

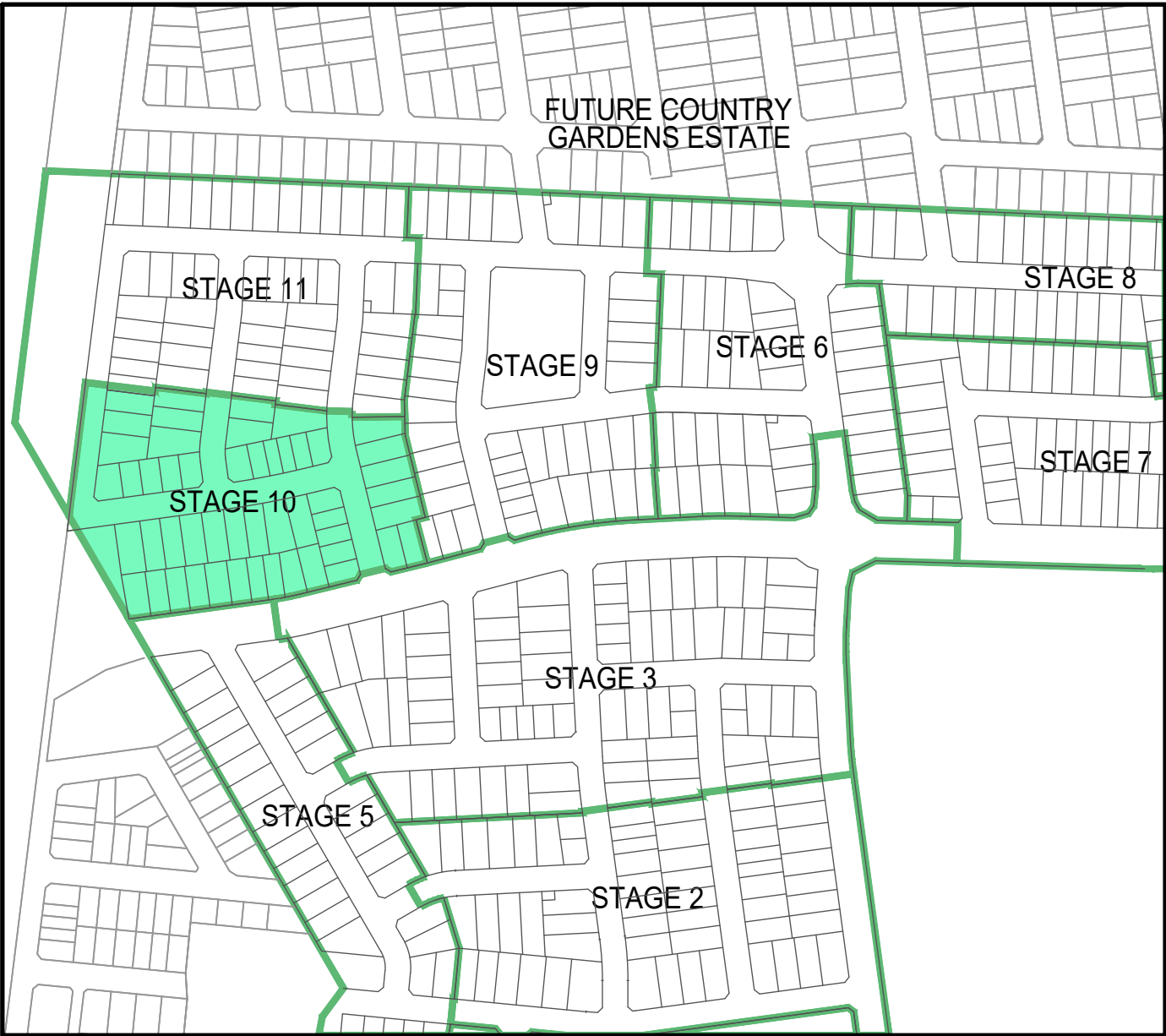
MAMBOURIN ESTATE STAGE 10

FRASERS PROPERTY

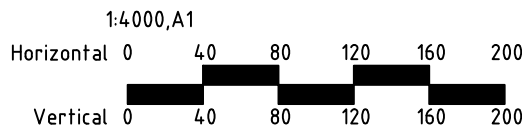
AUSTRALIA

GENERAL NOTES:

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 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 $\pm 0.05\text{m}$.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED METROPOLITAN PLANNING AUTHORITY OR MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS WHERE NOTED AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
- 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 T.B.M.'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 LEVELED 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 COUNCILS & SUPERINTENDENT WRITTEN PERMISSION.
- GAS AND WATER CONDUITS ARE TO BE:
 $\varnothing 50\text{mm}$ - CLASS 12 P.V.C. - SINGLE SERVICE
 $\varnothing 100\text{mm}$ - 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.
- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE METROPOLITAN PLANNING AUTHORITY STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.3m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPE ALIGNMENTS 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.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- OPTICOMM IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
- 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.
- ALL VEHICLE CROSSINGS ARE IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2 UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH METROPOLITAN PLANNING AUTHORITY 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.
- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. SEMP TO BE APPROVED BY COUNCIL 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.
- THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.
- ALL PITS / MANHOLES IN CONCRETED AREAS TO BE CONSTRUCTED IN ACCORDANCE WITH WCC DETAIL SD2-5.
- ALL NATURESTRIPS, FROM BACK OF KERB TO EXISTING EDGE OF PATH OR PROPERTY BOUNDARY ARE TO BE FILLED TO A CLEAN, TIDY CONDITION, TOP DRESSED (50MM LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS) AND HYDROSEEDED.
- ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
- CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.



LOCALITY PLAN



DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
305175R01	FACE SHEET	1	1
305175R02	ROAD & DRAINAGE FACE PLAN	2	1
305175R03	ROAD & DRAINAGE SERVICES PLAN	3	1
305175R04	LONGITUDINAL SECTION - COPAL STREET / BESSIE STREET, PORTRAIT STREET & GLOVER STREET	4	0
305175R05	CROSS SECTIONS - COPAL STREET	5	0
305175R06	CROSS SECTIONS - BESSIE STREET	6	0
305175R07	CROSS SECTIONS - PORTRAIT STREET	7	0
305175R08	CROSS SECTIONS - GLOVER STREET	8	0
305175R09	INTERSECTION DETAILS	9	0
305175R10	DRAINAGE LONG SECTION SHEET 1 OF 4	10	0
305175R11	DRAINAGE LONG SECTION SHEET 2 OF 4	11	0
305175R12	DRAINAGE LONG SECTION SHEET 3 OF 4	12	1
305175R13	DRAINAGE LONG SECTION SHEET 4 OF 4 & PIT SCHEDULE	13	1
305175R14	PAVEMENT PLAN AND TYPICAL DETAILS	14	0
305175R15	SIGNAGE & LINEMARKING	15	0



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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.

LEGEND

DESCRIPTION

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

EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	WATER RECYCLED
UNDERGROUND ELECTRICITY	OVERHEAD ELECTRICITY & POLE
TELECOMMUNICATIONS & SERVICE PIT	OPTIC FIBRE
OVERHEAD TELECOMMUNICATIONS	GAS MAIN
BRANCH SEWER & MAINTENANCE STRUCTURE	SEWER & MAINTENANCE STRUCTURE
SEWER RISING MAIN	CENTRAL INVERT
COUNCIL STORMWATER DRAIN AND PIT	STORM WATER DRAINAGE PROPERTY INLETS
COUNCIL STORM WATER PITS	HOUSE DRAIN
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MWC STORM WATER PITS	STORM WATER DRAINAGE PIT NUMBER
GAS & WATER CONDUITS	CONCRETE VEHICLE CROSSING
PAVEMENT SAWCUT LINE	RIDGE / CHANGE OF GRADE LINE
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VEGETATION LINE	FOOTPATH
TACTILE GROUND SURFACE INDICATOR	KERB TRANSITION

1	AMENDED LOT LAYOUT	M.L	29-05-20
0	CONSTRUCTION ISSUE	M.L	05-07-19
Rev	Amendments	Approved	Date



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ABN 55 050 029 635



Designed
R. WEINBER
Authorised
M. LETSON

Checked
J. KOEHLER
Date
29/05/20

MAMBOURIN ESTATE STAGE 10 FACE SHEET

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

CONSTRUCTION Drg No 305175R01 Rev 1



1	AMENDED LOT LAYOUT	M.L	29-05-20
0	CONSTRUCTION ISSUE	M.L	05-07-19
Rev	Amendments	Approved	Date



 **FRASERS
PROPERTY**

Designed
R. WEINBER

Authorised
M. LETSON

**MAMBOURIN ESTATE
STAGE 10
ROAD & DRAINAGE
FACE PLAN**

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

Rev



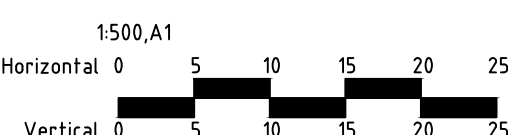
WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY
AND THEIR EXACT POSITION SHOULD BE PROVEN ON
SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING
SERVICES ARE SHOWN. SPECIAL CONSIDERATION
SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES
UNDER OVERHEAD ELECTRICITY TRANSMISSION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

SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		ELECTRICITY				TELECOM	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE		SIDE	OFFSET
GLOVER STREET	W	2.95	W	2.50	W	2.10	E	0.80*	S	2.60	E	1.850
COPAL STREET	N	2.95	N	2.50	N	2.10	S	0.80*	S	2.60	S	1.725
PORTRAIT STREET	E	2.95	E	2.50	E	2.10	W	0.80*	W	2.60	W	1.725
BESSIE STREET	E	2.95	E	2.50	E	2.10	W	0.80*	W	1.10	W	0.700

1. TELSTRA AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRAWINGS.
2. GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH.
3. * DENOTES OFFSET FROM BACK OF KERB.
4. LIGHT POLES DIMENSIONED TO CENTRE OF POLE.

1	AMENDED LOT LAYOUT	M.L.	29-05-20
0	CONSTRUCTION ISSUE	M.L.	05-07-19
Rev	Amendments	Approved	Date



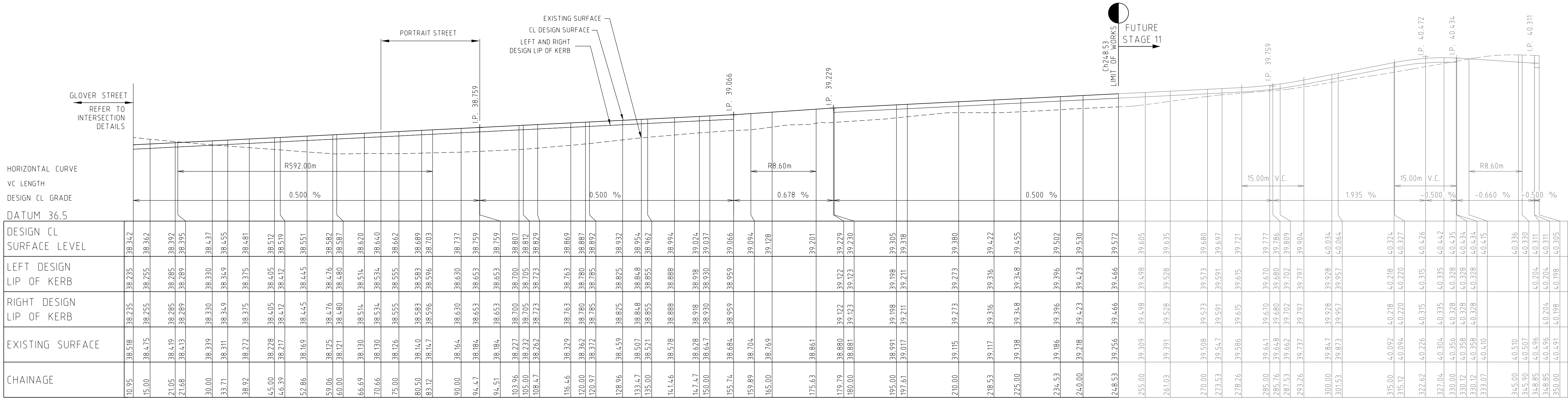
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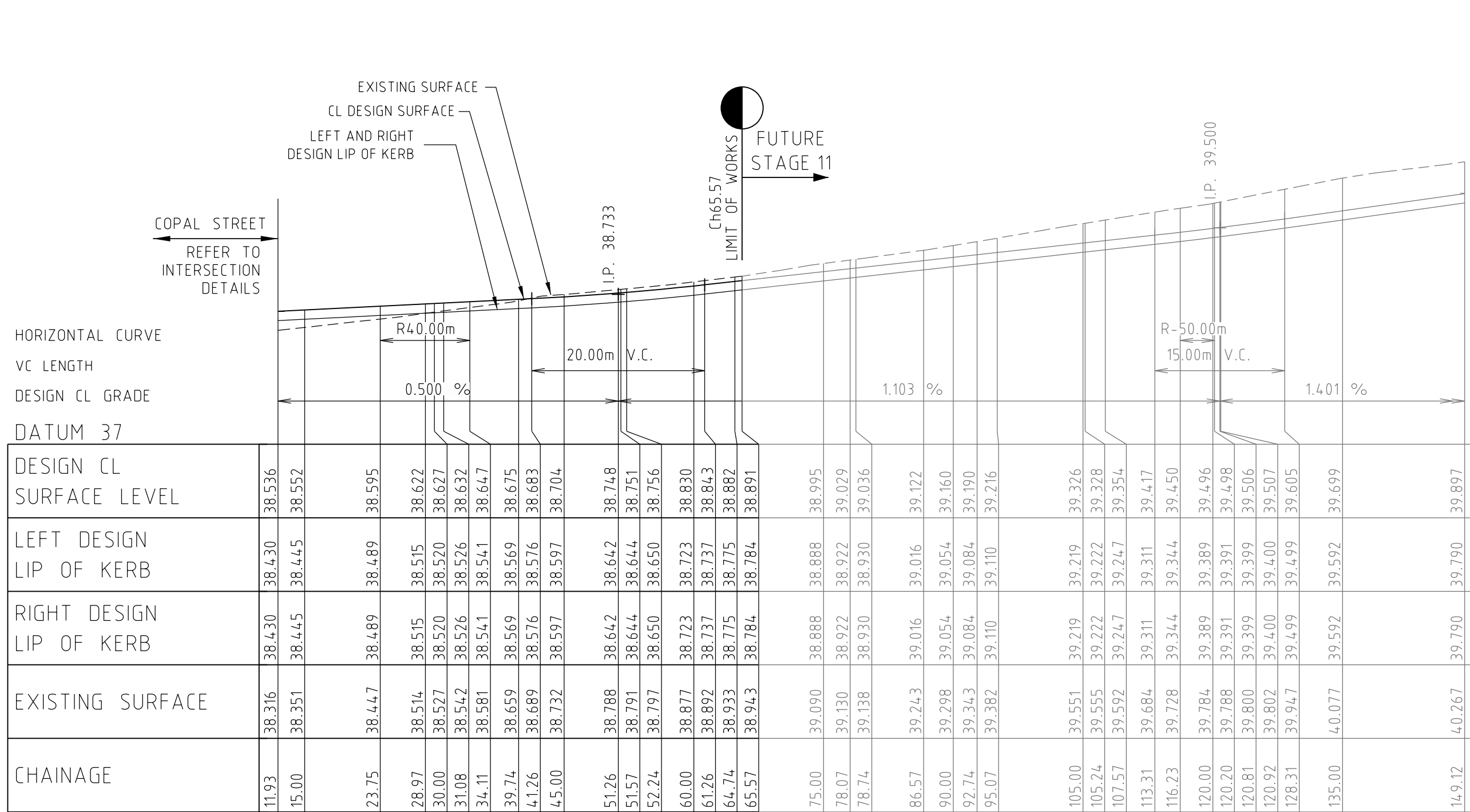
FRASERS PROPERTY
Designed
R. WEINBER
Authorised
M. LETSON

Checked
J. KOEHLER
Date
29/05/20

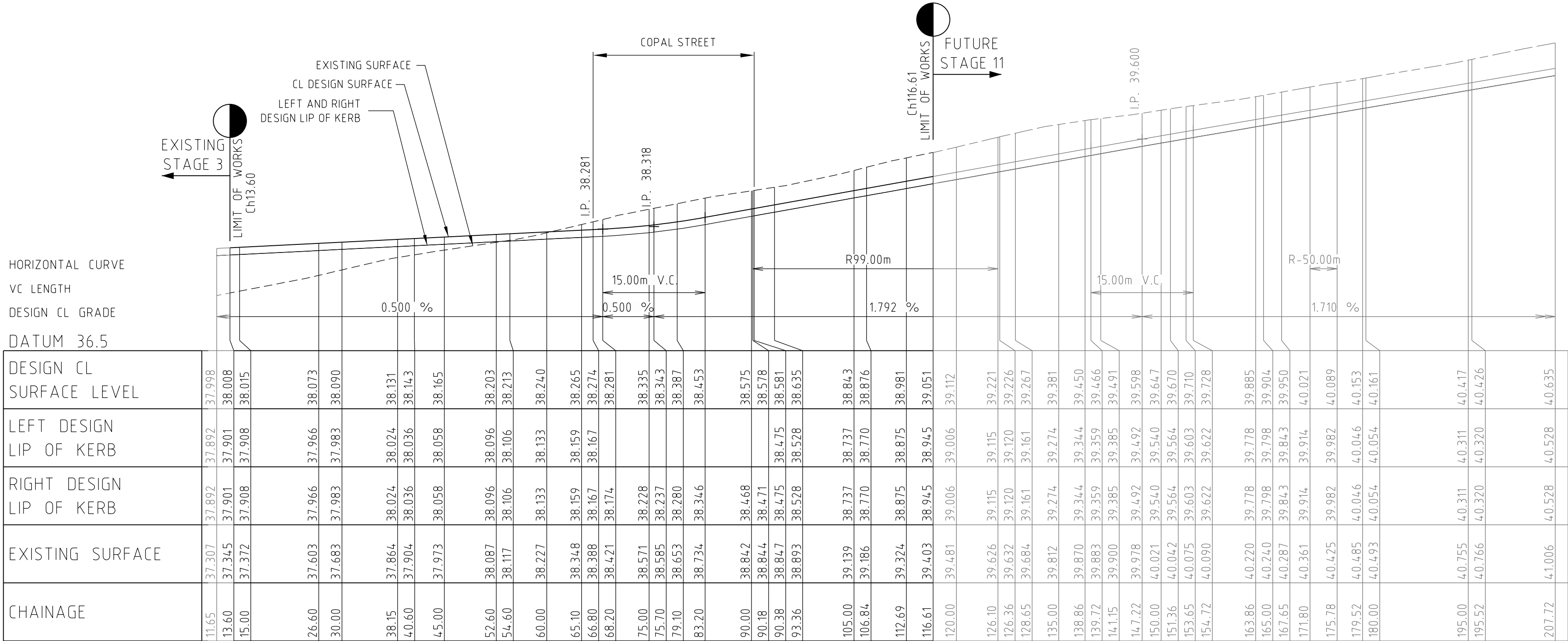
**MAMBOURIN ESTATE
STAGE 10
ROAD & DRAINAGE
SERVICES PLAN**
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL
CONSTRUCTION Drg No 305175R03 Rev 1



COPAL STREET / BESSIE STREET

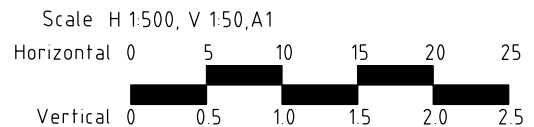


PORTRAIT STREET



GLOVER STREET

0	CONSTRUCTION ISSUE	M.L.	05-07-19
Rev	Amendments	Approved	Date



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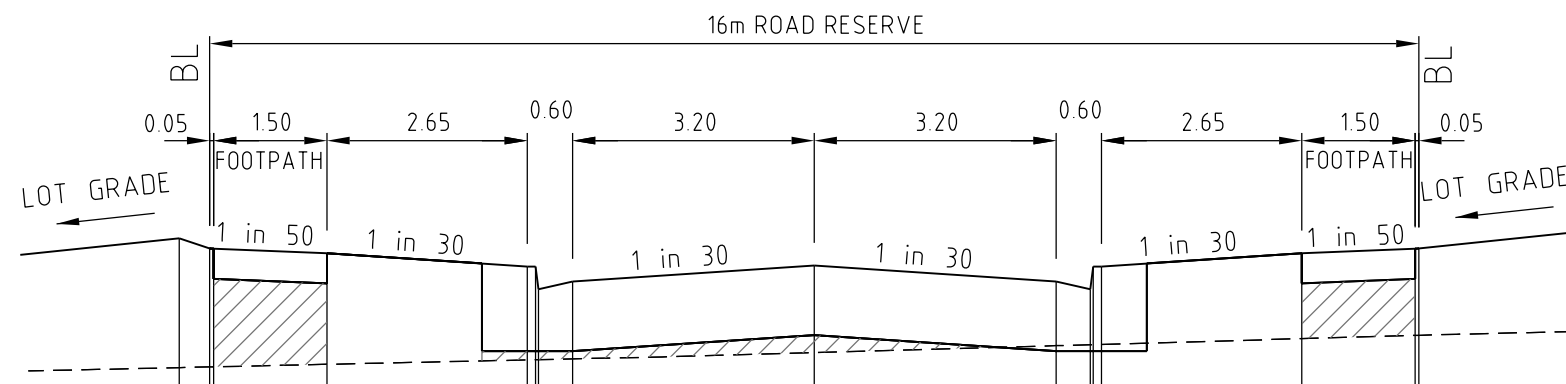
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PROPERTY
Designed
R. WEINBER
Authorised
M. LETSON

Checked
J. KOEHLER
Date
3/04/19

MAMBOURIN ESTATE
STAGE 10
LONGITUDINAL SECTION - COPAL STREET/
BESSIE STREET, PORTRAIT STREET & GLOVER STREET
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION
Drg No
305175R04
Rev
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STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.

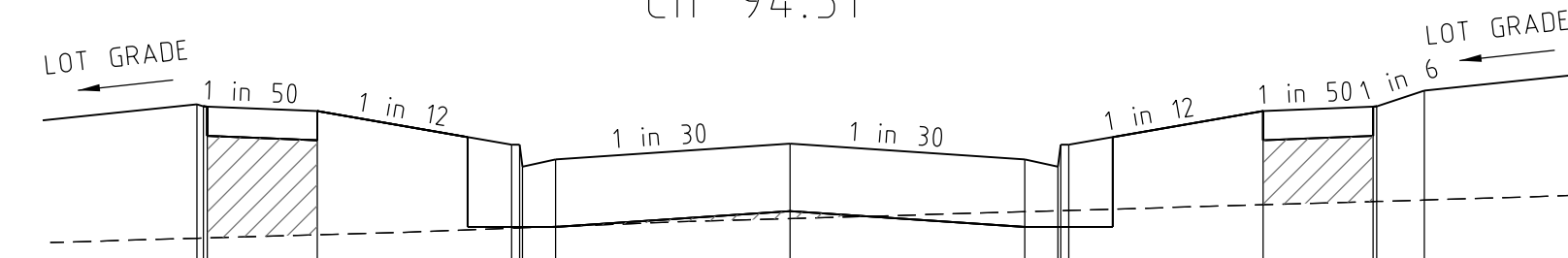


DATUM 37

DESIGN SURFACE LEVEL	38.939	38.872	38.871	38.841	38.753	38.753	38.653	38.653	38.759	38.653	38.653	38.753	38.841	38.871	38.872
EXISTING SURFACE LEVEL	38.084	38.089	38.089	38.106	38.135	38.136	38.137	38.142	38.184	38.229	38.236	38.236	38.276	38.297	38.298
OFFSET	-8.402	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	6.450	7.950	8.000

COPAL STREET

Ch 94.51

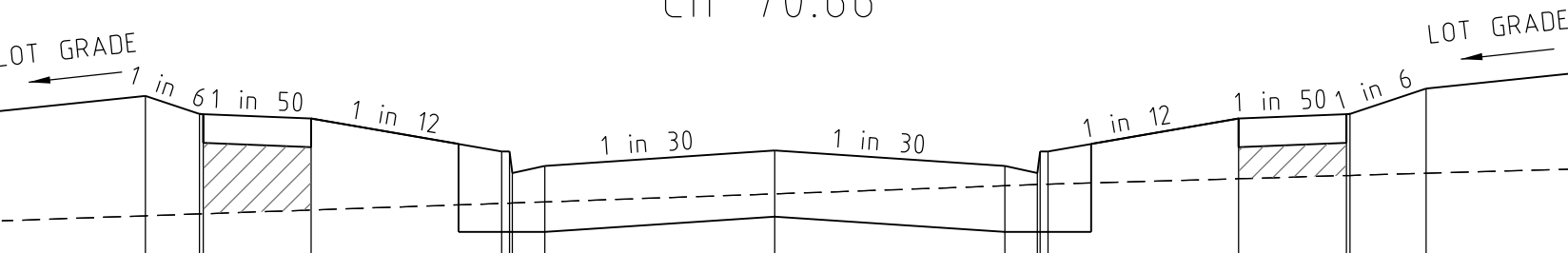


DATUM 37

DESIGN SURFACE LEVEL	38.910	38.895	38.894	38.864	38.634	38.634	38.534	38.534	38.640	38.534	38.534	38.634	38.864	38.894	38.902
EXISTING SURFACE LEVEL	37.996	37.997	37.998	38.019	38.064	38.067	38.076	38.076	38.130	38.177	38.183	38.184	38.224	38.246	38.247
OFFSET	-8.089	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	6.450	7.950	8.000

COPAL STREET

Ch 70.66

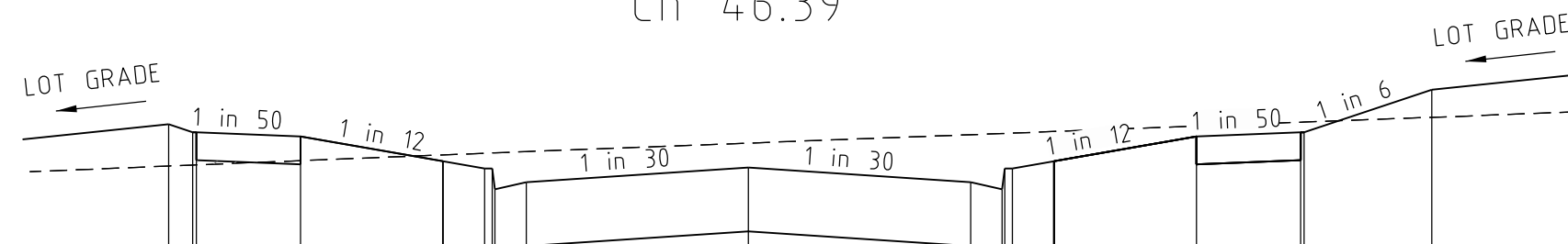


DATUM 37

DESIGN SURFACE LEVEL	38.898	38.773	38.772	38.742	38.512	38.512	38.412	38.412	38.519	38.412	38.412	38.512	38.742	38.772	38.773
EXISTING SURFACE LEVEL	38.065	38.078	38.079	38.105	38.151	38.153	38.154	38.161	38.217	38.274	38.282	38.283	38.323	38.345	38.345
OFFSET	-8.751	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	6.450	7.950	8.000

COPAL STREET

Ch 46.39

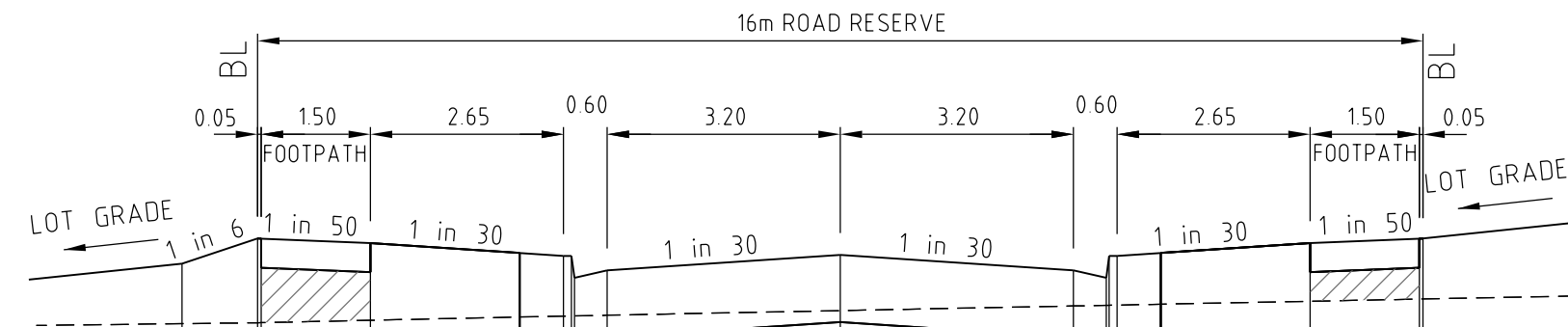


DATUM 37

DESIGN SURFACE LEVEL	38.654	38.596	38.595	38.565	38.335	38.335	38.235	38.235	38.342	38.235	38.235	38.335	38.565	38.595	38.596
EXISTING SURFACE LEVEL	38.352	38.359	38.360	38.391	38.444	38.446	38.447	38.456	38.518	38.578	38.587	38.588	38.640	38.668	38.669
OFFSET	-8.346	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	6.450	7.950	8.000

COPAL STREET

Ch 10.95

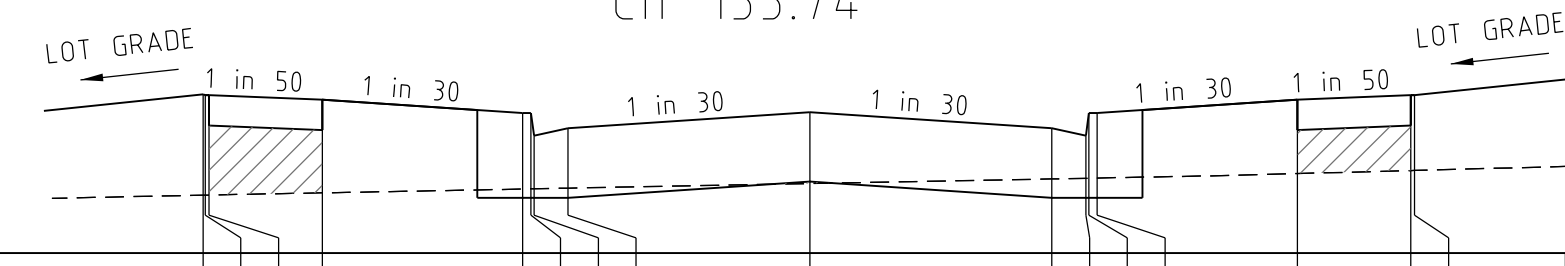


DATUM 38

DESIGN SURFACE LEVEL	39.005	39.178	39.177	39.147	39.059	39.059	39.059	39.059	39.066	39.059	39.059	39.059	39.147	39.177	39.178
EXISTING SURFACE LEVEL	38.594	38.601	38.601	38.617	38.646	38.647	38.647	38.652	38.684	38.716	38.720	38.720	38.748	38.763	38.763
OFFSET	-9.039	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	6.450	7.950	8.000

COPAL STREET

Ch 155.74

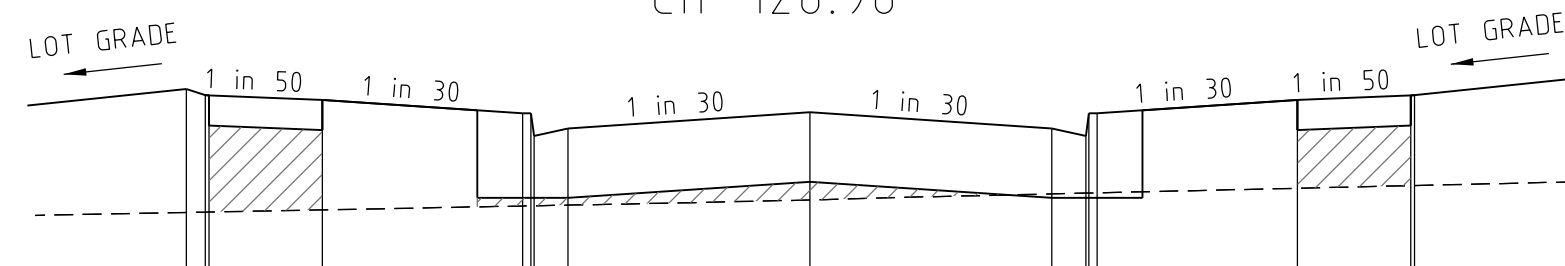


DATUM 38

DESIGN SURFACE LEVEL	39.049	39.045	39.044	39.014	38.925	38.925	38.925	38.925	38.932	38.925	38.925	38.925	39.014	39.044	39.045
EXISTING SURFACE LEVEL	38.382	38.383	38.383	38.398	38.423	38.424	38.424	38.429	38.459	38.490	38.494	38.495	38.525	38.545	38.546
OFFSET	-8.030	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	6.450	7.950	8.000

COPAL STREET

Ch 128.96



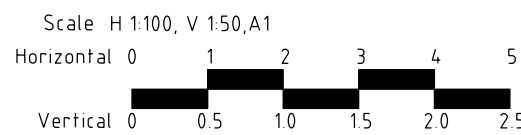
DATUM 37

DESIGN SURFACE LEVEL	38.961	38.919	38.918	38.888	38.800	38.800	38.700	38.700	38.807	38.700	38.700	38.800	38.888	38.918	38.919
EXISTING SURFACE LEVEL	38.144	38.146	38.147	38.161	38.188	38.188	38.193	38.200	38.227	38.267	38.272	38.274	38.304	38.322	38.322
OFFSET	-8.250	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	6.450	7.950	8.000

COPAL STREET

Ch 103.96

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.L.	05-07-19



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Authorised
M. LETSON

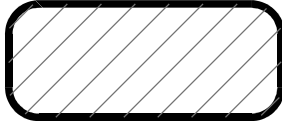
Checked
J. KOEHLER
Date
3/04/19

**MAMBOURIN ESTATE
STAGE 10**

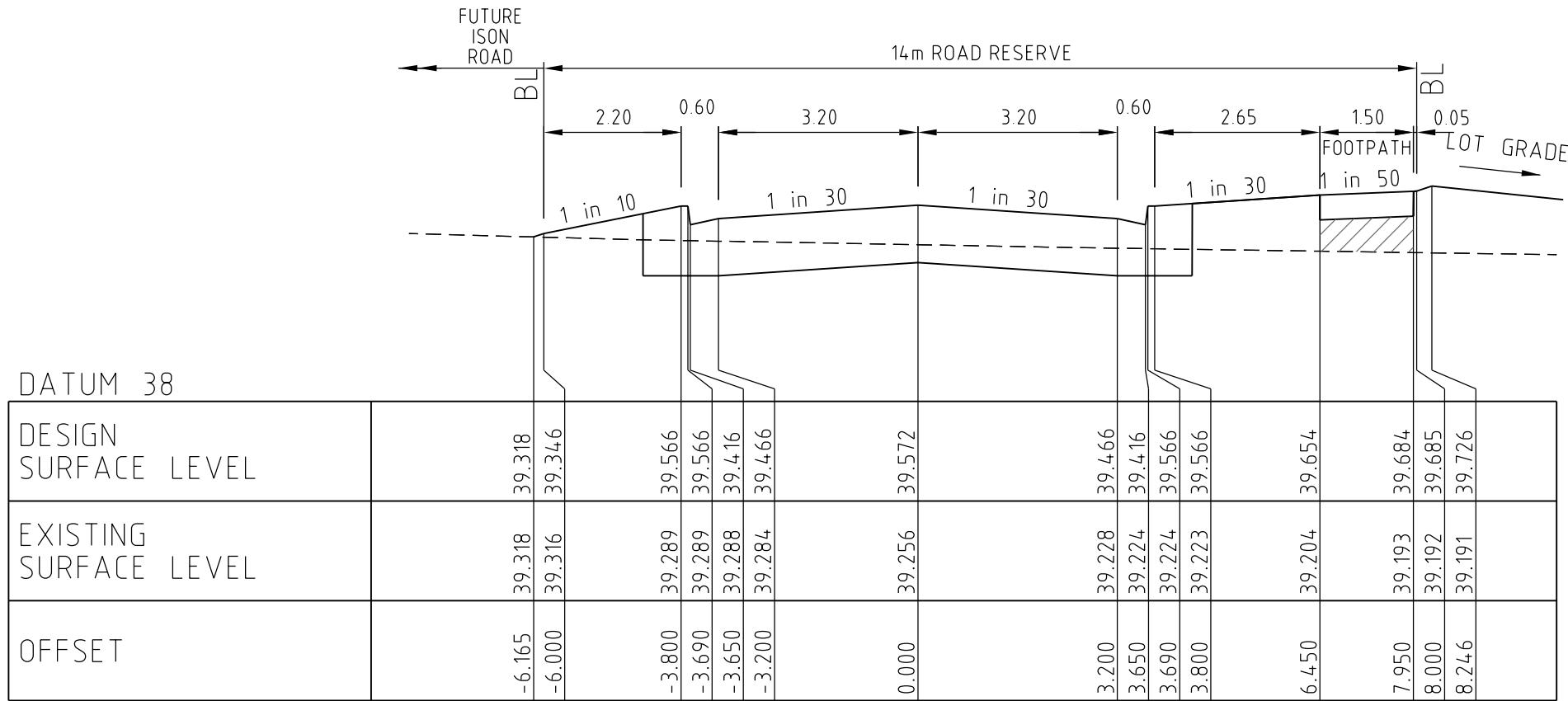
CROSS SECTIONS - COPAL STREET
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No
305175R05

Rev
0

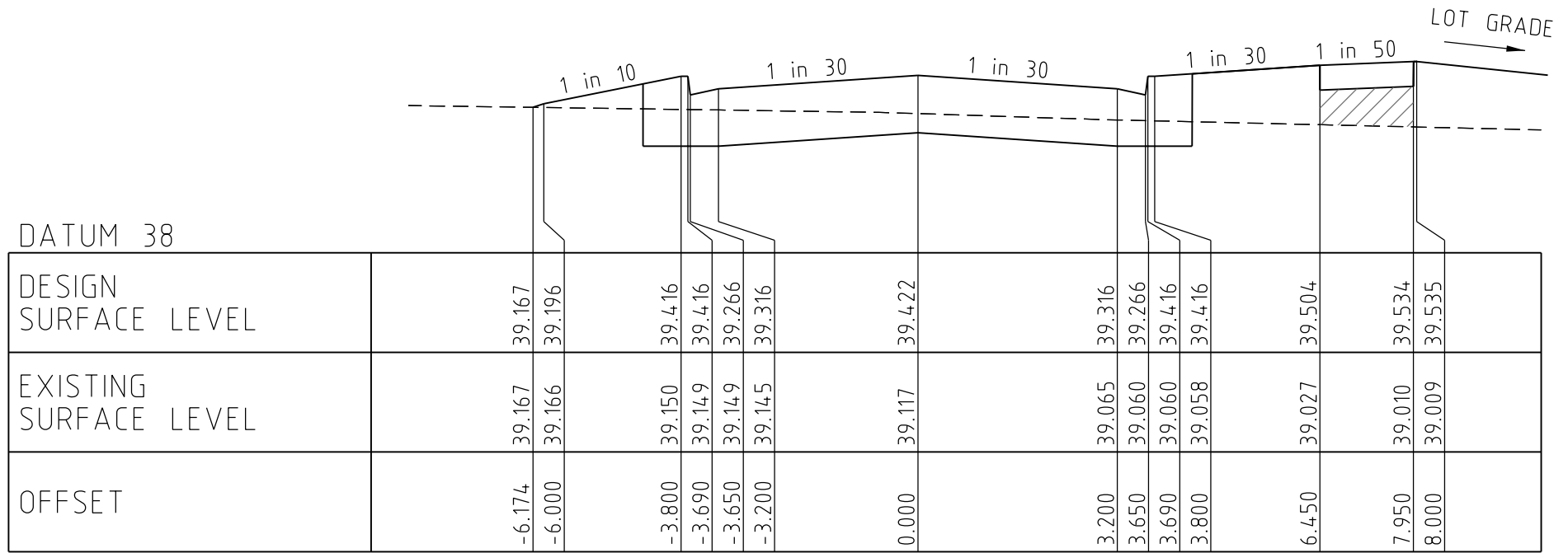


STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.



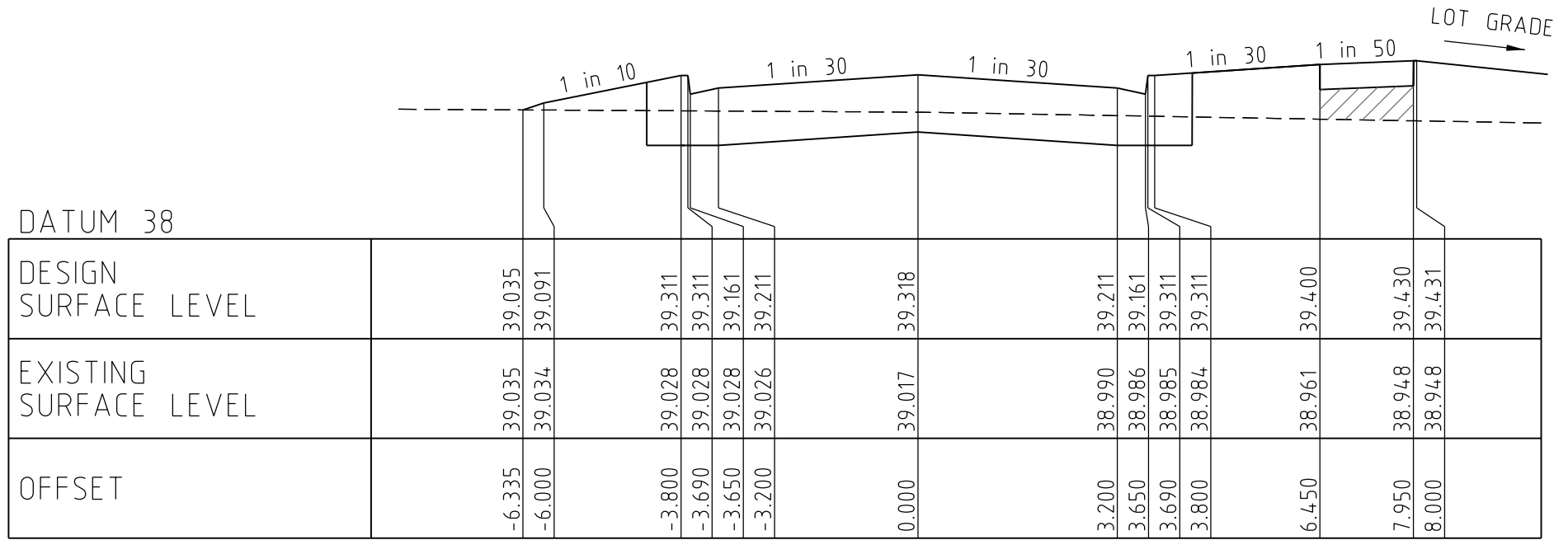
BESSIE STREET

Ch 248.53



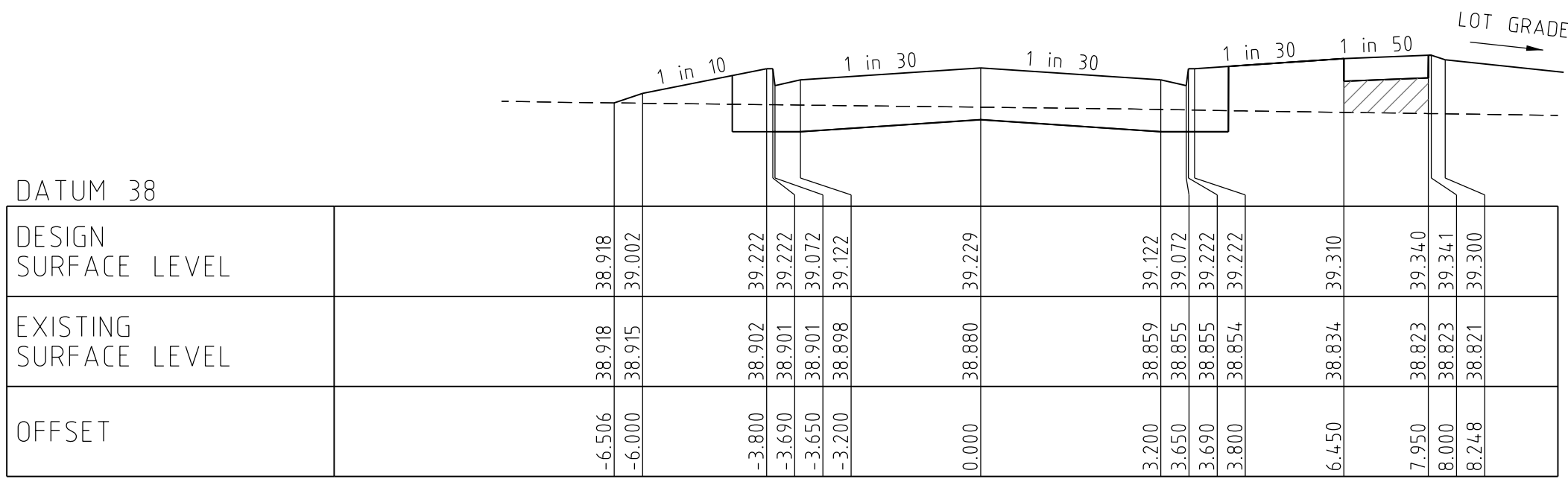
BESSIE STREET

Ch 218.53



BESSIE STREET

Ch 197.61



BESSIE STREET

Ch 179.79

0	CONSTRUCTION ISSUE	M.L.	05-07-19
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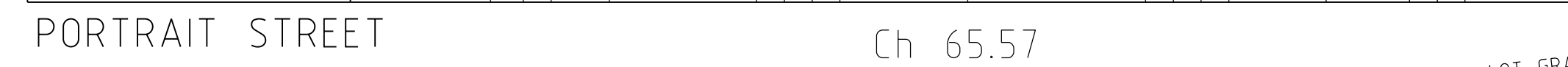
MAMBOURIN ESTATE
STAGE 10
CROSS SECTIONS - BESSIE STREET
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No 305175R06

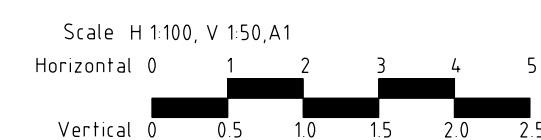
Rev 0



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



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**MAMBOURIN ESTATE
STAGE 10**

CROSS SECTIONS - PORTRAIT STREET

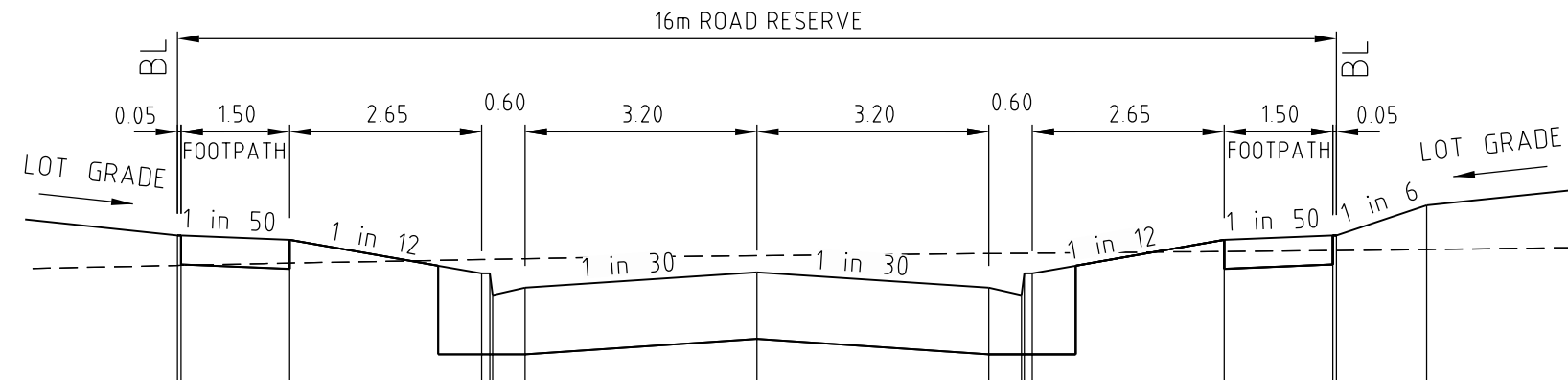
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No **305175R07**

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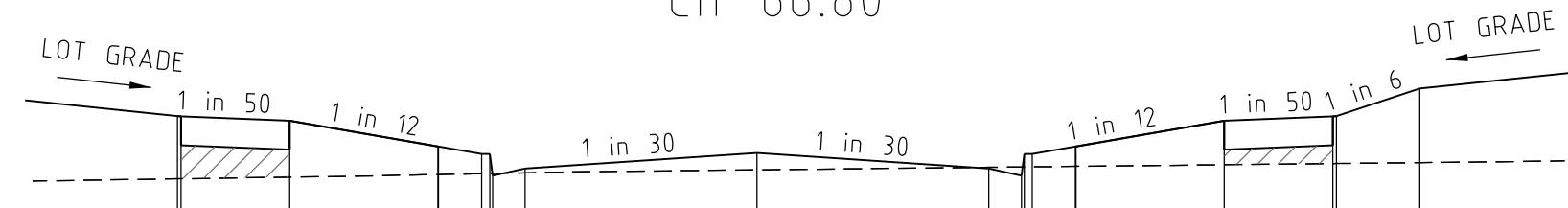


STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.



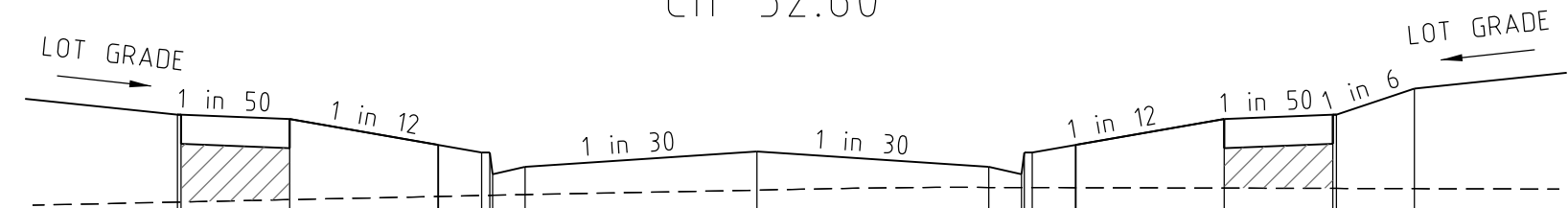
DATUM 37	
DESIGN SURFACE LEVEL	38.528 38.527 38.497 38.267 38.267 38.117 38.267 38.497 38.528 38.736
EXISTING SURFACE LEVEL	38.322 38.322 38.337 38.362 38.363 38.363 38.367 38.417 38.424 38.431
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.650 -3.650 -3.200 0.000 3.200 3.650 3.650 3.800 6.450 7.950 8.000 9.246

GLOVER STREET Ch 66.80



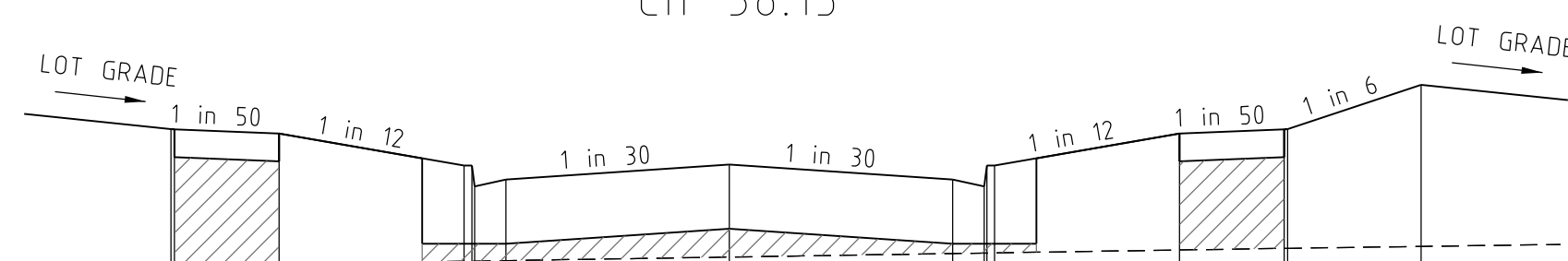
DATUM 37	
DESIGN SURFACE LEVEL	38.457 38.456 38.426 38.196 38.196 38.046 38.196 38.426 38.456 38.649
EXISTING SURFACE LEVEL	38.025 38.025 38.036 38.060 38.061 38.062 38.066 38.137 38.137 38.137
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.650 -3.650 -3.200 0.000 3.200 3.650 3.650 3.800 6.450 7.950 8.000 9.148

GLOVER STREET Ch 52.60



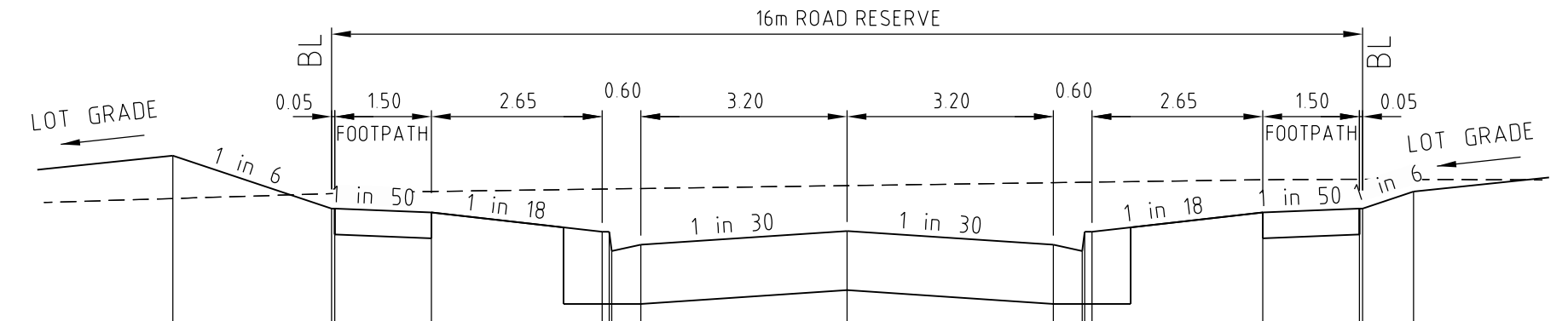
DATUM 37	
DESIGN SURFACE LEVEL	38.385 38.384 38.354 38.124 38.124 37.974 38.124 38.354 38.384 38.564
EXISTING SURFACE LEVEL	37.781 37.782 37.798 37.827 37.828 37.828 37.833 37.874 37.874 37.874
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.650 -3.650 -3.200 0.000 3.200 3.650 3.650 3.800 6.450 7.950 8.000 9.076

GLOVER STREET Ch 38.15



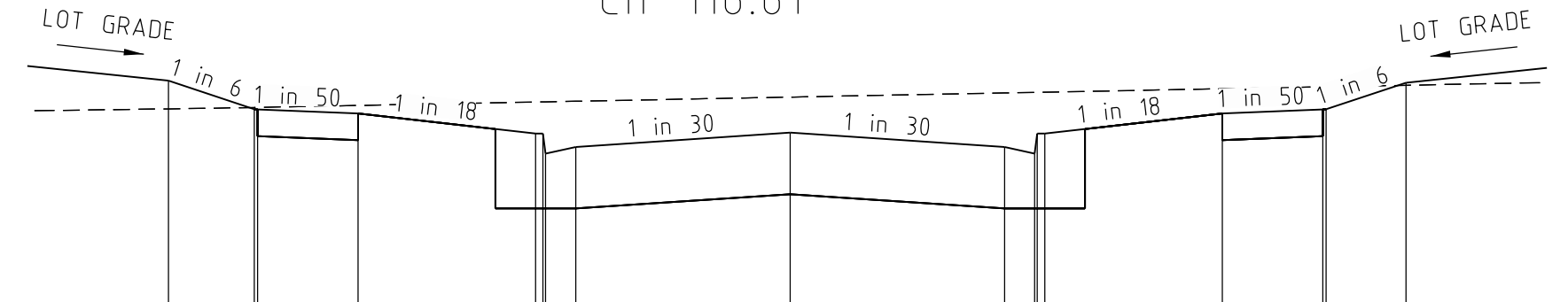
DATUM 37	
DESIGN SURFACE LEVEL	38.262 38.261 38.231 38.001 38.001 37.851 38.001 38.231 38.261 38.581
EXISTING SURFACE LEVEL	37.284 37.284 37.295 37.315 37.316 37.316 37.319 37.336 37.336 37.336
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.650 -3.650 -3.200 0.000 3.200 3.650 3.650 3.800 6.450 7.950 8.000 9.910

GLOVER STREET Ch 13.60



DATUM 38	
DESIGN SURFACE LEVEL	39.636 39.226 39.225 39.045 39.045 38.895 39.045 39.051 38.945 39.225 39.226 39.358
EXISTING SURFACE LEVEL	39.303 39.342 39.342 39.377 39.377 39.378 39.381 39.403 39.426 39.429 39.430 39.430
OFFSET	-10.462 -8.000 -7.950 -6.450 -3.800 -3.650 -3.650 -3.200 0.000 3.200 3.650 3.800 6.450 7.950 8.000 8.790

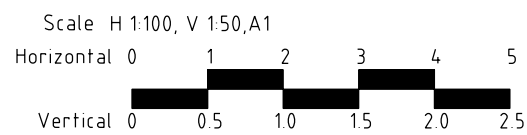
GLOVER STREET Ch 116.61



DATUM 37	
DESIGN SURFACE LEVEL	38.969 38.756 38.755 38.575 38.575 38.425 38.425 38.581 38.475 38.755 38.756 38.955
EXISTING SURFACE LEVEL	38.759 38.770 38.770 38.810 38.812 38.812 38.816 38.847 38.878 38.883 38.883 38.936
OFFSET	-9.282 -8.000 -7.950 -6.450 -3.800 -3.650 -3.650 -3.200 0.000 3.200 3.650 3.800 6.450 7.950 8.000 9.194

GLOVER STREET Ch 90.38

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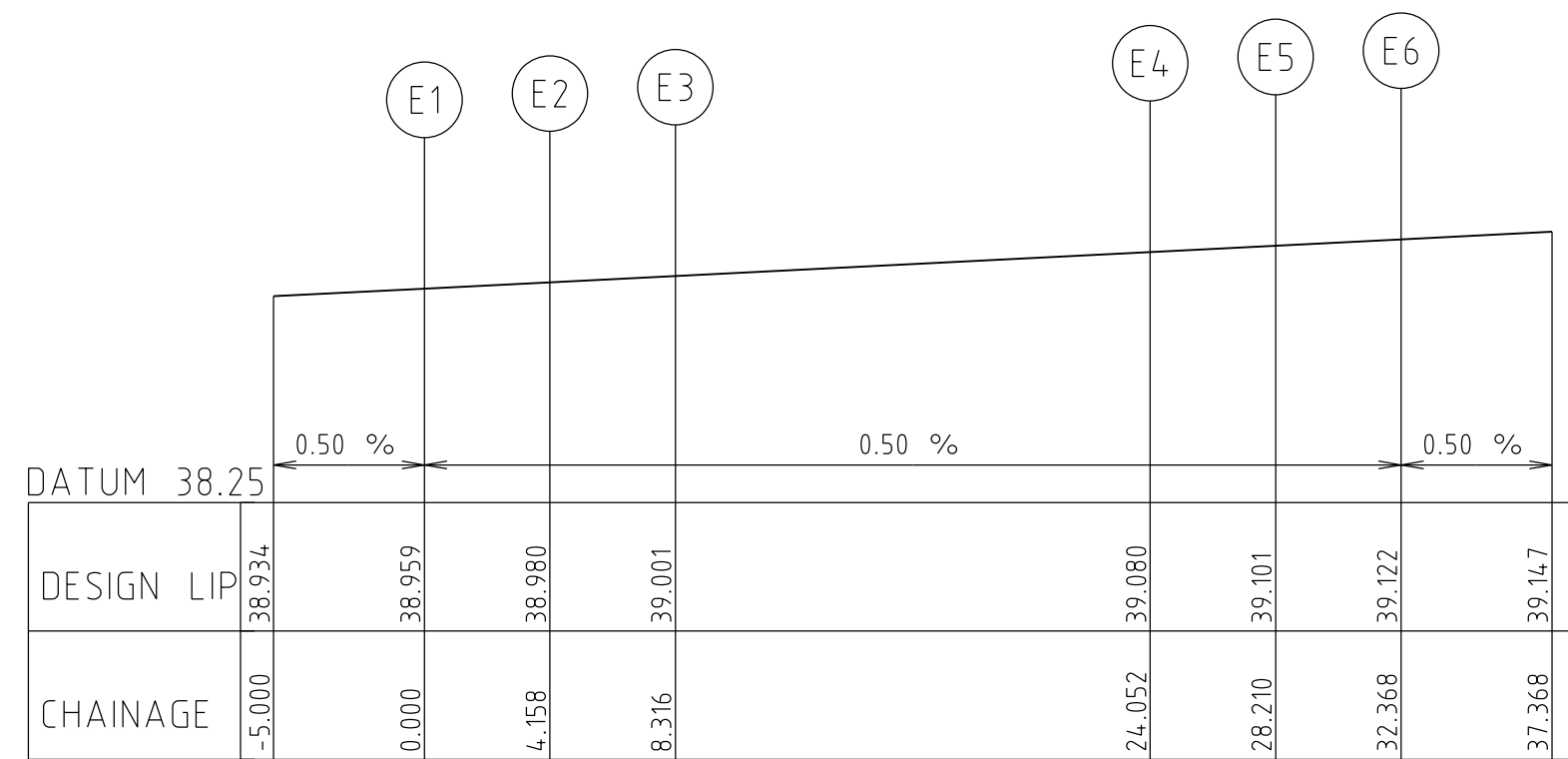
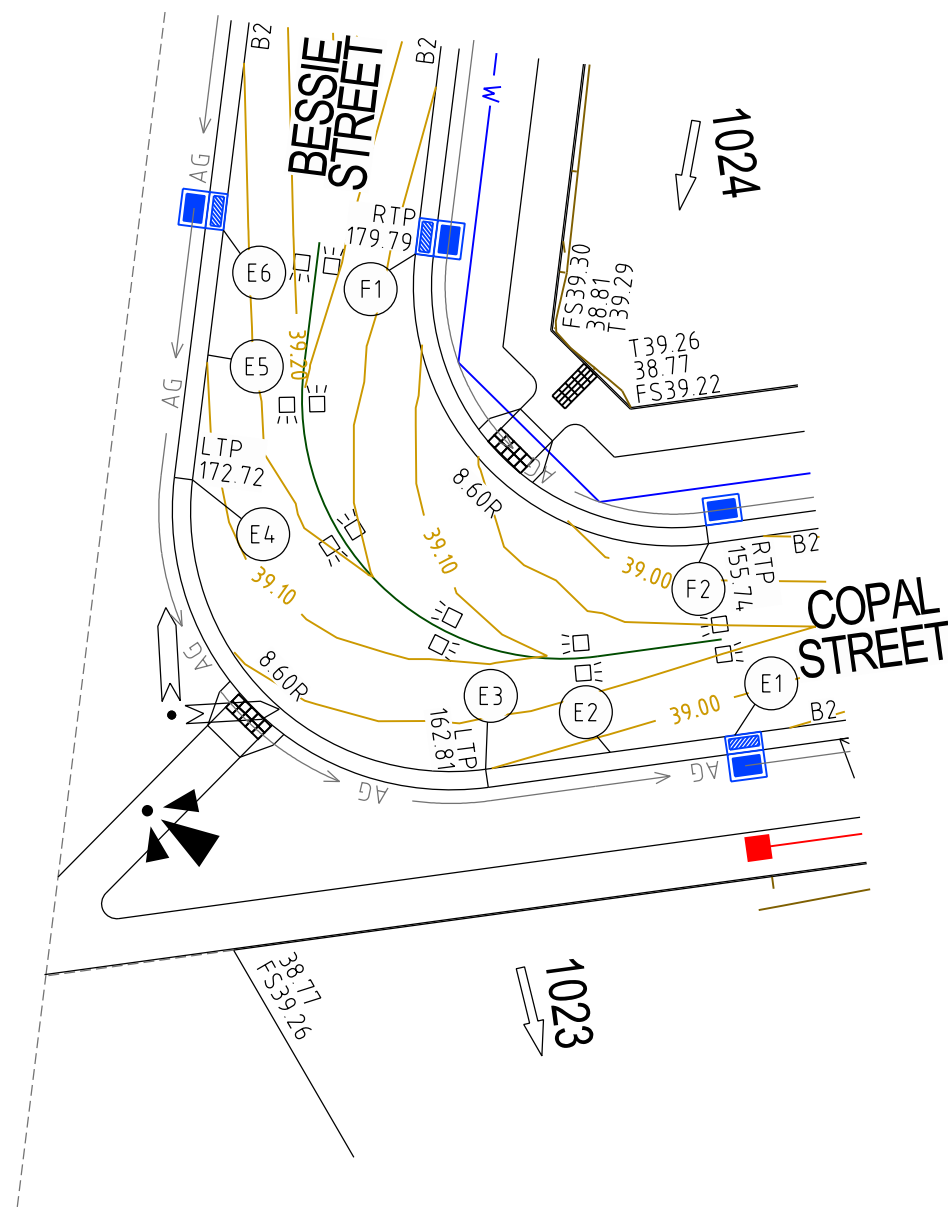
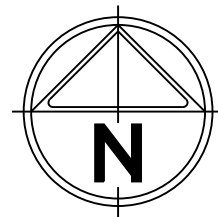
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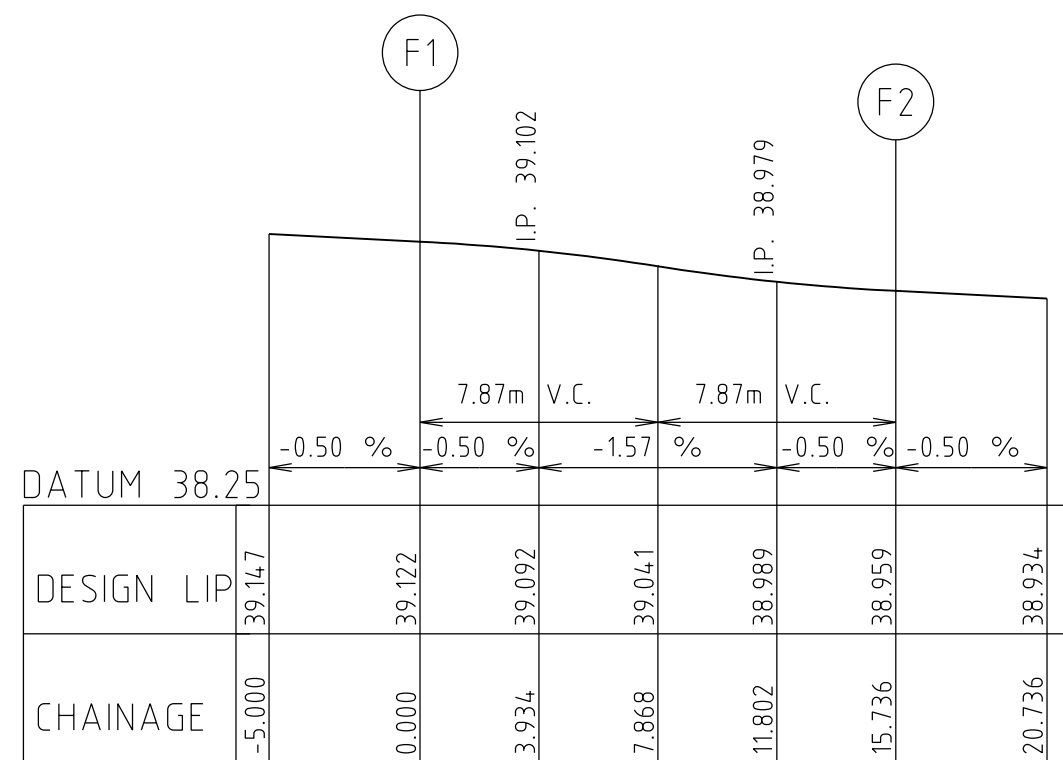
Designed
R. WEINBER
Authorised
M. LETSON

Checked
J. KOEHLER
Date
3/04/19

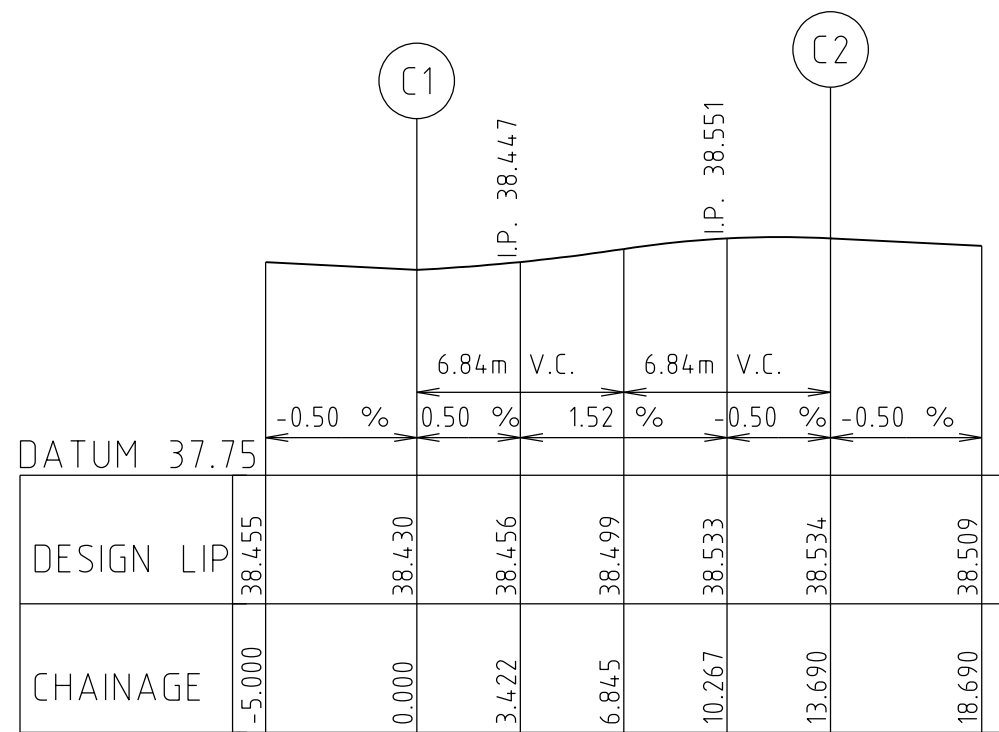
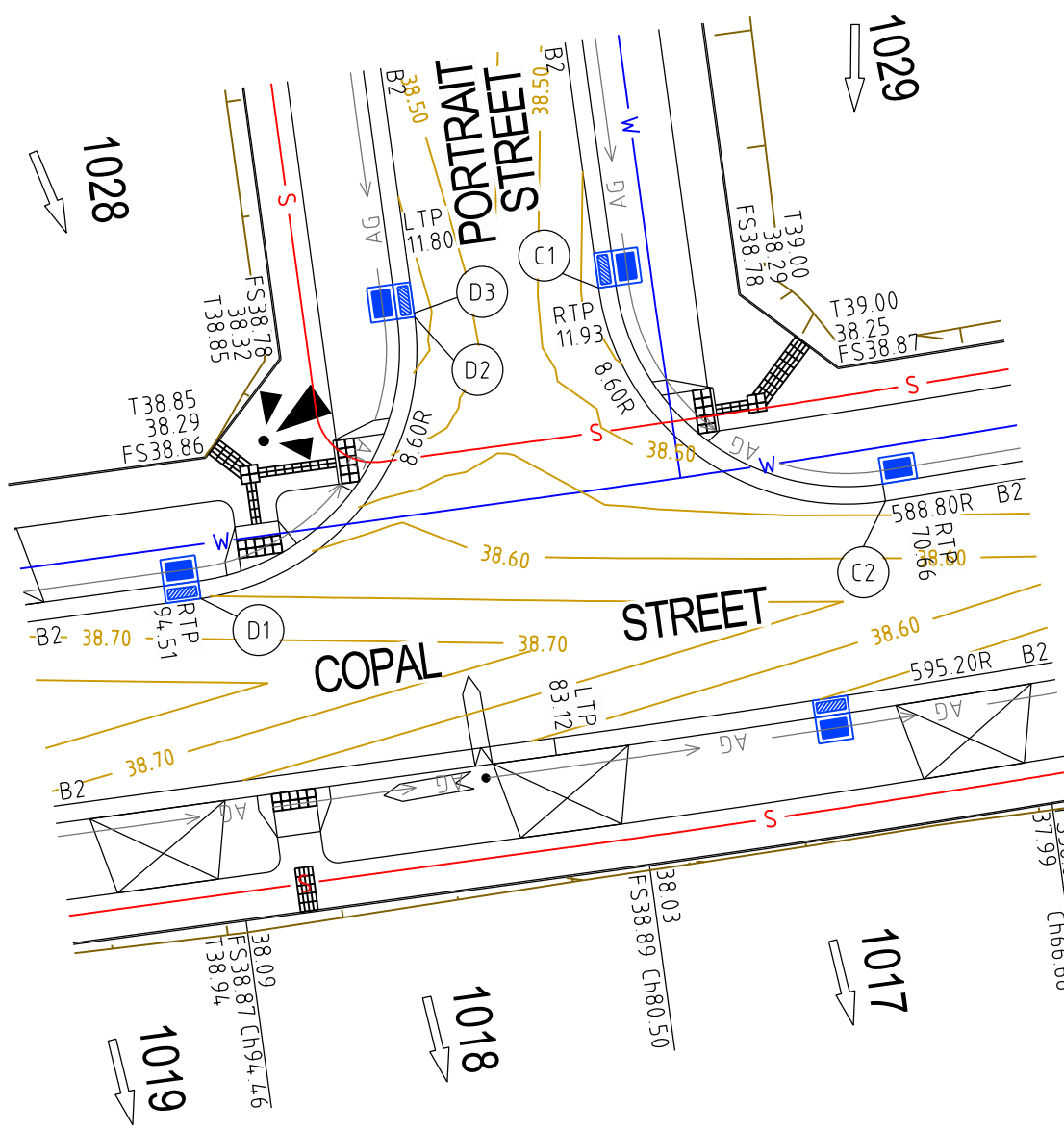
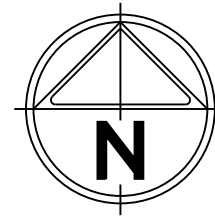
**MAMBOURIN ESTATE
STAGE 10**
CROSS SECTIONS - GLOVER STREET
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION Drg No
305175R08 Rev
0



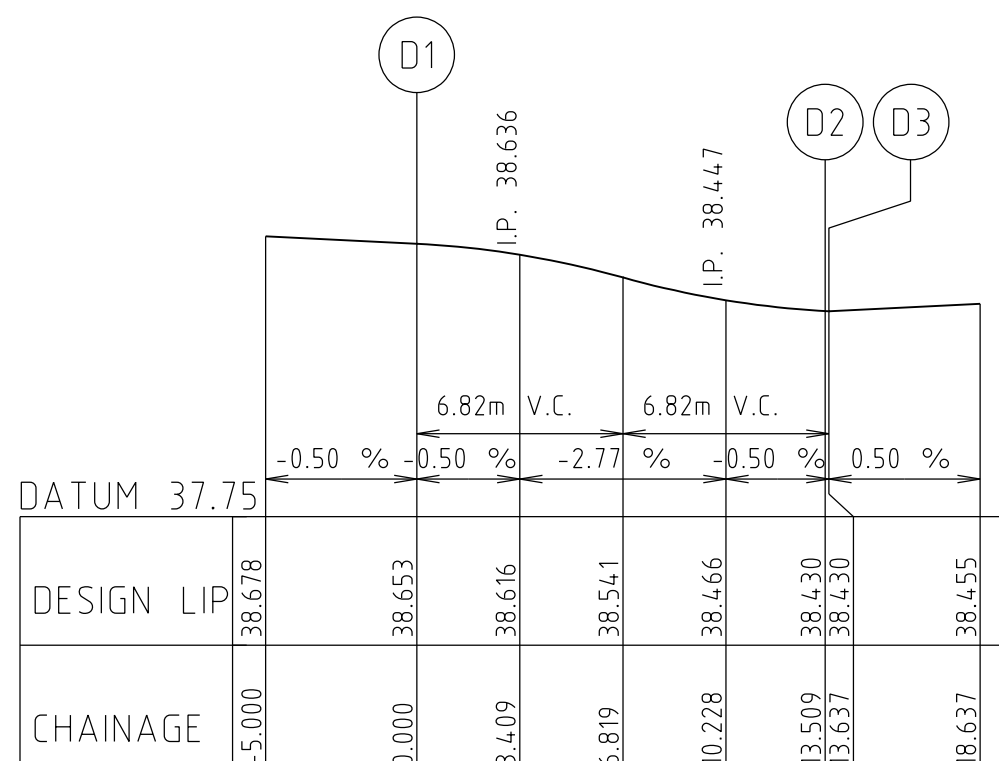
LIP LINE E
Hor250
Ver25



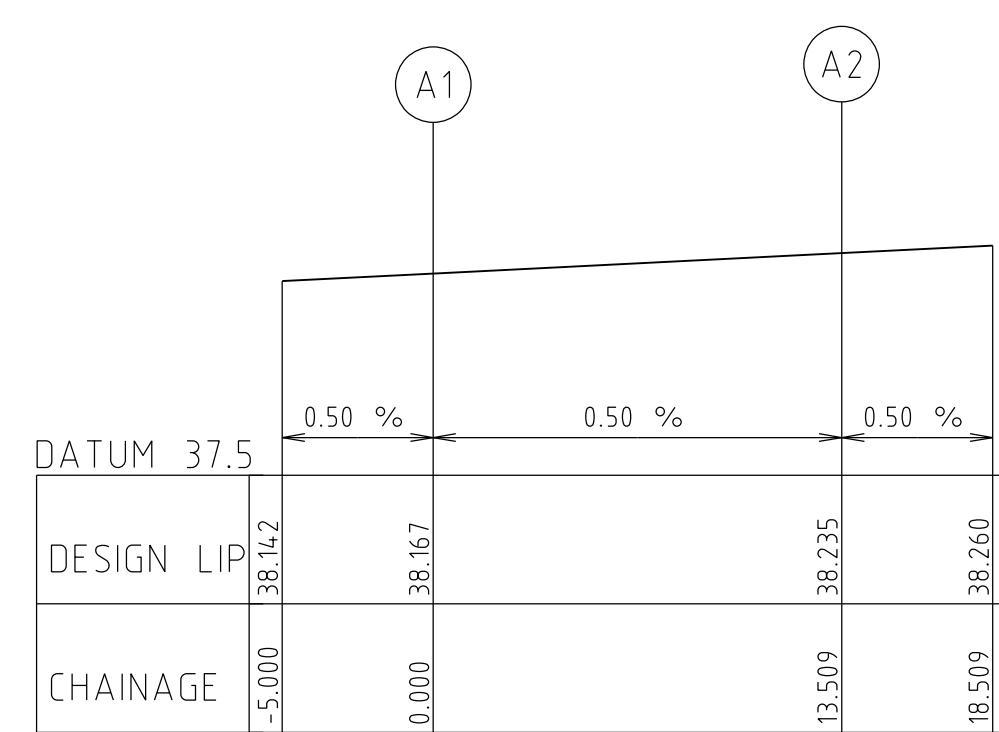
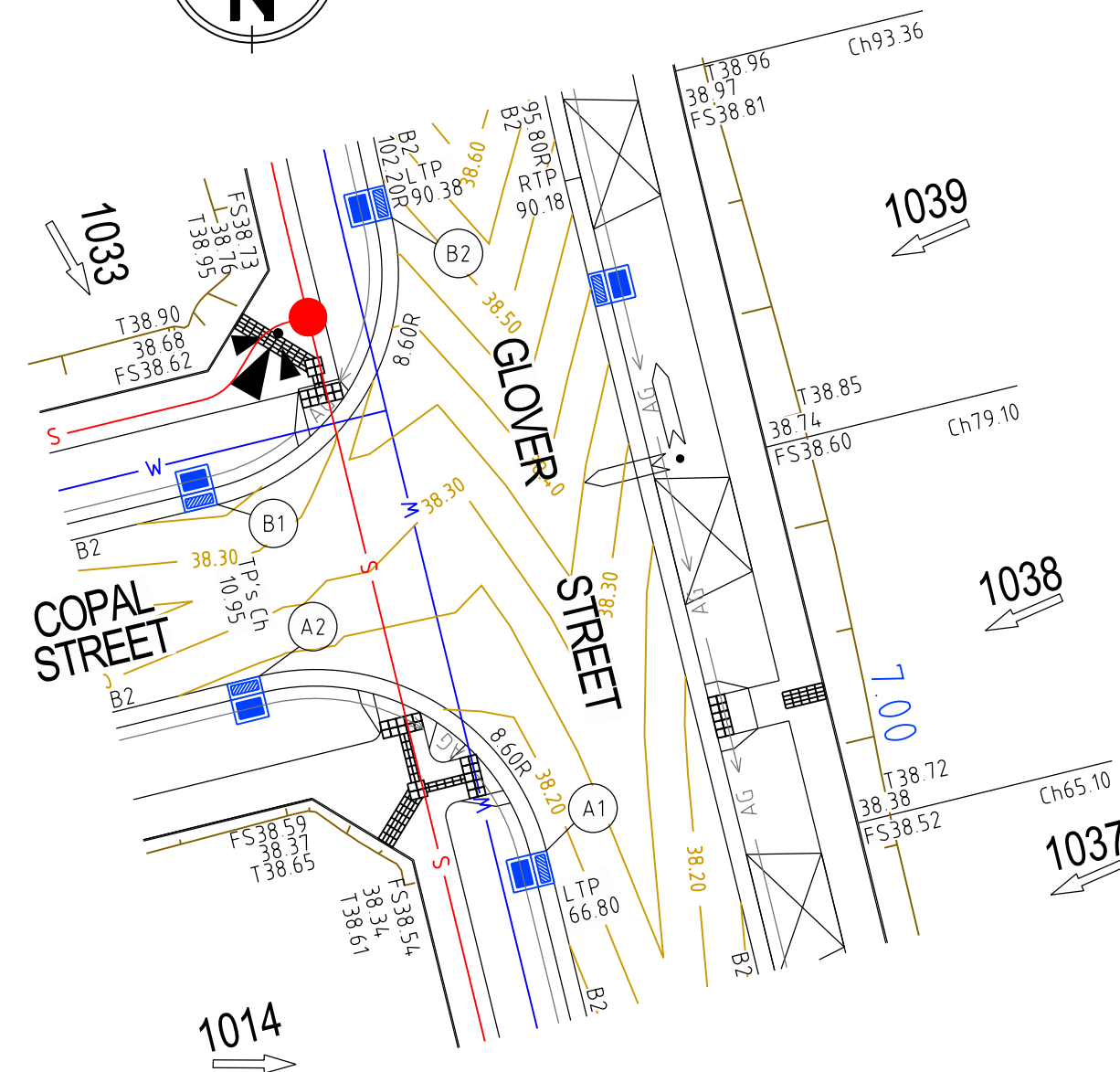
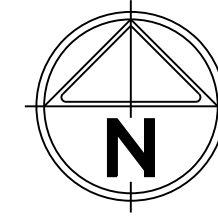
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Hor250
Ver25



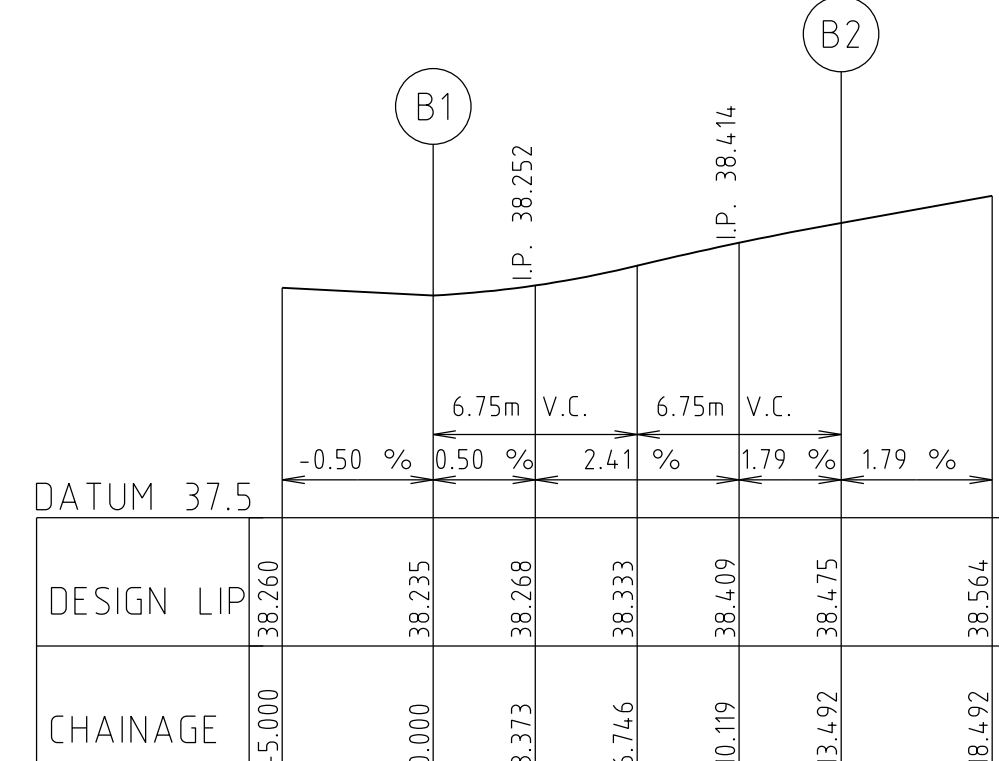
LIP LINE C
Hor250
Ver25



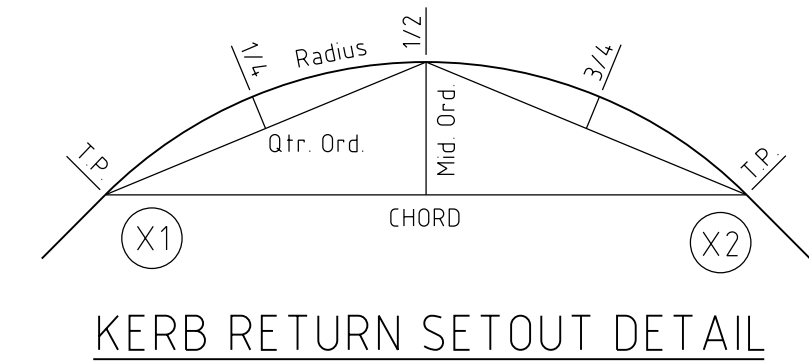
LIP LINE D
Hor250
Ver25



LIP LINE A
Hor250
Ver25



LIP LINE B
Hor250
Ver25



ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	288034.348	5803465.634	38.959
E2	288030.229	5803465.071	38.980
E3	288026.109	5803464.508	39.001
1/4	288022.226	5803464.870	39.021
1/2	288018.902	5803466.909	39.041
3/4	288016.821	5803470.207	39.060
E4	288016.410	5803474.085	39.080
E5	288016.920	5803478.212	39.101
E6	288017.431	5803482.338	39.122

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E3-E4	8.600	15.736	13.631	3.355	0.884

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	288107.826	5803490.944	38.430
1/4	288108.943	5803487.733	38.456
1/2	288111.217	5803485.206	38.499
3/4	288114.293	5803483.758	38.533
C2	288117.690	5803483.614	38.534

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	13.690	12.290	2.583	-0.672

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	288187.776	5803483.222	38.167
1/4	288186.359	5803486.264	38.184
1/2	288183.886	5803488.532	38.201
3/4	288180.733	5803489.681	38.218
A2	288177.381	5803489.535	38.235

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	13.509	12.162	2.519	-0.655

ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	288023.782	5803481.552	39.122
1/4	288024.193	5803477.674	39.092
1/2	288026.275	5803474.376	39.041
3/4	288029.599	5803472.337	38.989
F2	288033.482	5803471.975	38.959

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	8.600	15.736	13.631	3.355	-0.884

ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	288094.146	5803480.265	38.653
1/4	288097.318	5803481.359	38.617
1/2	288099.830	5803483.584	38.543
3/4	288101.299	5803486.601	38.468
D2	288101.502	5803489.950	38.430
D3	288101.485	5803490.078	38.430

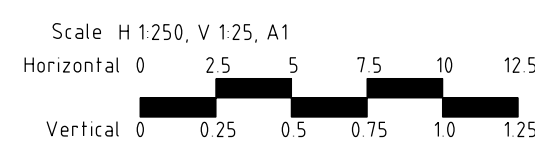
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	13.509	12.162	2.519	-0.655

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	288175.862	5803495.753	38.235
1/4	288178.901	5803497.167	38.268
1/2	288181.168	5803499.636	38.333
3/4	288182.319	5803502.783	38.409
B2	288182.180	5803506.132	38.475

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	13.492	12.150	2.513	-0.653

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R. WEINBER
Authorised
M. LETSON

Checked
J. KOEHLER
Date
3/04/19

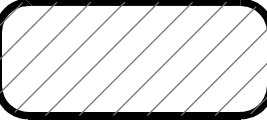
MAMBOURIN ESTATE
STAGE 10

INTERSECTION DETAILS
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

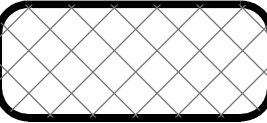
CONSTRUCTION Drg No 305175R09

Rev 0

CRUSHED ROCK BACKFILL LEGEND



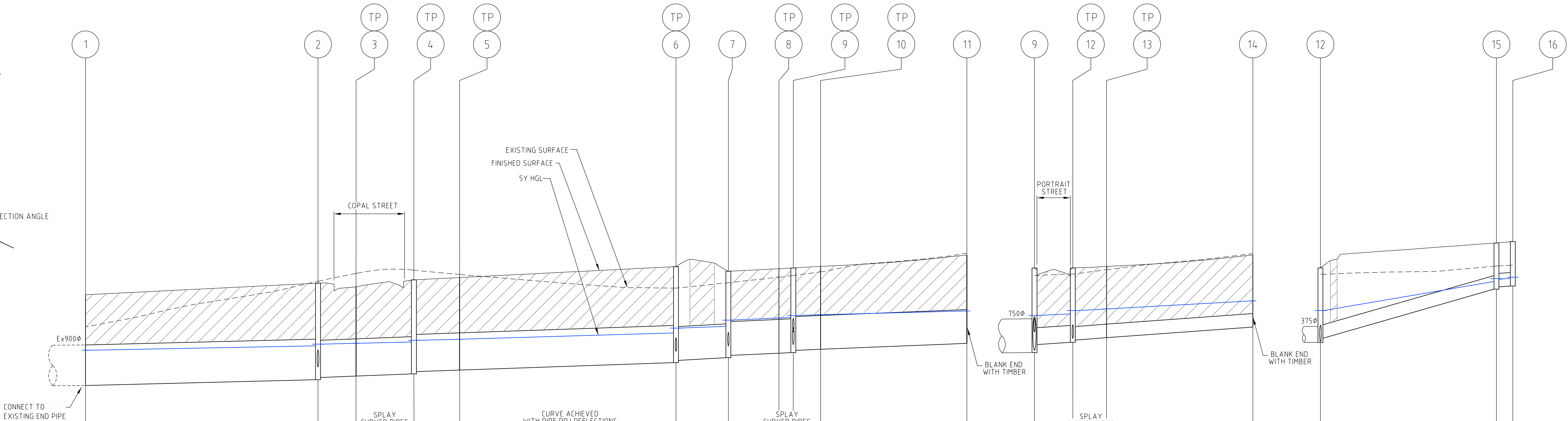
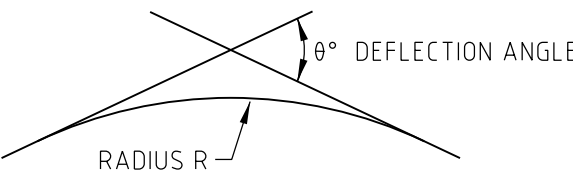
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

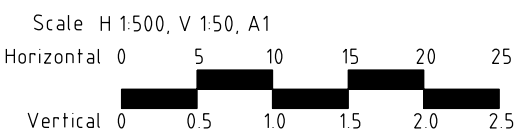
NOTE:

- 1 ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE
2 DRAINAGE PIPES GREATER THAN 750Ø ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS
3 CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE. CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK
4 CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING EITHER:
a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION



Pipe Class	CLASS 3	CLASS 3	CLASS 3	CLASS 3	CLASS 3	CLASS 3	CLASS 4	CLASS 4	CLASS 4	CLASS 4	CLASS 3	CLASS 3	CLASS 3	CLASS 2	CLASS 2
Pipe Diameter	900Ø FJ	825Ø FJ	825Ø FJ	825Ø FJ	825Ø FJ	750Ø	750Ø	750Ø	750Ø	750Ø	375Ø	300Ø	300Ø	300Ø	300Ø
Pipe Grade	1 in 400	1 in 269	1 in 269	1 in 291	1 in 291	1 in 194	1 in 230	1 in 230	1 in 250	1 in 250	1 in 170	1 in 138	1 in 138	1 in 36	1 in 182
Vf (m/s)	Vf=1.558	Vf=1.802	Vf=1.802	Vf=1.734	Vf=1.734	Vf=2.005	Vf=1.839	Vf=1.839	Vf=1.763	Vf=1.763	Vf=1.385	Vf=1.335	Vf=1.335	Vf=2.633	Vf=1.160
Qactual (m3/s)	Qa=0.929	Qa=0.858	Qa=0.863	Qa=0.857	Qa=0.874	Qa=0.809	Qa=0.800	Qa=0.801	Qa=0.648	Qa=0.657	Qa=0.125	Qa=0.080	Qa=0.082	Qa=0.048	Qa=0.048
Qfull (m3/s)	Qf=0.991	Qf=0.963	Qf=0.963	Qf=0.927	Qf=0.927	Qf=0.886	Qf=0.812	Qf=0.812	Qf=0.779	Qf=0.779	Qf=0.153	Qf=0.094	Qf=0.094	Qf=0.186	Qf=0.082
DATUM R.L.	31.00										31.00			31.00	
DEPTH TO INVERT	36.032 2.013	36.032 2.013	36.161 2.142	36.211 2.092	36.242 1.980	36.242 1.980	36.290 2.087	36.340 2.037	36.375 2.053	36.375 2.053	36.763 1.878	36.940 1.700	36.940 1.700	36.990 1.651	36.990 1.651
DESIGN INVERT LEVEL	36.032	36.032	36.161	36.211	36.242	36.242	36.290	36.340	36.375	36.375	36.763	36.940	36.940	36.990	36.990
HYDRAULIC GRADE LEVEL	36.813	36.813	36.913	36.950	36.969	36.969	36.998	37.034	37.060	37.060	37.543	37.586	37.586	37.620	37.620
FINISHED SURFACE LEVEL	38.045	38.303	38.303	38.223	38.223	38.223	38.377	38.377	38.428	38.428	38.640	38.640	38.640	38.640	38.640
EXISTING SURFACE LEVEL	37.330	38.344	38.344	38.223	38.223	38.223	38.592	38.592	38.496	38.496	38.473	38.504	38.504	38.504	38.504
CHAINAGE	0.000	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600

0	CONSTRUCTION ISSUE	M.L.	05-07-19
Rev	Amendments	Approved	Date



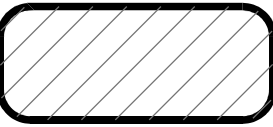
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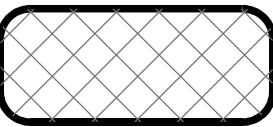
FRASERS PROPERTY
Designed R. WEINBER
Authorised M. LETSON
Checked J. KOEHLER
Date 3/04/19

**MAMBOURIN ESTATE
STAGE 10
DRAINAGE LONG SECTION
SHEET 1 OF 4**
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION Drg No 305175R10 Rev 0

CRUSHED ROCK BACKFILL LEGEND



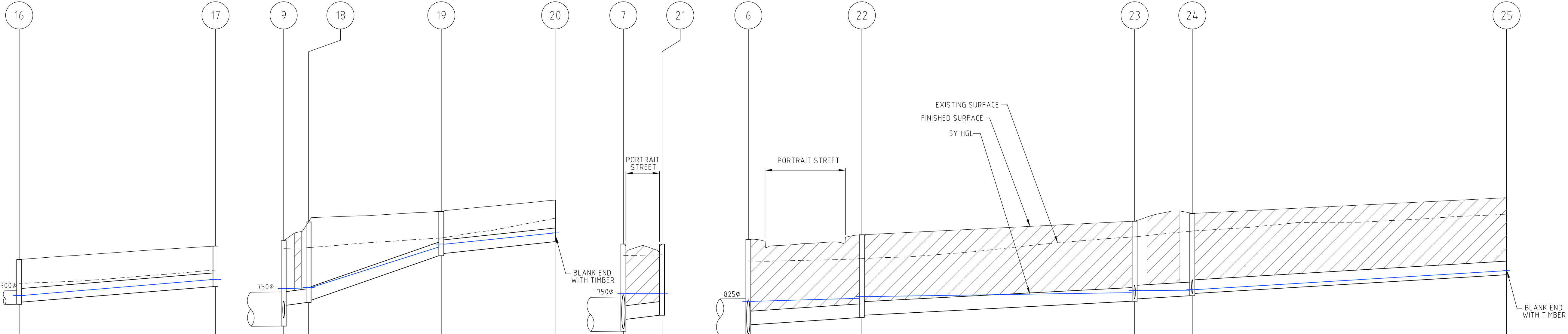
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

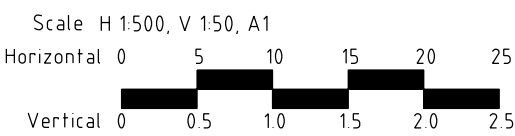
NOTE:

1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE
2. DRAINAGE PIPES GREATER THAN 750Ø ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS
3. CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE
CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK
4. CURVED PIPE ALIGNMENTS TO BE ACHIVED USING EITHER:
a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION



Pipe Class	CLASS 2	CLASS 4	CLASS 2	CLASS 2	CLASS 3	CLASS 2	CLASS 2	CLASS 2	CLASS 2
Pipe Diameter	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø	300Ø
Pipe Grade	1 in 127	1 in 91	1 in 30	1 in 96	1 in 94	1 in 156	1 in 194	1 in 181	1 in 168
Vf (m/s)	Vf=1.392	Vf=1.643	Vf=2.888	Vf=1.600	Vf=1.616	Vf=1.254	Vf=1.125	Vf=1.162	Vf=1.209
Qactual (m3/s)	Qa=0.042	Qa=0.060	Qa=0.061	Qa=0.062	Qa=0.008	Qa=0.056	Qa=0.047	Qa=0.025	Qa=0.014
Qfull (m3/s)	Qf=0.098	Qf=0.116	Qf=0.204	Qf=0.113	Qf=0.114	Qf=0.089	Qf=0.079	Qf=0.082	Qf=0.085
DATUM R.L.	32.00	31.00			31.00	31.00			
DEPTH TO INVERT	38.240 0.987	37.543 36.763 1.878	37.586 37.220 1.420	38.310 0.976	37.344 36.650 1.917	37.307 36.790 1.880	37.498 37.310 1.761	37.548 37.360 1.711	37.430 1.810
DESIGN INVERT LEVEL	38.290 0.937	37.602 37.280 1.773	37.611 37.330 1.723	38.360 0.926	37.483 36.910 1.657	37.400 37.000 1.771	37.552 37.430 1.810	37.563 37.480 1.760	37.892 1.694
HYDRAULIC GRADE LEVEL	38.435 38.290	38.489 39.053	38.501 38.310	38.588 38.360	38.567 37.344	38.771 37.372	39.071 37.498	39.240 37.552	39.586 37.981
FINISHED SURFACE LEVEL	39.227 38.703	39.227 38.703	39.227 38.703	39.227 38.703	39.227 38.703	39.227 38.703	39.227 38.703	39.227 38.703	39.227 38.703
EXISTING SURFACE LEVEL	39.523 38.995	39.523 38.995	39.523 38.995	39.523 38.995	39.523 38.995	39.523 38.995	39.523 38.995	39.523 38.995	39.523 38.995
CHAINAGE	42.697 85.888	5.486 34.695	5.486 34.695	5.486 34.695	8.501 59.749	24.959 84.987	97.685 166.825	97.685 166.825	97.685 166.825
	L=43.191m	L=29.209m	L=25.054m		L=8.501m	L=24.959m	L=12.698m	L=69.139m	

0	CONSTRUCTION ISSUE	M.L.	05-07-19
Rev	Amendments	Approved	Date



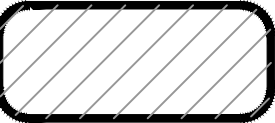
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FRASERS PROPERTY
Designed
R. WEINBER
Authorised
M. LETSON
Checked
J. KOEHLER
Date
3/04/19

**MAMBOURIN ESTATE
STAGE 10
DRAINAGE LONG SECTION
SHEET 2 OF 4**
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION Drg No 305175R11 Rev 0

CRUSHED ROCK BACKFILL LEGEND



CLASS 2 CRUSHED ROCK

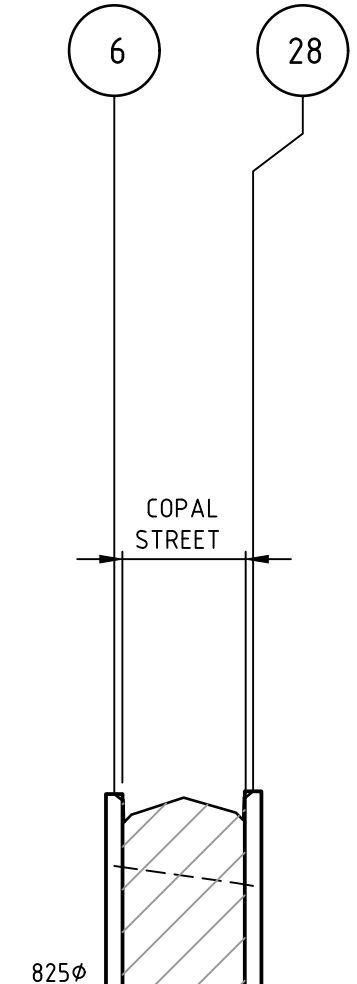
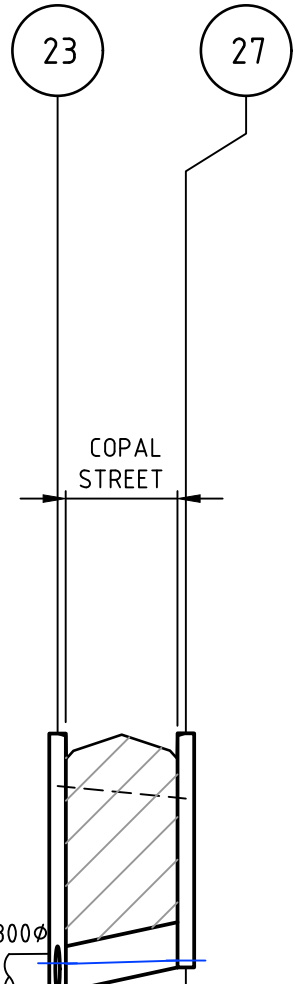
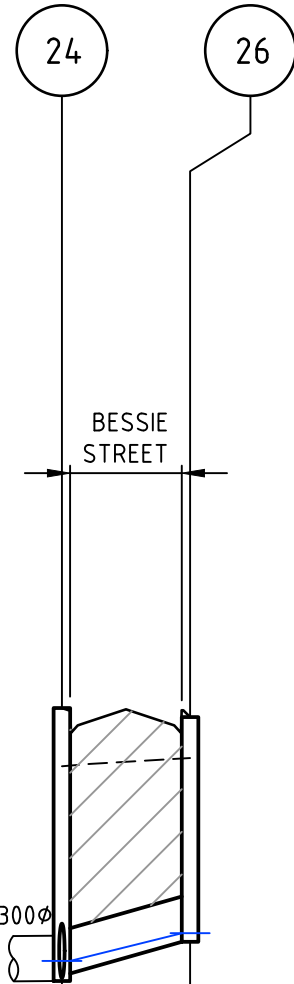


CLASS 3 CRUSHED ROCK

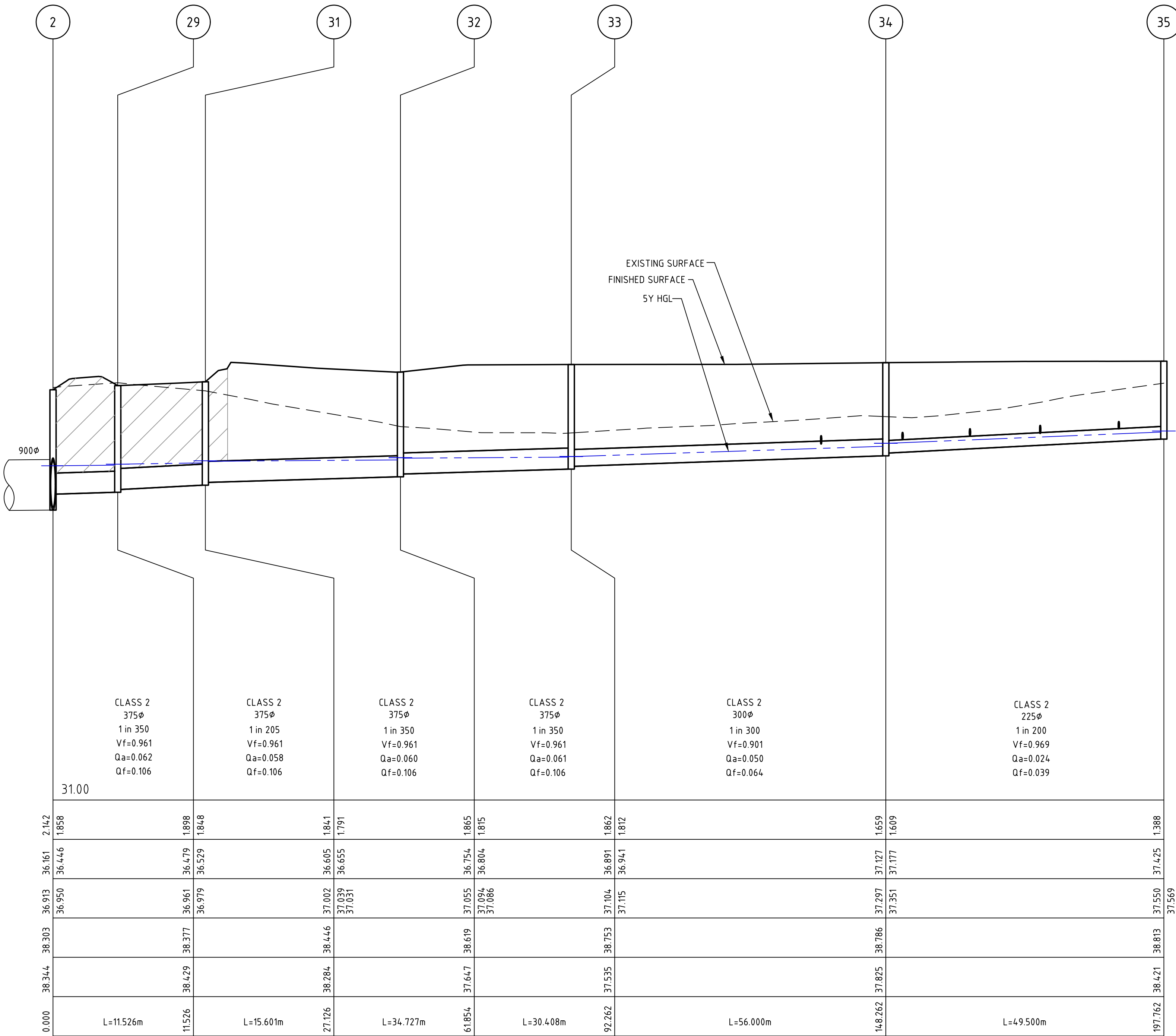
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Pipe Class	CLASS 3
Pipe Diameter	300Ø
Pipe Grade	1 in 40
Vf (m/s)	Vf=2.477
Qactual (m3/s)	Qa=0.006
Qfull (m3/s)	Qf=0.175
DATUM R.L.	31.00
DEPTH TO INVERT	1.810
DESIGN INVERT LEVEL	37.430
HYDRAULIC GRADE LEVEL	37.552
FINISHED SURFACE LEVEL	39.240
EXISTING SURFACE LEVEL	38.854
CHAINAGE	0.000

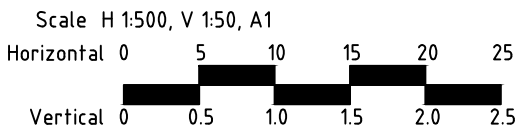


Pipe Class	CLASS 3
Pipe Diameter	300Ø
Pipe Grade	1 in 53
Vf (m/s)	Vf=2.159
Qactual (m3/s)	Qa=0.004
Qfull (m3/s)	Qf=0.153
DATUM R.L.	31.00
DEPTH TO INVERT	1.761
DESIGN INVERT LEVEL	37.360
HYDRAULIC GRADE LEVEL	37.548
FINISHED SURFACE LEVEL	39.071
EXISTING SURFACE LEVEL	38.723
CHAINAGE	0.000



Pipe Class	CLASS 2
Pipe Diameter	375Ø
Pipe Grade	1 in 350
Vf (m/s)	Vf=0.961
Qactual (m3/s)	Qa=0.062
Qfull (m3/s)	Qf=0.106
DATUM R.L.	31.00
DEPTH TO INVERT	1.858
DESIGN INVERT LEVEL	36.446
HYDRAULIC GRADE LEVEL	36.913
FINISHED SURFACE LEVEL	38.303
EXISTING SURFACE LEVEL	38.344
CHAINAGE	0.000

1	AMENDED LOT LAYOUT	M.L.	29-05-20
0	CONSTRUCTION ISSUE	M.L.	05-07-19
Rev	Amendments	Approved	Date



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Designed
R. WEINBER
Authorised
M. LETSON

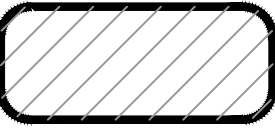
Checked
J. KOEHLER
Date
29/05/20

MAMBOURIN ESTATE
STAGE 10
DRAINAGE LONG SECTION
SHEET 3 OF 4

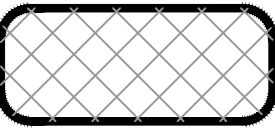
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WYNDHAM CITY COUNCIL

CONSTRUCTION Drg No 305175R12 Rev 1

CRUSHED ROCK BACKFILL LEGEND



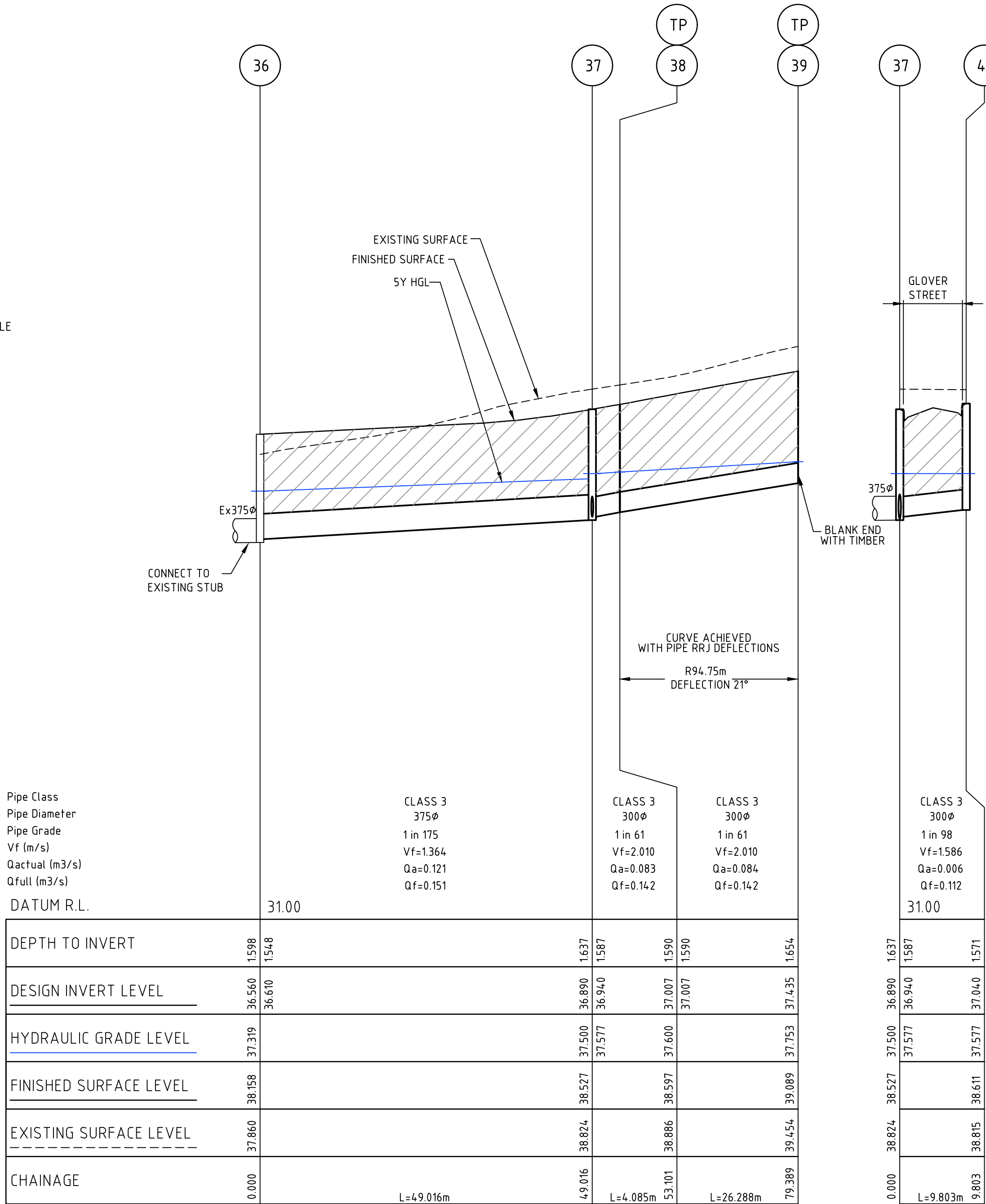
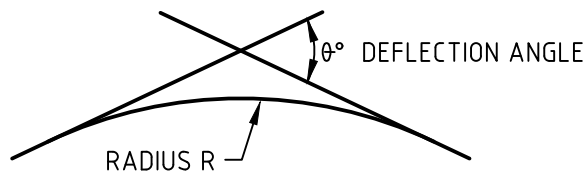
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

NOTE:

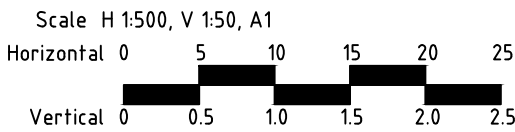
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DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	LENGTH	WIDTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1	EXISTING END PIPE			900	36.032			38.045	2.013	CONNECT EXISTING END PIPE CONSTRUCTED WITH STAGE 3 WORKS
2	SIDE ENTRY PIT GRATED	900	1050	825	36.211	900	36.161	38.303	2.142	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
3	TANGENT POINT			825	36.446					
4	SIDE ENTRY PIT GRATED	900	1050	825	36.242	825	36.242	38.223	1.980	PIPE TANGENT POINT
5	TANGENT POINT			825	36.340					REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
6	TANGENT POINT			825	36.375	825	36.290	38.377	2.087	PIPE TANGENT POINT
7	JUNCTION PIT	1350	1050	750	36.375	825	36.375	38.428	2.053	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING UNDER KERB)
				300	36.590					
				300	36.790					
				300	36.790					
7	SIDE ENTRY PIT GRATED	900	1350	750	36.790	750	36.540	38.670	2.130	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
				300	36.700					
				300	36.910					
8	TANGENT POINT			750	36.749	750	36.650	38.567	1.917	PIPE TANGENT POINT
9	JUNCTION PIT	900	900	750	36.749	750	36.749	38.623	1.874	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING UNDER KERB)
				375	36.813					
				300	36.940					
				300	37.220					
10	TANGENT POINT			750	36.837	750	36.763	38.640	1.878	PIPE TANGENT POINT
11	END PIPE									
12	JUNCTION PIT	900	600	750	36.837	750	36.837	38.675	1.838	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING UNDER KERB)
				300	36.967					
				300	36.990					
13	TANGENT POINT			300	37.040	375	36.990	38.641	1.651	REFER DRAWING - EDCM 605
				300	37.080					
13	TANGENT POINT			300	37.094	300	37.094	38.675	1.580	PIPE TANGENT POINT
14	END PIPE					300	37.330	38.929	1.599	BLANK END WITH TIMBER
15	JUNCTION PIT	900	600	300	37.330	300	37.330	38.929	1.599	REFER DRAWING - EDCM 605
16	JUNCTION PIT	900	600	300	38.220	300	38.170	39.195	1.025	REFER DRAWING - EDCM 605
17	JUNCTION PIT	900	600	300	38.290	300	38.240	39.227	0.987	REFER DRAWING - EDCM 605
18	JUNCTION PIT	900	600	300	38.630	300	38.630	39.523	0.893	REFER DRAWING - EDCM 605 (PROVIDE 225 STUB AT IL38.68)
19	JUNCTION PIT	900	600	300	37.330	300	37.280	39.053	1.773	REFER DRAWING - EDCM 605
20	JUNCTION PIT	900	600	300	38.360	300	38.310	39.286	0.976	REFER DRAWING - EDCM 605
21	END PIPE					300	38.620	39.536	0.916	BLANK END WITH TIMBER
22	SIDE ENTRY PIT GRATED	900	600			300	38.000	38.566	1.566	REFER DRAWING - EDCM 601
23	SIDE ENTRY PIT GRATED	900	600	300	37.000	300	36.950	38.771	1.821	REFER DRAWING - EDCM 601
24	JUNCTION PIT	900	600	300	37.360	300	37.310	39.071	1.761	REFER DRAWING - EDCM 605
				300	37.360					
24	SIDE ENTRY PIT GRATED	900	600	300	37.480	300	37.480	39.240	1.810	REFER DRAWING - EDCM 601
				300	37.480					
25	END PIPE					300	37.892	39.586	1.694	BLANK END WITH TIMBER
26	SIDE ENTRY PIT GRATED	900	600			300	37.690	39.180	1.490	REFER DRAWING - EDCM 601
27	SIDE ENTRY PIT GRATED	900	600			300	37.520	39.073	1.553	REFER DRAWING - EDCM 601
28	SIDE ENTRY PIT GRATED	900	600			300	37.060	38.688	1.628	REFER DRAWING - EDCM 601
29	SIDE ENTRY PIT GRATED	900	600	375	36.529	375	36.479	38.377	1.898	REFER DRAWING - EDCM 601
31	JUNCTION PIT	900	600	375	36.655	375	36.605	38.446	1.841	REFER DRAWING - EDCM 605 (PROVIDE HEAVY DUTY COVER)
32	JUNCTION PIT	900	600	375	36.804	375	36.754	38.619	1.865	REFER DRAWING - EDCM 605
33	JUNCTION PIT	900	600	300	36.941	375	36.891	38.753	1.862	REFER DRAWING - EDCM 605
34	JUNCTION PIT	900	600	225	37.177	300	37.127	38.786	1.659	REFER DRAWING - EDCM 605
35	JUNCTION PIT	900	600			225	37.425	38.813	1.388	REFER DRAWING - EDCM 605
36	END PIPE			375	36.610			38.158	1.598	CONNECT EXISTING STUB CONSTRUCTED WITH STAGE 9 WORKS
37	SIDE ENTRY PIT GRATED	900	600	300	36.940	375	36.890	38.527	1.637	REFER DRAWING - EDCM 601
				300	36.940					
38	TANGENT POINT			300	37.007	300	37.007	38.597	1.590	PIPE TANGENT POINT
39	END PIPE					300	37.435	39.089	1.654	BLANK END WITH TIMBER
40	SIDE ENTRY PIT GRATED	900	600			300	37.040	38.611	1.571	REFER DRAWING - EDCM 601

1	AMENDED LOT LAYOUT	M.L.	29-05-20
0	CONSTRUCTION ISSUE	M.L.	05-07-19
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FRASERS PROPERTY
Designed
R. WEINBER
Authorised
M. LETSON

Checked
J. KOEHLER
Date
29/05/20

MAMBOURIN ESTATE
STAGE 10
DRAINAGE LONG SECTION & PIT SCHEDULE
SHEET 4 OF 4
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL
CONSTRUCTION
Org No
305175R13
Rev
1

ROAD TYPE DESIGNATIONS

ROAD NAME	ROAD PAVEMENT TYPE
BESSIE STREET	ACCESS STREET LEVEL 1
COPAL STREET	ACCESS STREET LEVEL 1
PORTRAIT STREET	ACCESS STREET LEVEL 1
GLOVER STREET	ACCESS STREET LEVEL 1

450mm

200mm WIDE x 300mm DEEP
CONCRETE EDGE STRIP

PAVEMENT DESIGN
AS SPECIFIED

G DRAIN
REFER MPA
TO DWG 020

TEMPORARY BOLLARDS
AROUND TEMPORARY
TURNAROUND

ROAD CLOSE
SIGNAGE

ISUR

SUPPLY AND INSTALL CONCRETE
EDGE STRIP AS SPECIFIED
INCLUDING AG DB/IN

INSTALL TEMPORARY 10.5m
RADIUS 200mm THICK COMPACTED
20mmCLASS 3 FCR AS
HARDSTAND TURNING AREA



1:1000, A1

0 10 20 30 40 50

1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.

2.ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH

3. CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.

4. PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.

5. CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.

6 SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.

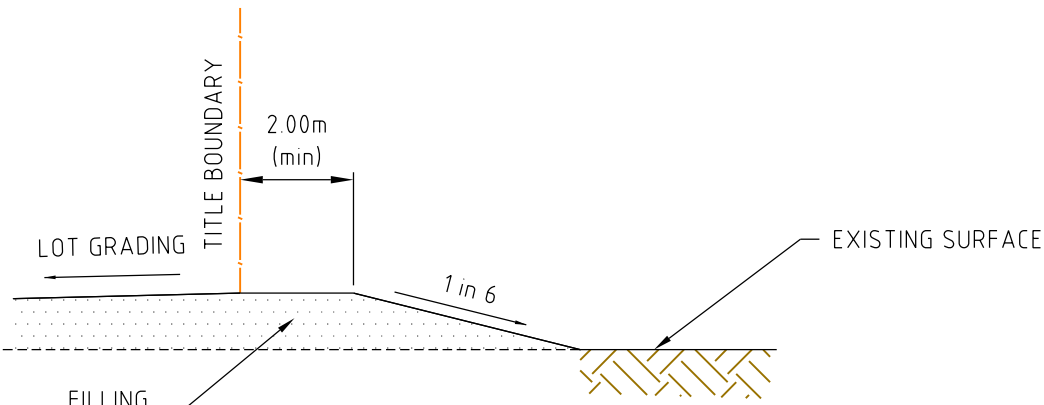
7 ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE.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

8. ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY COFFEY SERVICES AUSTRALIA 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.

SPHIRE 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 COFFEY SERVICES AUSTRALIA PTY LTD AND SENT TO SPIRE.



The diagram illustrates the cross-section of a lot during regrading. It shows a vertical profile with the following components from top to bottom:

- FINISHED SURFACE LEVEL**: The top line of the regraded surface, indicated by a solid line.
- CONTROLLED FILL**: The area between the finished surface and the existing surface, filled with a cross-hatch pattern.
- TOPSOIL PLACEMENT**: A layer of topsoil placed over the controlled fill, indicated by a diagonal hatch pattern.
- STRIP TOPSOIL**: A narrow strip of topsoil placed along the edge of the lot, indicated by a diagonal hatch pattern.
- EXISTING SURFACE LEVEL**: The original ground level, indicated by a dashed line.
- FILL 200mm THICK**: A label indicating the thickness of the topsoil layer.

A cross-sectional diagram of a road construction detail. The diagram shows a concrete path on the left, a crossfall sloping downwards to the right, and a nature strip on the far right. The concrete path is labeled '125mm THICK N25 CONCRETE PATH WITH SL72 MESH 50mm TOP COVER MESH TO HAVE 50mm COVER TO ALL EDGES'. The crossfall is labeled '1 IN 50 CROSSFALL' and is shown with a stippled texture. The nature strip is labeled 'NATURE STRIP'. Dimensions are indicated: a vertical line on the left is labeled 'TITLE BOUNDARY', a horizontal dimension of '50' is shown for the concrete path width, a horizontal dimension of '1500 / 3000' is shown for the crossfall width, and a horizontal dimension of '75' is shown for the nature strip width. Two callout lines point from the text labels to the corresponding layers in the cross-section.

Diagram of a rectangular panel with a width of 200. The bottom edge is labeled "EDGE STRIP" and is hatched.

Diagram illustrating the installation of a Geofabric Silt Fence in an open drain cross section. The fence is installed to manufacturer specifications, with the top edge inverted. A stake is used to secure the fence. The geofabric extends below the finished surface.

Labels in the diagram:

- INVERT
- GEOFABRIC SILT FENCE TO BE INSTALLED TO MANUFACTURERS SPECIFICATIONS
- STAKE
- GEOFABRIC TO EXTEND BELOW FINISHED SURFACE
- OPEN DRAIN CROSS SECTION
- GEOFABRIC SILT FENCE

SILT CONTROL FOR LOTS

SILT CONTROL OPTIONS

NOTE FOR SAMI TREATMENT
DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL
REQUIREMENTS, SHOULD COMPLY WITH STANDARD
SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS
SECTION 408 AND THE CURRENT AUSTRROADS SPRAYED
SEAL DESIGN METHOD.

NOTES:

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

MAMBOURIN ESTATE

STAGE 10

PAVEMENT PLAN AND TYPICAL DETAILS

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Digit No **305175R14**

Rev
0

NOT TO SCALE



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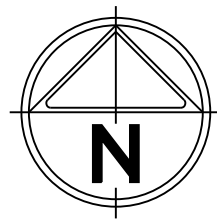
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Authorised
M. LETSON

Checked
J. KOEHLER

Date
3/04/19

0	CONSTRUCTION ISSUE	M.L.	05-07-19
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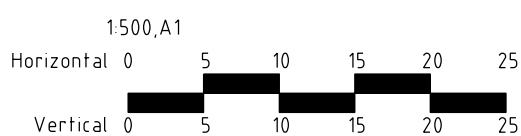
LEGEND

- 1 STREET NAME PLATE TO BE IN ACCORDANCE WITH HCC SD4.08 & SD4.12, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- 2 ROAD CLOSED G9-20
- 3 D4-5
- 4 D4-1-2 (L) D4-1-2 (R)
- 5
- TGSI KERB RAMP HAZARD / DIRECTIONAL TGSI'S SHOW INDICATIVELY. FOOTPATH RAMP SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDM 403. TGSI'S SHALL CONFORM TO SECTION 211 VICOADS TRAFFIC ENG MANUAL VOL. 2
- TGSI DIRECTIONAL
- 1-WAY RRP (5m SPACING) RRP'S SHALL CONFORM TO SECTION 19.1 VICOADS TRAFFIC ENG MANUAL VOL. 2

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

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Designed
R. WEINBER
Authorised
M. LETSON
Checked
J. KOEHLER
Date
3/04/19

MAMBOURIN ESTATE
STAGE 10
SIGNAGE & LINEMARKING

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No 305175R15 Rev 0