

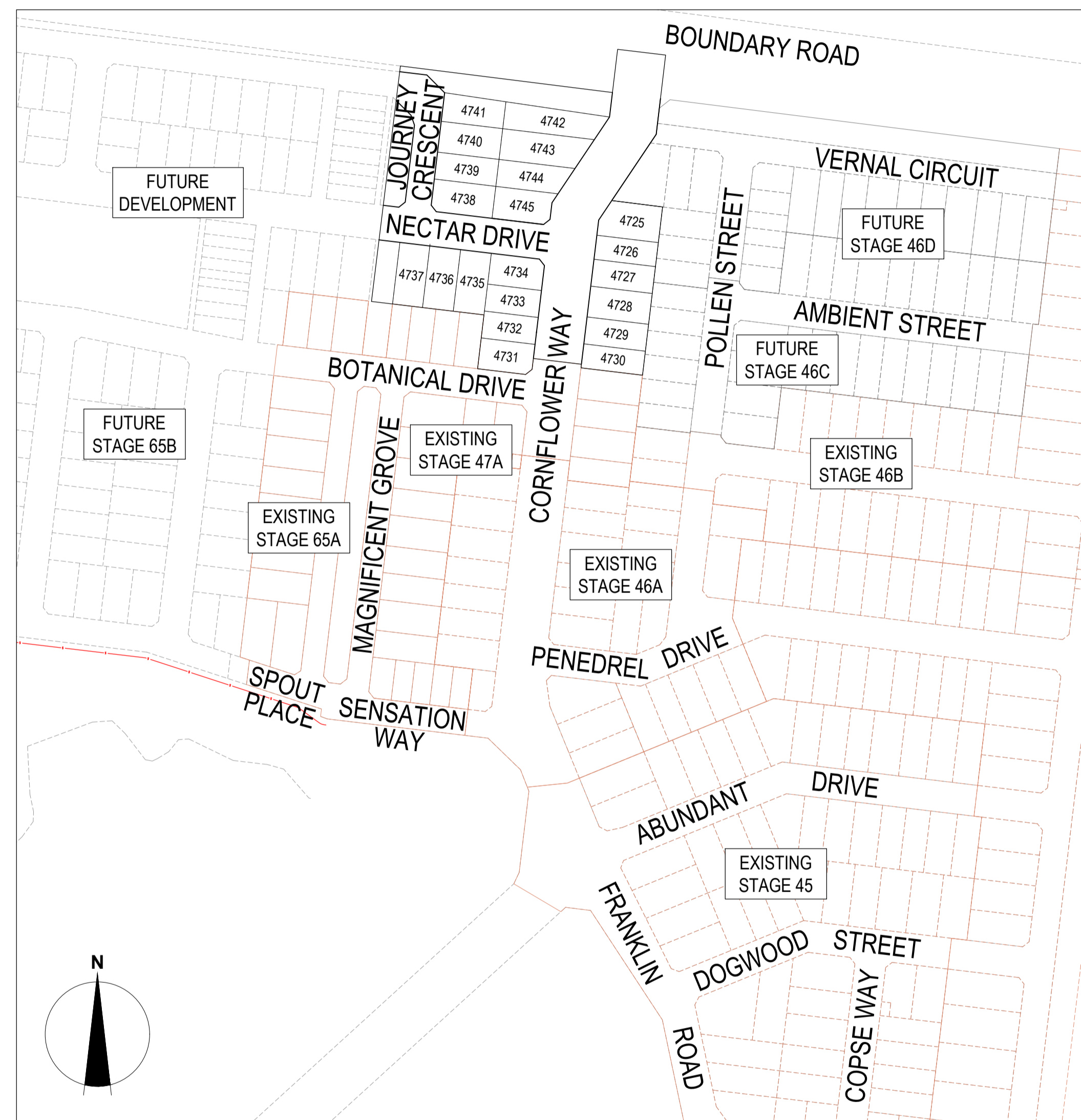
ARMSTRONG

STAGE 47B

CITY OF GREATER GEELONG

GENERAL NOTES:

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS AND GREATER GEELONG CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL:
 - COMPLY WITH THE "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" (CODE OF PRACTICE No.8, 1998)
 - NOTIFY WORK SAFE OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED IN ACCORDANCE WITH COUNCIL'S PLANNING PERMIT. NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE TREE PROTECTION ZONE OF ANY EXISTING TREE WITHOUT WRITTEN APPROVAL FROM COUNCIL'S ENVIRONMENT DEPARTMENT.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE RESURFACED WITH A 150mm LAYER OF TOPSOIL AS SPECIFIED.
- NO TOPSOIL TO BE REMOVED FROM SITE.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
- FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-1996. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT.
- FILLING UNDER DRIVEWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN LAYERS 150mm DEPTH. COMPACTION ACHIEVING A MINIMUM DENSITY RATIO OF 98% (STANDARD) IN ACCORDANCE WITH AS1289 CLAUSE 5.1.1.
- CUT AND FILL BATTER SLOPES ARE NOT TO EXCEED 1 in 6 UNLESS SHOWN OTHERWISE.
- ALL DRAINAGE PIPES ARE TO BE SPIGOT-SOCKET RUBBER RING JOINTED UNLESS STATED OTHERWISE.
- ALL DRAINAGE TRENCHES UNDER PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL, SHALL BE BACKFILLED WITH CRUSHED ROCK AS SPECIFIED.
- ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILIZED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
- PROPERTY INLETS AS PER INFRASTRUCTURE DESIGN MANUAL (IDM) STANDARD DRAWING SD 520 ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS SHOWN OTHERWISE.
- ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 6.0m FROM THE SIDE BOUNDARY OR FROM EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL.
- CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED (50mm STAMPED IMPRESSION) WITH THE LETTERS E (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER) AND C (COUNCIL COMMUNICATION) ABOVE CONDUIT LOCATION.
- ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROOF ROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R.
- NO COMMUNICATION PITS ARE TO BE LOCATED IN THE FOOTPATH.
- VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. VEHICLE CROSSINGS TO BE 1m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER CITY OF GREATER GEELONG "DESIGN NOTES No.4" DATED AUGUST 2012 & IDM STANDARD DRAWINGS SD205 to SD265.
- ALL PEDESTRIAN CROSSINGS TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL SD200.
- ALL STREET SIGNS TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.
- ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED, GRADED, ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- ALL AREAS OF SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURE STRIPS, LOTS AND RESERVES ARE TO BE FULLY GRASSED BY HYDRO MULCHING, WATERED AND MAINTAINED, UNTIL THE END OF MAINTENANCE PERIOD.
- ALL SLUMPS IN PRECAST CONCRETE PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE, UNLESS APPROVED OTHERWISE BY THE COUNCIL WORKS INSPECTOR.
- CITY OF GREATER GEELONG REQUIRES CCTV OF ALL DRAINAGE PIPES AND PITS, PRIOR TO THE ISSUE OF THE STATEMENT OF COMPLIANCE



LOCALITY PLAN
MELWAYS REF: 479 F1
1:2000 20 0 20 40 60 80 100 A1
1:4000 A3

NOTE:
THE SITE OF WORKS IS SUBJECT TO THE PROVISIONS OF CULTURAL HERITAGE MANAGEMENT PLAN 12748.
ALL WORKS AND PERSONNEL MUST OBSERVE THE REQUIREMENTS OF THE MANAGEMENT PLAN AT ALL TIMES.

Drawing No.	Drawing Title	Revision
R100	COVER SHEET	1
R200	LAYOUT PLAN	1
R300	INTERSECTION DETAILS - 1	1
R301	INTERSECTION DETAILS - 2	1
R400	ROAD LONGITUDINAL SECTIONS - 1	1
R401	ROAD LONGITUDINAL SECTIONS - 2	1
R500	ROAD CROSS SECTIONS - 1	1
R501	ROAD CROSS SECTIONS - 2	1
R502	ROAD CROSS SECTIONS - 3	1
R503	ROAD CROSS SECTIONS - 4	1
R504	ROAD CROSS SECTIONS - 5	1
R600	DRAINAGE LONG SECTIONS - 1	1
R601	DRAINAGE LONG SECTIONS - 2	1
R602	DRAINAGE LONG SECTIONS - 3	1
R603	DRAINAGE PIT SCHEDULE	1
R700	TYPICAL DETAILS -1	1
R701	TYPICAL DETAILS - 2	1
R800	SIGNAGE AND LINEMARKING PLAN	1
R900	DRAINAGE LAYOUT PLAN	1

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

P:\2018\18016 - VILLAWOOD ARMSTRONG\18016-479\18016-479-1100 - COVER SHEET.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

villawood
properties
Communities Designed for Living

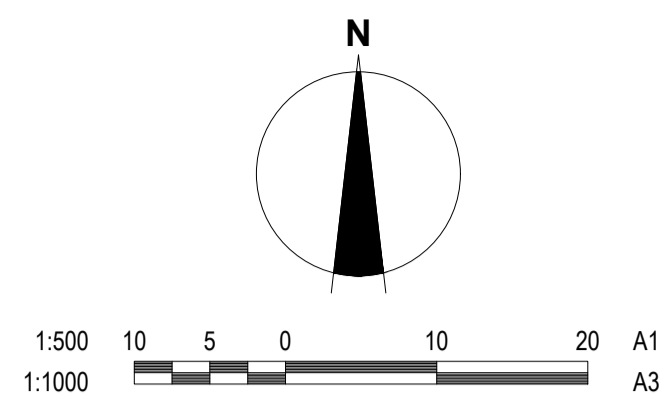
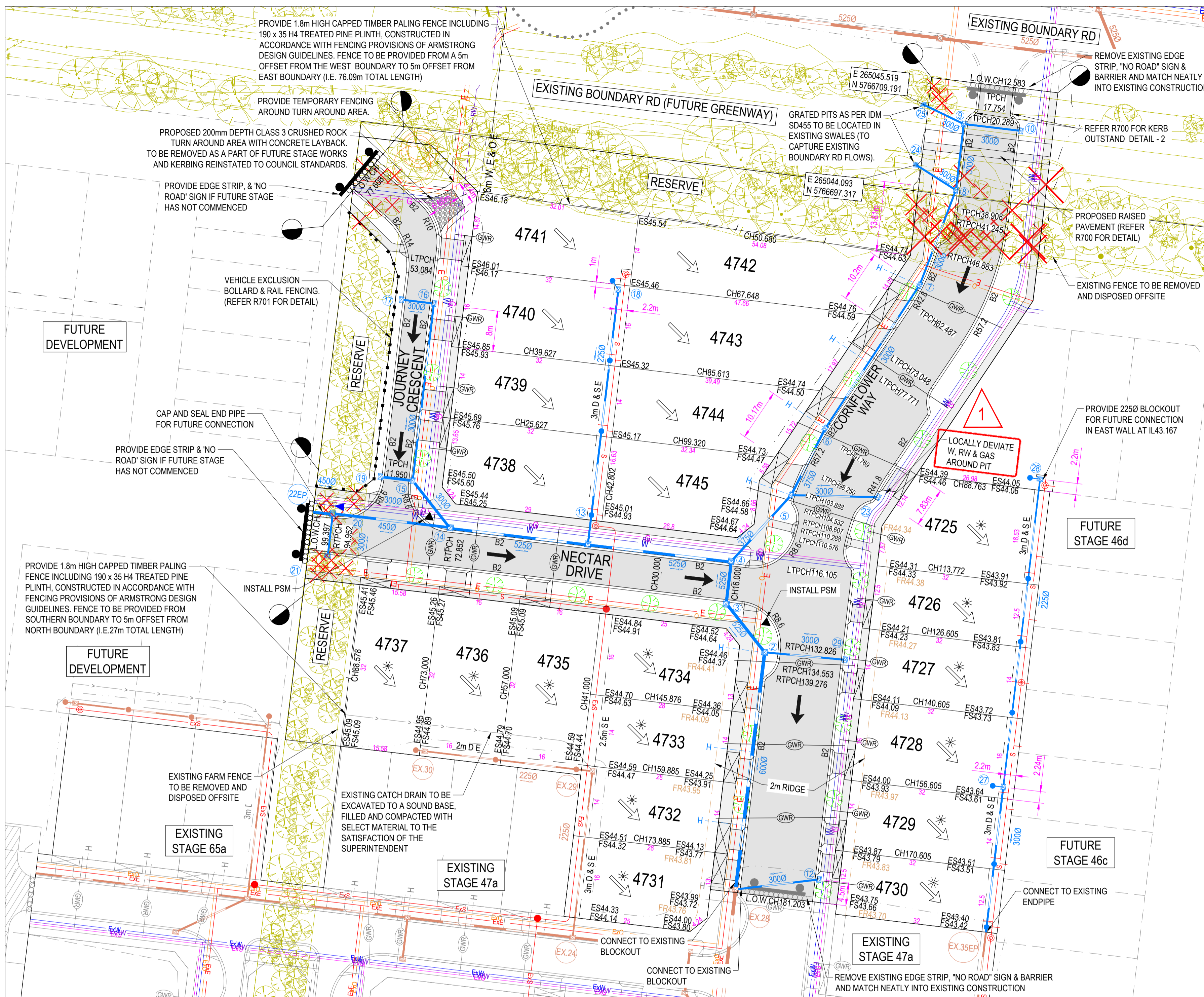
creo
CONSULTANTS
Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

ARMSTRONG
MT DUNNEE

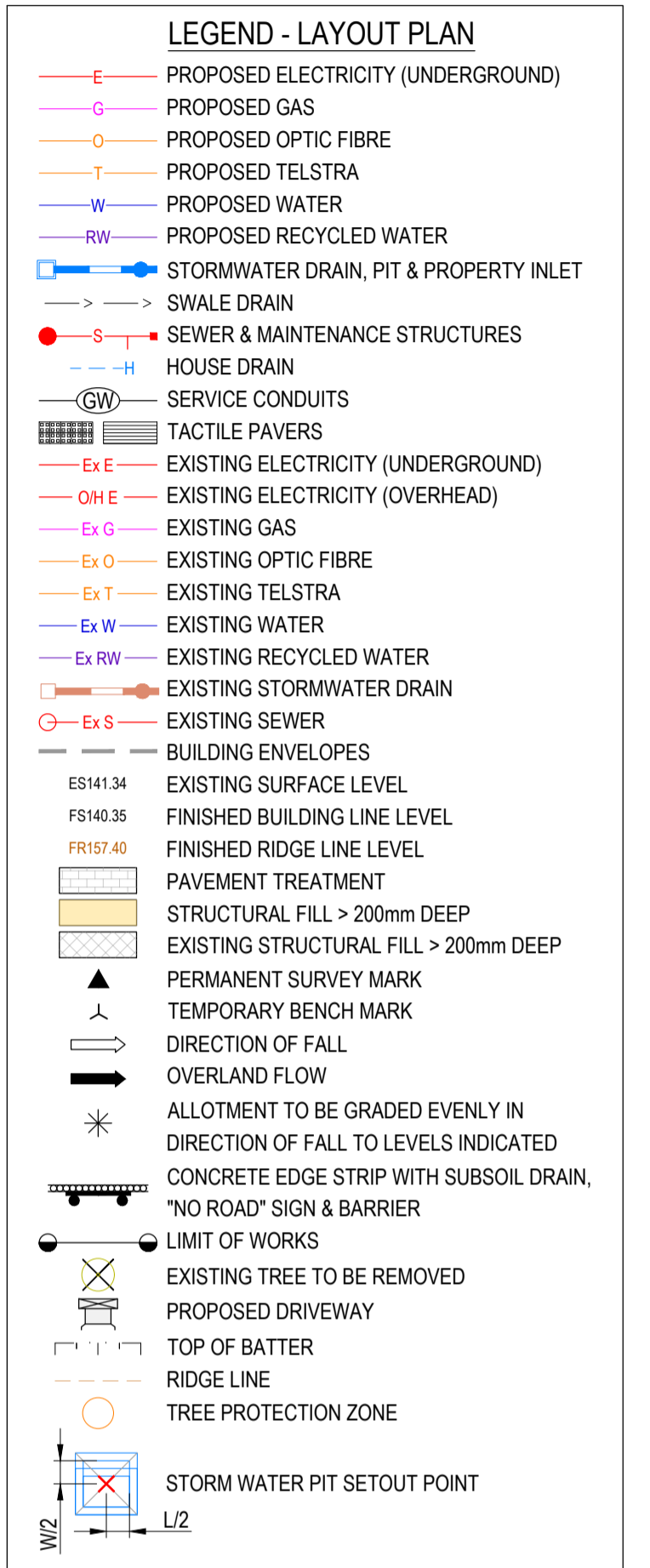
DRAWING TITLE
**ARMSTRONG - STAGE 47B
COVER SHEET**

STATUS
**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
1:2000 @ A1	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R100	1



CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



NOTE: STREET TREE LOCATIONS SHOWN ARE INDICATIVE ONLY. ULTIMATE LOCATION IS TO BE PROVIDED/CONFIRMED BY LANDSCAPE ARCHITECTS

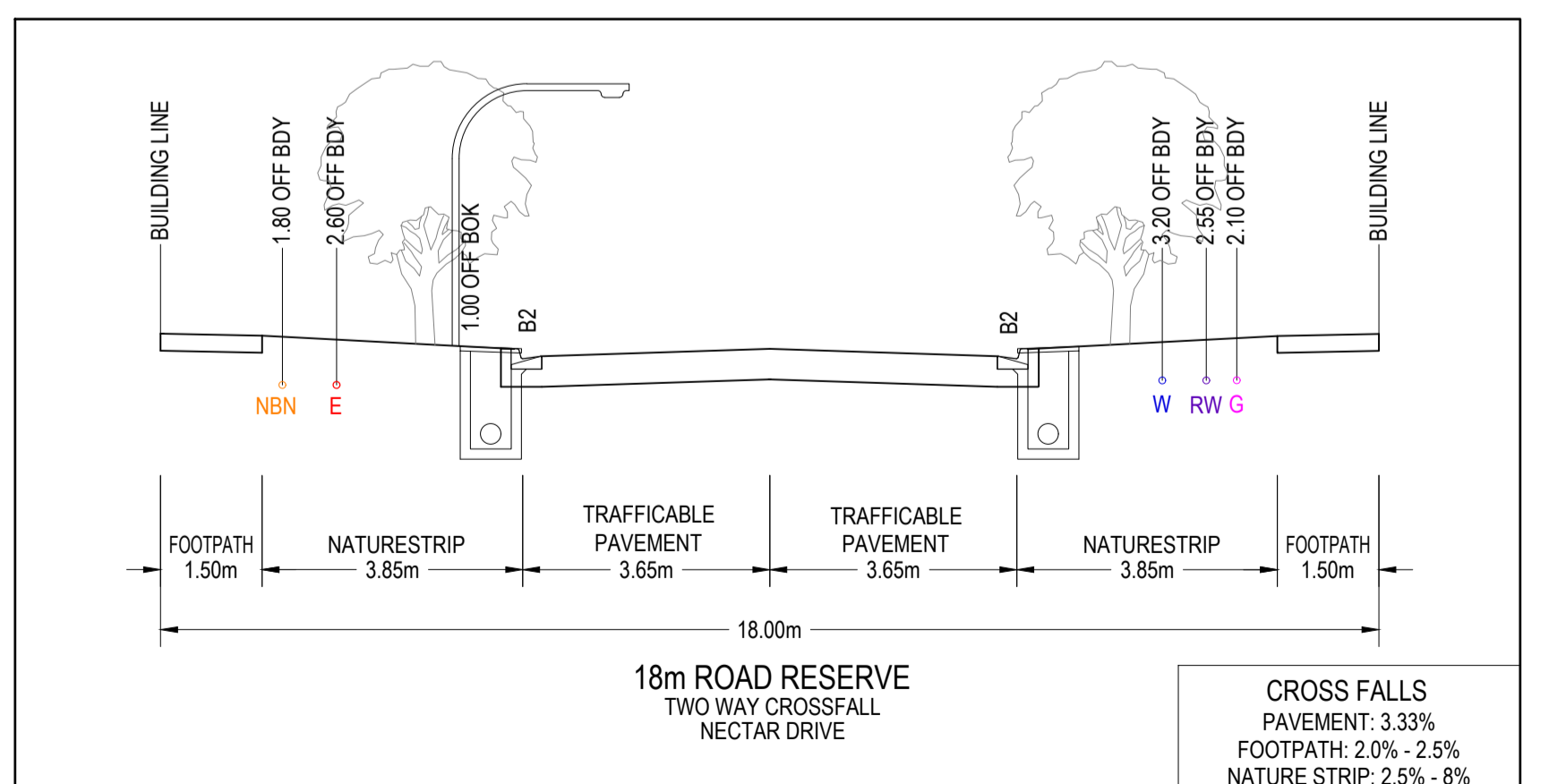
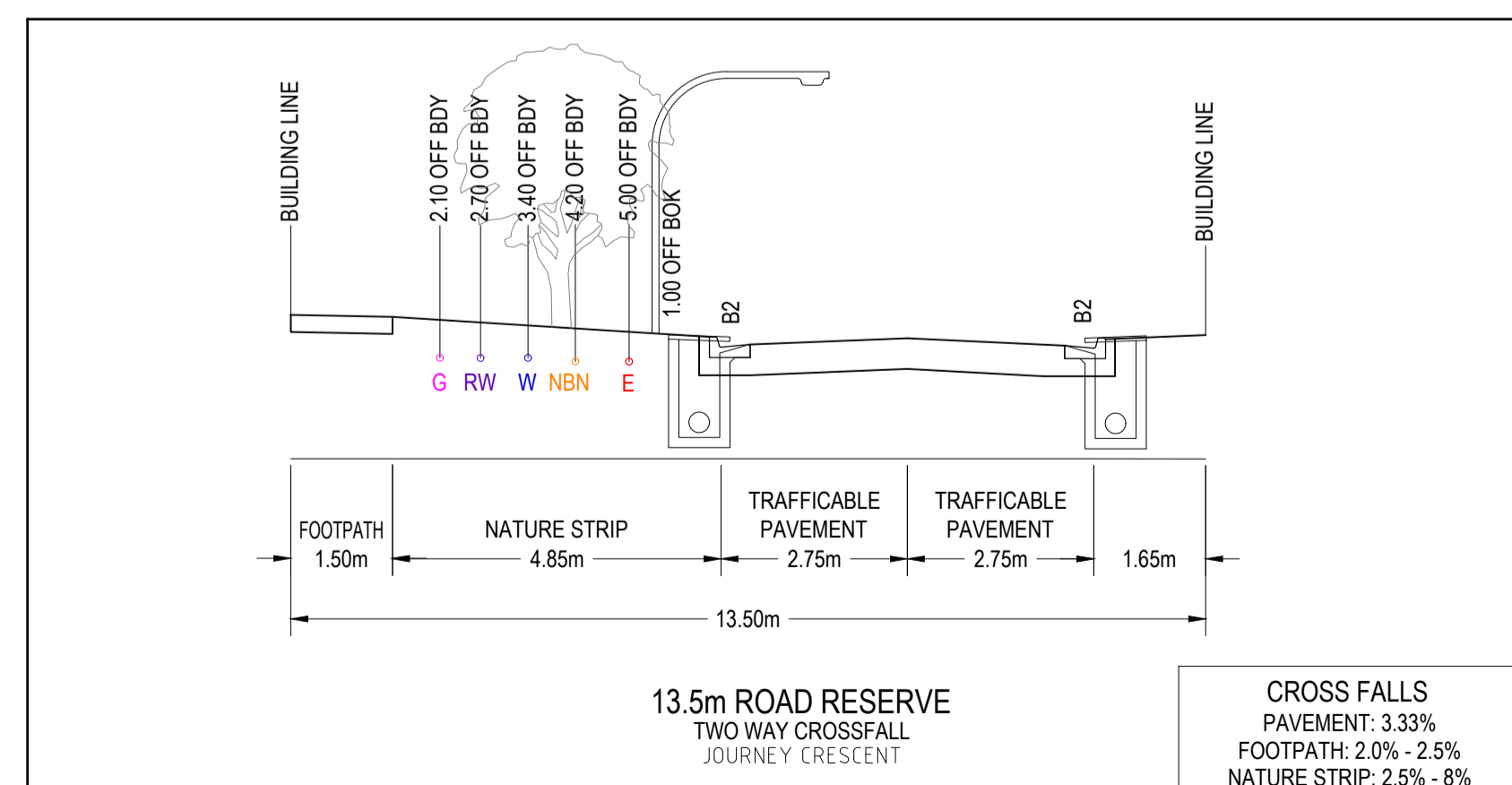
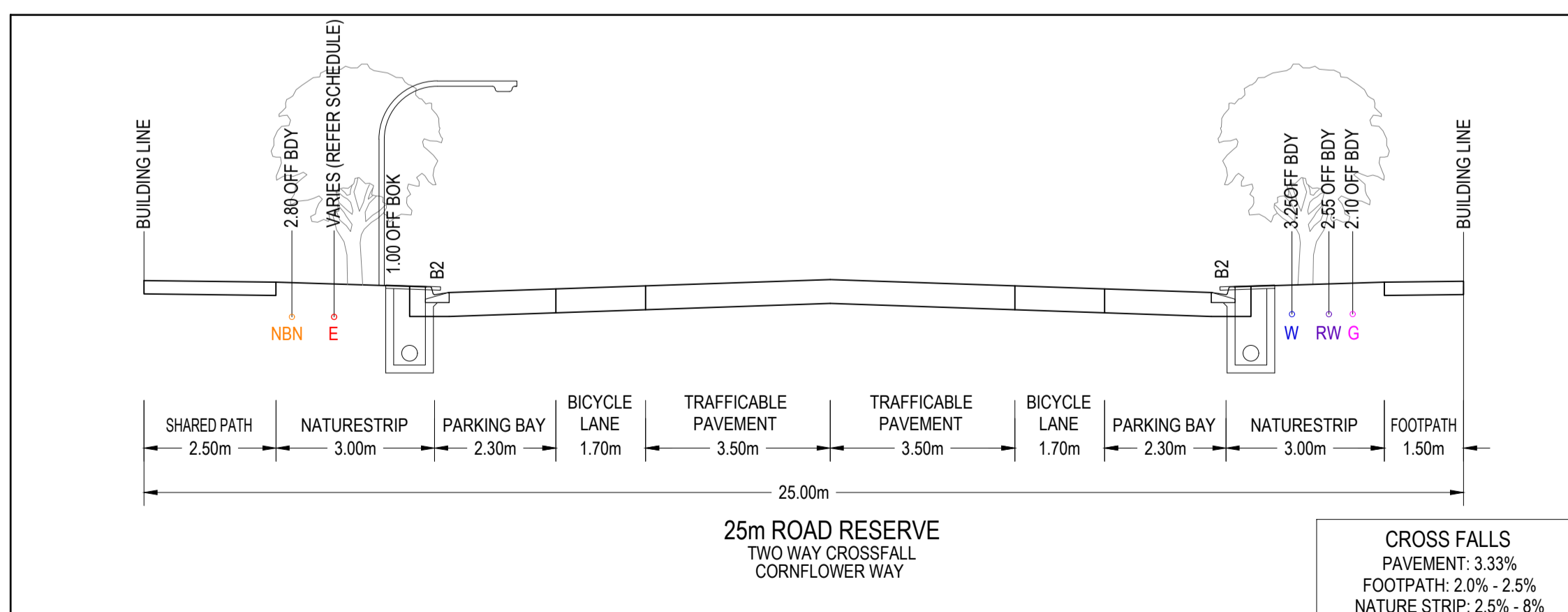
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DIAL 1100 BEFORE YOU DIG
www.1100.com.au

- NOTES:
- ALL VEHICLE AND PRAM CROSSING LAYBACKS, TO BE MINIMUM OF 1.0m FROM PITS.
 - ALL PRAM CROSSINGS TO BE A MINIMUM 2.0m FROM VEHICLE CROSSINGS.
 - ALL PRAM CROSSINGS TO BE DDA COMPLIANT.
 - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF LANDSCAPE WORKS.
 - THE USE OF DIRECTIONAL AND HAZARD TACTILE PAVERS MUST ACCORD WITH SECTION 2.2.3.1 OF AS/NZS 1428.4:2002
 - SEWER MAINTENANCE HOLE CONVERTER SLAB OR CONE, TO BE ROTATED TO ENSURE COVER POSITION IS CENTRALLY LOCATED WITHIN FOOTPATH
 - CHANGES FOR SETOUT OF PROPERTY INLET POINTS, SERVICING FUTURE LOTS, ARE MEASURED FROM THE DOWNSTREAM PIT
 - CONTRACTOR TO LOCATE ALL EXISTING ASSETS PRIOR TO COMMENCEMENT OF WORKS. ANY DAMAGE TO EXISTING ASSETS TO BE RECTIFIED AT CONTRACTORS EXPENSE.
 - CONTRACTOR TO VERIFY DEPTH OF EXISTING SERVICES, PRIOR TO COMMENCEMENT OF CONSTRUCTION
 - LOTS WITH FRONTAGES OF 12.50m OR LESS ARE TO BE PROVIDED WITH CROSSOVERS OF MAXIMUM 3.50m WIDTH

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLED WATER		POTABLE WATER		OPTIC FIBRE		ELECTRICITY		PUBLIC LIGHTING	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
CORNFLOWER WAY (SOUTH OF LOT 4745)	E	2.10	E	2.55	E	3.25	W	2.80	W	3.60	W	1.00*
CORNFLOWER WAY (NORTH OF LOT 4745)	E	2.10	E	2.55	E	3.25	W	2.80	W	3.40	W	1.00*
NECTAR DRIVE	N	2.10	N	2.55	N	3.20	S	1.80	S	2.60	S	1.00*
JOURNEY CRESCENT (NORTH/SOUTH)	E	2.10	E	2.70	E	3.40	E	4.20	E	5.00	E	1.00*
FUTURE JOURNEY CRESCENT (EAST/WEST)	S	2.10	S	2.70	S	3.40	S	4.20	S	5.00	S	1.00*
FUTURE PREVAIL PLACE	S	2.10	S	2.50	S	3.20	S	4.00	S	4.80	S	1.00*

1. * DENOTES OFFSET FROM BACK OF KERB.



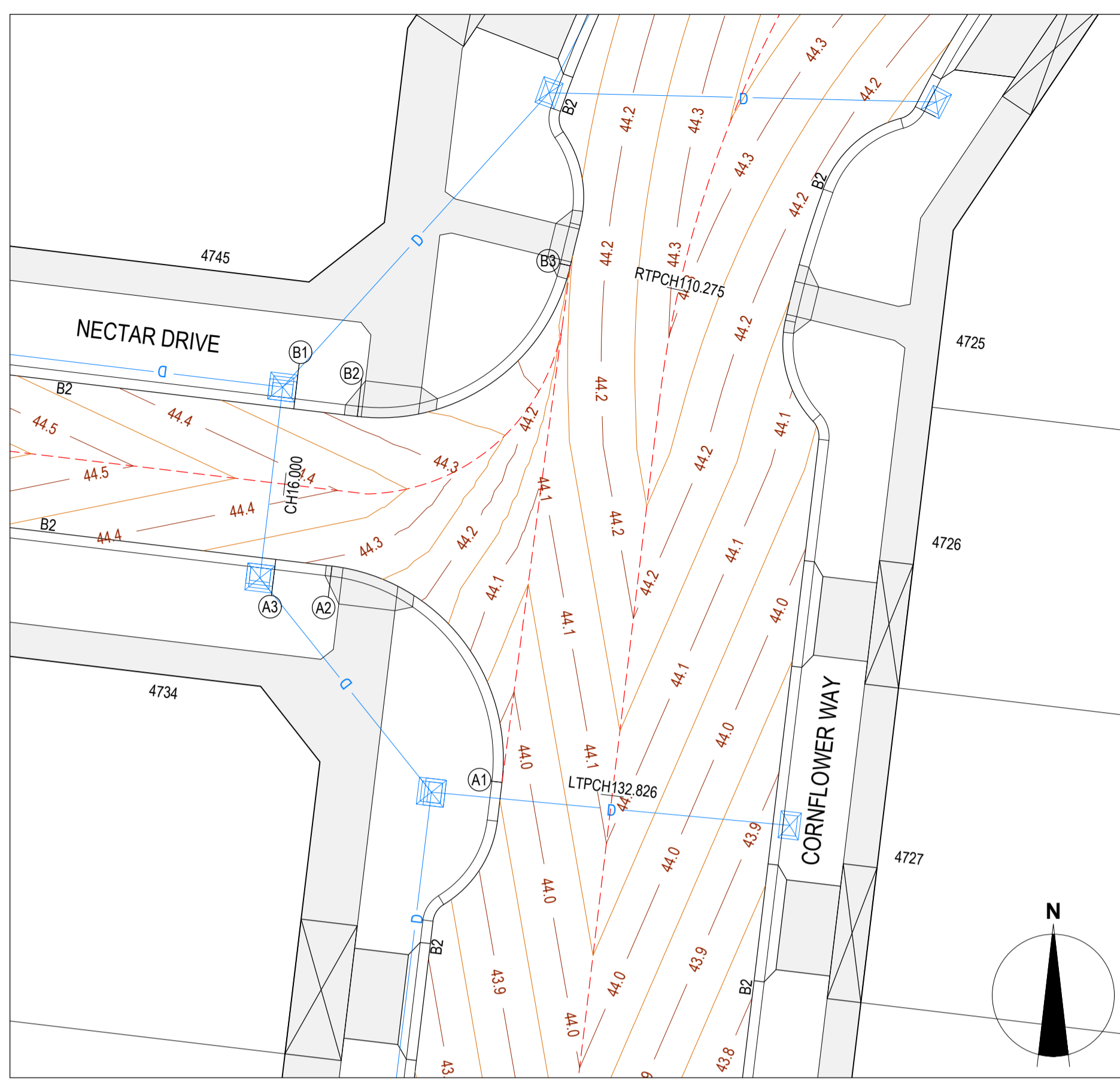
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
B	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
C	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



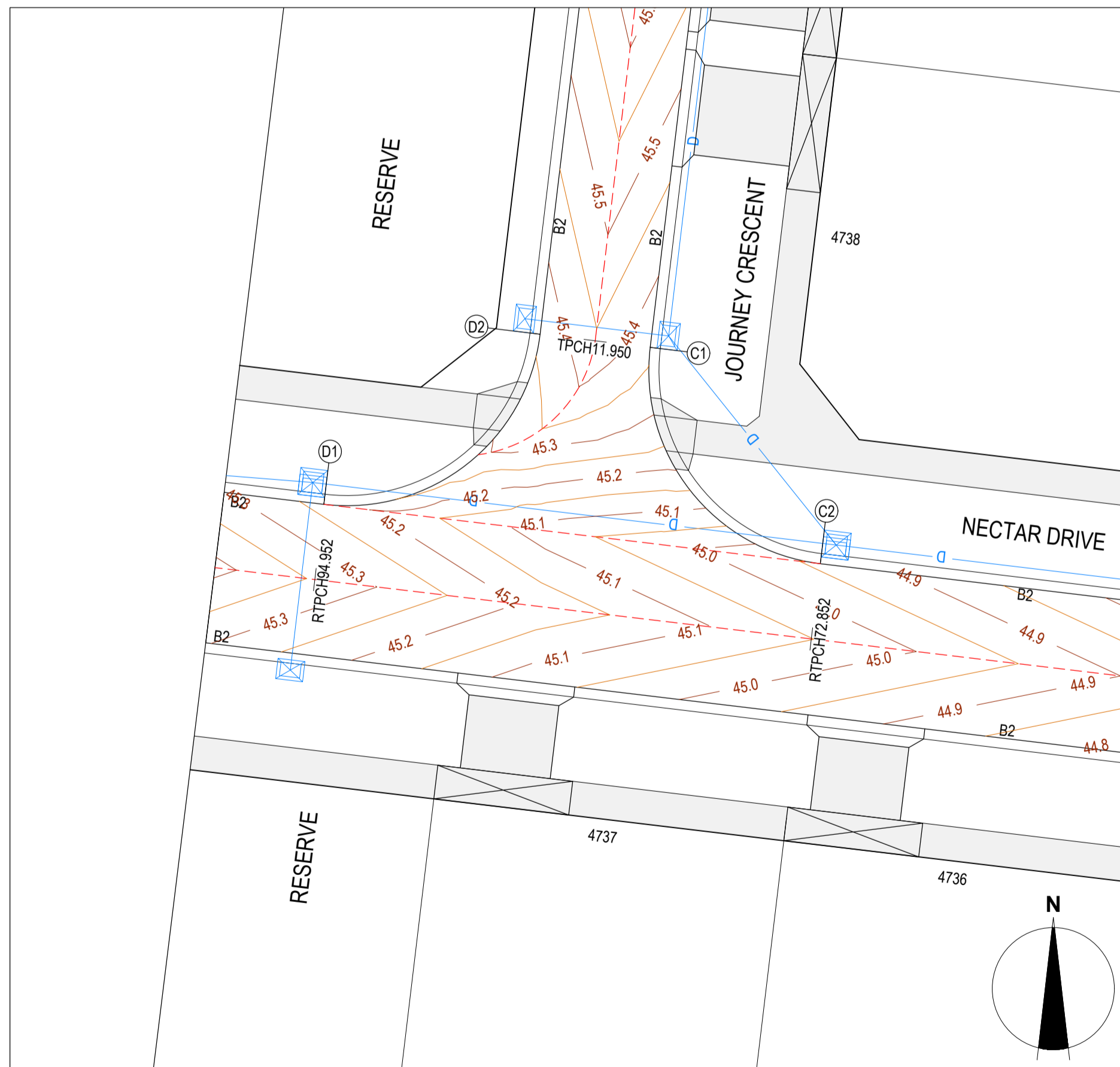
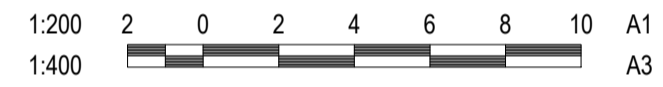
PROJECT TITLE
**ARMSTRONG - STAGE 47B
LAYOUT PLAN**

STATUS
**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R200	1



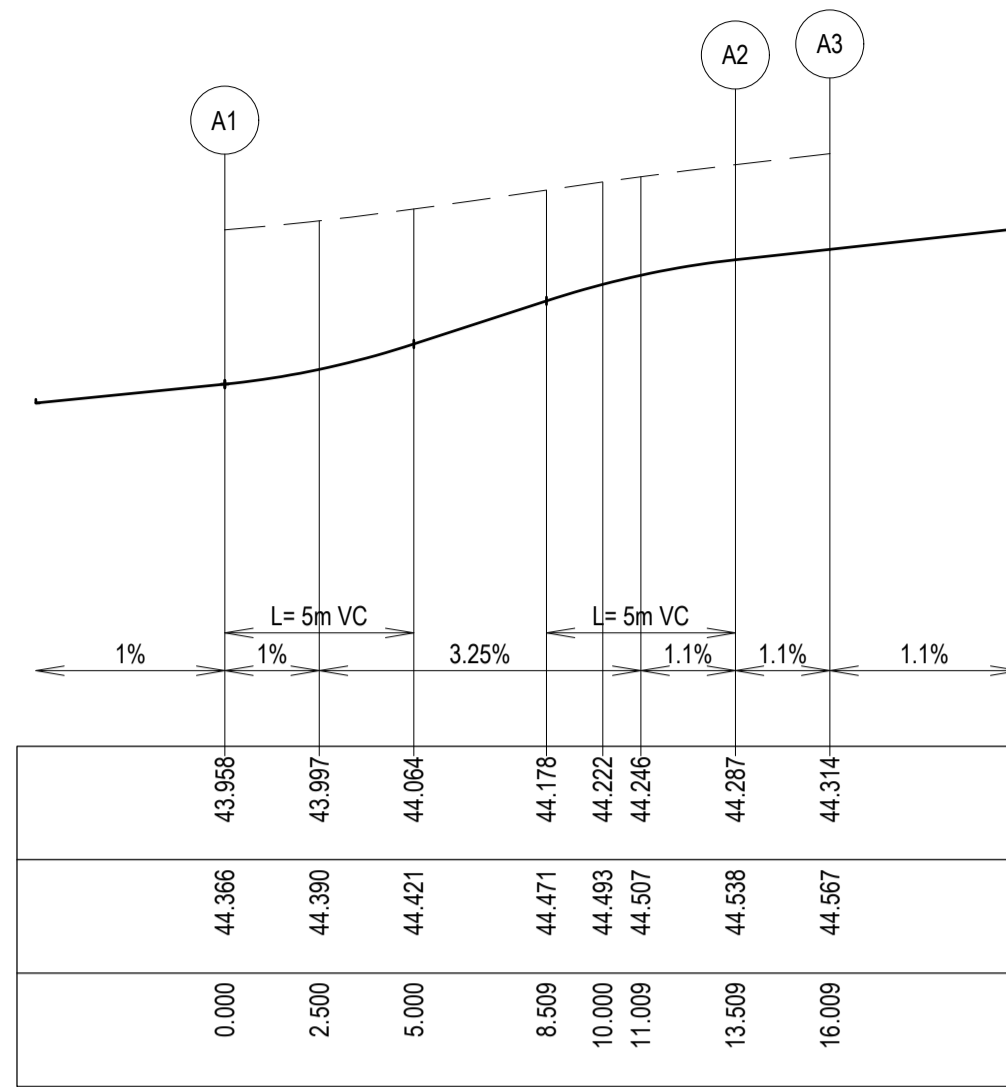
INTERSECTION OF CORNFLOWER WAY & NECTAR DRIVE



INTERSECTION OF NECTAR DRIVE & JOURNEY CRESCENT



VERTICAL GEOMETRY
DATUM RL43
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



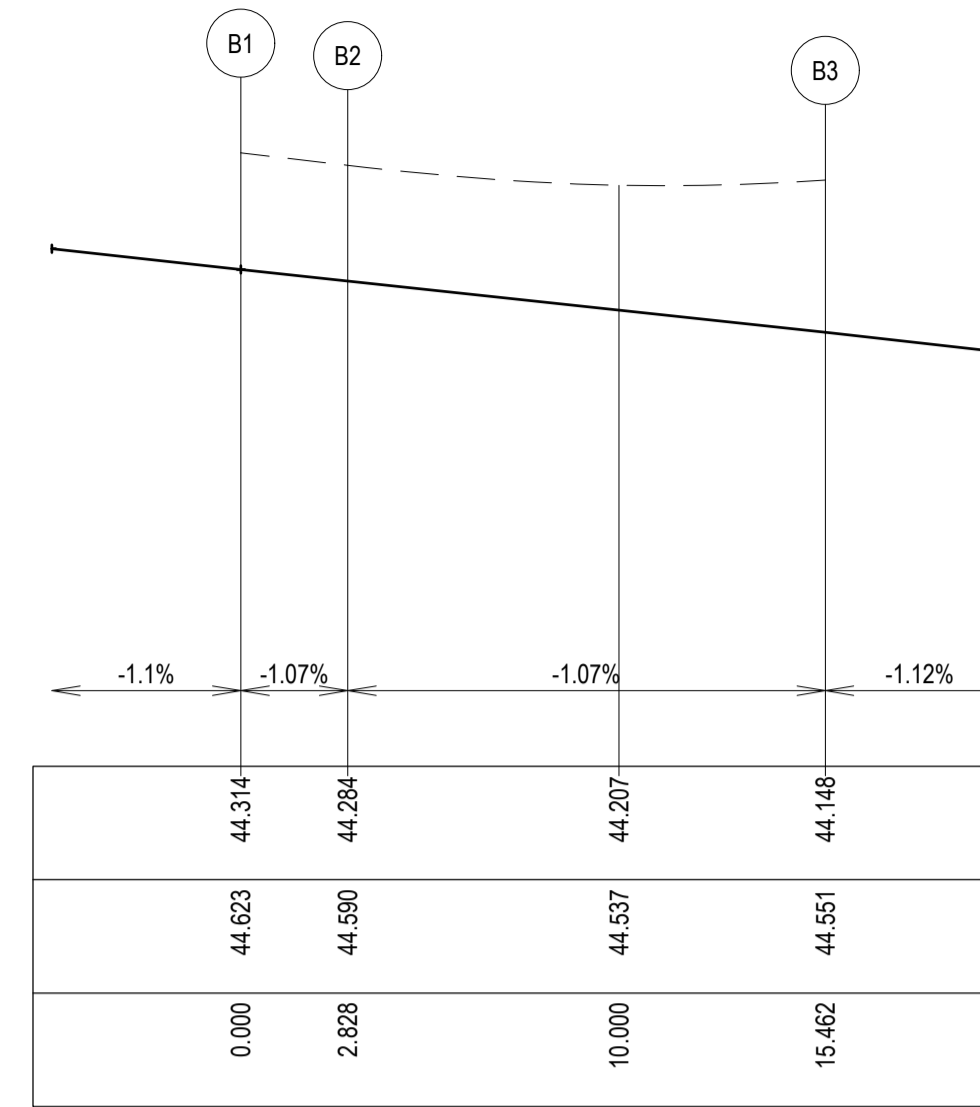
LIP LINE A

ALIGNMENT A

PT NO	EASTING	NORTHING	RL
A1	265017.407	5766601.909	43.958
A2	265009.889	5766611.469	44.287
A3	265007.407	5766611.766	44.314

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
A1 - A2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	44.121

VERTICAL GEOMETRY
DATUM RL43
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



LIP LINE B

ALIGNMENT B

PT NO	EASTING	NORTHING	RL
B1	265008.203	5766618.419	44.314
B2	265011.011	5766618.083	44.284
B3	265020.423	5766624.739	44.148

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
B2 - B3	84.173	8.6	12.634	2.218	1.644	3.088	2.676	3.159	44.216

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

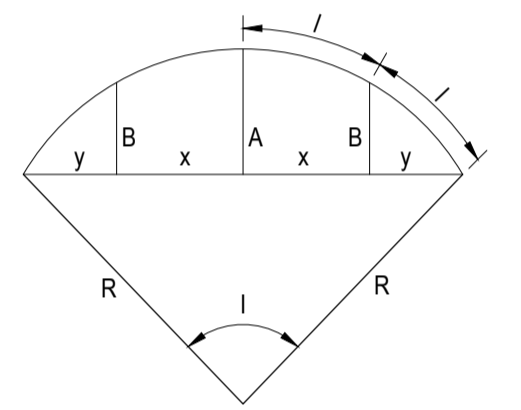
LEGEND - INTERSECTION PLAN

- Stormwater drain, pit & property inlet
- Major contour - 0.1m
- Minor contour - 0.05m
- Crown / grade line

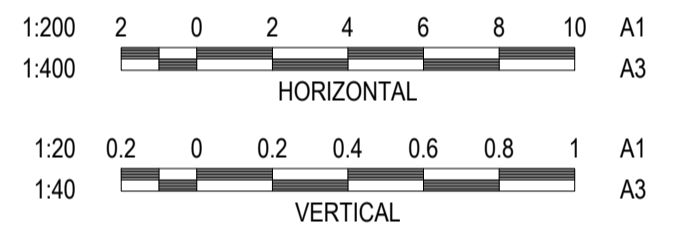
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LEGEND

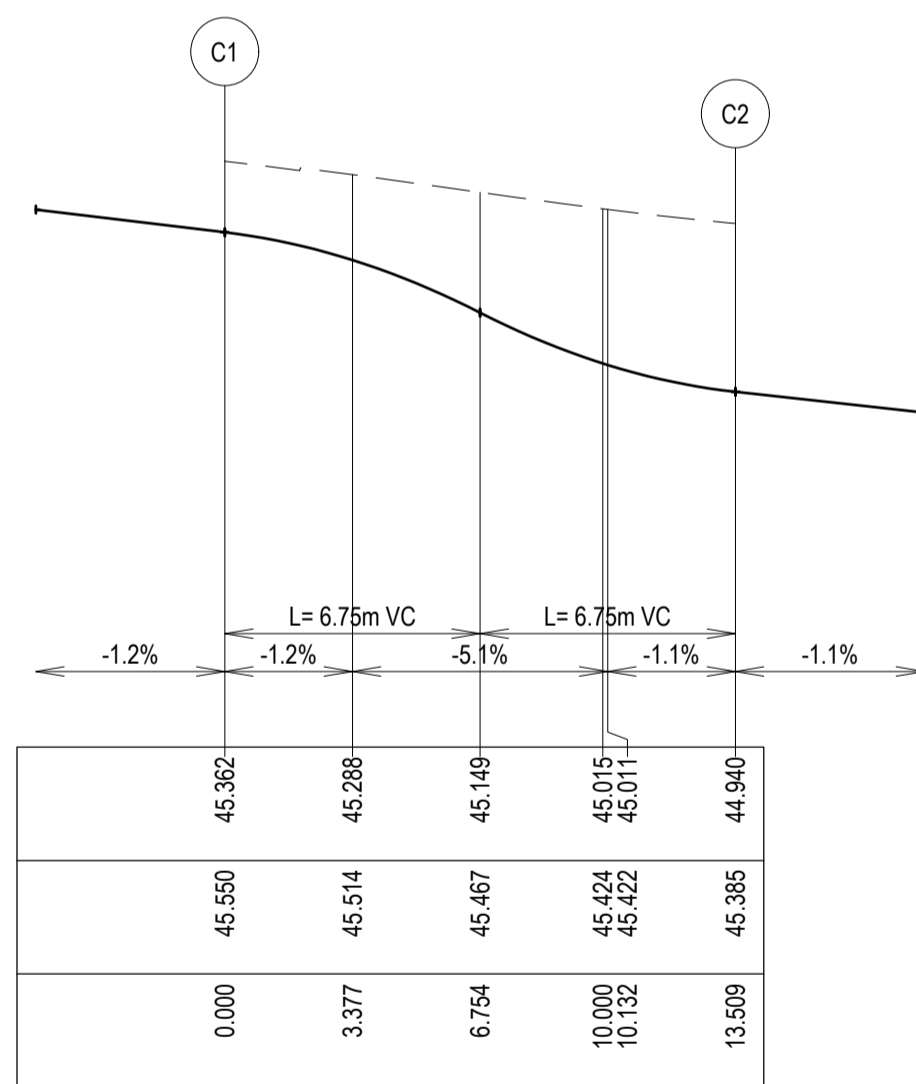
- Existing surface
- Design line



LIP PROFILE SETOUT



VERTICAL GEOMETRY
DATUM RL44
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



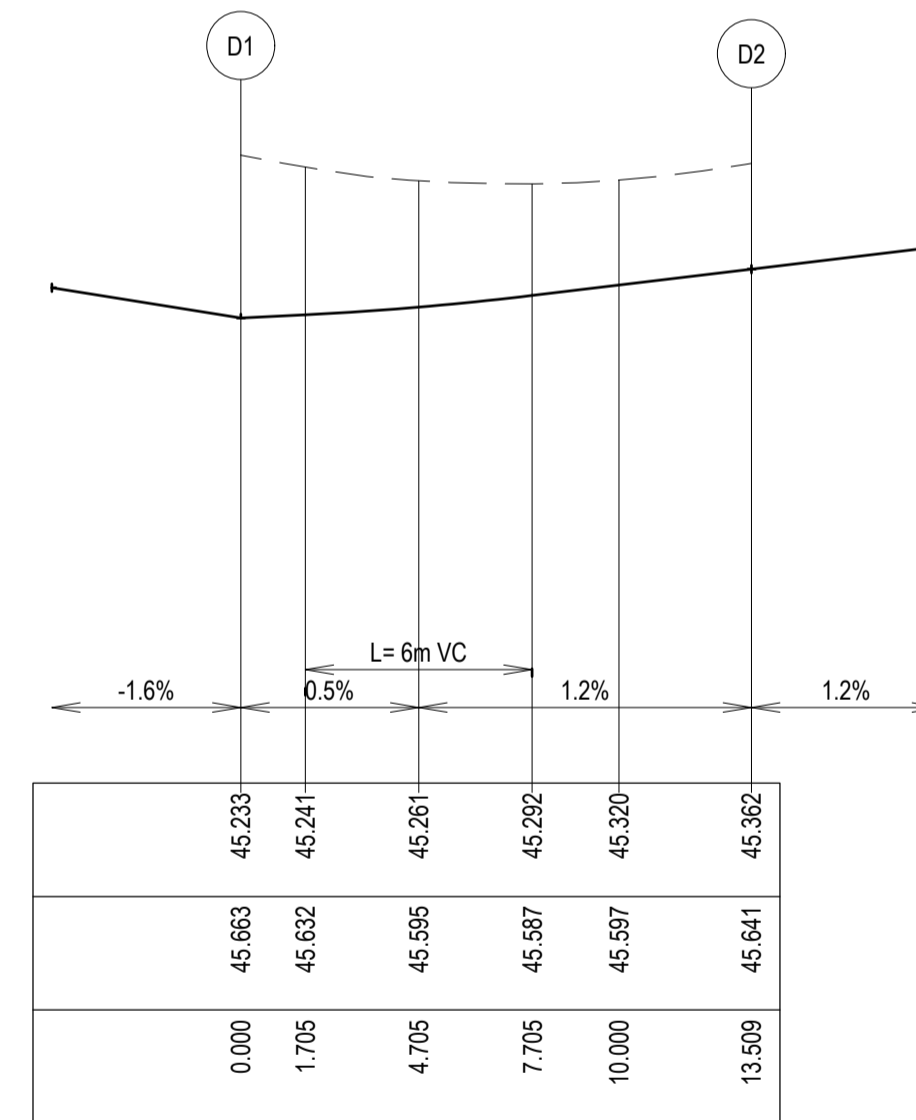
LIP LINE C

ALIGNMENT C

PT NO	EASTING	NORTHING	RL
C1	264944.235	5766634.73	45.362
C2	264951.753	5766625.169	44.94

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
C1 - C2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	45.149

VERTICAL GEOMETRY
DATUM RL44
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



LIP LINE D

ALIGNMENT D

PT NO	EASTING	NORTHING	RL
D1	264929.809	5766627.794	45.233
D2	264939.37	5766635.312	45.362

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
D1 - D2	90	8.6	13.509	2.519	1.864	3.291	2.79	3.377	45.281

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
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B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

PROJECT

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

DRAWING TITLE

MT DUNEED

DRAWING TITLE

**ARMSTRONG - STAGE 47B
INTERSECTION DETAILS - 1**

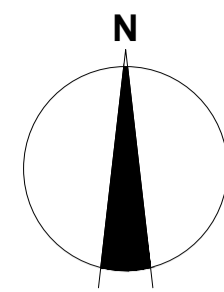
STATUS

**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R300	1



JOURNEY CRESCENT BEND



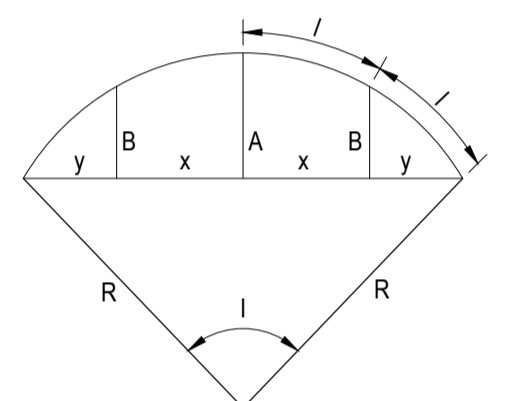
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

- LEGEND - INTERSECTION PLAN
- STORMWATER DRAIN, PIT & PROPERTY INLET
 - MAJOR CONTOUR - 0.1m
 - MINOR CONTOUR - 0.05m
 - CROWN / GRADE LINE

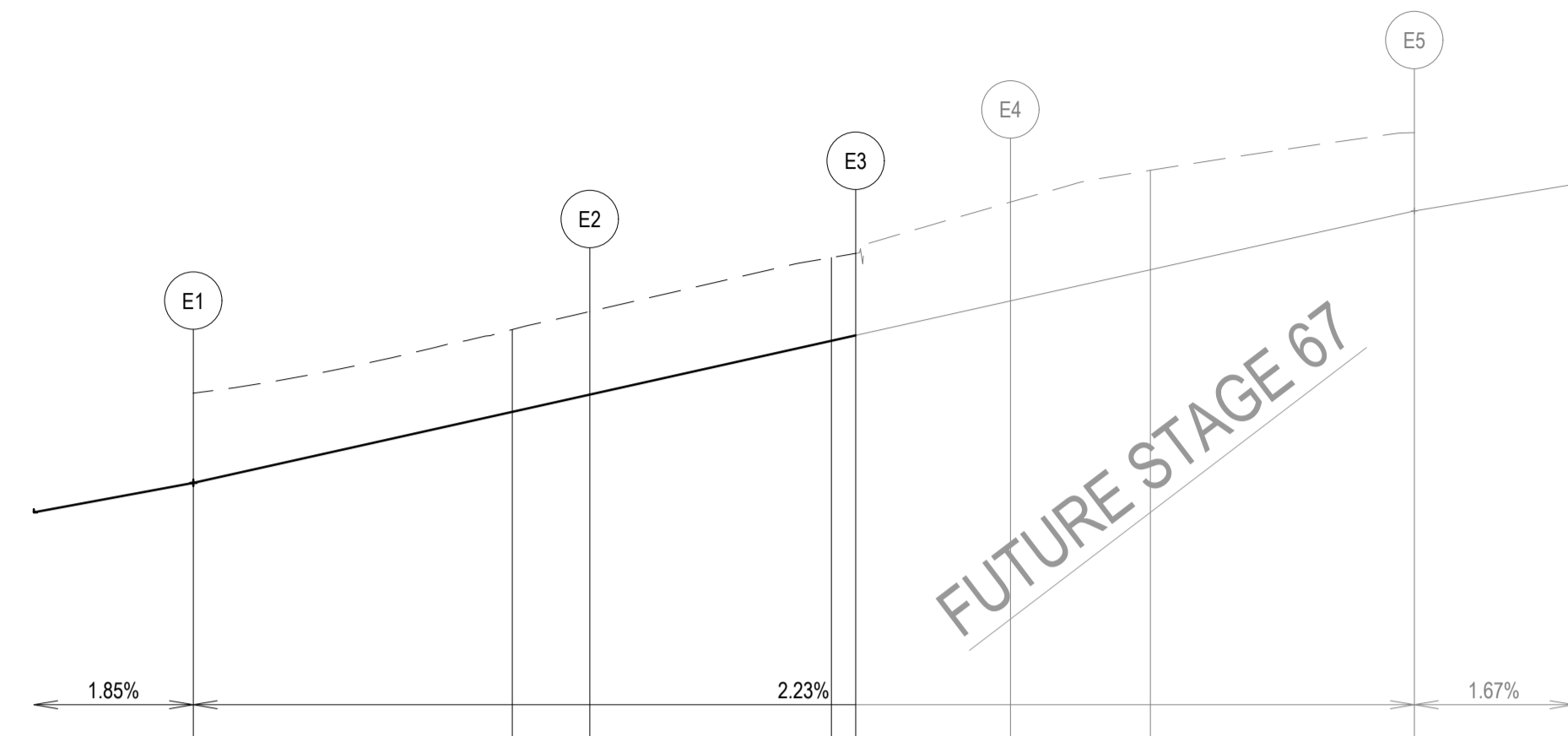
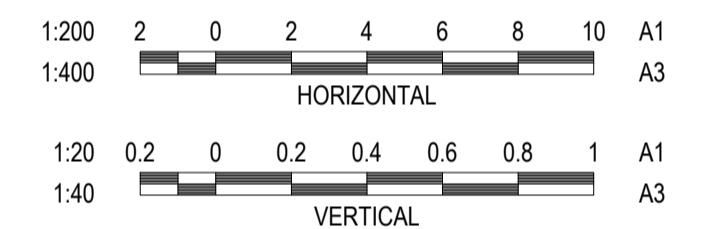
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LEGEND

- EXISTING SURFACE
- DESIGN LINE



LIP PROFILE SETOUT



VERTICAL GEOMETRY
 DATUM RL45
 DESIGN LEVEL
 EXISTING SURFACE
 CHAINAGE

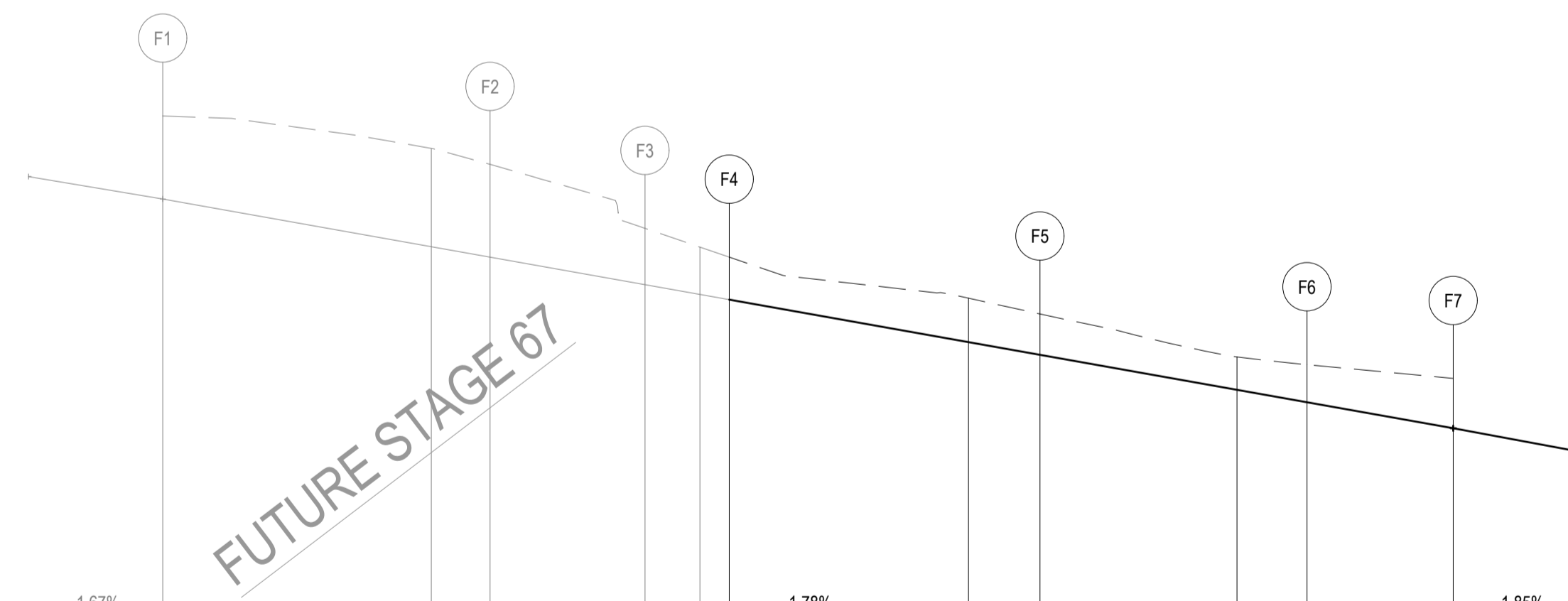
PT NO	EASTING	NORTHING	RL
E1	264944.254	5766676.155	46.895
E2	264939.854	5766687.235	46.172
E3	264933.454	5766692.578	46.358
E4	264929.296	5766695.036	46.466
E5	264917.049	5766698.107	46.748

LIP LINE E

ALIGNMENT E

PT NO	EASTING	NORTHING	RL
E1	264944.254	5766676.155	46.895
E2	264939.854	5766687.235	46.172
E3	264933.454	5766692.578	46.358
E4	264929.296	5766695.036	46.466
E5	264917.049	5766698.107	46.748

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
E1 - E2	56.962	12.5	12.427	1.513	1.129	3.075	2.886	3.107	46.034
E3 - E4	18.531	15	4.851	0.196	0.147	1.212	1.204	1.213	46.412
E4 - E5	14.507	50	12.66	0.4	0.3	3.163	3.15	3.165	46.607



VERTICAL GEOMETRY
 DATUM RL45
 DESIGN LEVEL
 EXISTING SURFACE
 CHAINAGE

PT NO	EASTING	NORTHING	RL
F1	264917.631	5766702.972	46.748
F2	264929.733	5766701.524	46.531
F3	264934.955	5766699.272	46.429
F4	264937.363	5766697.261	46.373
F5	264946.246	5766689.845	46.167
F6	264949.766	5766680.981	45.991
F7	264949.12	5766675.573	45.894

LIP LINE F

ALIGNMENT F

PT NO	EASTING	NORTHING	RL
F1	264917.631	5766702.972	46.748
F2	264929.733	5766701.524	46.531
F3	264934.955	5766699.272	46.429
F4	264937.363	5766697.261	46.373
F5	264946.246	5766689.845	46.167
F6	264949.766	5766680.981	45.991
F7	264949.12	5766675.573	45.894

CURVE NO	I	RAD.	ARC	A	B	X	Y	I	MID POINT RL
F2 - F3	33.038	10	5.766	0.413	0.309	1.437	1.407	1.442	46.48
F5 - F6	56.962	10	9.942	1.21	0.903	2.46	2.309	2.485	46.079

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

PROJECT

Level 7, 176 Wellington Parade
 East Melbourne, VIC, Australia 3002

DRAWING TITLE

MT DUNEED

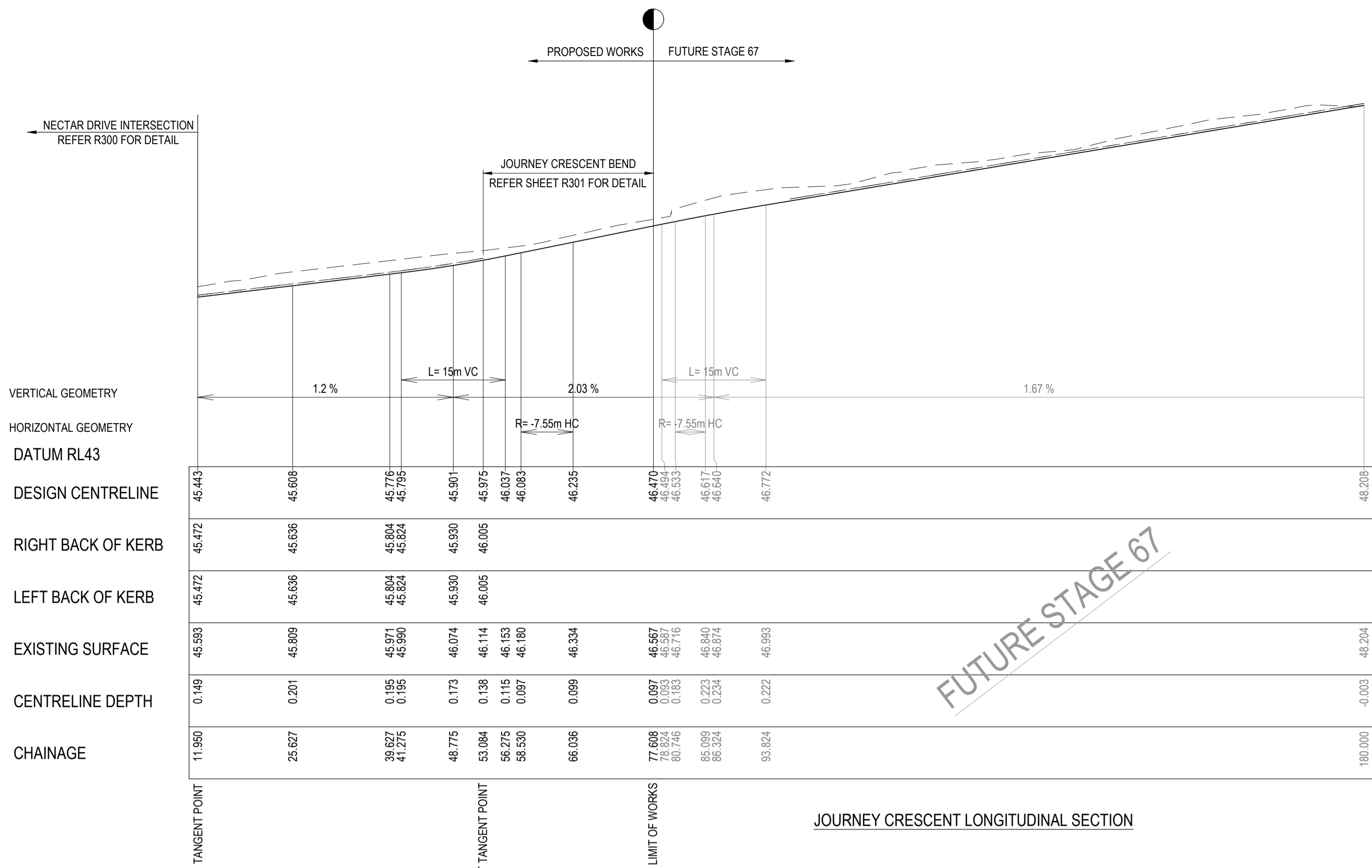
PROJECT

**ARMSTRONG - STAGE 47B
 INTERSECTION DETAILS - 2**

DRAWING TITLE

**ISSUED FOR
 CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R301	1



JOURNEY CRESCENT DESIGN LINE

CHAINAGE	EASTING	NORTHING	BEARING
0.000	264940.383	5766623.155	6°49'11" IP
58.530	264947.334	5766681.272	6°49'11" TC
59.341	264947.387	5766682.080	0°40'18"
60.440	264947.320	5766683.176	352°19'56"
61.538	264947.094	5766684.250	343°59'34"
62.637	264946.716	5766685.281	335°39'12"
63.736	264946.191	5766686.245	327°18'50"
64.835	264945.533	5766687.124	318°58'29"
65.934	264944.754	5766687.898	310°38'07"
66.036	264944.676	5766687.964	309°51'30" CT
66.036	264944.676	5766687.964	309°51'30" IP
77.608	264935.793	5766695.380	309°51'30" IP

IP 3

coordinate	=	264947.8200	5766685.3387
centre	=	264939.8370	5766682.1682
radius	=	-7.5500	
length	=	7.5060	
intersect angle	=	56°57'41"	

start tangent

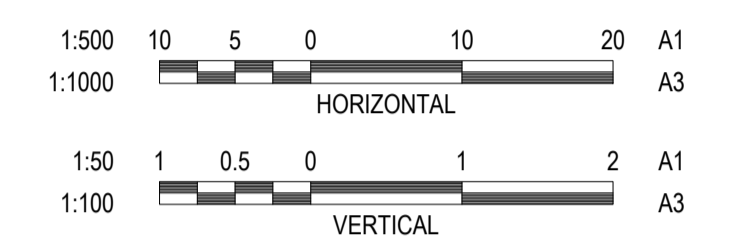
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length	=	4.0960	
chainage	=	58.5305	
bearing	=	6°49'11"	

end tangent

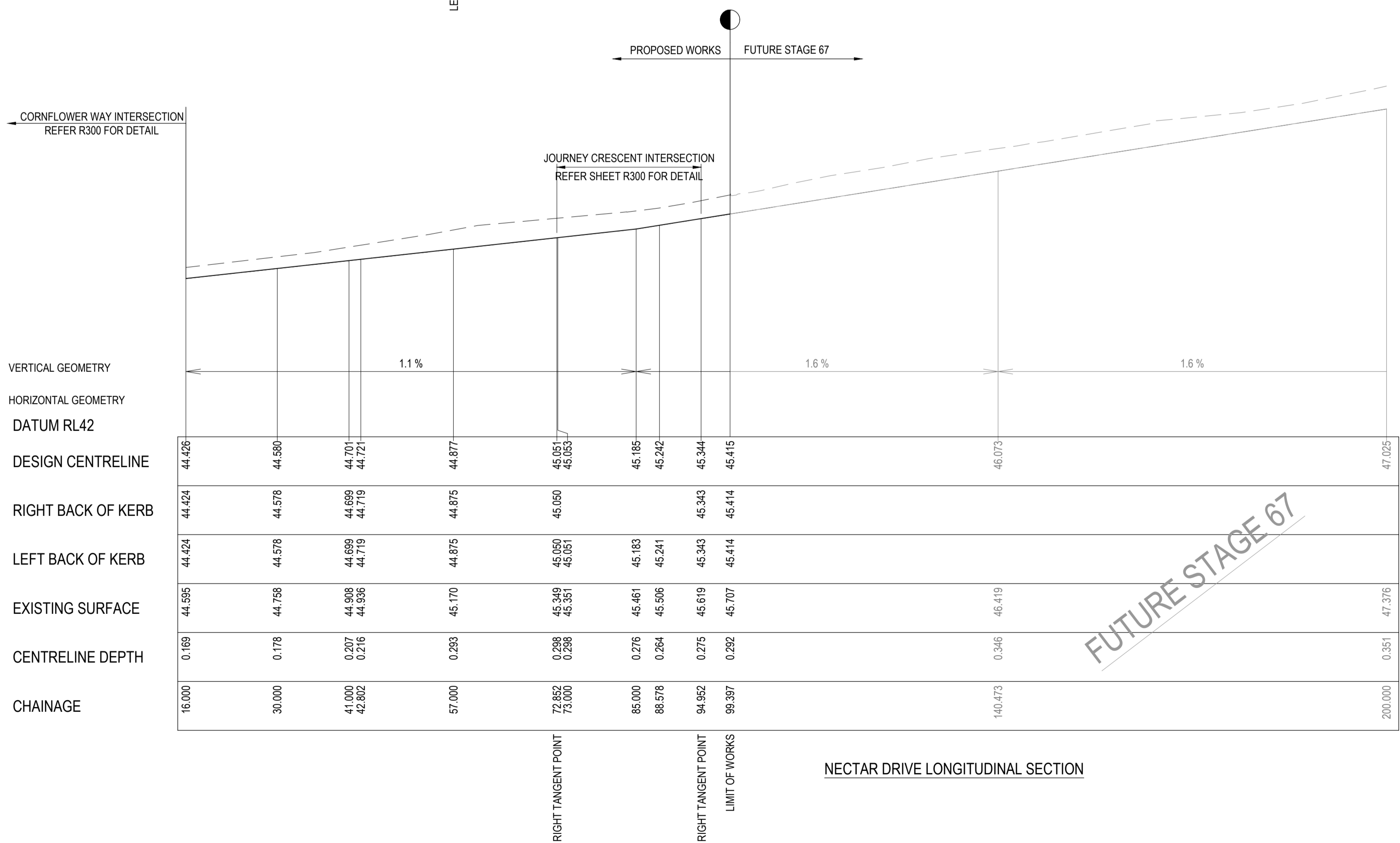
coordinate	=	264944.6758	5766687.9638
length	=	4.0960	
chainage	=	66.0364	
bearing	=	309°51'30"	

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE
- LEFT BACK OF KERB
- RIGHT BACK OF KERB



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NECTAR DRIVE DESIGN LINE

CHAINAGE	EASTING	NORTHING	BEARING
0.000	265023.692	5766613.192	276°49'11" IP
99.407	264924.988	5766624.997	276°49'11" IP

NECTAR DRIVE DESIGN LINE

-- IP Details --

IP 1

coordinate	=	265023.6917	5766613.1923
chainage	=	0.0000	

IP 2

coordinate	=	264924.9888	5766624.9952
chainage	=	99.3970	

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.T. TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
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A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

villawood properties
 Communities Designed for Living

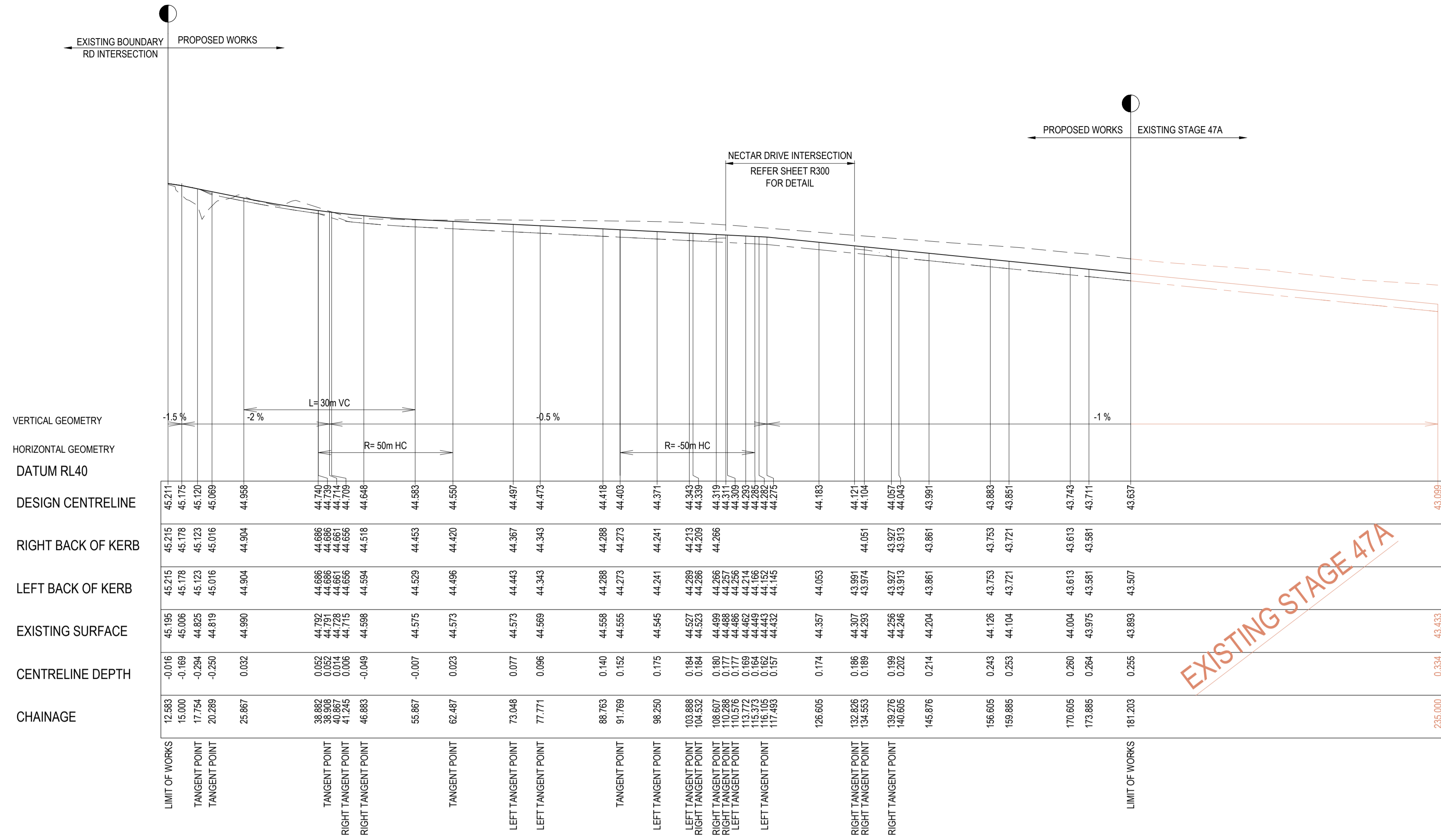
creo CONSULTANTS
 Level 7, 176 Wellington Parade
 East Melbourne, VIC, Australia 3002

ARMSTRONG
 MT DUNEED

ARMSTRONG - STAGE 47B
ROAD LONGITUDINAL SECTIONS - 1

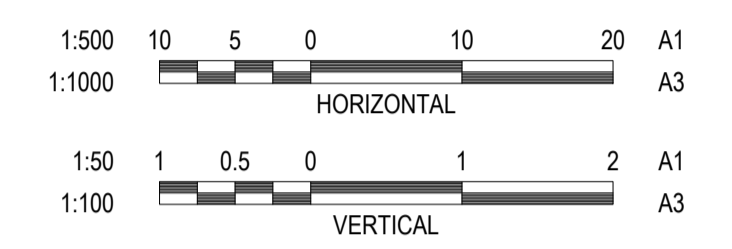
ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.T. TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R400	1



LEGEND

- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE
- LEFT BACK OF KERB
- RIGHT BACK OF KERB



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CORNFLOWER WAY LONGITUDINAL SECTION

VERTICAL GEOMETRY	HORIZONTAL GEOMETRY	DATUM RL40	DESIGN CENTRELINE	RIGHT BACK OF KERB	LEFT BACK OF KERB	EXISTING SURFACE	CENTRELINE DEPTH	CHAINAGE
-1.5%		45.211	45.175	45.215	45.178	45.195	-0.016	12.583
-2%		45.120	45.123	45.215	45.178	45.006	-0.169	15.000
	L=30m VC	45.069	45.016	45.016	45.016	44.819	-0.294	17.754
		44.968	44.904	44.904	44.904	44.990	0.032	20.289
		44.740	44.686	44.686	44.686	44.792	0.052	25.867
		44.739	44.686	44.686	44.686	44.791	0.052	38.882
		44.709	44.658	44.658	44.658	44.728	0.074	38.898
		44.648	44.518	44.518	44.518	44.715	0.067	41.297
		44.583	44.453	44.453	44.453	44.598	-0.049	46.883
		44.450	44.420	44.420	44.420	44.573	0.023	55.867
		44.497	44.367	44.367	44.367	44.573	0.077	62.487
		44.473	44.343	44.343	44.343	44.569	0.096	73.048
		44.418	44.288	44.288	44.288	44.559	0.140	77.771
		44.403	44.273	44.273	44.273	44.555	0.152	88.763
		44.371	44.241	44.241	44.241	44.545	0.175	91.769
		44.343	44.213	44.213	44.213	44.527	0.184	98.250
		44.339	44.209	44.209	44.209	44.523	0.184	103.888
		44.319	44.266	44.266	44.266	44.499	0.180	104.532
		44.311	44.257	44.257	44.257	44.488	0.177	108.607
		44.283	44.214	44.214	44.214	44.462	0.169	110.298
		44.285	44.168	44.168	44.168	44.449	0.164	113.272
		44.275	44.152	44.152	44.152	44.443	0.162	115.373
		44.262	44.143	44.143	44.143	44.432	0.157	116.005
		44.183	44.053	44.053	44.053	44.357	0.174	117.493
		44.121	44.051	44.051	44.051	44.307	0.186	126.605
		44.104	43.971	43.971	43.971	44.293	0.169	132.626
		44.057	43.973	43.973	43.973	44.266	0.199	132.626
		44.056	43.973	43.973	43.973	44.266	0.202	134.553
		43.991	43.861	43.861	43.861	44.204	0.214	138.876
		43.883	43.753	43.753	43.753	44.126	0.243	145.876
		43.851	43.721	43.721	43.721	44.104	0.253	156.605
		43.743	43.613	43.613	43.613	44.004	0.260	159.885
		43.711	43.581	43.581	43.581	43.975	0.264	170.605
		43.637	43.507	43.507	43.507	43.883	0.255	173.885
		43.099	43.433	43.433	43.433	43.833	0.334	181.203
								235.000

CORNFLOWER WAY DESIGN LINE

CHAINAGE	EASTING	NORTHING	BEARING
12.583	265060.047	5766712.938	186°49'11" IP
38.883	265056.924	5766686.824	186°49'11" TC
39.548	265056.841	5766686.164	187°34'55"
42.373	265056.389	5766683.376	190°49'08"
45.198	265055.781	5766680.618	194°03'22"
48.023	265055.018	5766677.898	197°17'35"
50.847	265054.102	5766675.226	200°31'48"
53.672	265053.037	5766672.610	203°46'02"
56.497	265051.826	5766670.058	207°00'15"
59.322	265050.473	5766667.579	210°14'29"
62.147	265048.982	5766665.180	213°28'42"
62.487	265048.794	5766664.897	213°52'07" CT
62.487	265048.794	5766664.897	213°52'07" IP
91.769	265032.476	5766640.584	213°52'07" IP
91.769	265032.476	5766640.584	213°52'07" TC
93.220	265031.684	5766639.367	212°12'18"
96.045	265030.247	5766636.936	208°58'05"
98.870	265028.949	5766634.427	205°43'51"
101.695	265027.795	5766631.849	202°29'38"
104.520	265026.789	5766629.210	199°15'24"
107.345	265025.933	5766626.518	196°01'11"
110.169	265025.231	5766623.782	192°46'58"
112.994	265024.684	5766621.011	189°32'44"
115.373	265024.345	5766618.657	186°49'11" IP
153.714	265019.792	5766580.588	186°49'11" IP
181.203	265016.528	5766553.292	186°49'11" IP

CORNFLOWER WAY DESIGN LINE

IP 5
 coordinate = 265032.4756 5766640.5841
 chainage = 91.7685
 intersect angle = 0°00'00"

IP 6
 coordinate = 265025.7733 5766630.5983
 centre = 265073.9915 5766612.7196
 radius = -50.0000
 length = 23.6046
 intersect angle = 27°02'56"

start tangent
 coordinate = 265032.4756 5766640.5841
 length = 12.0265
 chainage = 91.7685
 bearing = 213°52'07"

end tangent
 coordinate = 265024.3452 5766618.6569
 length = 12.0265
 chainage = 115.3731
 bearing = 186°49'11"

IP 7
 coordinate = 265024.3452 5766618.6569
 chainage = 115.3731
 intersect angle = 0°00'00"

IP 8
 coordinate = 265019.7924 5766580.5876
 chainage = 153.7138
 intersect angle = 0°00'00"

IP 9
 coordinate = 265016.5282 5766553.2925
 chainage = 181.2033

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



DRAWING TITLE
ARMSTRONG - STAGE 47B ROAD LONGITUDINAL SECTIONS - 2

STATUS
ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R401	1

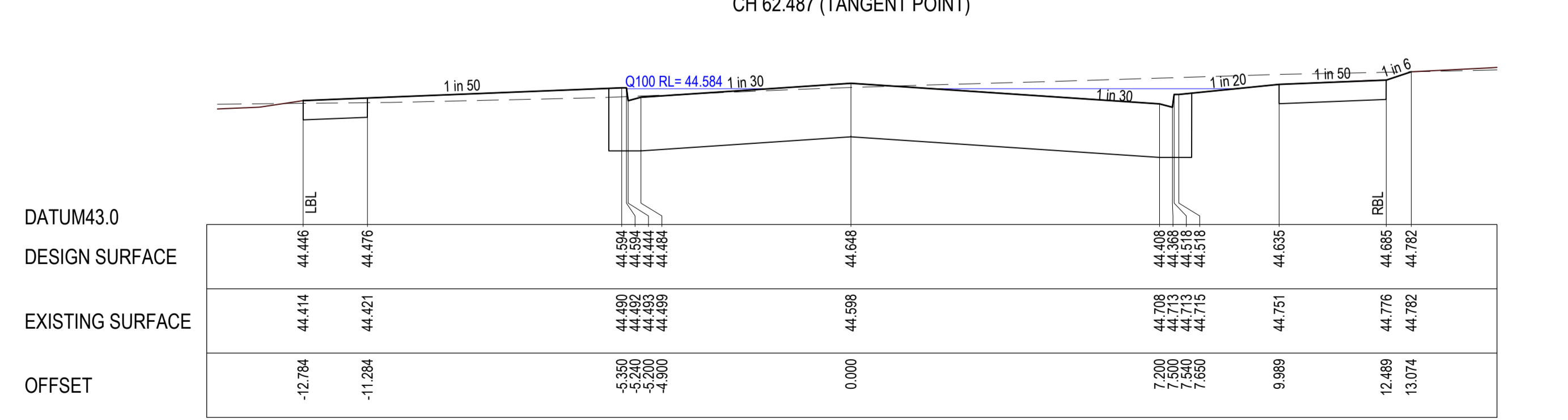
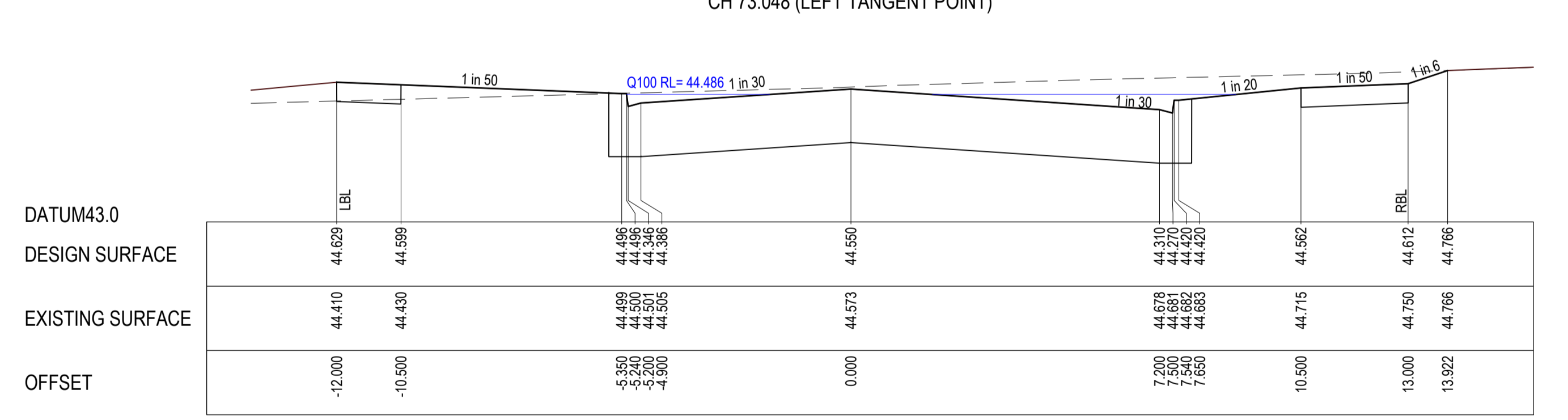
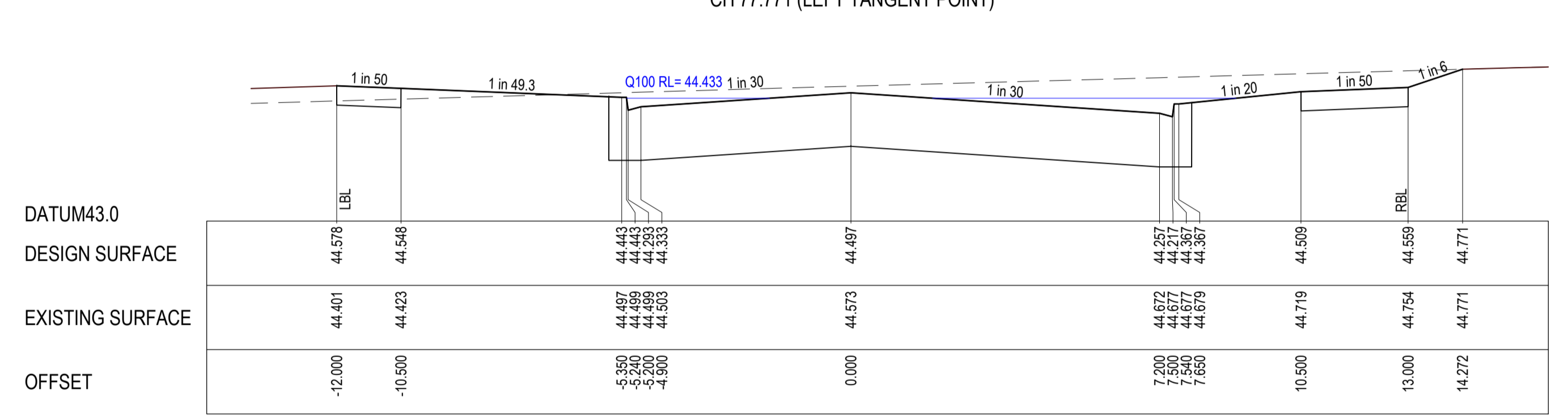
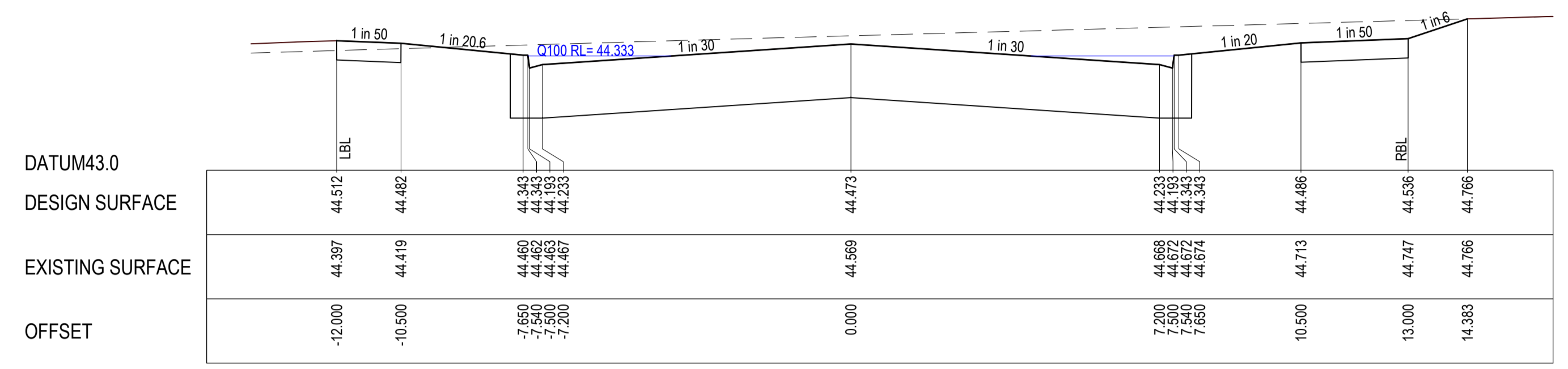
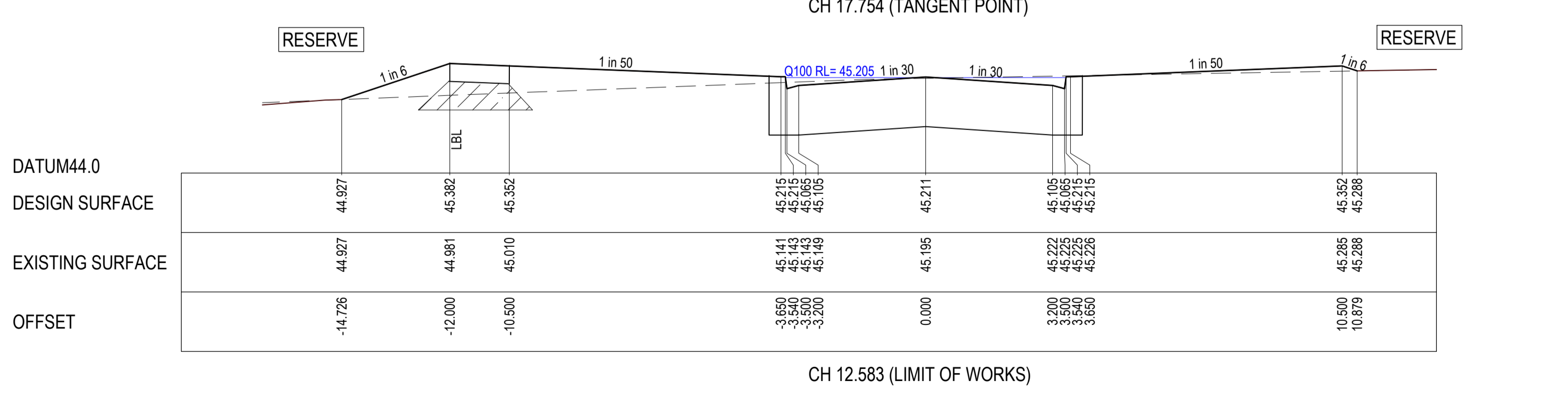
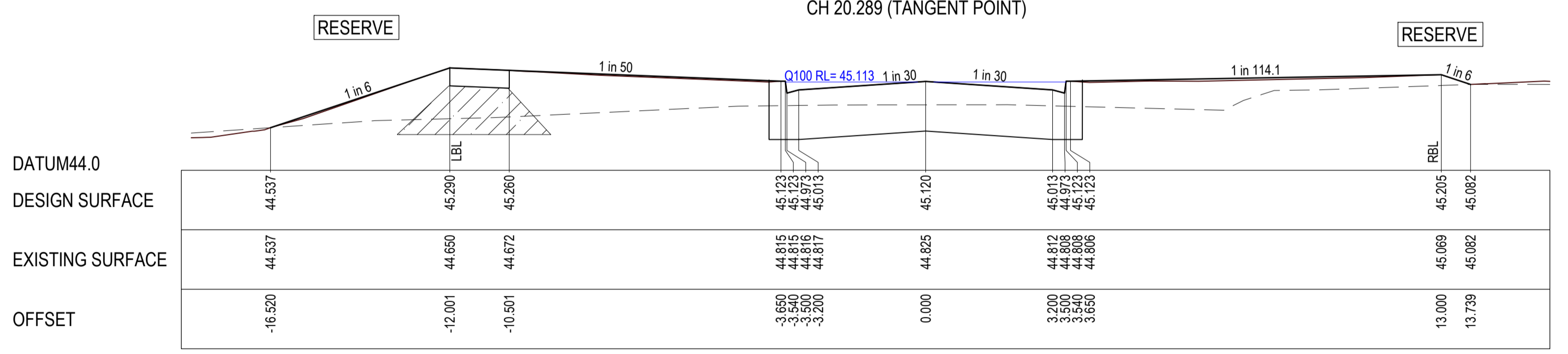
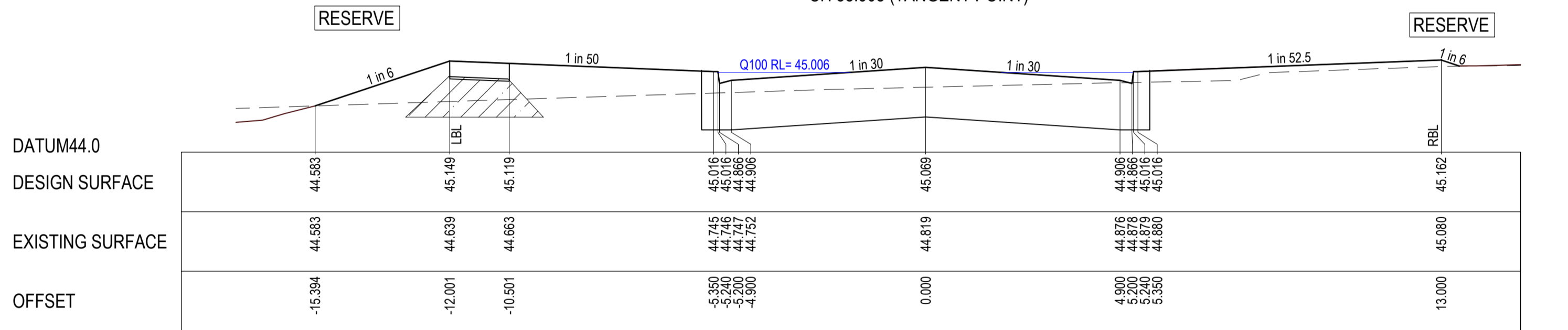
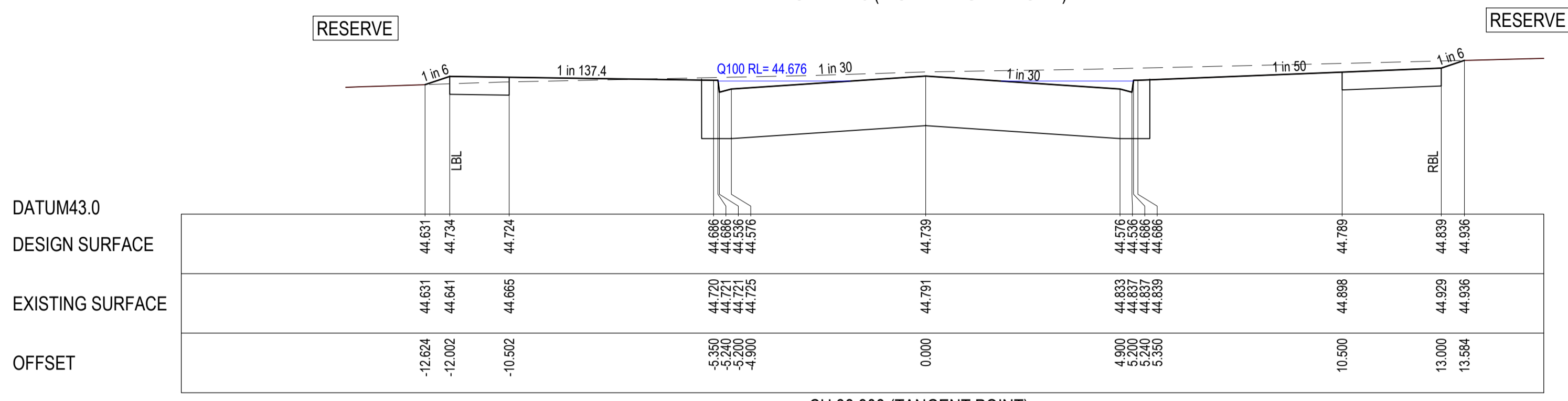
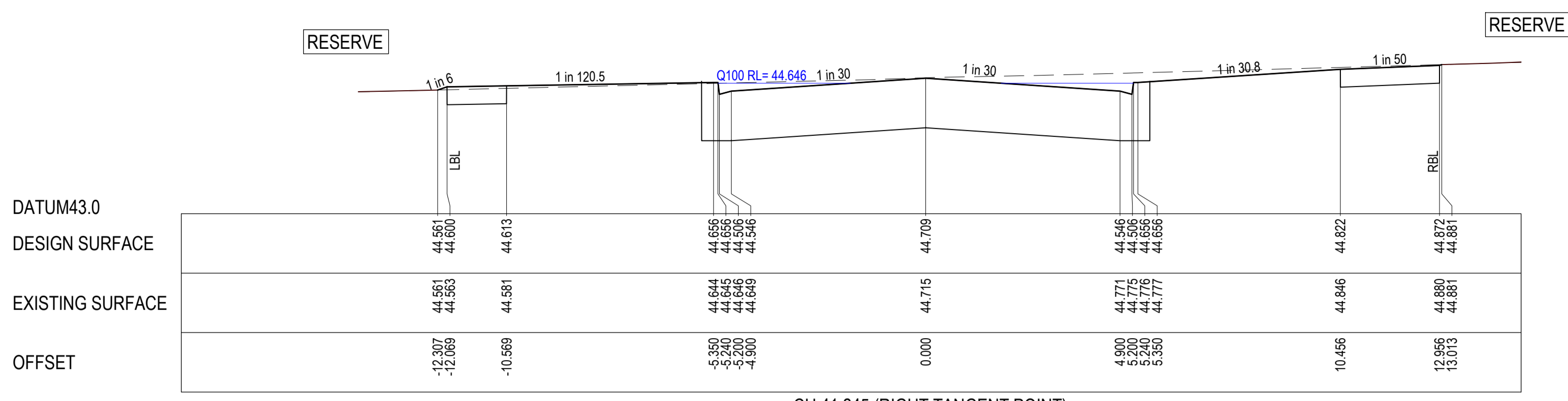
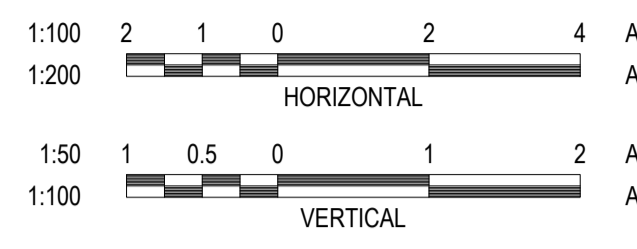
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

NOTE
SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

WARNING
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LEGEND
--- EXISTING SURFACE
— DESIGN LINE
/// SELECT FILL



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
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A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

creo CONSULTANTS

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

PROJECT

DRAWING TITLE

**ARMSTRONG - STAGE 47B
ROAD CROSS SECTIONS - 1
CORNFLOWER WAY - SHEET 1**

STATUS

**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R500	1

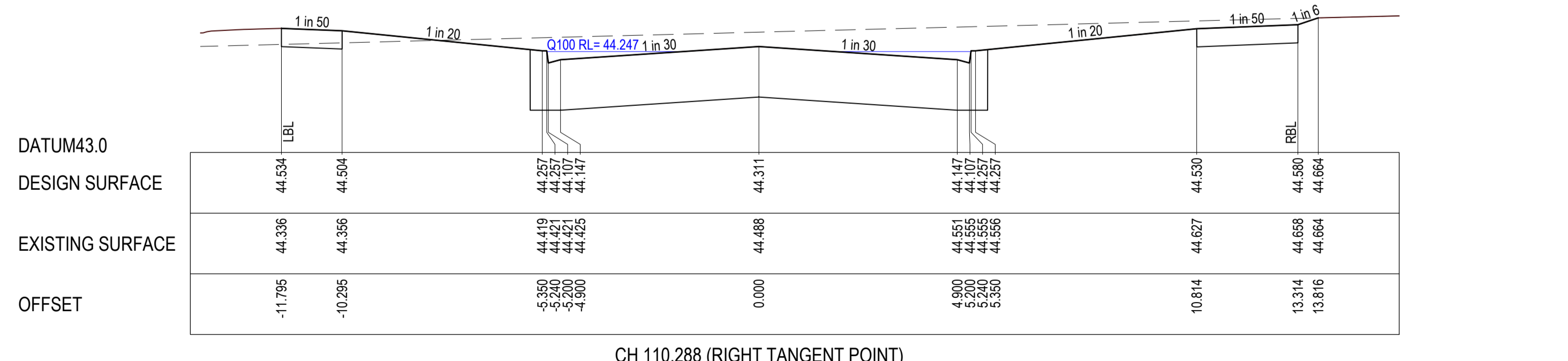
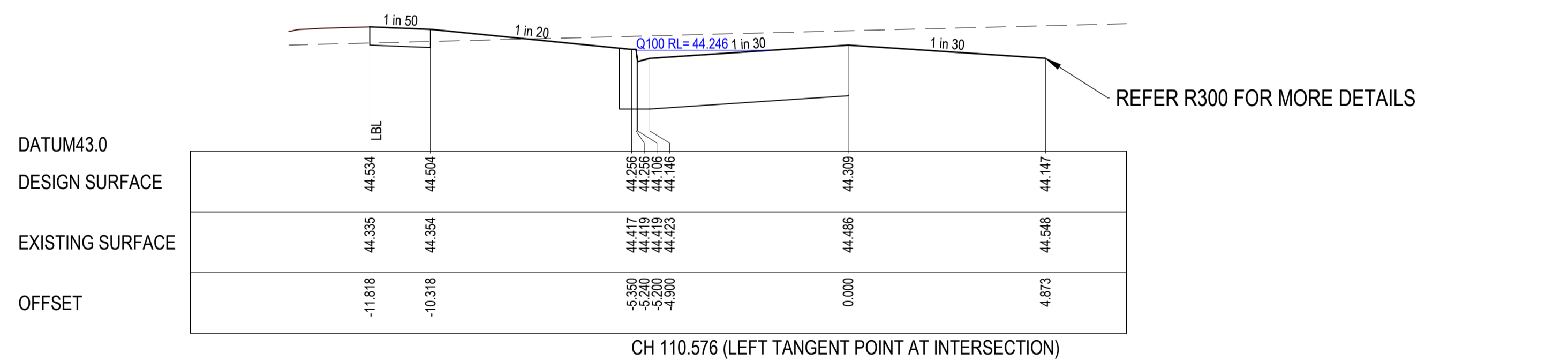
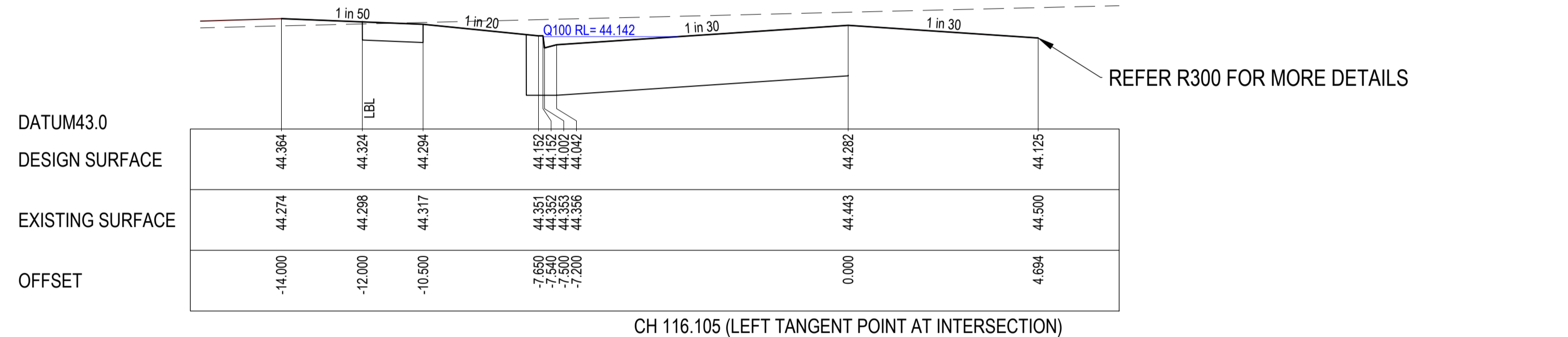
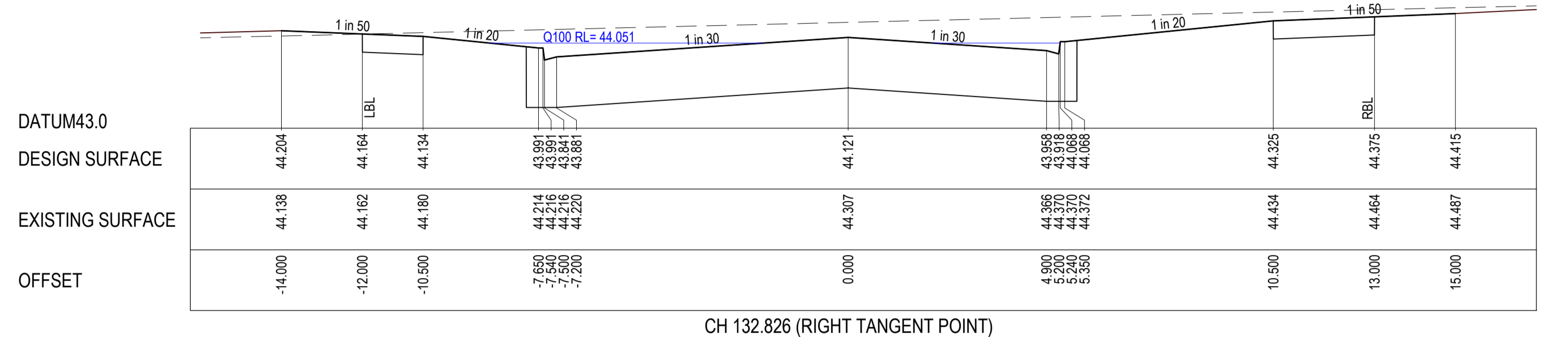
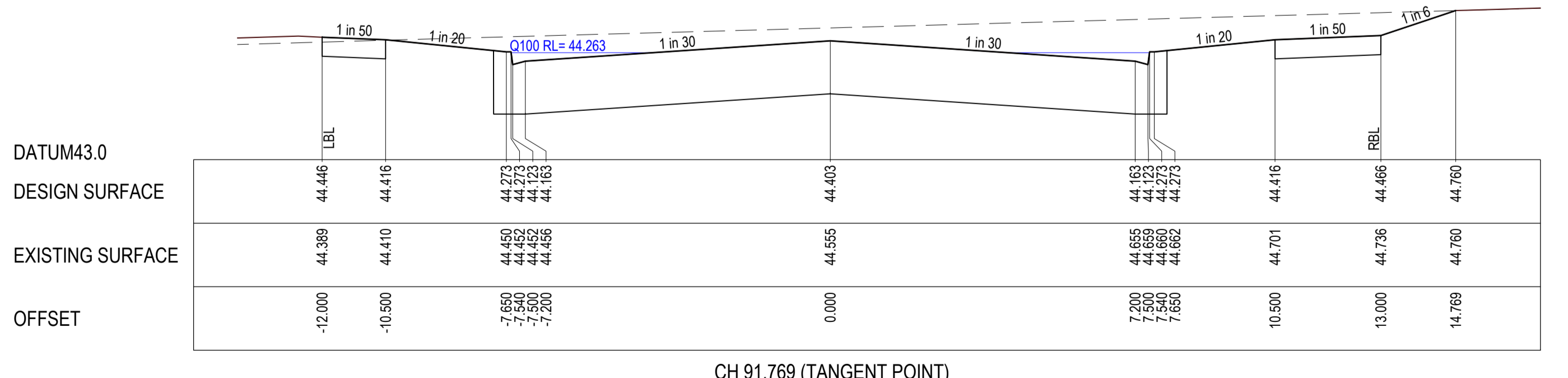
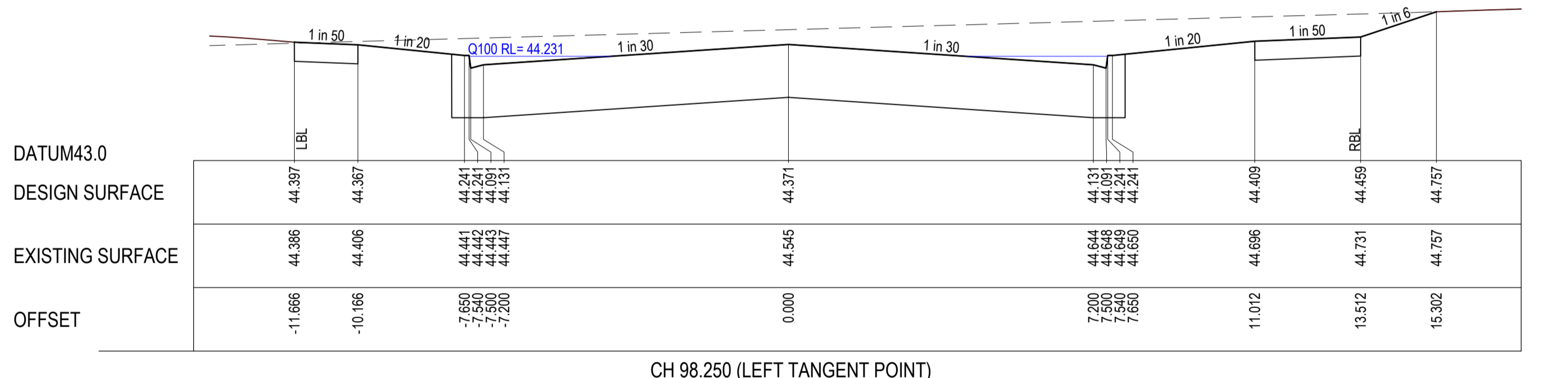
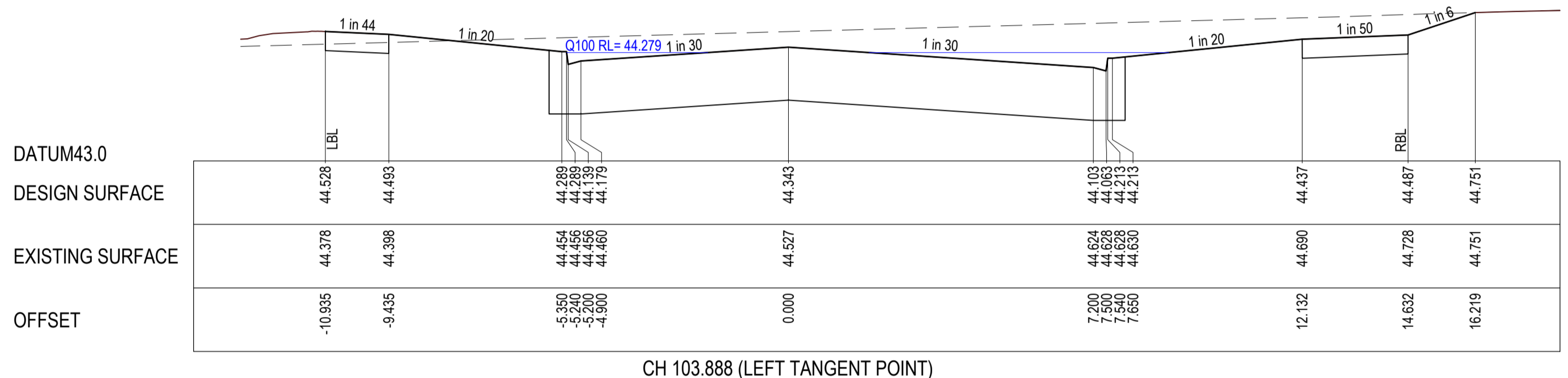
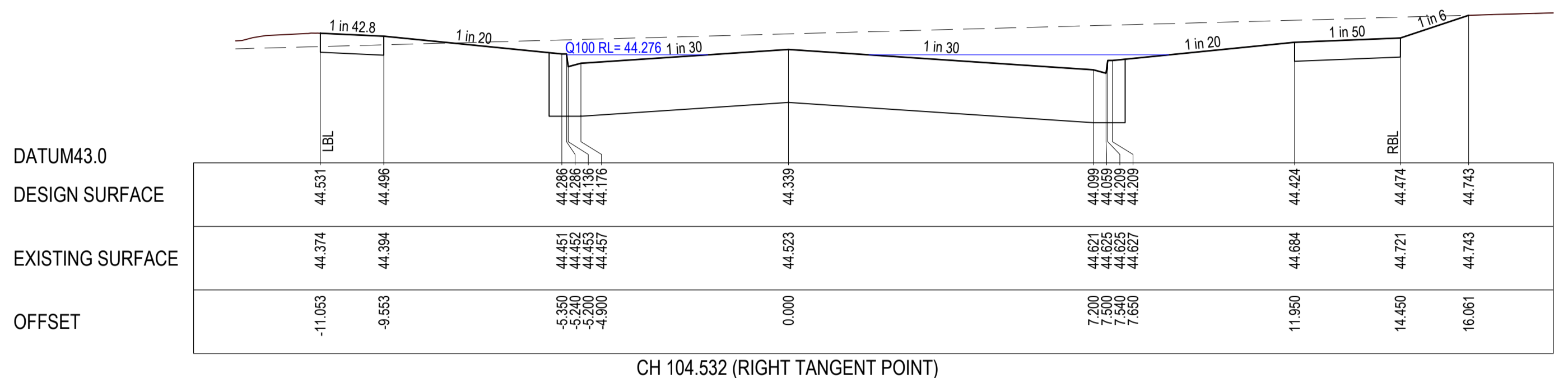
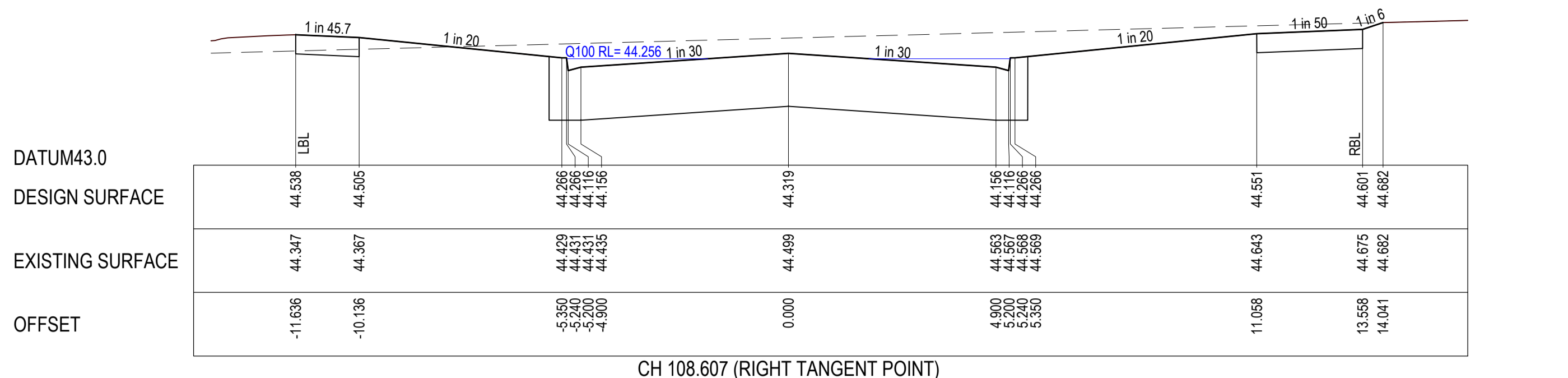
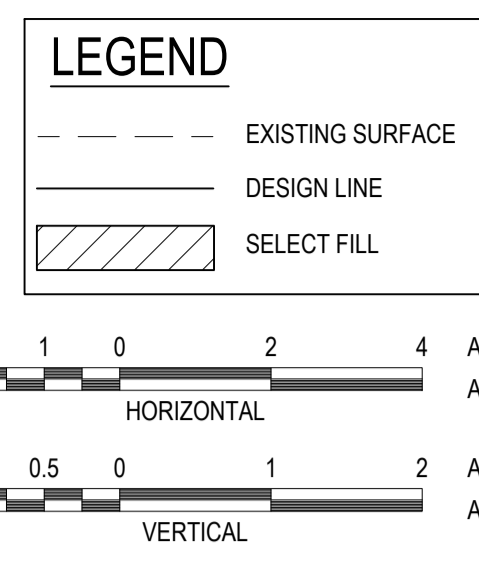
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CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

NOTE
SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
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P:\2018\18016 - VILLAWOOD ARMSTRONG - 18016.47B - R501 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



ARMSTRONG - STAGE 47B ROAD CROSS SECTIONS - 2 CORNFLOWER WAY - SHEET 2

ISSUED FOR CONSTRUCTION

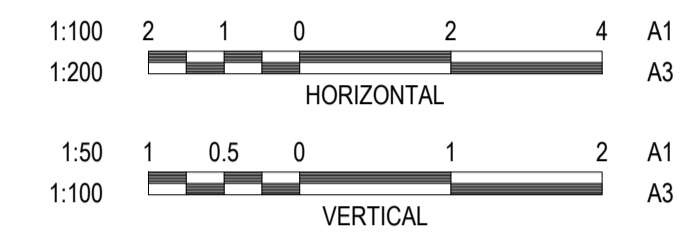
SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R501	1

WARNING
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DIAL 1100 BEFORE YOU DIG
 www.1100.com.au

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

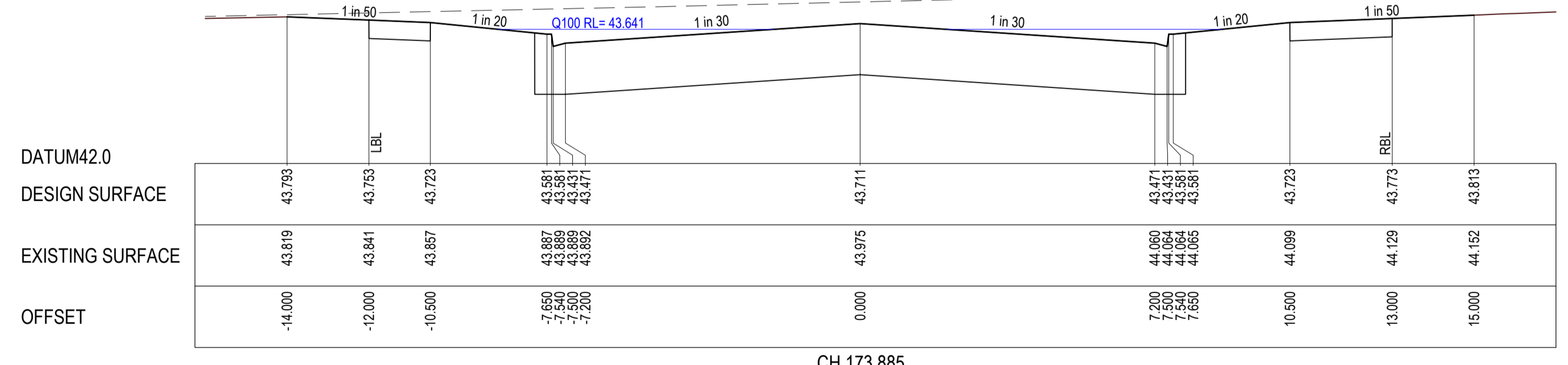
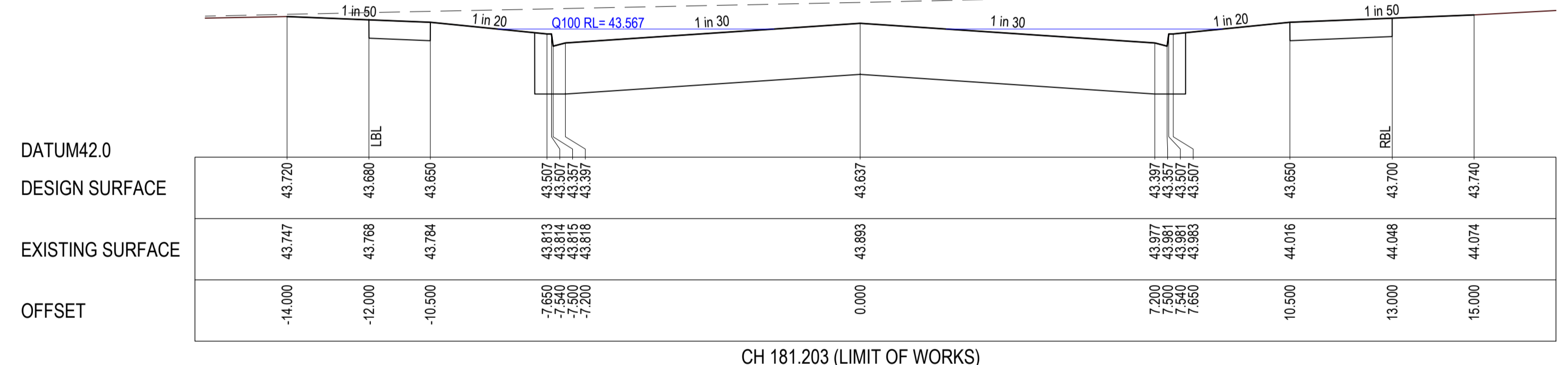
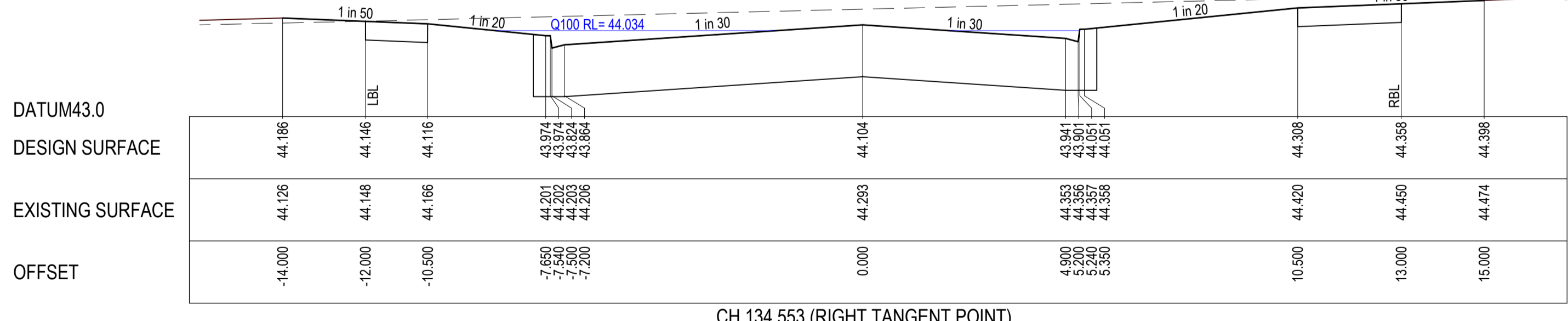
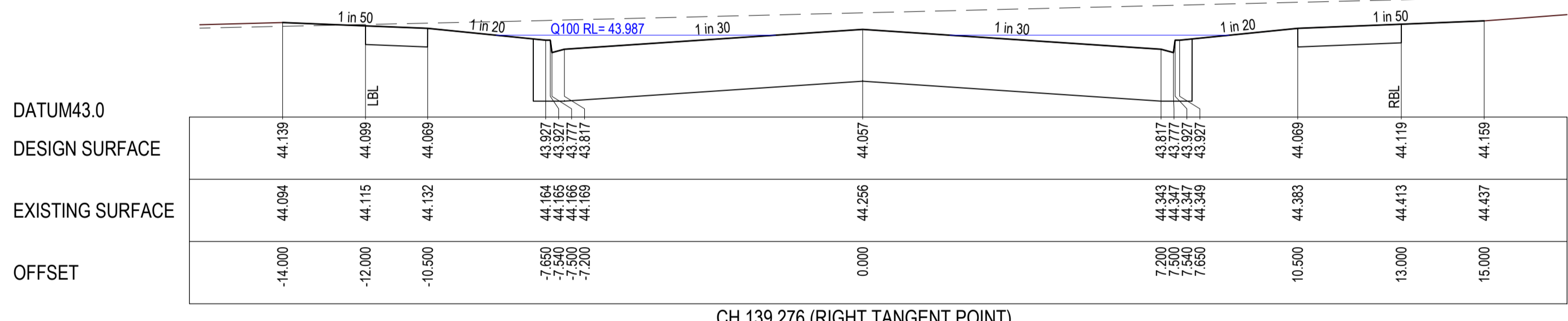
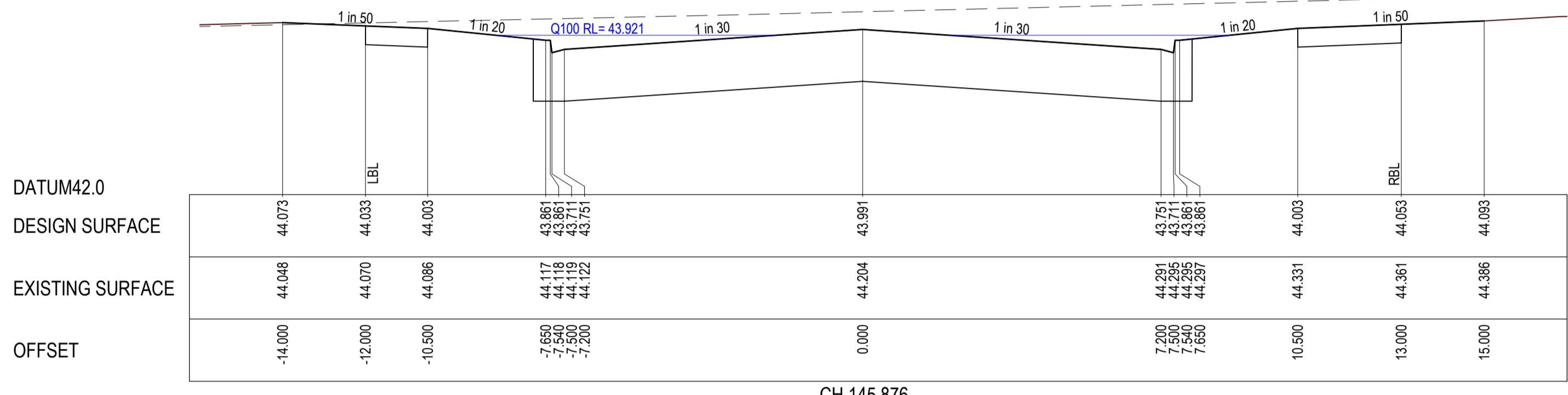
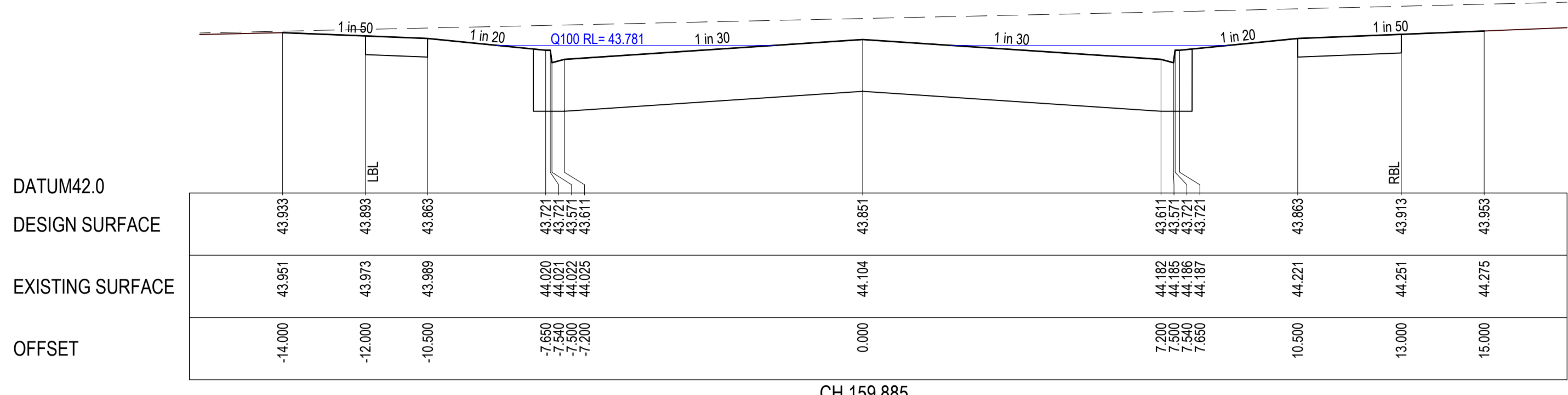
LEGEND

	EXISTING SURFACE
	DESIGN LINE
	SELECT FILL



NOTE
 SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
 CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES



P:\2018\18016 - VILAWOOD ARMSTRONG\18016-47B-3 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

villawood
 properties
 Communities Designed for Living

creo
 CONSULTANTS
 Level 7, 176 Wellington Parade
 East Melbourne, VIC, Australia 3002

ARMSTRONG
 MTDUNNEE

**ARMSTRONG - STAGE 47B
 ROAD CROSS SECTIONS - 3
 CORNFLOWER WAY - SHEET 3**

**ISSUED FOR
 CONSTRUCTION**

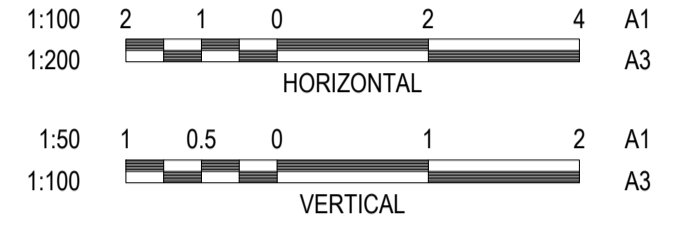
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AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R502	1

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CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

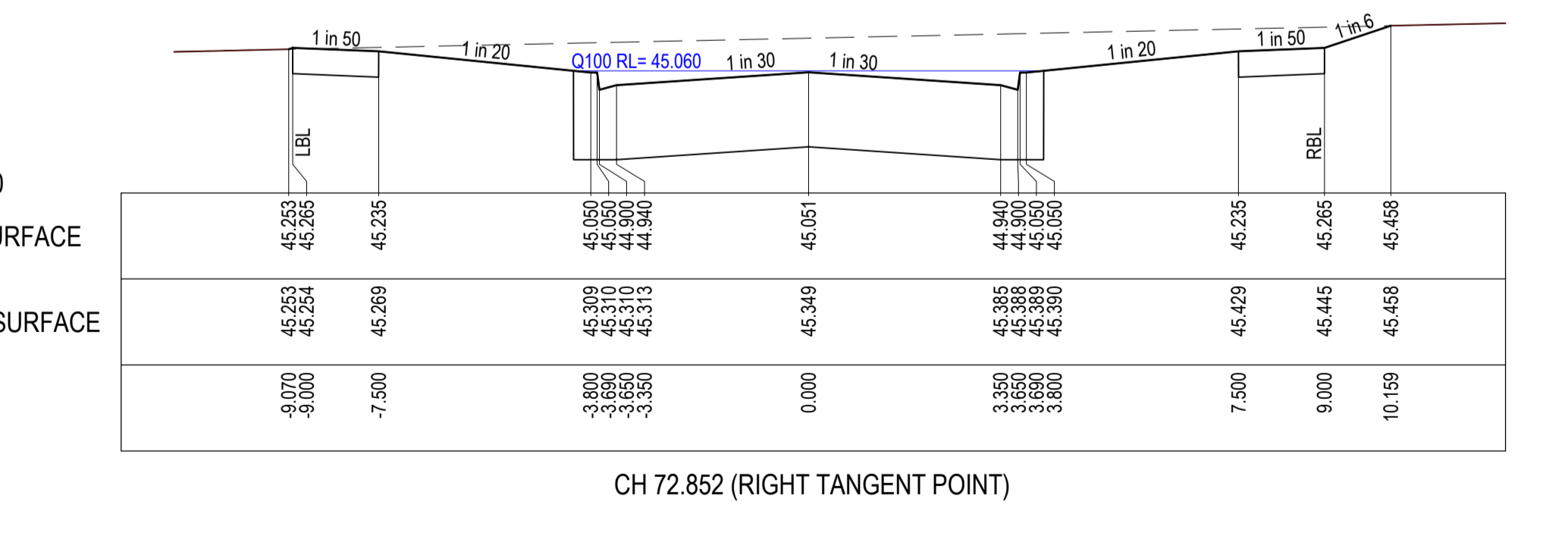
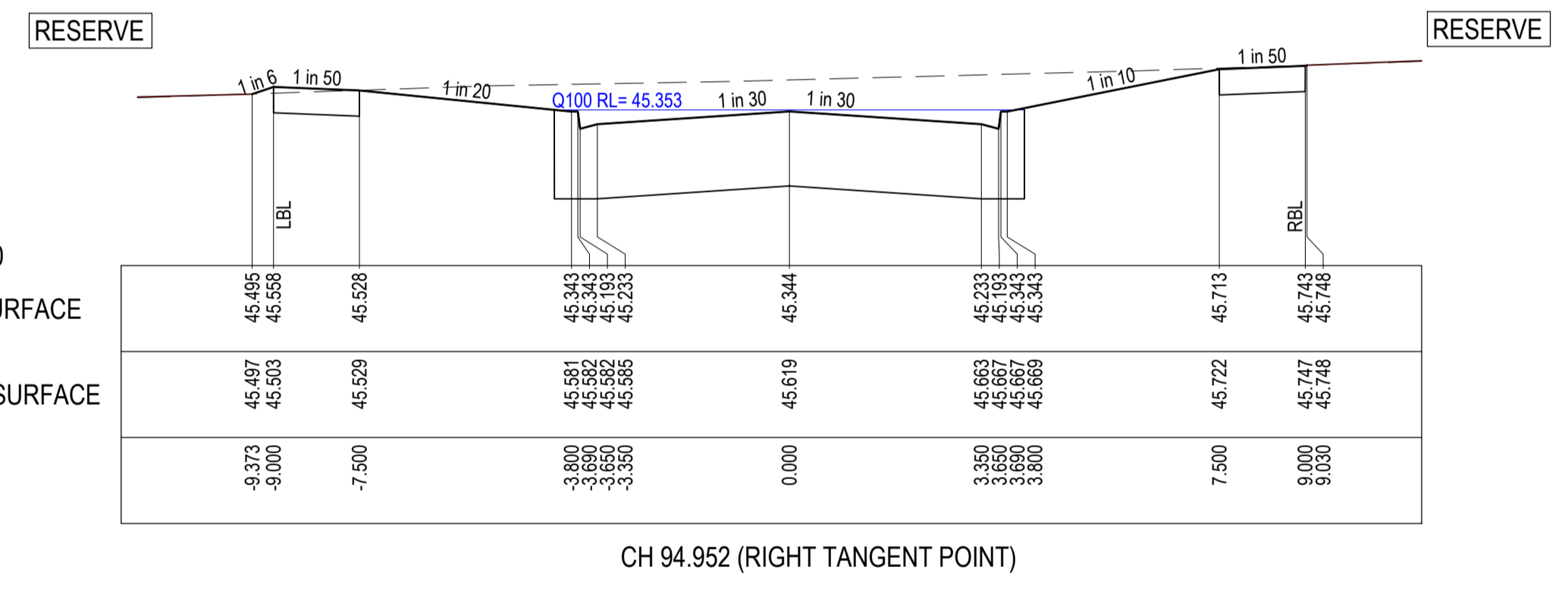
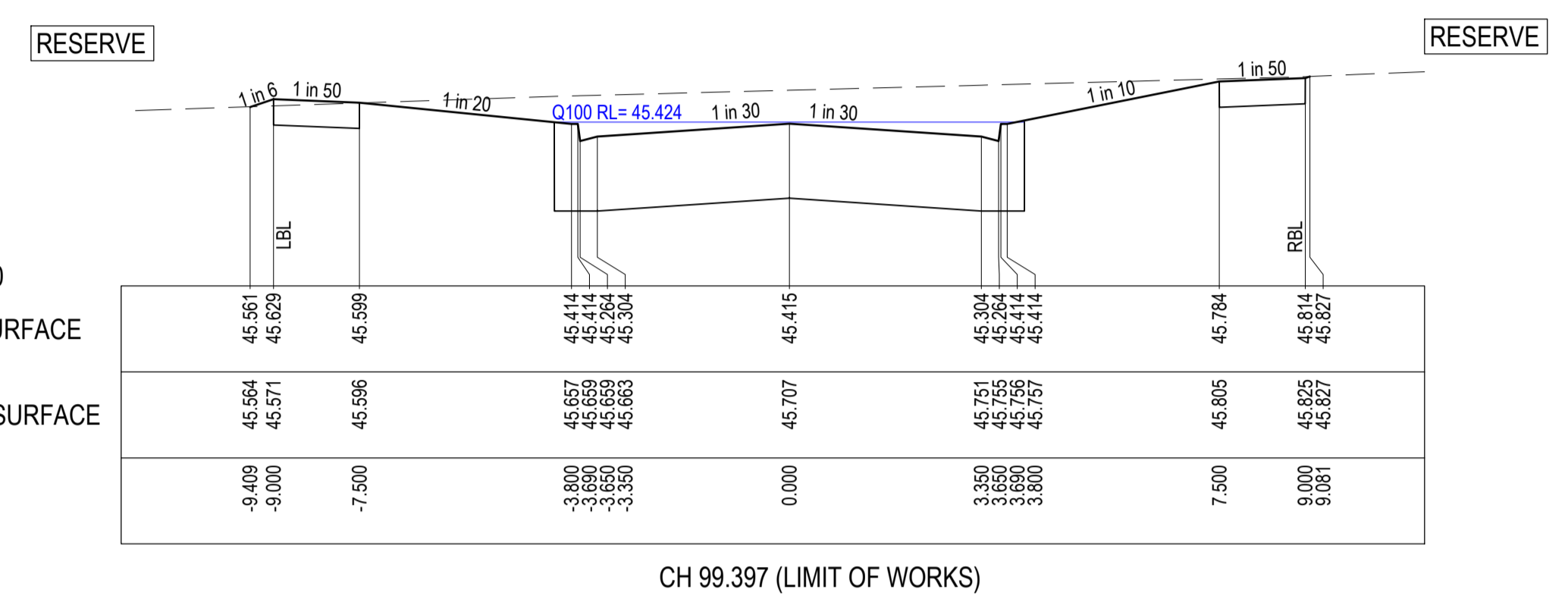
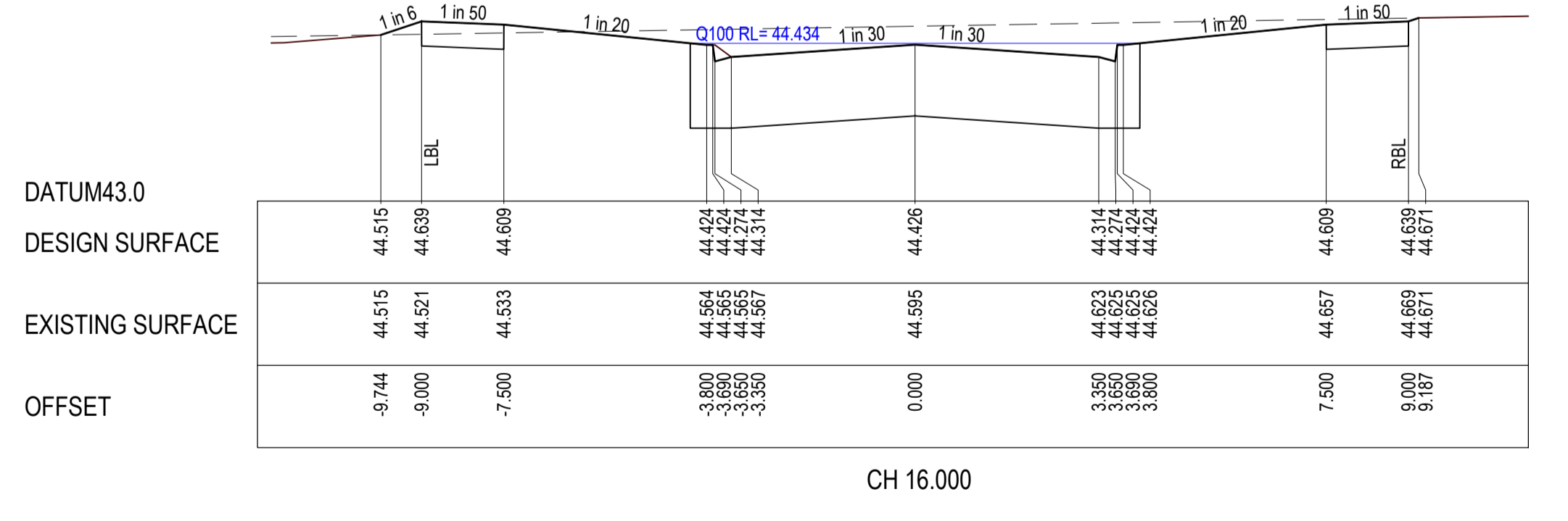
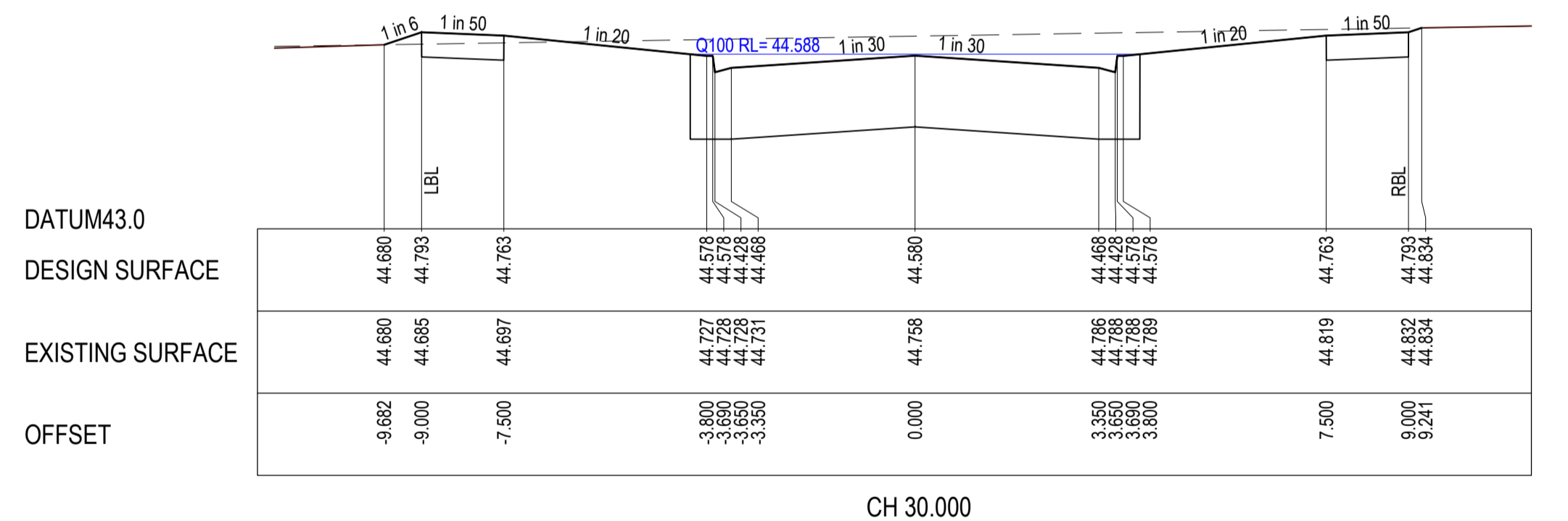
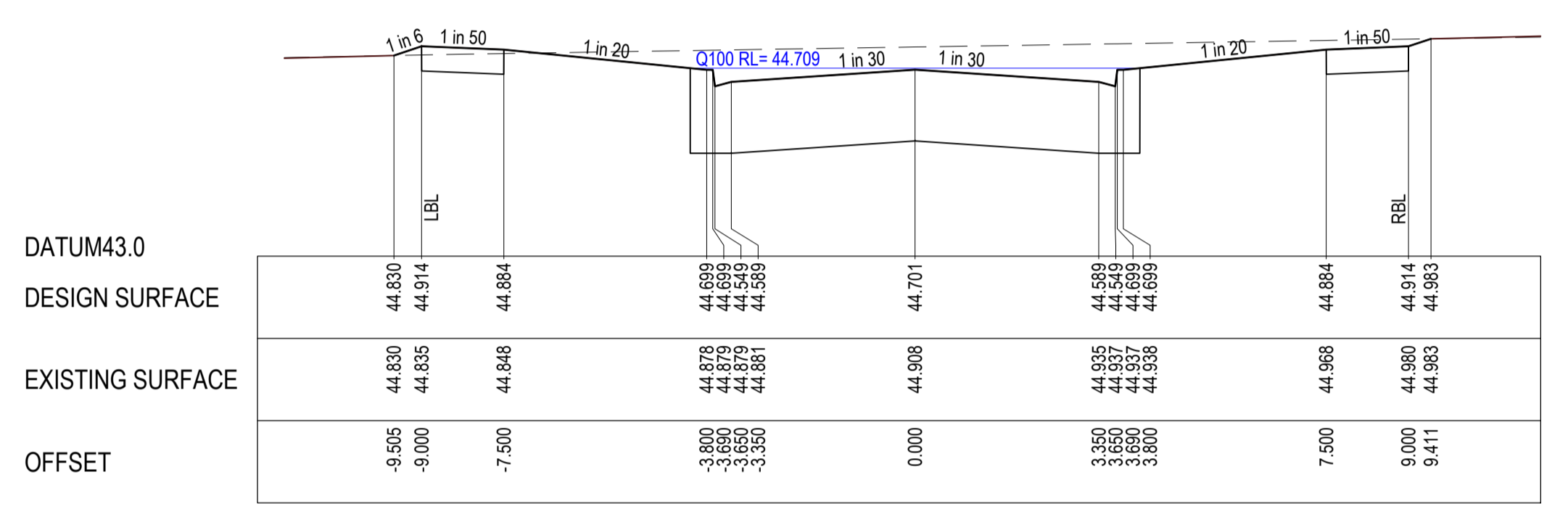
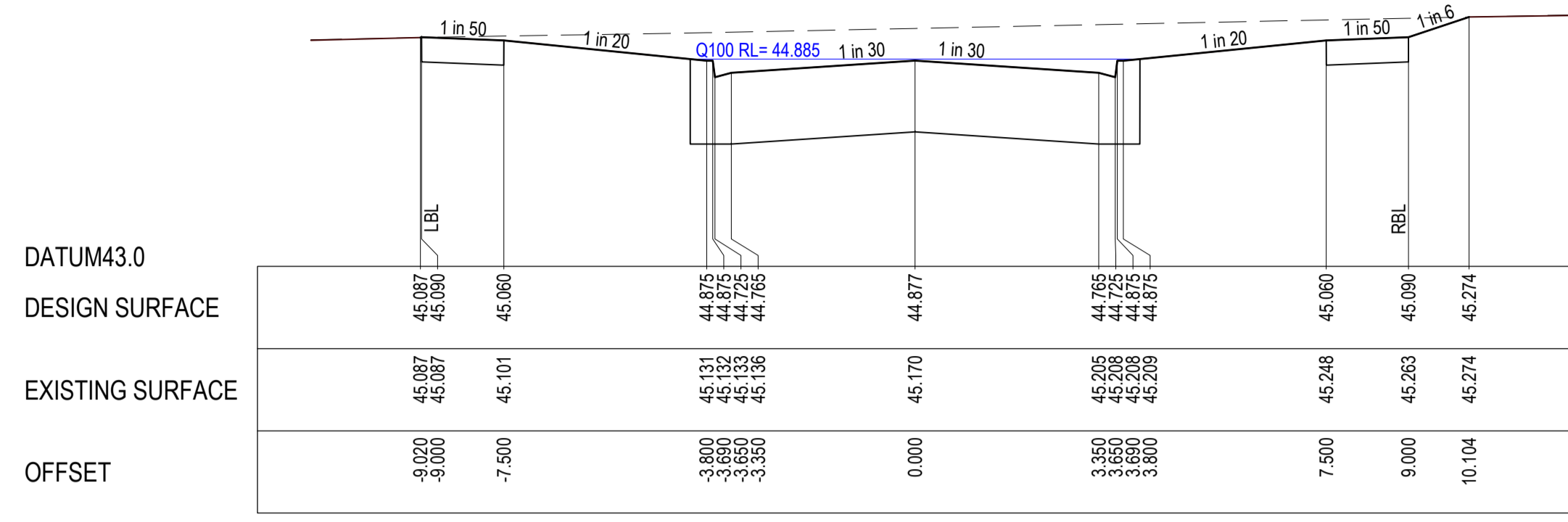
LEGEND

	EXISTING SURFACE
	DESIGN LINE
	SELECT FILL



NOTE
 SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

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P:\2018\18016 - VILAWOOD ARMSTRONG STAGE 47B - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
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A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

PROJECT

Level 7, 176 Wellington Parade
 East Melbourne, VIC, Australia 3002

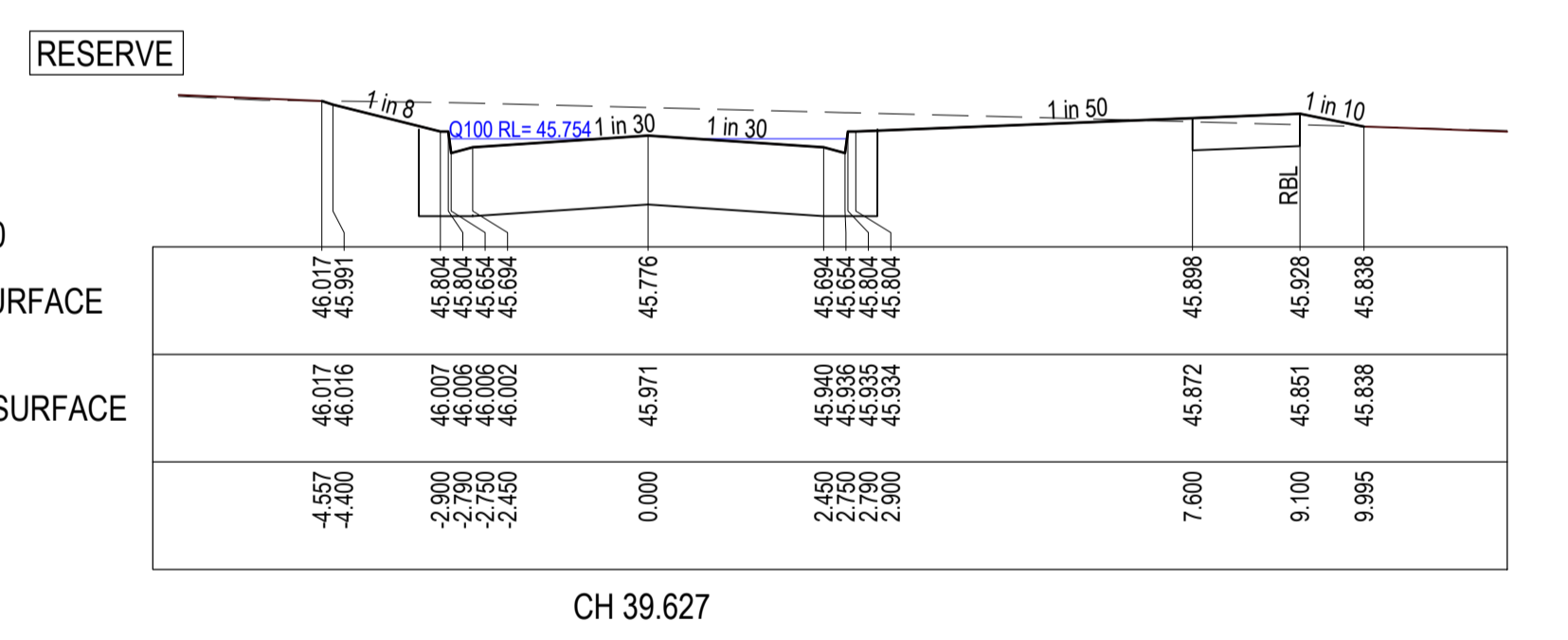
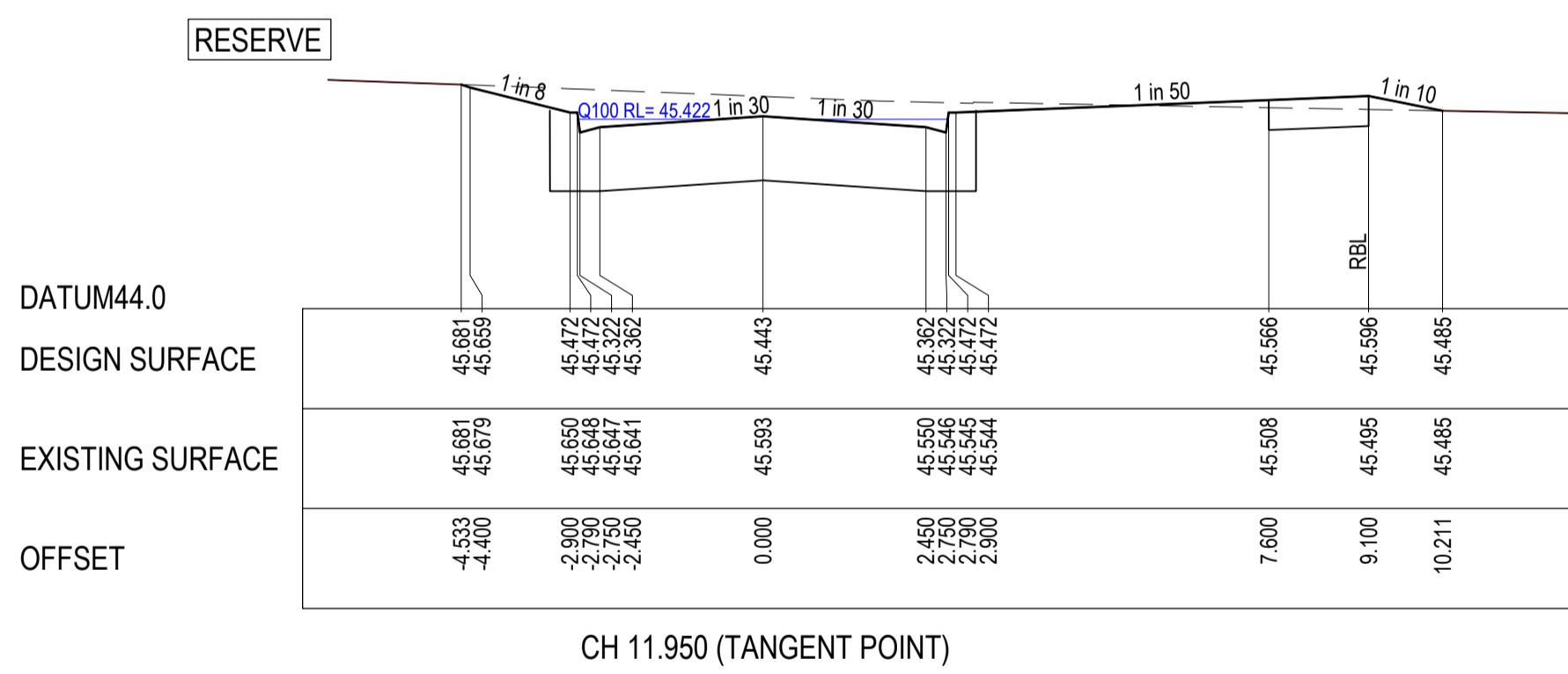
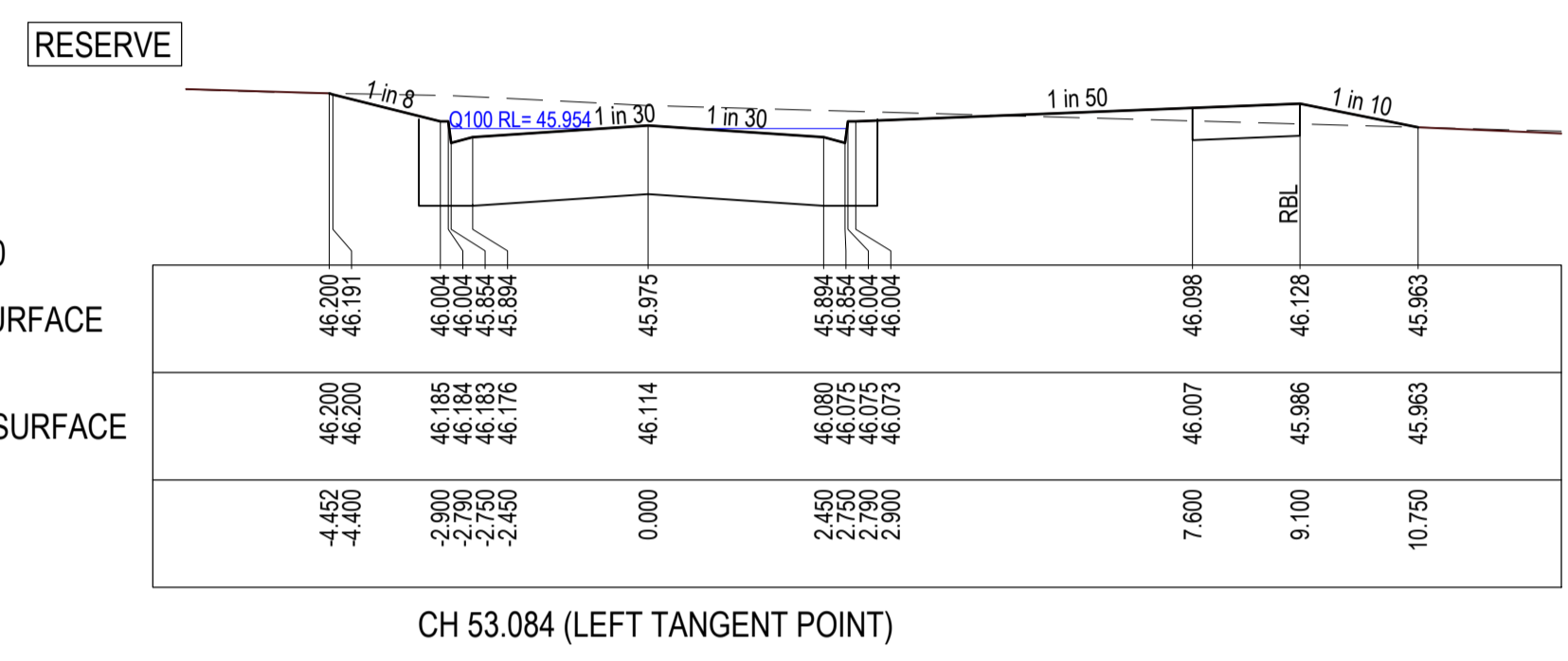
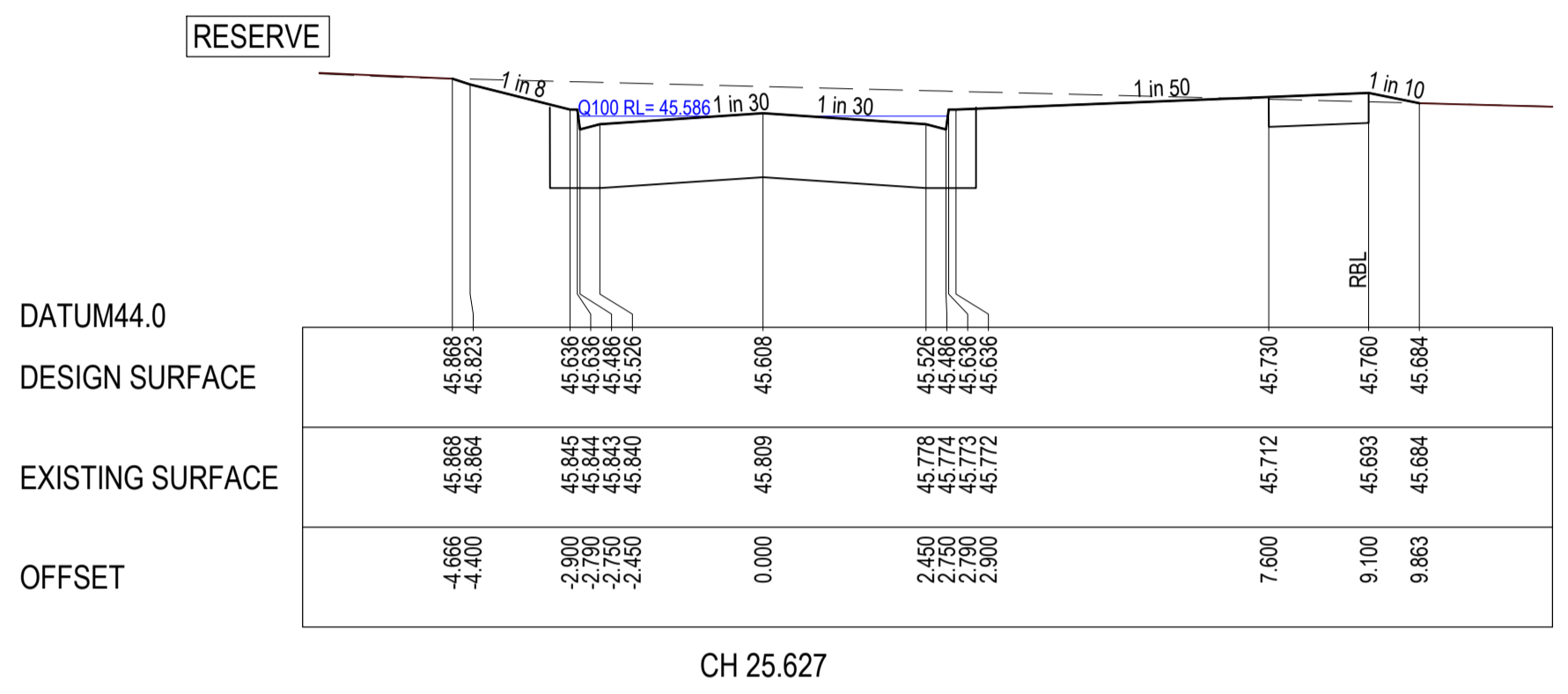
DRAWING TITLE

ARMSTRONG - STAGE 47B
 ROAD CROSS SECTIONS - 4
 NECTAR DRIVE

STATUS

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R503	1



P:\2018\18016 - VILAWOOD ARMSTRONG\18016_47B\18016_47B_4500 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
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A	02/12/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

PROJECT

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

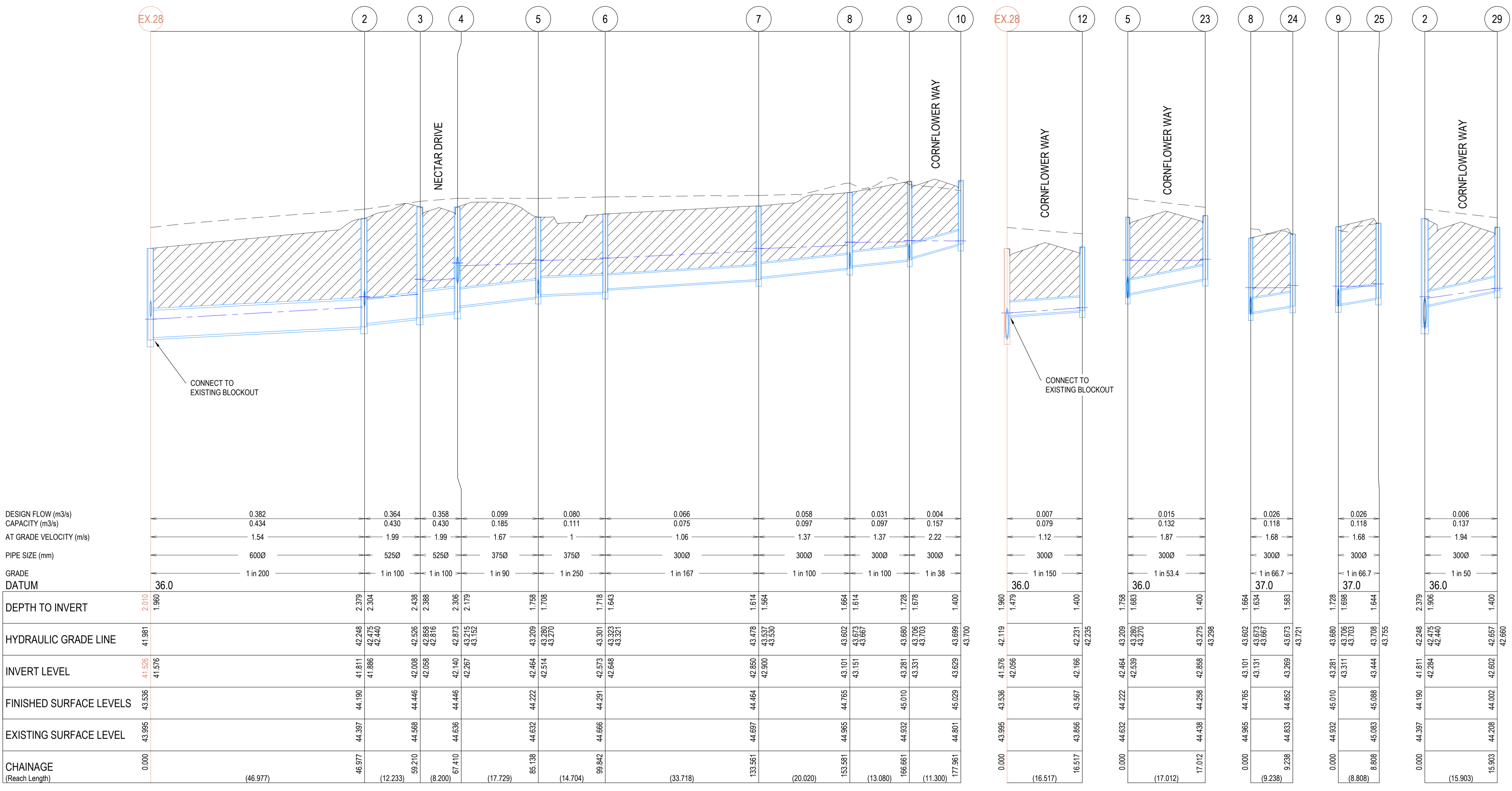
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ARMSTRONG - STAGE 47B
ROAD CROSS SECTIONS - 5
JOURNEY CRESCENT

STATUS

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R504	1

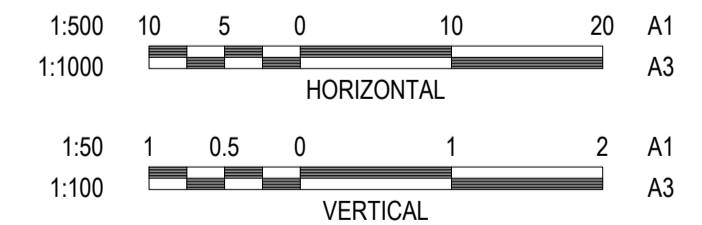


DESIGN FLOW (m³/s)	CAPACITY (m³/s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	GRADE	DATUM	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE (Reach Length)
0.382	0.434	1.54	6000	1 in 200	36.0	2.010	41.981	41.576	43.536	43.995	0.000
0.364	0.430	1.99	5250	1 in 100	36.0	2.379	42.248	41.811	44.190	44.397	46.977
0.358	0.430	1.99	5250	1 in 100	36.0	2.438	42.526	42.008	44.446	44.568	59.210
0.099	0.185	1.67	3750	1 in 90	36.0	2.306	42.873	42.140	44.446	44.636	67.410
0.080	0.111	1	3750	1 in 250	36.0	1.758	43.209	42.464	44.222	44.632	85.138
0.066	0.075	1.06	3000	1 in 167	36.0	1.708	43.280	42.514	44.464	44.697	99.842
0.058	0.097	1.37	3000	1 in 100	36.0	1.614	43.478	42.850	44.765	44.965	133.561
0.031	0.097	2.22	3000	1 in 100	36.0	1.564	43.537	43.323	45.010	45.029	166.661
0.004	0.157	1.37	3000	1 in 38	36.0	1.400	43.667	43.331	45.010	45.029	177.961
0.007	0.079	1.12	3000	1 in 150	36.0	1.960	42.119	42.096	43.995	43.856	165.517
0.015	0.132	1.87	3000	1 in 53.4	36.0	1.400	42.235	42.105	44.632	44.438	17.012
0.026	0.118	1.68	3000	1 in 66.7	37.0	1.664	43.209	43.101	44.765	44.833	9.238
0.026	0.118	1.68	3000	1 in 66.7	37.0	1.698	43.280	43.131	44.852	45.088	9.238
0.006	0.137	1.94	3000	1 in 50	36.0	1.906	42.248	41.811	44.190	44.208	15.903
0.006	0.137	1.94	3000	1 in 50	36.0	1.906	42.248	41.811	44.190	44.208	15.903

NOTES

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
 - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE.
- ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
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REINFORCED CONCRETE PIPES
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LEGEND

	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

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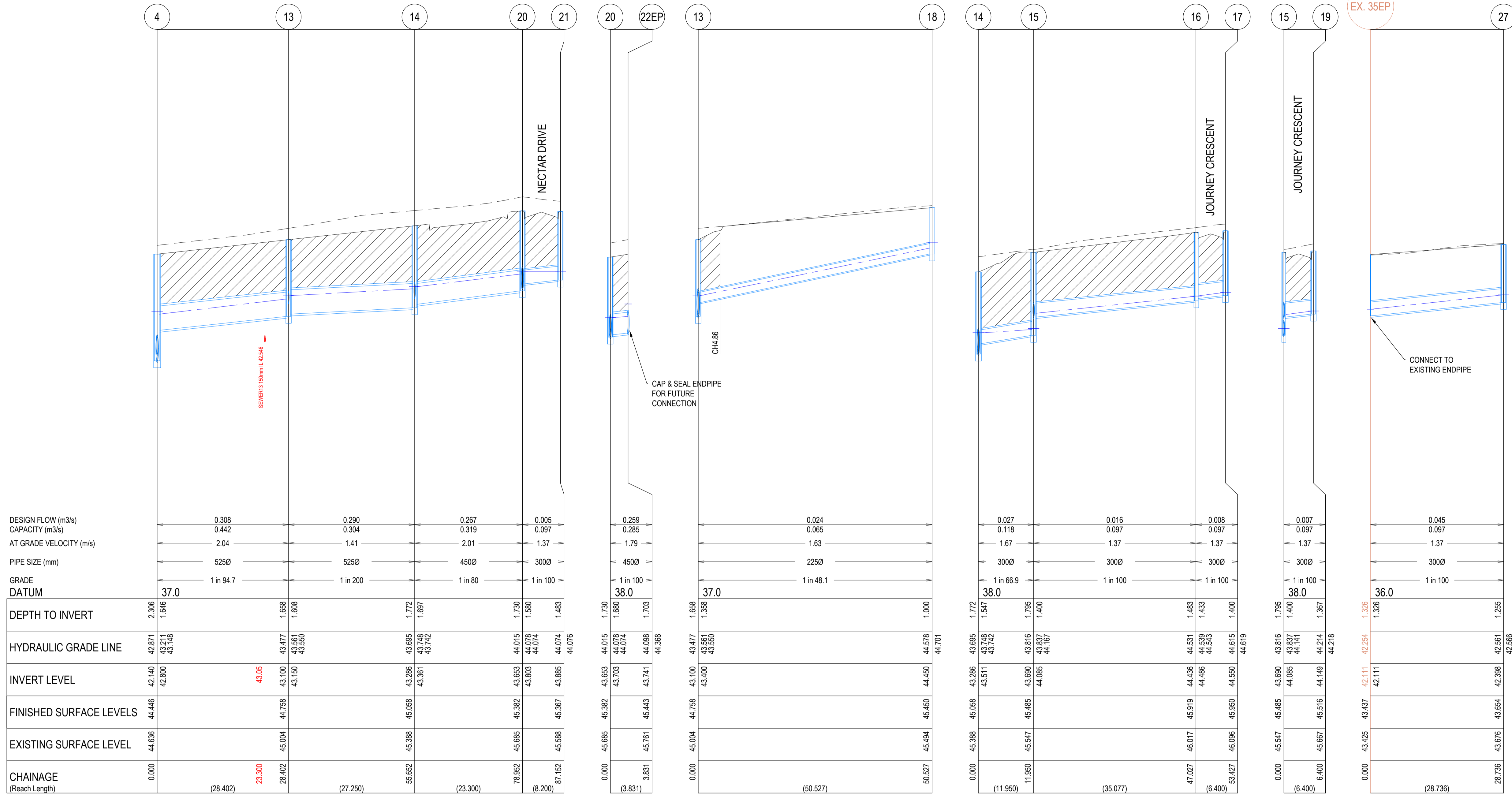
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
B	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
C	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



DRAWING TITLE
**ARMSTRONG - STAGE 47B
 DRAINAGE LONG SECTIONS - 1**

STATUS
**ISSUED FOR
 CONSTRUCTION**

SCALE AT A1 AS SHOWN	DRAWN I.HOGAN	DESIGNED I.HOGAN
PROJECT ENGINEER M.TROUNCE	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE NOVEMBER 2020
PROJECT No. 180016.47B	DRAWING No. R600	REVISION 1

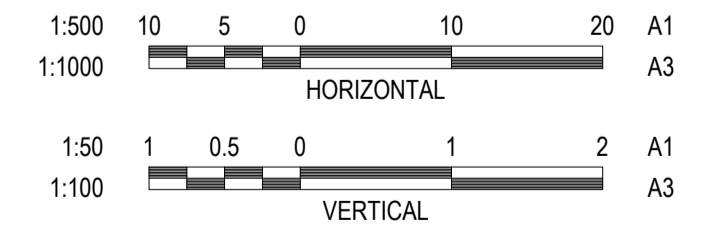


DESIGN FLOW (m³/s)	0.308	0.290	0.267	0.005	0.259	0.024	0.027	0.016	0.008	0.007	0.045
CAPACITY (m³/s)	0.442	0.304	0.319	0.097	0.285	0.065	0.118	0.097	0.097	0.097	0.097
AT GRADE VELOCITY (m/s)	2.04	1.41	2.01	1.37	1.79	1.63	1.67	1.37	1.37	1.37	1.37
PIPE SIZE (mm)	5250	5250	4500	3000	4500	2250	3000	3000	3000	3000	3000
GRADE DATUM	1 in 94.7	1 in 200	1 in 80	1 in 100	1 in 100	1 in 48.1	1 in 66.9	1 in 100	1 in 100	1 in 100	1 in 100
DEPTH TO INVERT	2.306 1.646	1.698 1.688	1.772 1.697	1.730 1.580	1.730 1.483	1.730 1.000	1.772 1.547	1.795 1.400	1.483 1.433	1.400 1.367	1.326 1.255
HYDRAULIC GRADE LINE	42.871 43.148	43.477 43.350	43.695 43.742	44.015 44.074	44.015 44.074	44.578 44.701	43.748 43.742	43.816 44.167	44.531 44.523	44.615 44.619	43.816 44.141
INVERT LEVEL	42.140 42.800	43.100 43.150	43.286 43.361	43.653 43.803	44.015 44.074	44.450 44.450	43.511 43.511	43.690 44.085	44.436 44.486	44.550 44.550	43.690 44.085
FINISHED SURFACE LEVELS	44.446	44.788	45.058	45.392	45.367	45.450	45.058	45.485	46.017	45.950	45.485
EXISTING SURFACE LEVEL	44.636	45.004	45.388	45.685	45.588	45.494	45.388	45.547	46.017	46.096	45.547
CHAINAGE (Reach Length)	0.000 (28.402)	23.300 28.402	43.05 43.150	55.662 (23.300)	78.952 (8.200)	87.152	0.000 (3.831)	44.788 43.400	43.100 43.561	43.100 43.550	44.504 44.450

NOTES

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
 - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
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- ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
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- ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF PIPE

REINFORCED CONCRETE PIPES
 ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989. LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPAIRED AT THE CONTRACTORS COST.



LEGEND

	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

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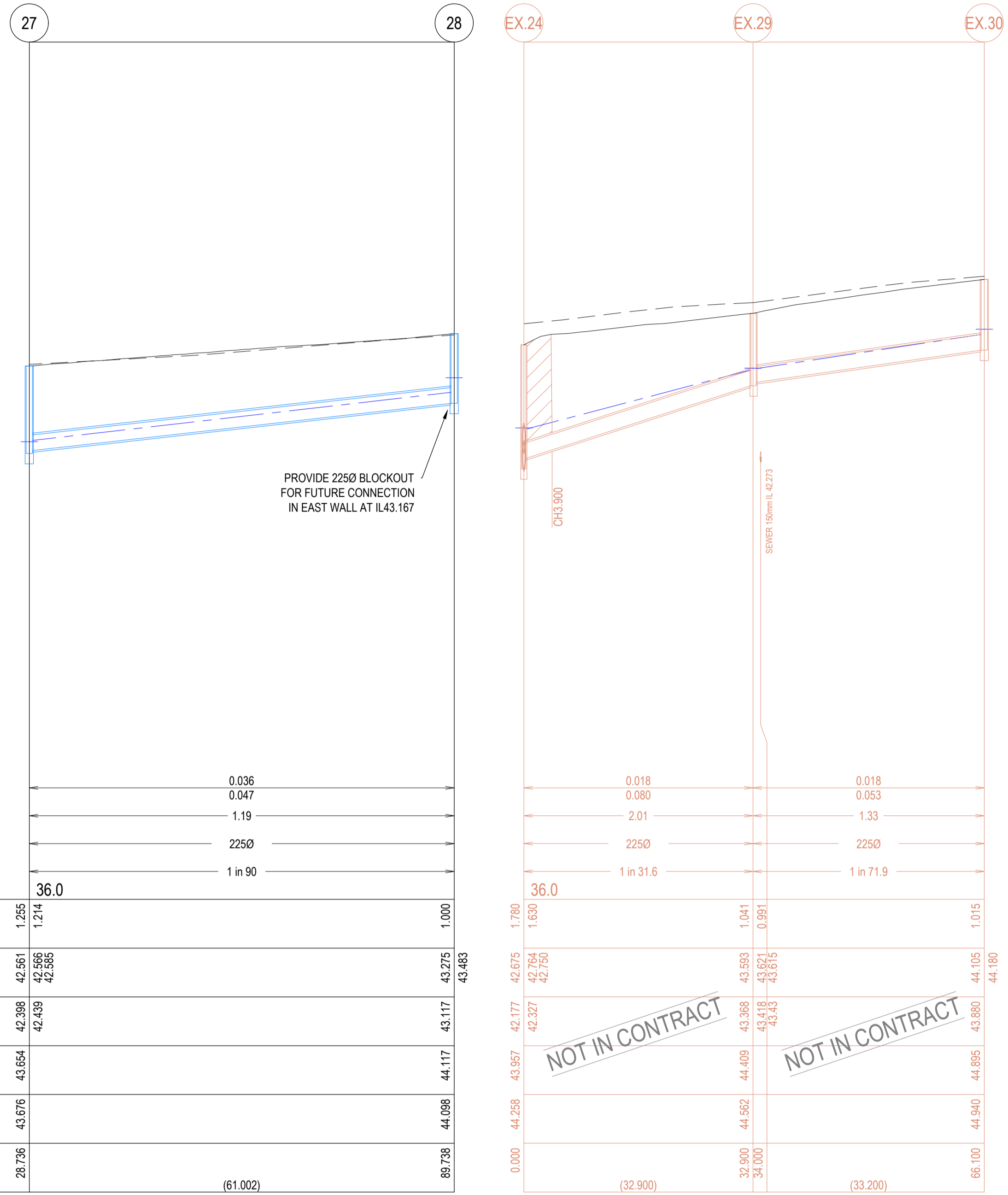
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
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C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



ARMSTRONG - STAGE 47B
DRAINAGE LONG SECTIONS - 2

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R601	1

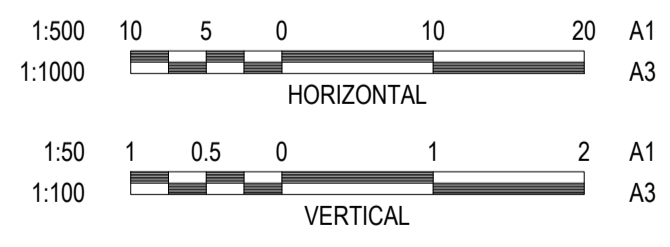


DESIGN FLOW (m ³ /s)	0.036
CAPACITY (m ³ /s)	0.047
AT GRADE VELOCITY (m/s)	1.19
PIPE SIZE (mm)	2250
GRADE DATUM	36.0
DEPTH TO INVERT	1.255
HYDRAULIC GRADE LINE	42.561
INVERT LEVEL	42.398
FINISHED SURFACE LEVELS	43.654
EXISTING SURFACE LEVEL	43.676
CHAINAGE (Reach Length)	61.002

- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
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NOTE:
 IN ACCORDANCE WITH C.O.G.G DESIGN NOTE 8 (DATED JANUARY 2020) EXISTING DRAINAGE LOCATED WITHIN PROPOSED STAGE WORKS ARE REQUIRED TO BE RE-CCTV'D TO CONFIRM NO CONSEQUENTIAL DAMAGE HAS OCCURRED.



LEGEND

	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

WARNING
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1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.






ARMSTRONG - STAGE 47B DRAINAGE LONG SECTIONS - 3

ISSUED FOR CONSTRUCTION

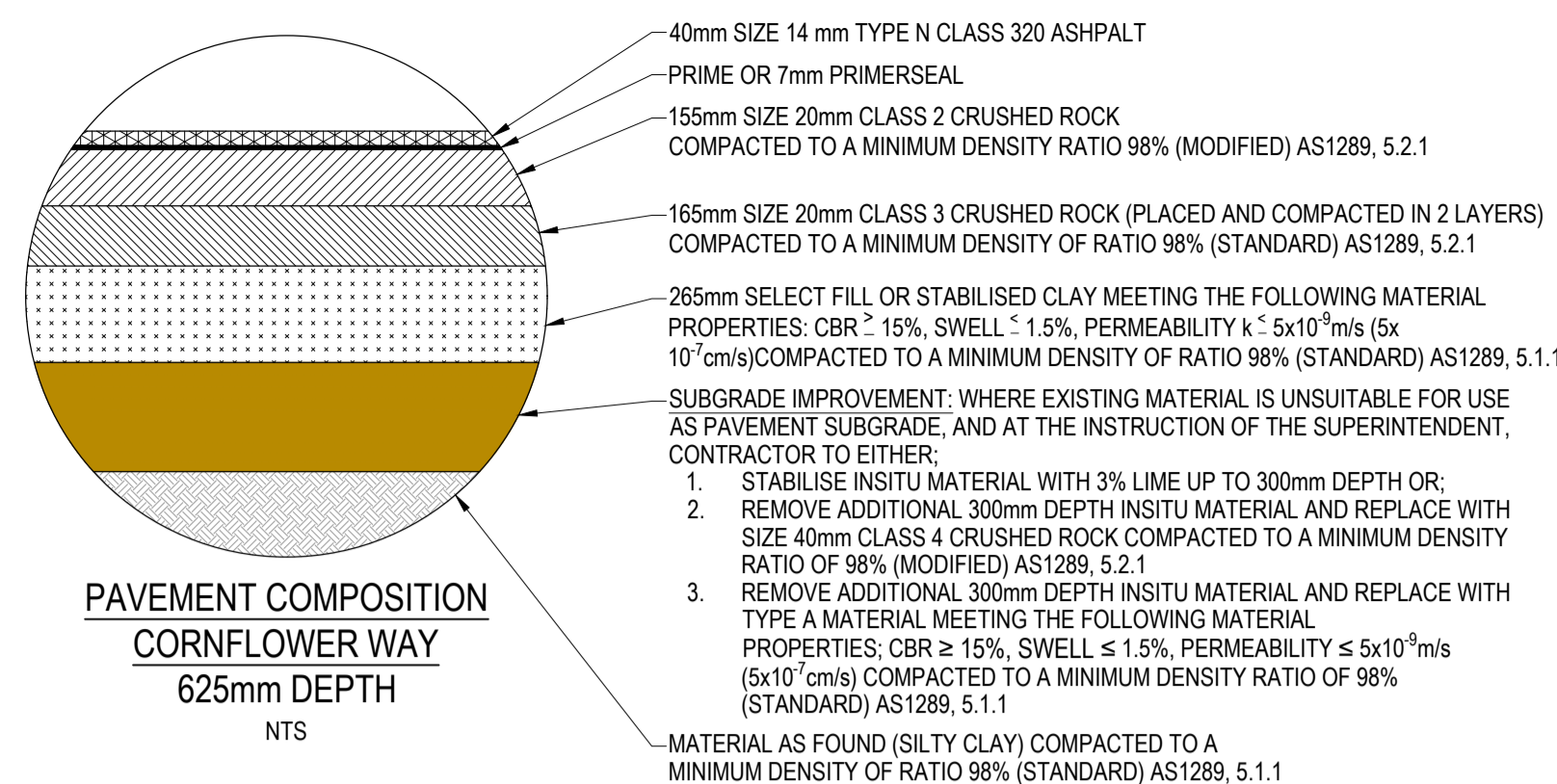
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AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R602	1

PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		COVER LEVEL (m)	DEPTH (m)	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIA. (mm)	INVERT RL (m)	DIA. (mm)	INVERT RL (m)				
EX.28	EXISTING PIT	900	900	600	41.576	600.000	41.526	43.536	1.414		CONNECT TO EXISTING BLOCKOUT
				300	42.057			43.536	1.96		CONNECT TO EXISTING PIT AND MAKE GOOD CONNECTION
2	JUNCTION PIT	900	900	525	41.886	600.000	41.811	44.190	2.379	IDM SD420 & SD410	HAUNCHED TO 600 x 900 COVER
				300	42.284			44.190	2.379		
3	SIDE ENTRY PIT	900	900	525	42.058	525.000	42.008	44.446	2.438	IDM SD430 & SD410	HAUNCHED TO 600 x 900 COVER
4	SIDE ENTRY PIT	900	900	375	42.267	525.000	42.140	44.446	2.306	IDM SD430 & SD410	HAUNCHED TO 600 x 900 COVER
				525	42.800			44.446	2.306		
5	SIDE ENTRY PIT	600	900	375	42.514	375.000	42.464	44.222	1.758	IDM SD430	
				300	42.539			44.222	1.758		
6	SIDE ENTRY PIT	600	900	300	42.648	375.000	42.573	44.291	1.718	IDM SD430	
7	SIDE ENTRY PIT	600	900	300	42.900	300.000	42.850	44.464	1.613	IDM SD430	
8	SIDE ENTRY PIT	600	900	300	43.151	300.000	43.101	44.765	1.664	IDM SD430	
				300	43.131			44.765	1.664		
9	SIDE ENTRY PIT	600	900	300	43.331	300.000	43.281	45.01	1.728	IDM SD430	
				300	43.311			45.010	1.728		
10	SIDE ENTRY PIT	600	900			300.000	43.629	45.010	1.381	IDM SD430	
12	SIDE ENTRY PIT	600	900			300.000	42.167	43.567	1.4	IDM SD430	
13	SIDE ENTRY PIT	900	900	225	43.400			44.758	1.658	IDM SD430	
				525	43.150	525.000	43.100	44.758	1.658		
14	SIDE ENTRY PIT	900	900	300	43.511			45.058	1.772	IDM SD430	
				450	43.361	525.000	43.286	45.058	1.772		
15	SIDE ENTRY PIT	600	900	300	44.085	300.000	43.690	45.485	1.795	IDM SD430	
				300	44.085			45.485	1.795		
16	SIDE ENTRY PIT	600	900	300	44.486	300.000	44.436	45.919	1.483	IDM SD430	
17	SIDE ENTRY PIT	600	900			300.000	44.550	45.950	1.4	IDM SD430	
18	JUNCTION PIT	600	900			225.000	44.450	45.450	1	IDM SD425	
19	SIDE ENTRY PIT	600	900			300.000	44.149	45.516	1.367	IDM SD430	
20	SIDE ENTRY PIT	900	900	300	43.803	450.000	43.653	45.382	1.73	IDM SD430	
				450	43.703			45.382	1.73		
21	SIDE ENTRY PIT	600	900			300.000	43.885	45.367	1.483	IDM SD430	
22EP	ENDPIPE			450	43.741			45.443	1.703		CAP & SEAL ENDPIPE FOR FUTURE CONNECTION
23	SIDE ENTRY PIT	600	900			300.000	42.858	44.258	1.4	IDM SD430	
24	GRATED PIT	600	900			300.000	43.269	44.852	1.583	IDM SD455	
25	GRATED PIT	600	900			300.000	43.444	45.088	1.644	IDM SD455	
EX.35EP	EXISTING ENDPIPE			300	42.111			43.451	1.34		CONNECT TO EXISTING ENDPIPE
27	JUNCTION PIT	600	900	225	42.439	300.000	42.398	43.654	1.256	IDM SD425	
28	JUNCTION PIT	600	900	FUT. 225	43.167	225.000	43.117	44.117	1	IDM SD425	PROVIDE 225Ø BLOCKOUT FOR FUTURE CONNECTION IN EAST WALL AT IL43.167
29	SIDE ENTRY PIT	600	900			300.000	42.602	44.002	1.4	IDM SD430	

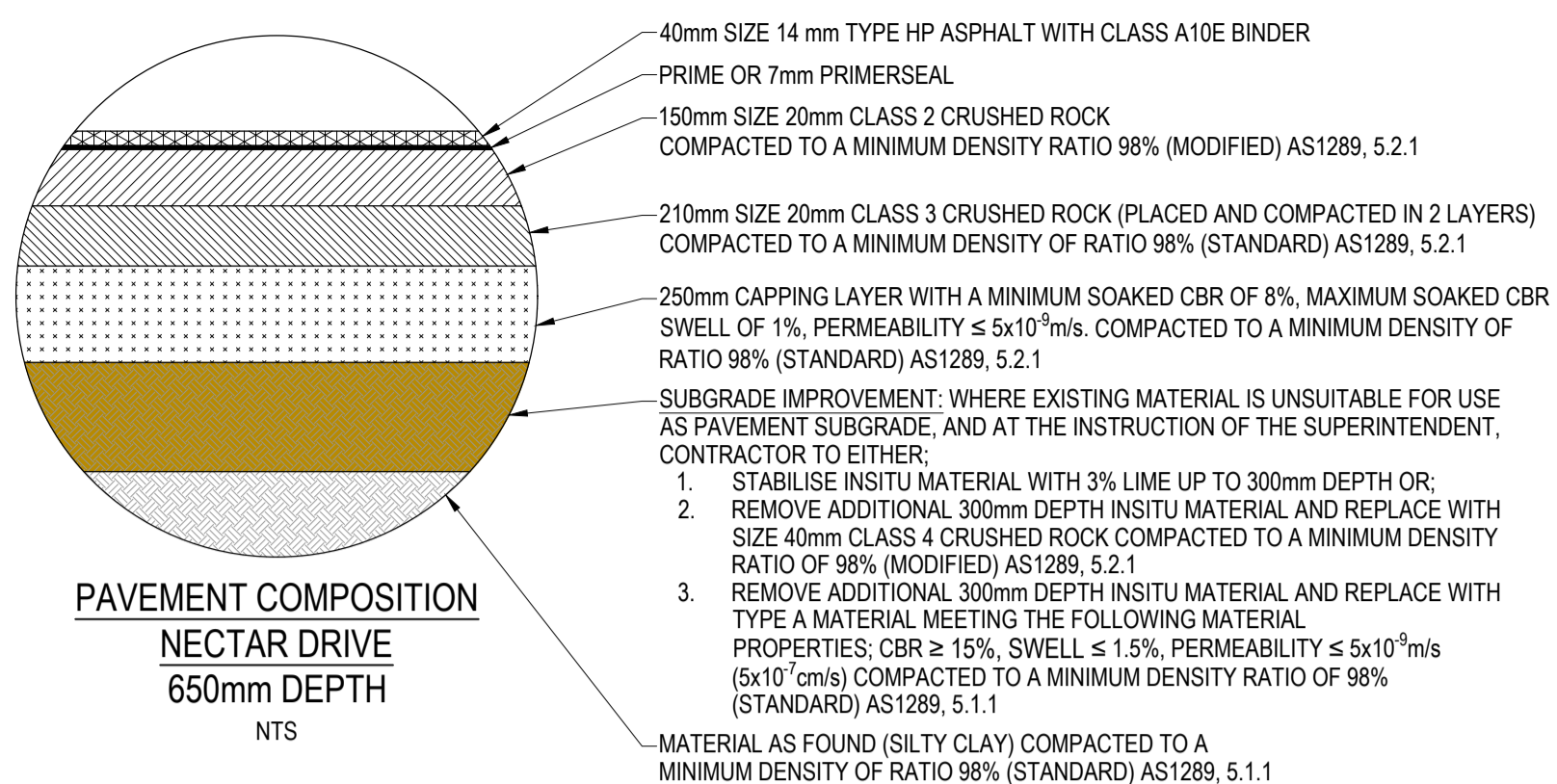
NOTE:
PIT COVERS ARE TO BE PROVIDED IN ACCORDANCE WITH CITY OF GREATER GEELONG DESIGN NOTE 13. ALL PITS WITHIN ROAD RESERVE ARE TO BE CLASS C FIBREGLASS REINFORCED PLASTIC (FRP) UNLESS AGREED OTHERWISE.

<table border="1"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>ISSUE DESCRIPTION</th> <th>DRAWN</th> <th>CHECKED</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>26/03/21</td> <td>W & RW OFFSETS UPDATED</td> <td>I.HOGAN</td> <td>M.TROUNCE</td> <td>T.PALIOS</td> </tr> <tr> <td>0</td> <td>12/01/21</td> <td>CONSTRUCTION ISSUE</td> <td>I.H.</td> <td>M.T.</td> <td>T.P.</td> </tr> <tr> <td>C</td> <td>16/12/20</td> <td>COUNCIL COMMENTS DATED 10/12/20</td> <td>I.H.</td> <td>M.T.</td> <td>T.P.</td> </tr> <tr> <td>B</td> <td>02/12/20</td> <td>COUNCIL COMMENTS DATED 30/11/20</td> <td>I.H.</td> <td>M.T.</td> <td>T.P.</td> </tr> <tr> <td>A</td> <td>17/11/20</td> <td>ISSUED FOR APPROVAL</td> <td>I.H.</td> <td>M.T.</td> <td>T.P.</td> </tr> </tbody> </table>			REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS	0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.	C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.	B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.	A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.	 <p>Communities Designed for Living</p>		 <p>Level 7, 176 Wellington Parade East Melbourne, VIC, Australia 3002</p>				ARMSTRONG - STAGE 47B DRAINAGE PIT SCHEDULE		ISSUED FOR CONSTRUCTION			SCALE AT A1 AS SHOWN	DRAWN I.HOGAN	DESIGNED I.HOGAN
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED																																															
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS																																															
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A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.																																															
												PROJECT ENGINEER M.TROUNCE	PROJECT MANAGER T.PALIOS	DATE FIRST ISSUE NOVEMBER 2020																																						
									PROJECT No. 180016.47B	DRAWING No. R603	REVISION 1																																									

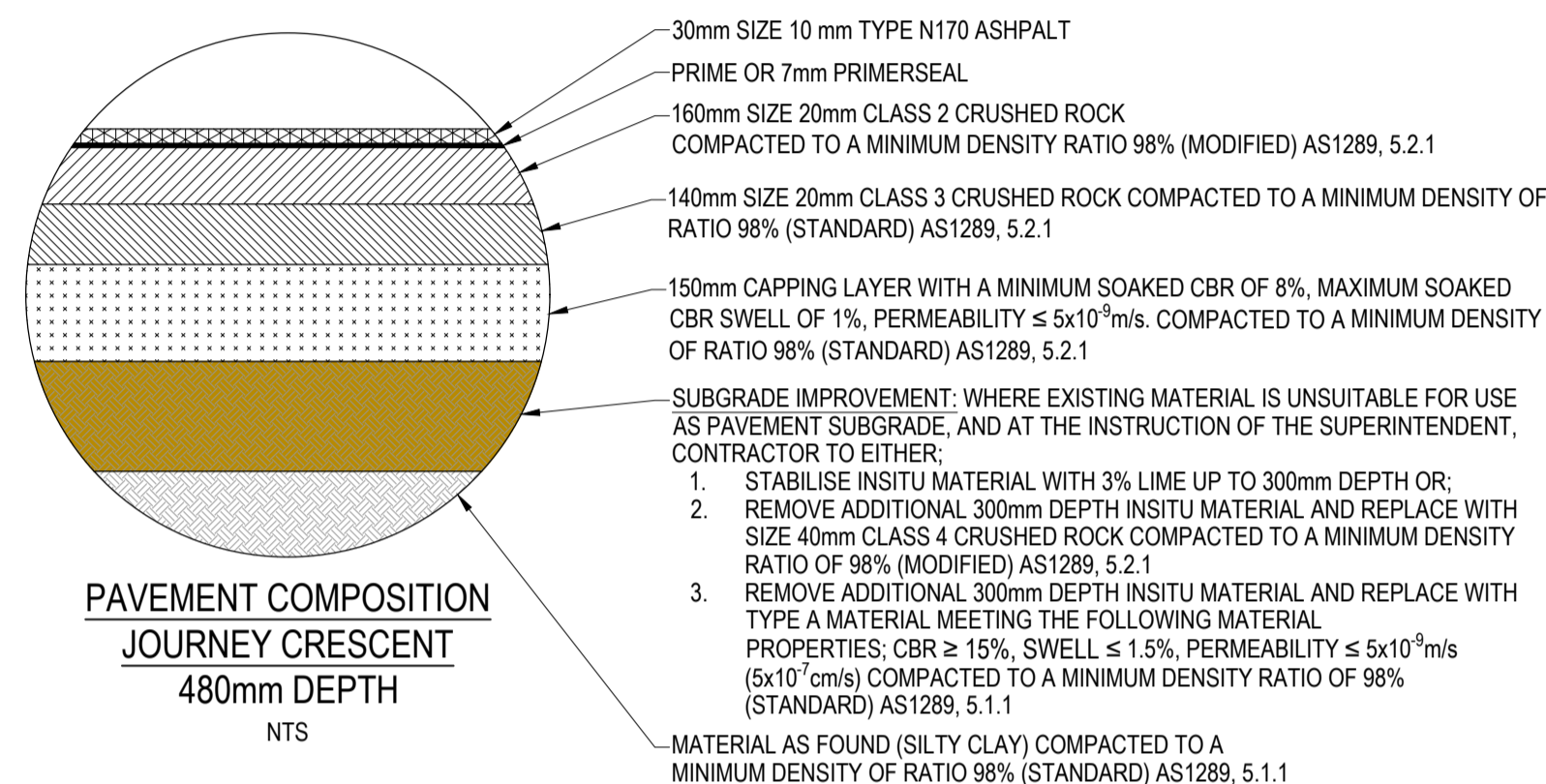
P:\2018\18016 - VILLAWOOD ARMSTRONG\18016_47B\18016_47B\18016_47B - R603 - DRAINAGE LONG SECTIONS.DWG



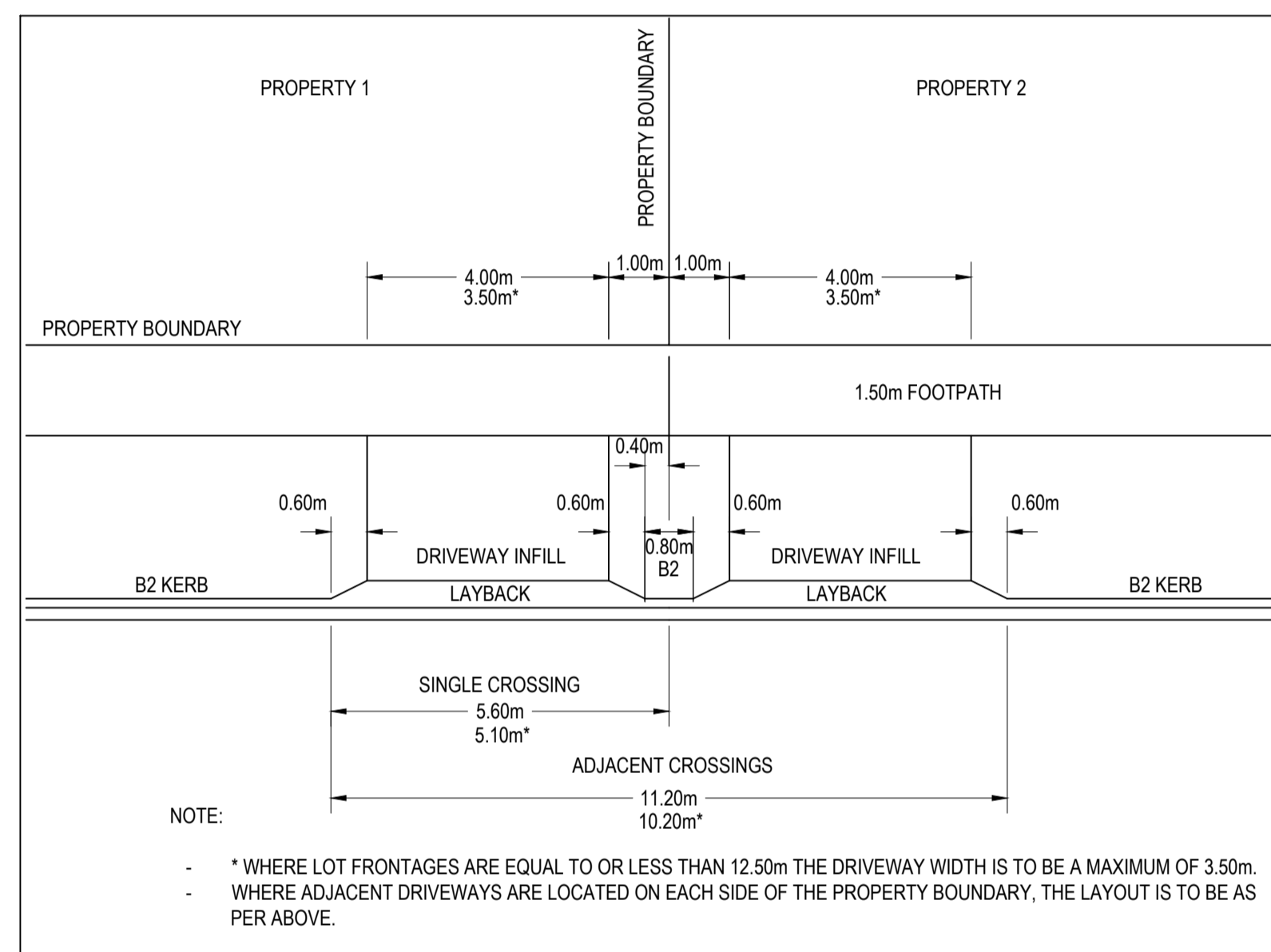
NOTE:
DETAIL PROVIDED IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY TONKIN & TAYLOR DATED APRIL 2014.



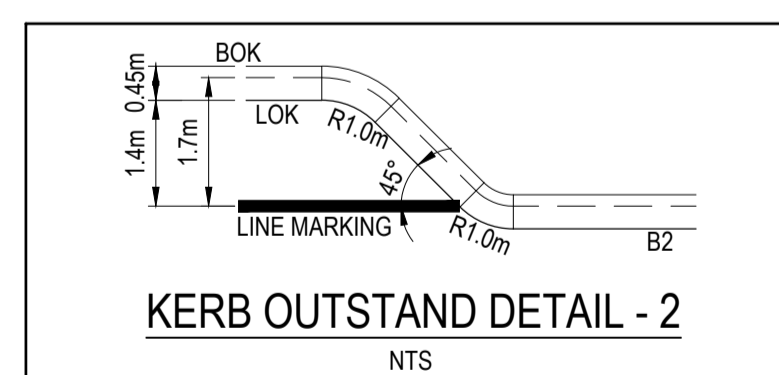
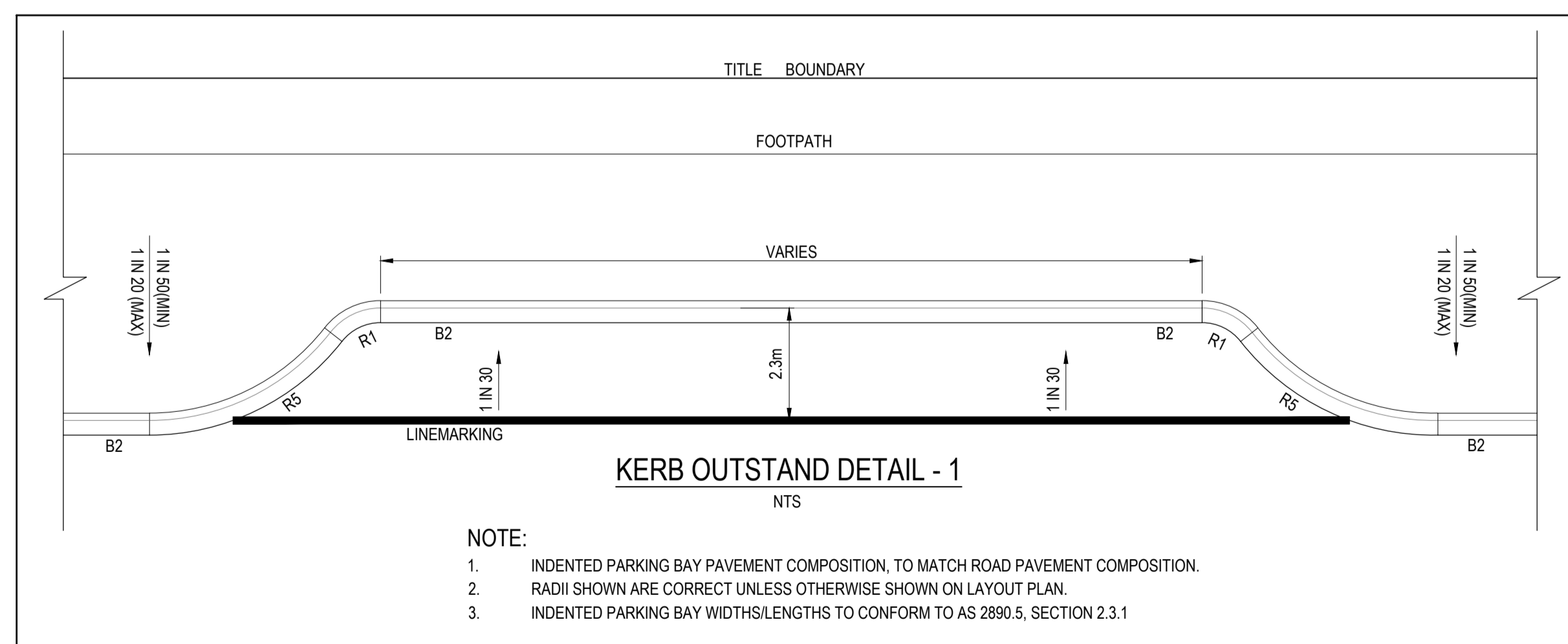
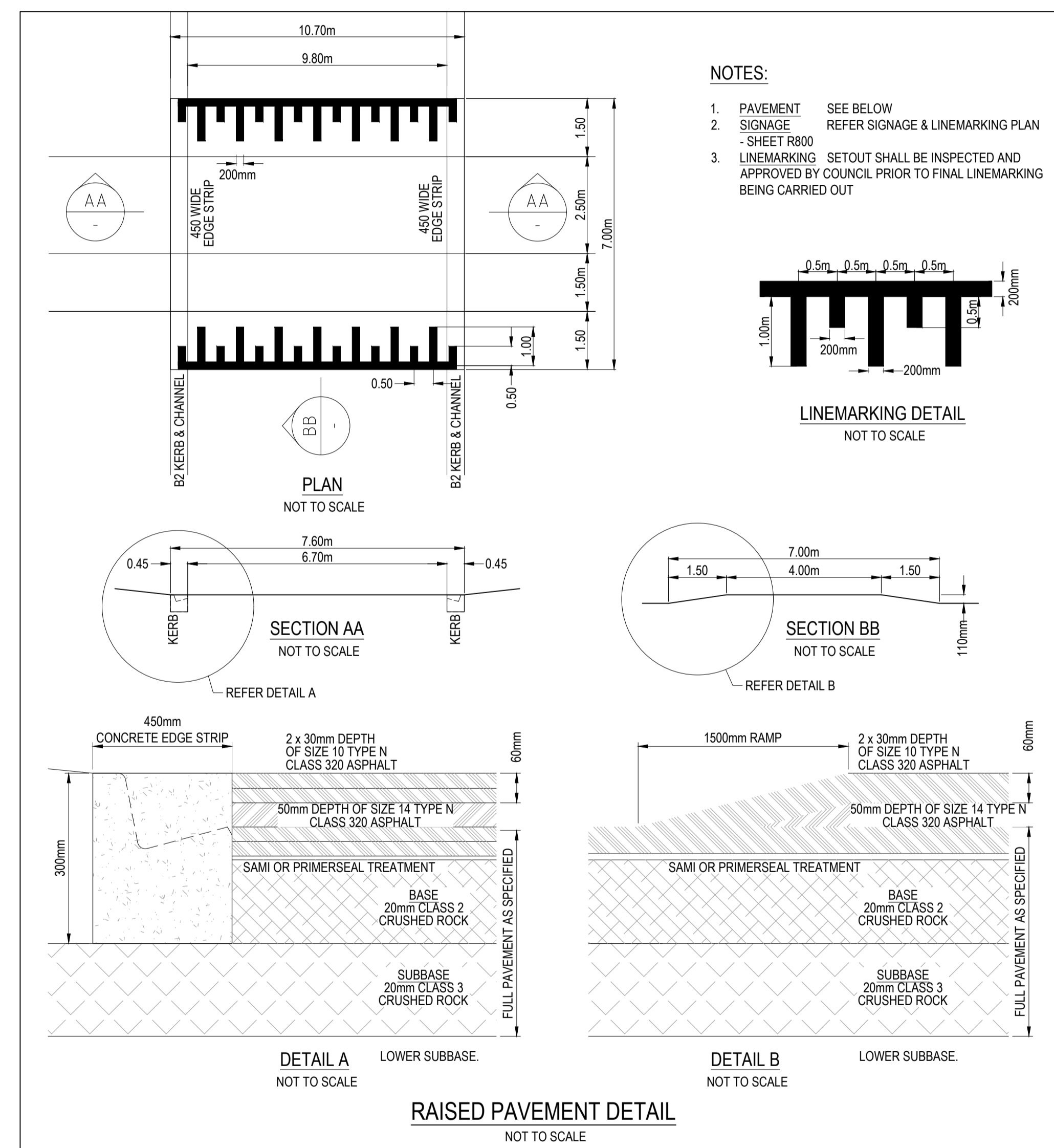
NOTE:
DETAIL PROVIDED IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY DOUGLAS PARTNERS DATED MARCH 2020.



NOTE:
DETAIL PROVIDED IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY DOUGLAS PARTNERS DATED MARCH 2020.



WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au



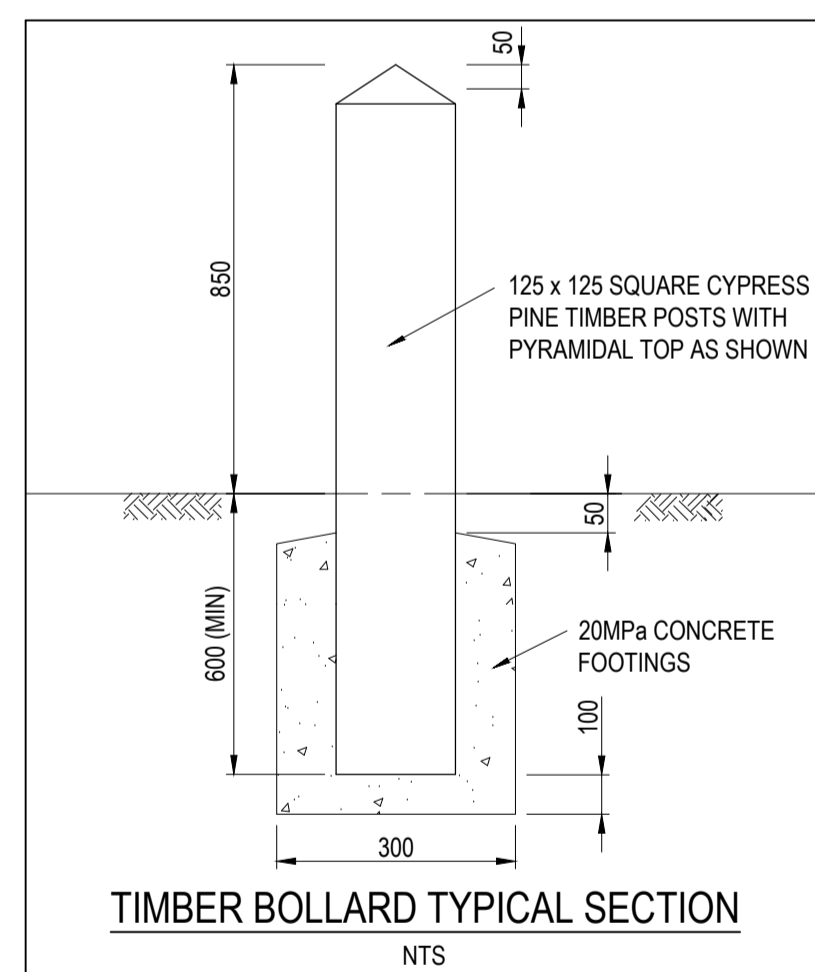
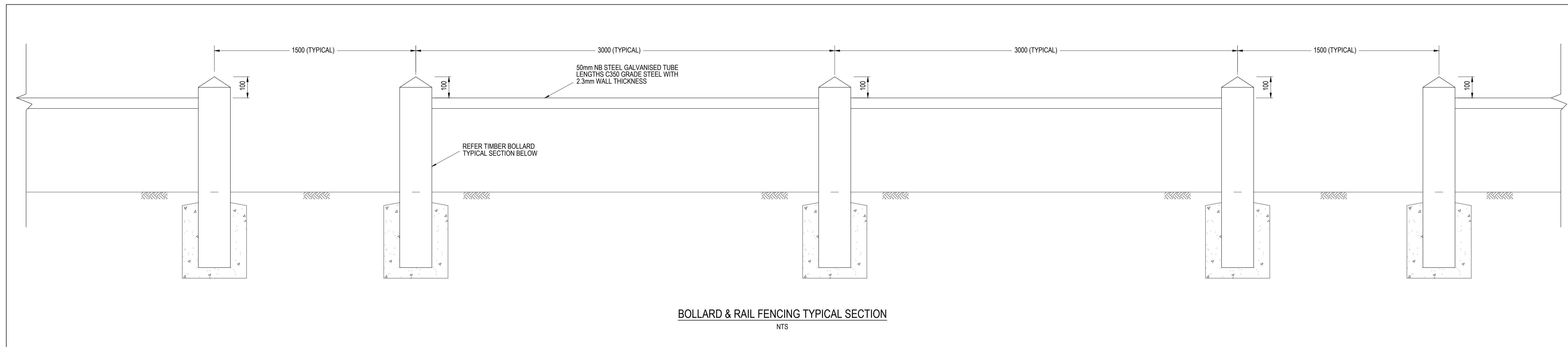
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
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B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



DRAWING TITLE
ARMSTRONG - STAGE 47B TYPICAL DETAILS - 1

STATUS
ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R700	1



WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
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DIAL 1100 BEFORE YOU DIG
www.1100.com.au

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

PROJECT

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

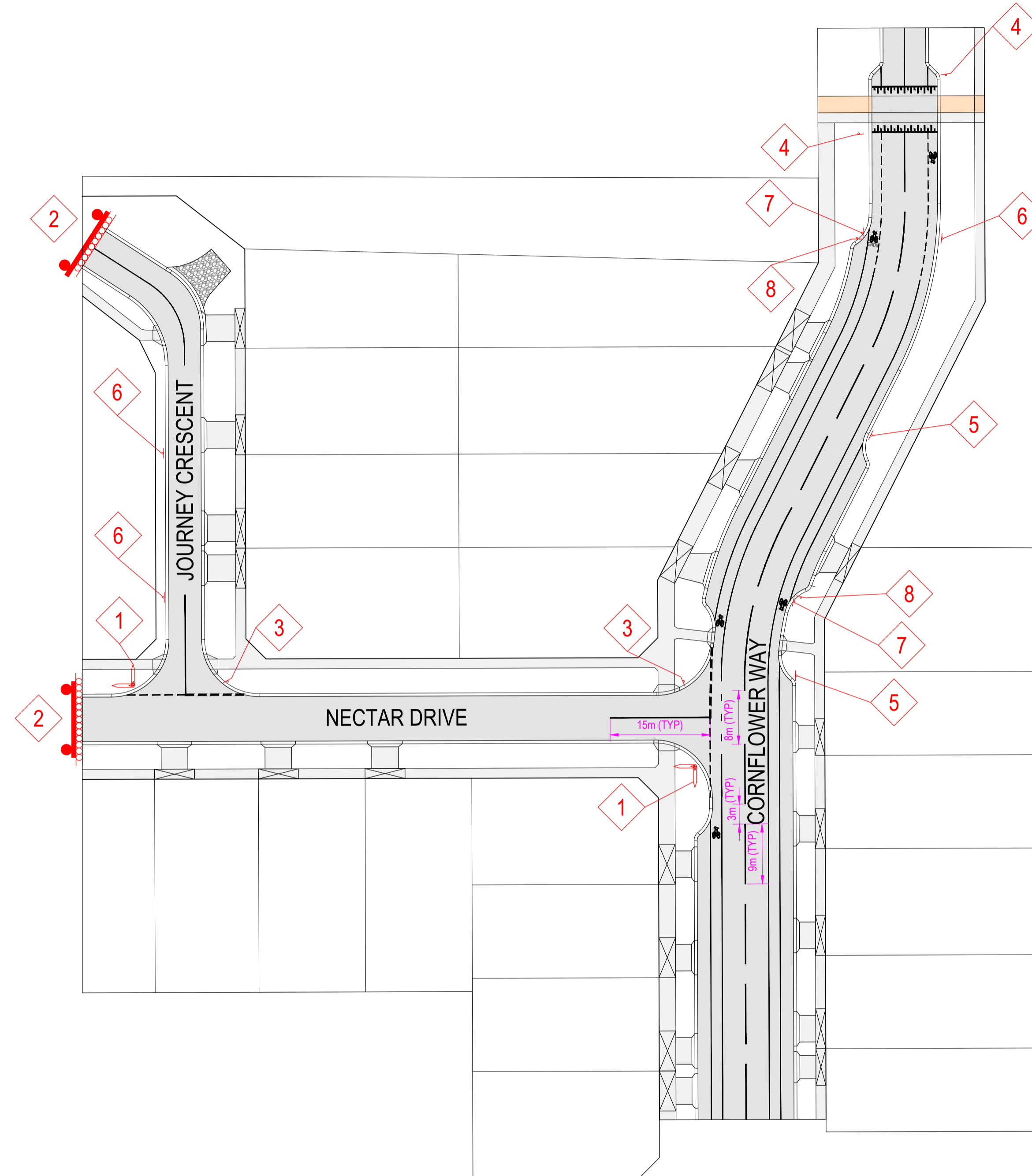
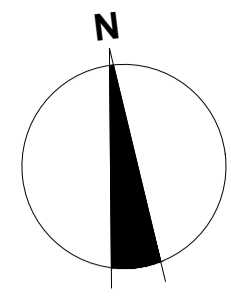
DRAWING TITLE

ARMSTRONG - STAGE 47B
TYPICAL DETAILS - 2

STATUS

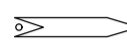
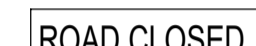



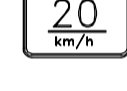
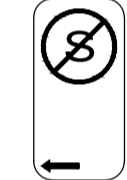
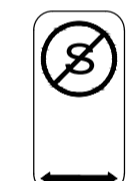
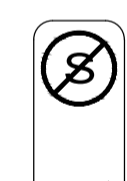

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R701	1



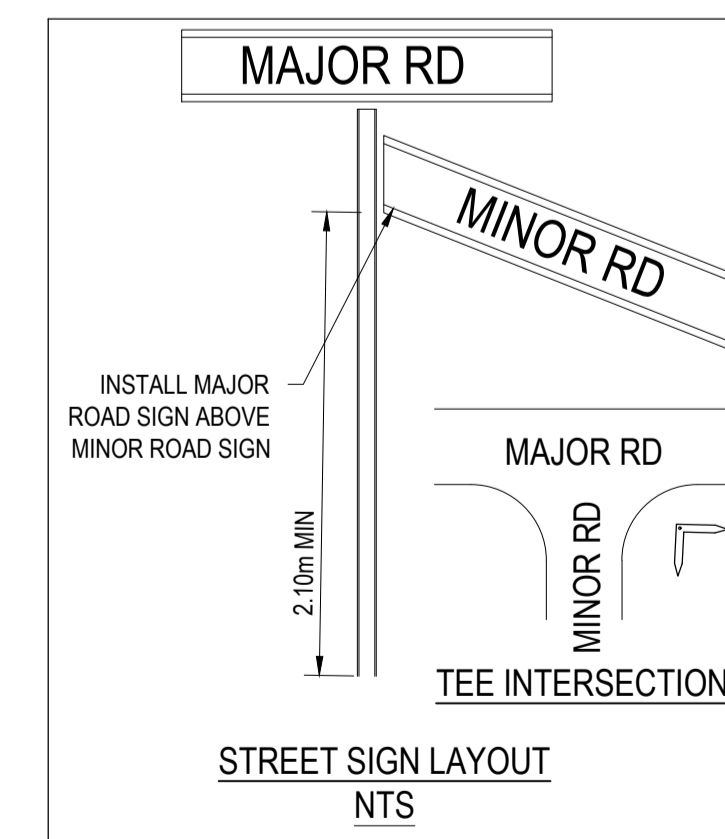
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

SIGN SCHEDULE

SIGN	REF	QUANTITY
	1	REFER BELOW
STREET SIGN		
	2	2 No.
		
	3	2 No.
R1-2		
	4	2 No.
W5-10A		
		
W8-2A		
	5	2 No.
R5-35L		
	6	3 No.
R5-35		
	7	2 No.
R5-35R		
	8	2 No.
D4-1-2a		

STREET SIGN SCHEDULE

CORNFLOWER WAY	1 No.
NECTAR DR	2 No.
JOURNEY CR	1 No.



LINEMARKING & SIGNAGE NOTES:

- ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742.1 AND AS 1742.2, UNLESS SPECIFICALLY SHOWN OTHERWISE.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
- LINEMARKING SET OUT SHALL BE INSPECTED AND APPROVED BY COUNCIL BEFORE FINAL LINEMARKING IS CARRIED OUT.

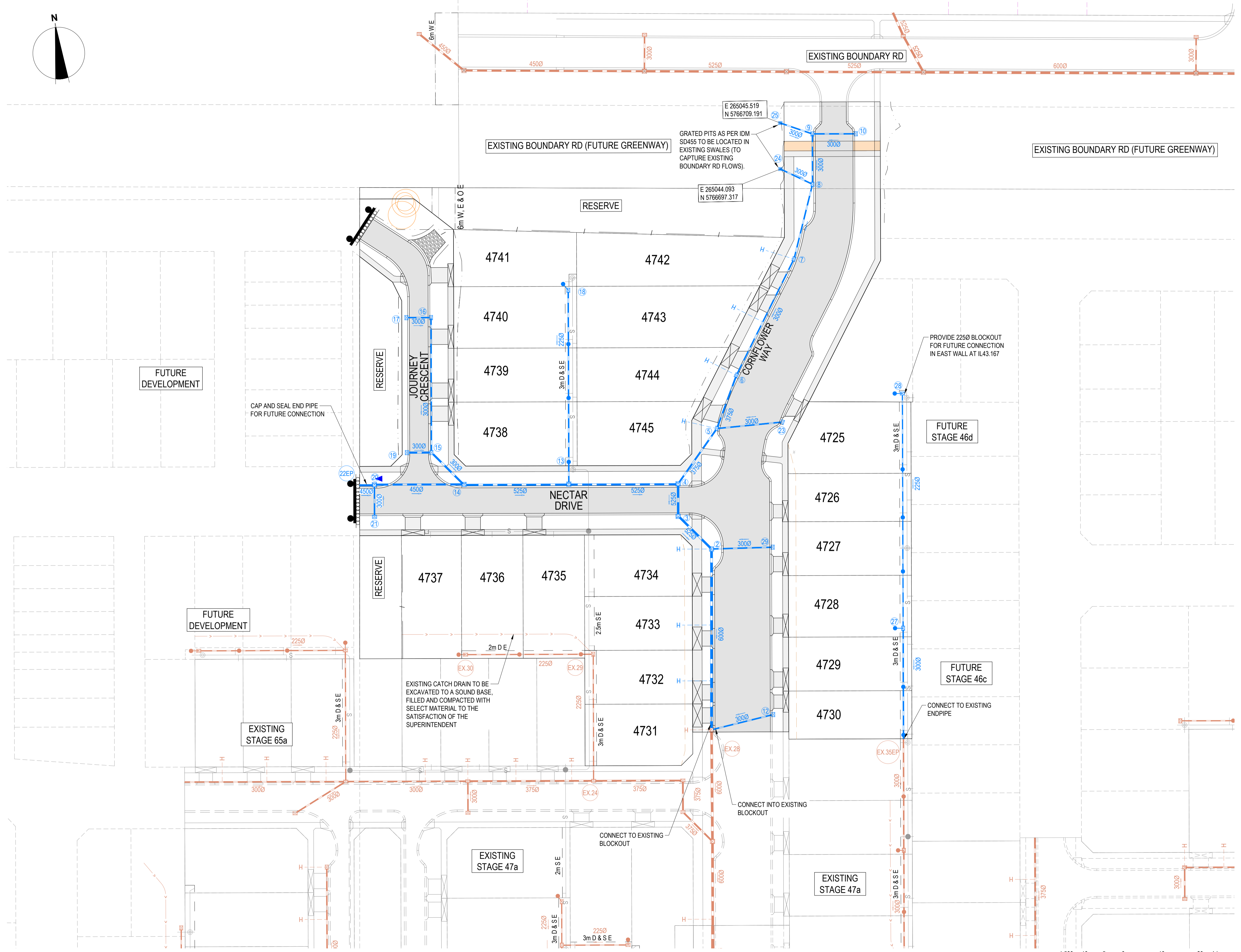
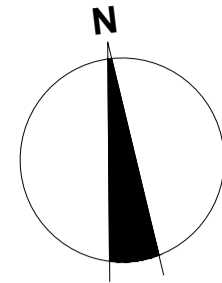
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
B	02/12/20	COUNCIL COMMENTS DATED 30/11/20	I.H.	M.T.	T.P.
A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.



**ARMSTRONG - STAGE 47B
SIGNAGE AND LINEMARKING PLAN**

**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R800	1



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	26/03/21	W & RW OFFSETS UPDATED	I.HOGAN	M.TROUNCE	T.PALIOS
0	12/01/21	CONSTRUCTION ISSUE	I.H.	M.T.	T.P.
C	16/12/20	COUNCIL COMMENTS DATED 10/12/20	I.H.	M.T.	T.P.
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A	17/11/20	ISSUED FOR APPROVAL	I.H.	M.T.	T.P.

CLIENT

Communities Designed for Living

PROJECT

Level 7, 176 Wellington Parade
East Melbourne, VIC, Australia 3002

DRAWING TITLE

ARMSTRONG - STAGE 47B
DRAINAGE LAYOUT PLAN

STATUS

ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	NOVEMBER 2020
PROJECT No.	DRAWING No.	REVISION
180016.47B	R900	1