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DX 30258 Werribee Vic  
ABN: 38 393 903 860

Your Ref:

Our Ref: SDW3334/22  
WYP13135/21

Enquiries: Rabin Khad Thakuri  
Tel: (03) 8754 4999

20 September 2022

Spiire Australia Pty Ltd  
L 6 414 La Trobe St  
MELBOURNE VIC 3000

Dear Matthew Readman

**RE: HARLOW STAGE 2 - CONSTRUCTION PLAN APPROVAL**

Please be advised that the road and drainage construction plans submitted to Council for Harlow Stage 2 are approved subject to the following conditions:-

1. **For Sacrificial DN225PVC, need to provide CCTV and cleaning all the pipes.**
2. **Prior to commencement of works, an on-site pre-commencement meeting must be held between Council, the Engineering Consultant and the Contractor. Please contact David Linnie from Council on 0447373381 to book a precommencement meeting.**
3. **Prior to installation of any Tactile Ground Surface Indicators, the proposed product must be inspected and approved by Council. Please notify Councils construction supervisor to book an inspection prior to installation.**
4. **Prior to commencement of works, the Plan of Subdivision must be certified by Council.**
5. **Prior to commencement of approved works within ANY existing road reserves, the consultant/contractor MUST apply for consent to work within the road reserves from Council or any other relevant responsible authorities. The Contractor will be responsible for maintain all existing assets within the limit of works as demonstrated on the approved plans.**
6. **A free-flowing drainage outlet must be established and maintained throughout the entirety of construction works. No road boxing works are to commence in the absence of a free-flowing drainage outlet.**
7. Prior to commencement of works, the consultant/contractor shall provide to Council the following information:-
  - source of quarry material; and
  - optimum moisture content and maximum modified dry density of the F.C.R to be used (from N.A.T.A. approved laboratory).

If the source of the quarry material is changed during the course of the works, new test results shall be provided.

8. Prior to the commencement of works, a Site Environmental Management Plan (SEMP) must be submitted to and **approved** by Council.
9. Construction is to commence within twelve (12) months of approval, otherwise construction plans and specifications are to comply with design standards current at the time of re-submission.
10. Filled allotments shall be compacted in 150mm maximum layers, with compaction tests being taken at not more than 300mm lift on all allotments and filled areas. The test results and location of the tests on each allotment shall be forwarded to Council.
11. Wyndham City Council Specifications and standard details shall be read in conjunction with the approved plans.
12. Prior to Council issuing a Statement of Compliance, pursuant to the Subdivision Act 1988, your firm shall provide to Council the following:
  - Payment of construction supervision fees amounting to 2.5% of the total cost of road and drainage works;
  - Payment of a maintenance bond amounting to 5% of the total cost of road and drainage works;
  - An electronic copy of all as constructed drawings and relevant files in both AutoCad DWG and Adobe PDF file formats, to either [subdiveng@wyndham.vic.gov.au](mailto:subdiveng@wyndham.vic.gov.au) or via Objective Connect. Please note that the minimum resolution of PDF files required is 300dpi;
  - An electronic copy of drainage catchment plans and detailed computations in Adobe PDF file format to either [subdiveng@wyndham.vic.gov.au](mailto:subdiveng@wyndham.vic.gov.au) or via Objective Connect;
  - As constructed asset information for drainage and related assets in digital format in accordance with "D-Spec" to either [subdiveng@wyndham.vic.gov.au](mailto:subdiveng@wyndham.vic.gov.au) or via Objective Connect; and
  - As-constructed asset information for assets within the road reserve in digital format in accordance with "R-Spec" to either [subdiveng@wyndham.vic.gov.au](mailto:subdiveng@wyndham.vic.gov.au) or via Objective Connect; and
  - The A.H.D levels and M.G.A co-ordinates of the high stability P.S.Ms.
  - For further information please see: <https://www.wyndham.vic.gov.au/subdivisionguidelines>
13. Easements are to be created to cover all services which cross any part of private allotments.
14. During construction of works under this permit, access to and egress from the subject land must be via a route designed and approved by the Council. Where practical this access should be remote from established residential areas.
15. Provide Landscaping Plan for approval by Council. Please contact [subdivlud@wyndham.vic.gov.au](mailto:subdivlud@wyndham.vic.gov.au) to arrange a pre-application meeting prior to the submission of landscape plans for municipal reserves and/or public open space.
16. WorkSafe Victoria is to be advised via E-mail ([construction@workcover.vic.gov.au](mailto:construction@workcover.vic.gov.au)) of these Subdivisional works with the following details:
  - Name of the principal contractor
  - Name and phone contact of relevant Engineering Consultants supervisor dealing with the works
  - Brief description of the works
  - Locality/address of the works
  - Estimated commencement date of the works, and
  - Expected completion date of the works.
17. In undertaking the construction works, the developer shall ensure all works are undertaken in accordance with the OH & S Act, Regulation and Codes, and shall maintain a safe workplace for Council's staff undertaking inspections. The supervision of works by Council staff only extends to the quality of Council's future infrastructure and does not include ensuring that the works are undertaken safely.

Please find a set of stamped approved plans attached.

Yours sincerely,



STAN PESKA  
**ENGINEERING SUBDIVISIONS CO-ORDINATOR**

Encl: (1) Stamped approved plans

# HARLOW ESTATE STAGE 2

## GENERAL NOTES:

### SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 2020, ZONE 55.
- 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 AND ARE ACCURATE TO WITHIN ±0.05m.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.

### EARTHWORKS

- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED 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.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
- FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- TBM'S 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 TBM'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150mm DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.

- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUGGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELLED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION.
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.

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- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.

### SERVICES

- GAS AND WATER CONDUITS ARE TO BE .050mm CLASS 12 P.V.C. - SINGLE SERVICE. 0100mm CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER) WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:  
ROAD PAVEMENT - 0.80m  
VERGE, FOOTPATHS - 0.45m
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- TELSTRA ARE TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.).
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- 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 CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

### PAVEMENT

- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.

- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.

- 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.

### SIGNAGE AND LINEMARKING

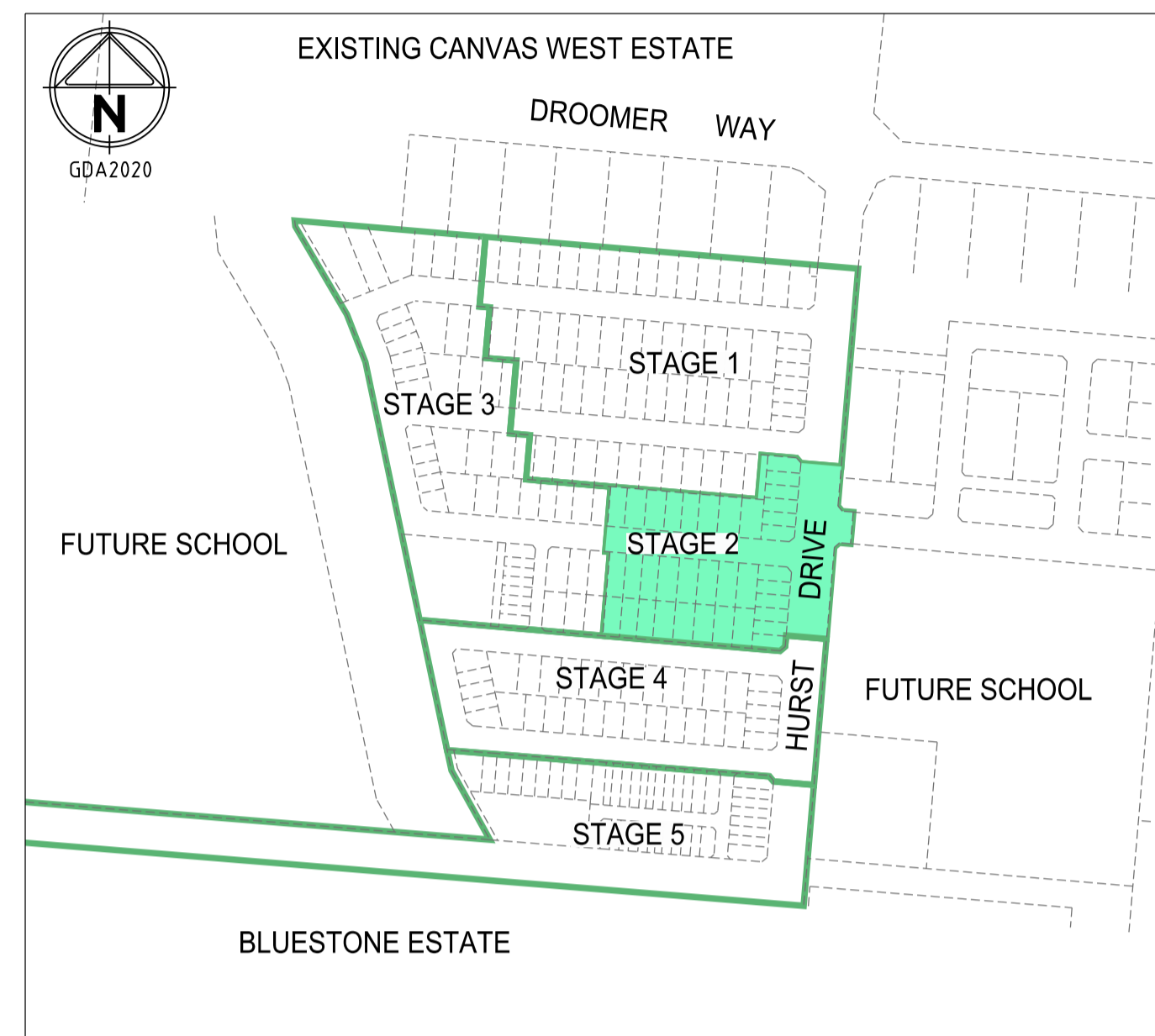
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.

- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

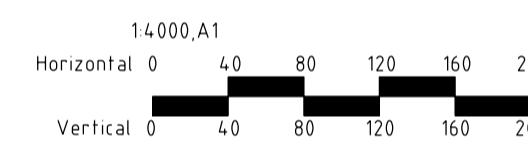
- PRAM CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH EDM STANDARD DRAWING No. 403.

### ENVIRONMENTAL

- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
- 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 SUPERINTENDENT.
- TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.



## LOCALITY PLAN



## DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
309437R01	FACE SHEET	1	0
309437R02	ROAD & DRAINAGE FACE PLAN	2	0
309437R03	LONGITUDINAL SECTION - HURST DRIVE & LUCANIA CRESCENT	3	0
309437R04	LONGITUDINAL & CROSS SECTIONS - RUMBEE CRESCENT & SPRINGFALL ROAD	4	0
309437R05	CROSS SECTIONS - HURST DRIVE	5	0
309437R06	CROSS SECTIONS - LUCANIA CRESCENT	6	0
309437R07	CROSS SECTIONS - RUMBEE CRESCENT	7	0
309437R08	INTERSECTION DETAILS	8	0
309437R09	DRAINAGE LONG SECTION SHEET 1 OF 3	9	0
309437R10	DRAINAGE LONG SECTION SHEET 2 OF 3	10	0
309437R11	DRAINAGE LONG SECTION SHEET 3 OF 3 & PIT SCHEDULE	11	0
309437R12	PAVEMENT PLAN AND TYPICAL DETAILS	12	0
309437R13	SIGNAGE & LINEMARKING PLAN	13	0
309437R14	RAISED PAVEMENT DETAILS	14	0



**WARNING**  
BEWARE OF UNDERGROUND/OVERHEAD SERVICES  
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

## SERVICES OFFSETS AND LOCATION TABLE

Location	GAS	WATER		ELECTRICITY		TELECOM
		NDW	DW	CABLES	POLE	
HURST DRIVE	2.10 W	2.95 W	3.55 W	2.60 E	0.90 BOK	1.80 E
SPRINGFALL ROAD	1.97 N	2.58 N	3.29 N	2.95 S	0.90 BOK	3.35 S
LUCANIA CRESCENT	2.10 N	2.50 N	3.00 N	2.65 S	0.90 BOK	1.85 S
RUMBEE CRESCENT	2.10 N	2.50 N	3.00 N	2.65 S	0.90 BOK	1.85 S

## LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	NDW
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	OE
TELECOMMUNICATIONS & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
OVERHEAD TELECOMMUNICATIONS	OT	OT
GAS MAIN	G	G
BRANCH SEWER & MAINTENANCE STRUCTURE	S	S
SEWER & MAINTENANCE STRUCTURE	S	S
SEWER RISING MAIN	S	S
CENTRAL INVERT	S	S
COUNCIL STORMWATER DRAIN AND PIT	S	S
STORM WATER DRAINAGE PROPERTY INLETS	S	S
COUNCIL STORM WATER PITS	S	S
HOUSE DRAIN	S	S
AG DRAIN AND FLUSHER	S	S
MWC STORM WATER DRAIN & PIT	S	S
MWC STORM WATER PITS	S	S
STORM WATER DRAINAGE PIT NUMBER	S	S
GAS & WATER CONDUITS	S	S
CONCRETE VEHICLE CROSSING	S	S
PAVEMENT SAWCUT LINE	S	S
RIDGE / CHANGE OF GRADE LINE	S	S
SURFACE CONTOUR MINOR	S	S
SURFACE CONTOUR MAJOR	S	S
SURFACE LEVEL	S	S
BATTER LEVEL (TOP / TOE)	S	S
RETAINING WALL LEVEL (TOP/BOTTOM)	S	S
EARTHWORKS GRADE	S	S
SIGN AND POST	S	S
LIGHT & POLE (BY OTHERS)	S	S
STREET SIGN	S	S
PERMANENT SURVEY MARK	S	S
TEMPORARY BENCH MARK	S	S
BOLLARD	S	S
ROAD CHAINAGES	S	S
LOT CHAINAGES	S	S
SETOUT POINT	S	S
LIMIT OF WORKS	S	S
BATTER	S	S
EXCAVATION GREATER THAN 0.20m	S	S
FILLING GREATER THAN 0.20m	S	S
ROCK BEACHING	S	S
RETAINING WALL	S	S
FENCE - TREE PROTECTION	S	S
FENCE - VEHICLE EXCLUSION	S	S
FENCES	S	S
GUARD RAIL	S	S
OVERLAND FLOW PATH	S	S
TREE (8 SURVEYED CANOPY) TO BE RETAINED	S	S
TREE TO BE PROTECTED	S	S
TREE TO BE REMOVED	S	S
VEGETATION LINE	S	S
FOOTPATH	S	S
TACTILE GROUND SURFACE INDICATOR	S	S
KERB TRANSITION	S	S

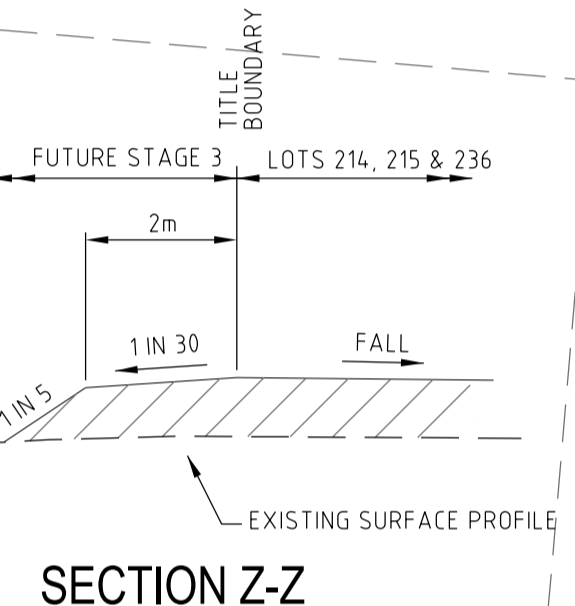
Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22

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spiire.com.au ABN 55 050 029 635

**Harlow**  
T A R N E I T  
Designed  
R. WEINBER  
Checked  
M. READMAN  
Authorised  
M. READMAN  
Date  
04-07-2022

**HARLOW ESTATE STAGE 2 FACE SHEET**  
SIG GROUP WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No **309438R01** Rev **0**



**LEGEND**

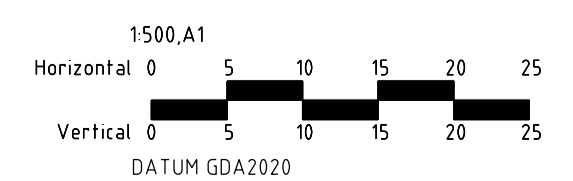
EXCAVATION GREATER THAN 0.2m	
FILLING GREATER THAN 0.2m	
BATTER	
EXISTING SURFACE LEVEL	ES0 17
FINISHED SURFACE LEVEL	FS49 89
TOP OF BATTER LEVEL	T49 59
LOT GRADE	

**NOTES:**

1. DEPTHS OF CUT AND FILL AS MEASURED BETWEEN EXISTING AND FINISHED SURFACES.
2. BATTER MAXIMUM IN FRONT OF LOT 4 METRES
3. BATTER MAXIMUM TO SIDE OF LOT 2 METRES

**Planning and Environment Act 1987**  
**Wyndham Planning Scheme**  
**Approved Plan As Required**  
**under Condition 51**  
**Permit No WYP13135/21**  
**Date 20/09/2022**

Rev	Description	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22
1	Amendments	Approved	

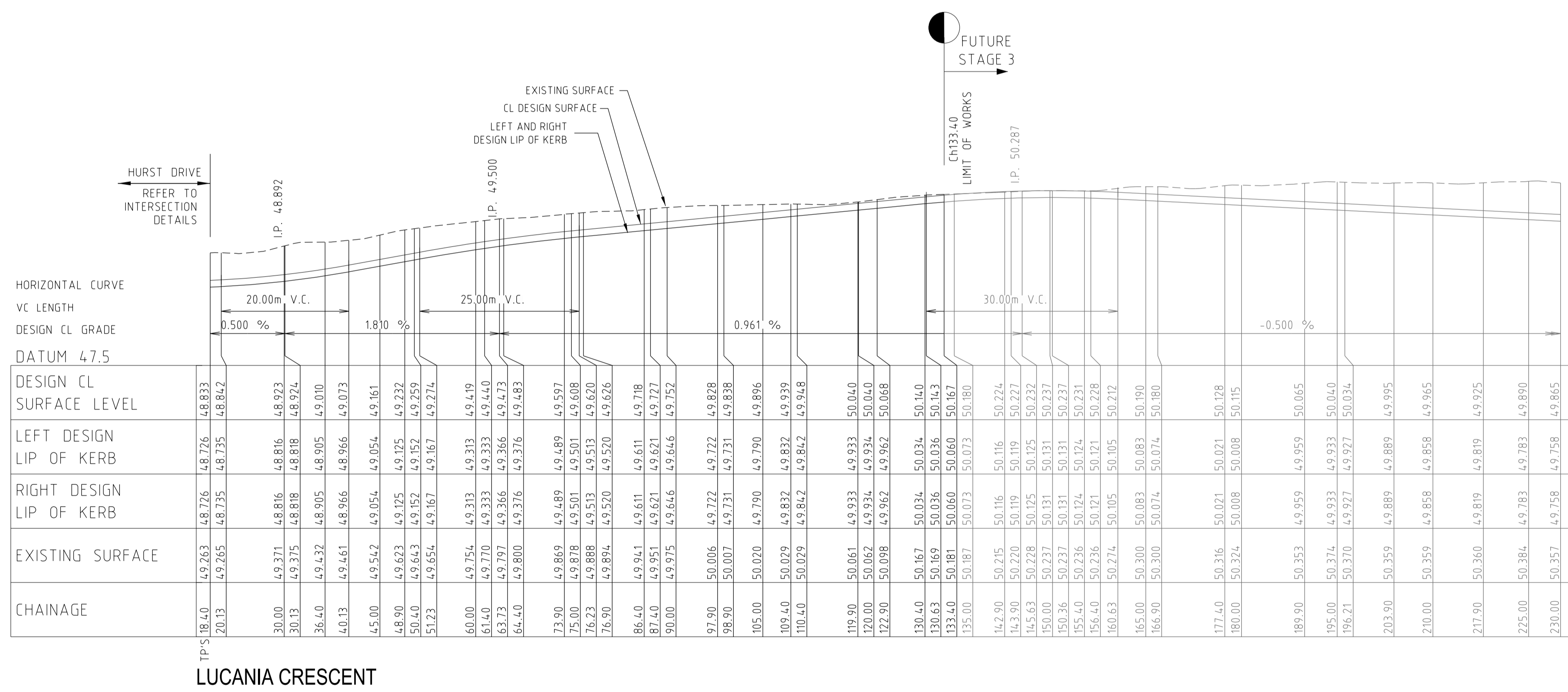
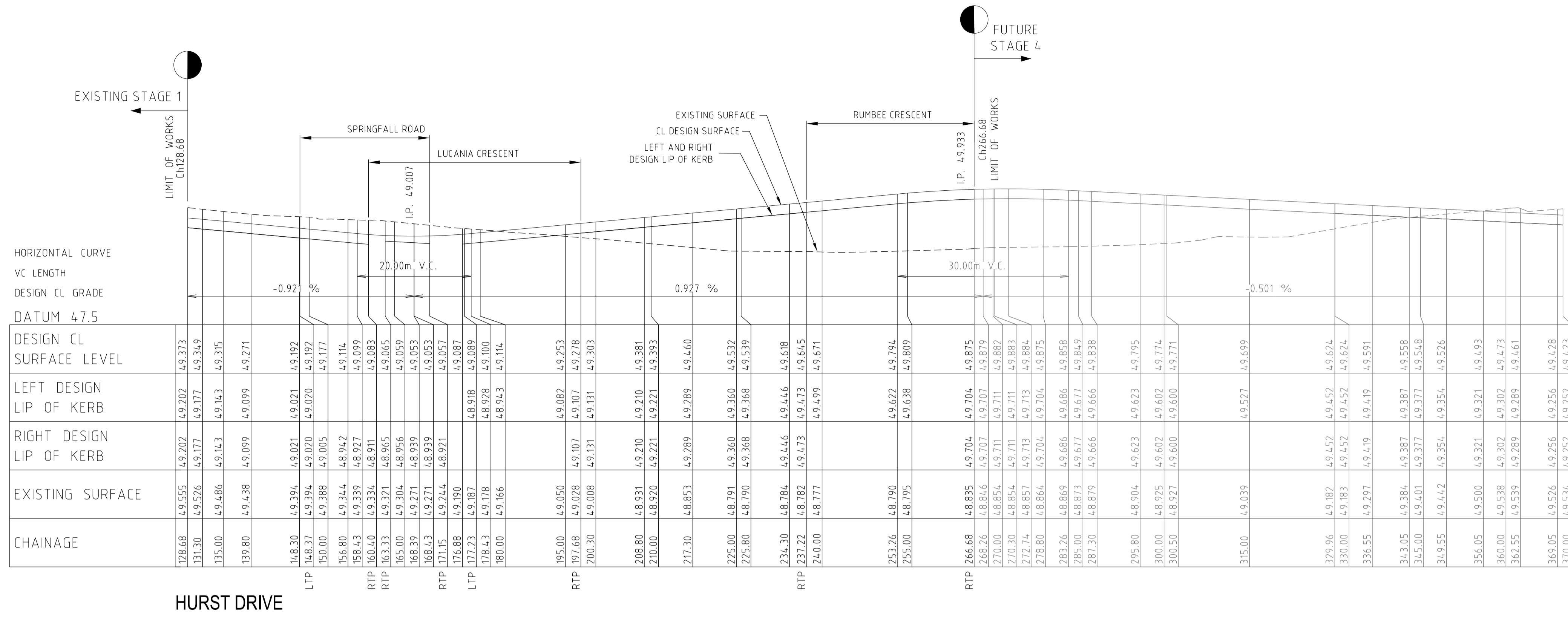


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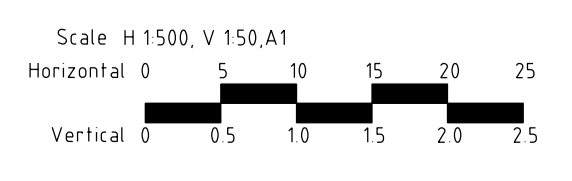
**Harlow**  
 TARNETT  
 Designed R. WEINBER  
 Authorised M. READMAN  
 Checked M. READMAN  
 Date 04-07-2022

**HARLOW ESTATE**  
**STAGE 2**  
**ROAD & DRAINAGE FACE PLAN**  
 SIG GROUP  
 WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No **309438R02** Rev **0**



**Planning and Environment Act 1987**  
**Wyndham Planning Scheme**  
 Approved Plan As Required  
 under Condition 51  
 Permit No WYP13135/21  
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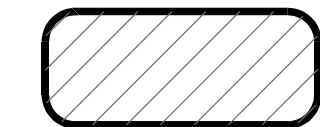


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**Harlow**  
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**04-07-2022**

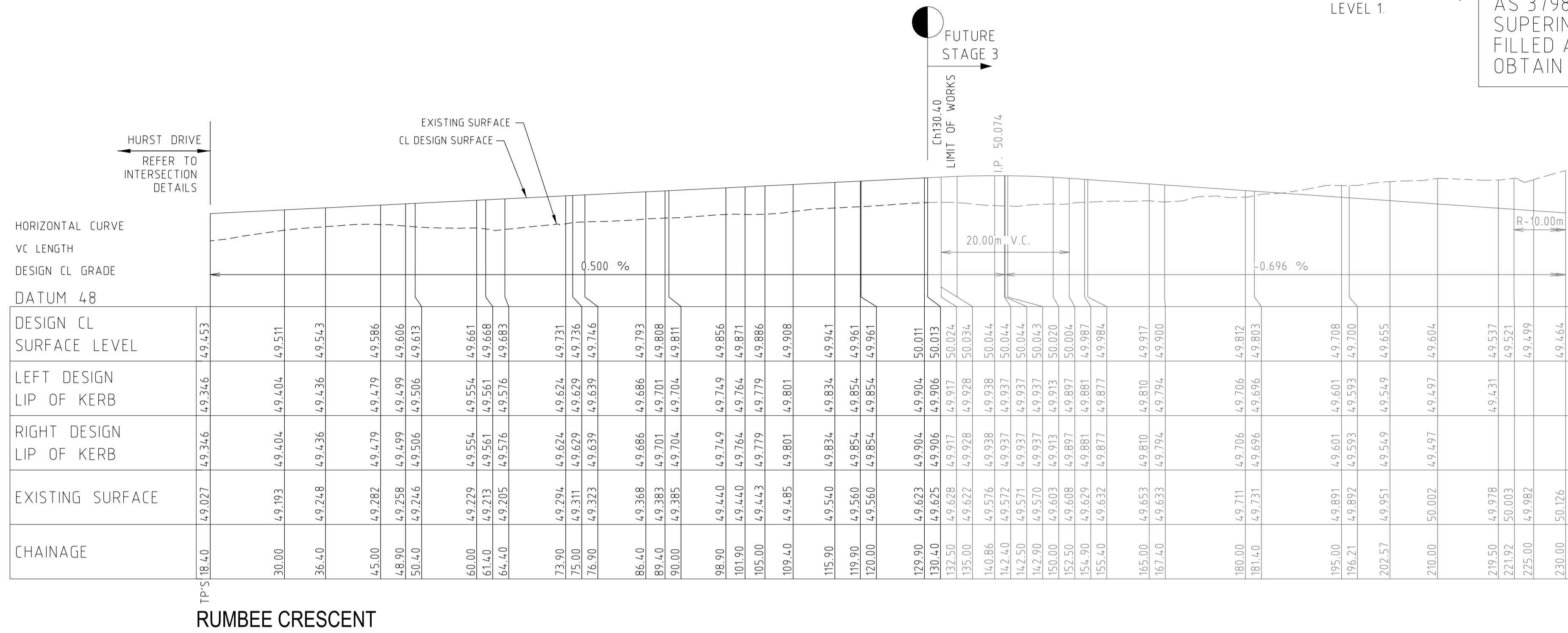
**HARLOW ESTATE**  
**STAGE 2**  
**LONGITUDINAL SECTIONS - HURST DRIVE & HERVY CRESCENT**  
 SIG GROUP  
 WYNDHAM CITY COUNCIL  
**CONSTRUCTION**      Drg No **309438R03**      Rev **0**



STRUCTURAL FILL  
IN ACCORDANCE  
WITH AS3798-2007,  
LEVEL 1.

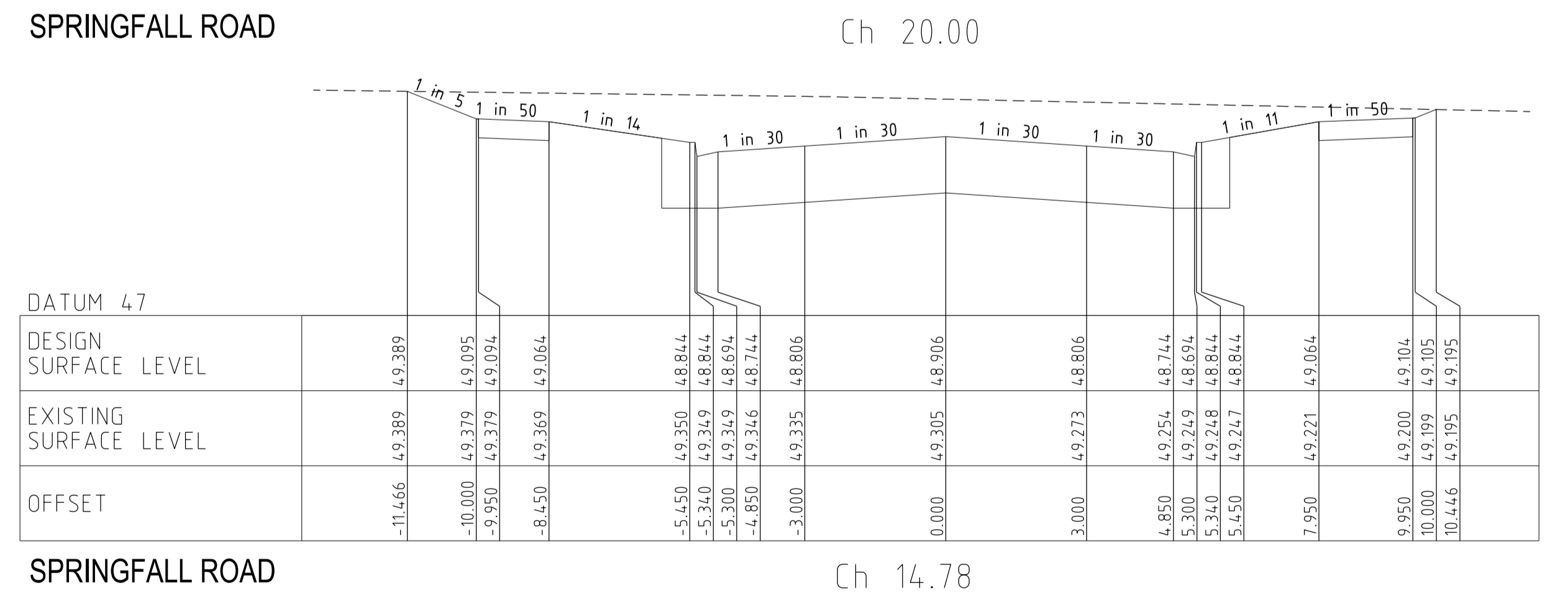
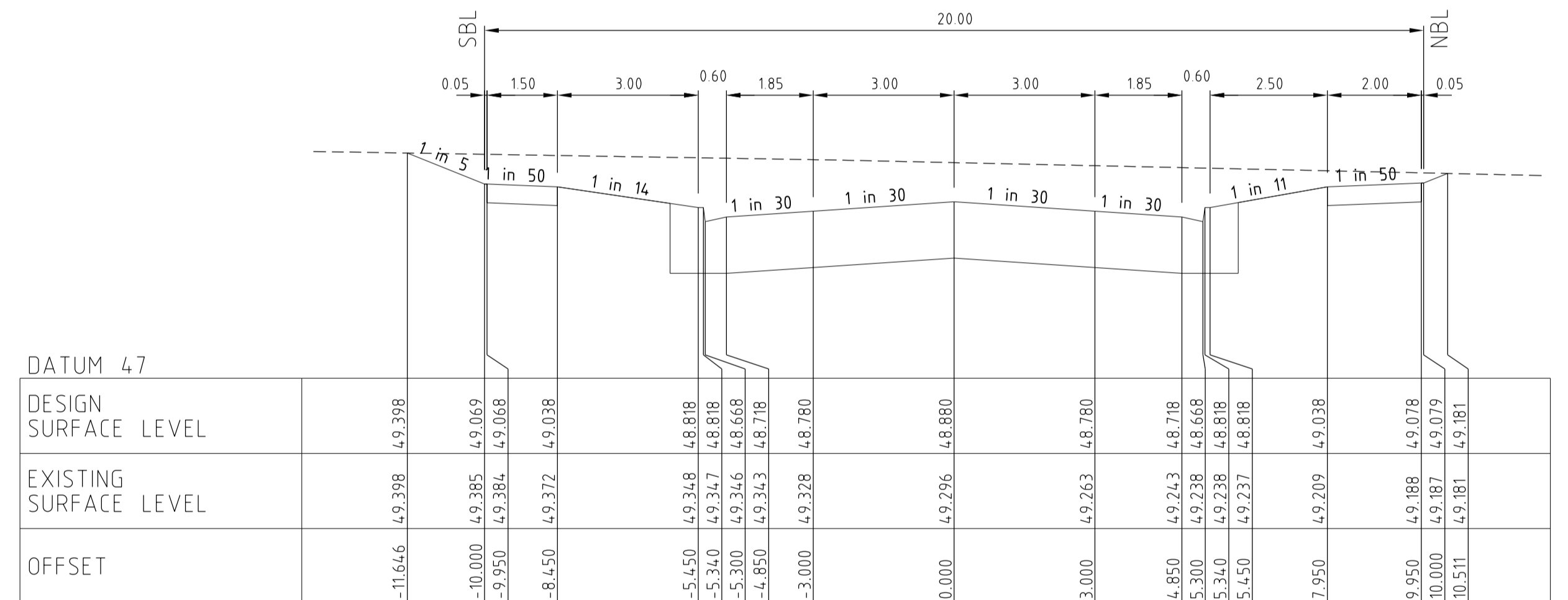
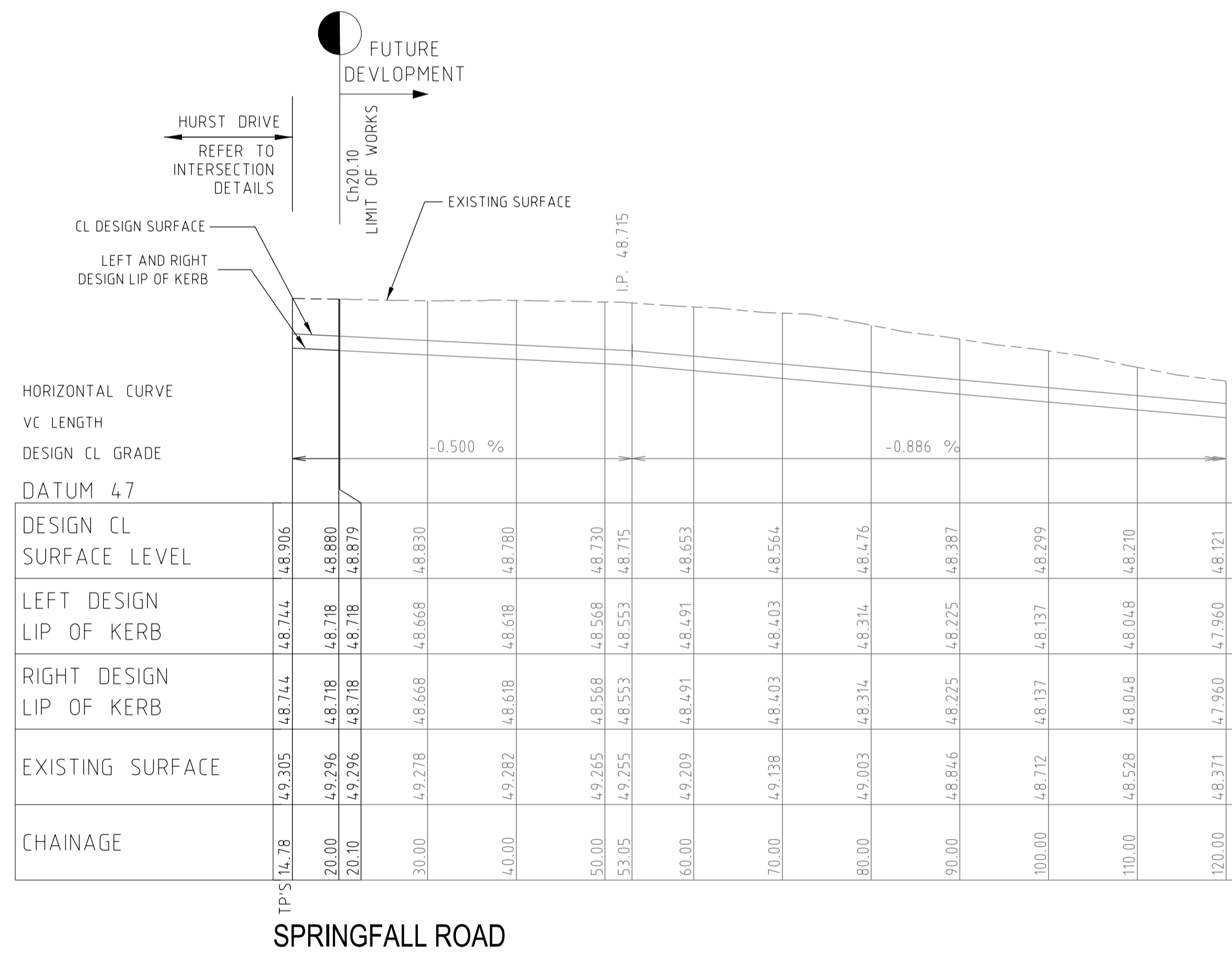
**FILLING NOTE**

ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

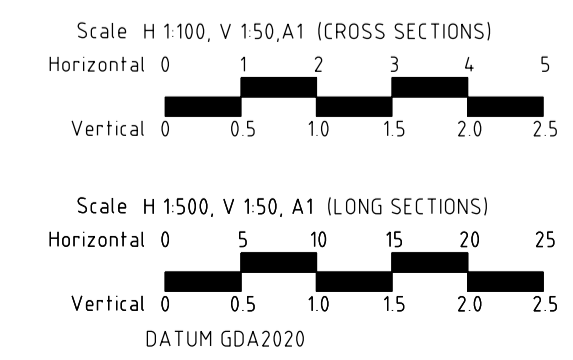


**Planning and Environment Act 1987**  
**Wyndham Planning Scheme**

**Approved Plan As Required**  
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**Harlow**  
T A R N E I T

Designed  
**R. WEINBER**

Checked  
**M. READMAN**

Authorised  
**M. READMAN**

Date  
**04-07-2022**

**HARLOW ESTATE**  
**STAGE 2**  
**LONGITUDINAL & CROSS SECTIONS**  
**RUMBEE CRESCENT & SPRINGFALL ROAD**

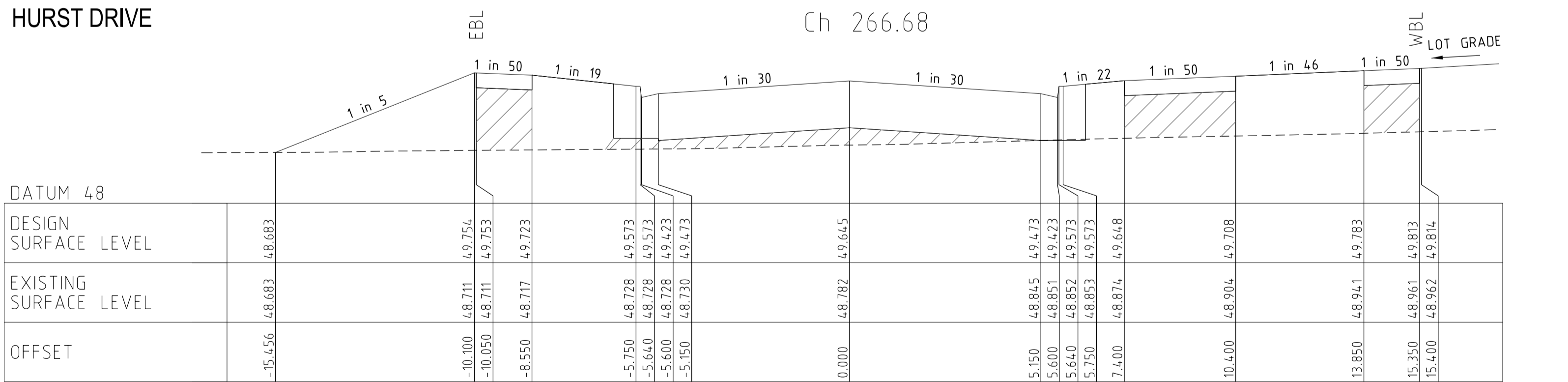
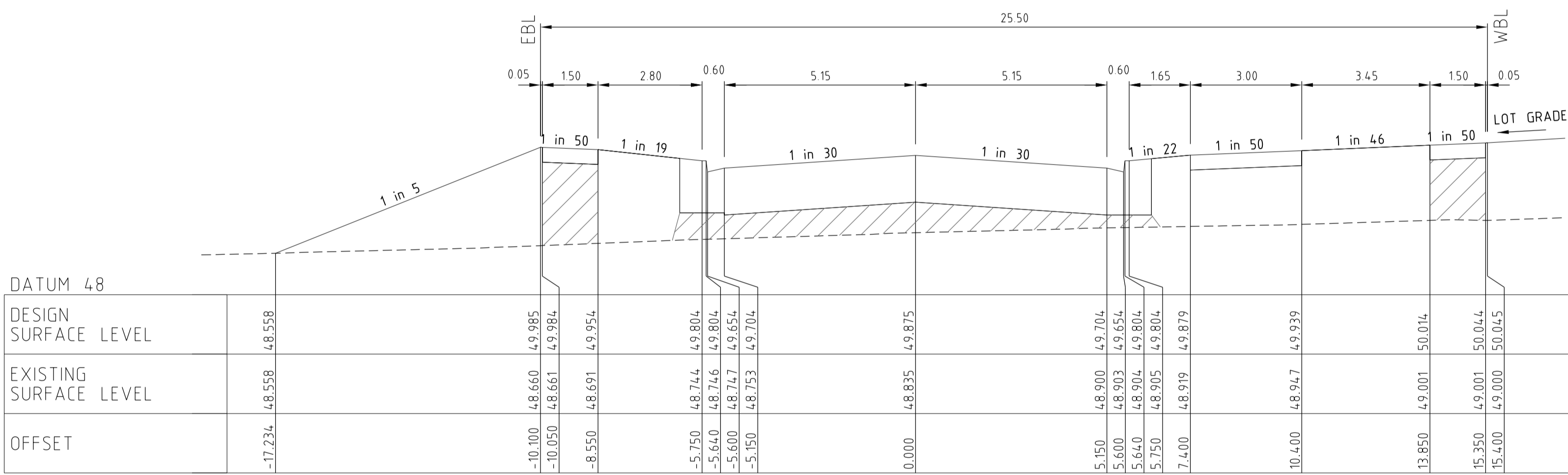
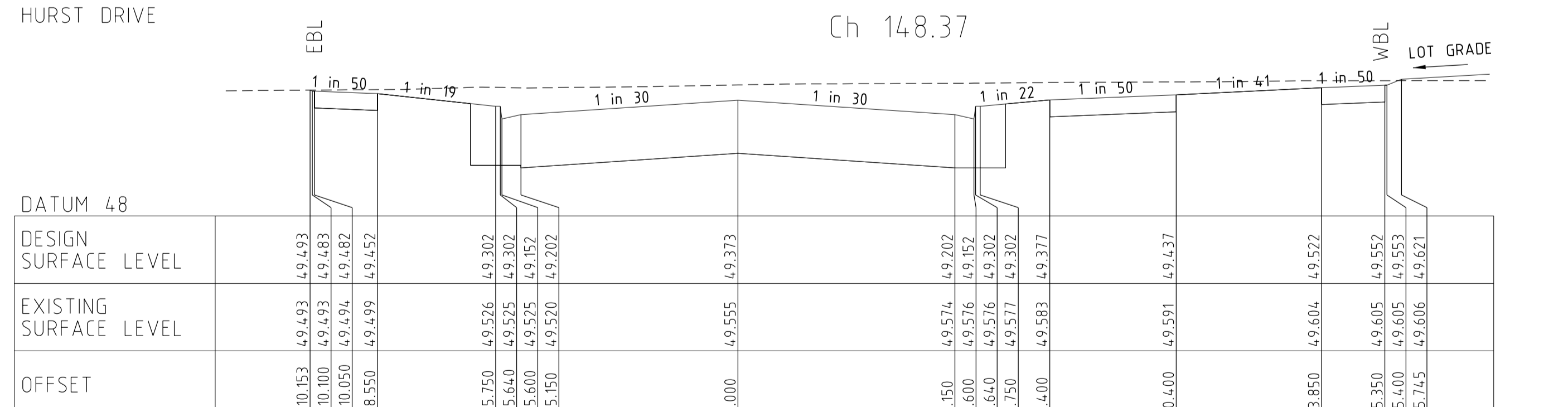
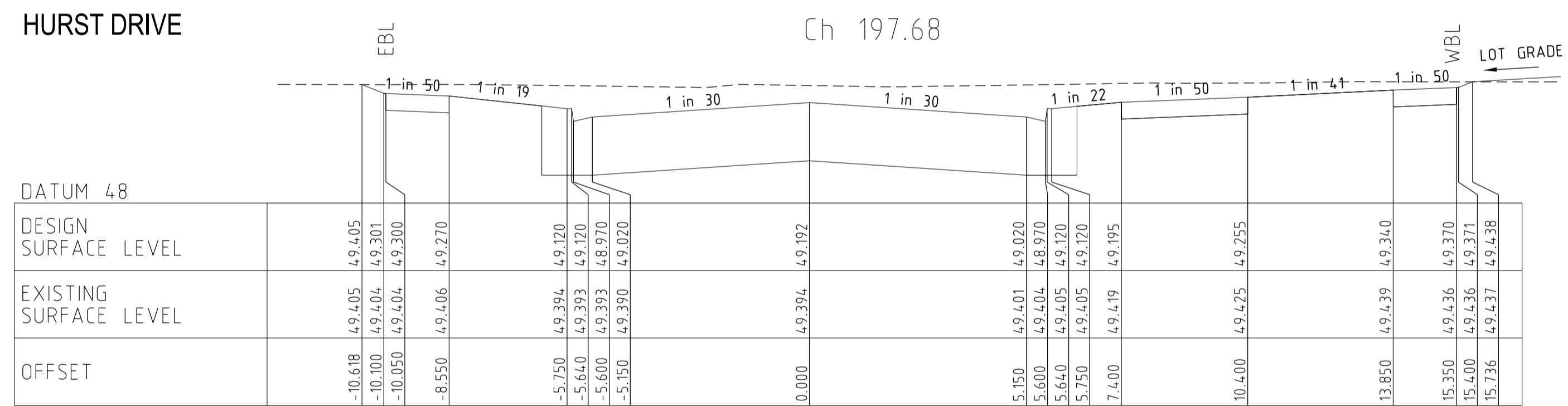
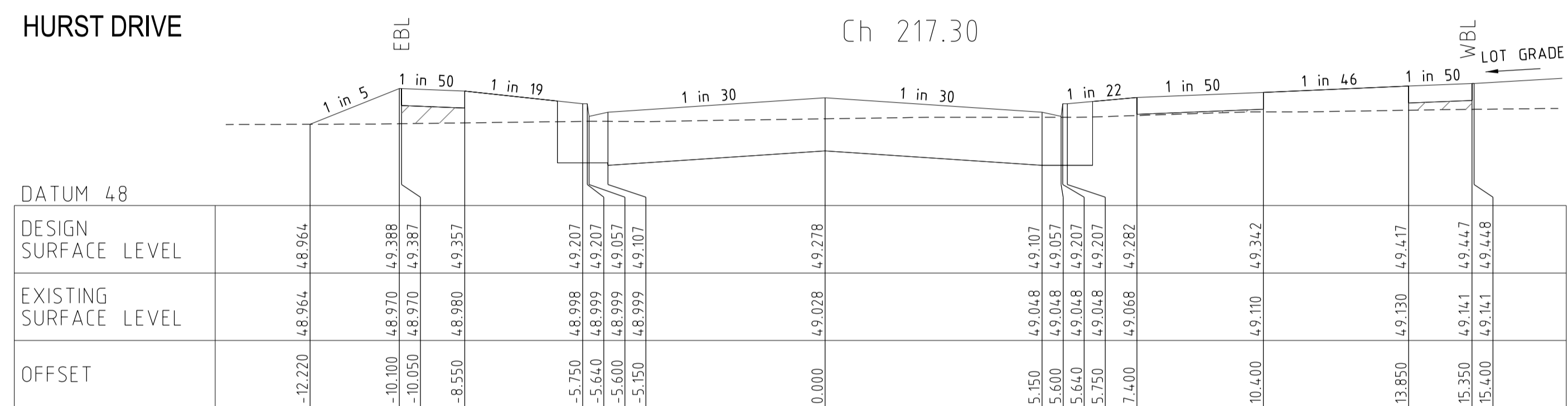
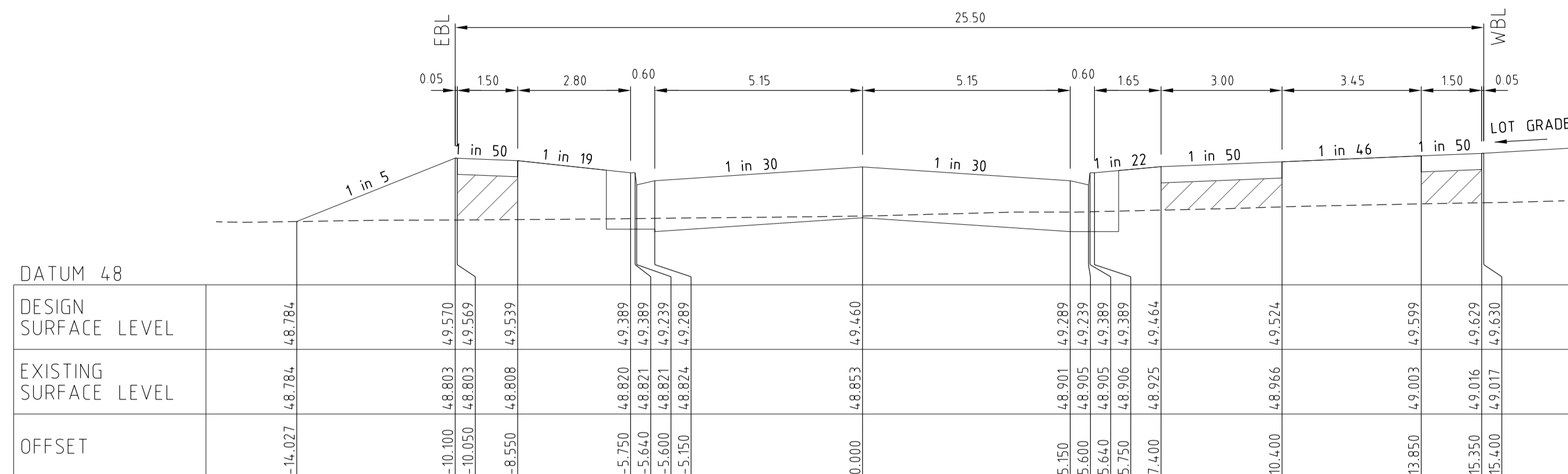
SIG GROUP  
WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No **309438R04** Rev **0**

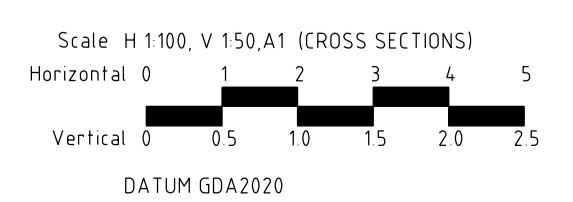


STRUCTURAL FILL  
IN ACCORDANCE  
WITH AS3798-2007,  
LEVEL 1.

**FILLING NOTE**  
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.



Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



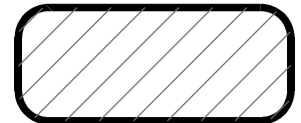
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**Harlow**  
T A R N E I T  
Designed  
R. WEINBER  
Authorised  
M. READMAN  
Checked  
M. READMAN  
Date  
04-07-2022

**HARLOW ESTATE**  
STAGE 2  
CROSS SECTIONS - HURST DRIVE  
SIG GROUP  
WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No  
309438R05 Rev  
0

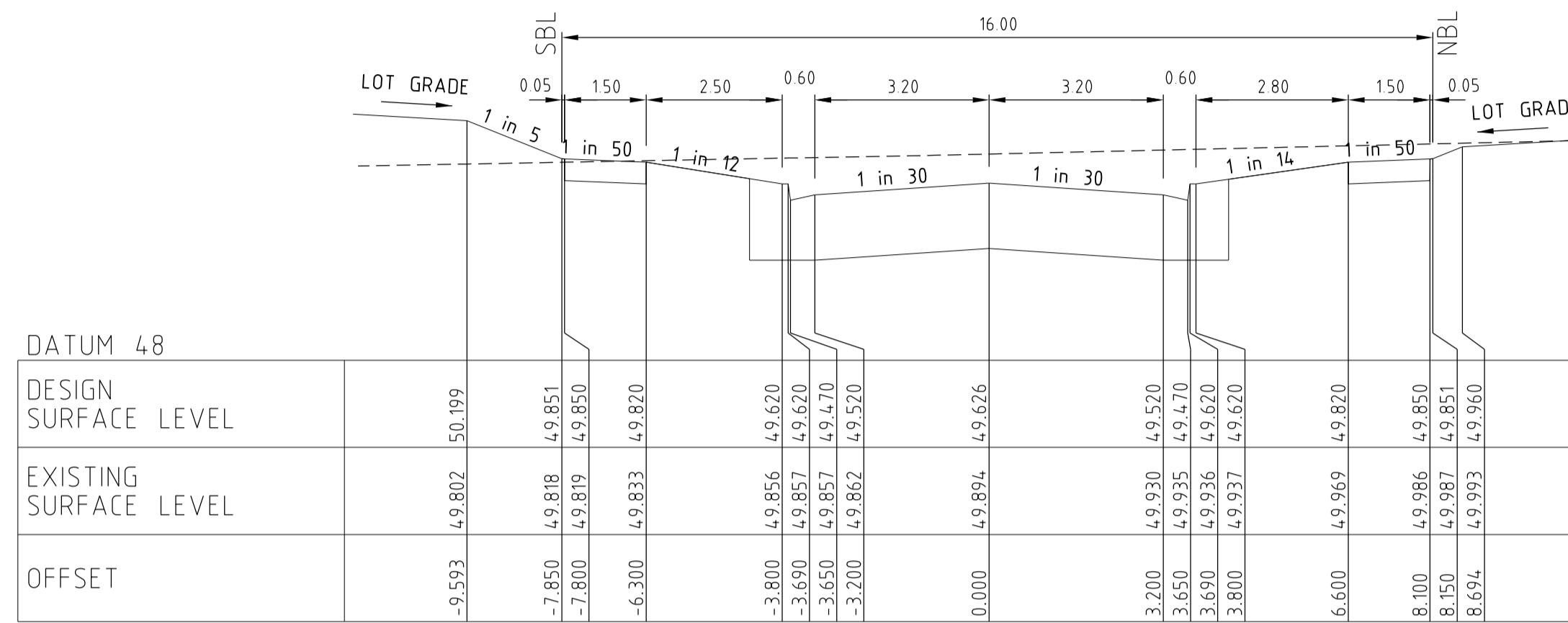




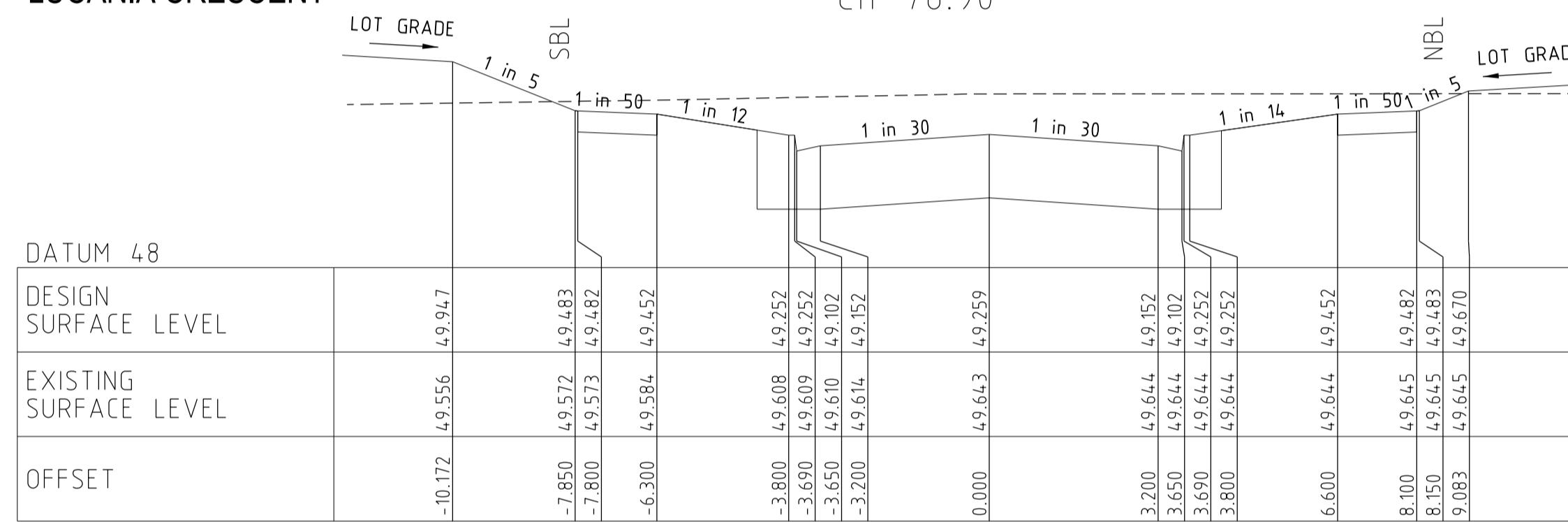
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IN ACCORDANCE  
WITH AS3798-2007,  
LEVEL 1.

FILLING NOTE

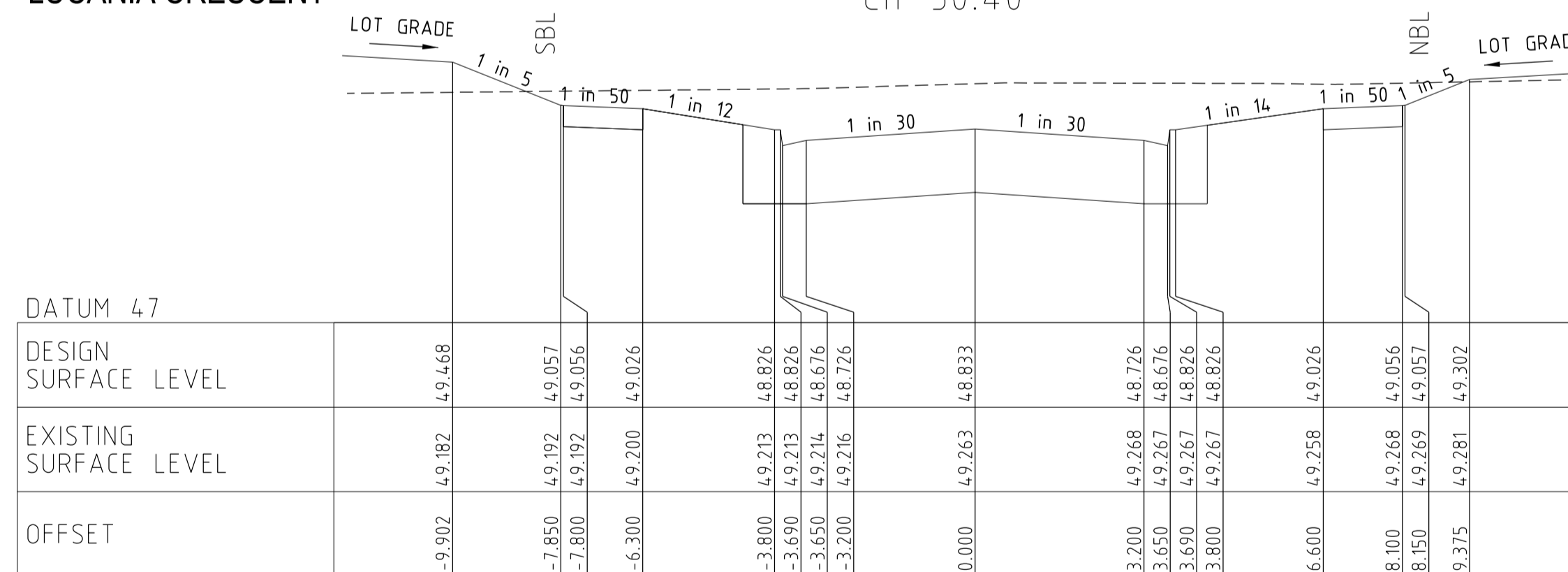
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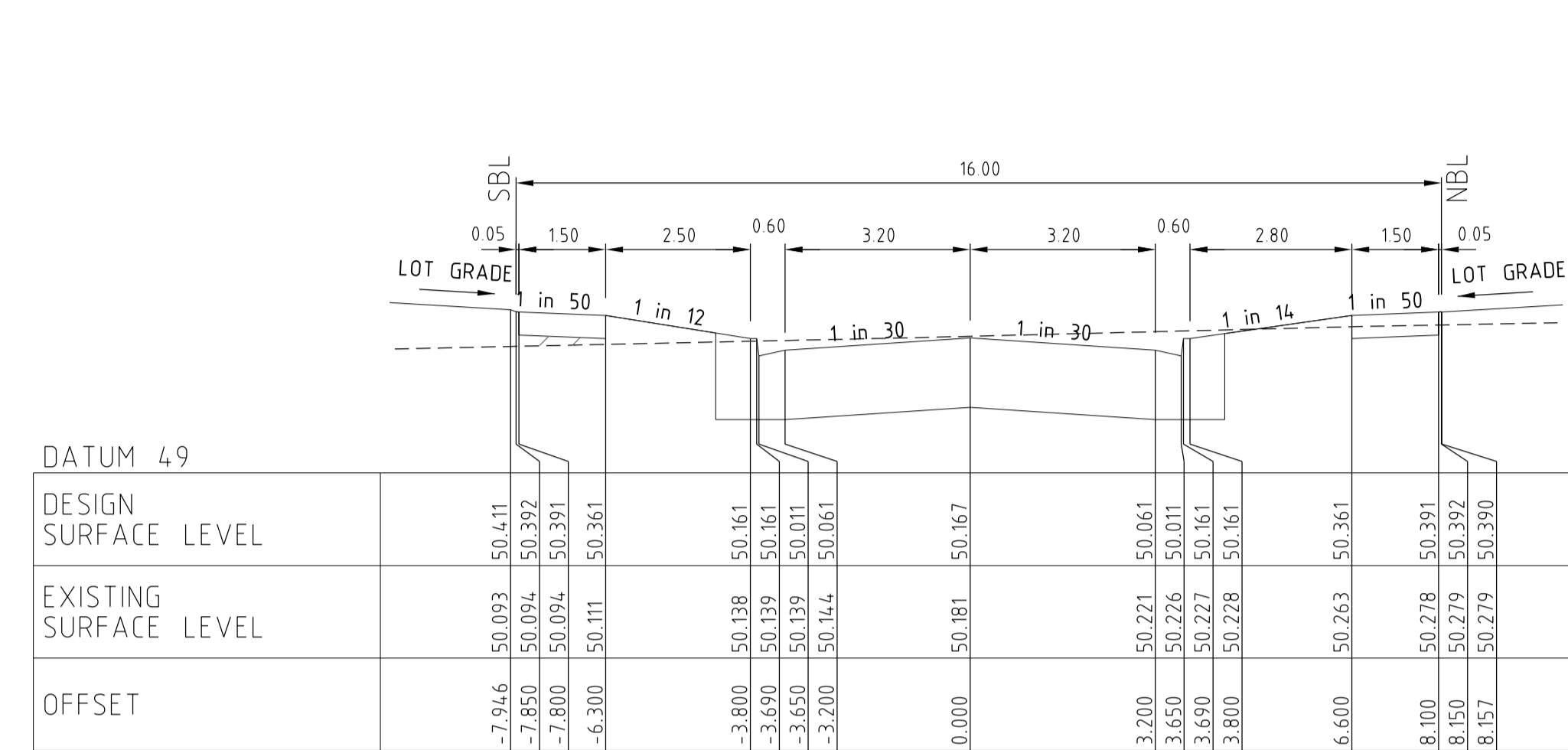
LUCANIA CRESCENT Ch 76.90



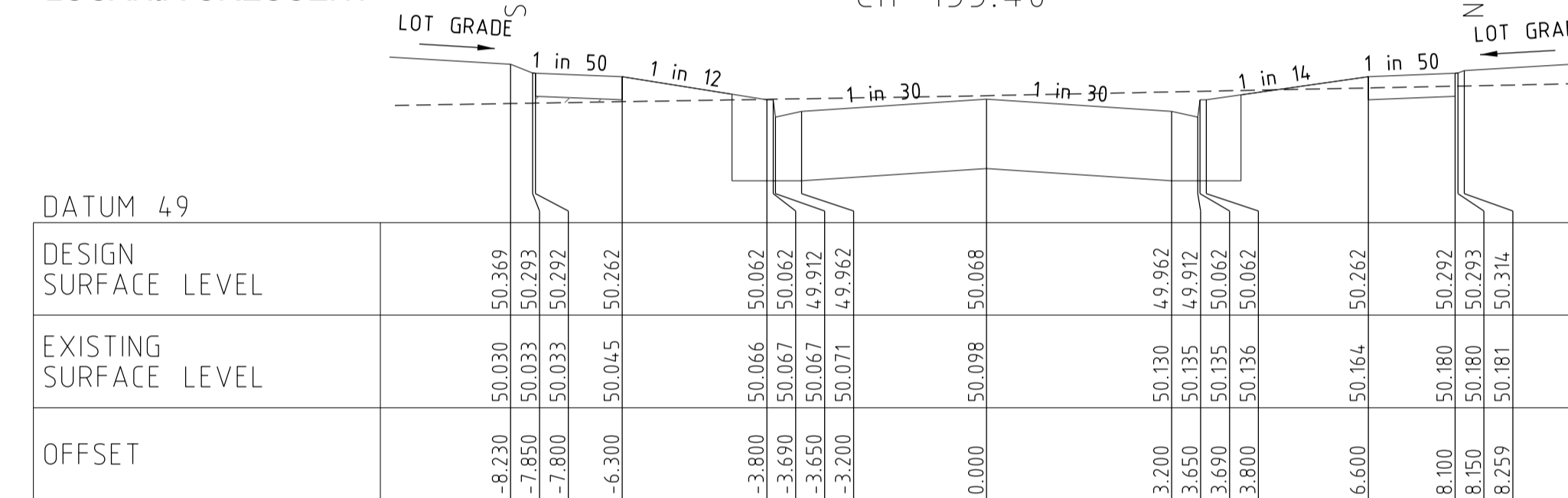
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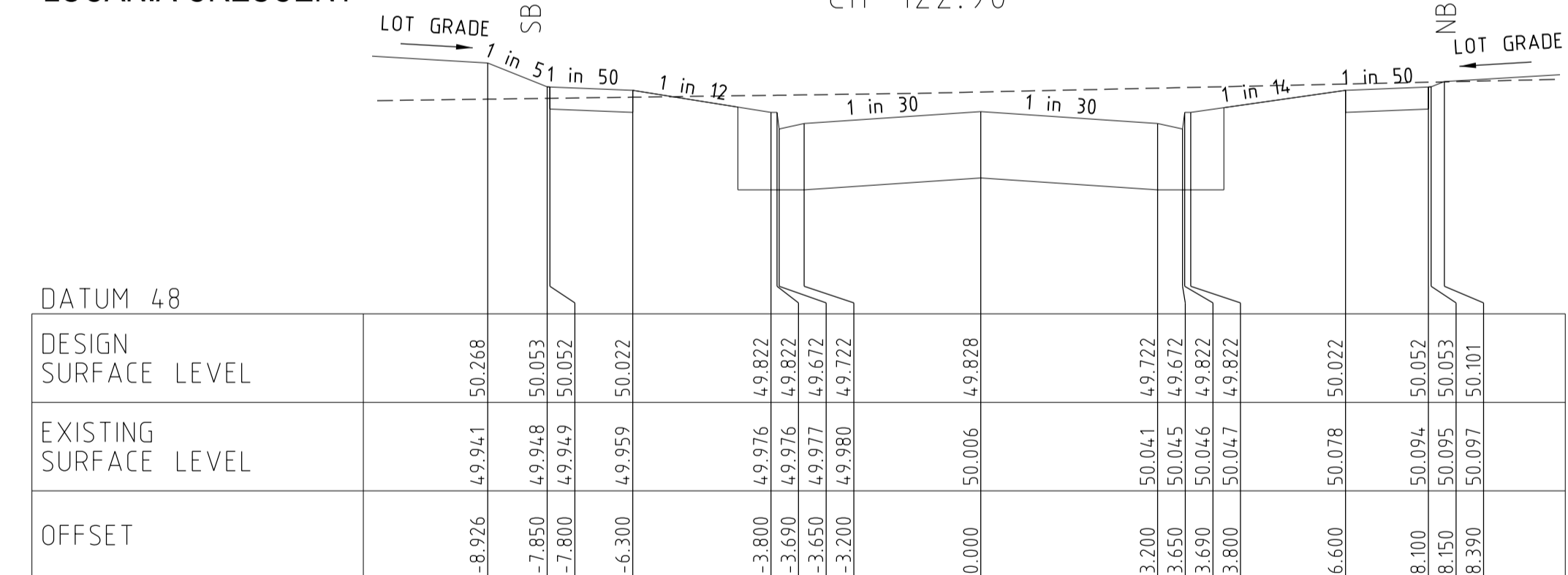
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LUCANIA CRESCENT Ch 133.40



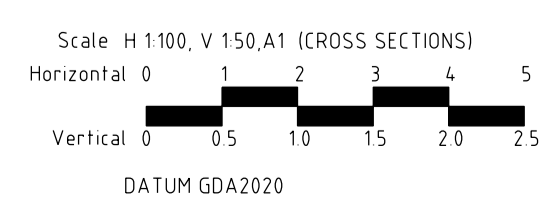
LUCANIA CRESCENT Ch 122.90



LUCANIA CRESCENT Ch 97.90

Planning and Environment Act 1987  
Wyndham Planning Scheme  
  
Approved Plan As Required  
under Condition 51  
Permit No WYP13135/21  
Date 20/09/2022

Rev	Description	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22
	Amendments	Approved	



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Designed  
R. WEINBER  
Authorised  
M. READMAN

Checked  
M. READMAN  
Date  
04-07-2022

HARLOW ESTATE  
STAGE 2  
CROSS SECTIONS - LUCANIA CRESCENT

SIG GROUP  
WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No  
**309438R06**

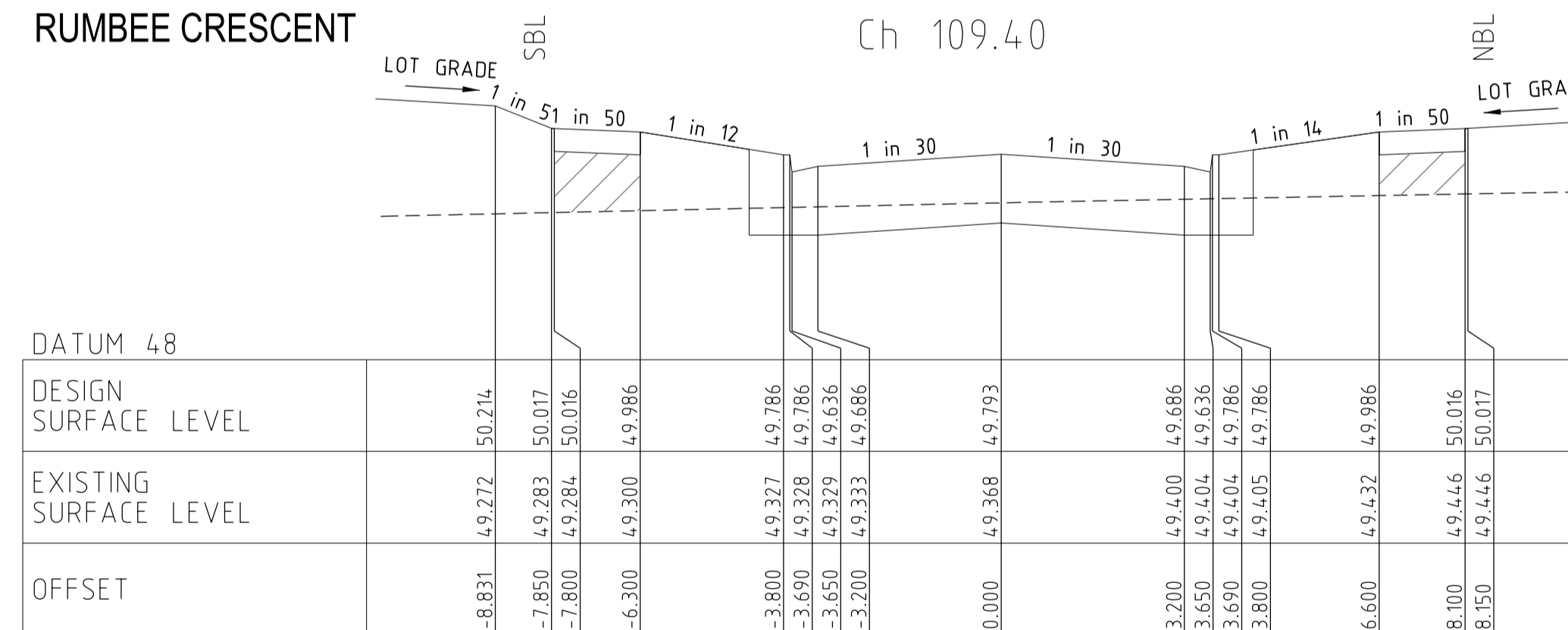
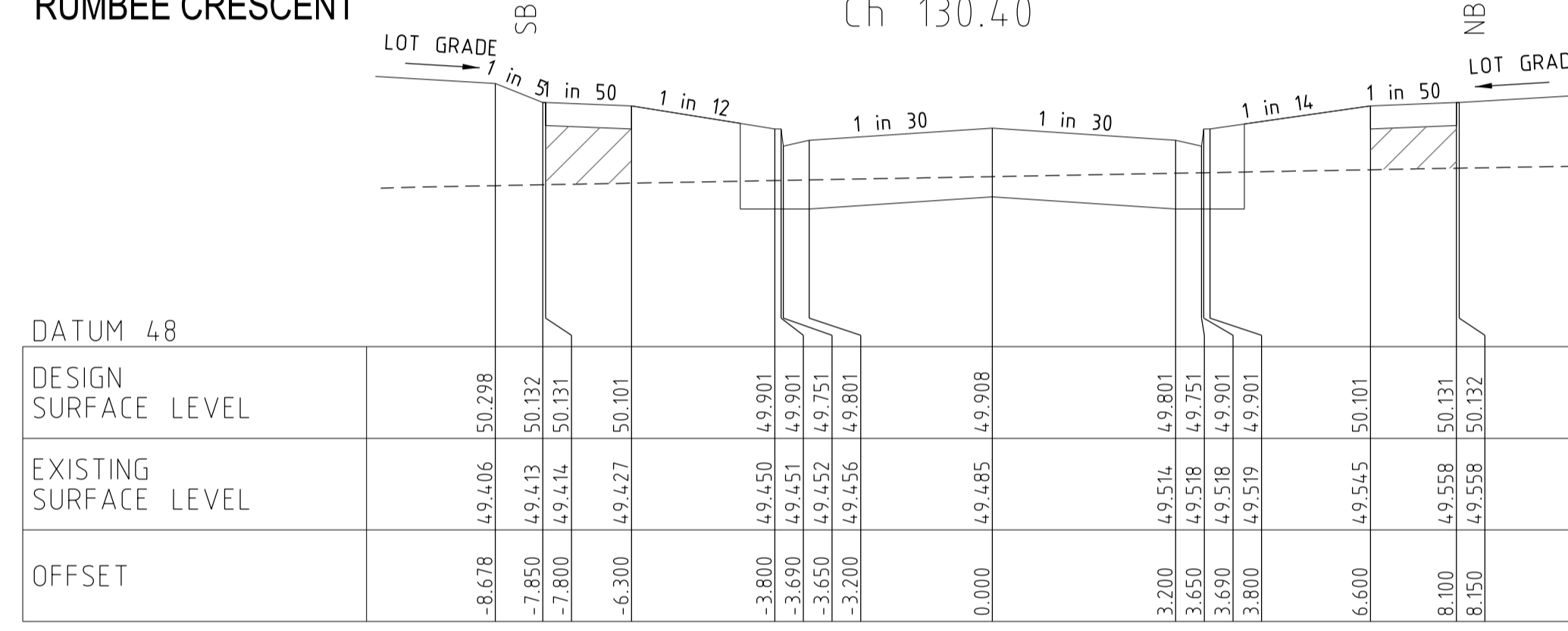
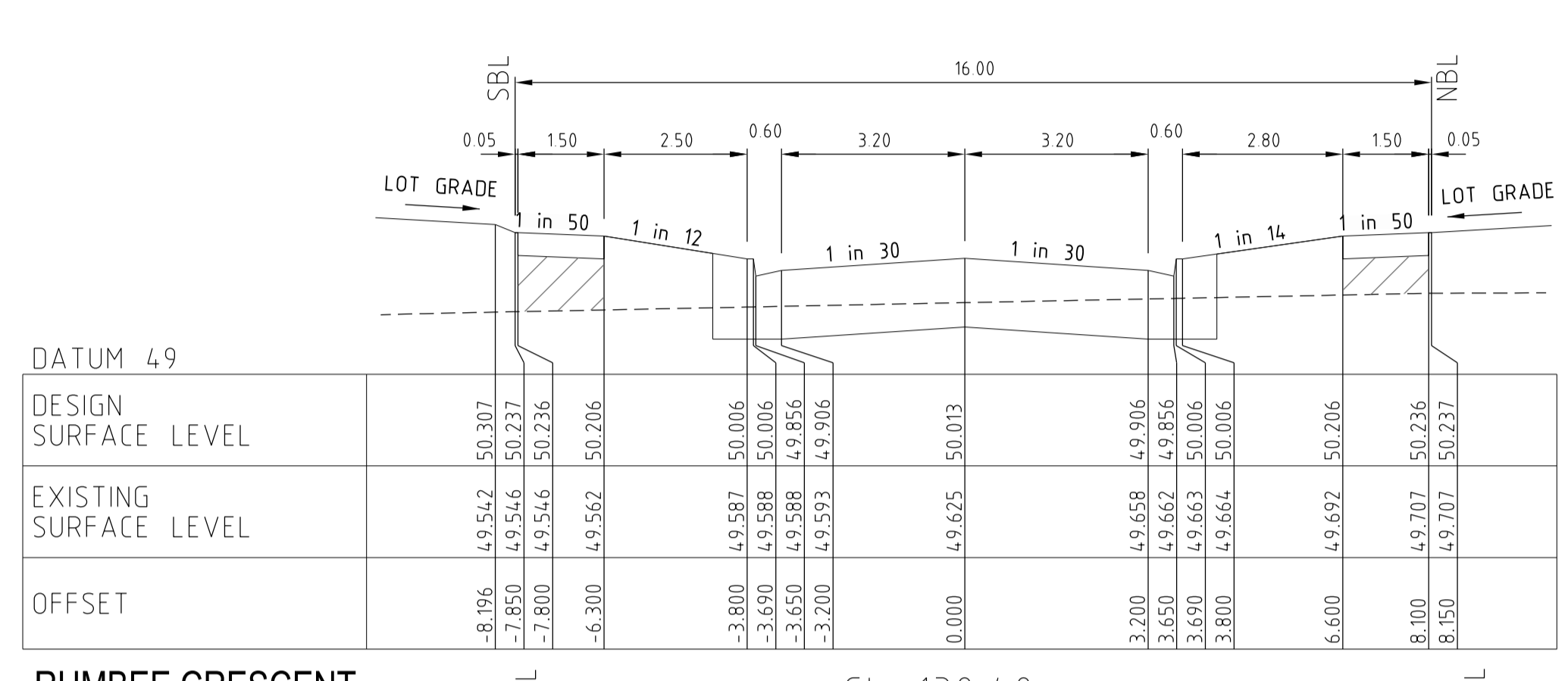
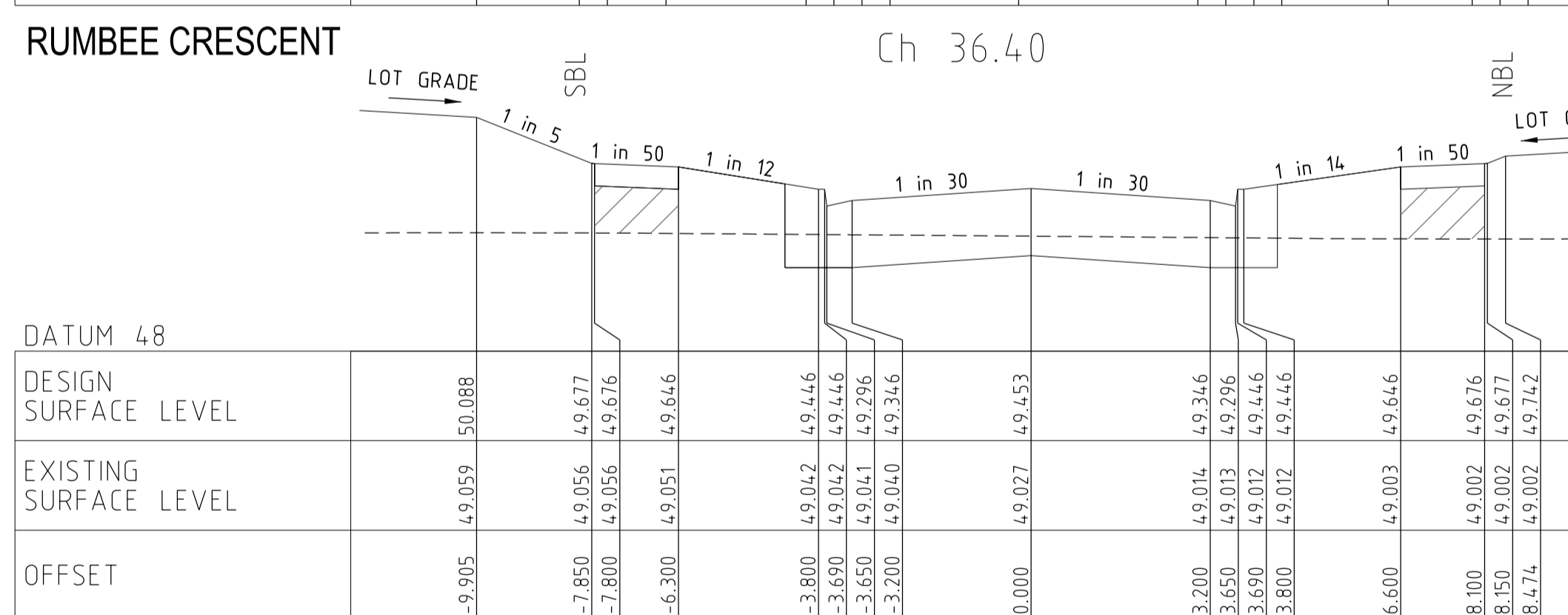
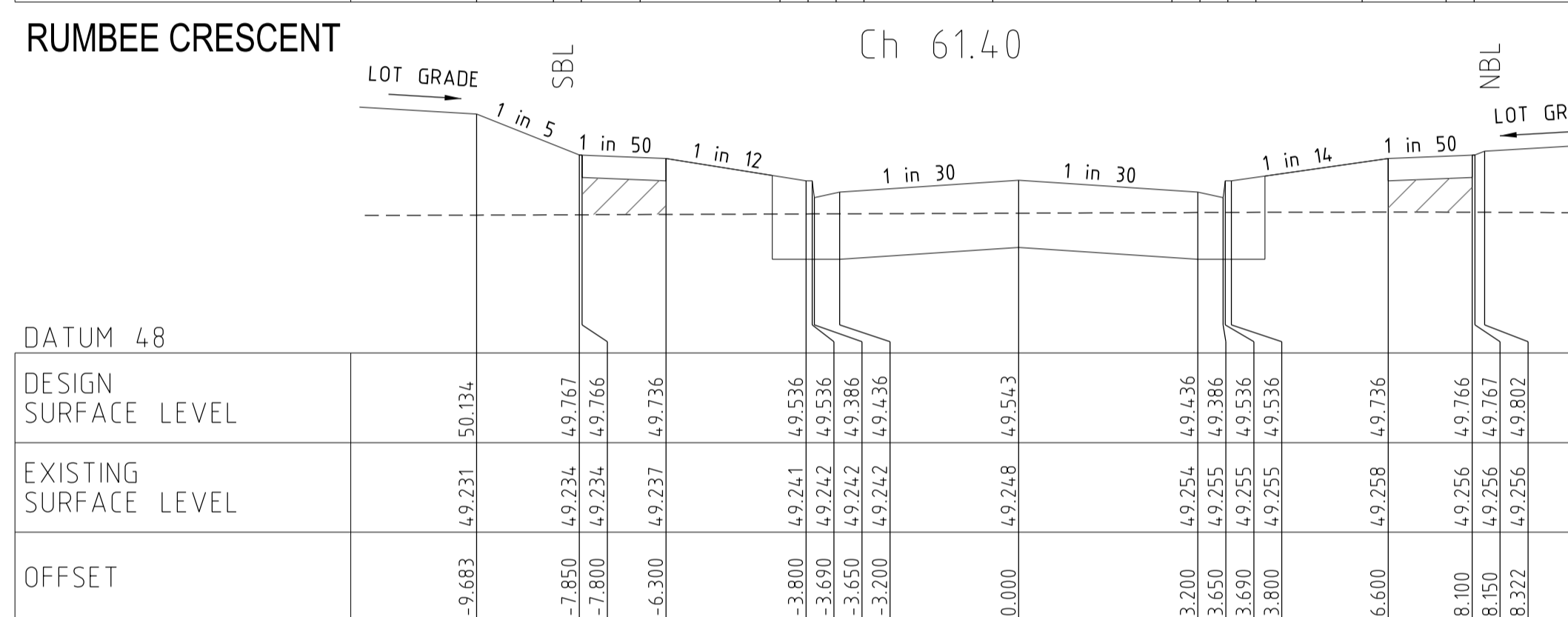
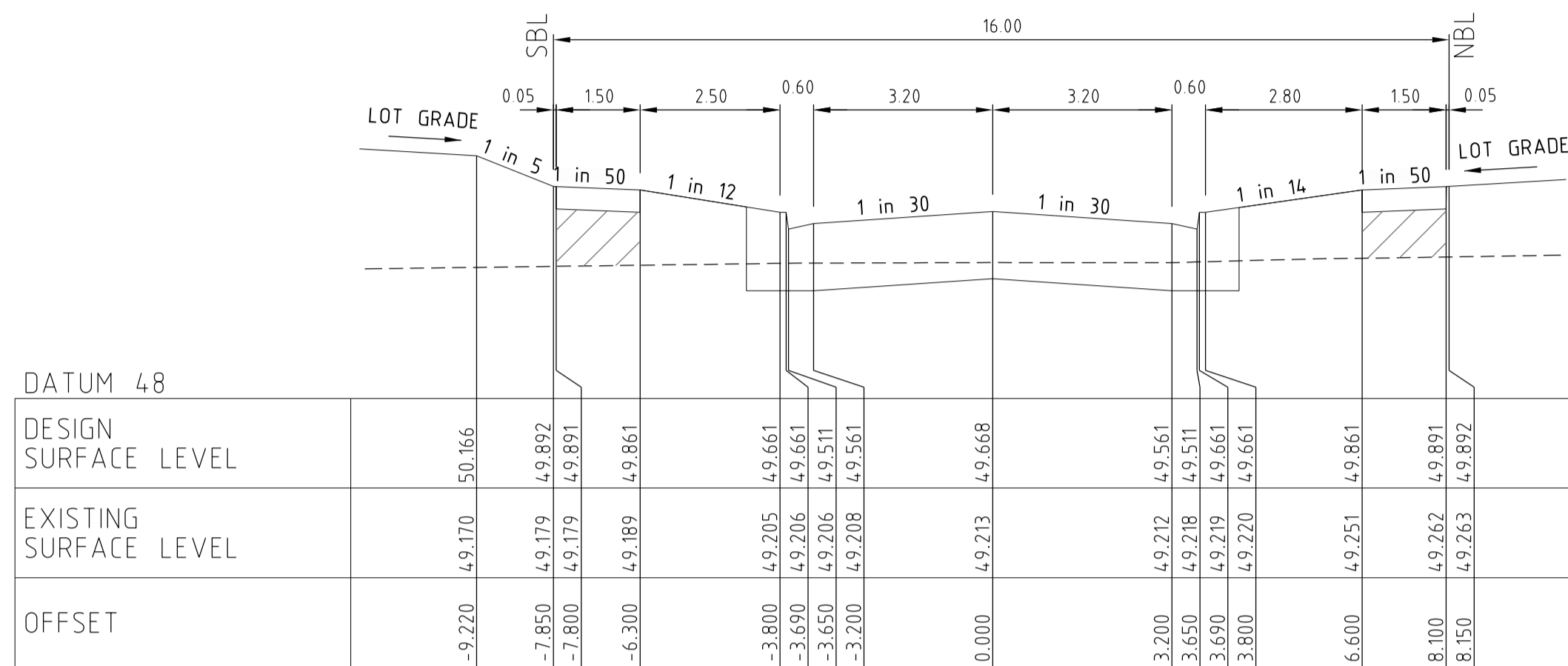
Rev  
**0**



STRUCTURAL FILL  
IN ACCORDANCE  
WITH AS3798-2007,  
LEVEL 1.

**FILLING NOTE**

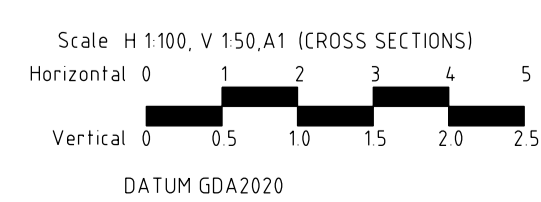
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.



**Planning and Environment Act 1987**  
**Wyndham Planning Scheme**

**Approved Plan As Required**  
**under Condition 51**  
**Permit No WYP13135/21**  
**Date 20/09/2022**

Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



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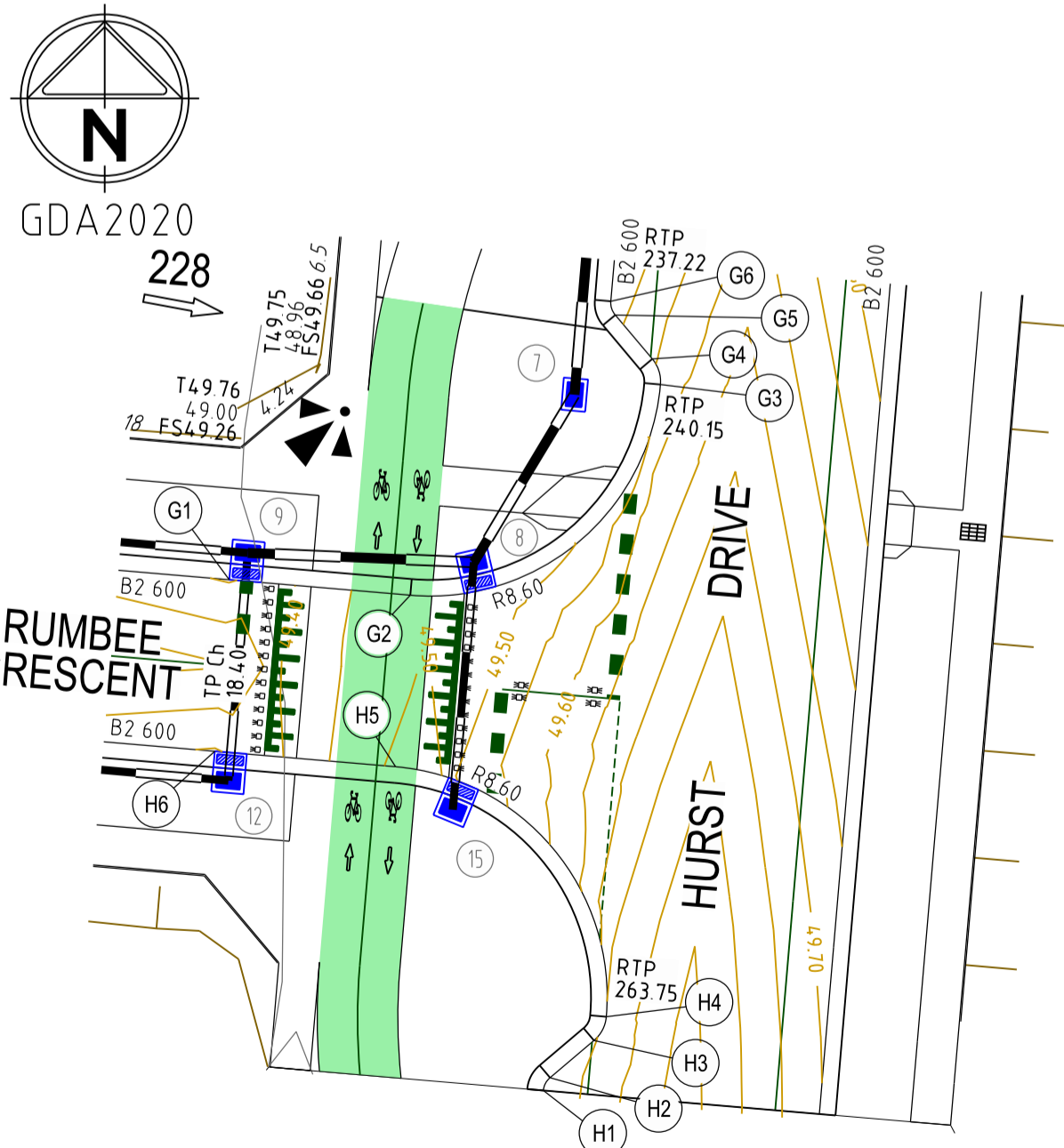
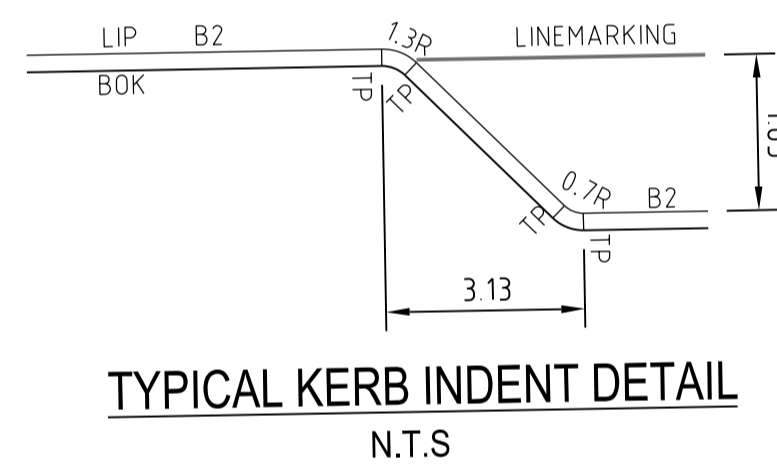
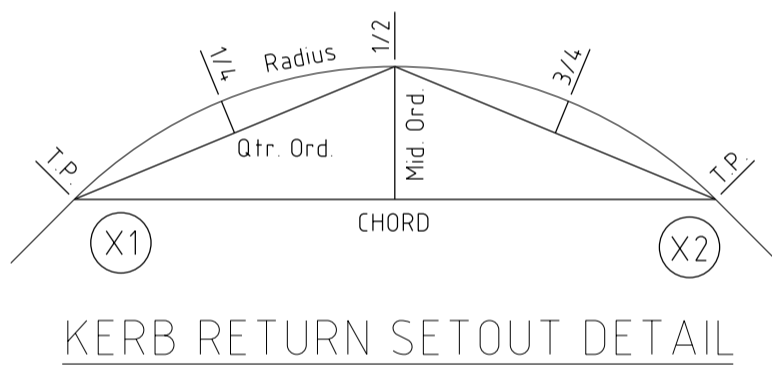
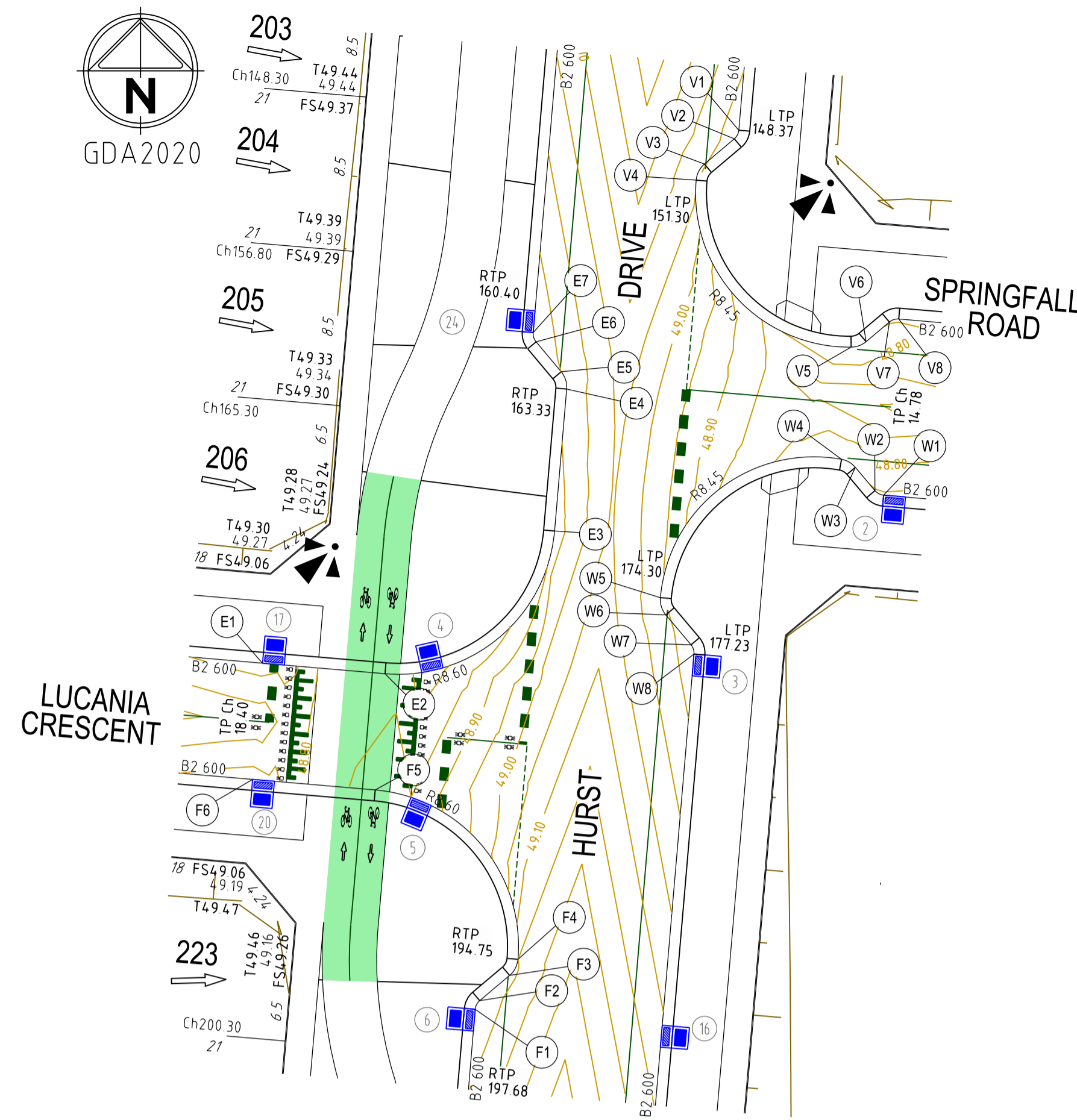
**Harlow**  
T A R N E I T

Designed <b>R. WEINBER</b>	Checked <b>M. READMAN</b>
Authorised <b>M. READMAN</b>	Date <b>04-07-2022</b>

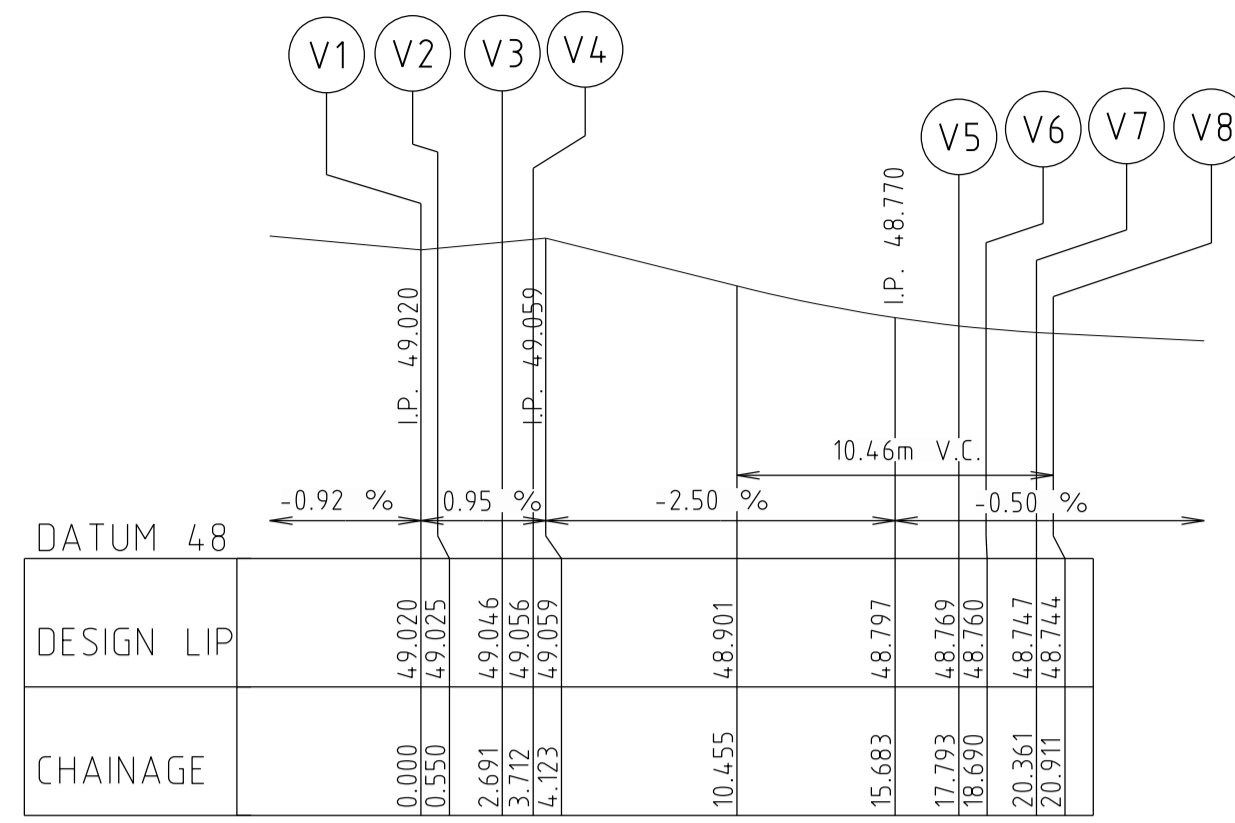
**HARLOW ESTATE**  
**STAGE 2**  
**CROSS SECTIONS - RUMBEE CRESCENT**

SIG GROUP  
WYNDHAM CITY COUNCIL

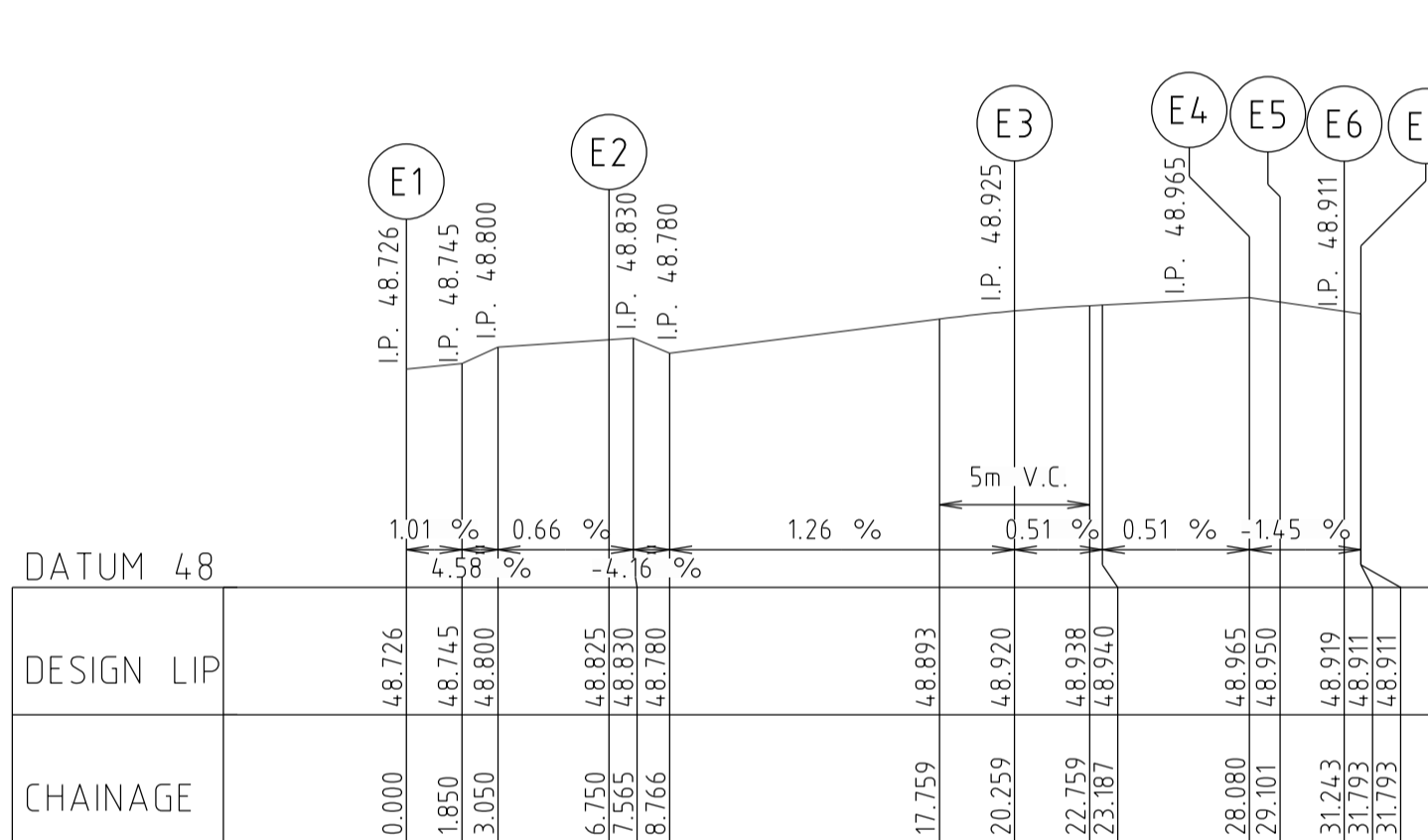
**CONSTRUCTION** Drg No **309438R07** Rev **0**



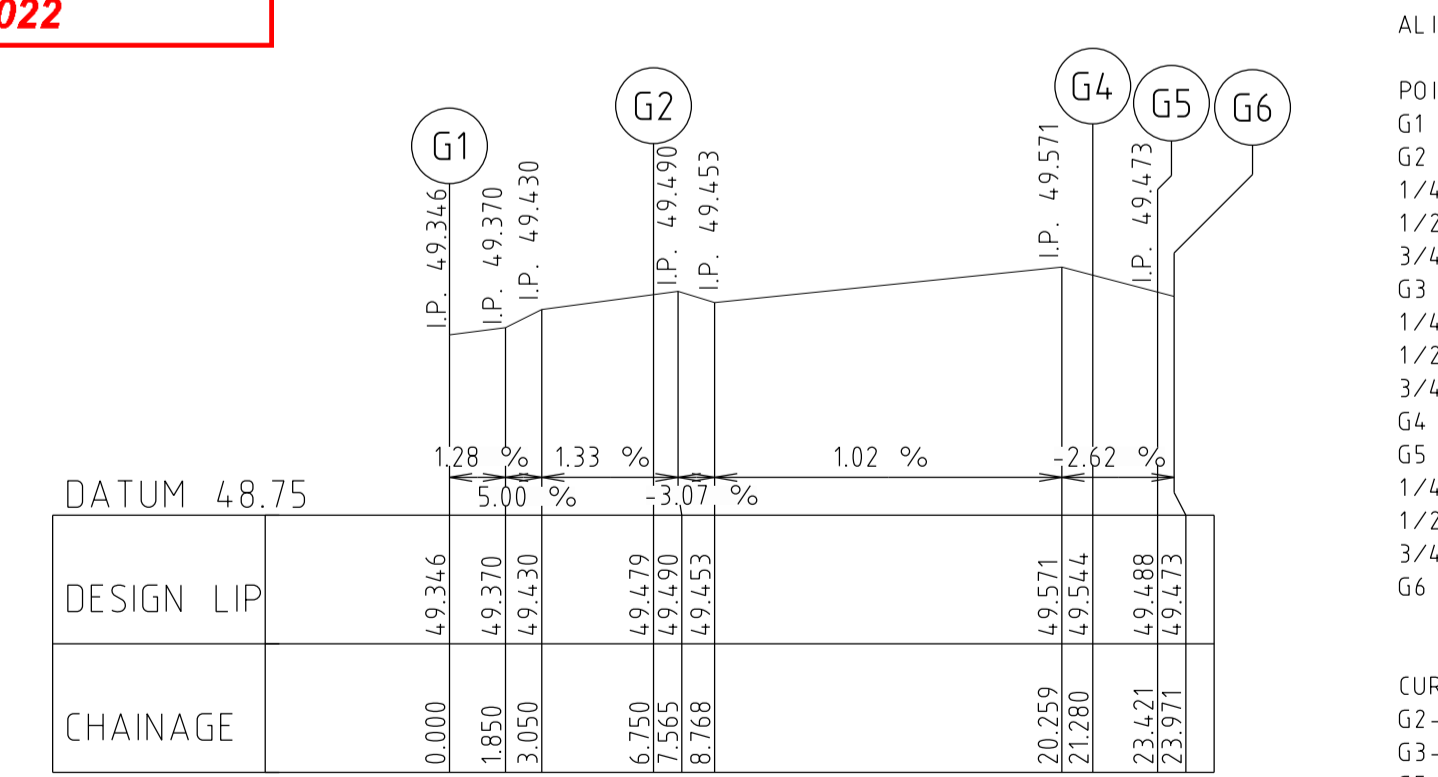
**Planning and Environment Act 1987**  
**Wyndham Planning Scheme**  
  
**Approved Plan As Required**  
**under Condition 51**  
**Permit No WYP13135/21**  
**Date 20/09/2022**



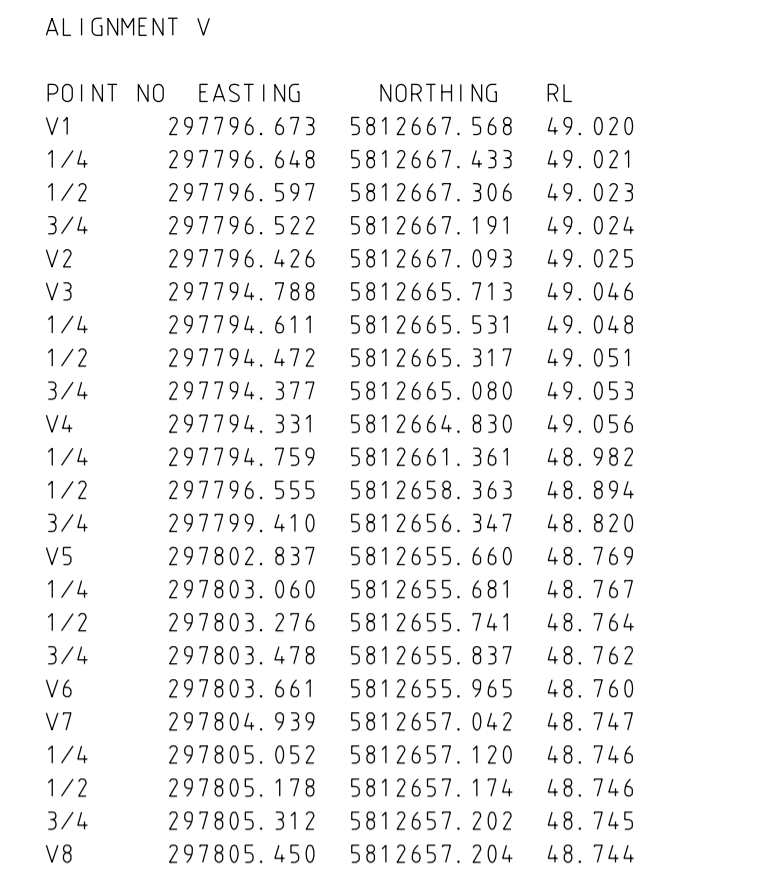
POINT NO	EASTING	NORTHING	RL
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V2	297796.648	5812667.433	49.021
V3	297796.597	5812667.306	49.023
V4	297796.522	5812667.191	49.024
V5	297796.426	5812667.093	49.025
V6	297794.788	5812665.713	49.046
V7	297794.611	5812665.531	49.048
V8	297794.472	5812665.317	49.051
V9	297794.331	5812664.830	49.056
V10	297794.759	5812661.361	48.982
V11	297796.555	5812658.363	48.894
V12	297799.410	5812656.347	48.820
V13	297802.837	5812655.660	48.769
V14	297803.060	5812655.681	48.767
V15	297803.276	5812655.741	48.764
V16	297803.478	5812655.837	48.762
V17	297803.661	5812655.965	48.760
V18	297804.939	5812657.042	48.747
V19	297805.052	5812657.120	48.746
V20	297805.178	5812657.174	48.746
V21	297805.312	5812657.202	48.745
V22	297805.450	5812657.204	48.744



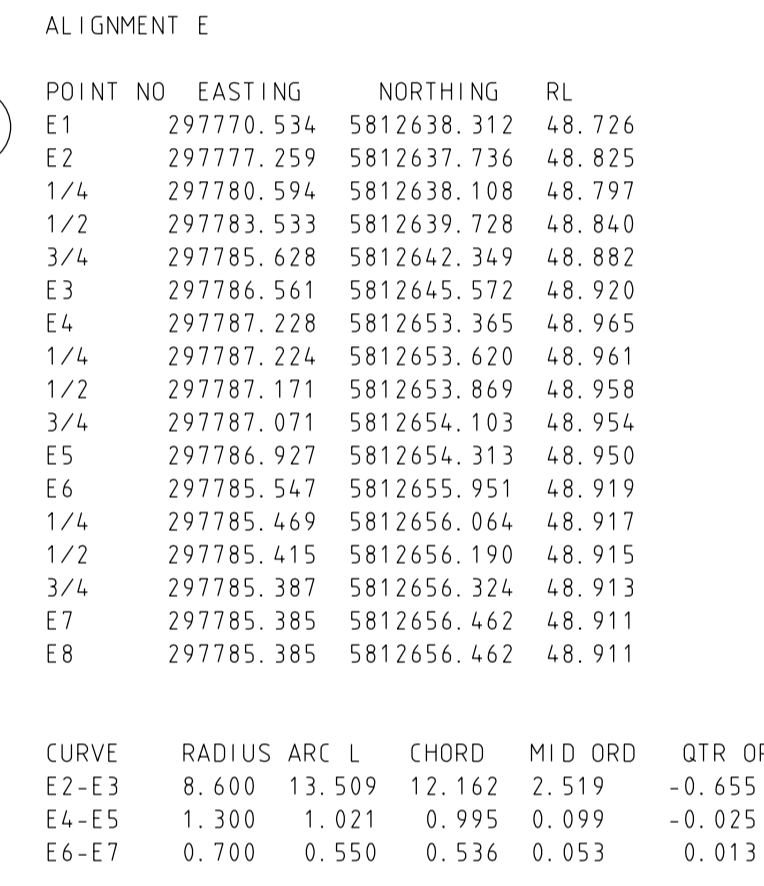
POINT NO	EASTING	NORTHING	RL
E1	297770.534	5812638.312	48.726
E2	297777.259	5812637.736	48.825
E3	297780.594	5812638.108	48.797
E4	297783.533	5812639.728	48.840
E5	297785.628	5812642.349	48.882
E6	297786.561	5812645.572	48.920
E7	297787.228	5812653.365	48.965
E8	297787.224	5812653.620	48.961
E9	297787.171	5812653.869	48.958
E10	297787.071	5812654.103	48.954
E11	297786.927	5812654.313	48.950
E12	297785.547	5812655.951	48.919
E13	297785.469	5812656.064	48.917
E14	297785.415	5812656.190	48.915
E15	297785.387	5812656.324	48.913
E16	297785.385	5812656.462	48.911
E17	297785.395	5812656.462	48.911



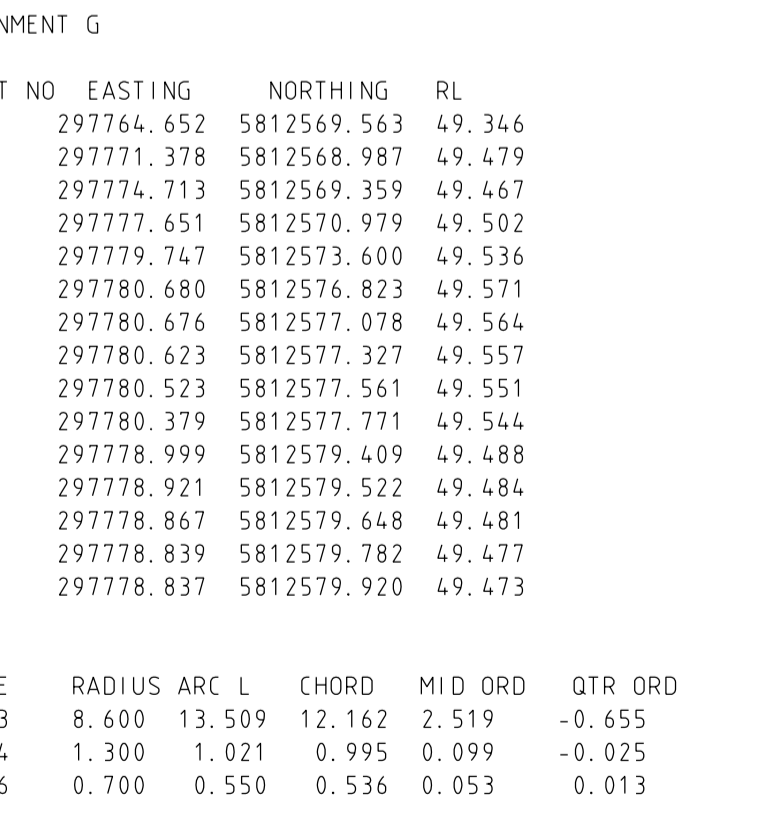
POINT NO	EASTING	NORTHING	RL
G1	297764.652	5812569.563	49.346
G2	297771.378	5812568.987	49.479
G3	297774.713	5812569.359	49.467
G4	297777.651	5812570.979	49.502
G5	297779.747	5812573.600	49.536
G6	297780.680	5812576.823	49.571
G7	297780.676	5812577.078	49.564
G8	297780.623	5812577.327	49.557
G9	297780.523	5812577.561	49.551
G10	297780.379	5812577.771	49.544
G11	297778.999	5812579.409	49.488
G12	297778.921	5812579.522	49.484
G13	297778.867	5812579.648	49.481
G14	297778.839	5812579.782	49.477
G15	297778.837	5812579.920	49.473



POINT NO	EASTING	NORTHING	RL
W1	297804.623	5812647.539	48.744
W2	297804.488	5812647.564	48.745
W3	297804.360	5812647.615	48.746
W4	297804.245	5812647.690	48.746
W5	297804.147	5812647.786	48.747
W6	297803.071	5812649.064	48.758
W7	297802.912	5812649.222	48.760
W8	297802.729	5812649.351	48.762
W9	297802.526	5812649.446	48.763
W10	297802.310	5812649.505	48.765
W11	297798.817	5812649.410	48.802
W12	297795.661	5812647.908	48.853
W13	297793.382	5812645.259	48.913
W14	297792.370	5812641.913	48.962
W15	297792.373	5812641.659	48.959
W16	297792.426	5812641.409	48.956
W17	297792.527	5812641.175	48.953
W18	297792.671	5812640.965	48.950
W19	297794.051	5812639.327	48.924
W20	297794.129	5812639.214	48.923
W21	297794.183	5812639.088	48.921
W22	297794.211	5812638.954	48.919
W23	297794.213	5812638.817	48.918

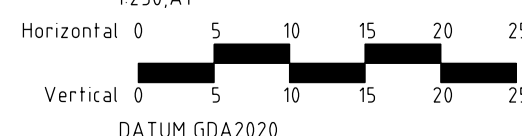


POINT NO	EASTING	NORTHING	RL
F1	297782.207	5812619.319	49.107
F2	297782.232	5812619.454	49.108
F3	297782.283	5812619.581	49.110
F4	297782.358	5812619.696	49.111
F5	297782.454	5812619.795	49.113
F6	297784.092	5812621.174	49.138
F7	297784.269	5812621.357	49.141
F8	297784.408	5812621.570	49.144
F9	297784.503	5812621.807	49.147
F10	297784.549	5812622.058	49.150
F11	297784.178	5812625.393	49.062
F12	297782.558	5812628.331	48.973
F13	297779.937	5812630.427	48.885
F14	297776.714	5812631.359	48.876
F15	297769.988	5812631.935	48.726



POINT NO	EASTING	NORTHING	RL
H1	297776.326	5812550.570	49.704
H2	297776.351	5812550.705	49.706
H3	297776.402	5812550.832	49.708
H4	297776.477	5812550.947	49.710
H5	297776.572	5812551.046	49.713
H6	297778.210	5812552.425	49.747
H7	297778.388	5812552.608	49.751
H8	297778.527	5812552.822	49.755
H9	297778.621	5812553.058	49.759
H10	297778.668	5812553.309	49.763
H11	297778.296	5812556.644	49.684
H12	297776.677	5812559.582	49.604
H13	297774.056	5812561.678	49.524
H14	297770.832	5812562.611	49.510
H15	297764.107	5812563.186	49.346

Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22

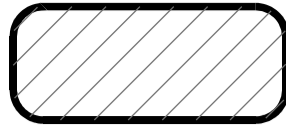


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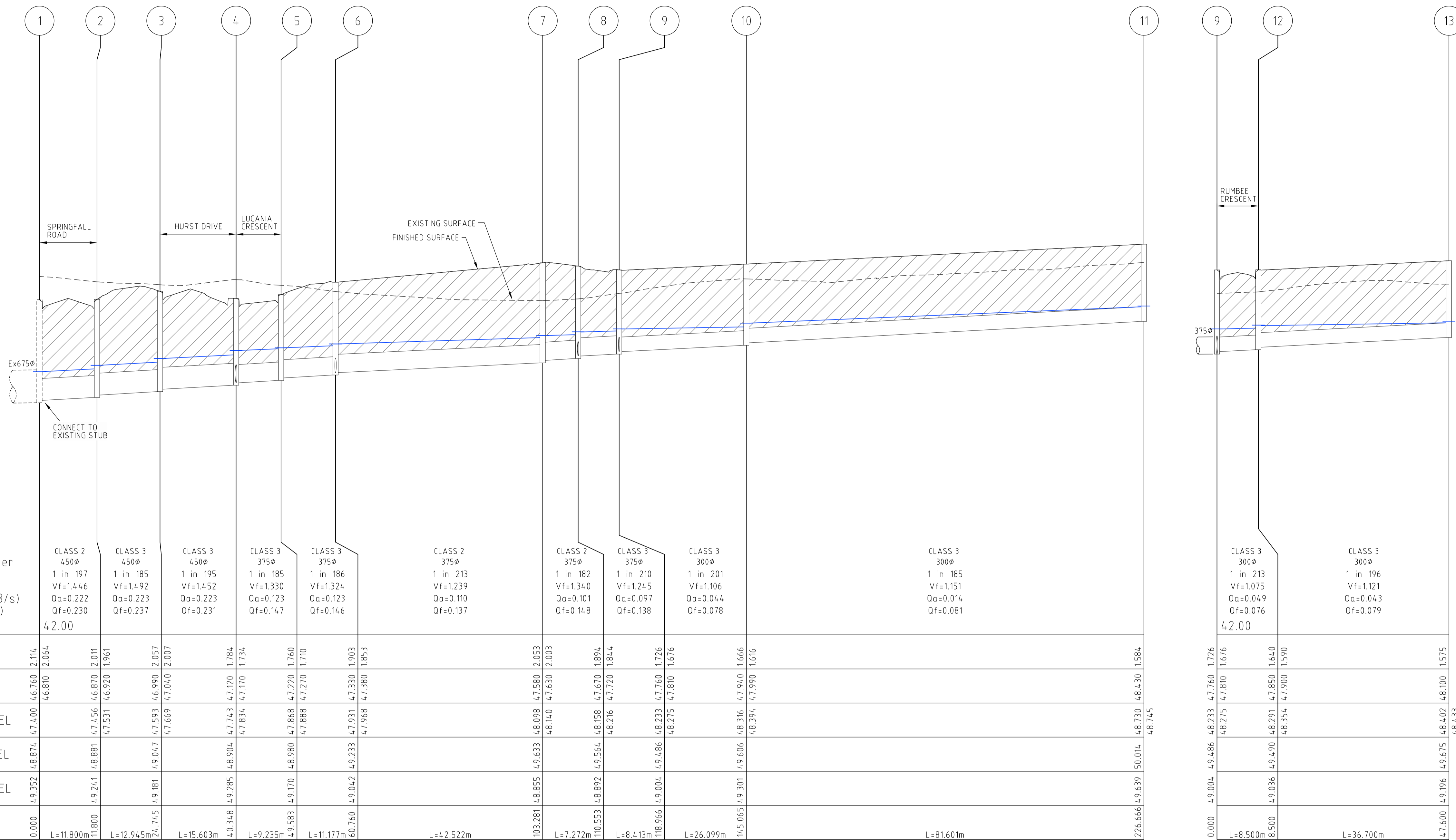
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**Harlow**  
 T A R N E I T  
 Designed  
**R. WEINBER**  
 Authorised  
**M. READMAN**  
 Checked  
**M. READMAN**  
 Date  
**04-07-2022**

**HARLOW ESTATE**  
**STAGE 2**  
**INTERSECTION DETAILS**  
 SIG GROUP  
 WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No **309438R08** Rev **0**

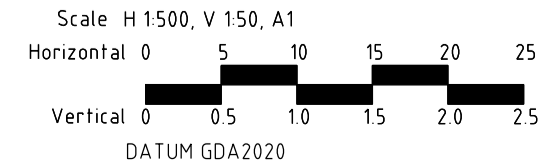


CRUSHED ROCK BACKFILL  
20mm NOM SIZE Class 3 FCR Backfill  
(98%  
Modified Compaction) in accordance with  
Wyndham Standard Drawing SD6-10A



Planning and Environment Act 1987  
Wyndham Planning Scheme  
  
Approved Plan As Required  
under Condition 51  
Permit No WYP13135/21  
Date 20/09/2022

Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22

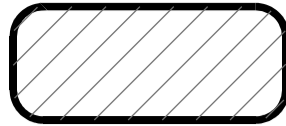


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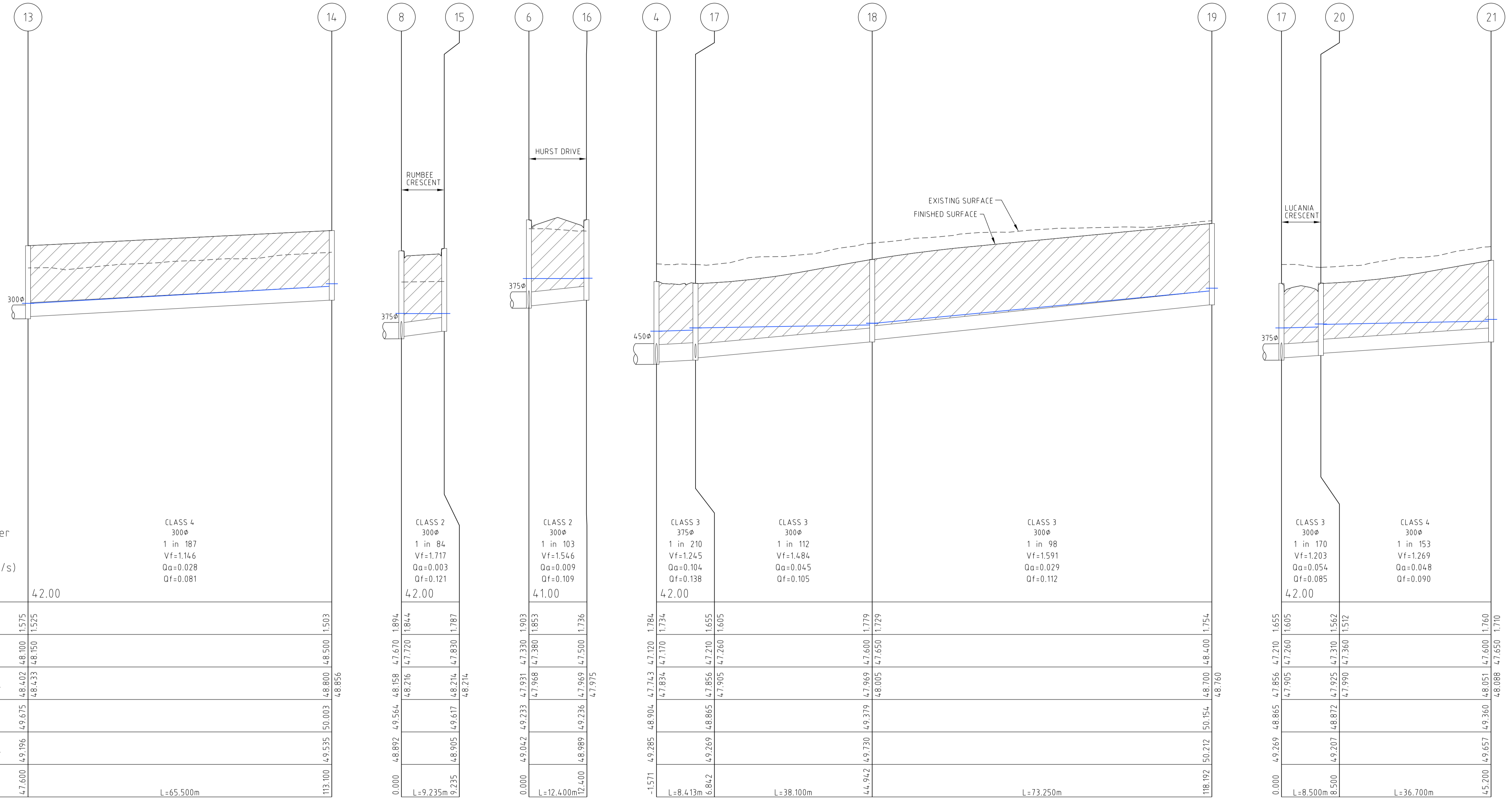
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Harlow  
T A R N E I T  
Designed  
R. WEINBER  
Checked  
M. READMAN  
Authorised  
M. READMAN  
Date  
04-07-2022

HARLOW ESTATE  
STAGE 2  
DRAINAGE LONG SECTION  
SHEET 1 OF 3  
SIG GROUP  
WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No 309438R09 Rev 0



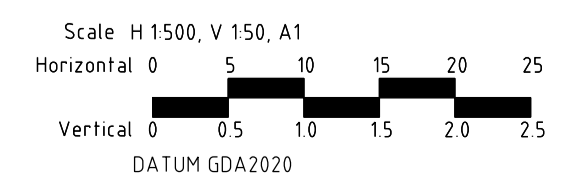
CRUSHED ROCK BACKFILL  
 20mm NOM SIZE Class 3 FCR Backfill  
 (98%  
 Modified Compaction) in accordance with  
 Wyndham Standard Drawing SD6-10A



Parameter	Station 13-14	Station 8-15	Station 6-16	Station 4-17	Station 18-19	Station 17-20	Station 21
Pipe Diameter	300φ	300φ	300φ	375φ	300φ	300φ	300φ
Pipe Grade	1 in 187	1 in 84	1 in 103	1 in 210	1 in 112	1 in 98	1 in 153
Vf (m/s)	1.146	1.717	1.546	1.245	1.591	1.203	1.269
Qactual (m3/s)	0.028	0.003	0.009	0.104	0.045	0.054	0.048
Qfull (m3/s)	0.081	0.121	0.109	0.138	0.112	0.085	0.090
DATUM R.L.	42.00	42.00	41.00	42.00	42.00	42.00	42.00
DEPTH TO INVERT	1.575	1.894	1.903	1.784	1.779	1.655	1.760
DESIGN INVERT LEVEL	48.100	47.720	47.360	47.720	47.600	47.730	47.600
HYDRAULIC GRADE LEVEL	48.402	48.150	47.931	47.834	47.969	47.925	48.051
FINISHED SURFACE LEVEL	48.433	48.216	47.968	47.834	47.905	47.990	48.088
EXISTING SURFACE LEVEL	49.196	49.564	49.233	49.285	49.730	49.207	49.657
CHAINAGE	4.7.600	0.000	0.000	-1.571	4.4.942	118.192	4.5.200
Length (L)	65.500m	9.235m	12.400m	8.413m	38.100m	73.250m	36.700m

**Planning and Environment Act 1987**  
**Wyndham Planning Scheme**  
**Approved Plan As Required**  
**under Condition 51**  
**Permit No WYP13135/21**  
**Date 20/09/2022**

Rev	Description	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22
	Amendments	Approved	Date

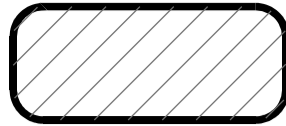


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**Harlow**  
 T A R N E I T  
 Designed  
**R. WEINBER**  
 Authorised  
**M. READMAN**  
 Checked  
**M. READMAN**  
 Date  
**04-07-2022**

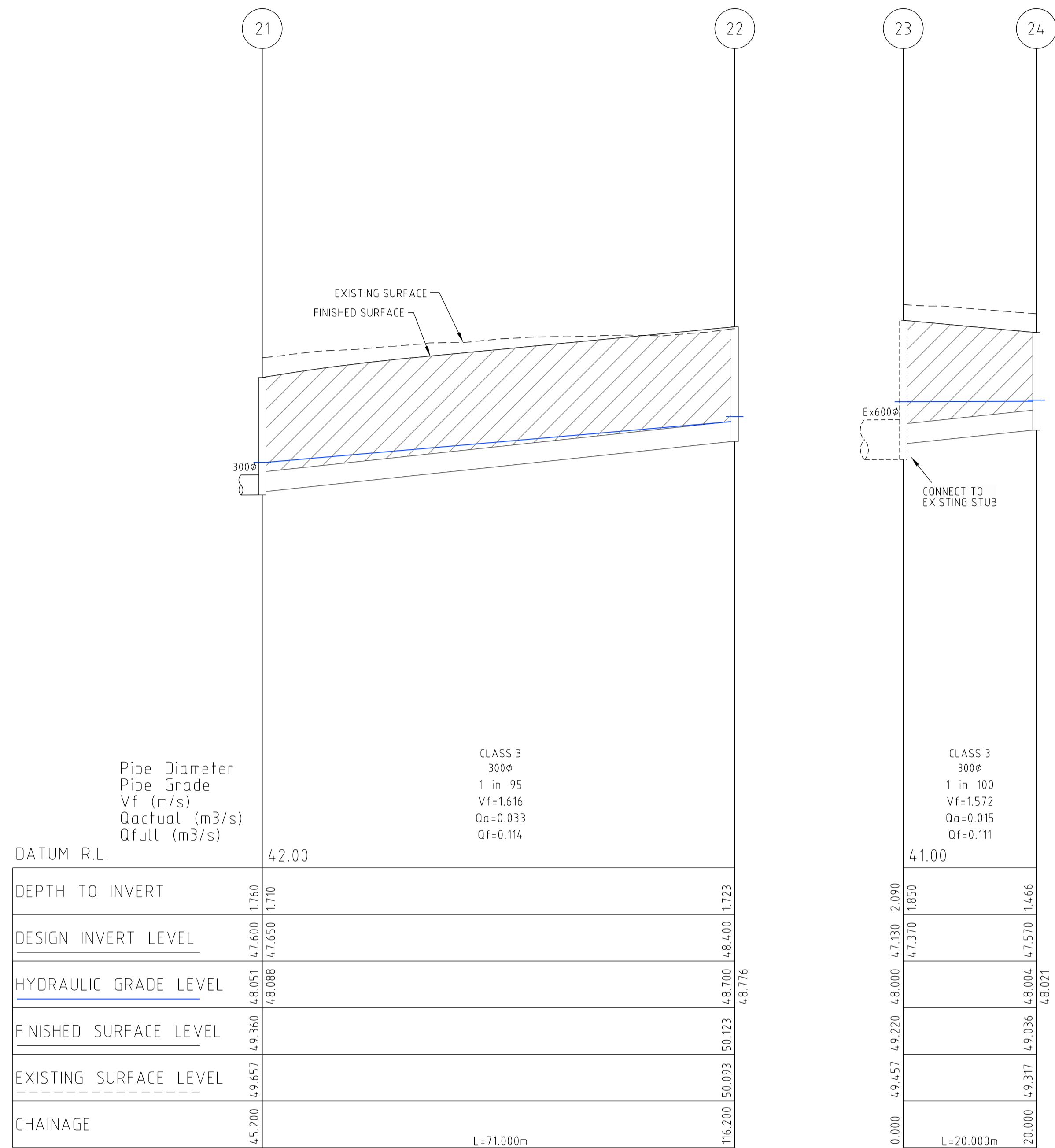
**HARLOW ESTATE**  
**STAGE 2**  
**DRAINAGE LONG SECTION**  
**SHEET 2 OF 3**  
 SIG GROUP  
 WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No **309438R10** Rev **0**



CRUSHED ROCK BACKFILL  
20mm NOM SIZE Class 3 FCR Backfill  
(98%  
Modified Compaction) in accordance with  
Wyndham Standard Drawing SD6-10A

Planning and Environment Act 1987  
Wyndham Planning Scheme

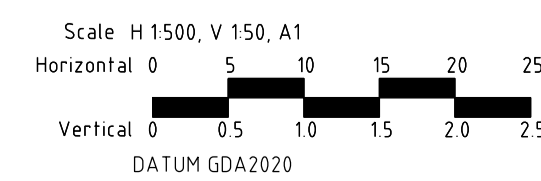
Approved Plan As Required  
under Condition 51  
Permit No WYP13135/21  
Date 20/09/2022



### DRAINAGE PIT SCHEDULE

NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		LENGTH	WIDTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1	EXISTING SIDE ENTRY PIT			450	46.810			48.874	2.114	CONNECT TO EXISTING 450 DIA STUB
2	SIDE ENTRY PIT GRATED	900	900	450	46.920	450	46.870	48.881	2.011	REFER DRAWING - EDCM 601 & 605
3	SIDE ENTRY PIT GRATED	900	900	450	47.040	450	46.990	49.047	2.057	REFER DRAWING - EDCM 601 & 605
4	SIDE ENTRY PIT GRATED	900	900	375	47.170	450	47.120	48.904	1.784	REFER DRAWING - EDCM 601 & 605 (PROVIDE CLASS D HEAVY DUTY COVER)
				375	47.170					
5	SIDE ENTRY PIT GRATED	900	600	375	47.270	375	47.220	48.980	1.760	REFER DRAWING - EDCM 601 & 605 (PROVIDE CLASS D HEAVY DUTY COVER)
6	SIDE ENTRY PIT GRATED	900	600	375	47.380	375	47.330	49.233	1.903	REFER DRAWING - EDCM 601 & 605
				300	47.380					PROVIDE CLASS D HEAVY DUTY COVER
7	JUNCTION PIT	900	600	375	47.630	375	47.580	49.633	2.053	REFER DRAWING - EDCM 605
8	SIDE ENTRY PIT GRATED	900	600	375	47.720	375	47.670	49.564	1.894	REFER DRAWING - EDCM 601 & 605 (PROVIDE CLASS D HEAVY DUTY COVER)
				300	47.720					
9	SIDE ENTRY PIT GRATED	900	600	300	47.810	375	47.760	49.486	1.726	REFER DRAWING - EDCM 601 & 605
				300	47.810					
10	SIDE ENTRY PIT GRATED	900	600	300	47.990	300	47.940	49.606	1.666	REFER DRAWING - EDCM 601 & 605
11	SIDE ENTRY PIT GRATED	900	600			300	48.430	50.014	1.584	REFER DRAWING - EDCM 601 & 605
12	SIDE ENTRY PIT GRATED	900	600	300	47.900	300	47.850	49.490	1.640	REFER DRAWING - EDCM 601 & 605
13	SIDE ENTRY PIT GRATED	900	600	300	48.150	300	48.100	49.675	1.575	REFER DRAWING - EDCM 601 & 605
14	SIDE ENTRY PIT GRATED	900	600			300	48.500	50.003	1.503	REFER DRAWING - EDCM 601 & 605
15	SIDE ENTRY PIT GRATED	900	600			300	47.830	49.617	1.787	REFER DRAWING - EDCM 601 & 605 (PROVIDE CLASS D HEAVY DUTY COVER)
16	SIDE ENTRY PIT GRATED	900	600			300	47.500	49.236	1.736	REFER DRAWING - EDCM 601 & 605
17	SIDE ENTRY PIT GRATED	900	600	300	47.260	375	47.210	48.865	1.655	REFER DRAWING - EDCM 601 & 605
				300	47.260					
18	SIDE ENTRY PIT GRATED	900	600	300	47.650	300	47.600	49.379	1.779	REFER DRAWING - EDCM 601 & 605
19	SIDE ENTRY PIT GRATED	900	600			300	48.400	50.154	1.754	REFER DRAWING - EDCM 601 & 605
20	SIDE ENTRY PIT GRATED	900	600	300	47.360	300	47.310	48.872	1.562	REFER DRAWING - EDCM 601 & 605
21	SIDE ENTRY PIT GRATED	900	600	300	47.650	300	47.600	49.360	1.760	REFER DRAWING - EDCM 601 & 605
22	SIDE ENTRY PIT GRATED	900	600			300	48.400	50.123	1.723	REFER DRAWING - EDCM 601 & 605
23	EXISTING JUNCTION PIT	900	600	300	47.370			49.220	2.090	CONNECT TO EXISTING 450 DIA STUB
24	SIDE ENTRY PIT GRATED	900	600			300	47.570	49.036	1.466	REFER DRAWING - EDCM 601 & 605

Rev	Amendments	Approved	Date
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Harlow  
T A R N E I T  
Designed R. WEINBER  
Checked M. READMAN  
Authorised M. READMAN  
Date 04-07-2022

HARLOW ESTATE  
STAGE 2  
DRAINAGE LONG SECTION SHEET - 3 OF 3  
& PIT SCHEDULE  
SIG GROUP  
WYNDHAM CITY COUNCIL  
CONSTRUCTION  
Drg No 309438R11  
Rev 0

DESIGN PAVEMENT PROFILE FOR CONNECTOR STREET

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		CONNECTOR STREET
A	ASPHALT WEARING COURSE VicRoads Size 14mm Type H, Class 320 binder	40
B	ASPHALT INTERMEDIATE COURSE VicRoads Size 20mm Type SI, Class 320 binder	75
C	ASPHALT BASE COURSE VicRoads Size 20mm Type SF, Class 320 binder	75
D	BITUMINOUS PRIME	nominal
UPPER PAVEMENT TOTAL		190
E	BASE VicRoads 20mm Class 2 3% Cement Treated Crushed Rock	100
F	SUBBASE VicRoads 20mm Class 3 Crushed Rock or equivalent	100
H	CAPPING LAYER Type A material - Properties (CBR >10%, Swell <15 %, Permeability < 5x10 <sup>-9</sup> m/s To be Compacted in Two Layers	150
I	CONSTRUCTION LAYER Type A material - Properties (CBR >10%, Swell <15 %, Permeability < 5x10 <sup>-9</sup> m/s	150
TOTAL PAVEMENT DEPTH		540

NOTE: CONNECTOR STREET  
Subgrade = Clay with design CBR of 2%.

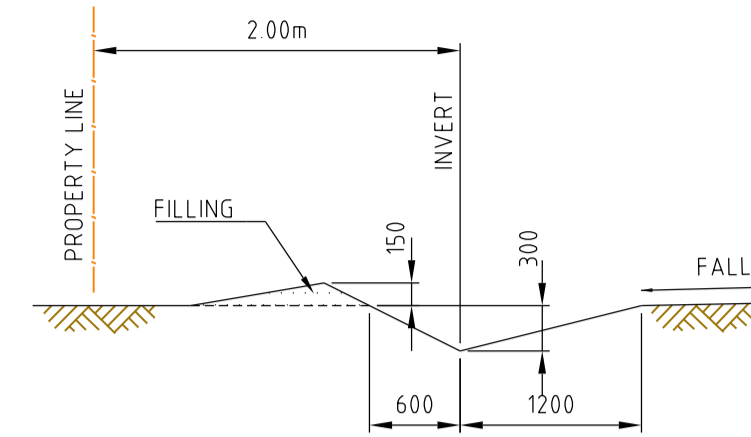
DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 1

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		ACCESS STREET LVL 1
A	ASPHALT WEARING COURSE VicRoads Size 10 Type N, Class 320 binder	30
B	ASPHALT BASE COURSE VicRoads Size 10 Type N, Class 320 binder	30
C	PRIMECOAT Prime & 10mm SAMI (S 18RF)	10
D	BASE VicRoads 20mm Class 2 Fine Crushed Rock or Equivalent	130
UPPER PAVEMENT TOTAL		200
E	UPPER SUBBASE VicRoads Class 3 Crushed Rock or Equivalent	120
F	LOWER SUBBASE VicRoads Class 4 Crushed Rock or Equivalent	120
G	CAPPING LAYER Type A material - Properties (CBR >10%, Swell <15 %, Permeability < 5x10 <sup>-9</sup> m/s To be Compacted in Two Layers	150
H	CONSTRUCTION LAYER Type A material - Properties (CBR >10%, Swell <15 %, Permeability < 5x10 <sup>-9</sup> m/s To be Compacted in Two Layers	150
TOTAL PAVEMENT DEPTH		590

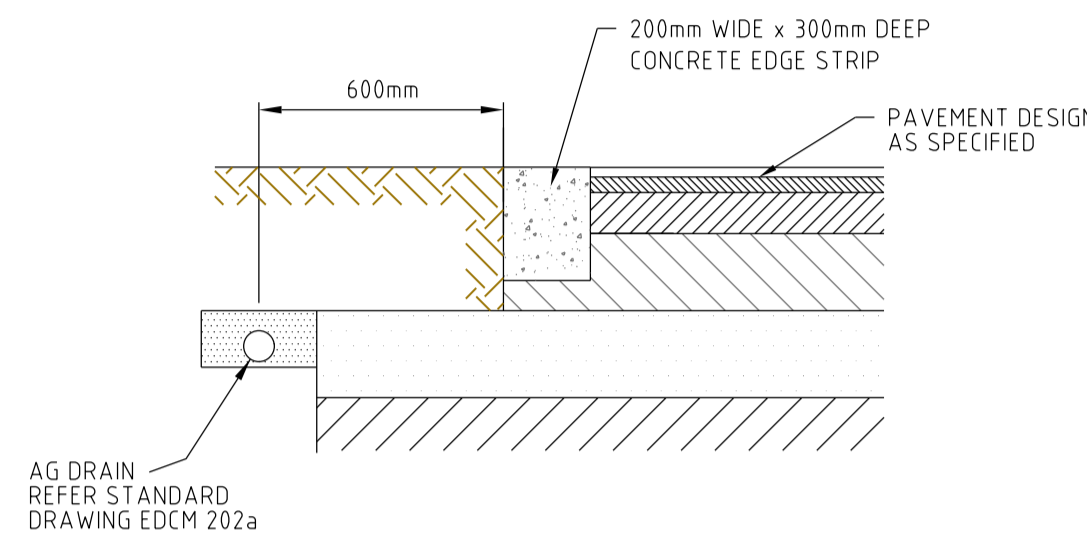
NOTE: CONNECTOR STREET  
Subgrade = Clay with design CBR of 2%.

ROAD TYPE DESIGNATIONS

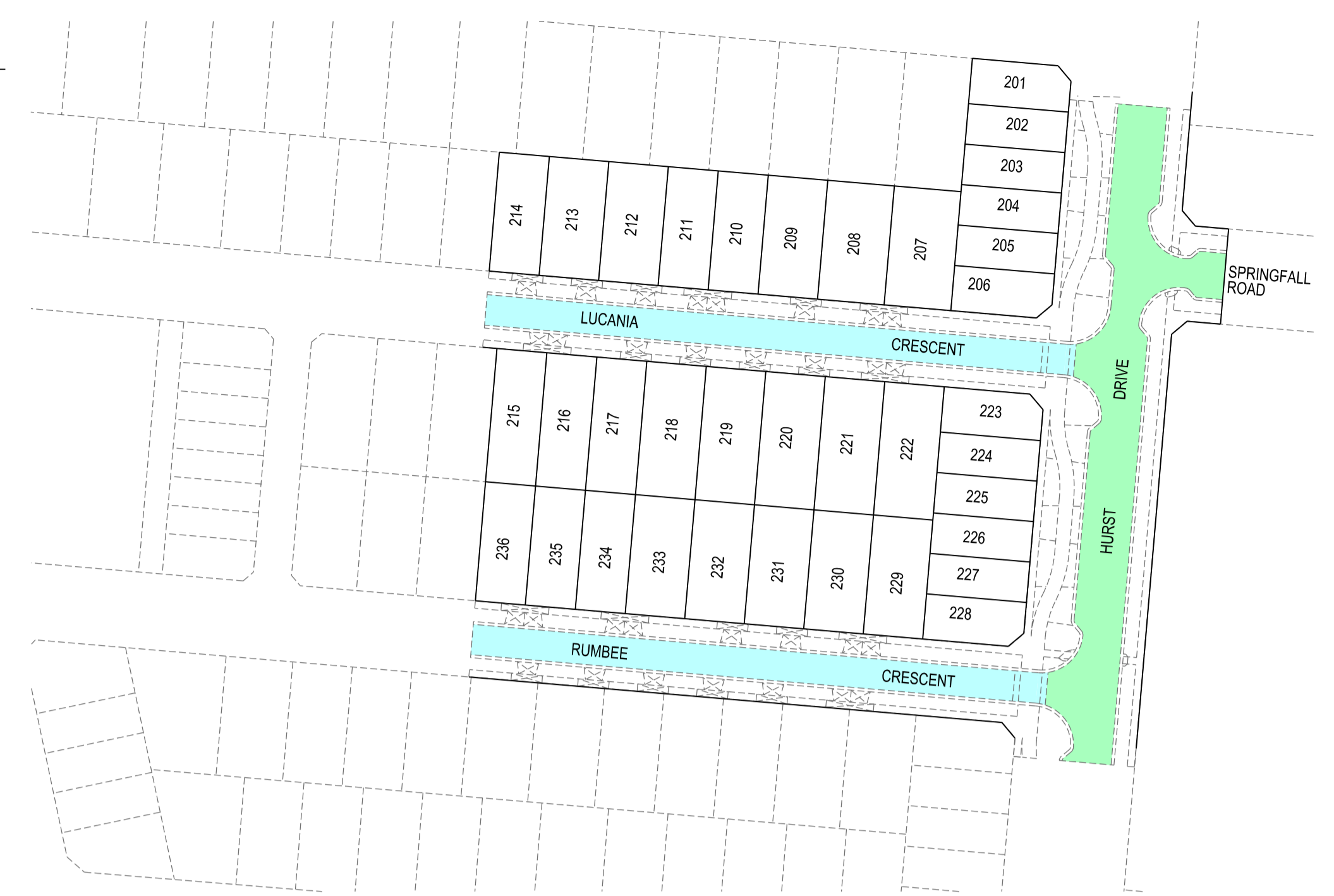
ROAD NAME	ROAD PAVEMENT TYPE
HURST DRIVE	CONNECTOR STREET
SPRINGFALL ROAD	CONNECTOR STREET
LUCANIA	ACCESS STREET LEVEL 1
RUMBEE CRESCENT	ACCESS STREET LEVEL 1



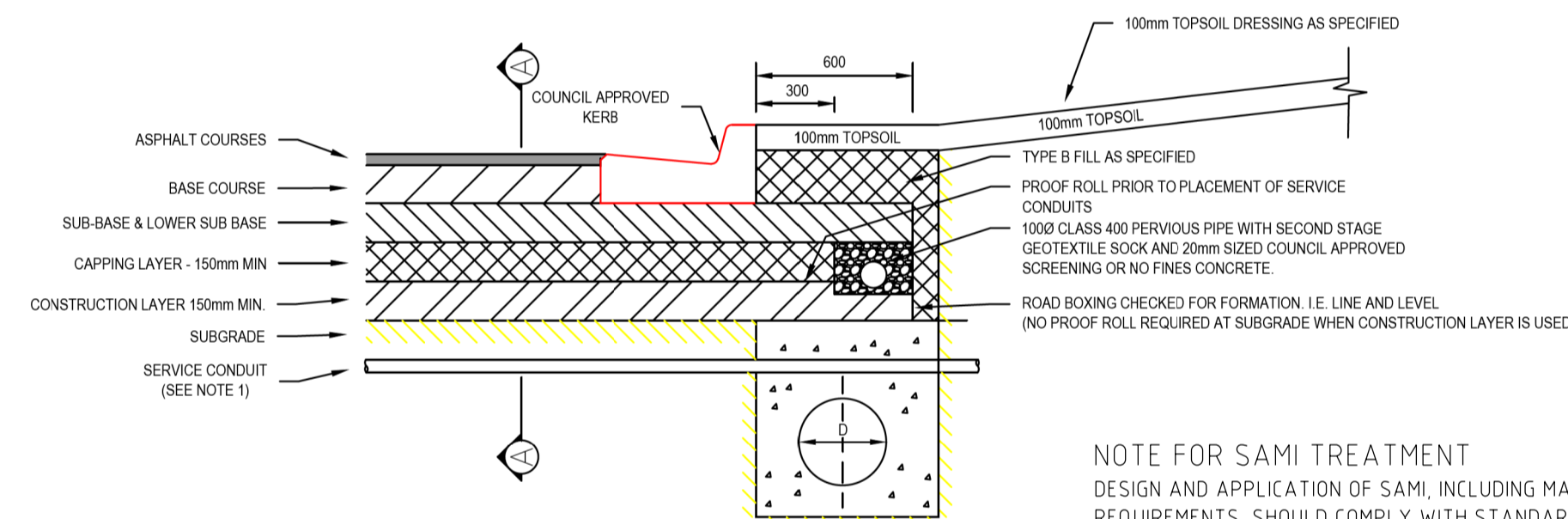
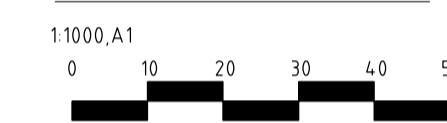
TYPICAL CATCH DRAIN SECTION  
N.T.S.



LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL



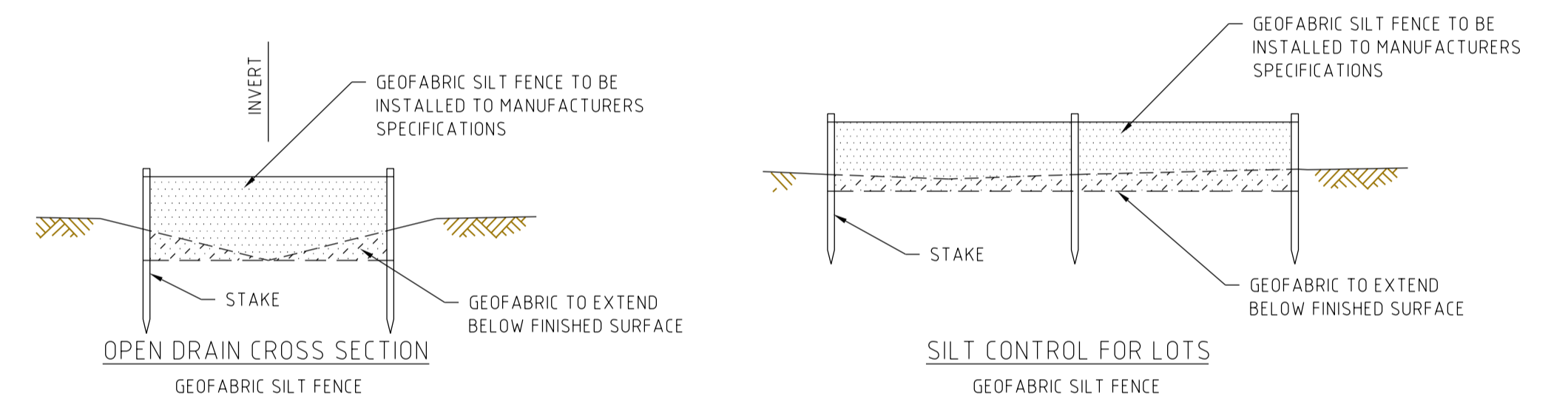
PAVEMENT PLAN



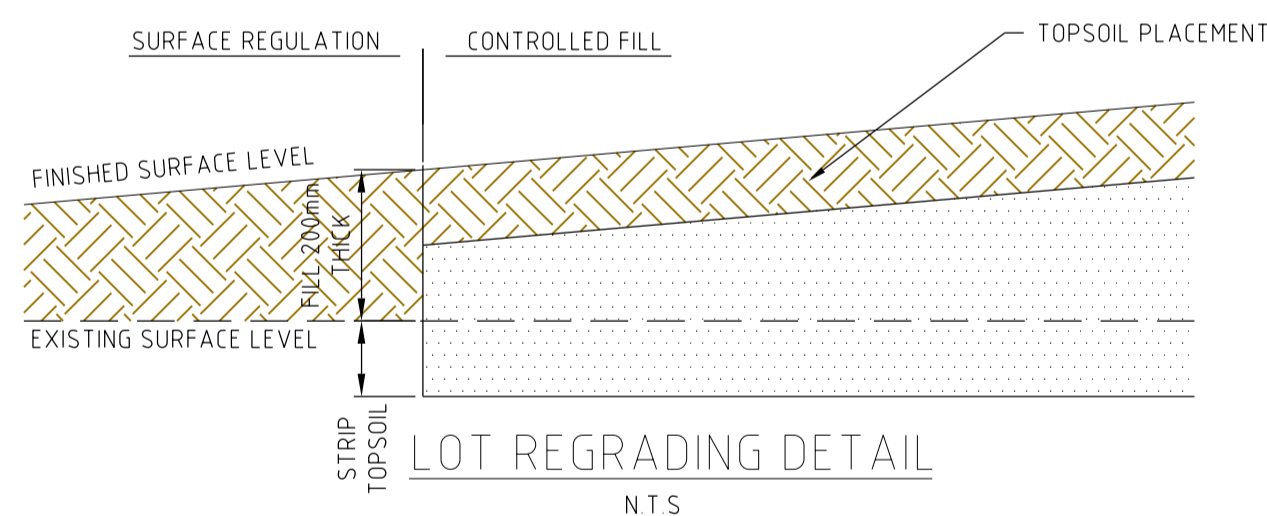
PAVEMENT MAKEUP  
N.T.S.

REFER STANDARD DRAWING EDM 202a

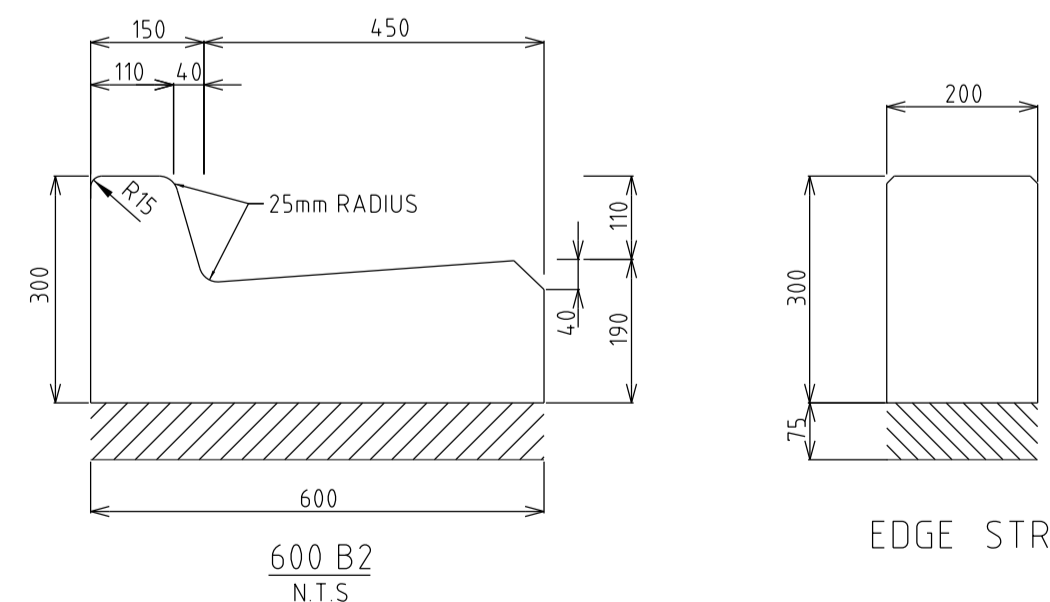
NOTE FOR SAMI TREATMENT  
DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL REQUIREMENTS, SHOULD COMPLY WITH STANDARD SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS SECTION 4.08 AND THE CURRENT AUSTRROADS SPRAYED SEAL DESIGN METHOD.



SILT CONTROL OPTIONS  
NOT TO SCALE



LOT REGRADING DETAIL  
N.T.S.



STANDARD KERB PROFILES  
NOT TO SCALE

- NOTES:
- ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS
  - ALL KERBS AND KERB & CHANNEL TO HAVE 190mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL

GENERAL NOTES:

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.

- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA - "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.

PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY GROUND SCIENCE PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF COFFEY SERVICES AUSTRALIA PTY LTD

THE DESIGN HAS BEEN EXTRACTED FROM THE COFFEY SERVICES AUSTRALIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS". THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED. A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO GROUND SCIENCE PTY LTD AND SENT TO SPIIRE.

**Planning and Environment Act 1987  
Wyndham Planning Scheme**

**Approved Plan As Required  
under Condition 51  
Permit No WYP13135/21  
Date 20/09/2022**

NOT TO SCALE



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Designed  
R. WEINBER  
Authorised  
M. READMAN

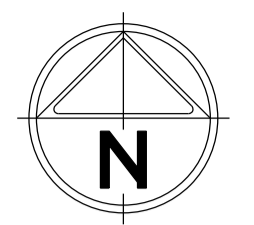
Checked  
M. READMAN  
Date  
04-07-2022

**HARLOW ESTATE  
STAGE 2  
PAVEMENT PLAN AND TYPICAL DETAILS**

SIG GROUP  
WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No **309438R12** Rev **0**

Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



FUTURE STAGE 3

EXISTING STAGE 1

FUTURE STAGE 3

FUTURE STAGE 4

**BIKE PATH CONTRASTING SURFACE COLOUR**  
 FOR ENHANCED VISIBILITY AT ALL ROAD CROSSINGS AND DRIVEWAY CROSSINGS AS SHOWN USE GREEN EPOXY MODIFIED ACEYLIC COATING WITH A NON SLIP SURFACE.

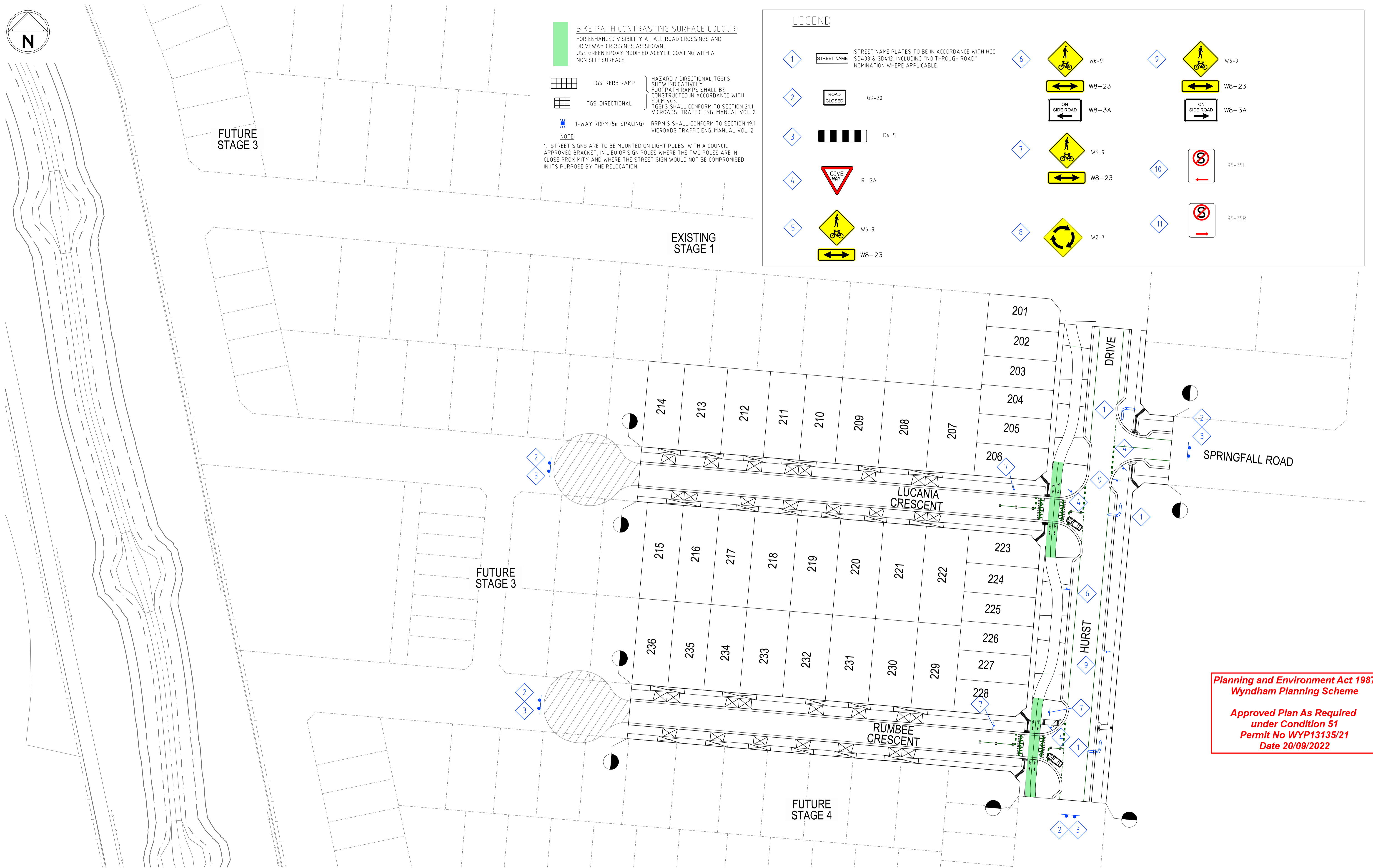
TGSI KERB RAMP } HAZARD / DIRECTIONAL TGSI'S SHOW INDICATIVELY  
 FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDM 443.  
 TGSI DIRECTIONAL } TGSI'S SHALL CONFORM TO SECTION 211 VICROADS TRAFFIC ENG MANUAL VOL 2  
 RRPM'S SHALL CONFORM TO SECTION 19.1 VICROADS TRAFFIC ENG MANUAL VOL 2

1-WAY RRPM (5m SPACING)

**NOTE:**  
 1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

**LEGEND**

- 1 [Symbol] STREET NAME PLATES TO BE IN ACCORDANCE WITH HCC SD4-08 & SD4-12, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.
- 2 [Symbol] ROAD CLOSED G9-20
- 3 [Symbol] D4-5
- 4 [Symbol] GIVE WAY R1-2A
- 5 [Symbol] W6-9
- 6 [Symbol] W6-9
- 7 [Symbol] W6-9
- 8 [Symbol] W2-7
- 9 [Symbol] W6-9
- 10 [Symbol] R5-35L
- 11 [Symbol] R5-35R



Planning and Environment Act 1987  
 Wyndham Planning Scheme  
 Approved Plan As Required  
 under Condition 51  
 Permit No WYP13135/21  
 Date 20/09/2022

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 R. WEINBER  
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 M. READMAN

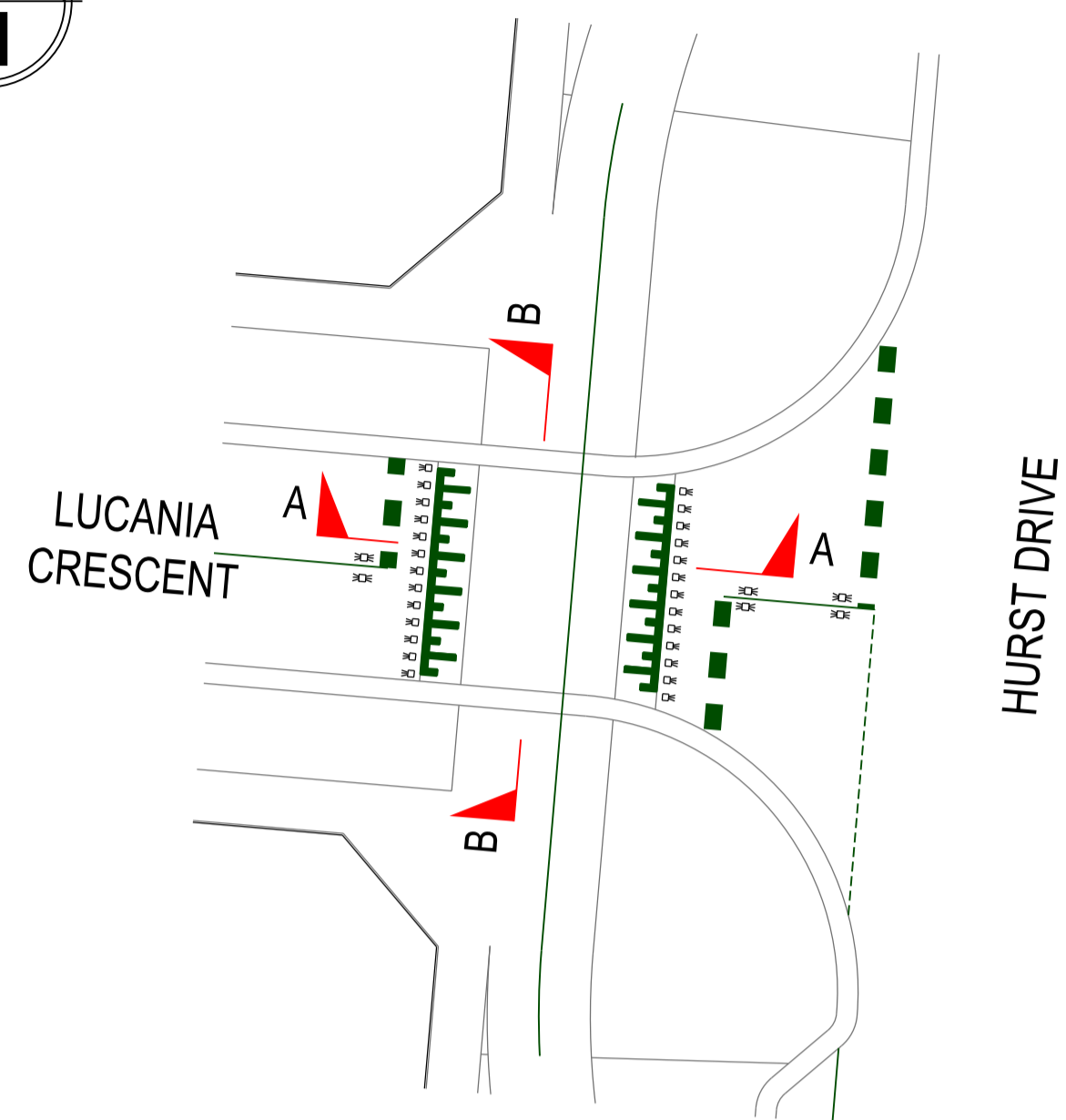
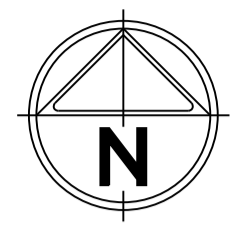
Checked  
 M. READMAN  
 Date  
 04-07-2022

**HARLOW ESTATE  
 STAGE 2  
 SIGNAGE AND LINEMARKING**

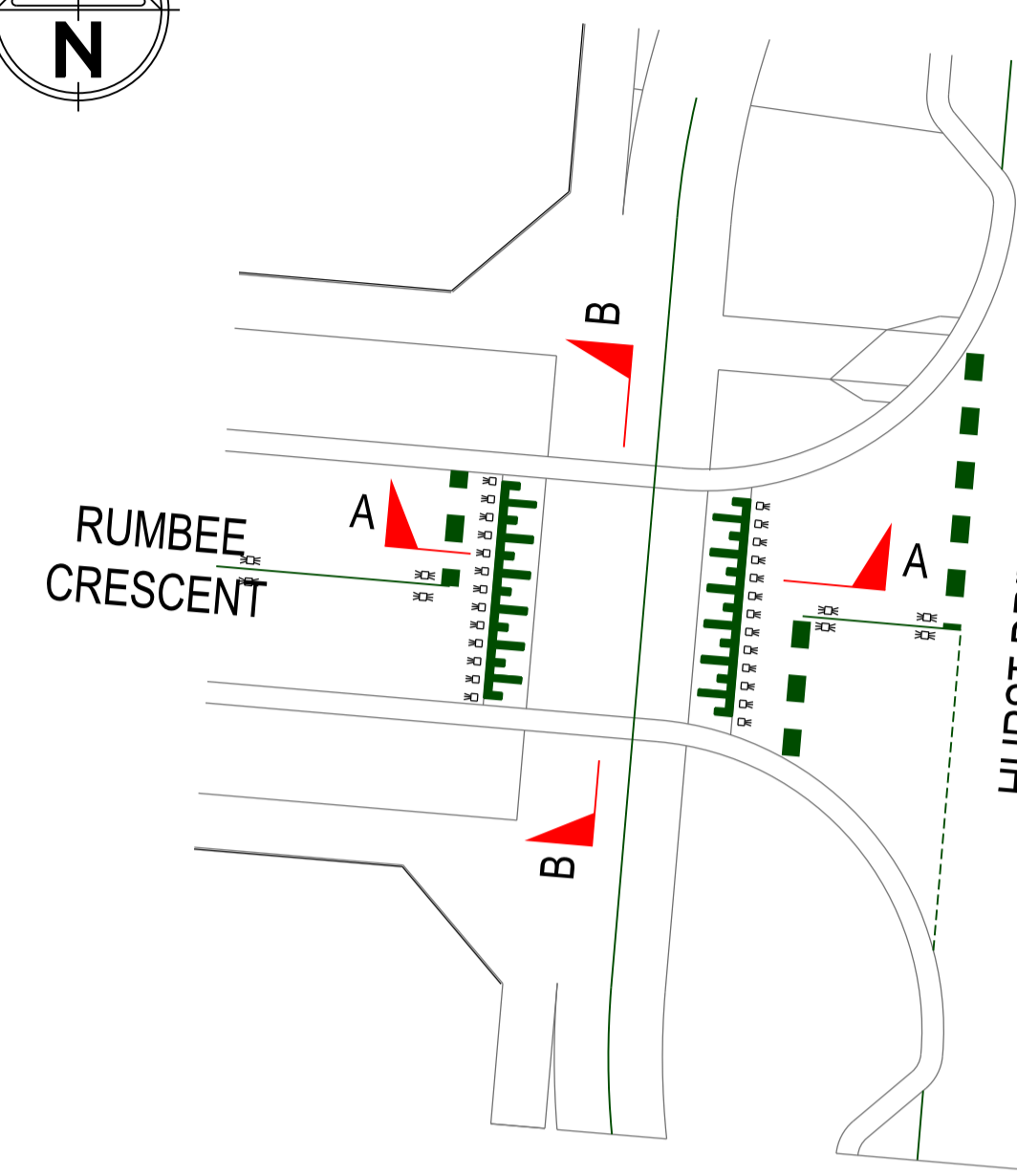
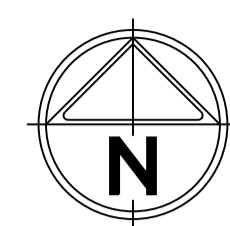
SIG GROUP  
 WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No 309438R13 Rev 0

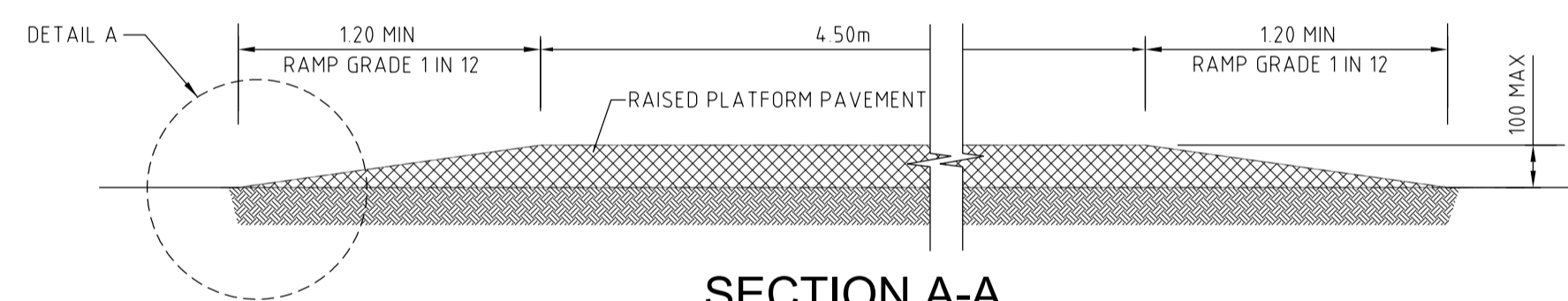




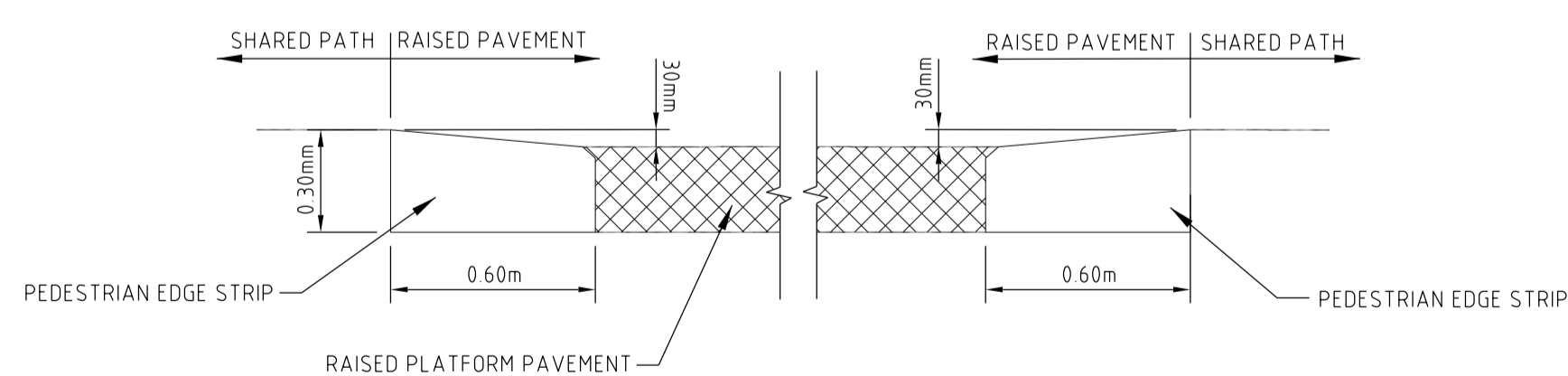
PLAN  
FLAT TOP ROAD HUMP  
(LUCANIA CRESCENT)  
SCALE 1 TO 200



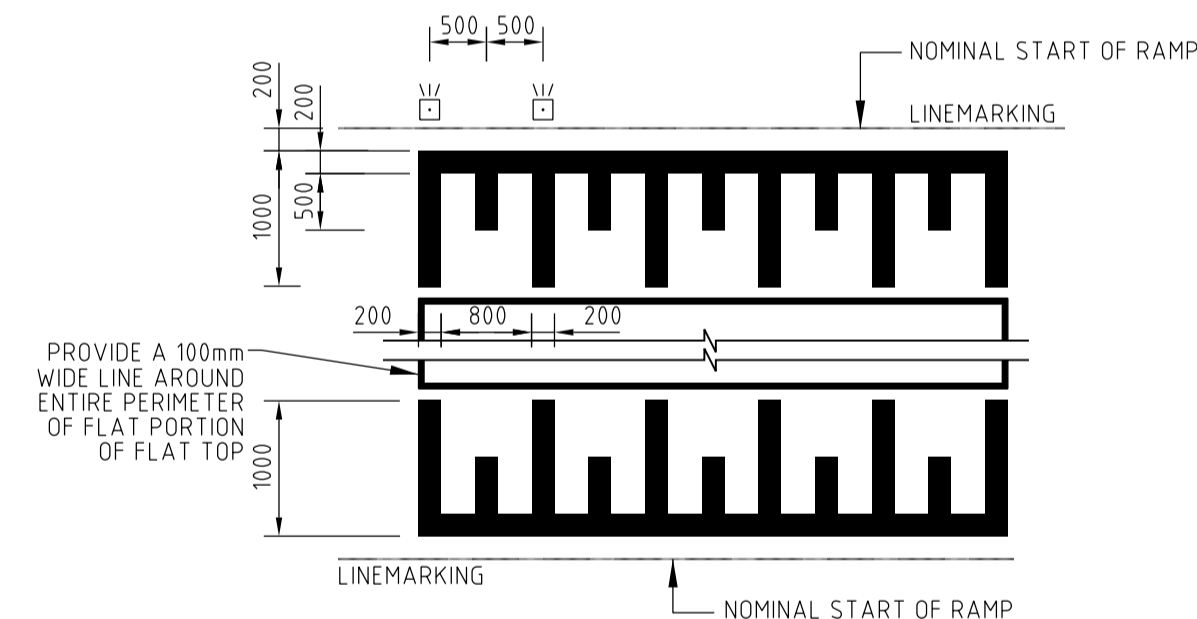
PLAN  
FLAT TOP ROAD HUMP  
(RUMBEE CRESCENT)  
SCALE 1 TO 200



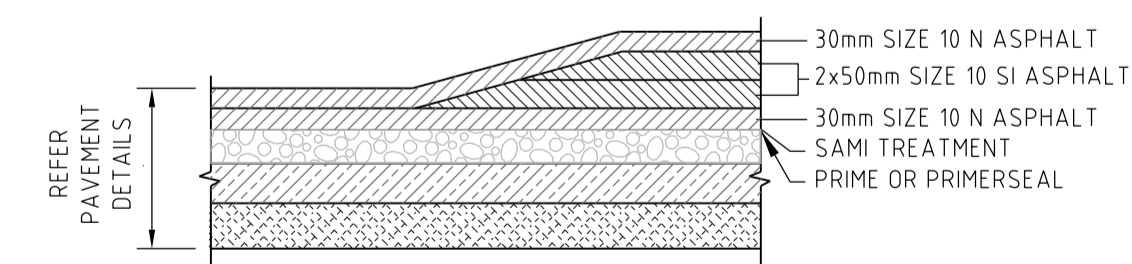
SECTION A-A  
FLAT TOP RAISED PAVEMENT  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE



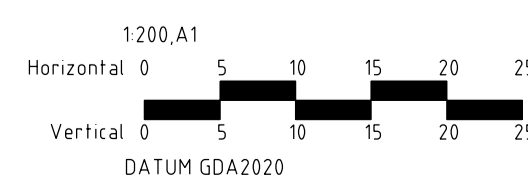
LINEMARKING DETAILS  
NOT TO SCALE



DETAIL A  
RAISED PLATFORM PROFILE  
NOT TO SCALE

**Planning and Environment Act 1987**  
**Wyndham Planning Scheme**  
  
**Approved Plan As Required**  
**under Condition 51**  
**Permit No WYP13135/21**  
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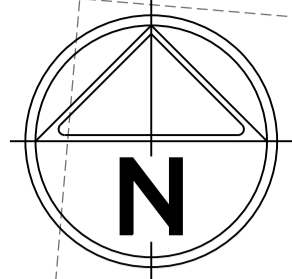
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**Harlow**  
T A R N E I T  
Designed  
R. WEINBER  
Authorised  
M. READMAN

Checked  
M. READMAN  
Date  
04-07-2022

**HARLOW ESTATE**  
**STAGE 2**  
**RAISED PAVEMENT DETAILS**  
SIG GROUP  
WYNDHAM CITY COUNCIL  
**CONSTRUCTION** Drg No  
**309438R14** Rev  
**0**





AREA = 1.75 Ha  
Lots = 1.47 Ha  
Roads = 0.28 Ha

AREA = 1.24 Ha  
Lots = 0.96 Ha  
Roads = 0.28 Ha

AREA = 0.78 Ha  
Lots = 0.57 Ha  
Roads = 0.21 Ha

AREA = 0.77 Ha  
Lots = 0.57 Ha  
Roads = 0.20 Ha

AREA = 0.20 Ha  
Roads = 0.20 Ha

AREA = 0.50 Ha  
Lots = 0.17 Ha  
Roads = 0.33 Ha

AREA = 0.14 Ha  
Lots = 0.05 Ha  
Roads = 0.09 Ha

AREA = 0.37 Ha  
Lots = 0.11 Ha  
Roads = 0.27 Ha

### 100YR OVERLAND FLOW COMPUTATIONS

Project: Harlow Estate - Stage 1 & 2  
Project Number: 309437  
Version: P1

Road Name	Hurst Drive	Ansley Crescent	Stillwell Street	Hurst Drive	Runbee Crescent	Hervey Crescent	Hurst Drive	School Road
Section:	Section AA	Section BB	Section CC	Section DD	Section EE	Section FF	Section GG	Section HH
<b>Catchment Areas:</b>								
Lots (ha)	0.00	1.47	0.96	2.60	0.57	0.57	1.25	3.90
Road Reserves (ha)	0.20	0.28	0.28	1.09	0.20	0.21	0.68	1.86
Reserves (ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Totals (ha)	0.20	1.75	1.24	3.69	0.77	0.78	1.93	5.76
<b>Minor Flow (5 Year):</b>								
Equivalent Area (ha)	0.11	1.20	0.84	2.47	0.52	0.52	1.28	3.83
Time of Concentration (min)	6.67	7.42	7.50	8.44	7.06	7.08	7.89	8.69
Intensity (mm/hr)	75.06	71.86	71.53	68.04	73.34	73.24	70.02	67.19
Design Flow (m <sup>3</sup> /s)	0.02	0.24	0.17	0.47	0.11	0.11	0.25	0.71
<b>Major Flow (100 Year):</b>								
Equivalent Area (ha)	0.14	1.53	1.07	3.13	0.66	0.67	1.62	4.86
Time of Concentration (min)	7.33	8.83	9.00	10.88	8.12	8.17	9.78	11.38
Intensity (ha)	157.68	144.92	143.66	131.12	150.67	150.25	138.09	128.24
Design Flow (m <sup>3</sup> /s)	0.06	0.61	0.43	1.14	0.28	0.28	0.62	1.73
<b>Overland Flow:</b>								
Qgap (Q100-Q5 Estimate)	0.04	0.37	0.26	0.67	0.17	0.17	0.37	1.02

### CO-EFFICIENT OF RUNOFF

	STORM EVENT		Table 16 (GAA)
	5 Year	100 Year	
Lots	0.71	0.90	Fraction Impervious f=0.8
Road Reserve	0.57	0.72	Fraction Impervious f=0.6
Reserve	0.33	0.41	Fraction Impervious f=0.25

### Time Pipe

	Flow Length (m)	Velocity (m/s)	Tinitial (min)	Tc (mins)
Section AA	80	2	6	6.67
Section BB	170	2	6	7.42
Section CC	180	2	6	7.50
Section DD	293	2	6	8.44
Section EE	127	2	6	7.06
Section FF	130	2	6	7.08
Section GG	227	2	6	7.89
Section HH	323	2	6	8.69

### Time Overland

	Flow Length (m)	Velocity (m/s)	Tinitial (min)	Tc (mins)
Section AA	80	1	6	7.33
Section BB	170	1	6	8.83
Section CC	180	1	6	9.00
Section DD	293	1	6	10.88
Section EE	127	1	6	8.12
Section FF	130	1	6	8.17
Section GG	227	1	6	9.78
Section HH	323	1	6	11.38

Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22



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Designed  
R. WEINBER  
Authorised  
M. READMAN

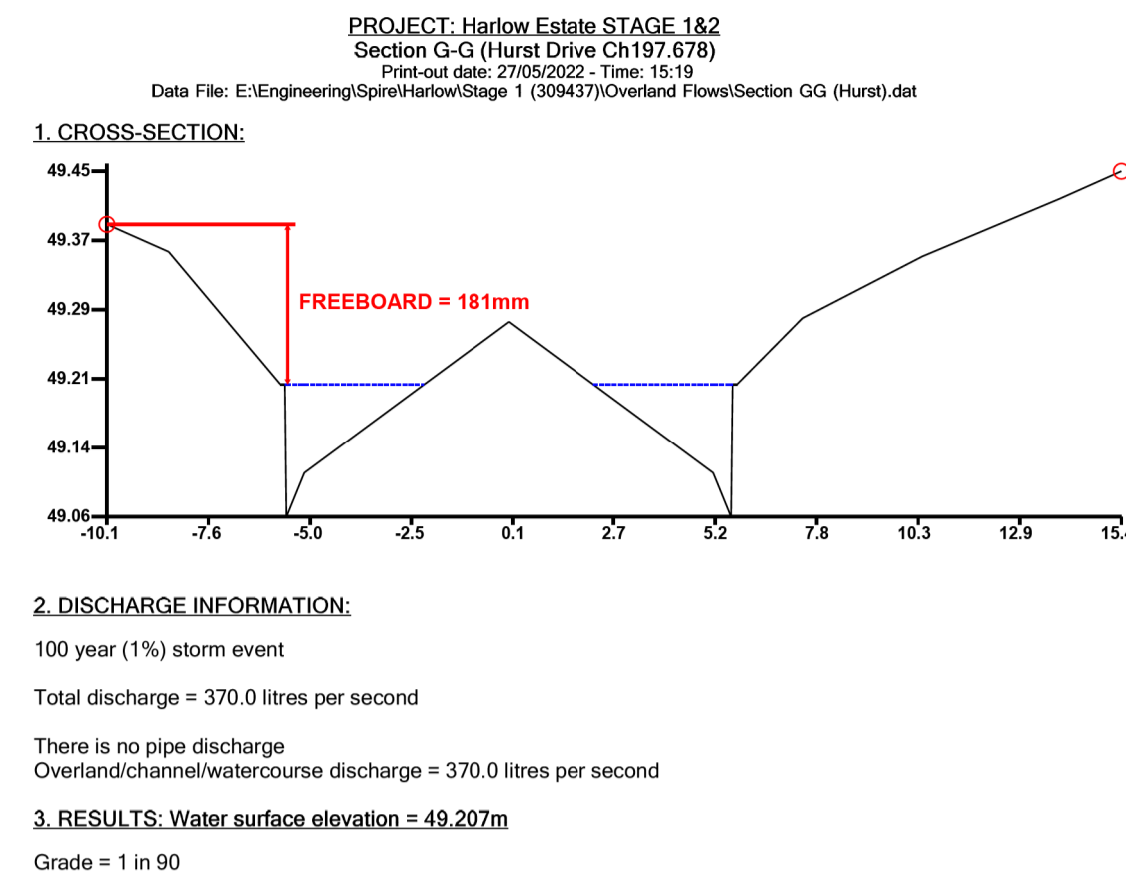
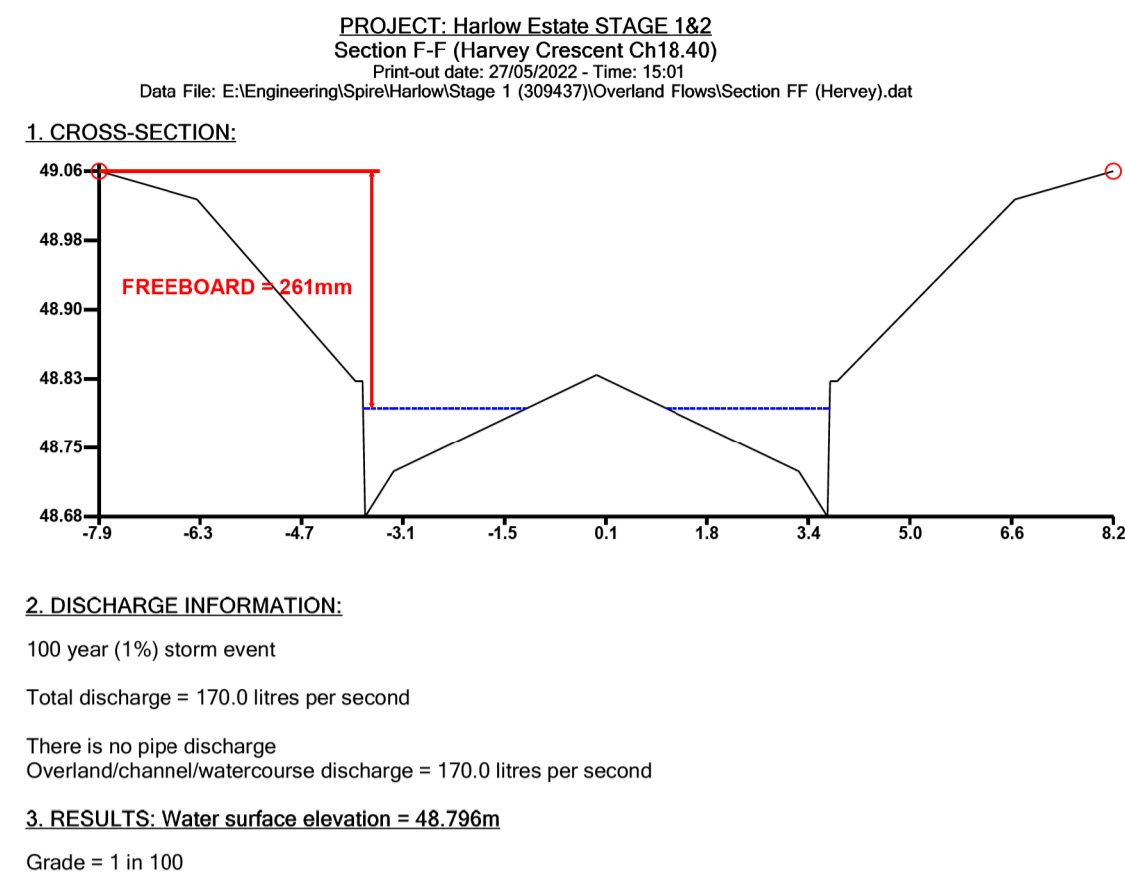
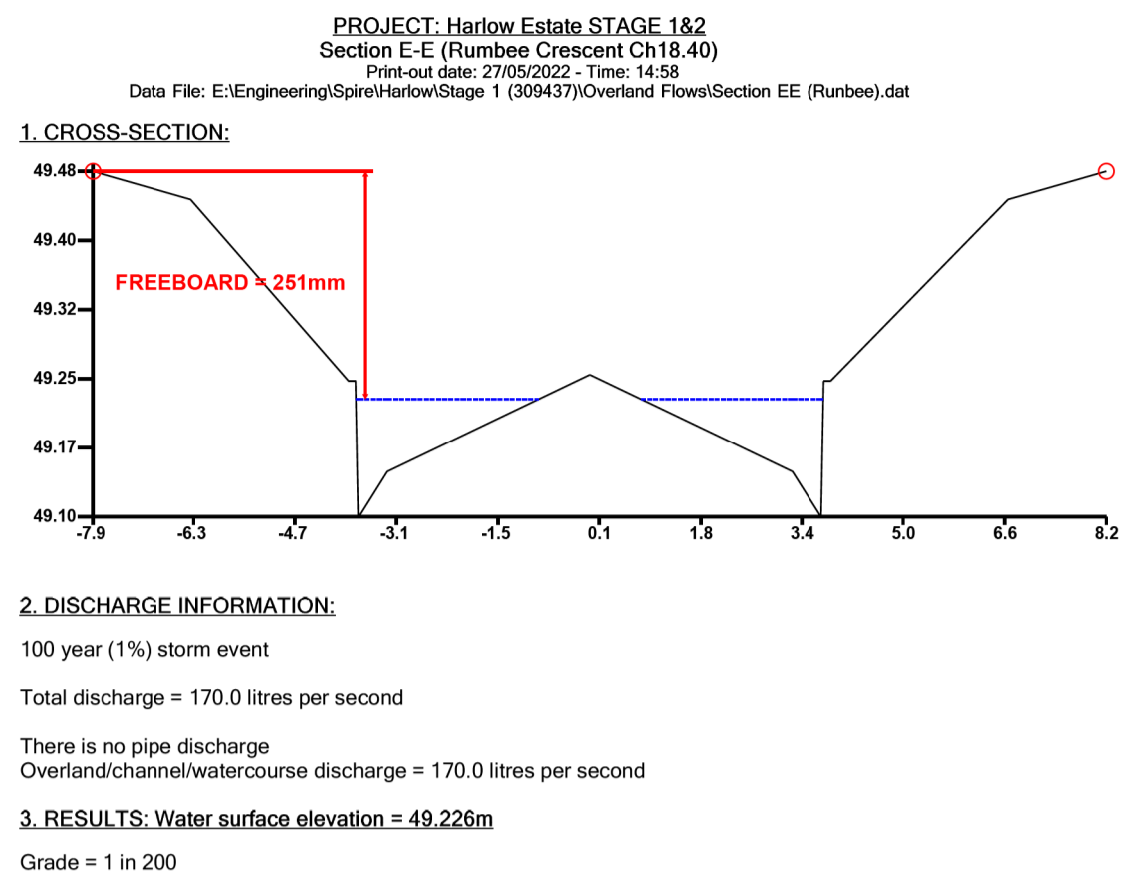
Checked  
M. READMAN  
Date  
04-07-2022

### HARLOW ESTATE STAGE 2 Q100 OVERLAND FLOW PLAN

SIG GROUP  
WYNDHAM CITY COUNCIL

**CONSTRUCTION** Drg No 309438D02

Rev 0



4. CROSS-SECTION DATA: (continued)

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	R.L. (m)	MANNING'S N
13	10.400	49.352	13.850	49.417	0.035
14	13.850	49.417	15.400	49.448	0.013

4. CROSS-SECTION DATA:

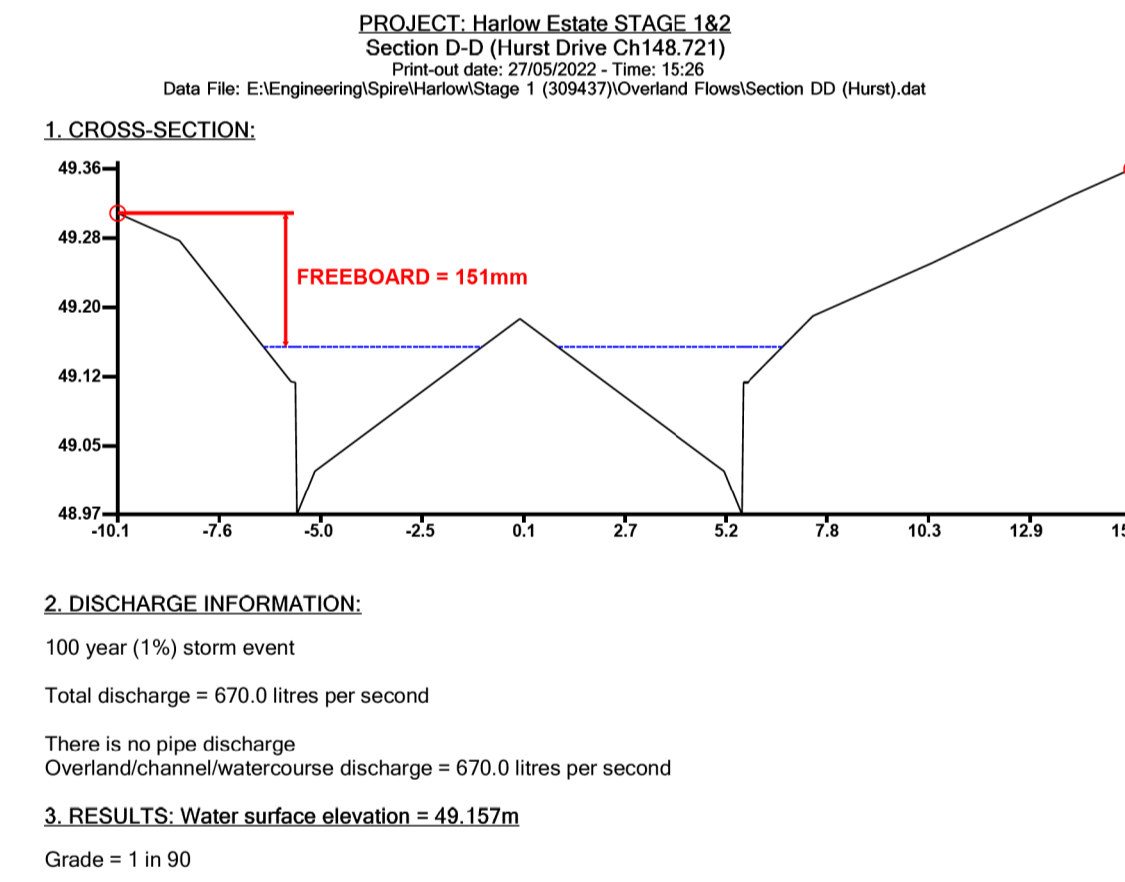
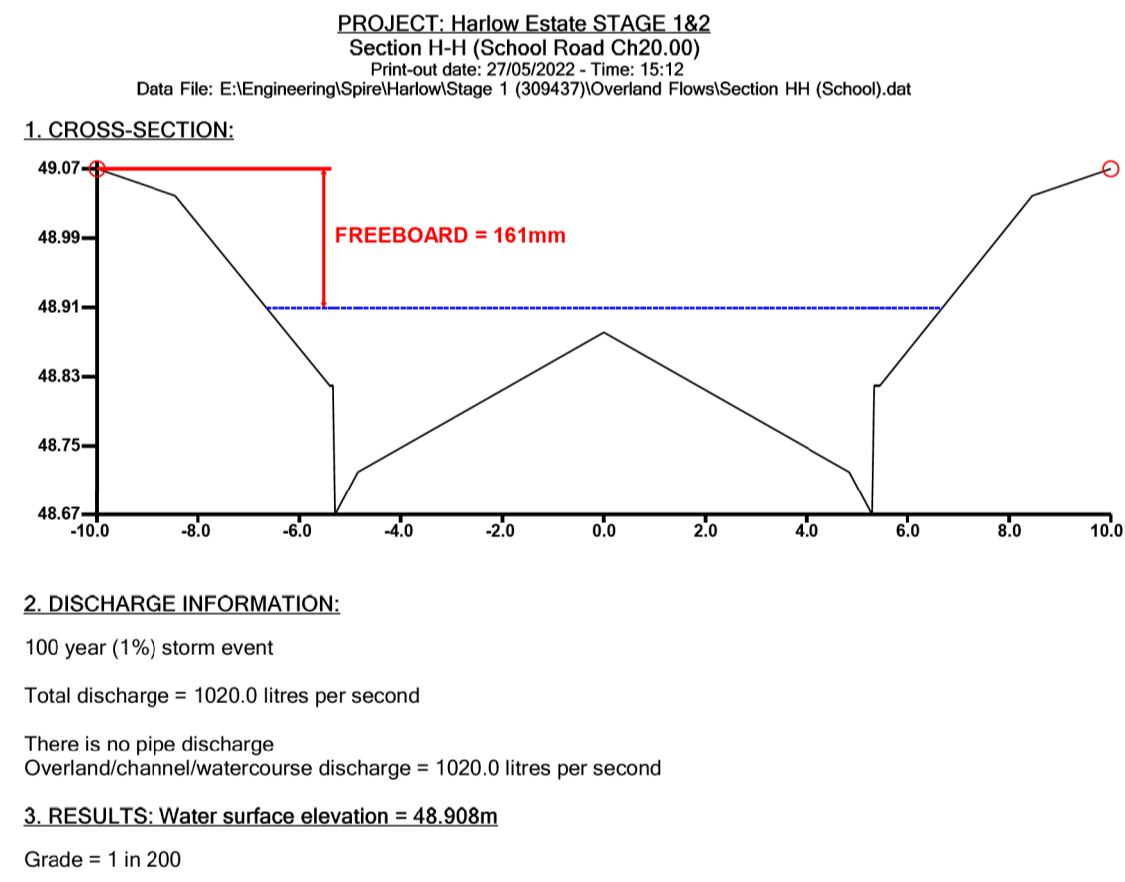
SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-7.850	49.477	-6.300	49.446	0.013
2	-6.300	49.446	-3.800	49.246	0.035
3	-3.800	49.246	-3.690	49.246	0.013
4	-3.690	49.246	-3.650	49.096	0.013
5	-3.650	49.096	-3.200	49.146	0.013
6	-3.200	49.146	0.000	49.253	0.015
7	0.000	49.253	3.200	49.146	0.015
8	3.200	49.146	3.650	49.096	0.013
9	3.650	49.096	3.690	49.246	0.013
10	3.690	49.246	3.800	49.246	0.013
11	3.800	49.246	6.600	49.446	0.035
12	6.600	49.446	8.150	49.477	0.013

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-7.850	49.057	-6.300	49.026	0.013
2	-6.300	49.026	-3.800	48.826	0.035
3	-3.800	48.826	-3.690	48.826	0.013
4	-3.690	48.826	-3.650	48.676	0.013
5	-3.650	48.676	-3.200	48.726	0.013
6	-3.200	48.726	0.000	48.833	0.015
7	0.000	48.833	3.200	48.726	0.015
8	3.200	48.726	3.650	48.676	0.013
9	3.650	48.676	3.690	48.826	0.013
10	3.690	48.826	3.800	48.826	0.013
11	3.800	48.826	6.600	49.026	0.035
12	6.600	49.026	8.150	49.057	0.013

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-10.100	49.388	-8.550	49.357	0.013
2	-8.550	49.357	-5.750	49.207	0.035
3	-5.750	49.207	-5.640	49.207	0.013
4	-5.640	49.207	-5.600	49.057	0.013
5	-5.600	49.057	-5.150	49.107	0.013
6	-5.150	49.107	0.000	49.278	0.015
7	0.000	49.278	5.150	49.107	0.015
8	5.150	49.107	5.600	49.057	0.013
9	5.600	49.057	5.640	49.207	0.013
10	5.640	49.207	5.750	49.207	0.013
11	5.750	49.207	7.400	49.282	0.035
12	7.400	49.282	10.400	49.352	0.013



4. CROSS-SECTION DATA: (continued)

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	R.L. (m)	MANNING'S N
13	10.400	49.252	13.850	49.327	0.035
14	13.850	49.327	15.400	49.358	0.013

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-10.000	49.069	-8.450	49.038	0.013
2	-8.450	49.038	-5.400	48.818	0.035
3	-5.400	48.818	-5.340	48.818	0.013
4	-5.340	48.818	-5.300	48.668	0.013
5	-5.300	48.668	-4.850	48.718	0.013
6	-4.850	48.718	0.000	48.880	0.015
7	0.000	48.880	4.850	48.718	0.015
8	4.850	48.718	5.300	48.668	0.013
9	5.300	48.668	5.340	48.818	0.013
10	5.340	48.818	5.450	48.818	0.013
11	5.450	48.818	8.450	49.038	0.035
12	8.450	49.038	10.000	49.069	0.013

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	R.L. (m)	MANNING'S N
1	-10.100	49.308	-8.550	49.277	0.013
2	-8.550	49.277	-5.750	49.118	0.035
3	-5.750	49.118	-5.640	49.117	0.013
4	-5.640	49.117	-5.600	48.967	0.013
5	-5.600	48.967	-5.150	49.017	0.013
6	-5.150	49.017	0.000	49.189	0.015
7	0.000	49.189	5.150	49.017	0.015
8	5.150	49.017	5.600	48.967	0.013
9	5.600	48.967	5.640	49.117	0.013
10	5.640	49.117	5.750	49.117	0.013
11	5.750	49.117	7.400	49.192	0.035
12	7.400	49.192	10.400	49.252	0.013

Rev	Amendments	Approved	Date
0	COUNCIL COMMENTS AMENDED, ISSUED FOR CONSTRUCTION	M.R	23/08/22

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# Harlow

TARNEIT

Designed <b>R. WEINBER</b>	Checked <b>M. READMAN</b>
Authorised <b>M. READMAN</b>	Date <b>04-07-2022</b>

## HARLOW ESTATE STAGE 2 Q100 OVERLAND FLOW CROSS SECTIONS

SIG GROUP  
WYNDHAM CITY COUNCIL

# CONSTRUCTION

Drg No  
**309438D03**

Rev  
**0**