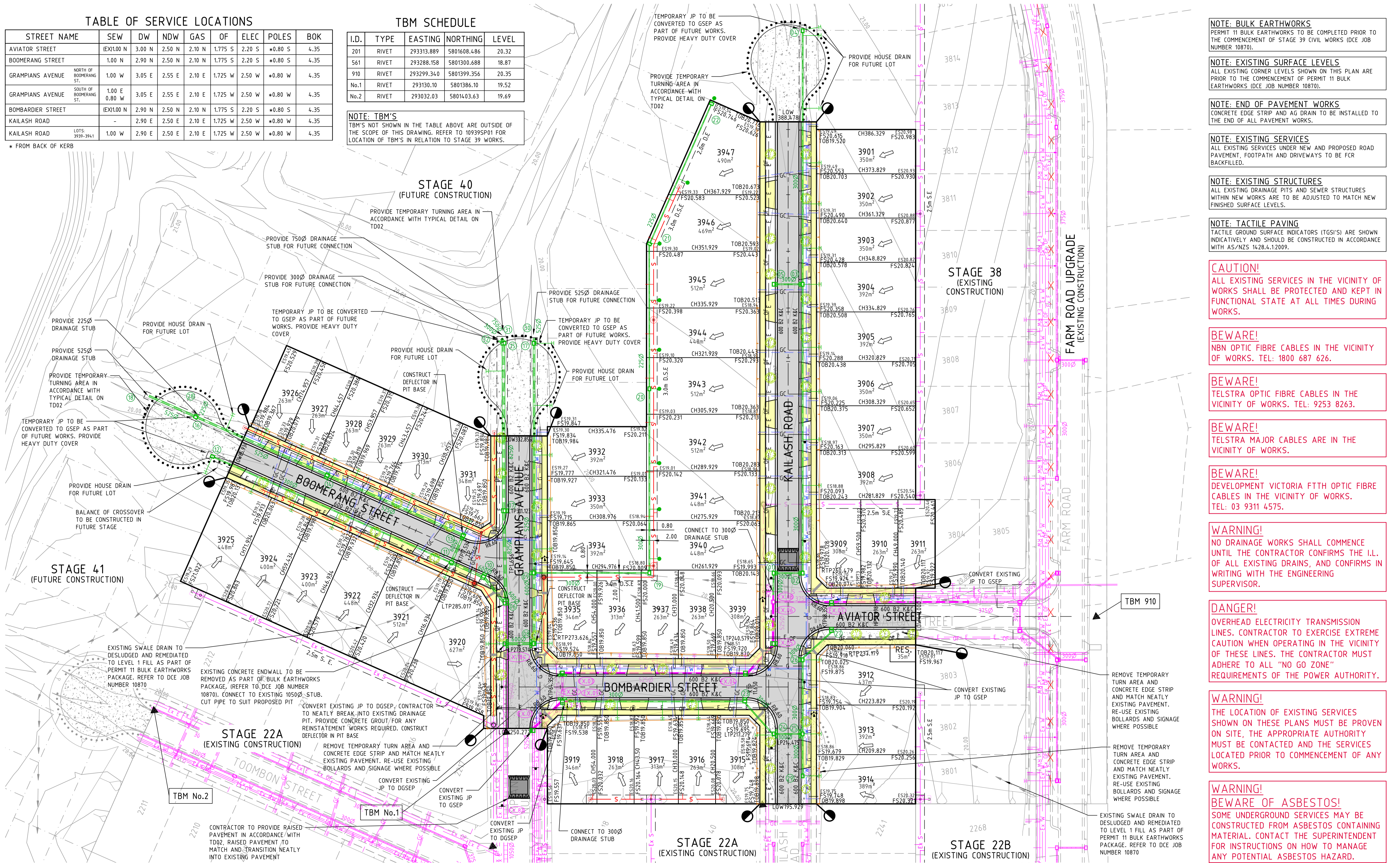
STREET NAME	SEW	DW	NDW	GAS	OF	ELEC	POLES	BOK
AVIATOR STREET	(EX)1.00 N	3.00 N	2.50 N	2.10 N	1.775 S	2.20 S	+0.80 S	4.35
BOOMERANG STREET		2.90 N	2.50 N	2.10 N	1.775 S	2.20 S	+0.80 S	4.35
GRAMPIANS AVENUE	NORTH OF BOOMERANG ST.	1.00 W	3.05 E	2.55 E	2.10 E	1.725 W	2.50 W	+0.80 W
GRAMPIANS AVENUE	SOUTH OF BOOMERANG ST.	1.00 E	0.80 W	3.05 E	2.55 E	2.10 E	1.725 W	2.50 W
BOMBARDIER STREET	(EX)1.00 N	2.90 N	2.50 N	2.10 N	1.775 S	2.20 S	+0.80 S	4.35
KAILASH ROAD		2.90 E	2.50 E	2.10 E	1.725 W	2.50 W	+0.80 W	4.35
KAILASH ROAD	LOTS 3939-3941	1.00 W	2.90 E	2.50 E	2.10 E	1.725 W	2.50 W	+0.80 W

\* FROM BACK OF KERB

TBM SCHEDULE

I.D.	TYPE	EASTING	NORTHING	LEVEL
201	RIVET	293313.889	5801608.486	20.32
561	RIVET	293288.158	5801300.688	18.87
910	RIVET	293299.340	5801399.356	20.35
No.1	RIVET	293130.10	5801386.10	19.52
No.2	RIVET	293032.03	5801403.63	19.69

NOTE: TBM'S  
TBMs NOT SHOWN IN THE TABLE ABOVE ARE OUTSIDE OF THE SCOPE OF THIS DRAWING. REFER TO 10939SP01 FOR LOCATION OF TBM'S IN RELATION TO STAGE 39 WORKS.



- NOTE: BULK EARTHWORKS**  
PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO THE COMMENCEMENT OF STAGE 39 CIVIL WORKS (DCE JOB NUMBER 10870).
- NOTE: EXISTING SURFACE LEVELS**  
ALL EXISTING CORNER LEVELS SHOWN ON THIS PLAN ARE PRIOR TO THE COMMENCEMENT OF PERMIT 11 BULK EARTHWORKS (DCE JOB NUMBER 10870).
- NOTE: END OF PAVEMENT WORKS**  
CONCRETE EDGE STRIP AND AG DRAIN TO BE INSTALLED TO THE END OF ALL PAVEMENT WORKS.
- NOTE: EXISTING SERVICES**  
ALL EXISTING SERVICES UNDER NEW AND PROPOSED ROAD PAVEMENT, FOOTPATH AND DRIVEWAYS TO BE FCR BACKFILLED.
- NOTE: EXISTING STRUCTURES**  
ALL EXISTING DRAINAGE PITS AND SEWER STRUCTURES WITHIN NEW WORKS ARE TO BE ADJUSTED TO MATCH NEW FINISHED SURFACE LEVELS.
- NOTE: TACTILE PAVING**  
TACTILE GROUND SURFACE INDICATORS (TGSIS) ARE SHOWN INDICATIVELY AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH AS/NZS 1428.4:2009.
- CAUTION!**  
ALL EXISTING SERVICES IN THE VICINITY OF WORKS SHALL BE PROTECTED AND KEPT IN FUNCTIONAL STATE AT ALL TIMES DURING WORKS.
- BEWARE!**  
NBN OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 1800 687 626.
- BEWARE!**  
TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 9253 8263.
- BEWARE!**  
TELSTRA MAJOR CABLES ARE IN THE VICINITY OF WORKS.
- BEWARE!**  
DEVELOPMENT VICTORIA FTTH OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 03 9311 4575.
- WARNING!**  
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.
- DANGER!**  
OVERHEAD ELECTRICITY TRANSMISSION LINES. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE LINES. THE CONTRACTOR MUST ADHERE TO ALL "NO GO ZONE" REQUIREMENTS OF THE POWER AUTHORITY.
- WARNING!**  
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.
- WARNING!**  
**BEWARE OF ASBESTOS!**  
SOME UNDERGROUND SERVICES MAY BE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD.

Drawing File: C:\124\_Sydney\deltaelta\ENERGY-ME\10939-Work\Stage 39\_2407\3\_Design\1\_A040\4-RD\10939DP01.dwg - (P01)  
Date/Time: Fri Sep 30, 2022 - 3:02pm - frankk...

**NOT TO BE USED FOR CONSTRUCTION**

Drawn	R.GUTIERREZ	12/08/22
Date	AN	3401091
Designed	P.NICHOLSON	21/07/22
Date	AN	3791013
Checked	S.RAJKOVIC	08/09/22
Date	AN	2951054
Approved	T.LIAKOPPOULOS	30/09/22
Date	AN	889495

**LEGEND**

EX. WATER MAIN	SIGNAGE	SEWER MAIN & MANHOLE	EX. TREE TO REMAIN
EX. GAS MAIN	ELECTRICITY	SW DRAIN & PIT	EX. TREE TO BE REMOVED
EX. ELECTRICAL CABLE	OPTIC FIBRE	HOUSE DRN   PROP. INLET	PROPOSED TREE WITH 3m TREE RING
EX. SEWER MAIN & MH	GAS	BATTER	FILLING OVER 300mm
EX. OPTIC FIBRE	WATER	FINISHED SURFACE LEVEL	ASPHALT PAVEMENT
EX. DRAIN & PIT	RECYCLED WATER	EX. SURFACE LEVEL	CONCRETE PATH   D'WAY
EX. RECYCLED WATER	DW/NDW/GAS CONDUITS	TOP OF BATTER LEVEL	RAISED PLATFORM
LIMIT OF WORKS	PSM   TBM	REGRADE LOT (MM 1:50)	TURN AREA

**DEVELOPMENT VICTORIA**

Coords: MGA Levels: AHD

Scale @ A1/A3 1:500 / 1:1000

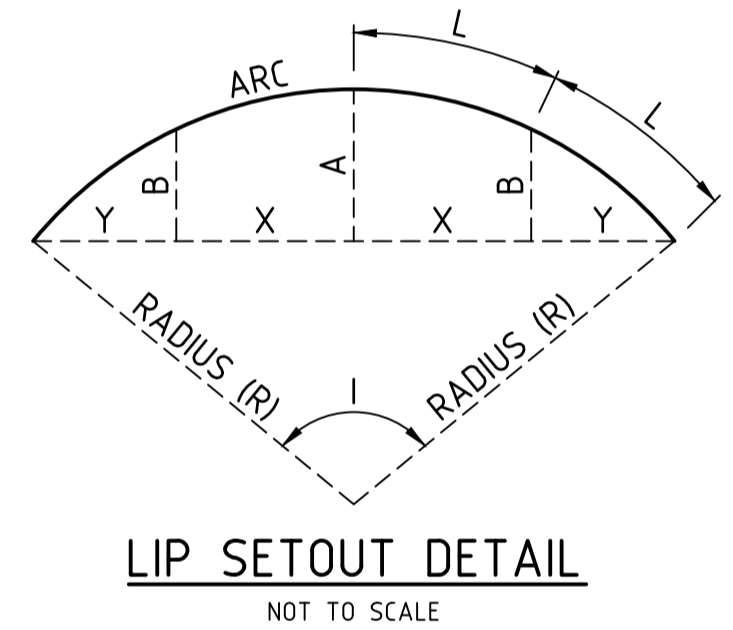
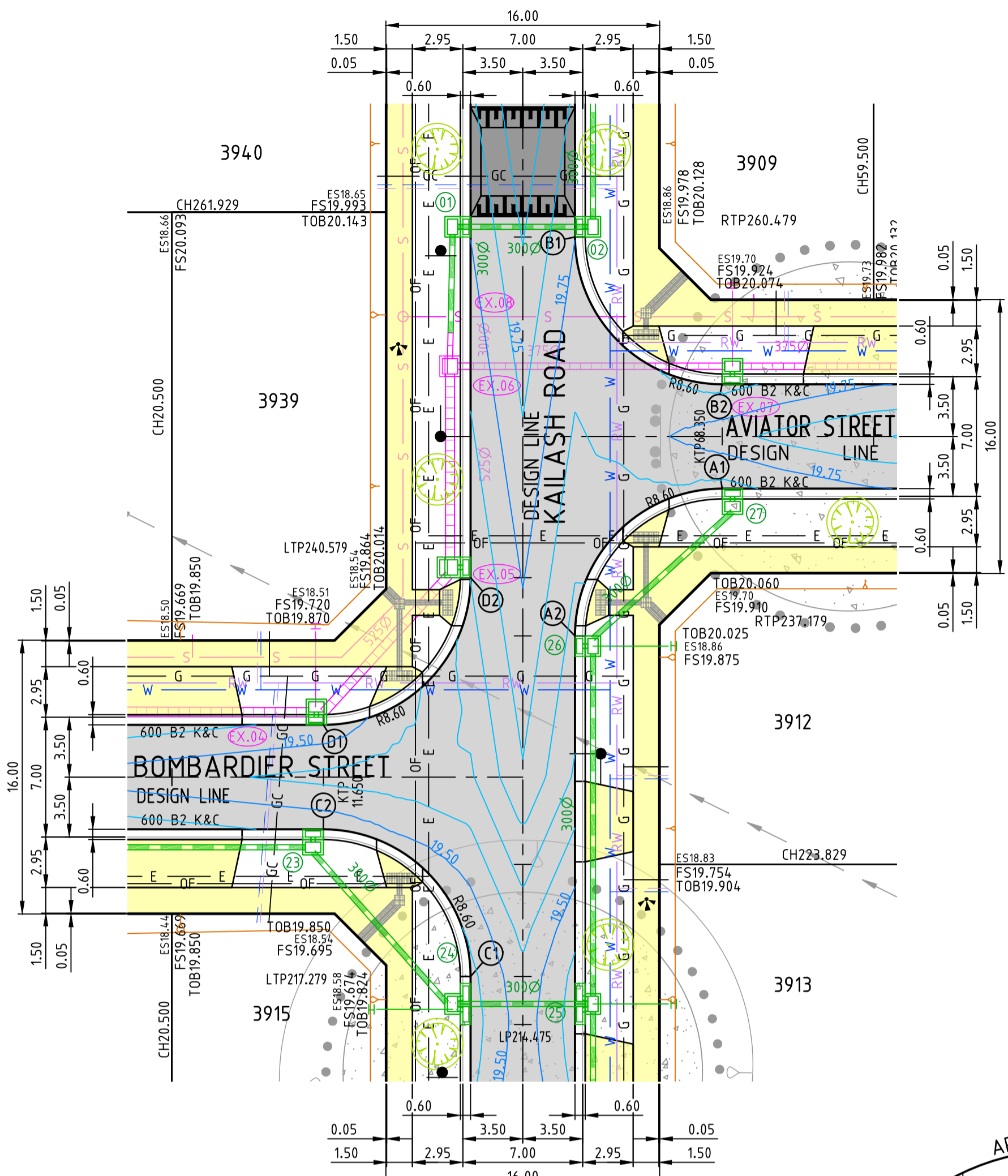
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**RIVERWALK**  
STAGE 39  
GEELONG ROAD, WERRIBEE  
WYNDHAM CITY COUNCIL  
DETAIL PLAN

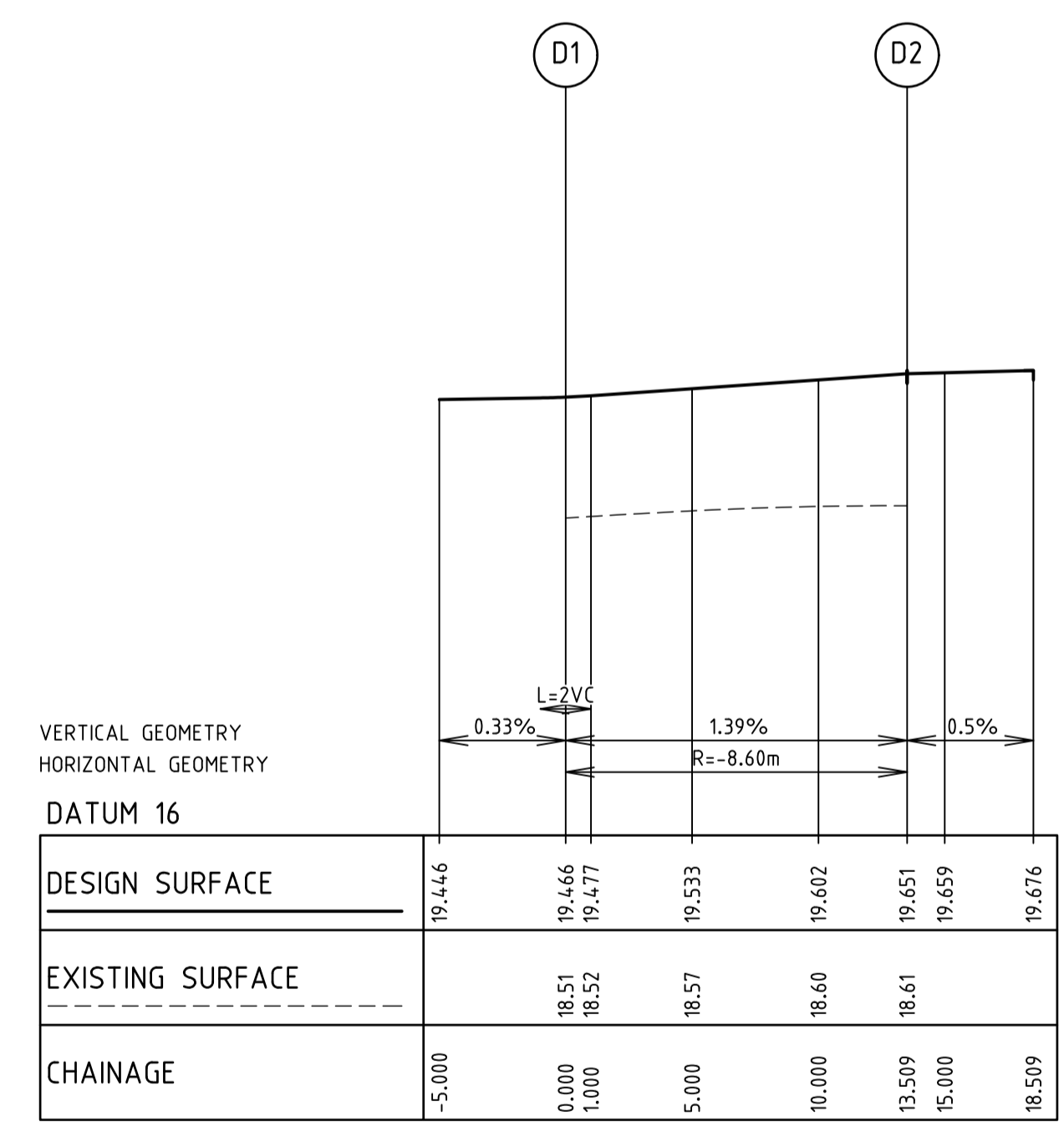
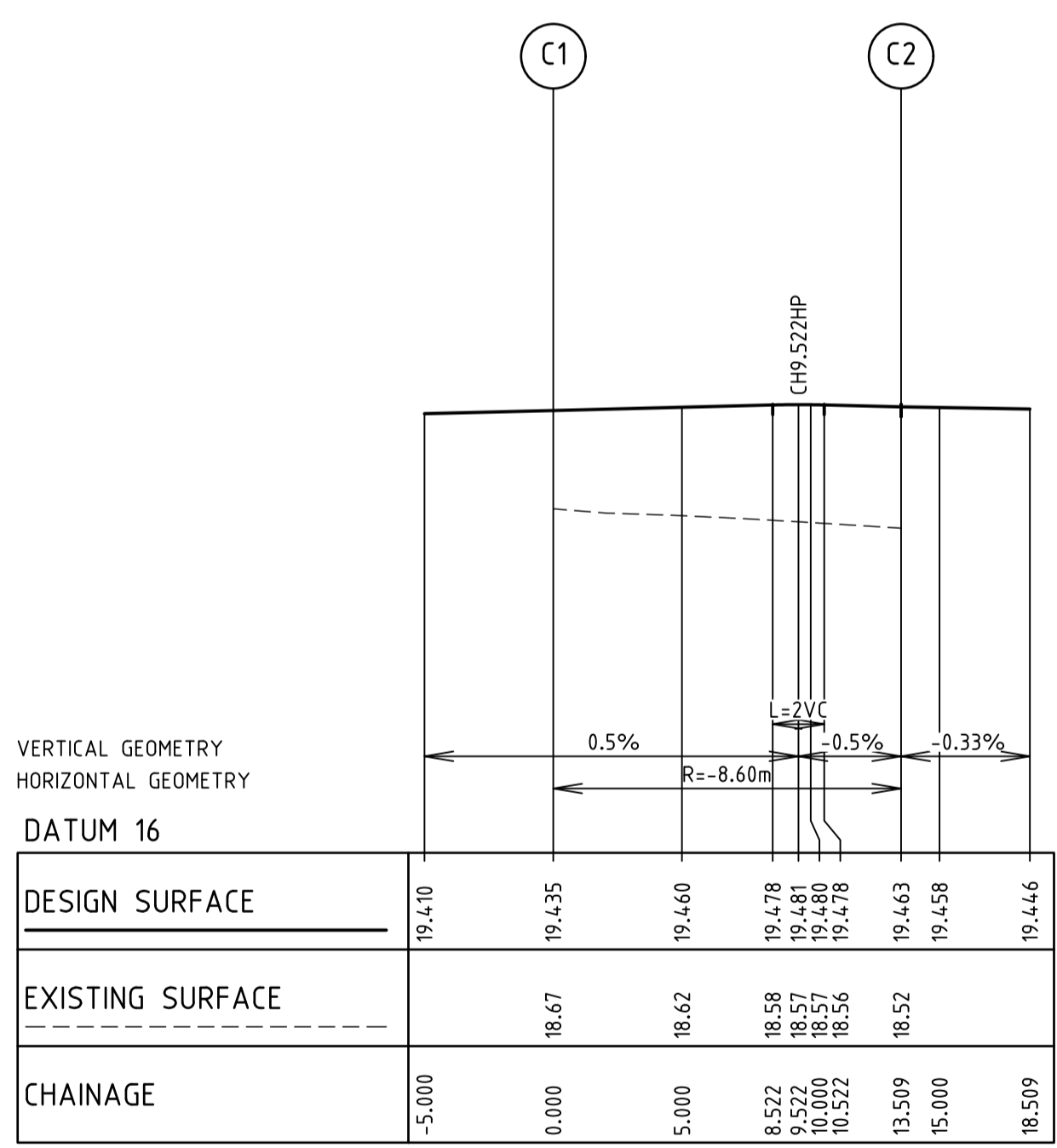
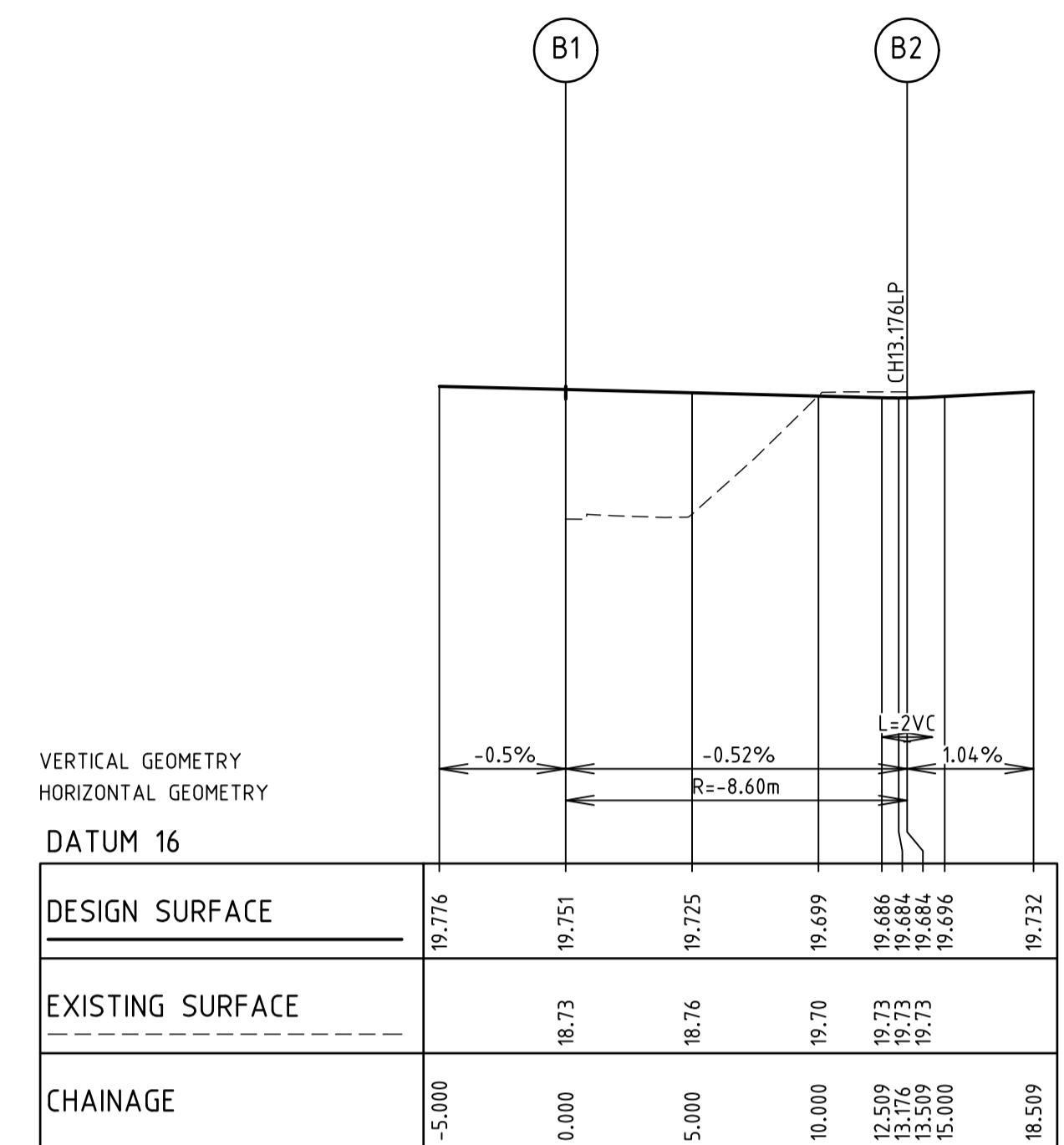
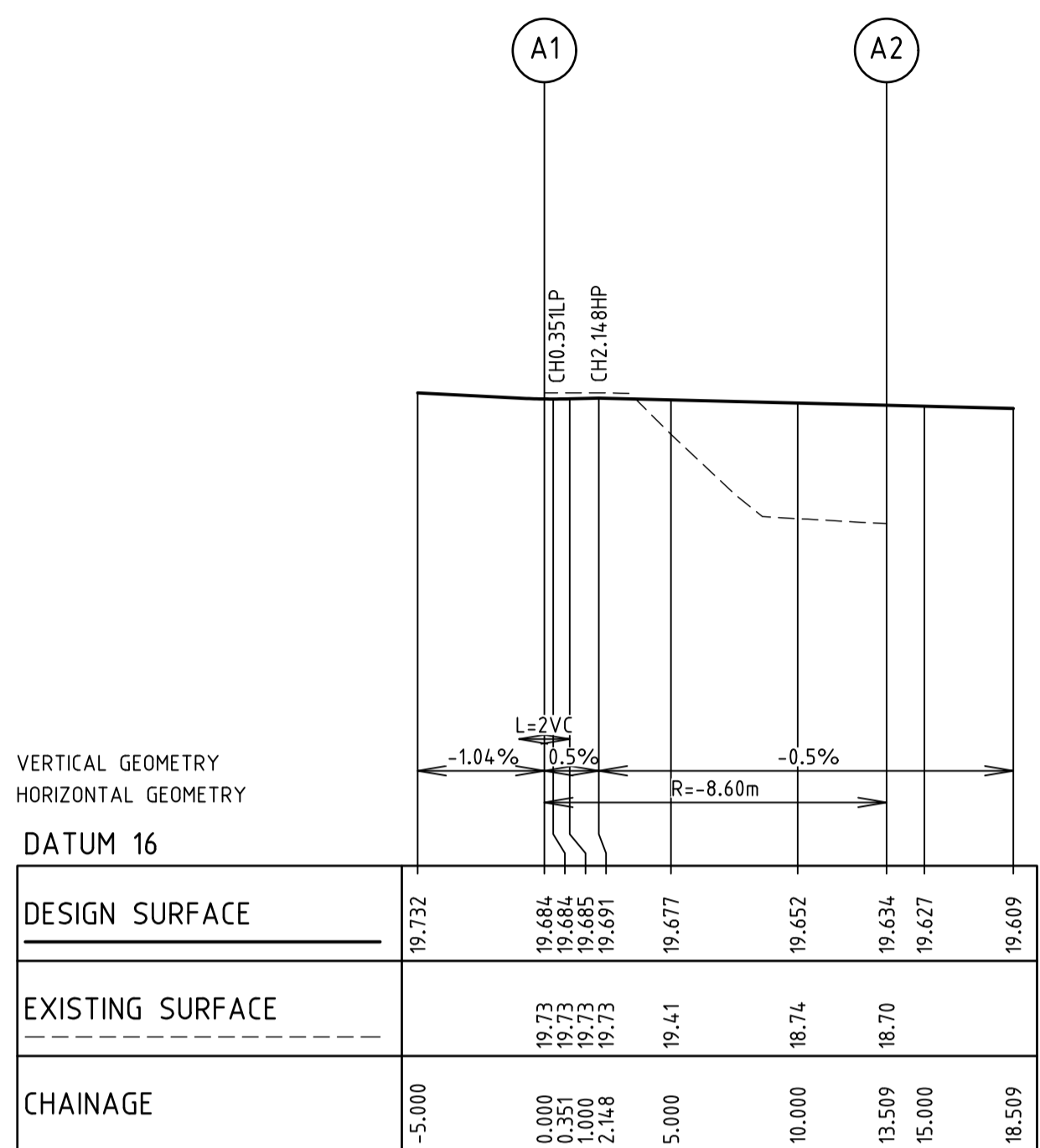
Drawing No. 10939DP01  
Sheet No. 05 of 29

**DALTON CONSULTING ENGINEERS**  
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T +61 7 3374 9000  
E info@dceng.com.au

**PRELIMINARY**



ALIGNMENT A									
POINT NO	EASTING	NORTHING	RL						
A1	293224.140	5801405.061	19.684						
A2	293214.608	5801397.506	19.634						
ALIGNMENT B									
POINT NO	EASTING	NORTHING	RL						
B1	293217.287	5801420.652	19.751						
B2	293224.841	5801411.120	19.684						
ALIGNMENT C									
POINT NO	EASTING	NORTHING	RL						
C1	293206.261	5801378.439	19.435						
C2	293198.707	5801387.971	19.463						
ALIGNMENT D									
POINT NO	EASTING	NORTHING	RL						
D1	293199.408	5801394.031	19.466						
D2	293208.939	5801401.585	19.651						



**NOTE: END OF PAVEMENT WORKS**  
CONCRETE EDGE STRIP AND AG DRAIN TO BE INSTALLED TO THE END OF ALL PAVEMENT WORKS.

**NOTE: EXISTING SERVICES**  
ALL EXISTING SERVICES UNDER NEW AND PROPOSED ROAD PAVEMENT, FOOTPATH AND DRIVEWAYS TO BE FOR BACKFILLED.

**NOTE: EXISTING STRUCTURES**  
ALL EXISTING DRAINAGE PITS AND SEWER STRUCTURES WITHIN NEW WORKS ARE TO BE ADJUSTED TO MATCH NEW FINISHED SURFACE LEVELS.

**NOTE: TACTILE PAVING**  
TACTILE GROUND SURFACE INDICATORS (TGSIS) ARE SHOWN INDICATIVELY AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH AS/NZS 1428.4:12009.

**CAUTION!**  
ALL EXISTING SERVICES IN THE VICINITY OF WORKS SHALL BE PROTECTED AND KEPT IN FUNCTIONAL STATE AT ALL TIMES DURING WORKS.

**BEWARE!**  
NBN OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 1800 687 626.

**BEWARE!**  
TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 9253 8263.

**BEWARE!**  
TELSTRA MAJOR CABLES ARE IN THE VICINITY OF WORKS.

**BEWARE!**  
DEVELOPMENT VICTORIA FTTH OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 03 9311 4575.

**WARNING!**  
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**DANGER!**  
OVERHEAD ELECTRICITY TRANSMISSION LINES. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE LINES. THE CONTRACTOR MUST ADHERE TO ALL "NO GO ZONE" REQUIREMENTS OF THE POWER AUTHORITY.

**WARNING!**  
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

**WARNING!**  
**BEWARE OF ASBESTOS!**  
SOME UNDERGROUND SERVICES MAY BE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD.

Drawing File: C:\124\_Synergy\delta\delta\ENERGY-MEL\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_A040\4-RD\10939RD01.dwg - 001 Date/Time: Fri Sep 30, 2022 - 3:02pm - frankh--

**NOT TO BE USED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	AMEND	APPD
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

Drawn: R.GUTIERREZ  
Date: 12/08/22  
AN: 3401091  
Designed: P.NICHOLSON  
Date: 21/07/22  
AN: 3791013  
Checked: S.RAJKOVIC  
Date: 08/09/22  
AN: 2951054  
Approved: T.LIAKPOPOULOS  
Date: 30/09/22  
AN: 889495  
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**LEGEND**

- SEWER MAIN & MANHOLE
- SW DRAIN & PIT
- HOUSE DRN | PROP. INLET
- FINISHED SURFACE LEVEL
- EX. SURFACE LEVEL
- TOP OF BATTER LEVEL
- SIGNAGE
- LIP PROFILE SETOUT
- ELECTRICITY
- TELECOMMUNICATIONS
- GAS
- WATER
- RECYCLED WATER
- DW/NDW/GAS CONDUITS
- EX. DRAIN & PIT
- EX. SEWER MAIN & MH
- MAJOR FS CONTOUR
- MINOR FS CONTOUR
- CROWN LINES
- OPEN EARTH DRAIN
- PROPOSED TREE
- FINISHED SURFACE
- FILLING OVER 300mm

TURN AREA  
ASPHALT PAVEMENT  
CONCRETE PATH | D'WAY  
RAISED PLATFORM

DEVELOPMENT VICTORIA

Coords: MGA Levels: AHD

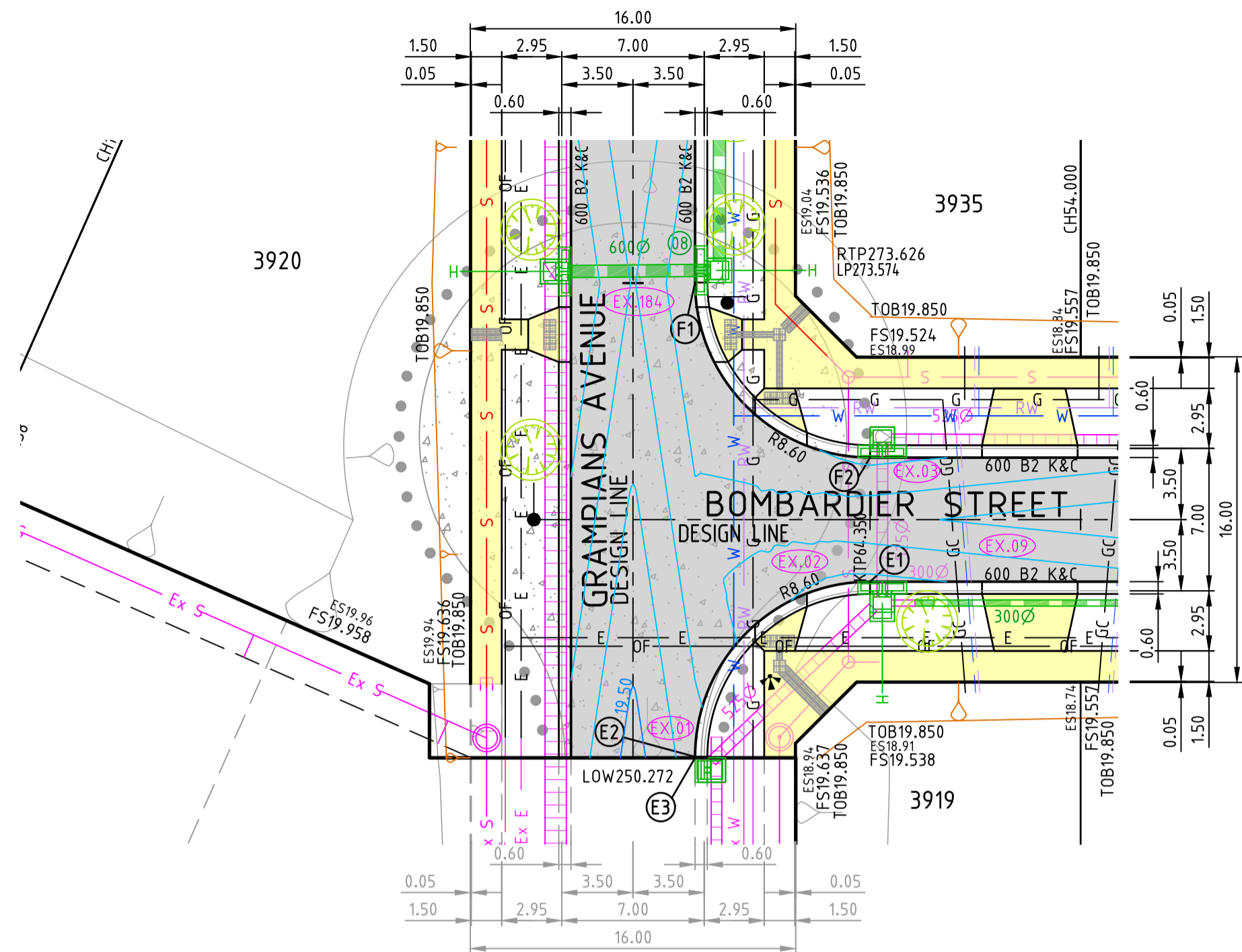
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Scale @ A1/A3 H1:250/500 V1:50/100

**RIVERWALK**  
STAGE 39  
GEELONG ROAD, WERRIBEE  
WYNDHAM CITY COUNCIL  
INTERSECTION DETAILS  
SHEET 01 OF 03  
Drawing No. 10939ID01  
Sheet No. 06 of 29

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**PRELIMINARY**



**ALIGNMENT E**

POINT NO	EASTING	NORTHING	RL
E1	293146.356	5801394.029	19.287
E2	293136.824	5801386.475	19.419
E3	293136.818	5801386.421	19.419

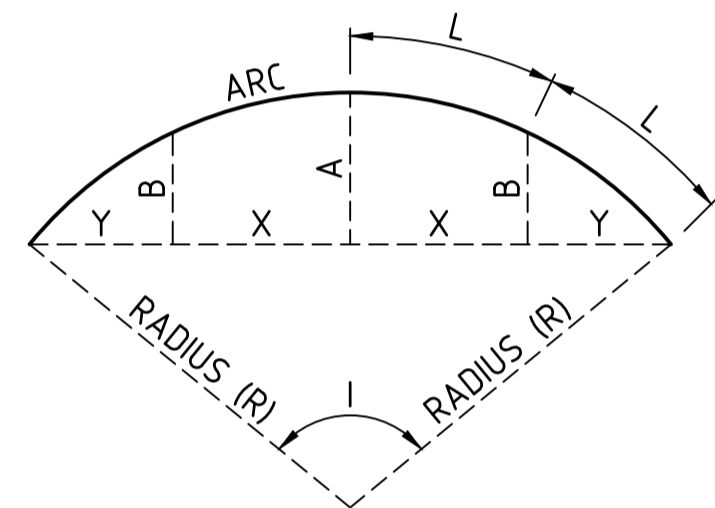
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
E1 - E2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	19.339

**ALIGNMENT F**

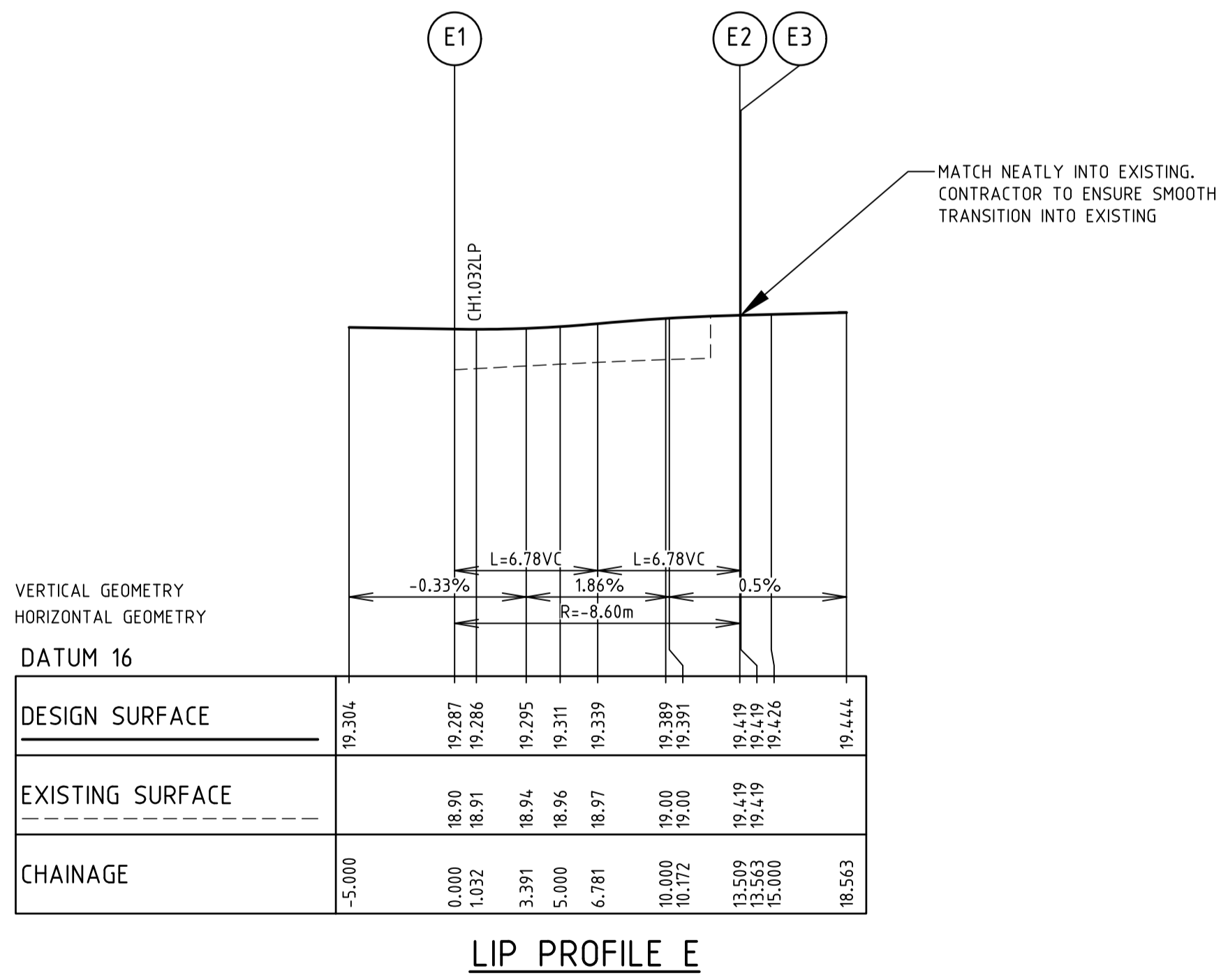
POINT NO	EASTING	NORTHING	RL
F1	293139.503	5801409.620	19.303
F2	293147.057	5801400.089	19.287

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
F1 - F2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	19.321



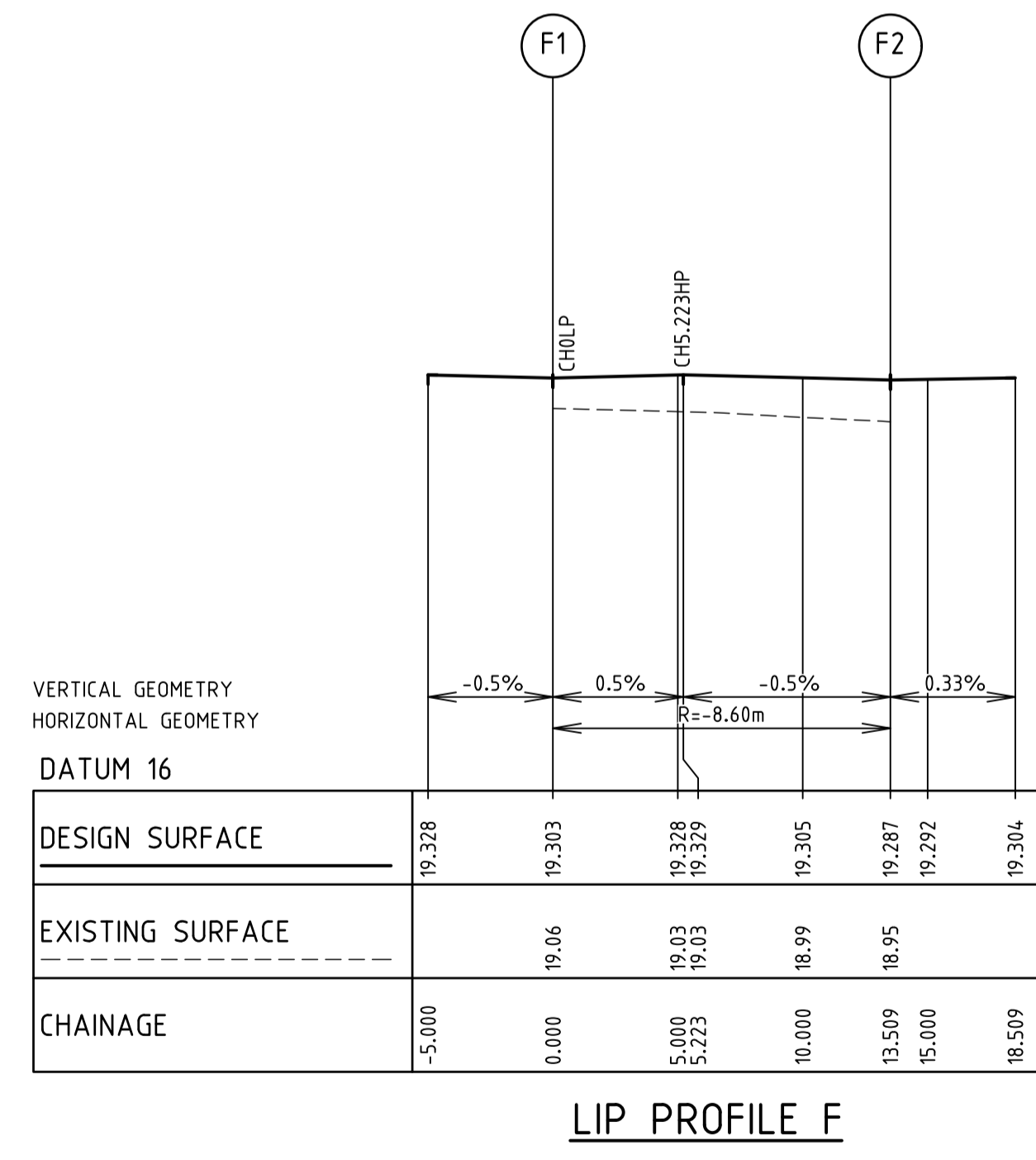
**LIP SETOUT DETAIL**  
NOT TO SCALE



VERTICAL GEOMETRY  
HORIZONTAL GEOMETRY  
DATUM 16

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
19.304	18.90	-5.000
19.287	18.91	0.000
19.286	18.94	1.022
19.295	18.96	3.391
19.311	18.97	5.000
19.339	19.00	6.781
19.389	19.00	10.000
19.391	19.00	10.172
19.419	19.419	13.509
19.419	19.419	13.563
19.426	19.419	15.000
19.444		18.563

**LIP PROFILE E**



VERTICAL GEOMETRY  
HORIZONTAL GEOMETRY  
DATUM 16

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
19.328		-5.000
19.303	19.06	0.000
19.328	19.03	5.000
19.329	19.03	5.223
19.305	18.99	10.000
19.287	18.95	13.509
19.292		15.000
19.304		18.509

**LIP PROFILE F**

**NOTE: END OF PAVEMENT WORKS**  
CONCRETE EDGE STRIP AND AG DRAIN TO BE INSTALLED TO THE END OF ALL PAVEMENT WORKS.

**NOTE: EXISTING SERVICES**  
ALL EXISTING SERVICES UNDER NEW AND PROPOSED ROAD PAVEMENT, FOOTPATH AND DRIVEWAYS TO BE FCR BACKFILLED.

**NOTE: EXISTING STRUCTURES**  
ALL EXISTING DRAINAGE PITS AND SEWER STRUCTURES WITHIN NEW WORKS ARE TO BE ADJUSTED TO MATCH NEW FINISHED SURFACE LEVELS.

**NOTE: TACTILE PAVING**  
TACTILE GROUND SURFACE INDICATORS (TGS/IS) ARE SHOWN INDICATIVELY AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH AS/NZS 1428.4:12009.

**CAUTION!**  
ALL EXISTING SERVICES IN THE VICINITY OF WORKS SHALL BE PROTECTED AND KEPT IN FUNCTIONAL STATE AT ALL TIMES DURING WORKS.

**BWARE!**  
NBN OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 1800 687 626.

**BWARE!**  
TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 9253 8263.

**BWARE!**  
TELSTRA MAJOR CABLES ARE IN THE VICINITY OF WORKS.

**BWARE!**  
DEVELOPMENT VICTORIA FTTH OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 03 9311 4575.

**WARNING!**  
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**DANGER!**  
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**WARNING!**  
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

**WARNING!**  
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**NOT TO BE USED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	AMEND	APPD
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

Drawn: R.GUTIERREZ  
Date: 12/08/22  
AN: 3401091  
Designed: P.NICHOLSON  
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AN: 3791013  
Checked: S.RAJKOVIC  
Date: 08/09/22  
AN: 2951054  
Approved: T.LIAKOPPOULOS  
Date: 30/09/22  
AN: 889495

**LEGEND**

- SEWER MAIN & MANHOLE
- SW DRAIN & PIT
- HOUSE DRN | PROP. INLET
- FINISHED SURFACE LEVEL
- EX. SURFACE LEVEL
- ES20.06
- TOB21.650
- TOP OF BATTER LEVEL
- SIGNAGE
- LIP PROFILE SETOUT
- ELECTRICITY
- TELECOMMUNICATIONS
- GAS
- WATER
- RECYCLED WATER
- DW/NDW/GAS CONDUITS
- EX. DRAIN & PIT
- EX. SEWER MAIN & MH
- MAJOR FS CONTOUR
- MINOR FS CONTOUR
- CROWN LINES
- OPEN EARTH DRAIN
- PROPOSED TREE
- FINISHED SURFACE
- EXISTING SURFACE
- FILLING OVER 300mm

TURN AREA  
ASPHALT PAVEMENT  
CONCRETE PATH | D'WAY  
RAISED PLATFORM

Coords: MGA Levels: AHD

**BEFORE YOU DIG**  
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Scale @ A1/A3  
H1:250/500 V1:50/100

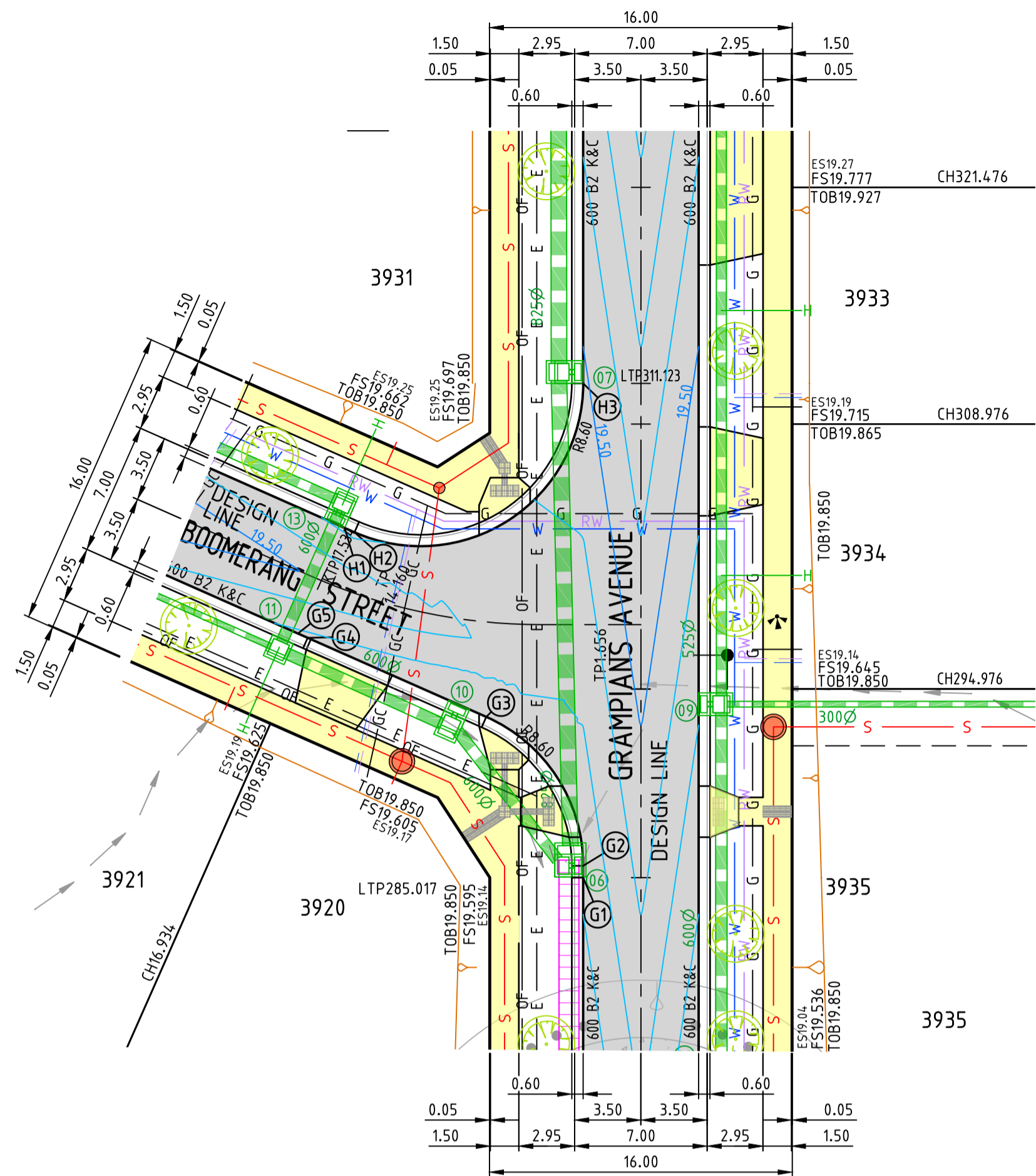
**RIVERWALK**  
STAGE 39  
GEELONG ROAD, WERRIBEE  
WYNDHAM CITY COUNCIL  
INTERSECTION DETAILS  
SHEET 02 OF 03  
Drawing No. 10939ID02  
Sheet No. 07 of 29

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**PRELIMINARY**

Drawing File: C:\124\_Synergy\delta\delta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_ACO\4-RO\10939ID02.dwg - 002  
Date/Time: Fri Sep 30, 2022 - 3:02pm - frankh--





**ALIGNMENT G**

POINT NO	EASTING	NORTHING	RL
G1	293134.753	5801421.637	19.360
G2	293134.824	5801422.257	19.363
G3	293130.644	5801430.657	19.359
G4	293121.754	5801435.890	19.380
G5	293121.264	5801436.179	19.393

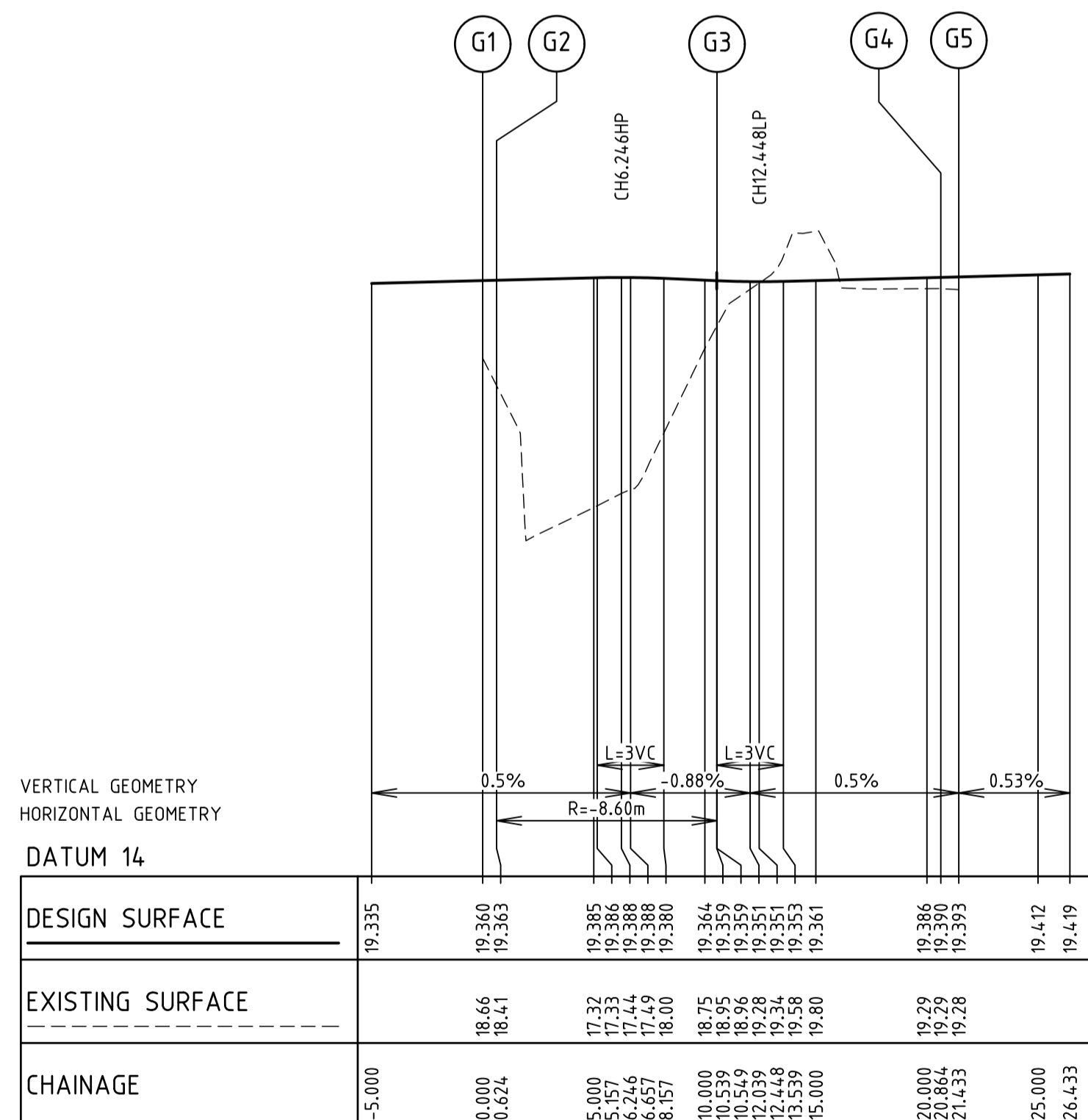
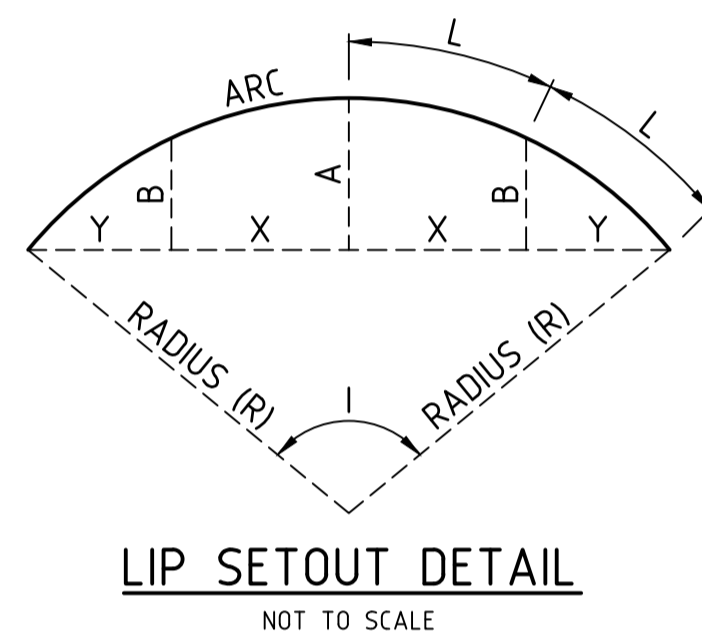
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
G2 - G3	66.120	8.600	9.924	1.392	1.037	2.447	2.245	2.481	19.387

**ALIGNMENT H**

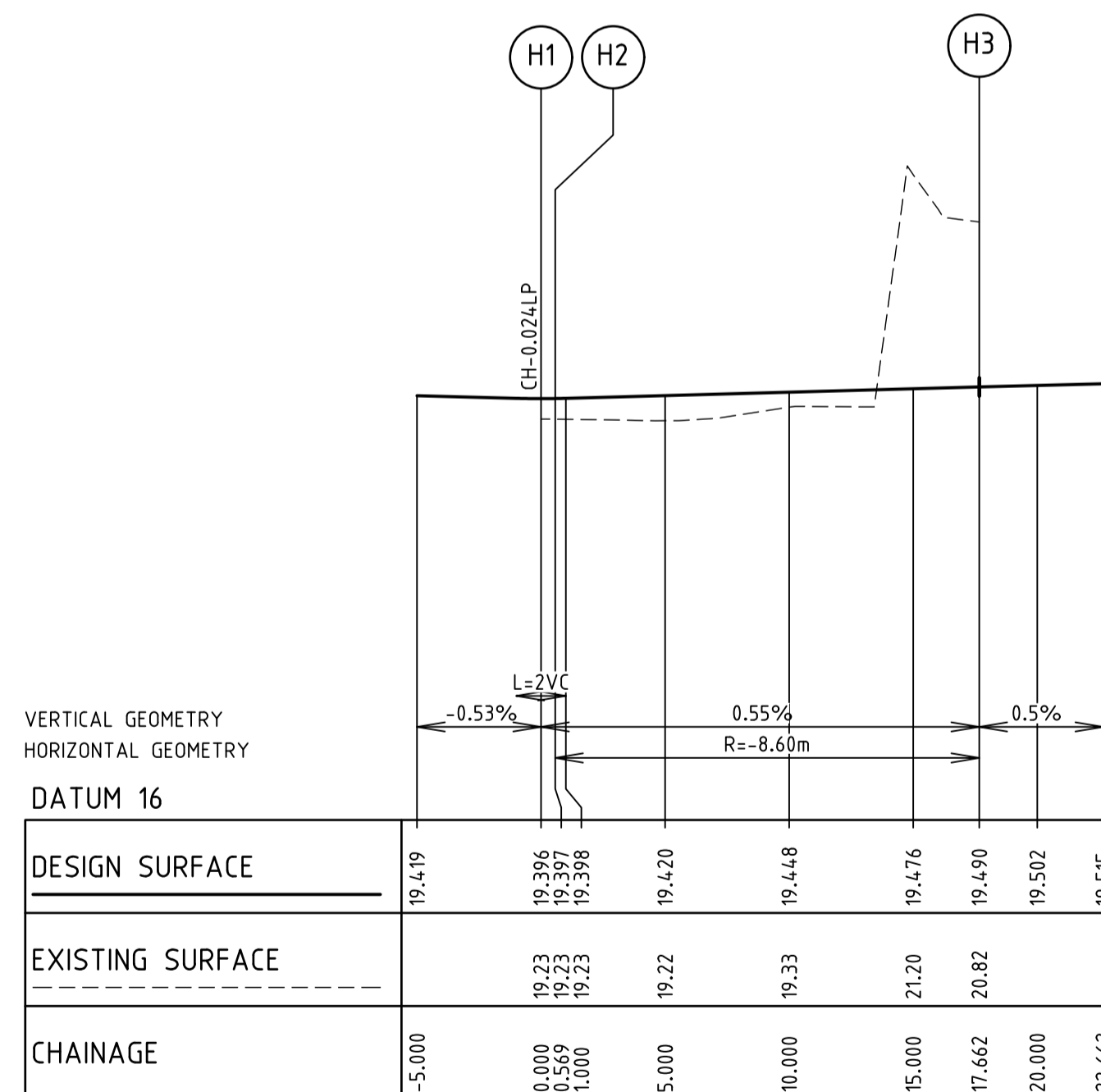
POINT NO	EASTING	NORTHING	RL
H1	293124.358	5801441.436	19.396
H2	293124.848	5801441.147	19.397
H3	293137.754	5801447.570	19.490

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
H2 - H3	113.880	8.600	17.093	3.909	2.869	4.100	3.108	4.273	19.443



**LIP PROFILE G**



**LIP PROFILE H**

**NOTE: END OF PAVEMENT WORKS**  
CONCRETE EDGE STRIP AND AG DRAIN TO BE INSTALLED TO THE END OF ALL PAVEMENT WORKS.

**NOTE: EXISTING SERVICES**  
ALL EXISTING SERVICES UNDER NEW AND PROPOSED ROAD PAVEMENT, FOOTPATH AND DRIVEWAYS TO BE FCR BACKFILLED.

**NOTE: EXISTING STRUCTURES**  
ALL EXISTING DRAINAGE PITS AND SEWER STRUCTURES WITHIN NEW WORKS ARE TO BE ADJUSTED TO MATCH NEW FINISHED SURFACE LEVELS.

**NOTE: TACTILE PAVING**  
TACTILE GROUND SURFACE INDICATORS (TGSIS) ARE SHOWN INDICATIVELY AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH AS/NZS 1428.4:12009.

**CAUTION!**  
ALL EXISTING SERVICES IN THE VICINITY OF WORKS SHALL BE PROTECTED AND KEPT IN FUNCTIONAL STATE AT ALL TIMES DURING WORKS.

**BEWARE!**  
NBN OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 1800 687 626.

**BEWARE!**  
TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 9253 8263.

**BEWARE!**  
TELSTRA MAJOR CABLES ARE IN THE VICINITY OF WORKS.

**BEWARE!**  
DEVELOPMENT VICTORIA FTTH OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 03 9311 4575.

**WARNING!**  
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

**DANGER!**  
OVERHEAD ELECTRICITY TRANSMISSION LINES. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE LINES. THE CONTRACTOR MUST ADHERE TO ALL "NO GO ZONE" REQUIREMENTS OF THE POWER AUTHORITY.

**WARNING!**  
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

**WARNING!**  
**BEWARE OF ASBESTOS!**  
SOME UNDERGROUND SERVICES MAY BE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD.

**NOT TO BE USED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	AMEND	APPD
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

Drawn R.GUTIERREZ  
Date 12/08/22  
AN 3401091  
Designed P.NICHOLSON  
Date 21/07/22  
AN 3791013  
Checked S.RAJKOVIC  
Date 08/09/22  
AN 2951054  
Approved T.LIAKOPOULOS  
Date 30/09/22  
AN 889495

- LEGEND**
- SEWER MAIN & MANHOLE
  - SW DRAIN & PIT
  - HOUSE DRN | PROP. INLET
  - FS21.650 FINISHED SURFACE LEVEL
  - ES20.06 EX. SURFACE LEVEL
  - TOB21.650 TOP OF BATTER LEVEL
  - SIGNAGE
  - LIP PROFILE SETOUT
  - ELECTRICITY
  - TELECOMMUNICATIONS
  - GAS
  - WATER
  - RECYCLED WATER
  - DW/NDW/GAS CONDUITS
  - EX. DRAIN & PIT
  - EX. SEWER MAIN & MH
  - MAJOR FS CONTOUR
  - MINOR FS CONTOUR
  - CROWN LINES
  - OPEN EARTH DRAIN
  - PROPOSED TREE
  - FINISHED SURFACE
  - EXISTING SURFACE
  - FILLING OVER 300mm

TURN AREA  
ASPHALT PAVEMENT  
CONCRETE PATH | D'WAY  
RAISED PLATFORM

Coords: MGA Levels: AHD

**DEVELOPMENT VICTORIA**

Scale @ A1/A3  
H: 0m 2.5m 5m 10m 15m  
V: 0m 0.5m 1m 2m 3m  
H1:250/500 V1:50/100

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**RIVERWALK**  
STAGE 39  
GEELONG ROAD, WERRIBEE  
WYNDHAM CITY COUNCIL  
INTERSECTION DETAILS  
SHEET 03 OF 03  
Drawing No. 10939ID03  
Sheet No. 08 of 29

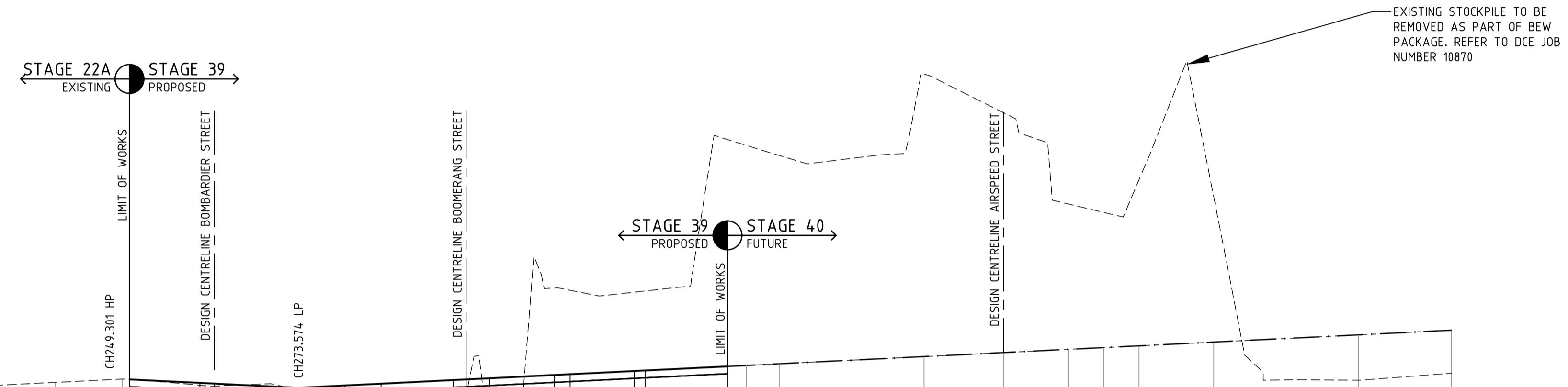
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 Date/Time: Fri Sep 30, 2022 - 3:03pm - frankh--



CHAINAGE	DESIGN SURFACE RL	EXISTING SURFACE RL	BEW SURFACE RL	DESIGN LEFT KERB RL	DESIGN RIGHT KERB RL
200.272	19.280				
220.000	19.379	19.379			
240.000	19.479	19.466			
249.331	19.526	19.527			
250.272	19.521	19.521	19.521	19.419	19.419
260.000	19.472	19.439	19.472	19.370	19.370
261.976	19.462	19.424	19.462	19.360	19.360
273.574	19.404	19.311	19.404	19.303	19.303
273.626	19.404	19.339	19.404	19.303	19.303
280.000	19.436	19.203	19.436	19.335	19.335
285.017	19.461	18.797	19.461	19.360	19.360
294.976	19.511	19.466	19.511	19.410	19.410
296.766	19.520	19.350	19.520	19.418	19.418
300.000	19.536	19.316	19.536	19.435	19.435
308.976	19.581	20.784	19.581	19.480	19.480
311.123	19.592	20.752	19.592	19.490	19.490
320.000	19.636	20.726	19.636	19.535	19.535
321.476	19.644	20.743	19.644	19.542	19.542
332.855	19.701	22.837	19.701	19.599	19.599
335.476	19.714	22.755	19.714		
340.000	19.736	22.616	19.736		
360.000	19.836	23.740	19.836		
370.963	19.891	23.207	19.891		
380.000	19.936	21.944	19.936		
384.827	19.950	21.828	19.950		
389.682	19.985	22.279	19.985		
400.000	20.036	22.047	20.036		
420.000	20.136	19.509	20.136		
432.855	20.201	19.605	20.200		

LONGITUDINAL SECTION GRAMPIANS AVENUE DESIGN LINE

**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)

**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPoulos  
 Date 30/09/22  
 AN 889495  
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**LEGEND**

---	EXISTING SURFACE	---	RIGHT LIP (PREVIOUS)
---	FINISHED SURFACE	---	RIGHT LIP (FUTURE)
---	FIN. SUR. (FUTURE STG.)		
---	FIN. SUR. (PREVIOUS STG.)		
---	LEFT LIP OF KERB		
---	LEFT LIP (PREVIOUS)		
---	LEFT LIP (FUTURE)		
---	RIGHT LIP OF KERB		



Coords: MGA Levels: AHD  
 H 0m 5m 10m 20m 30m  
 V 0m 0.5m 1m 2m 3m  
 Scale @ A1/A3 H1:500/1000 V1:50/100

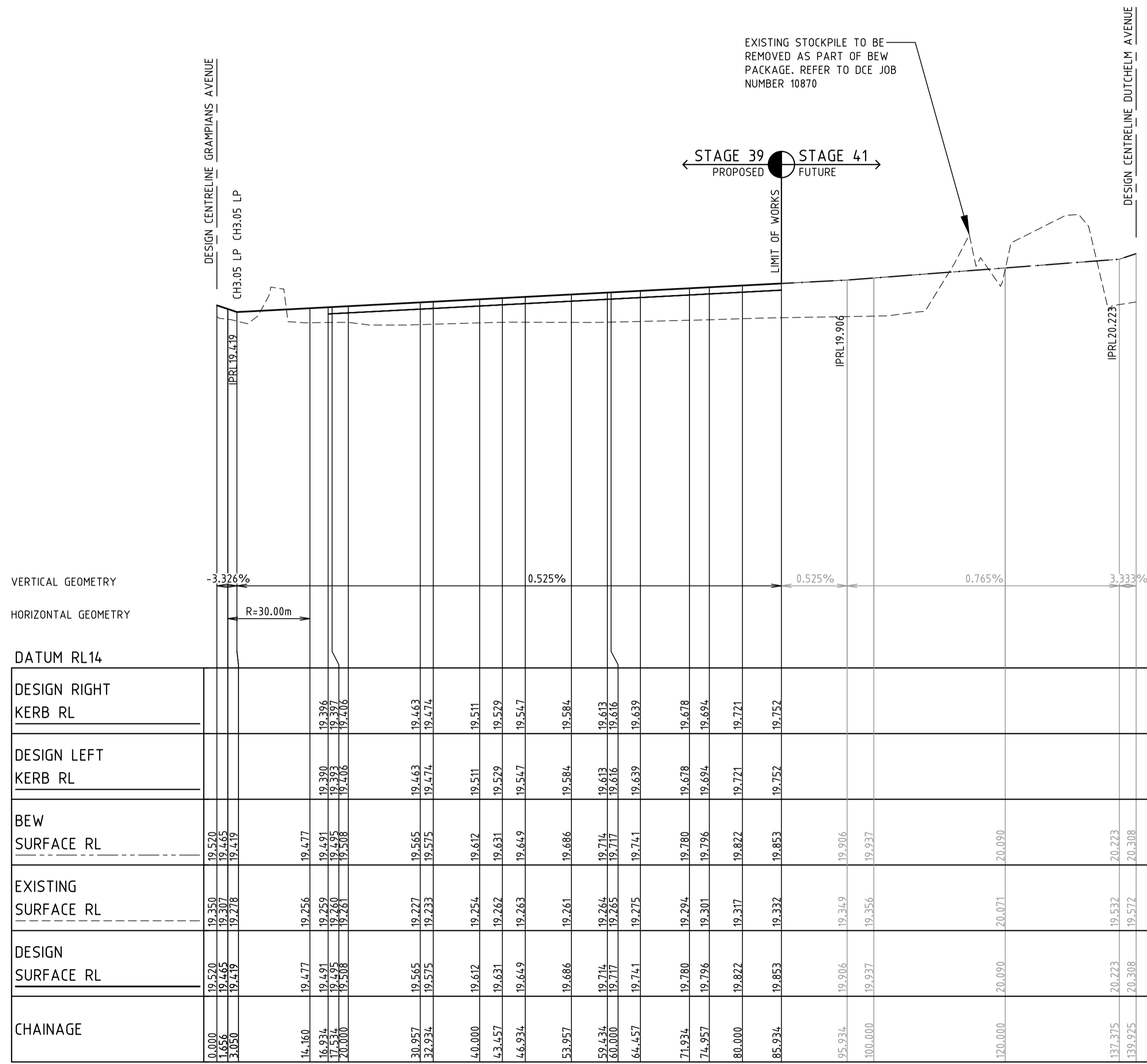
**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**ROAD LONGITUDINAL SECTIONS**  
**SHEET 01 OF 04**  
**Drawing No. 10939LS01**  
 Sheet No. 10 of 29

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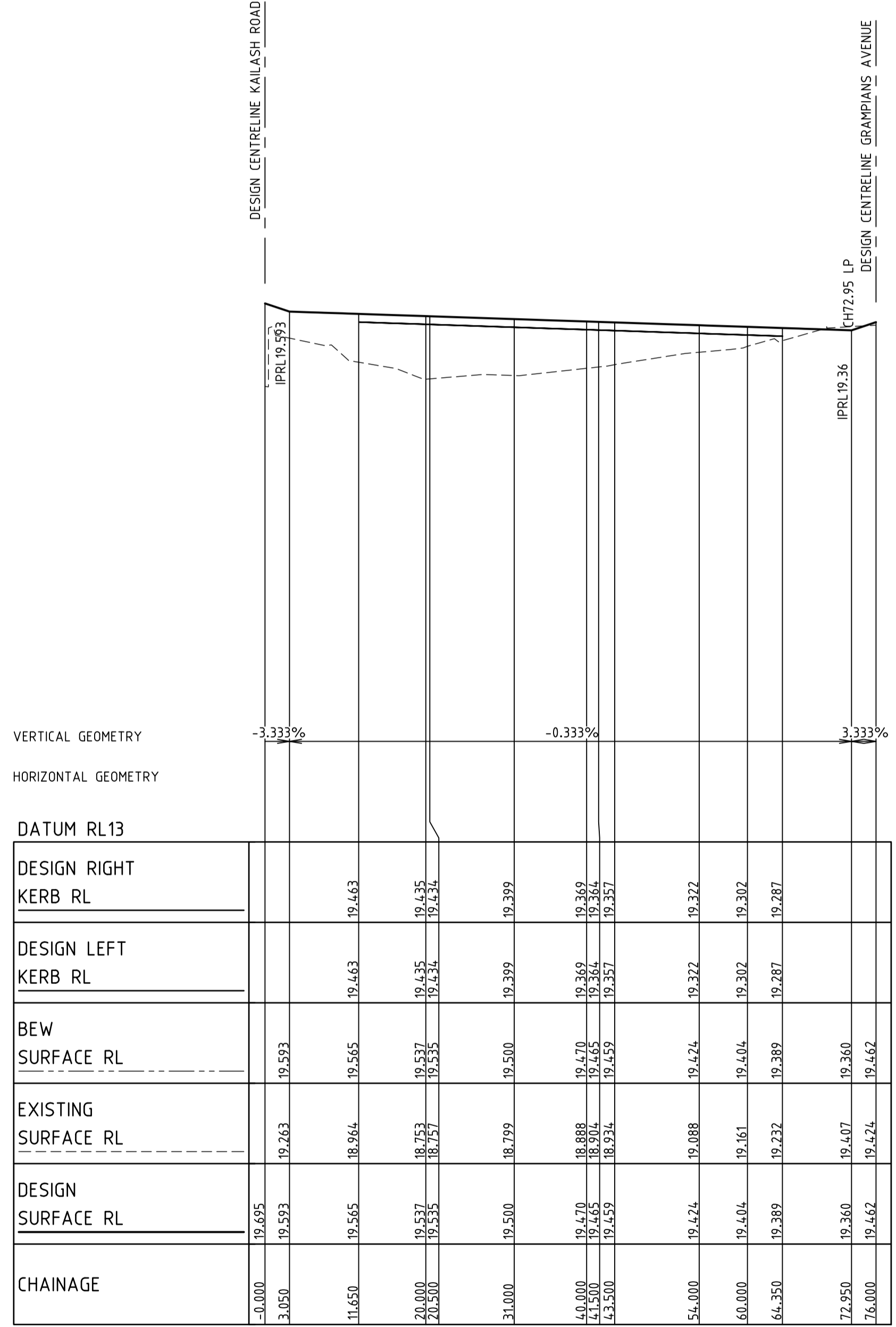
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 Date/Time: Fri Sep 30, 2022 - 3:03pm - frankh--



LONGITUDINAL SECTION BOOMERANG STREET DESIGN LINE



LONGITUDINAL SECTION BOMBARDIER STREET DESIGN LINE

**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO A53798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)

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 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495

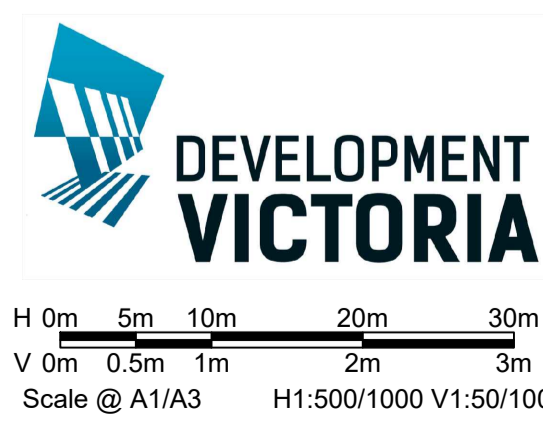
**LEGEND**

- EXISTING SURFACE
- FINISHED SURFACE
- FIN. SUR. (FUTURE STG.)
- FIN. SUR. (PREVIOUS STG.)
- LEFT LIP OF KERB
- LEFT LIP (PREVIOUS)
- LEFT LIP (FUTURE)
- RIGHT LIP OF KERB
- RIGHT LIP (PREVIOUS)
- RIGHT LIP (FUTURE)

REV	DESCRIPTION	DATE	AMEND	APP'D
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

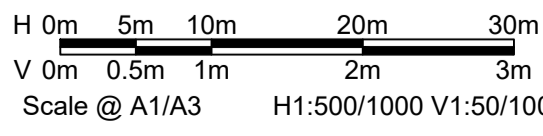
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**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**ROAD LONGITUDINAL SECTIONS**  
**SHEET 02 OF 04**  
**Drawing No. 10939L02**  
 Sheet No. 11 of 29



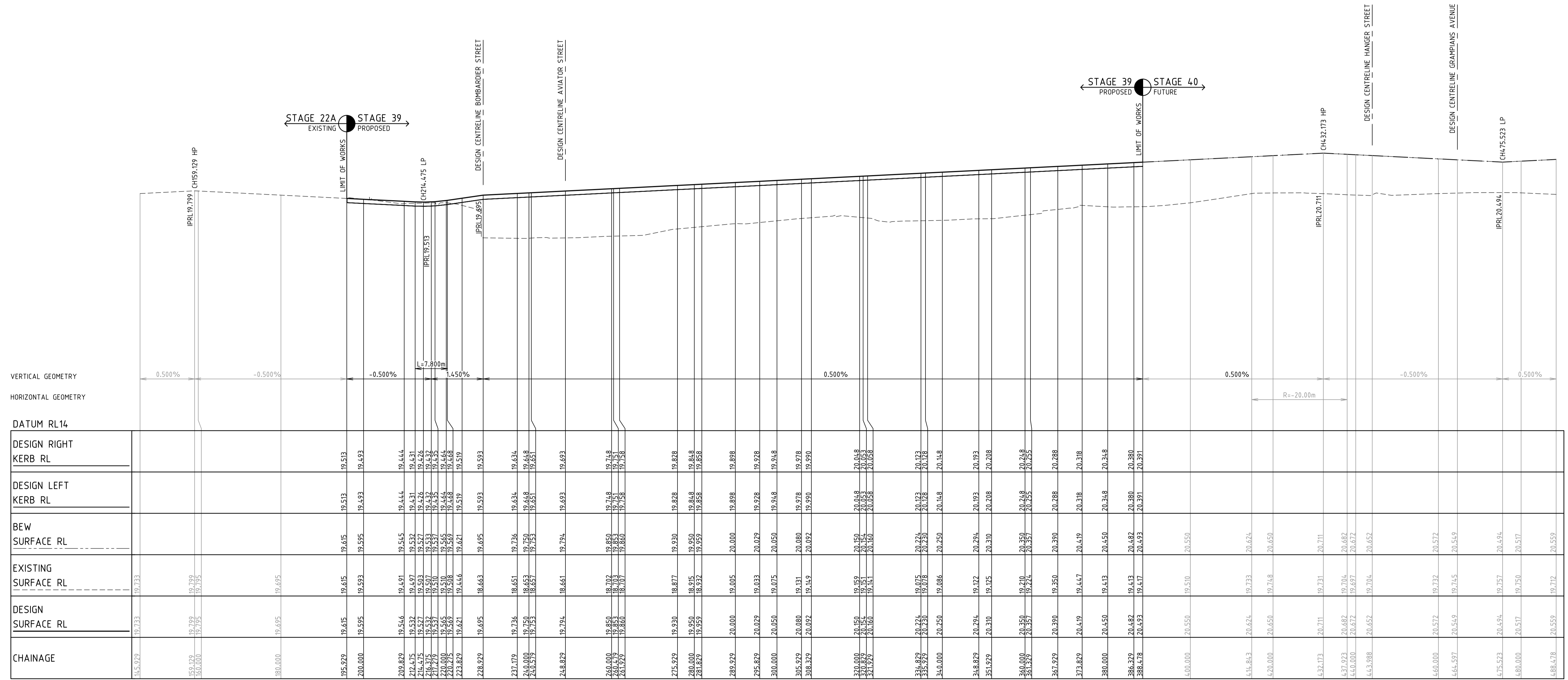
**PRELIMINARY**



Rev 0

**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS  
 WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO  
 SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT  
 REFERENCE NUMBER 10870)



LONGITUDINAL SECTION KAILASH ROAD DESIGN LINE

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 CONSTRUCTION**

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 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495

**LEGEND**

- EXISTING SURFACE
- FINISHED SURFACE
- FIN. SUR. (FUTURE STG.)
- FIN. SUR. (PREVIOUS STG.)
- LEFT LIP OF KERB
- LEFT LIP (PREVIOUS)
- LEFT LIP (FUTURE)
- RIGHT LIP OF KERB
- RIGHT LIP (PREVIOUS)
- RIGHT LIP (FUTURE)

REV	DESCRIPTION	DATE	PN/NR	AMEND	APP'D	TL
0	CONSTRUCTION ISSUE	30/09/22	PN/NR			TL

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Coords: MGA Levels: AHD



H 0m 5m 10m 20m 30m  
 V 0m 0.5m 1m 2m 3m  
 Scale @ A1/A3 H1:500/1000 V1:50/100

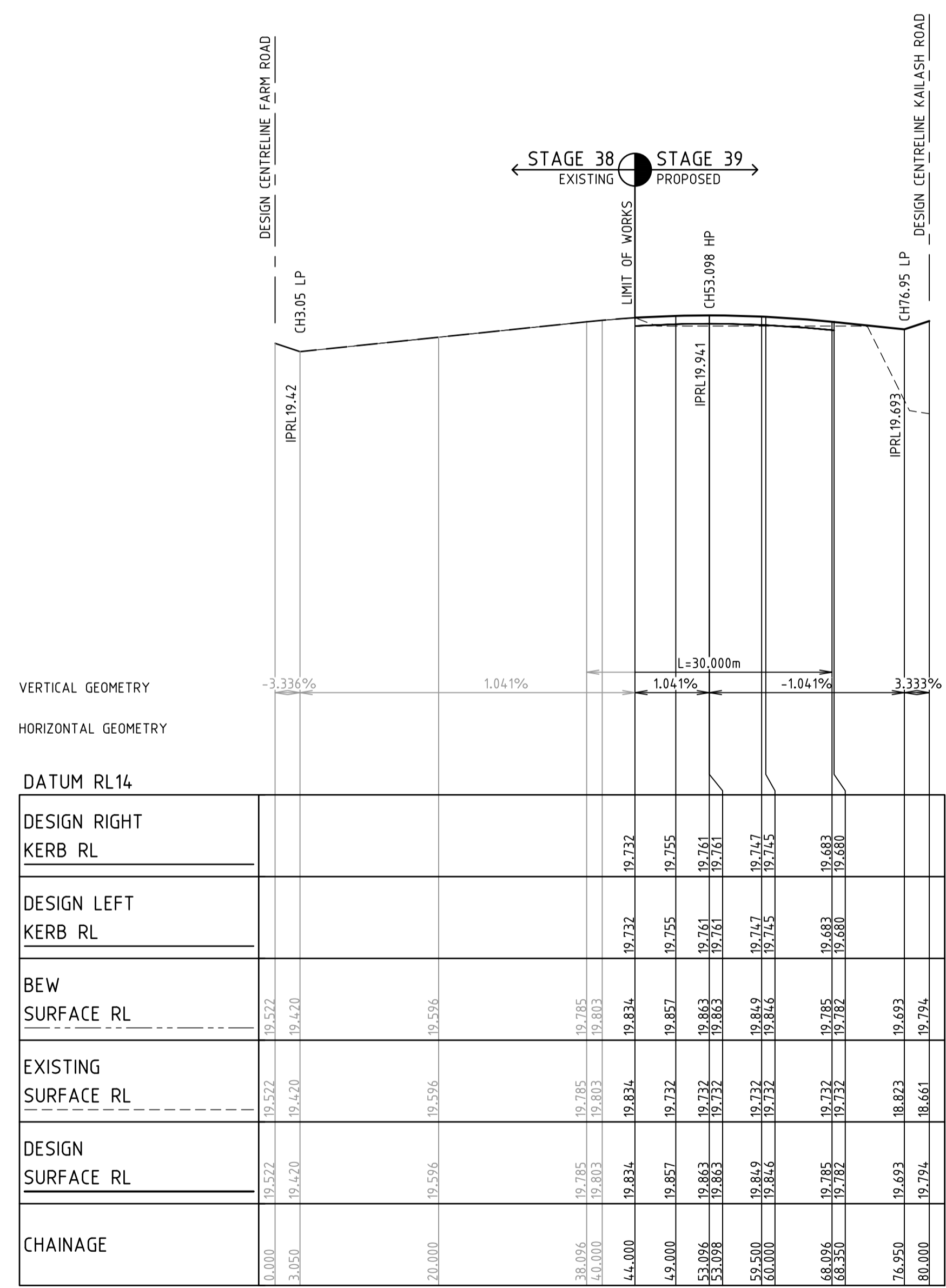
**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**ROAD LONGITUDINAL SECTIONS**  
**SHEET 03 OF 04**  
**Drawing No. 10939LS03**  
 Sheet No. 12 of 29

Rev 0

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**PRELIMINARY**

Drawing File: C:\2d\_Synergy\delta\delta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_A040\4\_B01\10939LS01.dwg - 1304  
 Date/Time: Fri Sep 30, 2022 - 3:03pm - frankh--



LONGITUDINAL SECTION AVIATOR STREET DESIGN LINE

DATUM RL14	
DESIGN RIGHT KERB RL	
DESIGN LEFT KERB RL	
BEW SURFACE RL	
EXISTING SURFACE RL	
DESIGN SURFACE RL	
CHAINAGE	

**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)

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**LEGEND**

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- FINISHED SURFACE
- FIN. SUR. (FUTURE STG.)
- FIN. SUR. (PREVIOUS STG.)
- LEFT LIP OF KERB
- LEFT LIP (PREVIOUS)
- LEFT LIP (FUTURE)
- RIGHT LIP OF KERB
- RIGHT LIP (PREVIOUS)
- RIGHT LIP (FUTURE)

REV	DESCRIPTION	DATE	AMEND	APP'D
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

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H 0m 5m 10m 20m 30m  
 V 0m 0.5m 1m 2m 3m  
 Scale @ A1/A3 H1:500/1000 V1:50/100

**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**ROAD LONGITUDINAL SECTIONS**  
**SHEET 04 OF 04**  
**Drawing No. 10939LS04**  
 Sheet No. 13 of 29

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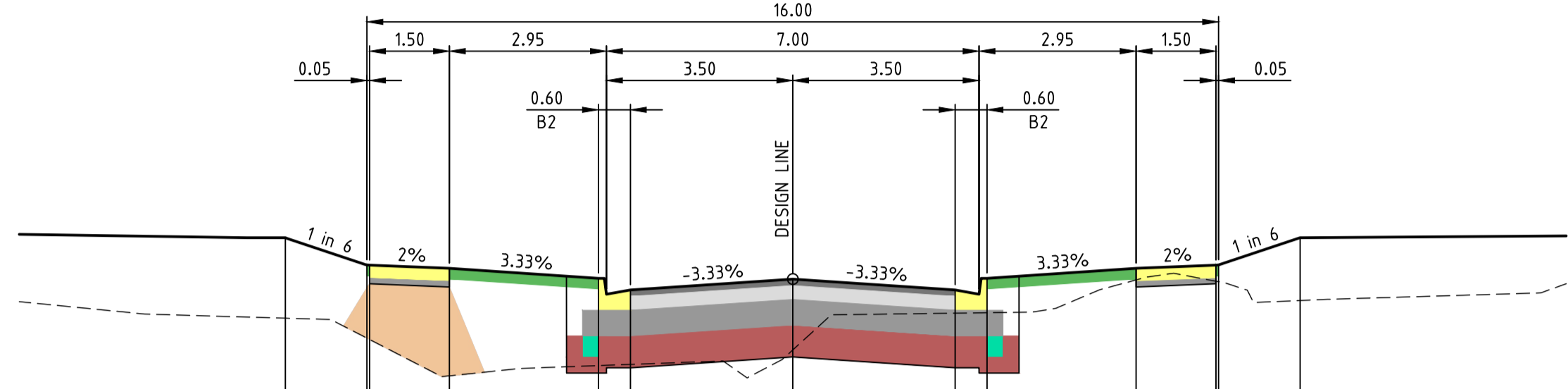
**PRELIMINARY**

Rev 0

**NOTE: TYPE A STRUCTURAL FILL**  
 TYPE A STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 204.041 OF THE VICROADS SPECIFICATION SECTION 204 FOR EARTHWORKS AND SHALL BE FREE OF TOPSOIL, DELETERIOUS MATERIAL AND PERISHABLE MATTER. ALL FILL AREAS MUST ENSURE LEVEL 1 SUPERVISION IS MAINTAINED PER AS3798-2007

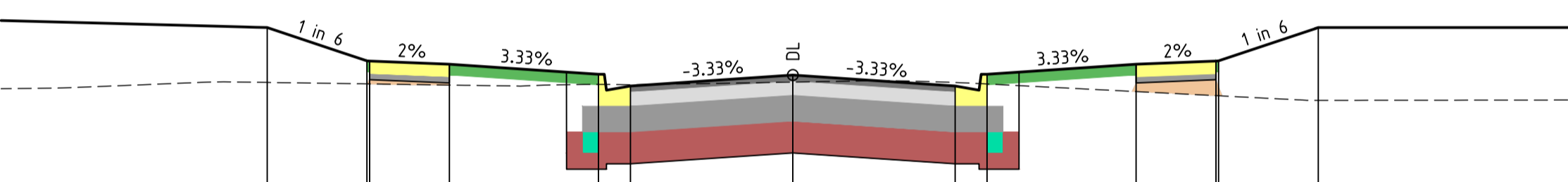
**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
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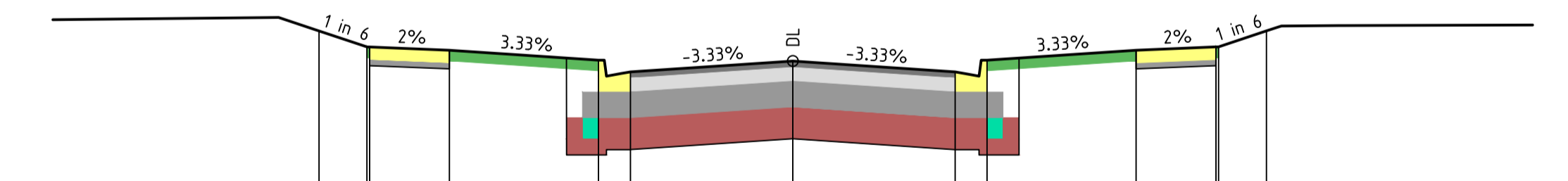
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DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET	
19.850	19.850	19.095	-0.532	
19.595	19.595	18.908	-0.000	
19.593	19.593	18.895	-0.000	
19.563	19.563	18.554	-6.450	
19.47	19.470	18.65	-3.650	
19.36	19.360	18.662	-3.050	
19.461	19.461	18.797	0.000	
19.36	19.360	19.142	3.050	
19.47	19.470	19.146	3.650	
19.563	19.563	19.454	6.450	
19.593	19.593	18.442	7.950	
19.595	19.595	18.537	8.000	
19.850	19.850	19.261	9.532	

CH 285.017



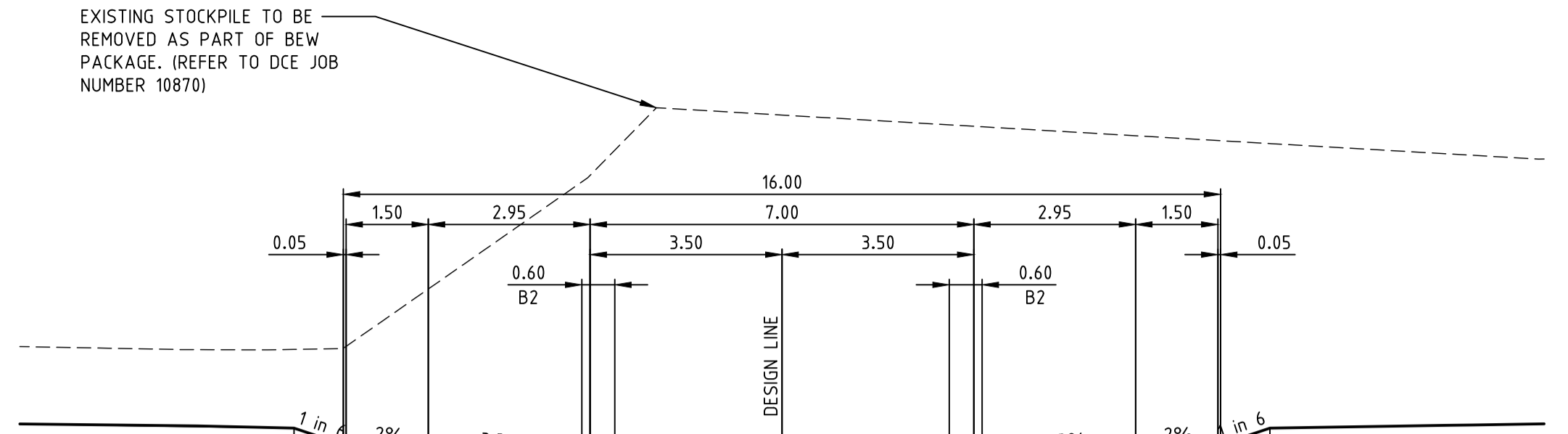
DATUM RL18.000				
DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET	
19.850	19.850	19.336	-9.873	
19.538	19.538	19.322	-0.000	
19.536	19.536	19.322	-0.000	
19.506	19.506	19.311	-6.450	
19.413	19.413	19.317	-3.650	
19.303	19.303	19.314	-3.050	
19.404	19.404	19.339	0.000	
19.303	19.303	19.335	3.050	
19.413	19.413	19.322	3.650	
19.506	19.506	19.25	6.450	
19.536	19.536	19.212	7.950	
19.538	19.538	19.211	8.000	
19.850	19.850	19.168	9.873	

CH 273.626



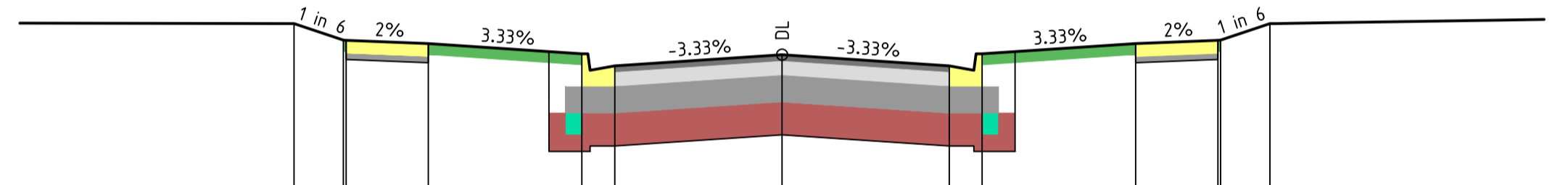
DATUM RL18.000				
DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET	
19.804	19.803	19.803	0.000	
19.654	19.653	19.653	-0.000	
19.652	19.652	19.652	-0.000	
19.622	19.622	19.622	-0.000	
19.529	19.529	19.529	-0.000	
19.419	19.419	19.419	-0.000	
19.521	19.521	19.521	0.000	
19.419	19.419	19.419	-0.000	
19.529	19.529	19.529	-0.000	
19.622	19.622	19.622	-0.000	
19.652	19.652	19.652	-0.000	
19.654	19.654	19.654	-0.000	
19.804	19.804	19.804	0.000	

CH 250.272 L.O.W.



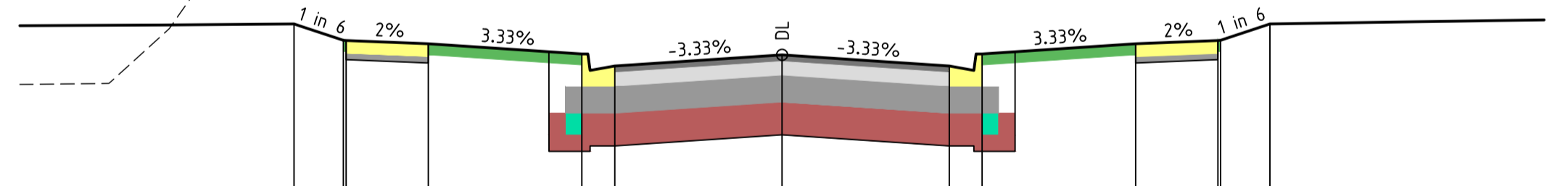
DATUM RL18.000				
DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET	
19.984	19.984	20.701	-8.900	
19.834	19.834	20.712	-8.000	
19.832	19.832	20.729	-7.950	
19.802	19.802	21.252	-6.450	
19.709	19.709	22.228	-3.650	
19.599	19.599	22.516	-3.050	
19.701	19.701	22.837	0.000	
19.599	19.599	22.748	3.050	
19.709	19.709	22.73	3.650	
19.802	19.802	22.648	6.450	
19.832	19.832	22.645	7.950	
19.834	19.834	22.683	8.000	
19.984	19.984	22.577	8.900	

CH 332.855 L.O.W.



DATUM RL18.000				
DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET	
19.927	19.927	20.754	-8.900	
19.777	19.777	20.753	-8.000	
19.775	19.775	20.753	-7.950	
19.745	19.745	20.75	-6.450	
19.652	19.652	20.745	-3.650	
19.542	19.542	20.744	-3.050	
19.644	19.644	20.743	0.000	
19.542	19.542	20.785	3.050	
19.652	19.652	20.793	3.650	
19.745	19.745	20.82	6.450	
19.775	19.775	20.811	7.950	
19.777	19.777	20.811	8.000	
19.927	19.927	21.46	8.900	

CH 321.476



DATUM RL18.000				
DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET	
19.875	19.875	21.283	-8.900	
19.725	19.725	21.194	-8.000	
19.724	19.724	21.189	-7.950	
19.694	19.694	20.248	-6.450	
19.6	19.600	20.831	-3.650	
19.49	19.490	20.82	-3.050	
19.592	19.592	20.752	0.000	
19.49	19.490	20.678	3.050	
19.6	19.600	20.664	3.650	
19.694	19.694	20.595	6.450	
19.724	19.724	20.588	7.950	
19.725	19.725	20.588	8.000	
19.875	19.875	20.588	8.900	

CH 311.123

GRAMPIANS AVENUE

**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495

**LEGEND**

- ASPHALT
- BASE
- SUBBASE
- CAPPING/CONSTRUCTION LAYER
- AG DRAIN
- CONCRETE
- TOPSOIL & SEED
- STRUCTURAL FILL
- EXISTING SURFACE
- FINISHED SURFACE
- BEW SURFACE

Drawing File: C:\2d\_Synergy\delta\delta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_A040\4\_20\10939XS01.dwg - 75301  
 Date/Time: Fri Sep 30, 2022 - 3:03pm - frankh--

REV	DESCRIPTION	DATE	AMEND	APPD
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.  
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Scale @ A1/A3  
 H: 0m 1m 2m 4m 6m  
 V: 0m 0.5m 1m 2m 3m  
 H1:100/200 V1:50/100

**RIVERWALK**  
 STAGE 39  
 GEELONG ROAD, WERRIBEE  
 WYNDHAM CITY COUNCIL  
 CROSS SECTIONS  
 SHEET 01 OF 07  
 Drawing No. 10939XS01  
 Sheet No. 14 of 29

Rev 0

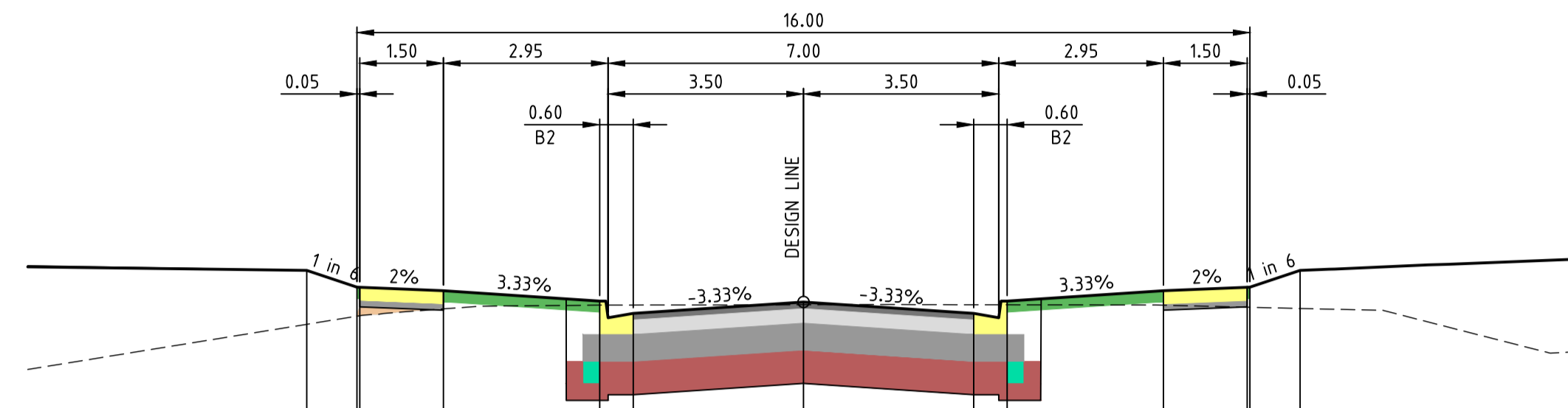
**DALTON CONSULTING ENGINEERS**  
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 T +61 3 9813 7400  
 T +61 3 5246 1700  
 T +61 7 3374 9000  
 E info@dceng.com.au

**PRELIMINARY**

**NOTE: TYPE A STRUCTURAL FILL**  
 TYPE A STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 204.041 OF THE VICROADS SPECIFICATION SECTION 204 FOR EARTHWORKS AND SHALL BE FREE OF TOPSOIL, DELETERIOUS MATERIAL AND PERISHABLE MATTER. ALL FILL AREAS MUST ENSURE LEVEL 1 SUPERVISION IS MAINTAINED PER AS3798-2007

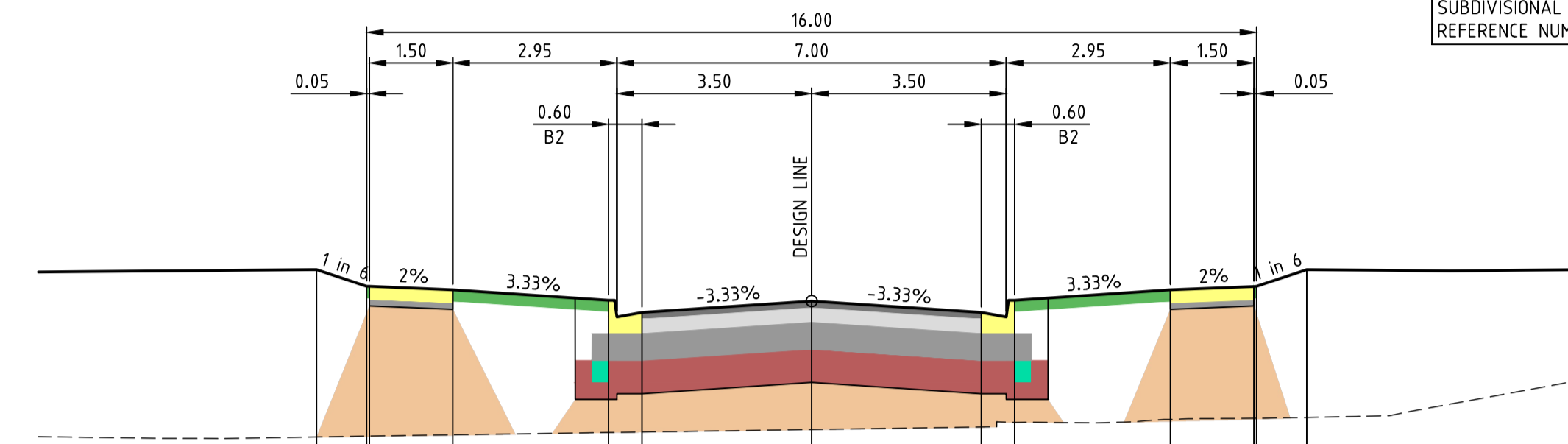
**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)



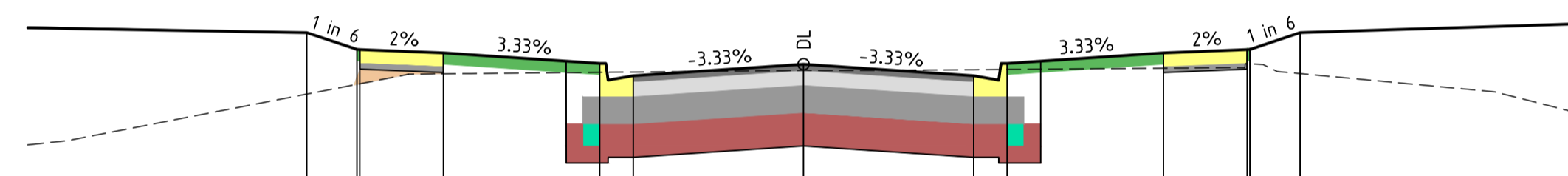
DATUM RL18.000				
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DESIGN SURFACE	19.811	19.811	19.536	19.577
BEW SURFACE	19.811	19.811	19.536	19.577
EXISTING SURFACE	19.327	19.404	19.426	19.503
OFFSET	-8.900	-8.000	-3.650	0.000

CH 214.475



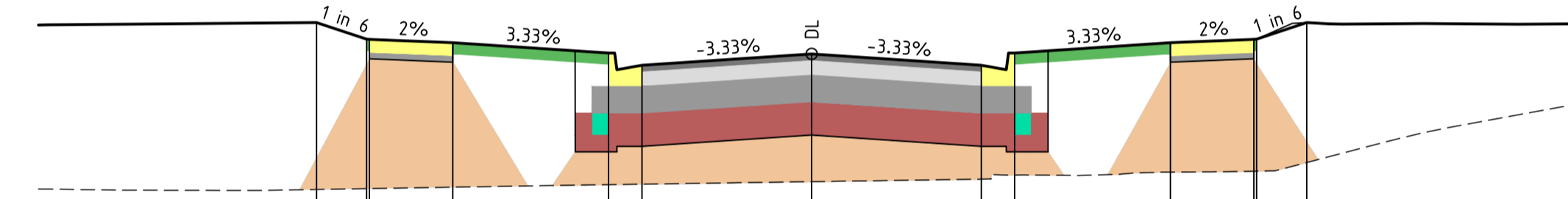
DATUM RL18.000				
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DESIGN SURFACE	20.143	20.143	19.868	19.860
BEW SURFACE	20.143	20.143	19.868	19.860
EXISTING SURFACE	18.644	18.648	18.684	18.707
OFFSET	-8.900	-8.000	-3.650	0.000

CH 261.929



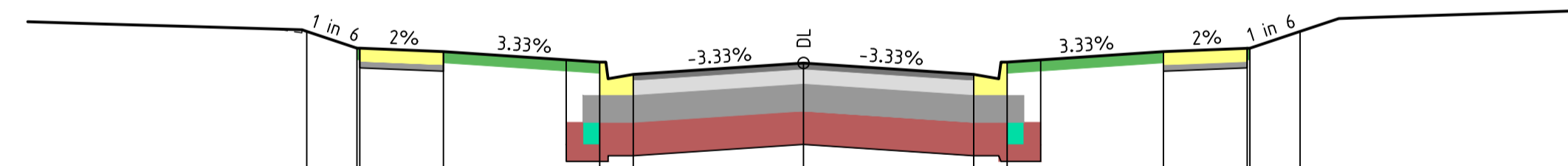
DATUM RL18.000				
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DESIGN SURFACE	19.829	19.829	19.554	19.546
BEW SURFACE	19.829	19.829	19.554	19.546
EXISTING SURFACE	19.279	19.367	19.444	19.491
OFFSET	-8.900	-8.000	-3.650	0.000

CH 209.829



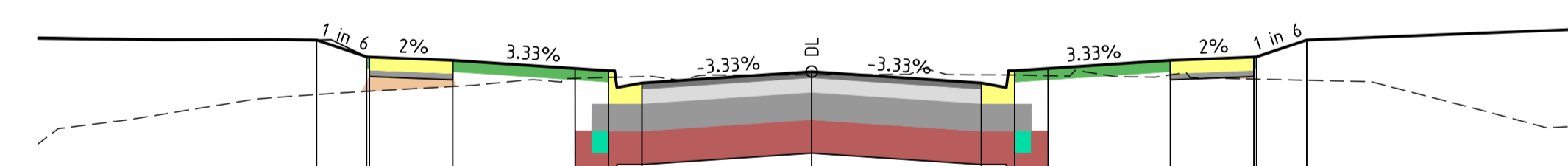
DATUM RL18.000				
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DESIGN SURFACE	20.136	20.136	19.861	19.853
BEW SURFACE	20.136	20.136	19.861	19.853
EXISTING SURFACE	18.633	18.641	18.676	18.703
OFFSET	-8.900	-8.000	-3.650	0.000

CH 260.479



DATUM RL18.000				
	0.05	1.50	2.95	7.00
DESIGN SURFACE	19.898	19.898	19.623	19.615
BEW SURFACE	19.898	19.898	19.623	19.615
EXISTING SURFACE	19.898	19.748	19.513	19.615
OFFSET	-8.900	-8.000	-3.650	0.000

CH 195.929 L.O.W.



DATUM RL18.000				
	0.05	1.50	2.95	7.00
DESIGN SURFACE	19.820	19.820	19.545	19.537
BEW SURFACE	19.820	19.820	19.545	19.537
EXISTING SURFACE	19.332	19.361	19.435	19.511
OFFSET	-8.900	-8.000	-3.650	0.000

CH 217.279

**KAILASH ROAD**

**NOT TO BE USED FOR CONSTRUCTION**

Drawn: R.GUTIERREZ  
 Date: 12/08/22  
 AN: 3401091  
 Designed: P.NICHOLSON  
 Date: 21/07/22  
 AN: 3791013  
 Checked: S.RAJKOVIC  
 Date: 08/09/22  
 AN: 2951054  
 Approved: T.LIAKOPOULOS  
 Date: 30/09/22  
 AN: 889495

**LEGEND**

	ASPHALT		EXISTING SURFACE
	BASE		FINISHED SURFACE
	SUBBASE		BEW SURFACE
	CAPPING/CONSTRUCTION LAYER		
	AG DRAIN		
	CONCRETE		
	TOPSOIL & SEED		
	STRUCTURAL FILL		

Drawing File: C:\2d\_Synergy\delta\delta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_ACO\4-RO\10939XS01.dwg - 75302  
 Date/Time: Fri Sep 30, 2022 - 3:03pm - frankh--

REV	DESCRIPTION	DATE	AMEND	APPD
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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Scale @ A1/A3  
 H: 0m 1m 2m 4m 6m  
 V: 0m 0.5m 1m 2m 3m  
 H1:100/200 V1:50/100

**RIVERWALK**  
 STAGE 39  
 GEELONG ROAD, WERRIBEE  
 WYNDHAM CITY COUNCIL  
 CROSS SECTIONS  
 SHEET 02 OF 07  
 Drawing No. 10939XS02  
 Sheet No. 15 of 29

Rev 0



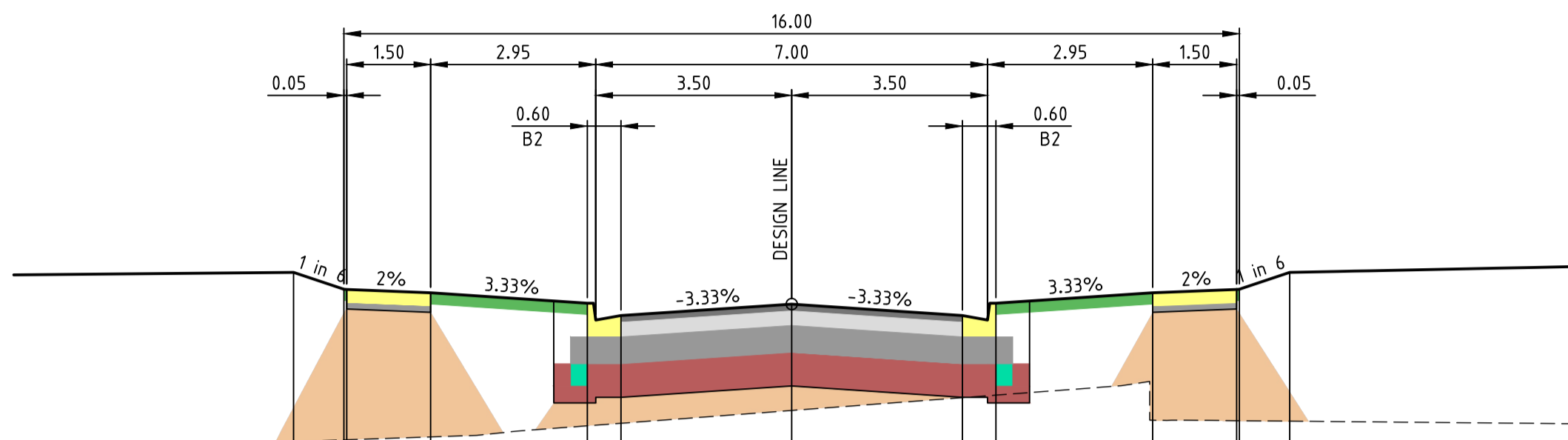
**PRELIMINARY**



**NOTE: TYPE A STRUCTURAL FILL**  
 TYPE A STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 204.041 OF THE VICROADS SPECIFICATION SECTION 204 FOR EARTHWORKS AND SHALL BE FREE OF TOPSOIL, DELETERIOUS MATERIAL AND PERISHABLE MATTER. ALL FILL AREAS MUST ENSURE LEVEL 1 SUPERVISION IS MAINTAINED PER AS3798-2007

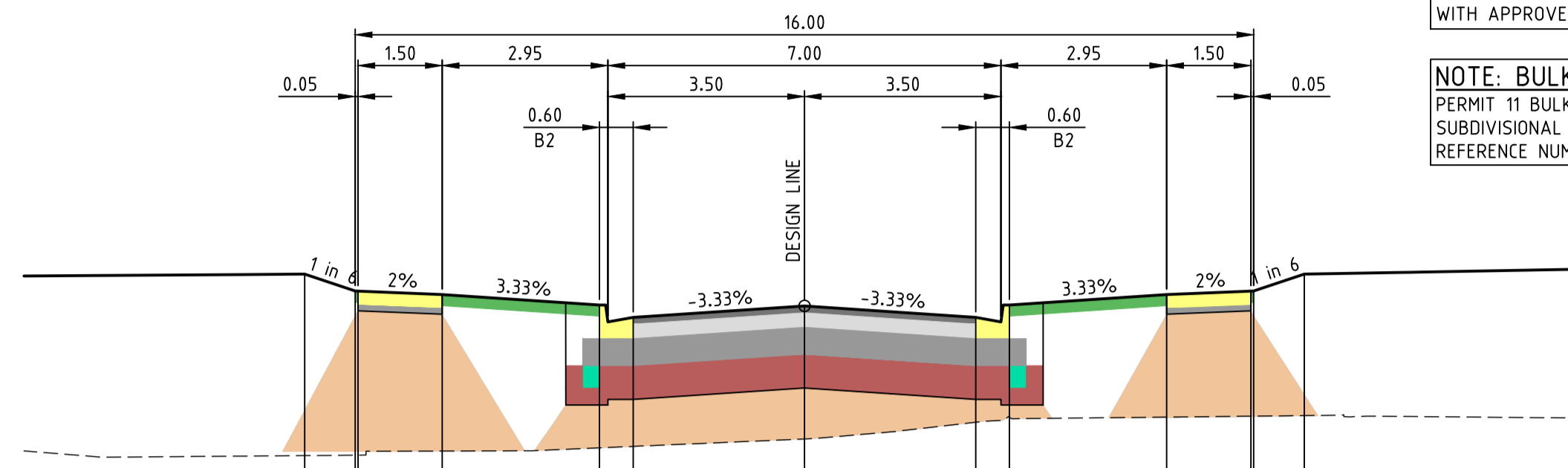
**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)



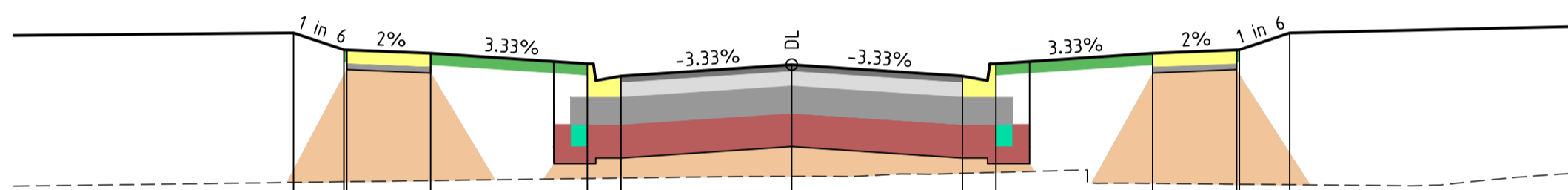
DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

CH 305.929



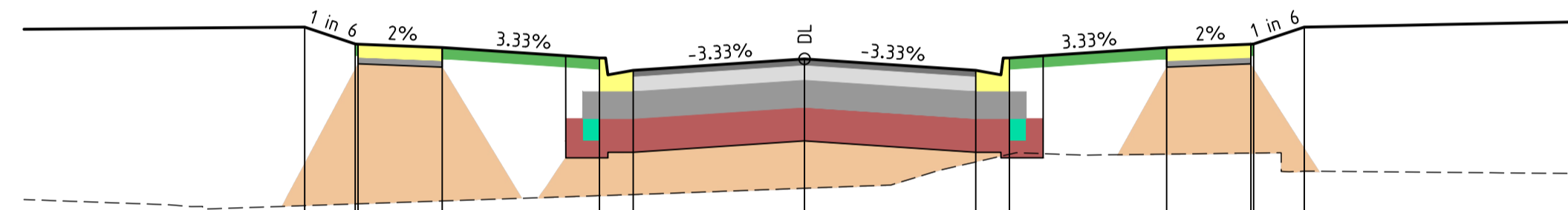
DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

CH 351.929



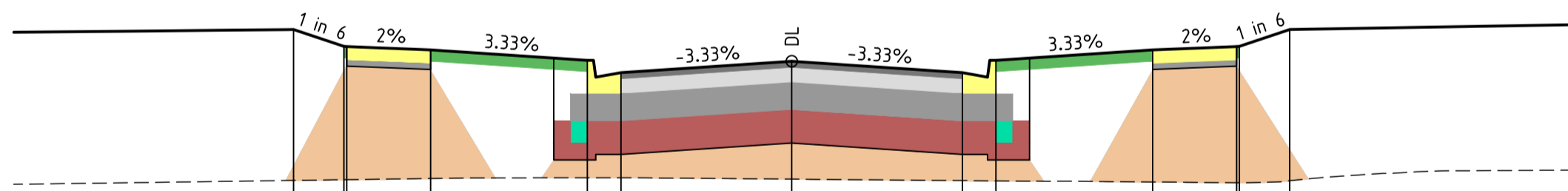
DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

CH 289.929



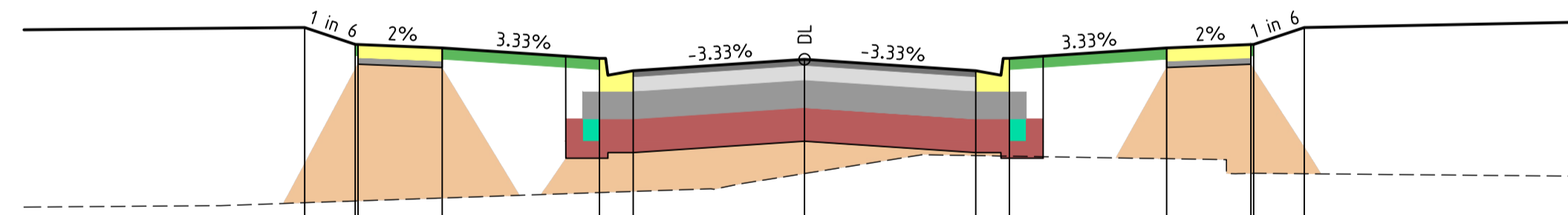
DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

CH 335.929



DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

CH 275.929



DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

CH 321.929

**KAILASH ROAD**

**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495

**LEGEND**

ASPHALT	---	EXISTING SURFACE
BASE	---	FINISHED SURFACE
SUBBASE	---	BEW SURFACE
CAPPING/CONSTRUCTION LAYER	---	
AG DRAIN	---	
CONCRETE	---	
TOPSOIL & SEED	---	
STRUCTURAL FILL	---	

Drawing File: C:\2d\_Synergy\delta\delta\ENERGY-MEL\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_ACOU\4-RO\10939XS01.dwg - 75303  
 Date/Time: Fri Sep 30, 2022 - 3:03pm - frankh--

REV	DESCRIPTION	DATE	PN/NR	AMEND	APPD	TL
0	CONSTRUCTION ISSUE	30/09/22				

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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Scale @ A1/A3  
 H: 0m 1m 2m 4m 6m  
 V: 0m 0.5m 1m 2m 3m  
 H1:100/200 V1:50/100

**RIVERWALK**  
 STAGE 39  
 GEELONG ROAD, WERRIBEE  
 WYNDHAM CITY COUNCIL  
 CROSS SECTIONS  
 SHEET 03 OF 07  
 Drawing No. 10939XS03  
 Sheet No. 16 of 29

Rev 0

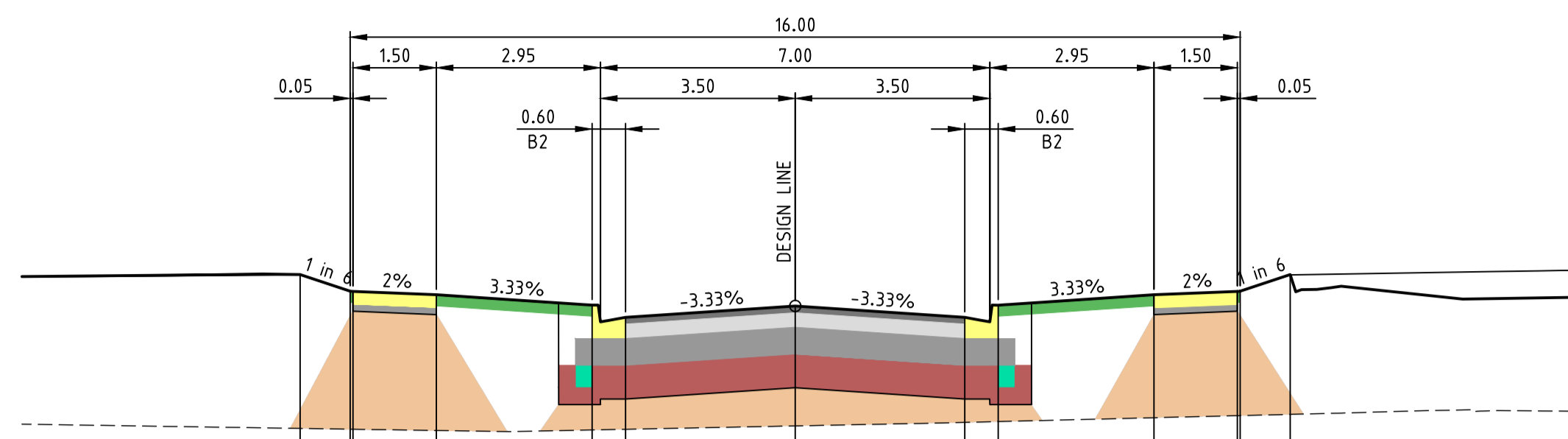
**DALTON CONSULTING ENGINEERS**  
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 melbourne wurundjeri  
 geelong wadawurrung  
 brisbane turrbal  
 dceng.com.au  
 T +61 3 9813 7400  
 T +61 3 5246 1700  
 T +61 7 3374 9000  
 E info@dceng.com.au

**PRELIMINARY**

**NOTE: TYPE A STRUCTURAL FILL**  
 TYPE A STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 204.041 OF THE VICROADS SPECIFICATION SECTION 204 FOR EARTHWORKS AND SHALL BE FREE OF TOPSOIL, DELETERIOUS MATERIAL AND PERISHABLE MATTER. ALL FILL AREAS MUST ENSURE LEVEL 1 SUPERVISION IS MAINTAINED PER AS3798-2007

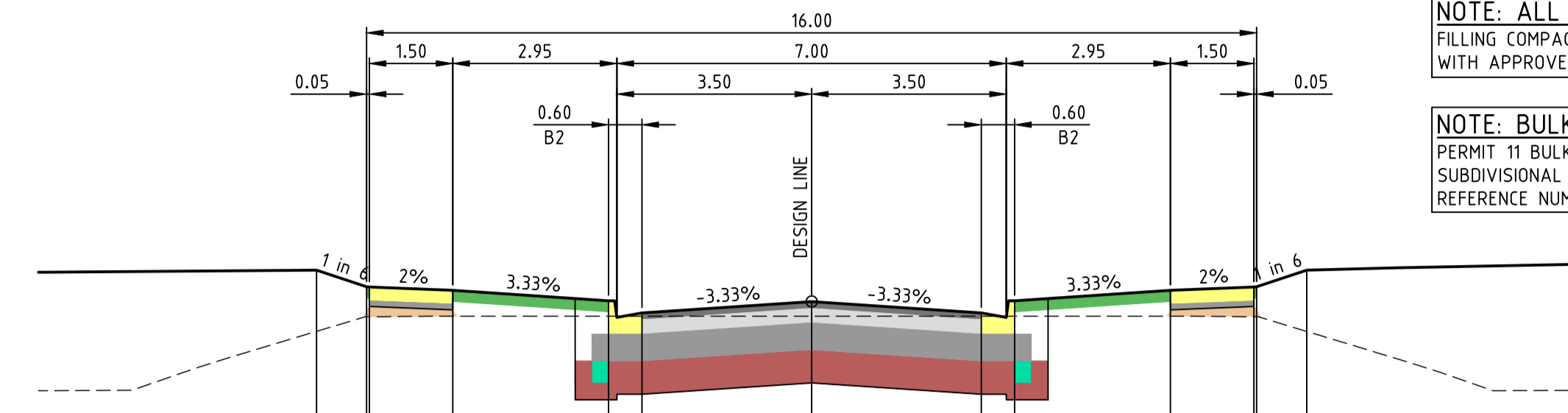
**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)



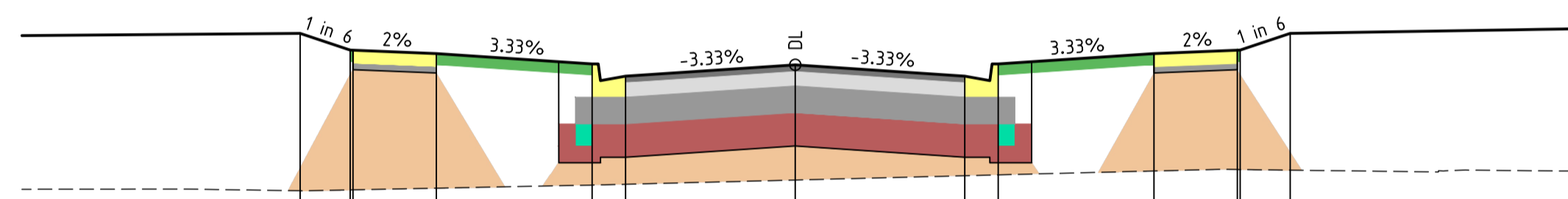
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DESIGN SURFACE										
BEW SURFACE										
EXISTING SURFACE										
OFFSET										

CH 388.478 L.O.W.



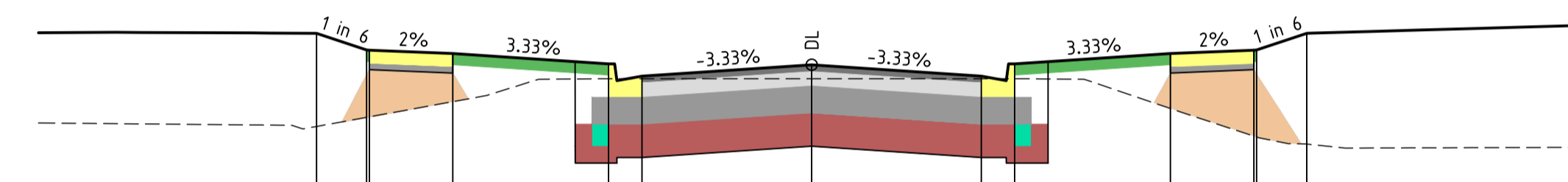
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DESIGN SURFACE										
BEW SURFACE										
EXISTING SURFACE										
OFFSET										

CH 53.098



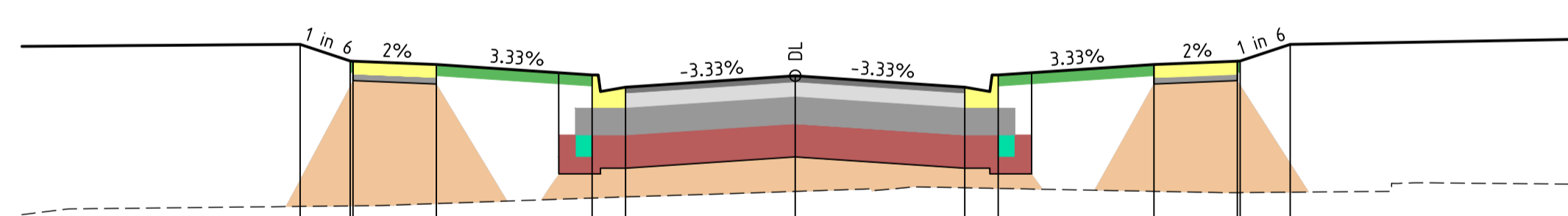
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DESIGN SURFACE										
BEW SURFACE										
EXISTING SURFACE										
OFFSET										

CH 380.000



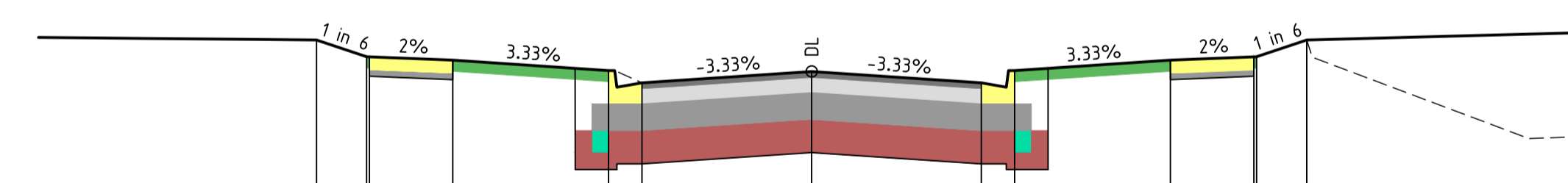
DATUM RL18.000										
DESIGN SURFACE										
BEW SURFACE										
EXISTING SURFACE										
OFFSET										

CH 49.000



DATUM RL18.000										
DESIGN SURFACE										
BEW SURFACE										
EXISTING SURFACE										
OFFSET										

CH 367.929



DATUM RL18.000										
DESIGN SURFACE										
BEW SURFACE										
EXISTING SURFACE										
OFFSET										

CH 44.000 L.O.W.

**KAILASH ROAD**

**AVIATOR STREET**

**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495

**LEGEND**

- ASPHALT
- BASE
- SUBBASE
- CAPPING/CONSTRUCTION LAYER
- AG DRAIN
- CONCRETE
- TOPSOIL & SEED
- STRUCTURAL FILL
- EXISTING SURFACE
- FINISHED SURFACE
- BEW SURFACE



**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**CROSS SECTIONS**  
**SHEET 04 OF 07**  
**Drawing No. 10939XS04**  
 Sheet No. 17 of 29

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 T +61 3 5246 1700  
 T +61 7 3374 9000  
 E info@dceng.com.au

**PRELIMINARY**

Drawing File: C:\2d\_Synergy\kailash\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3 Design\1\_A040\4-RO\10939XS04.dwg - 7534  
 Date/Time: Fri Sep 30, 2022 - 3:03pm - franklin

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.  
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**NOTE: TYPE A STRUCTURAL FILL**  
 TYPE A STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 204.041 OF THE VICROADS SPECIFICATION SECTION 204 FOR EARTHWORKS AND SHALL BE FREE OF TOPSOIL, DELETERIOUS MATERIAL AND PERISHABLE MATTER. ALL FILL AREAS MUST ENSURE LEVEL 1 SUPERVISION IS MAINTAINED PER AS3798-2007

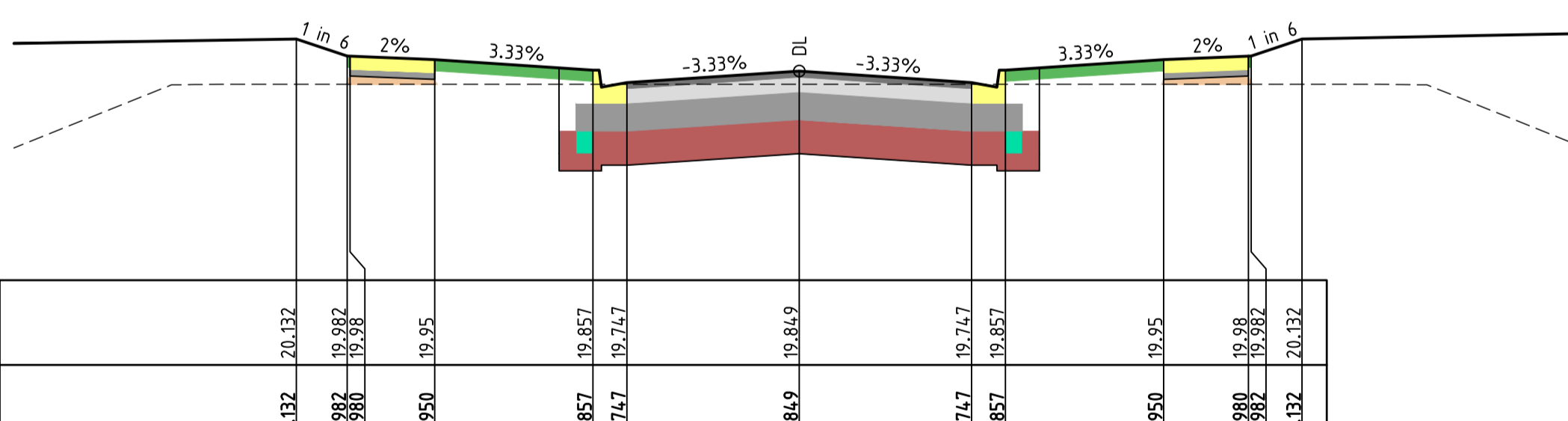
**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)



DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

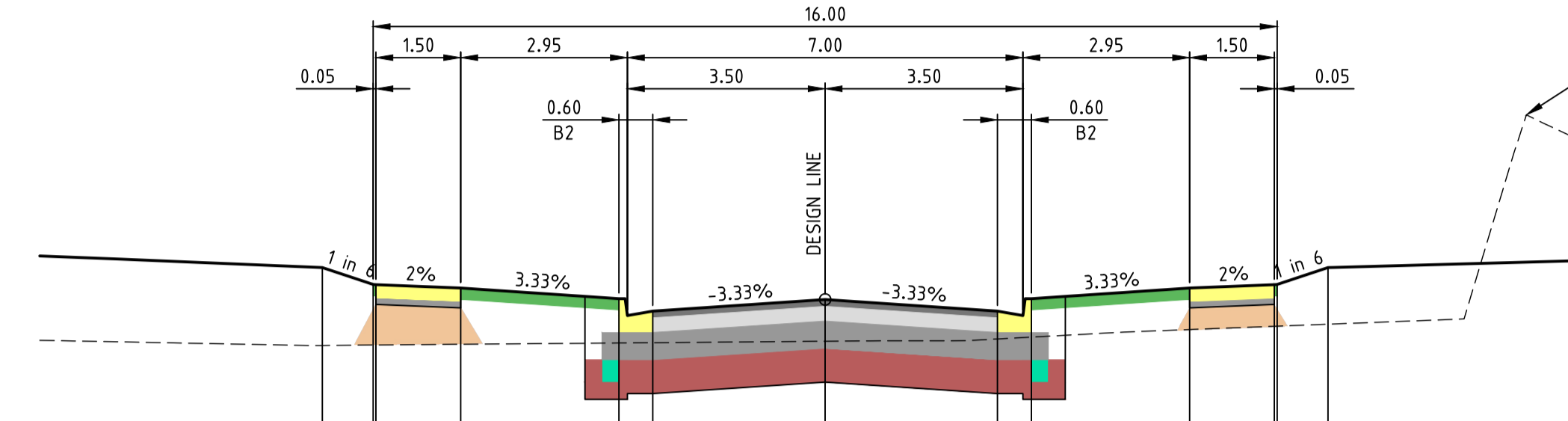
CH 68.350



DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

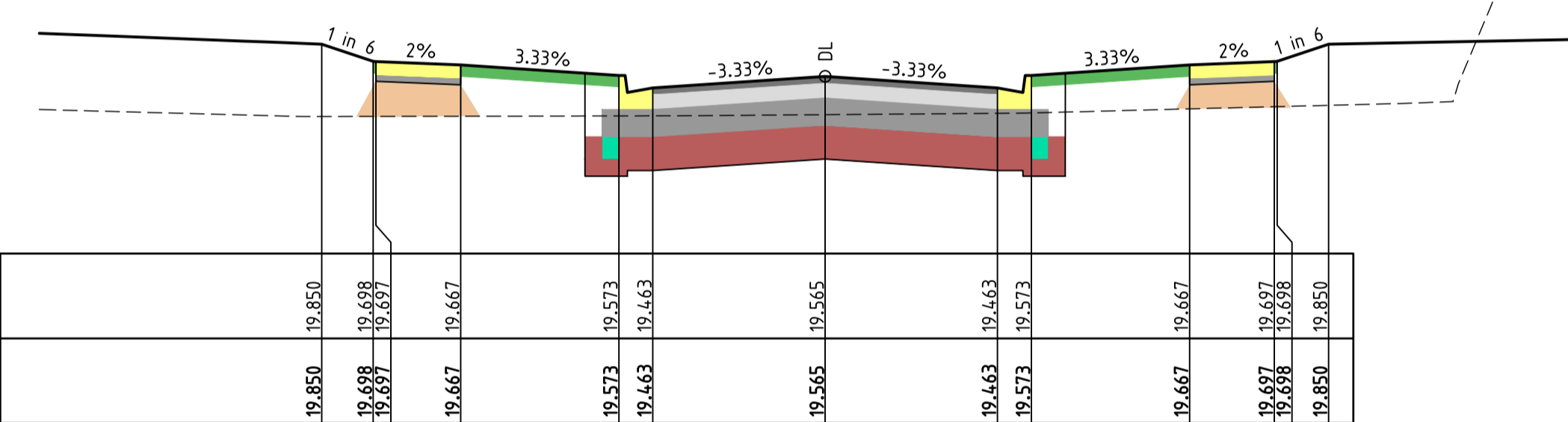
CH 59.500

AVIATOR STREET



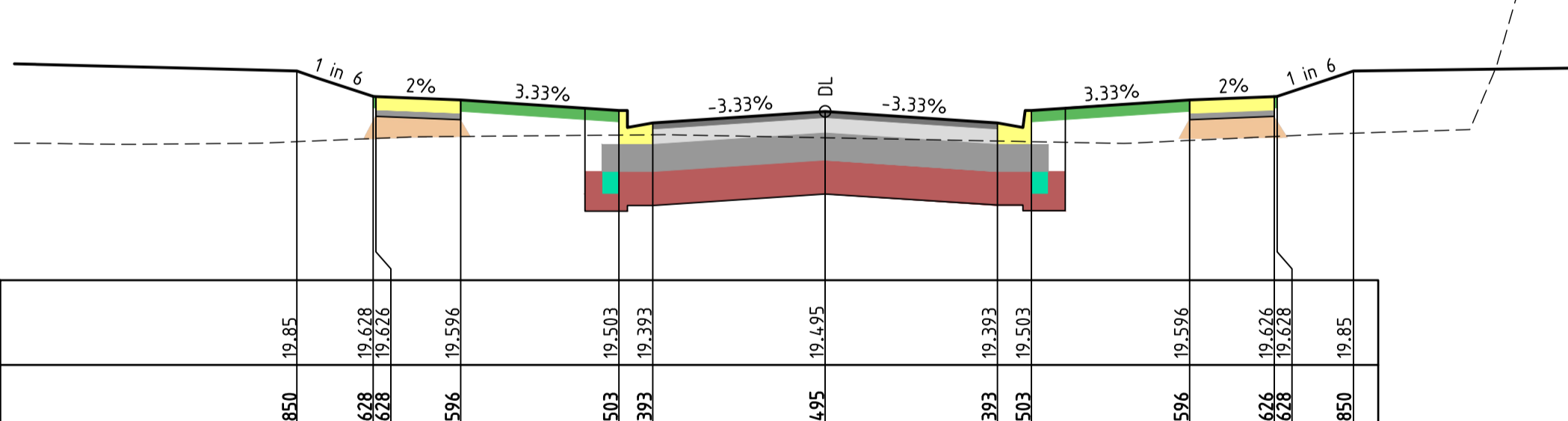
DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

CH 43.457



DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

CH 30.957



DATUM RL18.000				
DESIGN SURFACE				
BEW SURFACE				
EXISTING SURFACE				
OFFSET				

CH 17.534

BOOMERANG STREET

EXISTING STOCKPILE TO BE REMOVED AS PART OF BEW PACKAGE. (REFER TO DCE JOB NUMBER 10870)

EXISTING STOCKPILE TO BE REMOVED AS PART OF BEW PACKAGE. (REFER TO DCE JOB NUMBER 10870)

EXISTING STOCKPILE TO BE REMOVED AS PART OF BEW PACKAGE. (REFER TO DCE JOB NUMBER 10870)

Drawing File: C:\124\_Synergy\delta\delta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_ACO\4-RO\10939XS01.dwg - 7305  
 Date/Time: Fri Sep 30, 2022 - 3:03pm - frankh--

**NOT TO BE USED FOR CONSTRUCTION**

Drawn: R.GUTIERREZ  
 Date: 12/08/22  
 AN: 3401091  
 Designed: P.NICHOLSON  
 Date: 21/07/22  
 AN: 3791013  
 Checked: S.RAJKOVIC  
 Date: 08/09/22  
 AN: 2951054  
 Approved: T.LIAKOPOULOS  
 Date: 30/09/22  
 AN: 889495

**LEGEND**

- ASPHALT
- BASE
- SUBBASE
- CAPPING/CONSTRUCTION LAYER
- AG DRAIN
- CONCRETE
- TOPSOIL & SEED
- STRUCTURAL FILL
- EXISTING SURFACE
- FINISHED SURFACE
- BEW SURFACE

REV	DESCRIPTION	DATE	AMEND	APPD
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL



**RIVERWALK**  
 STAGE 39  
 GEELONG ROAD, WERRIBEE  
 WYNDHAM CITY COUNCIL  
 CROSS SECTIONS  
 SHEET 05 OF 07  
 Drawing No. 10939XS05  
 Sheet No. 18 of 29

**DALTON CONSULTING ENGINEERS**  
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 T +61 3 5246 1700  
 T +61 7 3374 9000  
 E info@dceng.com.au

**PRELIMINARY**

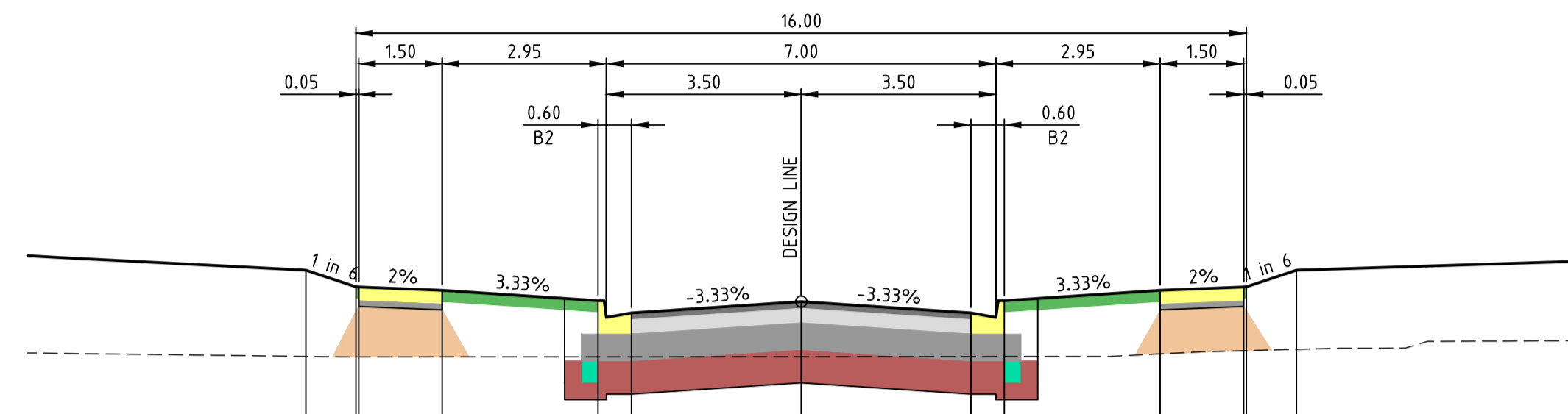
Rev 0

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.  
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**NOTE: TYPE A STRUCTURAL FILL**  
 TYPE A STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 204.041 OF THE VICROADS SPECIFICATION SECTION 204 FOR EARTHWORKS AND SHALL BE FREE OF TOPSOIL, DELETERIOUS MATERIAL AND PERISHABLE MATTER. ALL FILL AREAS MUST ENSURE LEVEL 1 SUPERVISION IS MAINTAINED PER AS3798-2007

**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)

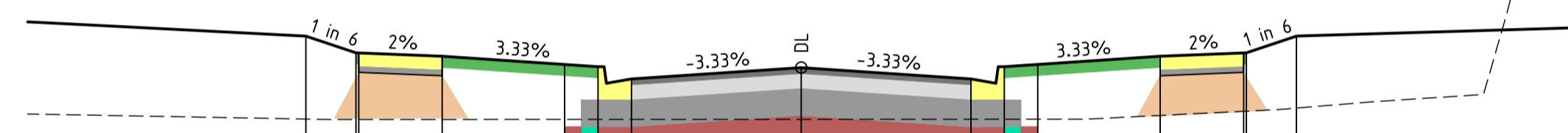


DATUM RL18.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
20.079	20.079	19.303	-8.900
19.922	19.922	19.299	-8.050
19.928	19.928	19.299	-7.950
19.898	19.898	19.299	-6.450
19.804	19.804	19.3	-3.650
19.694	19.694	19.3	-3.050
19.796	19.796	19.301	0.000
19.694	19.694	19.302	3.050
19.804	19.804	19.303	3.650
19.898	19.898	19.326	6.450
19.928	19.928	19.354	7.950
19.929	19.929	19.355	8.000
20.079	20.079	19.367	8.900

CH 74.957

EXISTING STOCKPILE TO BE REMOVED AS PART OF BEW PACKAGE. (REFER TO DCE JOB NUMBER 10870)

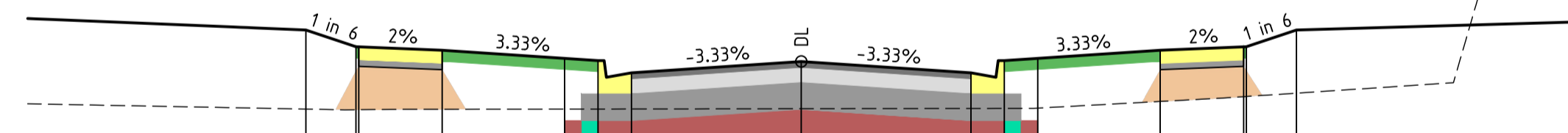


DATUM RL18.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
20.024	20.024	19.278	-8.900
19.874	19.874	19.274	-8.050
19.872	19.872	19.274	-7.950
19.842	19.842	19.274	-6.450
19.749	19.749	19.274	-3.650
19.639	19.639	19.274	-3.050
19.741	19.741	19.275	0.000
19.639	19.639	19.276	3.050
19.749	19.749	19.277	3.650
19.842	19.842	19.31	6.450
19.872	19.872	19.348	7.950
19.874	19.874	19.349	8.000
20.024	20.024	19.376	8.900

CH 64.457

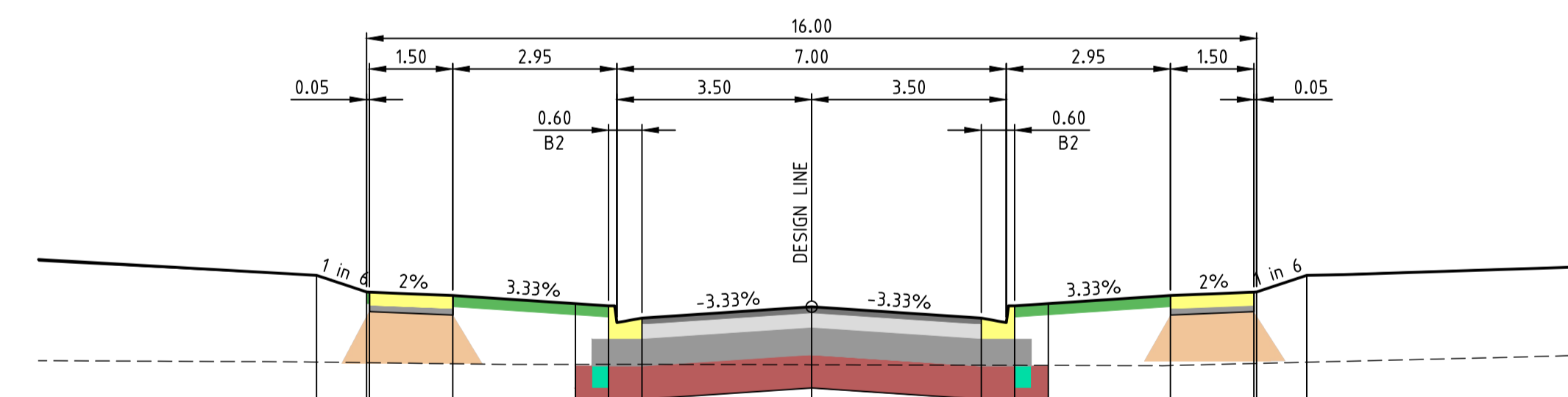
EXISTING STOCKPILE TO BE REMOVED AS PART OF BEW PACKAGE. (REFER TO DCE JOB NUMBER 10870)



DATUM RL18.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
19.969	19.969	19.258	-8.900
19.819	19.819	19.252	-8.000
19.817	19.817	19.252	-7.950
19.787	19.787	19.256	-6.450
19.694	19.694	19.258	-3.650
19.584	19.584	19.259	-3.050
19.686	19.686	19.261	0.000
19.584	19.584	19.263	3.050
19.694	19.694	19.264	3.650
19.787	19.787	19.326	6.450
19.817	19.817	19.369	7.950
19.819	19.819	19.371	8.000
19.969	19.969	19.401	8.900

CH 53.957



DATUM RL18.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
20.137	20.137	19.357	-8.900
19.987	19.987	19.351	-8.000
19.985	19.985	19.351	-7.950
19.955	19.955	19.341	-6.450
19.862	19.862	19.336	-3.650
19.752	19.752	19.336	-3.050
19.853	19.853	19.332	0.000
19.752	19.752	19.328	3.050
19.862	19.862	19.327	3.650
19.955	19.955	19.326	6.450
19.985	19.985	19.344	7.950
19.987	19.987	19.345	8.000
20.137	20.137	19.355	8.900

CH 85.934 L.O.W.

BOOMERANG STREET

**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495

LEGEND

- ASPHALT
- BASE
- SUBBASE
- CAPPING/CONSTRUCTION LAYER
- AG DRAIN
- CONCRETE
- TOPSOIL & SEED
- STRUCTURAL FILL
- EXISTING SURFACE
- FINISHED SURFACE
- BEW SURFACE

Drawing File: C:\2d\_Synergy\delta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3 Design\1\_A040\4-BO\10939XS01.dwg - 75306  
 Date/Time: Fri Sep 30, 2022 - 3:03pm - frankh--

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

REV	DESCRIPTION	DATE	AMEND	APPD
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL



Coords: MGA Levels: AHD  
 H 0m 1m 2m 4m 6m  
 V 0m 0.5m 1m 2m 3m  
 Scale @ A1/A3 H1:100/200 V1:50/100

**RIVERWALK**  
 STAGE 39  
 GEELONG ROAD, WERRIBEE  
 WYNDHAM CITY COUNCIL  
 CROSS SECTIONS  
 SHEET 06 OF 07  
 Drawing No. 10939XS06  
 Sheet No. 19 of 29

**DALTON CONSULTING ENGINEERS**  
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 T +61 3 5246 1700  
 T +61 7 3374 9000  
 E info@dceng.com.au

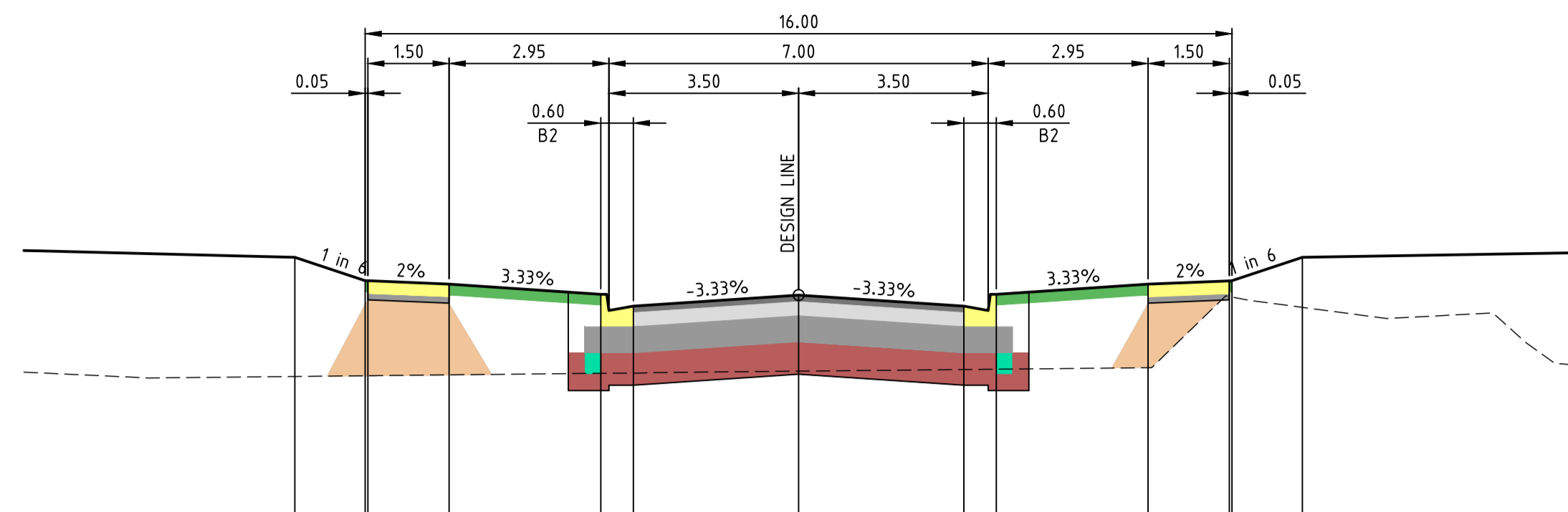
**PRELIMINARY**

Rev 0

**NOTE: TYPE A STRUCTURAL FILL**  
 TYPE A STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 204.041 OF THE VICROADS SPECIFICATION SECTION 204 FOR EARTHWORKS AND SHALL BE FREE OF TOPSOIL, DELETERIOUS MATERIAL AND PERISHABLE MATTER. ALL FILL AREAS MUST ENSURE LEVEL 1 SUPERVISION IS MAINTAINED PER AS3798-2007

**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

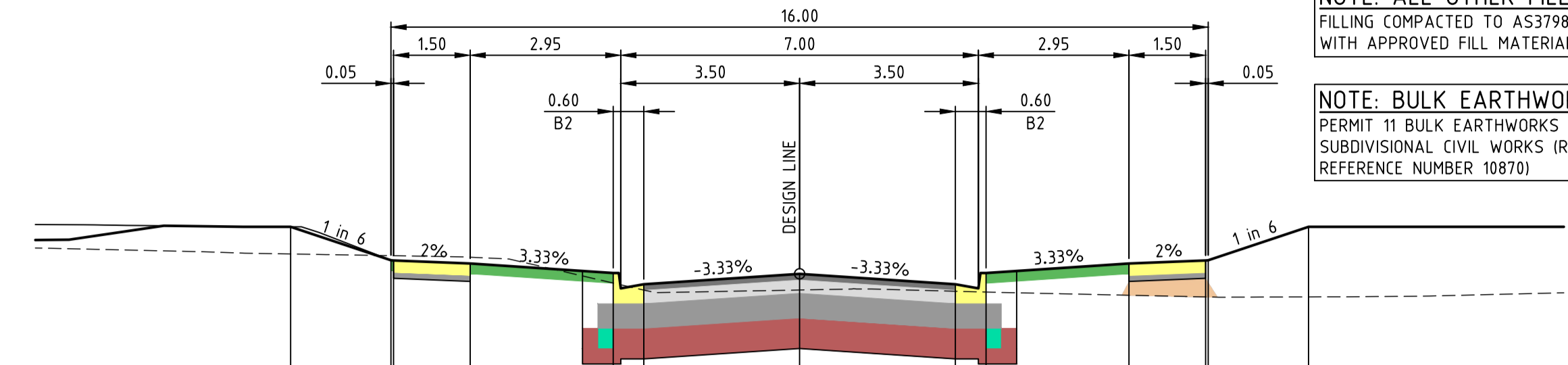
**NOTE: BULK EARTHWORKS (BEW)**  
 PERMIT 11 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)



DATUM RL17.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
19.850	19.850	18.75	-9.298
19.632	19.632	18.75	-8.000
19.632	19.632	18.75	-7.950
19.602	19.602	18.764	-6.450
19.509	19.509	18.779	-3.650
19.399	19.399	18.78	-3.050
19.500	19.500	18.799	0.000
19.399	19.399	18.813	3.050
19.509	19.509	18.816	3.650
19.602	19.602	18.83	6.450
19.632	19.632	19.488	7.950
19.632	19.632	19.483	8.000
19.850	19.850	19.388	9.298

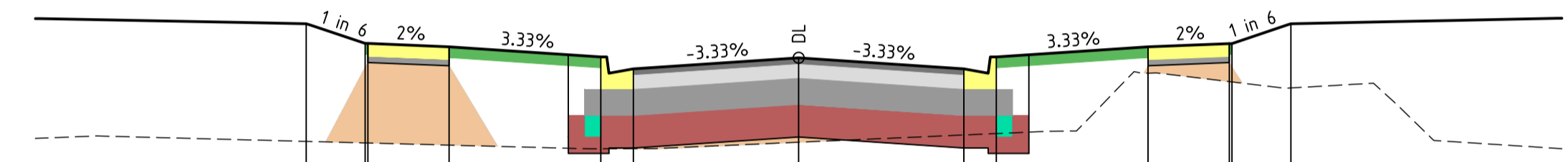
CH 31.000



DATUM RL18.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
19.850	19.850	19.584	-9.965
19.572	19.572	19.568	-8.000
19.572	19.572	19.567	-7.950
19.491	19.491	19.553	-6.450
19.397	19.397	19.3	-3.650
19.287	19.287	19.231	-3.050
19.389	19.389	19.232	0.000
19.287	19.287	19.219	3.050
19.397	19.397	19.211	3.650
19.491	19.491	19.18	6.450
19.572	19.572	19.164	7.950
19.572	19.572	19.163	8.000
19.850	19.850	19.164	9.965

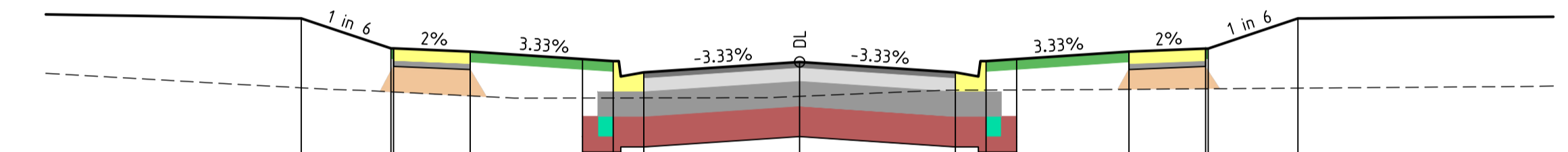
CH 64.350



DATUM RL17.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
19.850	19.850	18.764	-9.086
19.669	19.669	18.75	-8.000
19.669	19.669	18.75	-7.950
19.637	19.637	18.73	-6.450
19.544	19.544	18.696	-3.650
19.434	19.434	18.698	-3.050
19.535	19.535	18.757	0.000
19.434	19.434	18.823	3.050
19.544	19.544	18.837	3.650
19.637	19.637	19.394	6.450
19.667	19.667	19.316	7.950
19.669	19.669	19.313	8.000
19.850	19.850	19.258	9.088

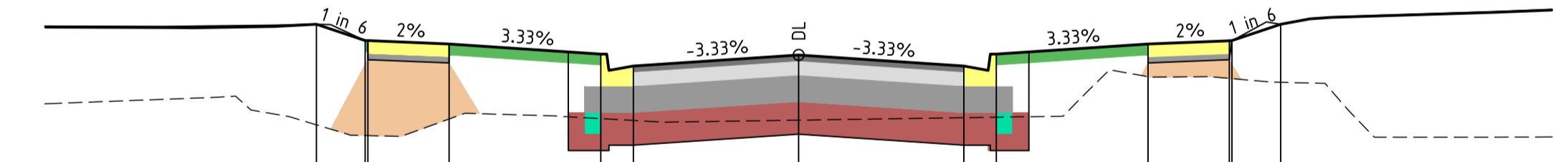
CH 20.500



DATUM RL18.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
19.850	19.850	19.171	-9.758
19.557	19.557	19.131	-8.000
19.555	19.555	19.13	-7.950
19.525	19.525	19.092	-6.450
19.432	19.432	19.072	-3.650
19.322	19.322	19.072	-3.050
19.424	19.424	19.088	0.000
19.322	19.322	19.148	3.050
19.432	19.432	19.149	3.650
19.525	19.525	19.156	6.450
19.555	19.555	19.161	7.950
19.555	19.555	19.162	8.000
19.850	19.850	19.168	9.758

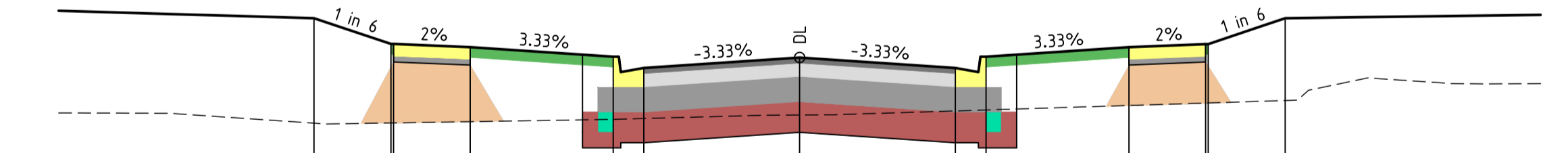
CH 54.000



DATUM RL17.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
19.850	19.850	18.973	-8.900
19.698	19.698	18.827	-8.000
19.698	19.698	18.821	-7.950
19.666	19.666	18.975	-6.450
19.573	19.573	18.978	-3.650
19.463	19.463	18.961	-3.050
19.565	19.565	18.964	0.000
19.463	19.463	18.987	3.050
19.573	19.573	18.991	3.650
19.666	19.666	19.365	6.450
19.696	19.696	19.349	7.950
19.698	19.698	19.347	8.000
19.850	19.850	19.313	8.900

CH 11.650



DATUM RL18.000

DESIGN SURFACE	BEW SURFACE	EXISTING SURFACE	OFFSET
19.850	19.850	18.825	-9.508
19.599	19.599	18.827	-8.000
19.597	19.597	18.827	-7.950
19.567	19.567	18.839	-6.450
19.474	19.474	18.862	-3.650
19.364	19.364	18.87	-3.050
19.465	19.465	18.904	0.000
19.364	19.364	18.944	3.050
19.474	19.474	18.954	3.650
19.567	19.567	18.998	6.450
19.597	19.597	19.021	7.950
19.599	19.599	19.022	8.000
19.850	19.850	19.046	9.508

CH 41.500

**BOMBARDIER STREET**

**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495

**LEGEND**

ASPHALT	EXISTING SURFACE
BASE	FINISHED SURFACE
SUBBASE	BEW SURFACE
CAPPING/CONSTRUCTION LAYER	
AG DRAIN	
CONCRETE	
TOPSOIL & SEED	
STRUCTURAL FILL	

Drawing File: C:\12a\_Synergy\deltaeta\ENERGY-ME\10039-Riverwalk - Stage 39\_2407\3\_Design\1\_ACO\4-RO\10039XS01.dwg - 75307  
 Date/Time: Fri Sep 30, 2022 - 3:04pm - frankh--

REV	DESCRIPTION	DATE	AMEND	APPD
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

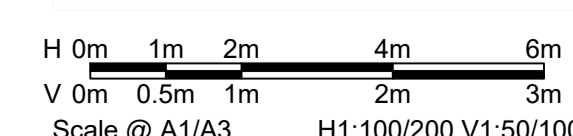
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.  
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**RIVERWALK**  
 STAGE 39  
 GEELONG ROAD, WERRIBEE  
 WYNDHAM CITY COUNCIL  
 CROSS SECTIONS  
 SHEET 07 OF 07  
 Drawing No. 10939XS07  
 Sheet No. 20 of 29

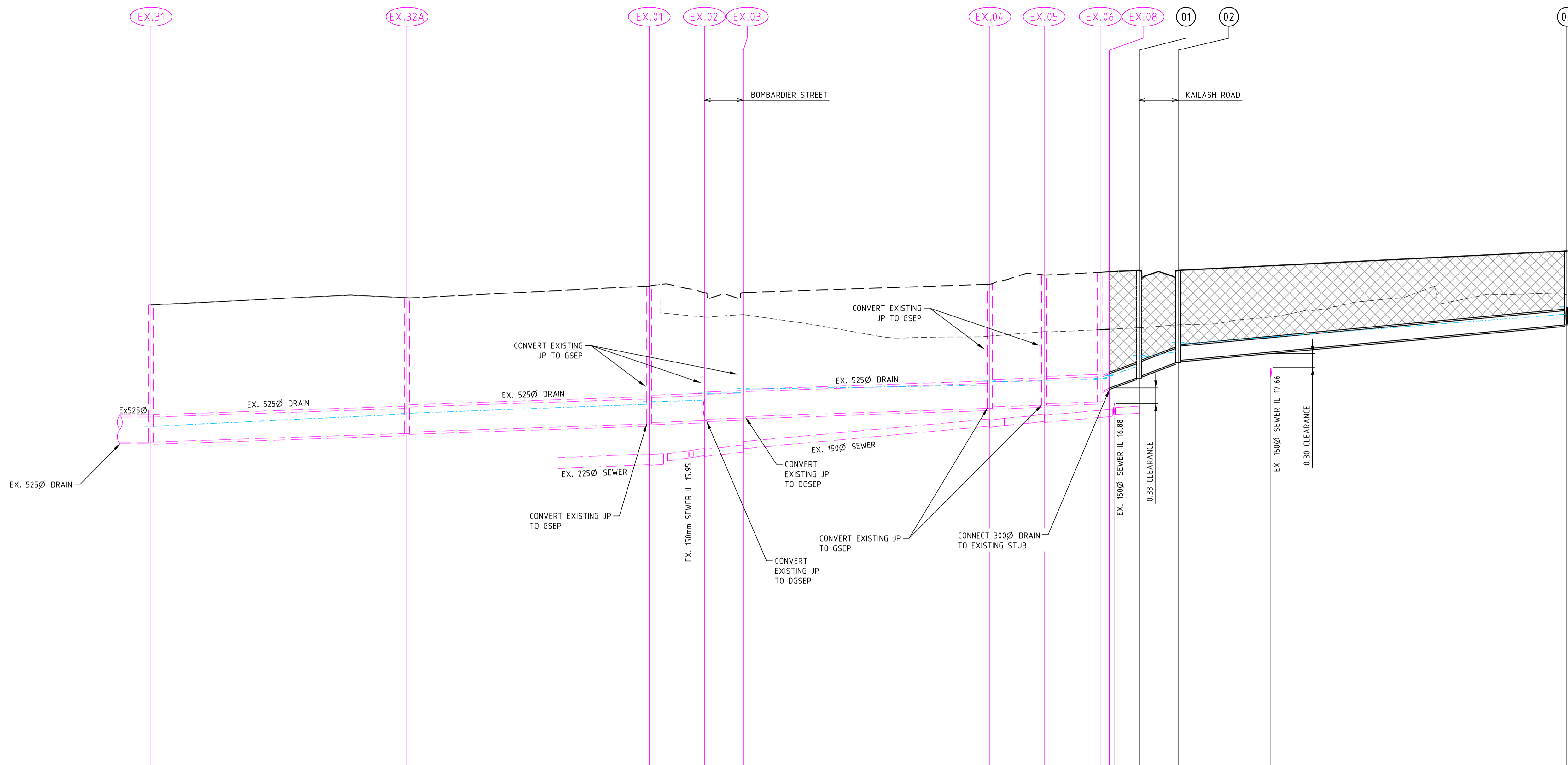
**DALTON CONSULTING ENGINEERS**  
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**PRELIMINARY**



Rev 0

Drawing File: C:\12d\_Synergy\delta\delta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_ACO\4-DR1  
 10939DR01.dwg - DR01  
 Date/Time: Fri Sep 30, 2022 - 3:04pm - frankh--



VELOCITY (m/s)		1.306		1.307		1.304		1.247		1.249		1.225		1.225		2.536		2.537		2.482		1.474	
PIPE GRADE VELOCITY		1.147		1.147		1.147		1.147		1.147		1.147		1.147		2.499		2.499		2.499		1.305	
PIPE GRADE %		0.333%		0.333%		0.333%		0.333%		0.333%		0.333%		0.333%		3.333%		3.333%		3.333%		0.909%	
PIPE FLOW (m <sup>3</sup> /s)		0.237		0.241		0.233		0.178		0.179		0.164		0.164		0.094		0.094		0.086		0.082	
PIPE CAPACITY AT GRADE		0.248		0.248		0.248		0.248		0.248		0.248		0.248		0.177		0.177		0.177		0.092	
PIPE SIZE (mm)		525		525		525		525		525		525		525		300		300		300		300	
DATUM		7.000																				CLASS 3	
DEPTH TO INVERT		16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607
HYDRAULIC GRADE LINE		16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607
INVERT LEVEL		16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607	16.278	16.607
DESIGN SURFACE LEVEL		19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154
EXISTING SURFACE LEVEL		19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154	19.154
CHAINAGE		201.058	53.704	147.353	50.803	96.550	115.64	87.319	88.200	76.797	51.690	25.097	11.392	13.7045	11.752	1.953	0.000	2.520	6.201	8.200	14.401	33.851	81.550

FOR CONTINUATION REFER SHEET 22

**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495  
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- LEGEND**
- EXISTING SURFACE
  - FINISHED SURFACE
  - - - EXISTING DRAIN
  - - - PROPOSED DRAIN
  - HYDRAULIC GRADE LINE
  - ▨ CRUSHED ROCK BACKFILL
  - PROP / EX SERVICES



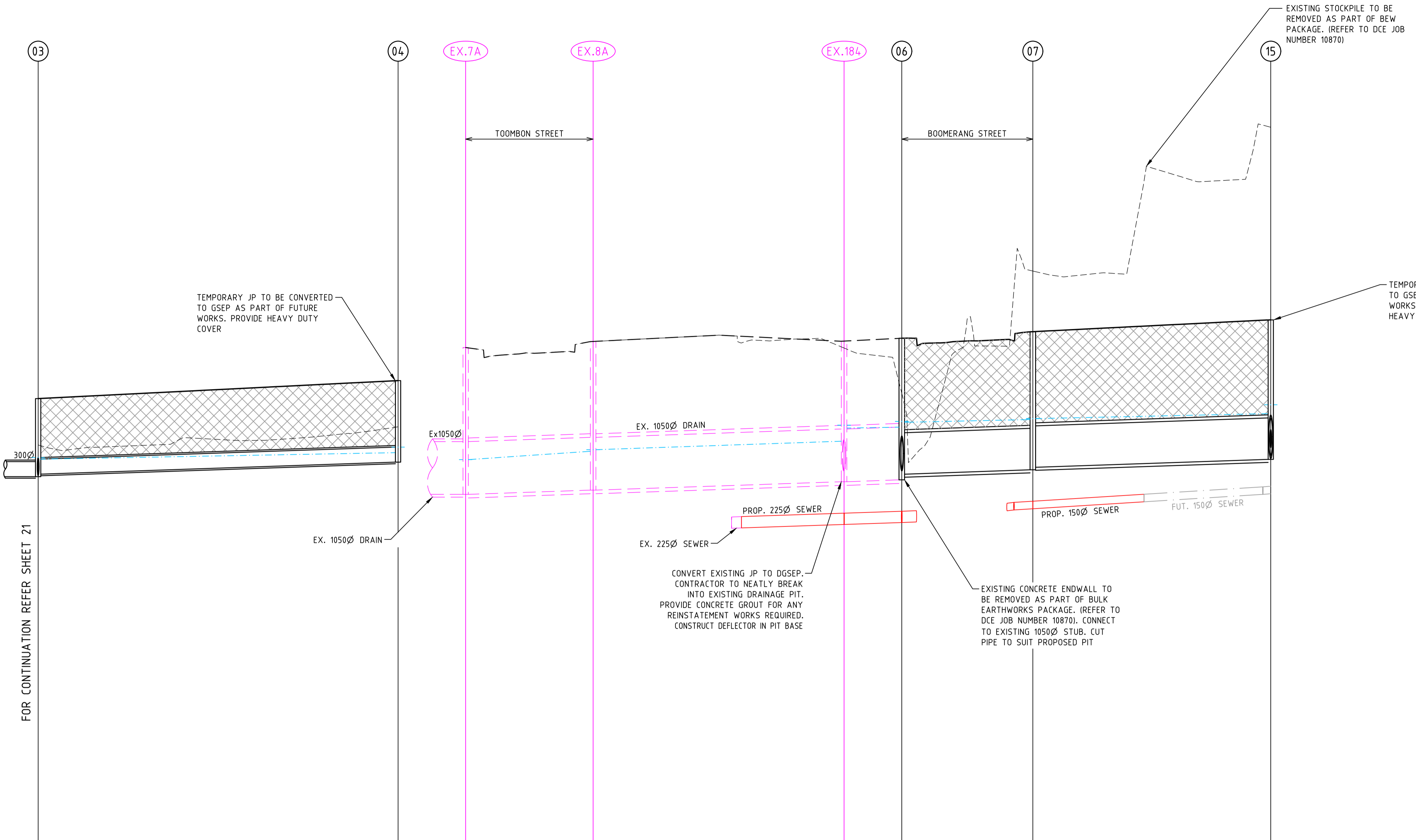
Coords: MGA Levels: AHD  
 H 0m 5m 10m 20m 30m  
 V 0m 0.5m 1m 2m 3m  
 Scale @ A1/A3 H1:500/1000 V1:50/100

**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**DRAINAGE LONGITUDINAL SECTIONS**  
**SHEET 01 OF 05**  
**Drawing No. 10939DR01** Rev 0  
 Sheet No. 21 of 29

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 T +61 3 5246 1700  
 T +61 7 3374 9000  
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**PRELIMINARY**

Drawing File: C:\12d\_Synergy\delta\delta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_ACO\4-RD\10939DR02.dwg - DR02  
 Date/Time: Fri Sep 30, 2022 - 3:04pm - frankh--



VELOCITY (m/s)	0.855		2.066		2.066		1.955		1.722		1.719		
PIPE GRADE VELOCITY	0.790		1.821		1.821		1.822		1.551		1.551		
PIPE GRADE %	0.333%		0.333%		0.333%		0.333%		0.333%		0.333%		
PIPE FLOW (m3/s)	0.039		1.453		1.455		1.065		0.662		0.656		
PIPE CAPACITY AT GRADE	0.056		1.577		1.577		1.577		0.829		0.829		
PIPE SIZE (mm)	300		1050		1050		1050		825		825		
DATUM	9.000		7.000		7.000		7.000		7.000		7.000		
DEPTH TO INVERT	1.554	1.504	1.623	3.277	3.277	2.799	2.799	2.818	2.706	2.749	2.699	2.775	
HYDRAULIC GRADE LINE	18.957	19.113	19.210	17.072	17.238	17.438	17.756	17.718	17.833	17.870	17.889	17.987	
INVERT LEVEL	18.733	18.783	19.022	16.381	16.465	16.631	16.631	16.670	16.782	16.869	16.919	17.077	
DESIGN SURFACE LEVEL	20.287	20.287	20.645	19.303	19.424	19.430	19.430	19.488	19.518	19.518	19.518	19.572	
EXISTING SURFACE LEVEL	19.364	19.364	19.725	19.658	19.424	19.293	19.293	18.391	20.825	20.825	20.825	23.686	
CHAINAGE	95.951	71.614	167.565	-86.785	25.365	-61.420	49.937	-11.483	11.483	0.000	26.070	26.070	47.346

**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495  
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**LEGEND**

	EXISTING SURFACE
	FINISHED SURFACE
	EXISTING DRAIN
	PROPOSED DRAIN
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL
	PROP / EX SERVICES

REV	DESCRIPTION	DATE	AMEND	APP'D
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL



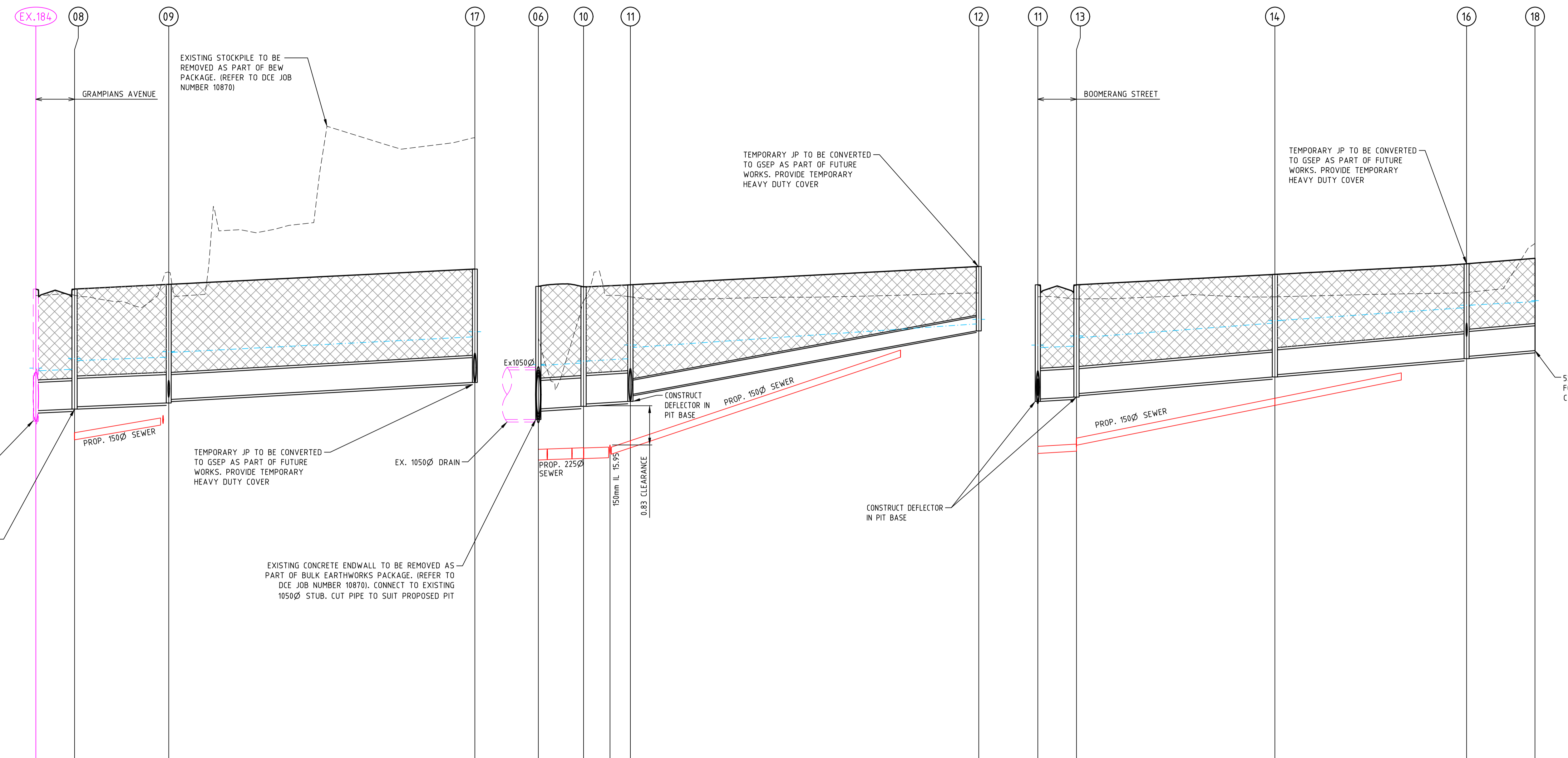
Coords: MGA Levels: AHD  
 H 0m 5m 10m 20m 30m  
 V 0m 0.5m 1m 2m 3m  
 Scale @ A1/A3 H1:500/1000 V1:50/100

**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**DRAINAGE LONGITUDINAL SECTIONS**  
**SHEET 02 OF 05**  
**Drawing No. 10939DR02**  
 Sheet No. 22 of 29

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Drawing File: C:\12d\_Synergy\delta\delta\ENERGY-MEL\10939-Riverwalk - Stage 39\_2407\3 Design\1\_ACO\4-RO\10939DR03.dwg - DR03  
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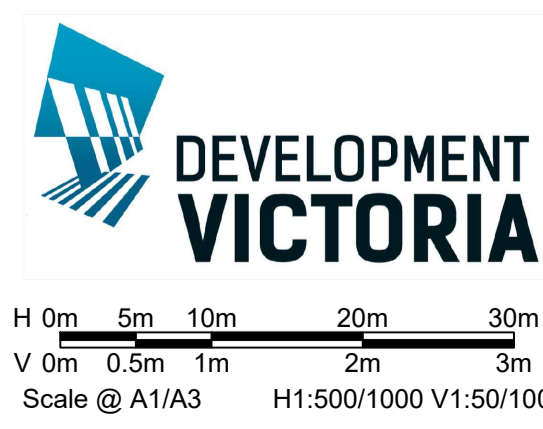


VELOCITY (m/s)	1.565	1.563	1.686	1.841	1.840	1.586	1.731	2.062	2.052	2.012
PIPE GRADE VELOCITY	1.374	1.374	1.481	1.619	1.619	1.845	1.536	1.814	1.814	1.814
PIPE GRADE %	0.400%	0.400%	0.556%	0.556%	0.556%	1.818%	0.500%	0.833%	0.833%	0.833%
PIPE FLOW (m <sup>3</sup> /s)	0.375	0.369	0.306	0.431	0.430	0.307	0.380	0.369	0.352	0.312
PIPE CAPACITY AT GRADE	0.388	0.388	0.321	0.458	0.458	0.130	0.434	0.393	0.393	0.393
PIPE SIZE (mm)	600	600	525	600	600	300	600	525	525	525
DATUM	7.000			7.000		CLASS 4	7.000			CLASS 3
DEPTH TO INVERT	2.799	2.574	2.541	2.818	2.593	1.364	2.468	2.468	2.009	1.953
HYDRAULIC GRADE LINE	17.438	17.756	17.731	17.718	17.834	18.692	17.954	18.245	19.035	19.165
INVERT LEVEL	16.631	16.856	16.889	16.895	16.834	18.545	17.053	18.245	17.569	18.228
DESIGN SURFACE LEVEL	19.430	19.431	19.431	19.488	19.488	19.909	19.521	19.521	19.742	19.966
EXISTING SURFACE LEVEL	19.293	19.299	19.288	18.391	18.391	19.346	19.266	19.221	19.266	19.356
CHAINAGE	0.000	8.200	19.950	28.150	34.150	73.800	0.000	8.198	42.022	90.830

**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
 AN 3791013  
 Checked S.RAJKOVIC  
 Date 08/09/22  
 AN 2951054  
 Approved T.LIAKOPOULOS  
 Date 30/09/22  
 AN 889495  
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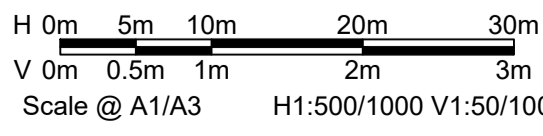
- LEGEND**
- EXISTING SURFACE
  - FINISHED SURFACE
  - EXISTING DRAIN
  - PROPOSED DRAIN
  - HYDRAULIC GRADE LINE
  - CRUSHED ROCK BACKFILL
  - ○ PROP / EX SERVICES



**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**DRAINAGE LONGITUDINAL SECTIONS**  
**SHEET 03 OF 05**  
**Drawing No. 10939DR03**  
 Sheet No. 23 of 29

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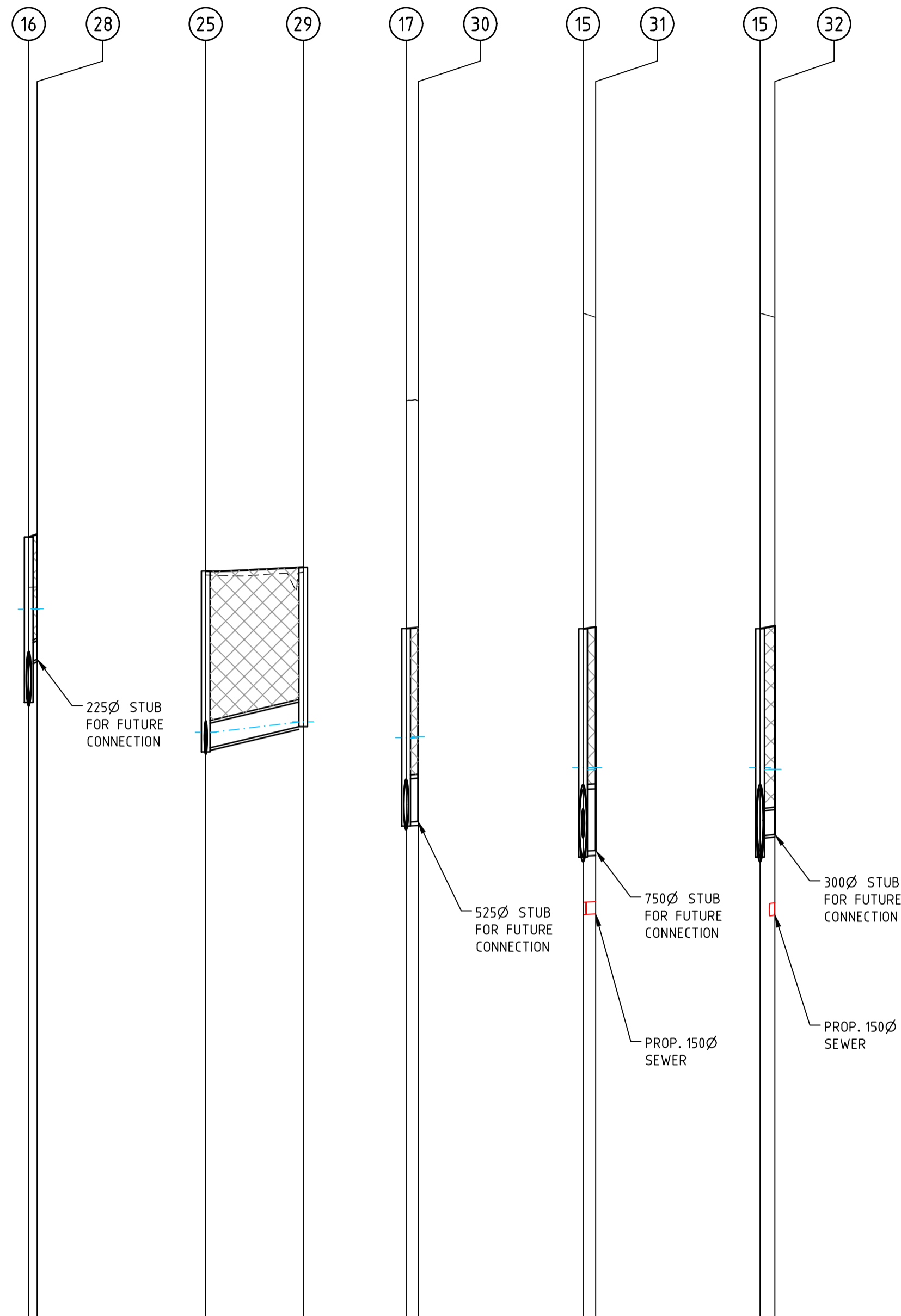


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Drawing File: C:\12d\_Synergy\delta\delta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_ACO\4-DR\10939DR05.dwg - DR05  
 Date/Time: Fri Sep 30, 2022 - 3:04pm - frankh--



	16	17	15	15
VELOCITY (m/s)	1.612	1.573	1.657	1.108
PIPE GRADE VELOCITY	1.786	1.405	1.455	1.249
PIPE GRADE %	2.500%	0.500%	0.333%	0.833%
PIPE FLOW (m <sup>3</sup> /s)	0.024	0.255	0.620	0.028
PIPE CAPACITY AT GRADE	0.071	0.304	0.643	0.088
PIPE SIZE (mm)	225	525	750	300
DATUM	8.000	9.000	9.000	9.000
DEPTH TO INVERT	2.009 1.509 1.517	2.400 2.350 2.355	2.775 2.700 2.717	2.775 2.515 2.535
HYDRAULIC GRADE LINE	19.035 19.089 19.095	18.418 18.518 18.522 18.527 18.541	17.987 18.164 18.140 18.144 18.164	17.987 18.140 18.140 18.141 18.143
INVERT LEVEL	17.598 18.458 18.483	17.504 18.512 17.512	17.077 17.152 17.157	17.339 18.140 17.355
DESIGN SURFACE LEVEL	19.946 20.000	19.855 19.874	19.852 19.874	19.852 19.889
EXISTING SURFACE LEVEL	19.356 19.360	22.639 22.671	23.686 23.636	23.686 23.637
CHAINAGE	0.000 1.017 1.077	0.000 1.457 1.457	0.000 1.526 1.526	0.000 1.803 1.803

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 Date 30/09/22  
 AN 889495

**LEGEND**  
 - - - - - EXISTING SURFACE  
 ——— FINISHED SURFACE  
 - - - - - EXISTING DRAIN  
 ——— PROPOSED DRAIN  
 ——— HYDRAULIC GRADE LINE  
 [Pattern] CRUSHED ROCK BACKFILL  
 [Symbol] PROP / EX SERVICES

REV	DESCRIPTION	DATE	AMEND	APP'D
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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Coords: MGA Levels: AHD  
 H 0m 5m 10m 20m 30m  
 V 0m 0.5m 1m 2m 3m  
 Scale @ A1/A3 H1:500/1000 V1:50/100

**RIVERWALK**  
 STAGE 39  
 GEELONG ROAD, WERRIBEE  
 WYNDHAM CITY COUNCIL  
 DRAINAGE LONGITUDINAL SECTIONS  
 SHEET 05 OF 05  
 Drawing No. 10939DR05  
 Sheet No. 25 of 29

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**PRELIMINARY**

**PIT SCHEDULE**

PIT NAME	PIT TYPE	PIT EASTING	PIT NORTHING	LID WIDTH	LID LENGTH	BASE WIDTH	BASE LENGTH	INLET DIA.	INLET INV LEV	OUTLET DIA.	OUTLET INV LEV	PIT SETOUT RL	PIT DEPTH	PIT DETAIL	HAUNCH DETAIL	STEP IRONS	HEAVY DUTY	FURTHER COMMENTS
EX.01	GSEP	293137.792	5801385.704	600	900	1050	900	525	16.686	525	16.656	19.547	2.891	EDCM 601	EDCM 607	EDCM 609		CONVERT EXISTING JP TO GSEP
EX.02	DGSEP	293146.831	5801392.917	600	900	1050	900	525	16.755	525	16.725	19.414	2.690	EDCM 602	EDCM 607	EDCM 609		CONVERT EXISTING JP TO DGSEP
EX.03	DGSEP	293147.774	5801401.063	600	900	900	900	525	16.812	525	16.782	19.414	2.632	EDCM 602	EDCM 607	EDCM 609		CONVERT EXISTING JP TO DGSEP
EX.04	GSEP	293199.122	5801395.121	600	900	1200	900	525	17.014	525	16.984	19.587	2.602	EDCM 601	EDCM 607	EDCM 609		CONVERT EXISTING JP TO GSEP
EX.05	GSEP	293207.965	5801402.302	600	900	1050	900	525	17.082	525	17.052	19.779	2.727	EDCM 601	EDCM 607	EDCM 609		CONVERT EXISTING JP TO GSEP
EX.06	JP	293209.316	5801413.975	600	900	900	900	300	17.347	525	17.122	19.838	2.717	EDCM 605	EDCM 607	EDCM 609		-
EX.08	EP	293209.422	5801415.926	-	-	-	-	300	17.412	300	17.412	19.852	2.440	-	-	-		CONNECT TO EX 300mm DRAINAGE STUB
1	GSEP	293210.253	5801422.071	600	900	600	900	300	17.668	300	17.618	19.879	2.261	EDCM 601	-	EDCM 609		-
2	GSEP	293218.399	5801421.127	600	900	600	900	300	17.992	300	17.942	19.879	1.937	EDCM 601	-	EDCM 609		-
3	GSEP	293227.773	5801502.136	600	900	600	900	300	18.783	300	18.733	20.287	1.554	EDCM 601	-	EDCM 609		-
4	JP	293236.005	5801573.276	600	900	600	900	-	-	-	-	20.645	1.623	EDCM 605	-	EDCM 609	YES	TEMPORARY JP TO BE CONVERTED TO GSEP AS PART OF FUTURE WORKS AND PROVIDE HEAVY DUTY COVER
EX.184	DGSEP	293132.463	5801410.983	600	900	1200	900	1050	16.631	1050	16.631	19.430	2.799	EDCM 602	EDCM 607	EDCM 609		CONVERT EXISTING JP TO DGSEP. CONTRACTOR TO NEATLY BREAK INTO EXISTING DRAINAGE PIT. PROVIDE CONCRETE GROUT FOR ANY REINSTATEMENT WORKS REQUIRED. CONSTRUCT DEFLECTOR IN PIT BASE.
6	GSEP	293133.781	5801422.390	600	900	1350	1500	825	16.782	1050	16.670	19.488	2.818	EDCM 601	MW 7251/08/408-409	EDCM 609		EXISTING CONCRETE ENDWALL TO BE REMOVED AS PART OF BULK EARTHWORKS PACKAGE. (REFER TO DCE JOB NUMBER 10870). CONNECT TO EXISTING 1050mm STUB. CUT PIPE TO SUIT PROPOSED PIT PROVIDE PIT WITH HAUNCHING IN ACCORDANCE WITH MW 7251/08/408-409
7	GSEP	293136.780	5801448.287	600	900	1050	900	825	16.919	825	16.869	19.618	2.749	EDCM 601	EDCM 607	EDCM 609		-
15	JP	293142.222	5801495.319	600	900	1200	900	750	17.152	825	17.077	19.852	2.775	EDCM 605	EDCM 607	EDCM 609	YES	TEMPORARY JP TO BE CONVERTED TO GSEP AS PART OF FUTURE WORKS AND PROVIDE HEAVY DUTY COVER
8	DGSEP	293140.615	5801410.096	600	900	900	900	600	16.939	600	16.889	19.431	2.541	EDCM 602	EDCM 607	EDCM 609		CONSTRUCT DEFLECTOR IN PIT BASE
9	GSEP	293142.908	5801429.913	600	900	900	900	525	17.094	600	17.019	19.531	2.511	EDCM 601	EDCM 607	EDCM 609		-
17	JP	293150.363	5801494.333	600	900	900	900	525	17.504	525	17.454	19.855	2.400	EDCM 605	EDCM 607	EDCM 609	YES	TEMPORARY JP TO BE CONVERTED TO GSEP AS PART OF FUTURE WORKS AND PROVIDE HEAVY DUTY COVER
10	GSEP	293128.760	5801430.548	600	900	1050	900	600	16.998	600	16.948	19.479	2.531	EDCM 601	EDCM 607	EDCM 609		-
11	GSEP	293120.214	5801435.578	600	900	900	900	300	17.203	600	17.053	19.521	2.468	EDCM 601	EDCM 607	EDCM 609		CONSTRUCT DEFLECTOR IN PIT BASE
12	JP	293056.605	5801472.999	600	900	600	900	-	-	300	18.545	19.909	1.364	EDCM 605	-	EDCM 609	YES	TEMPORARY JP TO BE CONVERTED TO GSEP AS PART OF FUTURE WORKS AND PROVIDE HEAVY DUTY COVER
13	GSEP	293124.372	5801442.643	600	900	900	900	525	17.219	600	17.144	19.521	2.377	EDCM 601	EDCM 607	EDCM 609		CONSTRUCT DEFLECTOR IN PIT BASE
14	GSEP	293088.159	5801463.961	600	900	900	900	525	17.619	525	17.569	19.742	2.172	EDCM 601	EDCM 607	EDCM 609		-
16	JP	293053.162	5801484.561	600	900	900	900	525	18.008	525	17.958	19.966	2.009	EDCM 605	EDCM 607	EDCM 609	YES	TEMPORARY JP TO BE CONVERTED TO GSEP AS PART OF FUTURE WORKS AND PROVIDE HEAVY DUTY COVER
18	EP	293040.748	5801492.032	-	-	-	-	-	-	525	18.128	20.082	1.953	-	-	-		PROVIDE 525mm DRAINAGE STUB
19	JP	293175.391	5801426.154	600	900	600	900	300	17.873	300	17.823	20.007	2.184	EDCM 605	-	EDCM 609		-
20	JP	293181.367	5801477.796	600	900	600	900	225	18.815	300	18.740	20.274	1.534	EDCM 605	-	EDCM 609		-
21	JP	293186.144	5801518.439	600	900	600	900	225	19.376	225	19.326	20.501	1.175	EDCM 605	-	EDCM 609		-
22	JP	293208.097	5801555.747	600	900	600	900	-	-	225	19.917	20.744	0.827	EDCM 605	-	-		-
EX.09	EP	293148.421	5801392.733	-	-	-	-	300	16.846	300	16.846	19.420	2.574	-	-	-		CONNECT TO EX 300mm DRAINAGE STUB
23	GSEP	293197.990	5801386.998	600	900	600	900	300	17.173	300	17.123	19.586	2.463	EDCM 601	-	EDCM 609		-
24	DGSEP	293205.034	5801376.967	600	900	600	900	300	17.305	300	17.255	19.554	2.299	EDCM 602	-	EDCM 609		-
25	DGSEP	293213.179	5801376.024	600	900	600	900	300	17.410	300	17.360	19.554	2.194	EDCM 602	-	EDCM 609		-
26	GSEP	293215.582	5801396.790	600	900	600	900	300	17.721	300	17.671	19.756	2.085	EDCM 601	-	EDCM 609		-
27	GSEP	293224.615	5801403.949	600	900	600	900	300	18.009	300	18.009	19.811	1.802	EDCM 601	-	EDCM 609		-
5	GSEP	293219.627	5801503.079	600	900	600	900	-	-	300	18.825	20.287	1.462	EDCM 601	-	EDCM 609		-
28	EP	293053.677	5801485.438	-	-	-	-	-	-	225	18.483	20.000	1.517	-	-	-		PROVIDE 225mm DRAINAGE STUB
29	JP	293211.817	5801364.257	600	900	600	900	-	-	300	17.647	19.599	1.952	EDCM 605	-	EDCM 609		-
30	EP	293150.676	5801495.757	-	-	-	-	-	-	525	17.512	19.867	2.355	-	-	-		PROVIDE 525mm DRAINAGE STUB
31	EP	293141.498	5801496.663	-	-	-	-	-	-	750	17.157	19.874	2.717	-	-	-		PROVIDE 750mm DRAINAGE STUB
32	EP	293140.624	5801496.155	-	-	-	-	-	-	300	17.354	19.889	2.535	-	-	-		PROVIDE 300mm DRAINAGE STUB
EX.07	GSEP	293225.555	5801412.095	600	900	600	900	375	17.290	375	17.251	19.811	2.560	EDCM 605	-	EDCM 609		CONVERT EXISTING JP TO GSEP

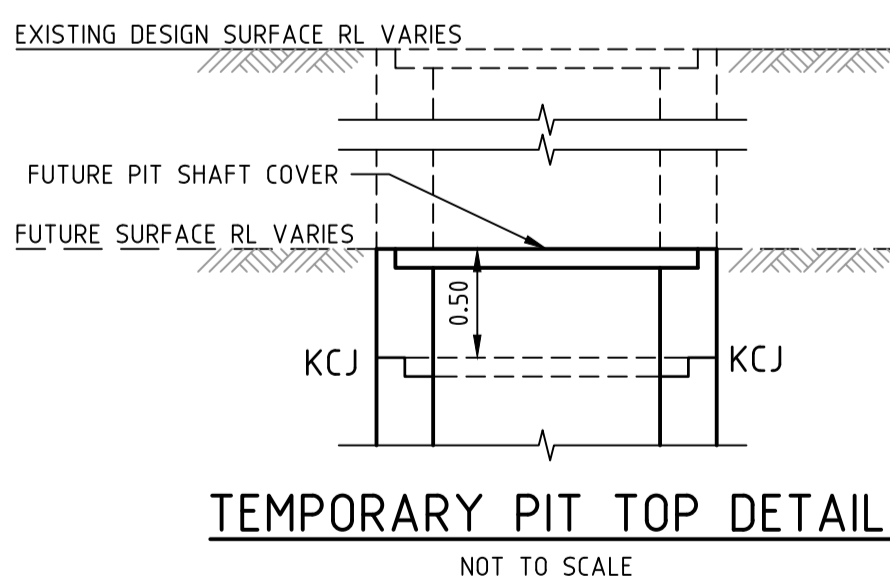
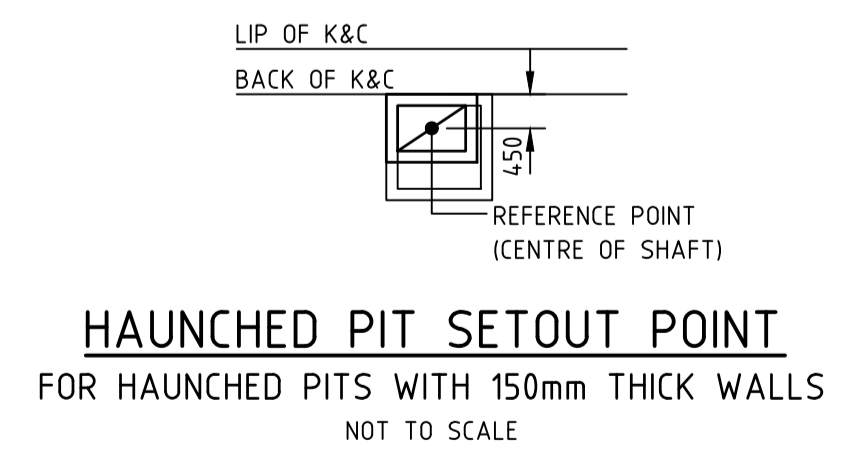
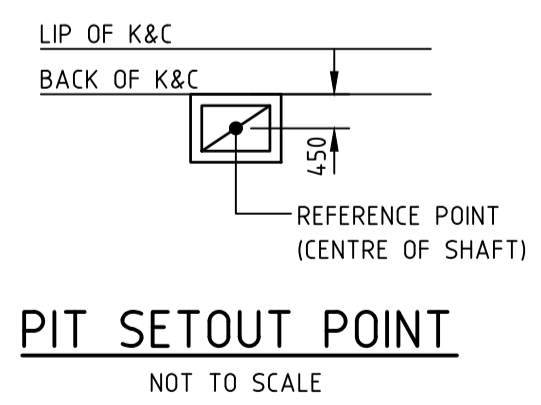
- NOTES: DRAINAGE PITS**
- EASTING, NORTHING SETOUT TO CENTRE OF PIT COVER.
  - SETOUT LEVEL TO PIT COVER LEVEL.
  - EASTING, NORTHING FOR ENDWALL SETOUT POINTS QUOTED TO PIPE INVERT CENTRELINE.
  - ALL PIT COVERS TO BE IN ACCORDANCE WITH COUNCIL AND VPA REQUIREMENTS AND SPECIFICATIONS.
  - ALL TEMPORARY JUNCTION PITS (JP) TO BE PROVIDED WITH KEYED CONSTRUCTION JOINTS (K.C.J.) FOR FUTURE SEP CONVERSION.
  - STEP IRONS REQUIRED FOR ALL PITS GREATER THAN 1000mm IN DEPTH.
  - PIT FLOOR TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROPS LESS THAN 50mm.
  - ALL DRAINAGE WORKS ARE TO BE CONSTRUCTED AND EDM TO VICTORIAN PLANNING AUTHORITY (VPA) SPECIFICATIONS.
  - PIT BASE TO BE SHAPED WITH MASS CONCRETE FOR SMOOTH HYDRAULIC FLOW.
  - ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC UNLESS OTHERWISE SHOWN. ALL PIPES UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED WITH EXTERNAL SEALING BANDS.
  - ALL HAUNCHED PITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VPA REQUIREMENTS AND EDM STD DRAWINGS.

**NOTE: TEMPORARY TOPS**  
ALL PITS TO BE CONSTRUCTED WITH TEMPORARY TOPS, MATCHING TO EXISTING SURFACE FOR FUTURE GSEP/JP CONVERSION.

**NOTE: STUBS**  
ALL STUBS FOR FUTURE EXTENSIONS TO BE SOCKETED UPSTREAM AND BLANKED OFF.

**NOTE: SEDIMENT CONTROL**  
SEDIMENT CONTROL INCLUDING HAY BALES AND SEDIMENT TRAP FENCING IS REQUIRED FOR ALL OPEN EARTH DRAINS IN ACCORDANCE WITH EPA 'CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL'. SEDIMENT CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.

**WARNING!**  
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.



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0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL



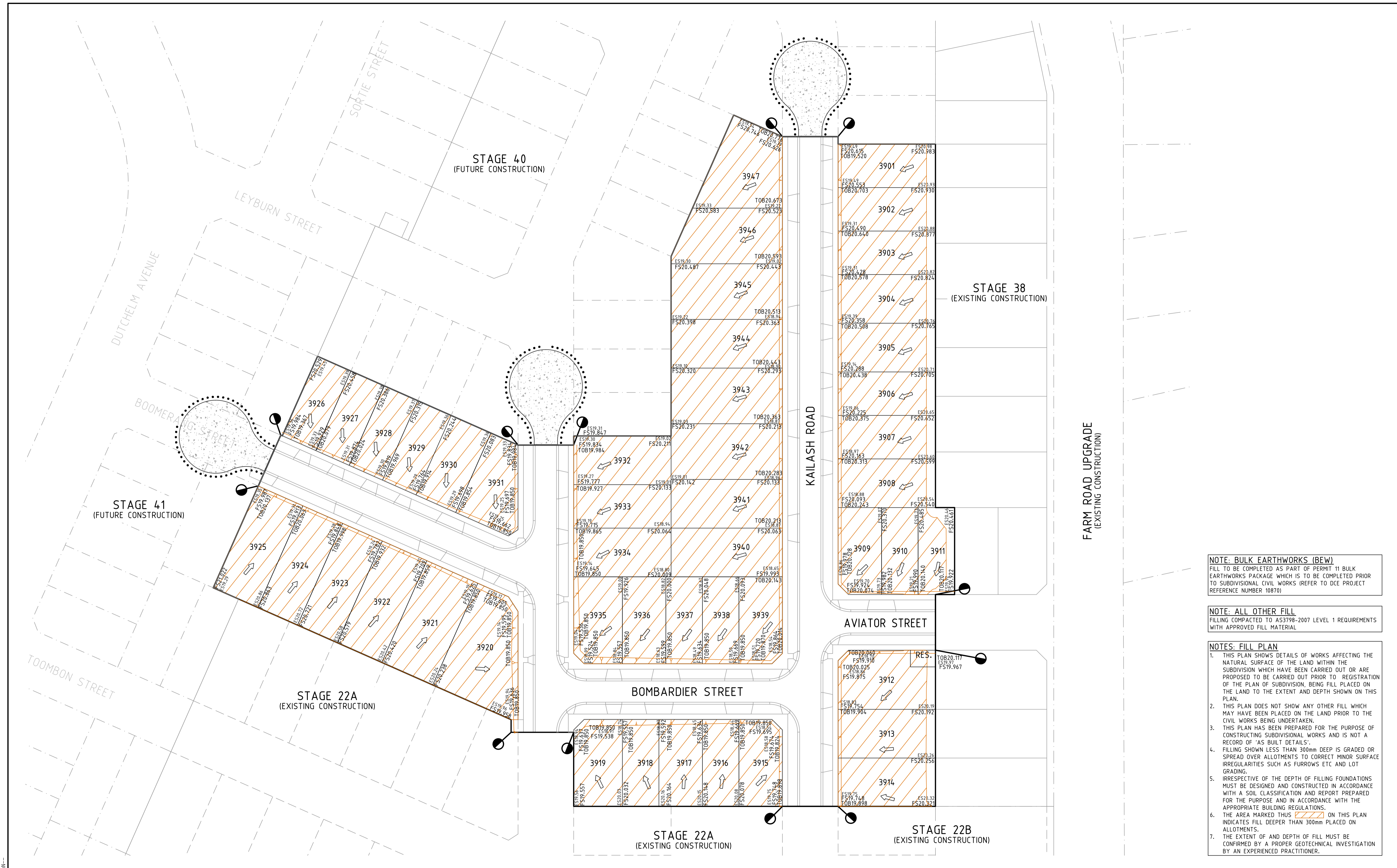
**RIVERWALK**  
STAGE 39  
GEELONG ROAD, WERRIBEE  
WYNDHAM CITY COUNCIL  
PIT SCHEDULE

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Drawing No. 10939PIT01 Rev 0  
Sheet No. 26 of 29

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Drawing File: C:\124\_Synergy\deltaeta\ENERGY-MEL\10939-ffernwork - Stage 39\_2407\3\_Design\1\_A040\4\_B01  
 10939FF01.dwg - PFD1  
 Date/Time: Fri Sep 30, 2022 - 3:04pm - frankh--



**NOTE: BULK EARTHWORKS (BEW)**  
 FILL TO BE COMPLETED AS PART OF PERMIT 11 BULK EARTHWORKS PACKAGE WHICH IS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)

**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

- NOTES: FILL PLAN**
- THIS PLAN SHOWS DETAILS OF WORKS AFFECTING THE NATURAL SURFACE OF THE LAND WITHIN THE SUBDIVISION WHICH HAVE BEEN CARRIED OUT OR ARE PROPOSED TO BE CARRIED OUT PRIOR TO REGISTRATION OF THE PLAN OF SUBDIVISION, BEING FILL PLACED ON THE LAND TO THE EXTENT AND DEPTH SHOWN ON THIS PLAN.
  - THIS PLAN DOES NOT SHOW ANY OTHER FILL WHICH MAY HAVE BEEN PLACED ON THE LAND PRIOR TO THE CIVIL WORKS BEING UNDERTAKEN.
  - THIS PLAN HAS BEEN PREPARED FOR THE PURPOSE OF CONSTRUCTING SUBDIVISIONAL WORKS AND IS NOT A RECORD OF 'AS BUILT DETAILS'.
  - FILLING SHOWN LESS THAN 300mm DEEP IS GRADED OR SPREAD OVER ALLOTMENTS TO CORRECT MINOR SURFACE IRREGULARITIES SUCH AS FURROWS ETC AND LOT GRADING.
  - IRRESPECTIVE OF THE DEPTH OF FILLING FOUNDATIONS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH A SOIL CLASSIFICATION AND REPORT PREPARED FOR THE PURPOSE AND IN ACCORDANCE WITH THE APPROPRIATE BUILDING REGULATIONS.
  - THE AREA MARKED THUS ON THIS PLAN INDICATES FILL DEEPER THAN 300mm PLACED ON ALLOTMENTS.
  - THE EXTENT OF AND DEPTH OF FILL MUST BE CONFIRMED BY A PROPER GEOTECHNICAL INVESTIGATION BY AN EXPERIENCED PRACTITIONER.

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**LEGEND**

- ES20.06 EXISTING SURFACE LEVEL
- FS21.65 FINISHED SURFACE LEVEL
- TOB21.65 TOP OF BATTER
- REGRADE LOT (MIN 1:500)
- LIMIT OF WORKS
- BATTER
- FILLING OVER 300mm

REV	DESCRIPTION	DATE	AMEND	APP'D
0	CONSTRUCTION ISSUE	30/09/22	PN/NR	TL

Coords: MGA Levels: AHD  
  
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DEVELOPMENT VICTORIA  
 Scale @ A1/A3 1:500 / 1:1000

**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**FILL PLAN**  
 Drawing No. 10939FP01 Sheet No. 27 of 29  
 Rev 0

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**PRELIMINARY**

Drawing File: C:\12d\_Synergy\delta\ENERGY-MEL\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_A040\4-RD\10939EW01.dwg - E:\01  
 Date/Time: Fri Sep 30, 2022 - 3:05pm - frankh--



**NOTE: ALL OTHER FILL**  
 FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL

**NOTE: BULK EARTHWORKS (BEW)**  
 BULK EARTHWORKS TO BE COMPLETED PRIOR TO SUBDIVISIONAL CIVIL WORKS (REFER TO DCE PROJECT REFERENCE NUMBER 10870)

**NOTE: EXISTING SURFACE LEVELS**  
 ALL EXISTING SURFACE LEVELS SHOWN ON THIS PLAN ARE BASED ON THE DESIGNED SITE CONDITIONS UPON COMPLETION OF PERMIT 11 BULK EARTHWORKS. (DCE PROJECT REFERENCE NUMBER 10870)

**CUT/FILL VOLUME**

	VOLUME (m <sup>3</sup> )
TOTAL CUT	-3,181
TOTAL FILL	0
BALANCE	-3,181

**NOT TO BE USED FOR CONSTRUCTION**

Drawn: R.GUTIERREZ  
 Date: 12/08/22  
 AN: 3401091  
 Designed: P.NICHOLSON  
 Date: 21/07/22  
 AN: 3791013  
 Checked: S.RAJKOVIC  
 Date: 08/09/22  
 AN: 2951054  
 Approved: T.LIAKOPOULOS  
 Date: 30/09/22  
 AN: 889495

**LEGEND**

	CUT: 0.0m TO 0.2m		FILL: 0.0m TO 0.2m		FILL: 1.6m TO 1.8m
	CUT: 0.2m TO 0.4m		FILL: 0.2m TO 0.4m		FILL: 1.8m TO 2.0m
	CUT: 0.4m TO 0.6m		FILL: 0.4m TO 0.6m		FILL: 2.0m TO 3.0m
	CUT: 0.6m TO 0.8m		FILL: 0.6m TO 0.8m		FILL: 3.0m TO 4.0m
	CUT: 0.8m TO 1.0m		FILL: 0.8m TO 1.0m		FILL: 4.0m TO 5.0m
	CUT: 1.0m TO 1.2m		FILL: 1.0m TO 1.2m		FILL: 5.0m TO 6.0m
	CUT: 1.2m TO 1.4m		FILL: 1.2m TO 1.4m		FILL: 6.0m TO 100.0m
	CUT: 1.4m TO 1.6m		FILL: 1.4m TO 1.6m		
	CUT: 1.6m TO 1.8m				
	CUT: 1.8m TO 2.0m				
	CUT: 2.0m TO 3.0m				
	CUT: 3.0m TO 4.0m				
	CUT: 4.0m TO 5.0m				
	CUT: 5.0m TO 6.0m				
	CUT: 6.0m TO 100.0m				

Coords: MGA Levels: AHD  
  
 www.byda.com.au

Scale @ A1/A3 1:500 / 1:1000

**RIVERWALK**  
**STAGE 39**  
**GEELONG ROAD, WERRIBEE**  
**WYNDHAM CITY COUNCIL**  
**EARTHWORKS PLAN**  
 Drawing No. 10939EW01 Rev 0  
 Sheet No. 28 of 29

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**PRELIMINARY**

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

**SURVEY**  
 SURVEY IS PROVIDED BY CRA SURVEY PTY LTD  
 7A/346 BELMORE ROAD, BALWYN VIC 3103  
 PH.03 9890 0933

**TBM SCHEDULE**

I.D.	TYPE	EASTING	NORTHING	LEVEL
201	RIVET	293313.889	5801608.486	20.32
561	RIVET	293288.158	5801300.688	18.87
910	RIVET	293299.340	5801399.356	20.35
No.1	RIVET	293130.10	5801386.10	19.52
No.2	RIVET	293032.03	5801403.63	19.69

**NOTE: TBM'S**  
 TBM'S NOT SHOWN IN THE TABLE ABOVE ARE OUTSIDE OF THE SCOPE OF THIS DRAWING. REFER TO 109395P01 FOR LOCATION OF TBM'S IN RELATION TO STAGE 39 WORKS.

**CAUTION!**  
 ALL EXISTING SERVICES IN THE VICINITY OF WORKS SHALL BE PROTECTED AND KEPT IN FUNCTIONAL STATE AT ALL TIMES DURING WORKS.

**BEWARE!**  
 NBN OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 1800 687 626.

**BEWARE!**  
 TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 9253 8263.

**BEWARE!**  
 TELSTRA MAJOR CABLES ARE IN THE VICINITY OF WORKS.

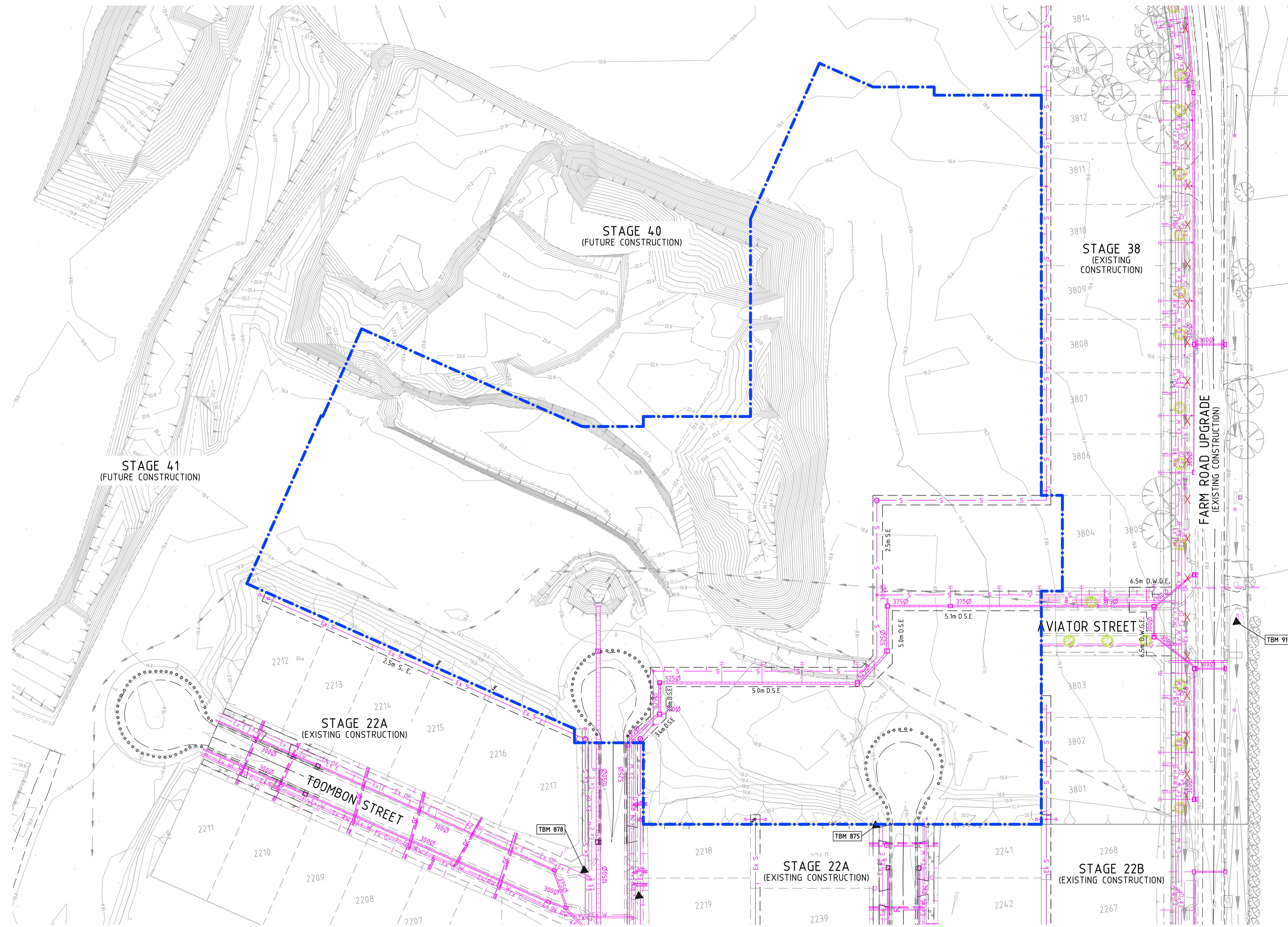
**BEWARE!**  
 DEVELOPMENT VICTORIA FTTH OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 03 9311 4575.

**WARNING!**  
 NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

**DANGER!**  
 OVERHEAD ELECTRICITY TRANSMISSION LINES. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE LINES. THE CONTRACTOR MUST ADHERE TO ALL "NO GO ZONE" REQUIREMENTS OF THE POWER AUTHORITY.

**WARNING!**  
 THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

**WARNING!**  
**BEWARE OF ASBESTOS!**  
 SOME UNDERGROUND SERVICES MAY BE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD.



**NOT TO BE USED FOR CONSTRUCTION**

Drawn R.GUTIERREZ  
 Date 12/08/22  
 AN 3401091  
 Designed P.NICHOLSON  
 Date 21/07/22  
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 Approved T.LIAKOPoulos  
 Date 30/09/22  
 AN 889495  
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**LEGEND**

	PSM / TBM		EX. WATER MAIN		ADJ. WATER MAIN
	STREET NAME SIGN		EX. RECYCLED WATER		ADJ. RECYCLED WATER
	EX. DRAIN & PIT		EX. GAS MAIN		ADJ. GAS MAIN
	EX. TREE TO REMAIN		EX. ELECTRICAL CABLE		ADJ. ELECTRICAL CABLE
	STAGE BOUNDARY		EX. SEWER MAIN & MH		ADJ. SEWER MAIN & MH
	WATER CONDUIT		EX. TELECOMM & PIT		ADJ. OPTIC FIBRE
	RECYCLED WATER CONDUIT				
	GAS CONDUIT				

Coords: MGA Levels: AHD  
  
 www.byda.com.au

DEVELOPMENT VICTORIA  
 Scale @ A1/A3 1:500 / 1:1000

**RIVERWALK**  
**STAGE 39**  
 GEELONG ROAD, WERRIBEE  
 WYNDHAM CITY COUNCIL  
 EXISTING FEATURES PLAN  
 Drawing No. 10939EF01  
 Sheet No. 29 of 29

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**PRELIMINARY**

Drawing File: C:\124\_Synergy\deltaelta\ENERGY-ME\10939-Riverwalk - Stage 39\_2407\3\_Design\1\_ACOV\4-RD1  
 109395P01.dwg - PLOT  
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