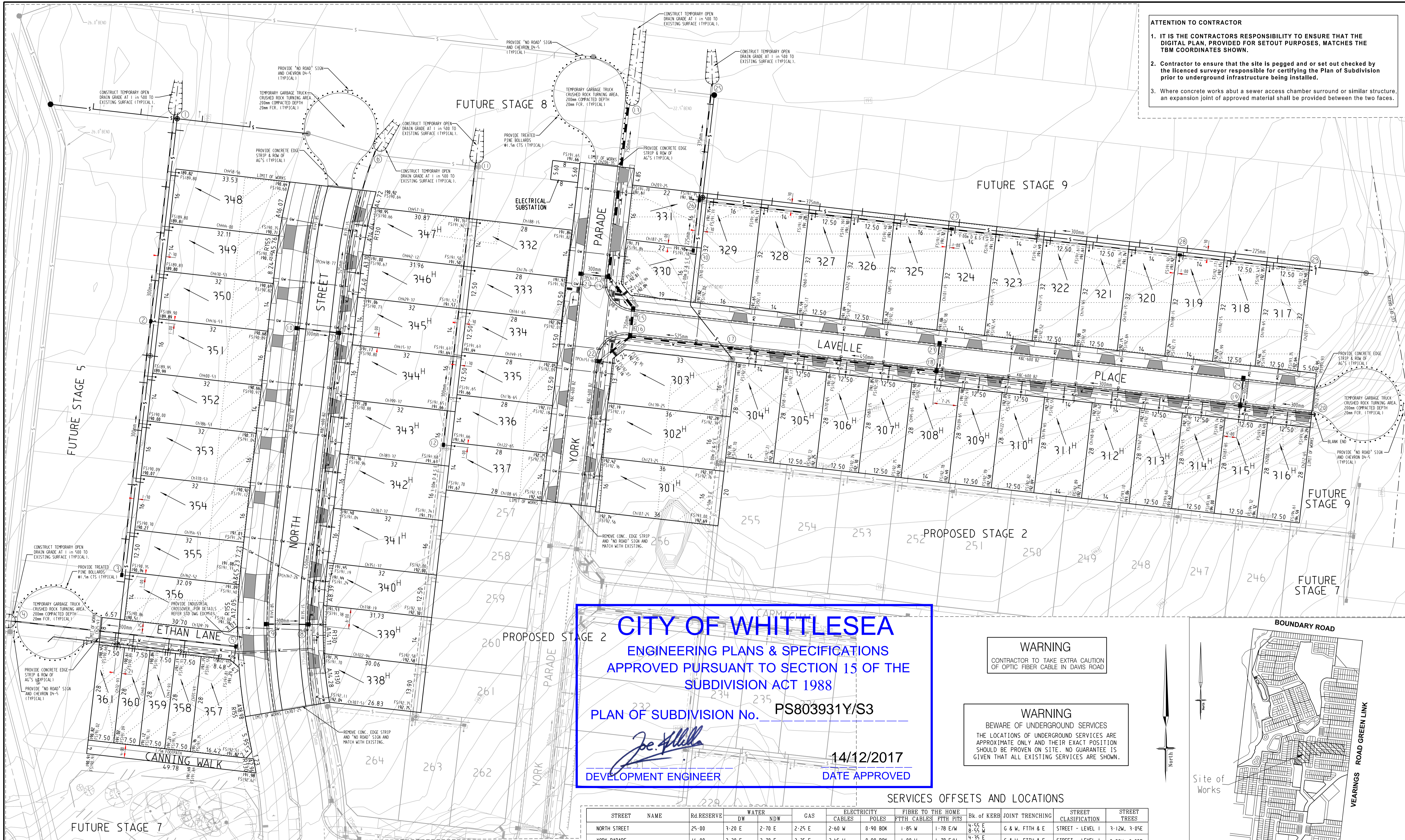


ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
- Contractor to ensure that the site is pegged and or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
- Where concrete works about a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

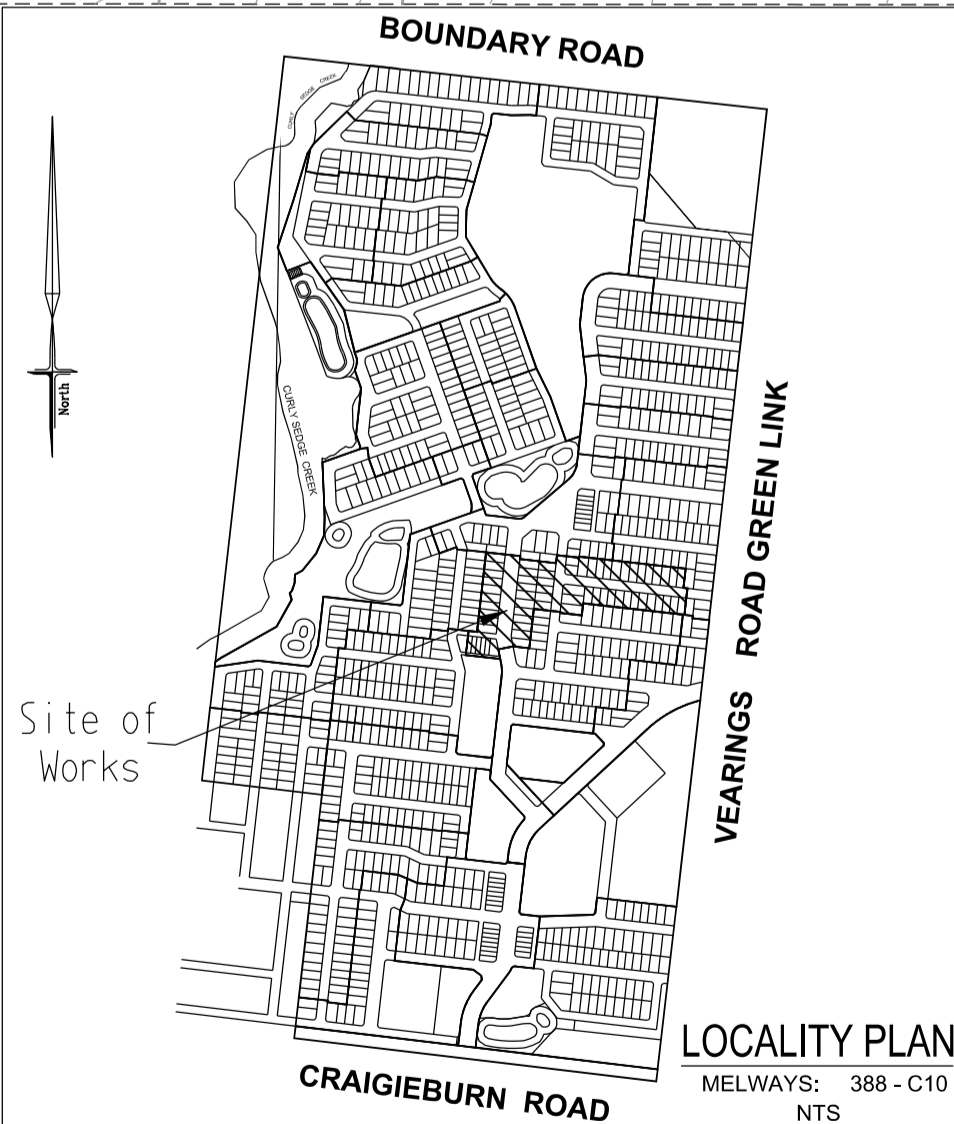


CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988
PLAN OF SUBDIVISION No. PS803931Y/S3

Joe Hill
DEVELOPMENT ENGINEER **14/12/2017**
DATE APPROVED

WARNING
 CONTRACTOR TO TAKE EXTRA CAUTION OF OPTIC FIBER CABLE IN DAVIS ROAD

WARNING
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

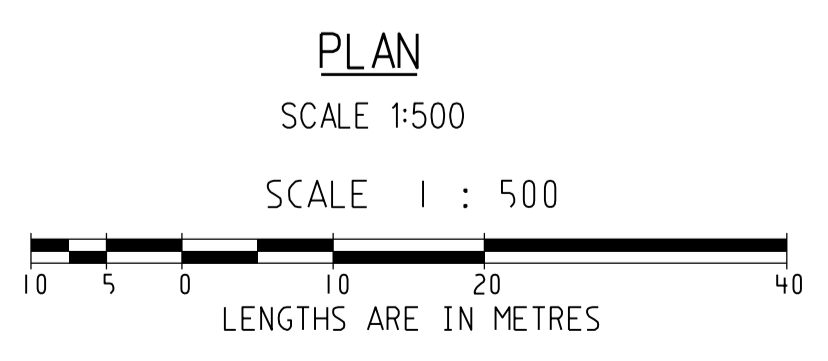


SERVICES OFFSETS AND LOCATIONS

STREET NAME	Rd. RESERVE	WATER		GAS	ELECTRICITY		FIBRE TO THE HOME		Bk. OF KERB	JOINT TRENCHING	STREET CLASSIFICATION	STREET TREES
		DW	NDW		CABLES	POLES	FPTH CABLES	FPTH PITS				
NORTH STREET	25.00	3-20 E	2-70 E	2-25 E	2-60 W	0-90 BOK	1-85 W	1-78 E/W	4-55 E 8-55 W	G & W, FTH & E	STREET - LEVEL 1	3-12W, 3-05E
YORK PARADE	16.00	3-20 E	2-70 E	2-25 E	2-45 W	0-90 BOK	1-00 W	1-78 E/W	4-35 E 4-05 W	G & W, FTH & E	STREET - LEVEL 1	2-80W, 2-95E
LAVELLE PLACE	16.00	3-20 S	2-70 S	2-25 S	2-60 N	0-90 BOK	1-85 N	1-78 N/S	4-35 S 4-05 N	G & W, FTH & E	STREET - LEVEL 1	2-80N, 2-95S
ETHAN LANE	8.00	2-60 S	2-10 S	1-65 S	2-60 N	-	1-85 N	1-78 N/S	-	G & W, FTH & E	STREET - LEVEL 1	-

SHEET INDEX

SHT No.	VBR	DESCRIPTION
1	P2	DETAIL PLAN & SERVICES SCHEDULE
2	P2	NOTES AND TYPICAL SECTIONS
3	P2	INTERSECTION DETAILS AND ETHAN LANE LONGITUDINAL AND CROSS SECTIONS
4	P2	NORTH STREET - LONGITUDINAL AND CROSS SECTIONS
5	P2	NORTH STREET - CROSS SECTIONS
6	P2	YORK PARADE - LONGITUDINAL AND CROSS SECTIONS
7	P2	LAVELLE PLACE - LONGITUDINAL AND CROSS SECTIONS
8	P2	LAVELLE PLACE - CROSS SECTIONS
9	P2	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE
10	P2	DRAINAGE LONGITUDINAL SECTIONS
11	P2	SIGNAGE AND LINEMARKING PLAN



SYMBOL LEGEND

Drains	Ex/Natural/FS Level	FS @ Building Line
Sewer <300	Top/Toe of Batter	Top Ret. Wall Level
Sewer >300	100yr Flood Level	100yr Flood Level
Water	Fill Prop/Ex	Cut Prop/Ex
House Drain	Retaining Wall	Conduits 50mm
Property Inlet	Conduits 100mm	Ex Gas/Elect/Tel
Street Sign		
PSM		

AMENDMENTS

VER	DATE	REMARKS

breese pitt dixon pty. ltd.
 land surveyors civil engineers

1/19 cato street hawthorn east, 3123
 telephone 8823 2300
 fax no. 8823 2310

MELWAY REF. 388-C-10

RATHDOWNE ESTATE
STAGE 3
DETAIL PLAN

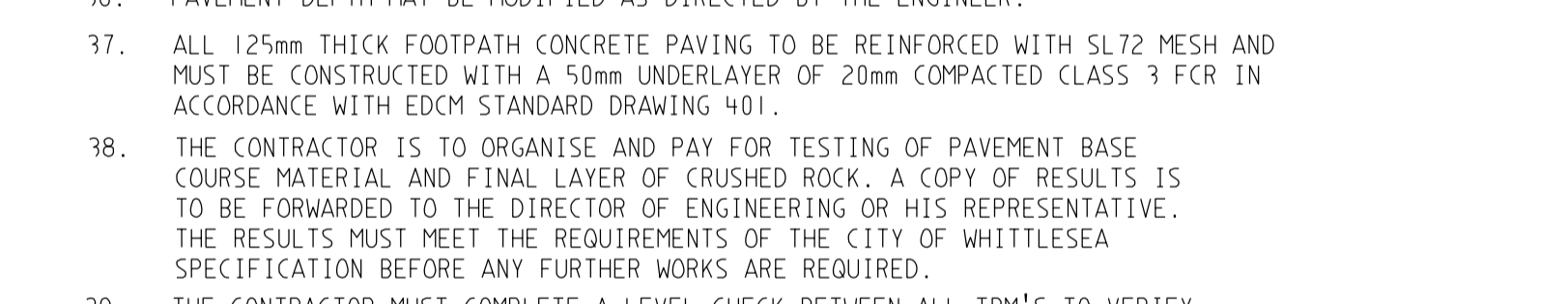
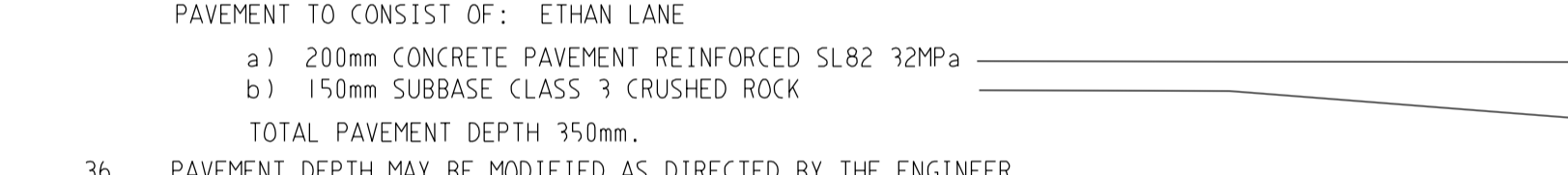
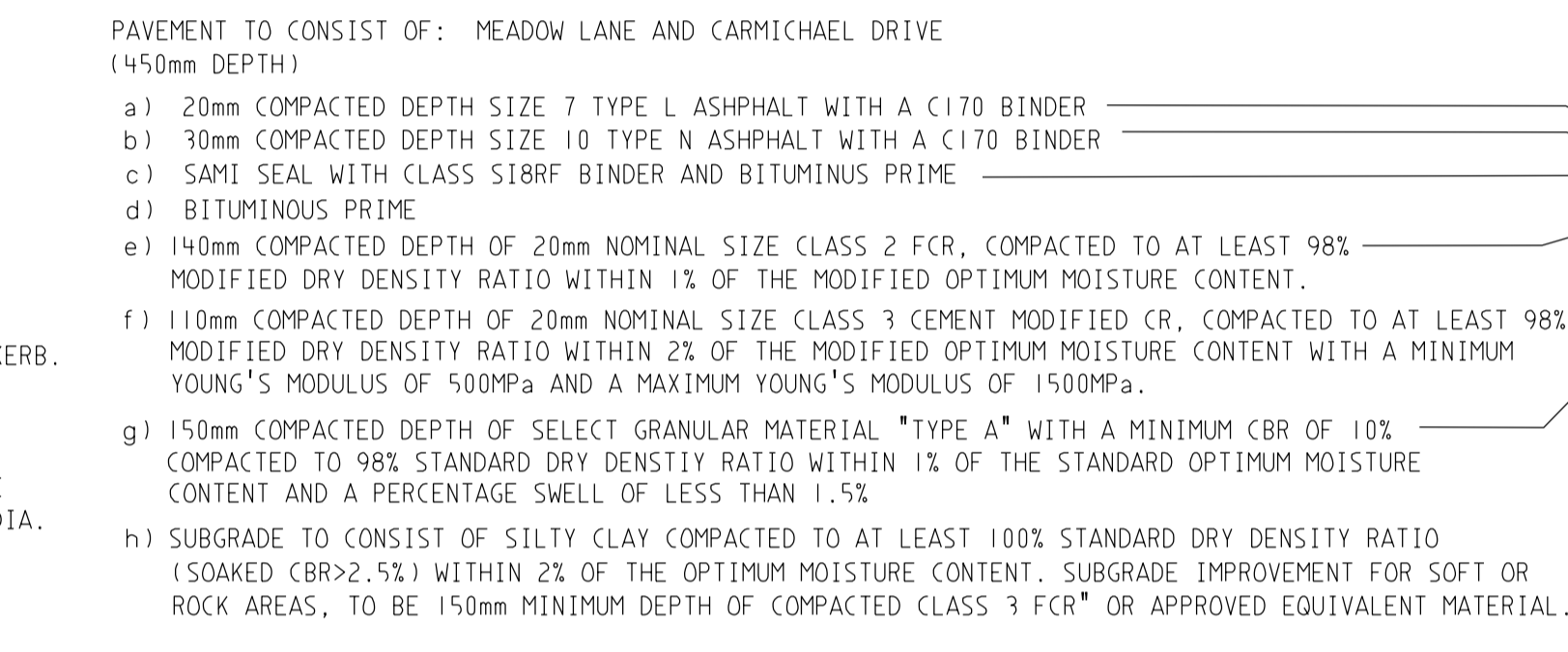
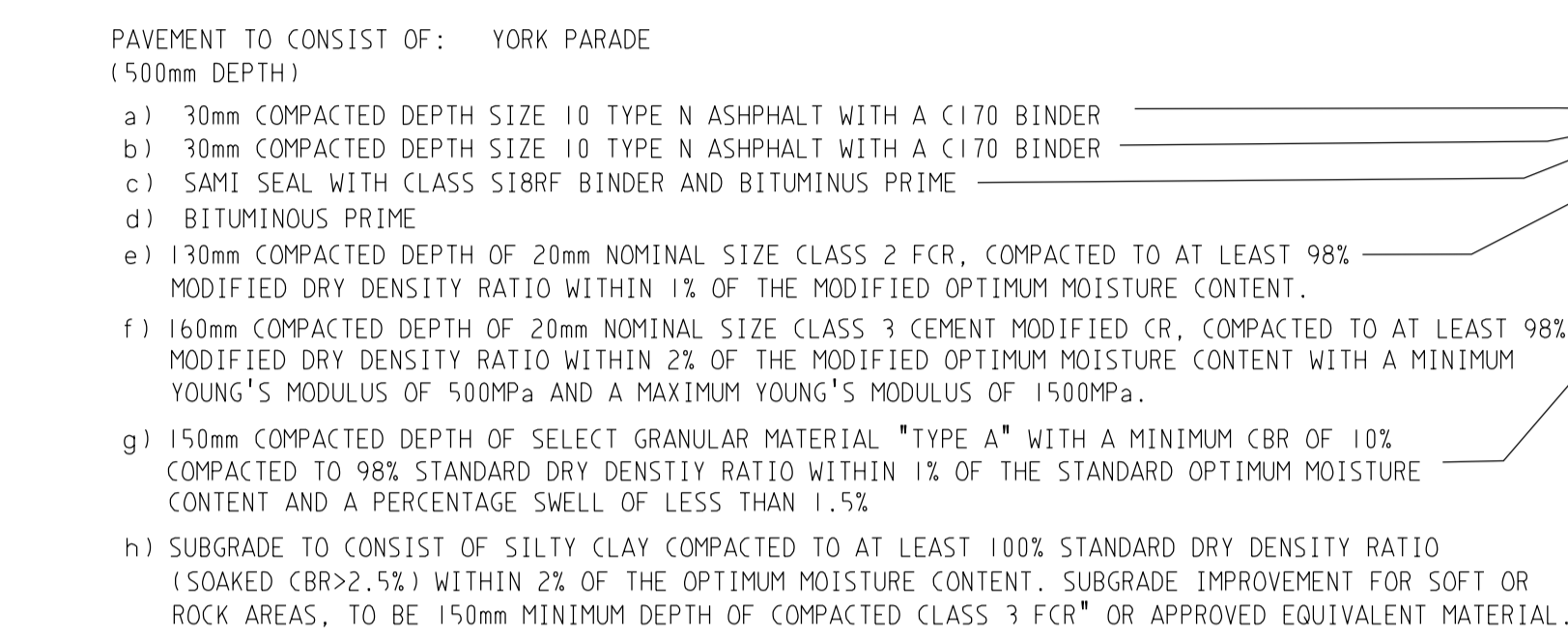
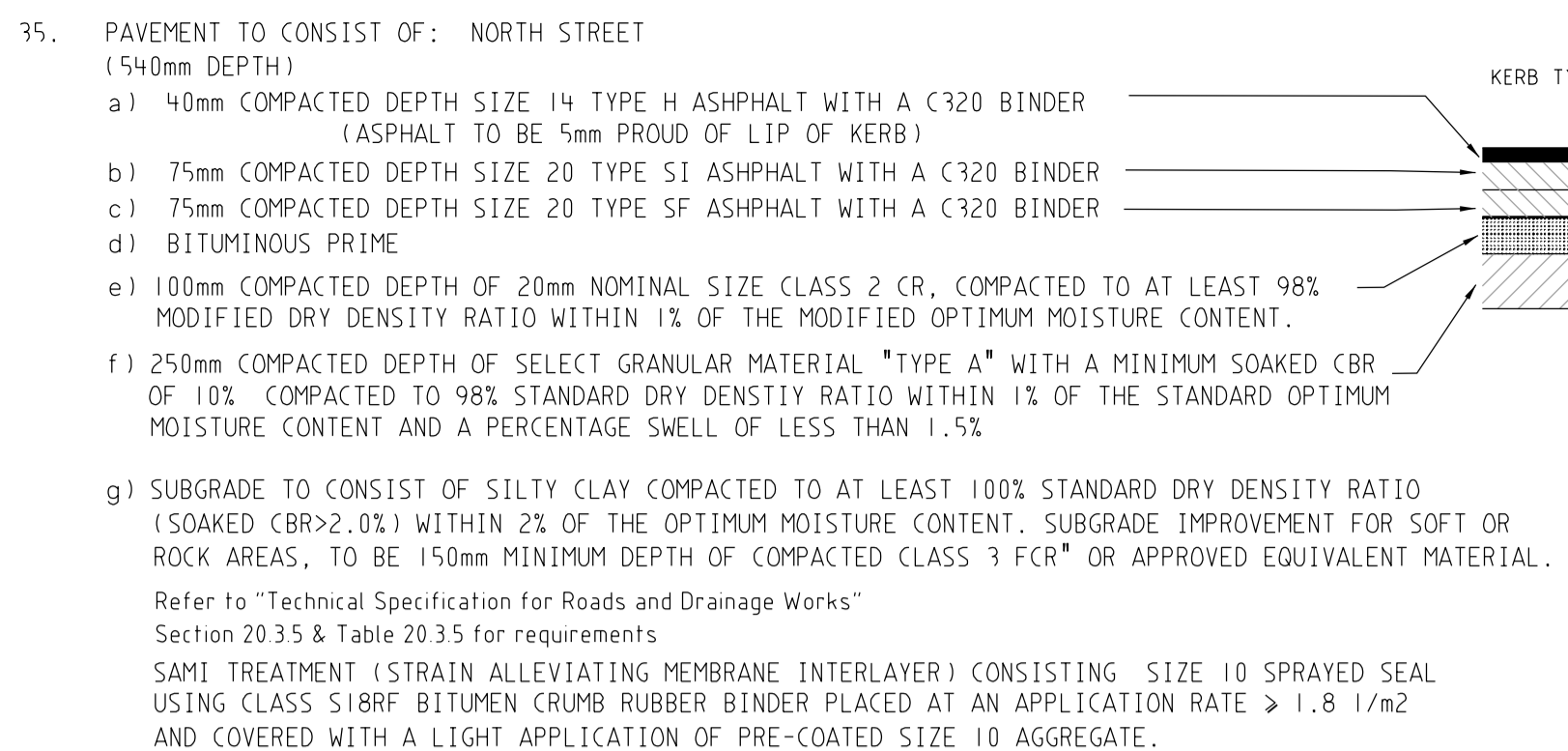
MUNICIPALITY
WHITTLESEA

REFERENCE
 9365 E/3

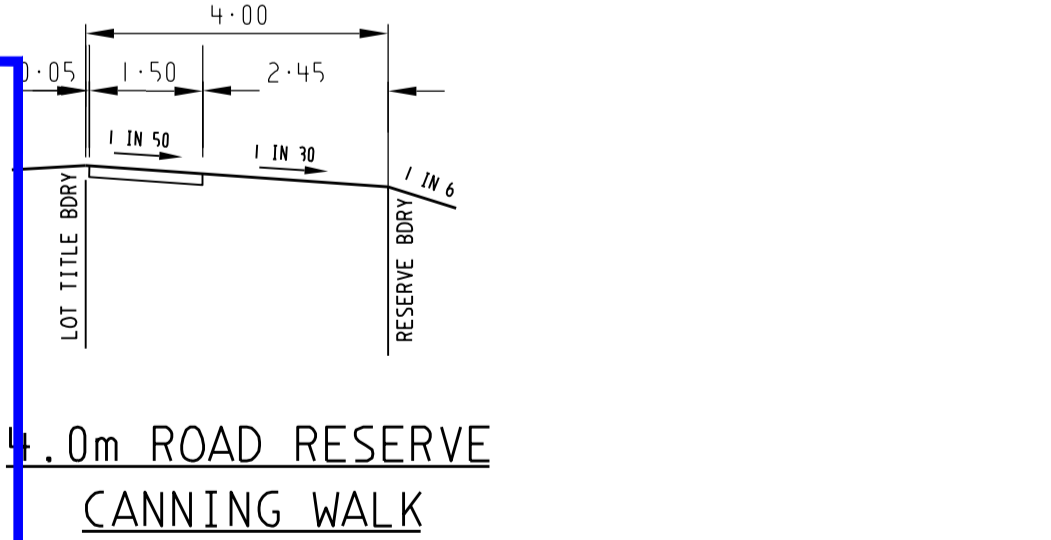
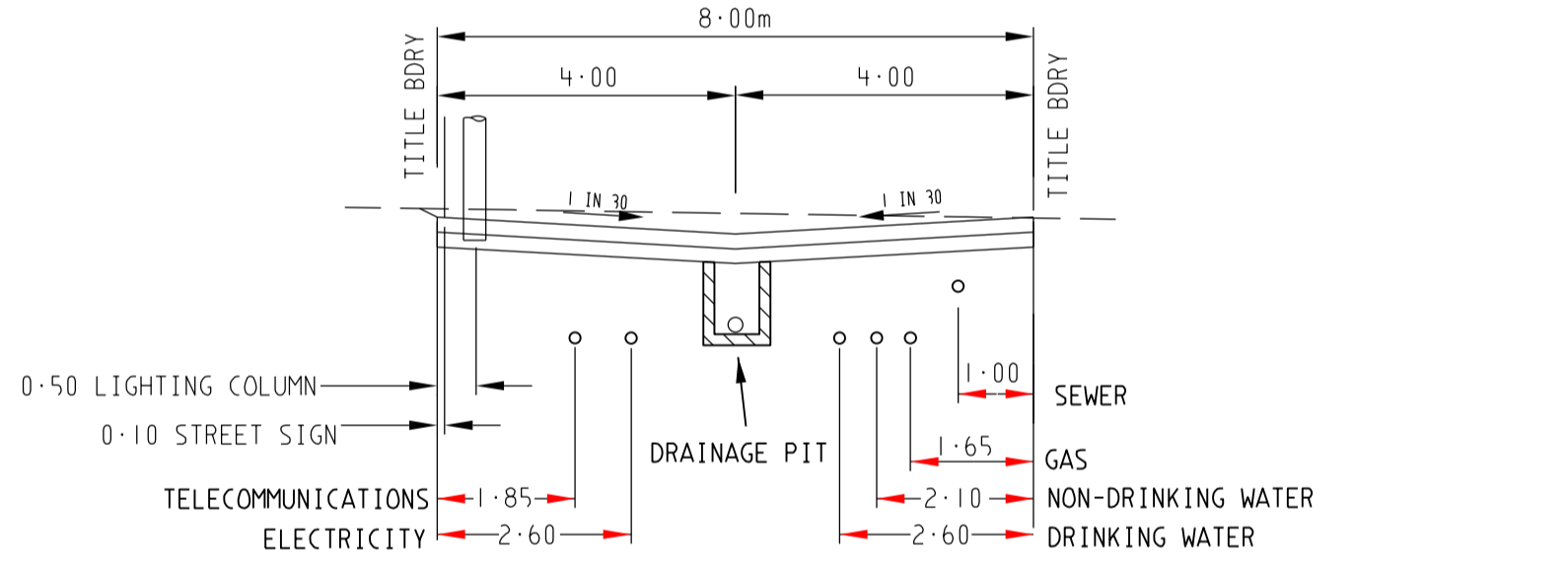
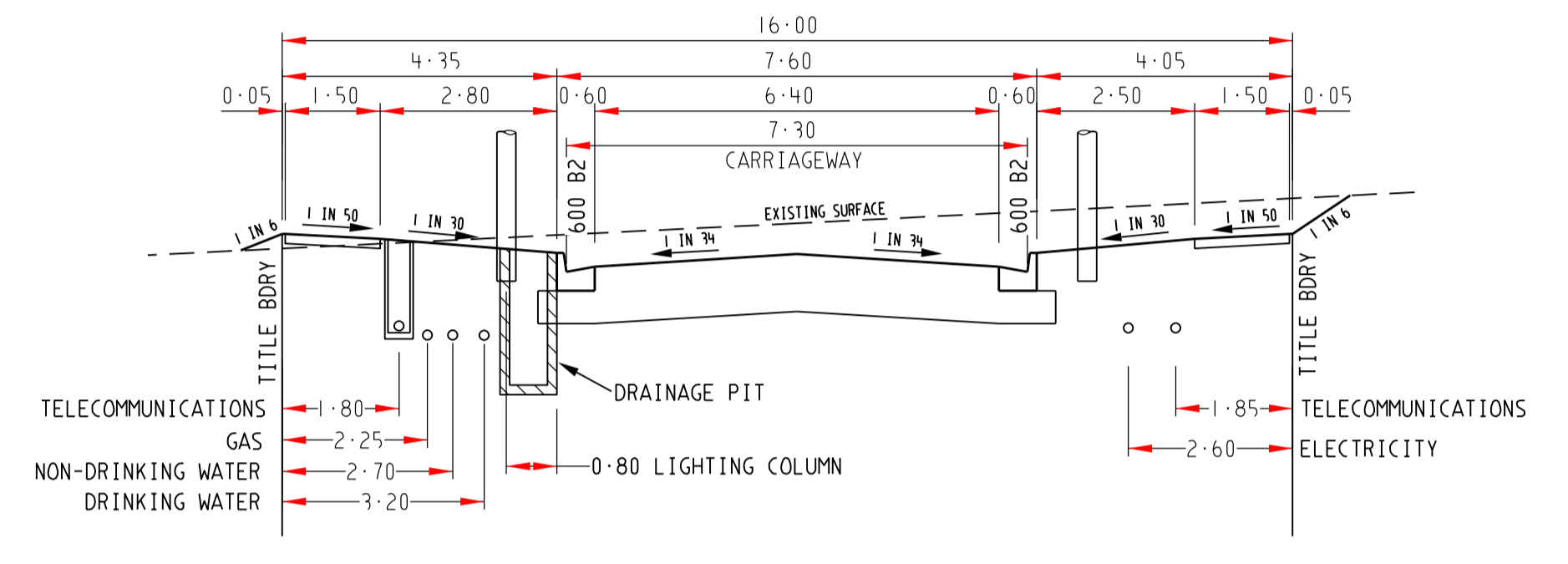
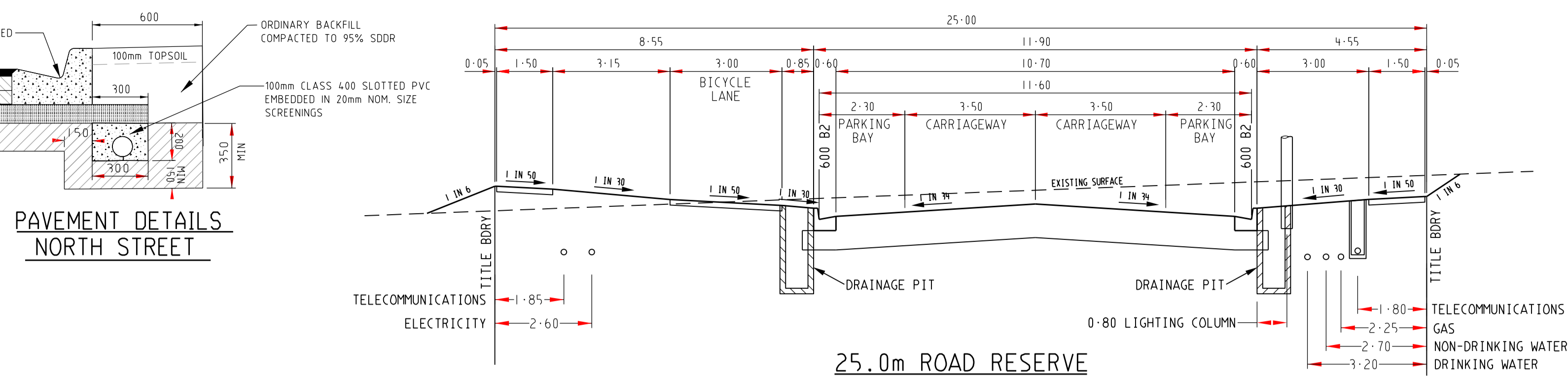
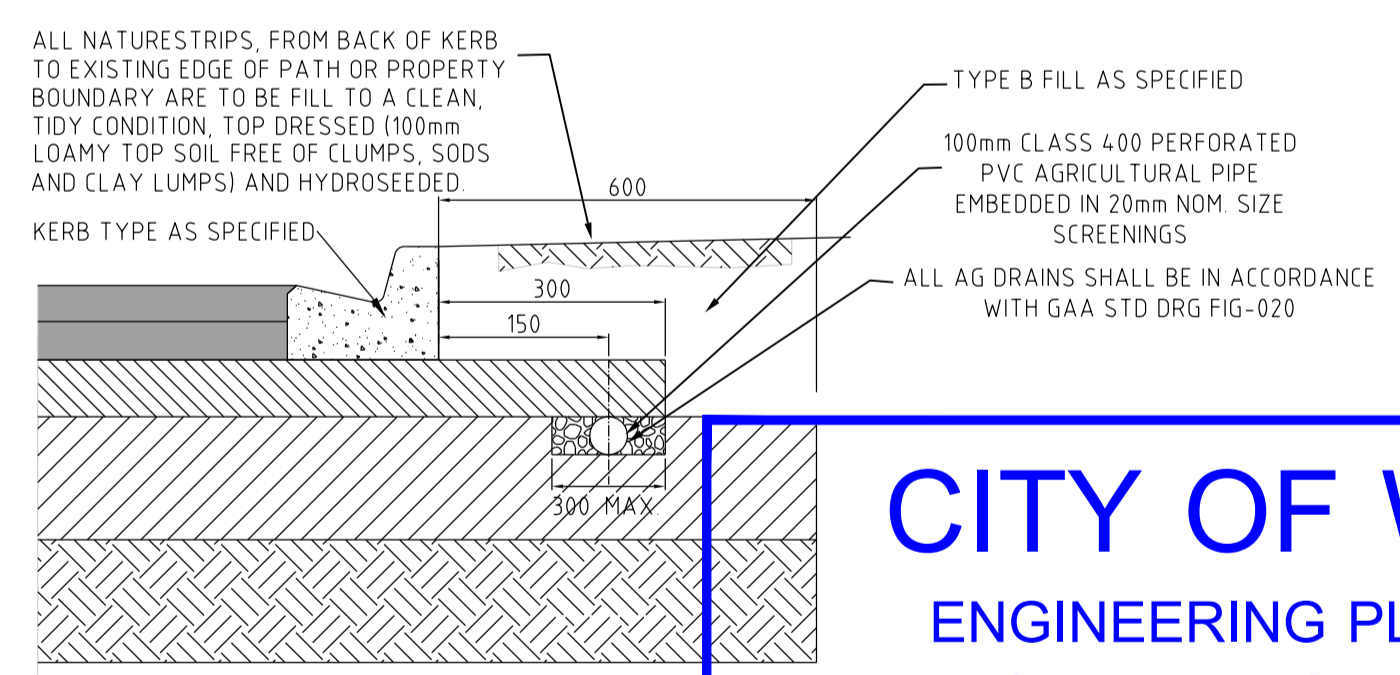
CHECKED **SCALE AS SHOWN** **DATUM AHD** **DATE OCT'17** **SHEET 1 OF 11**

NOTES

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PLANS AND CURRENT CITY OF WHITTLESEA SPECIFICATIONS AND STANDARD DRAWINGS APPROVED BY COUNCIL AND TO THE SATISFACTION OF THE ENGINEER. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
 - SOURCES OF QUARRY MATERIAL
 - N.A.T.A. APPROVED TEST RESULTS FOR THE F.C.R. THAT IS TO BE USED.
 - IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
- COUNCIL TO BE NOTIFIED 2 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE
- ALL LEVELS ARE TO BE AUSTRALIAN HEIGHT DATUM (AHD)
- DRAINAGE AND PITS TO BE SETOUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES.
- ALL PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED AND SHALL BE R.R.J UP TO AND INCLUDING 750mm DIAMETER. ALL DRAINS THAT CROSS UNDER ROAD PAVEMENTS ARE TO BE R.R.J CLASS 2 R.C.P.
- JOINTING FOR CURVED PIPE ALIGNMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS (R.R.J'S FOR MINOR DEFLECTIONS OR COMPLETE R.C. BANDAGES)
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN.
- LOTS DENOTED THUS 416H ARE TO BE PROVIDED WITH A 100mm HOUSE DRAIN PLACED 7.0m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN. HOUSE DRAINS TO BE CONNECTED TO STREET DRAINAGE WITH 21A & CAP. CLEAR OF ANY PAVING. IF CONNECTION IS WITHIN PAVING A PIT MUST BE USED.
- APPROVED GRANULAR BACKFILL TO BE PROVIDED WHERE PIPE TRENCHES ENCR OACH UNDER ROADWAY DUE TO DEEP EXCAVATIONS IN ROCK.
- SHALLOW CUT OFF DRAINS ARE TO BE PROVIDED ON SUBDIVISION BOUNDARY WHERE NECESSARY.
- WHERE CONCRETE PAVING CROSSES SERVICE TRENCHES, SEWERAGE AND DRAINAGE, TRENCHES SHALL BE BACKFILL WITH COMPACTED FINE CRUSH ROCK.
- ALL CROSSOVERS MUST BE 0.75m FROM THE DRAINAGE PITS AND PRAM CROSSINGS. IN ADDITION, THE PRAM CROSSING MUST BE 2m FROM THE DRAINAGE PITS.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- AGRICULTURAL PIPE DRAINS 100mm PVC CLASS 4 TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER (REFER TO COUNCIL STANDARD DRAWINGS). WHERE KERB AND CHANNEL IS LOCATED ON TITLE BOUNDARY AG'S ARE TO BE PLACED BENEATH KERB AND 750mm BELOW TOP OF KERB.
- ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 2 F.C.R. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S. 1289.5.2.1-2003. EXCEPT WHERE DRAINS UP TO AND INCLUDING 450mm DIA. PIPES ARE LOCATED BEHIND KERB, THESE TRENCHES ARE TO BE BACKFILLED WITH SCREENINGS IN LIEU OF AG'S.
- AGRICULTURAL DRAINS ARE TO BE 760mm BELOW TOP OF KERB.
- BATTERS SHALL BE 1 IN 6 FOR CUT & FILL UNLESS OTHERWISE SHOWN.
- ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER.
- LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF RUBBISH AND SPOIL FROM SITE.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO COMMENCEMENT OF WORKS.
- ALL MATERIAL SURROUNDING SERVICE AUTHORITY PITS LOCATED IN FOOTPATHS MUST BE ADEQUATELY COMPACTED IN 150mm LAYERS AND TESTED TO THE SATISFACTION OF THE CITY OF WHITTLESEA PRIOR TO THE CONSTRUCTION OF FOOTPATH BAYS ADJACENT TO THESE PITS.
- THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETE MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.
- ALL GAS AND WATER CONDUIT TYPES ARE PVC CLASS 12 WITH A 50mm DIAMETER FOR RESIDENTIAL LOTS.
- TELSTRA/NBN Co TO BE NOTIFIED 7 DAYS PRIOR TO CONCRETE BEING PLACED.
- CONDUITS ARE TO BE EXTENDED 450mm BEHIND FACE OF KERB AND TO BE REFERENCED ON FACE OF KERB.
- ALL STREET SIGNS TO BE CONSTRUCTED AND ERECTED TO CURRENT CITY OF WHITTLESEA STANDARDS. STREET NAME PLATES TO BE IN ACCORDANCE WITH STANDARD DRAWING SDB12, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.
- TRAFFIC CONTROL SIGNS, MARKINGS & DELINEATORS TO BE INSTALLED IN ACCORDANCE WITH AS1742.2. ALL LINE MARKING IS TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC & TRANSVERSE MARKINGS IN COLD APPLIED.
- ALL DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. REFER EDM STD. DWG 601 FOR DETAILS.
- ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 6.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL DRY LEVELS AS SHOWN ON PLANS. FILLING TO BE CLEAN CLAY COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1289.5.2.1-1993. TESTING TO COMPLY WITH AS3798-1996 APPENDIX B, LEVEL 1.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION No. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
- FILL REQUIRED UNDER ROADWAY KERB AND CHANNEL AND FOOTPATH TO BE APPROVED GRANULAR MATERIAL COMPACTED TO 95% AASHO IN 150mm LAYERS.



- PAVEMENT DEPTH MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.
- ALL 125mm THICK FOOTPATH CONCRETE PAVING TO BE REINFORCED WITH SL72 MESH AND MUST BE CONSTRUCTED WITH A 50mm UNDERLAYER OF 20mm COMPACTED CLASS 3 FCR IN ACCORDANCE WITH EDM STANDARD DRAWING 401.
- THE CONTRACTOR IS TO ORGANISE AND PAY FOR TESTING OF PAVEMENT BASE COURSE MATERIAL AND FINAL LAYER OF CRUSHED ROCK. A COPY OF RESULTS IS TO BE FORWARDED TO THE DIRECTOR OF ENGINEERING OR HIS REPRESENTATIVE. THE RESULTS MUST MEET THE REQUIREMENTS OF THE CITY OF WHITTLESEA SPECIFICATION BEFORE ANY FURTHER WORKS ARE REQUIRED.
- THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM'S AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTALEMENT AT THE CONTRACTORS EXPENSE.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MM SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
- ALL FOOTPATHS IN ROADS TO BE OFFSET 50mm FROM PROPERTY BOUNDARY. FOOTPATHS CONSTRUCTED ABOVE EXISTING LEVEL TO BE CONSTRUCTED ON APPROVED FILL (TO AS-3798) OF F.C.R. INTO NATURAL GROUND.
- REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS OF VEHICLE EXCLUSION FENCING AROUND PERIMETER OF WORKS.
- PRIOR TO COMMENCEMENT OF WORKS A RINGLOCK WIRE MESH FENCE, APPROX 1.8m HIGH, SHALL BE ERECTED AROUND TREES NOTED "TO BE RETAINED". CORNER POSTS TO BE TREATED PINE WITH TREATED PINE STAYS. INTERMEDIATE POSTS TO BE STAR PICKETS AT 3m INTERVALS. EVERY THIRD POST TO BE TREATED PINE. NO CONCRETE IS TO BE USED TO SECURE POSTS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY TREE UNTIL APPROVAL IS GIVEN BY THE ENGINEER.
- ALL FENCES ADJOINING ALL RESERVES (OTHER THAN ROAD RESERVES) ARE TO BE ERECTED BY THE DEVELOPER (OR OWNER) AT NO COST TO COUNCIL AND SHALL BE CONSTRUCTED PRIOR TO STATEMENT OF COMPLIANCE IN ACCORDANCE WITH CONDITION 43 OF THE PERMIT.
- EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.
- TACTILE GROUND SURFACE INDICATORS (TGS1) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH AS1428 AND SD320.
- THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE WHITTLESEA CITY COUNCIL SPECIFICATIONS.
- THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURE / FENCES AND OR ANY RETAINING WALLS 600mm IN HEIGHT.
- ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER / OR THEIR REPRESENTATIVE.
- AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER / OR THEIR REPRESENTATIVE.
- ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIRE-FIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A., M.F.E.S.B. & N.R.E.). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST.



CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. **PS803931Y/S3**

14/12/2017
DATE APPROVED

TYPICAL ROAD CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 coto street hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

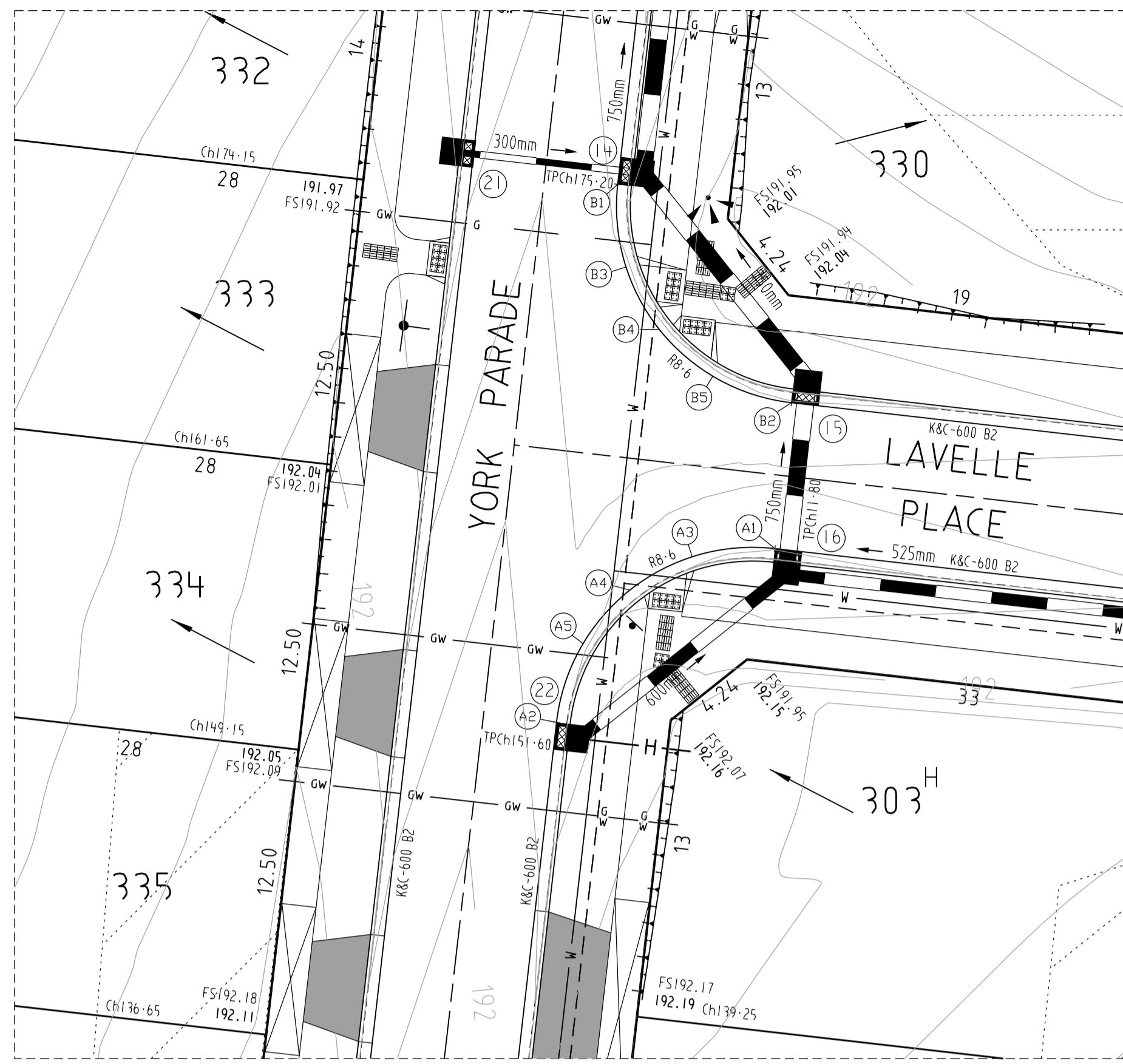
MELWAY REF.	388-C-10
SURVEY	BPD
DESIGN	SS
DRAWN	SS

**RATHDOWNE ESTATE
STAGE 3
NOTES AND LOCALITY PLAN**

MUNICIPALITY	WHITTLESEA
REFERENCE	9365 E/3

SHEET 2 OF 11

VER.	DATE	REMARKS	CHECKED	SCALE	AS SHOWN	DATUM	AHD	DATE	OCT'17



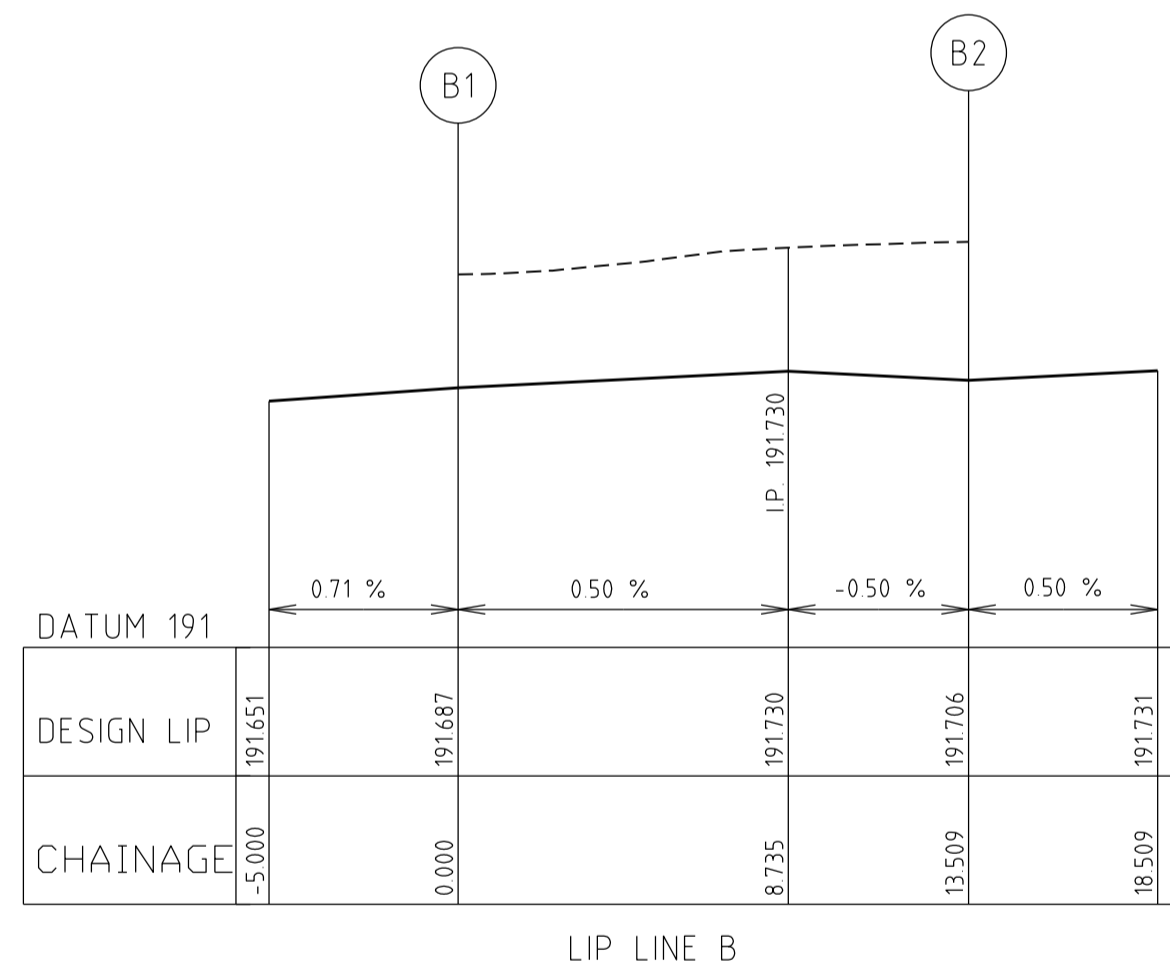
INTERSECTION YORK PARADE AND LAVELLE PLACE

Alignment B

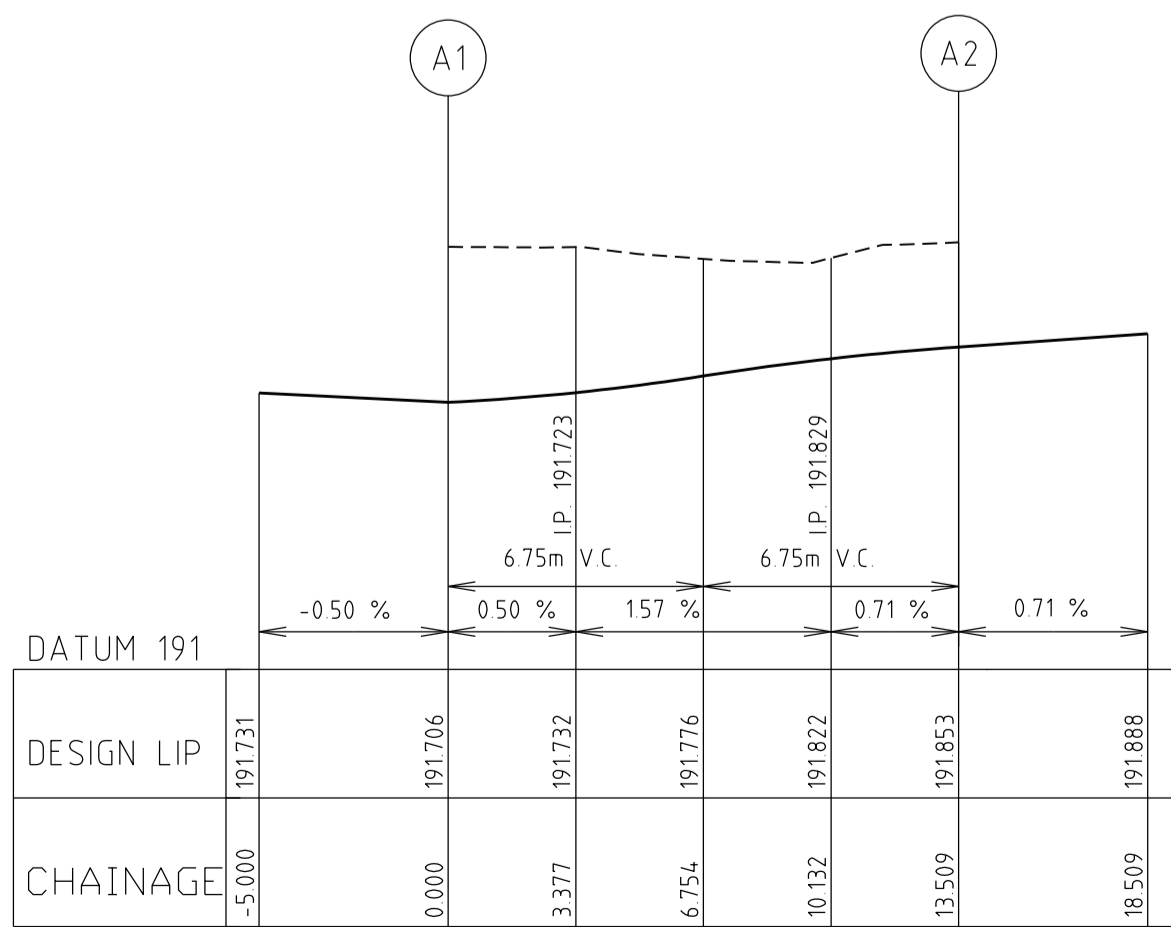
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1	322442.592	5836994.537	191.687
2	322450.104	5836985.019	191.706
3	322442.949	5836990.935	191.705
4	322444.407	5836988.209	191.720
5	322446.175	5836986.176	191.725

Curve data for Alignment B

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
B 1 2	-8.600	12.162	2.519	1.963	191.720



LIP LINE B



LIP LINE A

Alignment A

Point no	Easting	Northing	RL
A 1	322449.440	5836978.660	191.706
A 2	322459.922	5836971.088	191.853
A 3	322445.838	5836978.303	191.735
A 4	322443.113	5836976.845	191.776
A 5	322441.080	5836974.518	191.819

Curve data for Alignment A

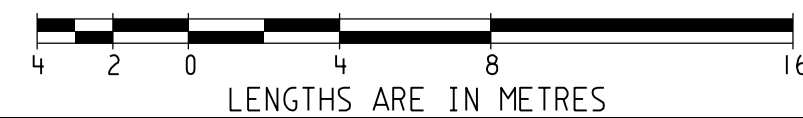
Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
A 1 2	-8.600	12.162	2.519	1.963	191.776

LIP OF KERB PROFILES

SCALE: HORIZONTAL 1:200
VERTICAL 1:20

INTERSECTION DETAILS

SCALE 1:200
SCALE 1:200



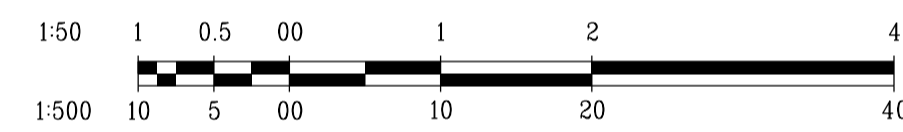
TRUE LEFT & RIGHT ARE IN THE DIRECTION OF THE INCREASING CHAINAGE

VC LENGTH
DESIGN GRADELINE
DATUM 186

Station	ES LEFT TITLE BDY	FS LEFT TITLE BDY	LEFT LIP OF KERB	DESIGN CL	RIGHT LIP OF KERB	FS RIGHT TITLE BDY	ES RIGHT TITLE BDY	CHAINAGE CENTRE LINE
0+00	190.00			189.78			190.07	0.00
17.93	190.44	190.31	190.44	190.31	190.44	190.44	190.31	17.93
20.00	190.50	190.37	190.50	190.37	190.50	190.50	190.37	20.00
25.43	190.45	190.66	190.66	190.53	190.66	190.66	190.45	25.43
32.93	190.61	190.89	190.89	190.75	190.89	190.89	190.61	32.93
40.00	190.83	191.09	191.09	190.96	191.09	191.09	190.83	40.00
40.43	190.84	191.11	191.11	190.97	191.11	191.11	190.84	40.43
47.93	191.13	191.33	191.33	191.19	191.33	191.33	191.13	47.93
55.43	191.15	191.55	191.55	191.42	191.55	191.55	191.15	55.43
60.00	191.15	191.68	191.68	191.55	191.68	191.68	191.15	60.00
62.00	191.18	191.74	191.74	191.61	191.74	191.74	191.18	62.00
65.75	191.22			191.72			191.22	65.75

LONGITUDINAL SECTION

SCALE HORIZONTAL 1:500
VERTICAL 1:50



CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
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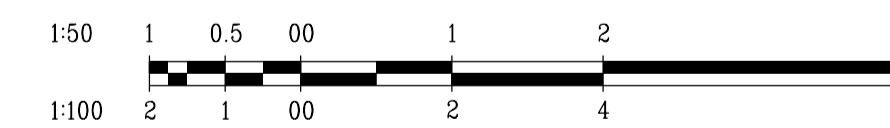
PLAN OF SUBDIVISION No. PS803931Y/S3

Joe. H. H. H.
DEVELOPMENT ENGINEER

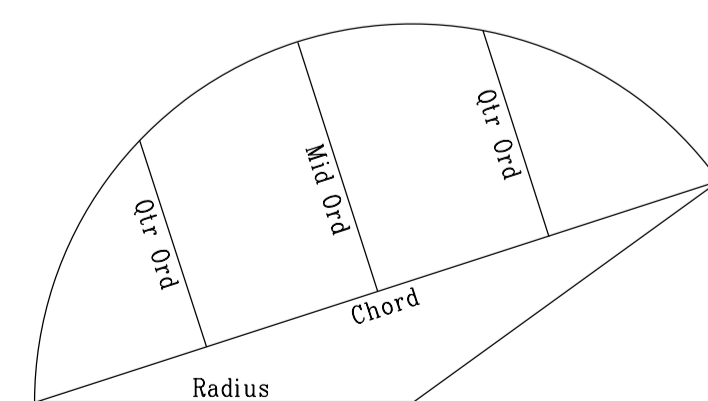
14/12/2017
DATE APPROVED

CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

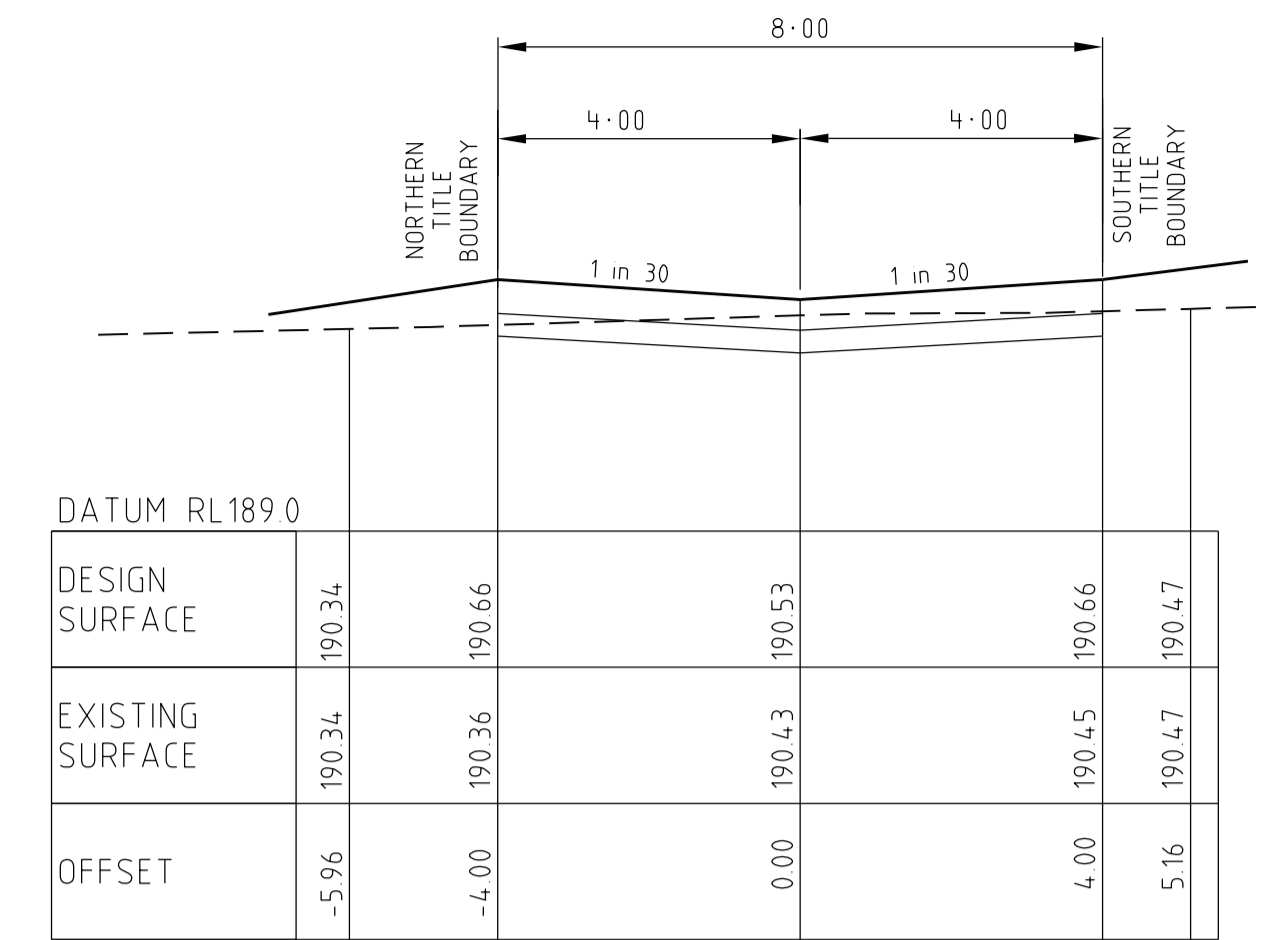


CRUSHED ROCK BACKFILL

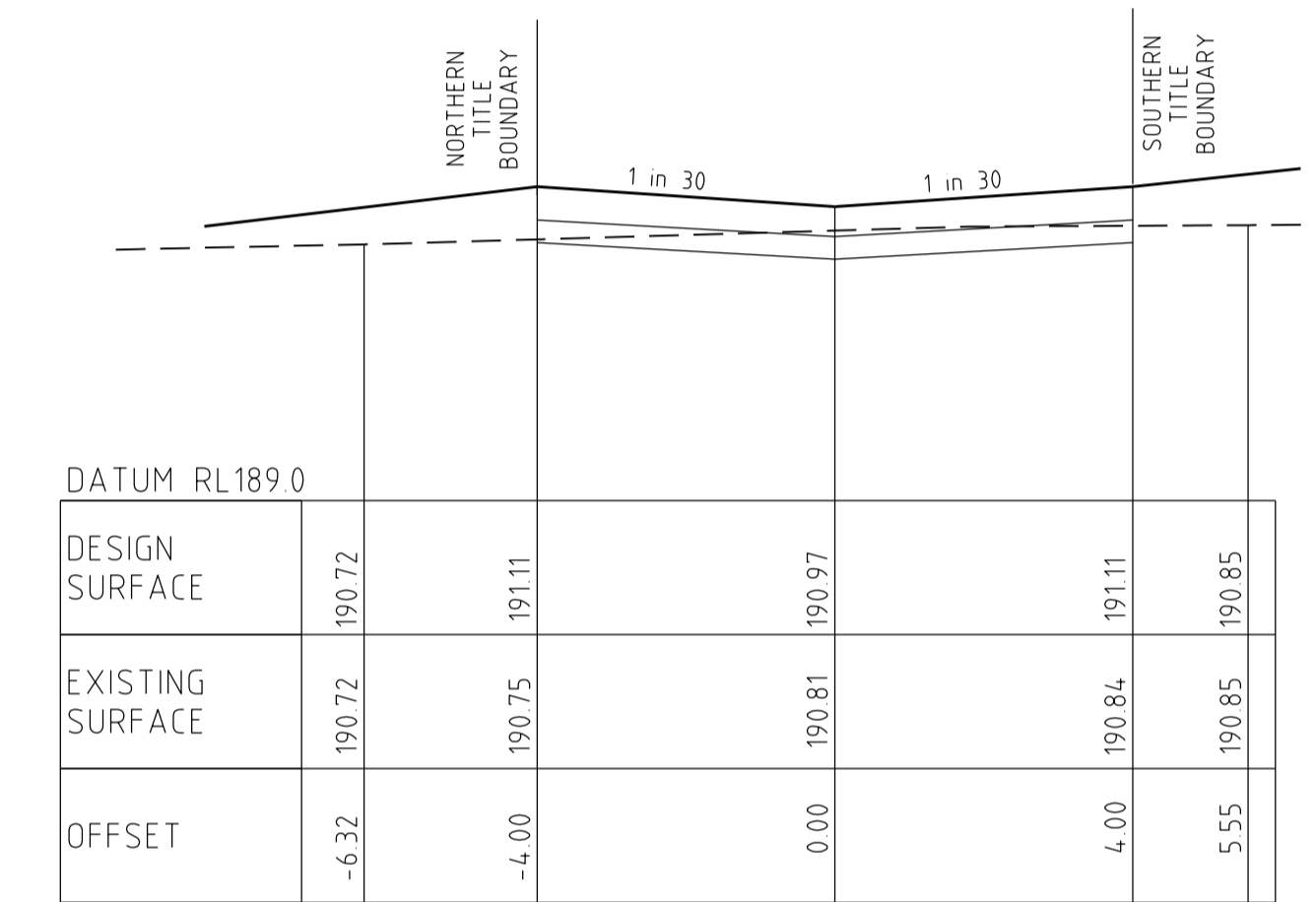


CURVE SETOUT DIAGRAM

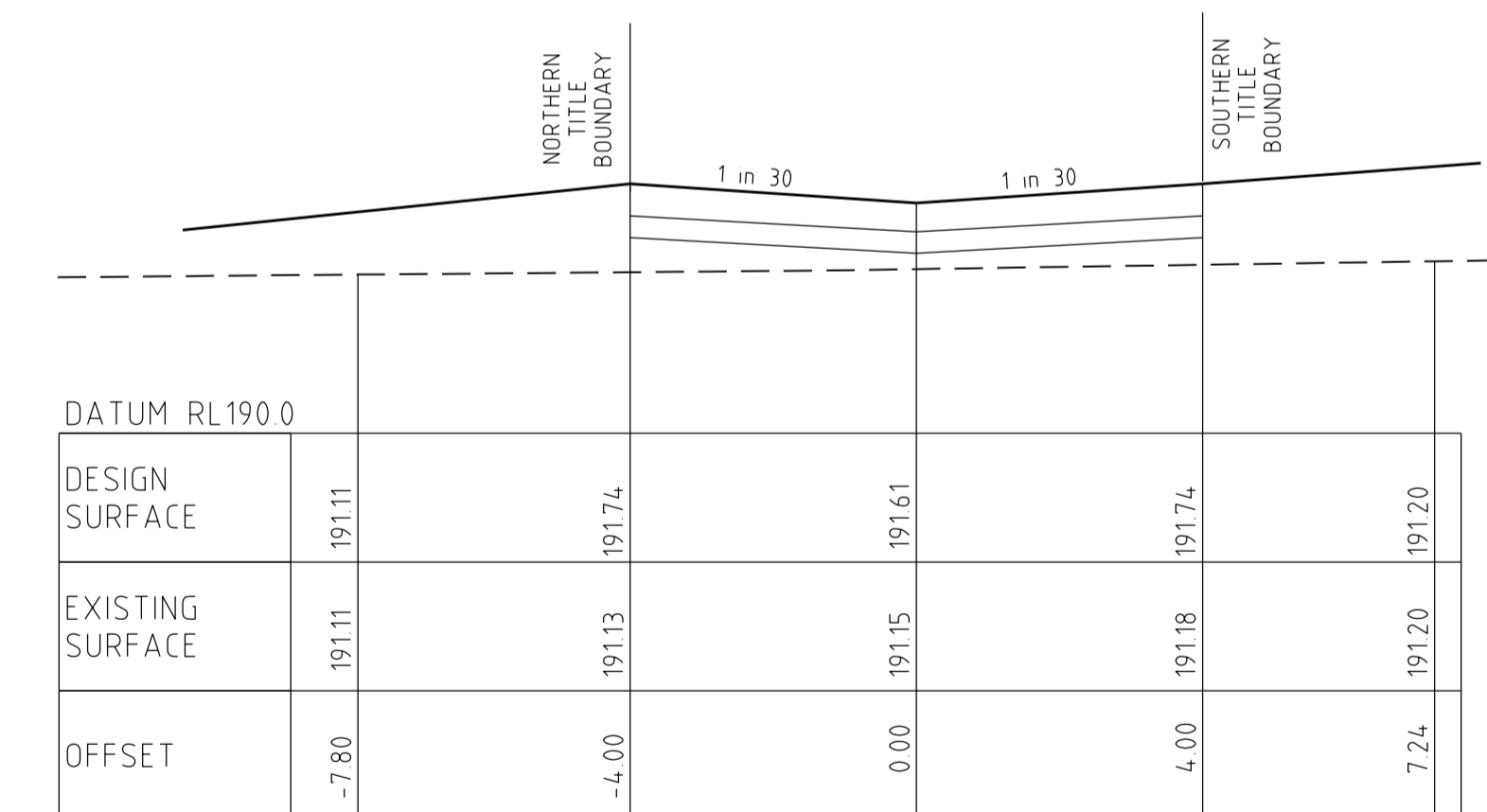
AMENDMENTS				breese pitt dixon pty. ltd.		1/19 cato street
				land surveyors	civil engineers	hawthorn east, 3123
				MELWAY REF. 388-C-10	INTERSECTION DETAILS & ETHAN LANE	telephone 8823 2300
				SURVEY BPD	RATHDOWNE ESTATE	fax no. 8823 2310
			DESIGN SS	STAGE 3	MUNICIPALITY	
			DRAWN SS	INTERSECTION DETAILS & ETHAN LANE	WHITTLESEA	
			CHECKED	SCALE AS SHOWN	REFERENCE	
				DATUM AHD	9365 E/3	
				DATE OCT'17	SHEET 3 OF 11	
					P2	



25.43



40.43



62.00

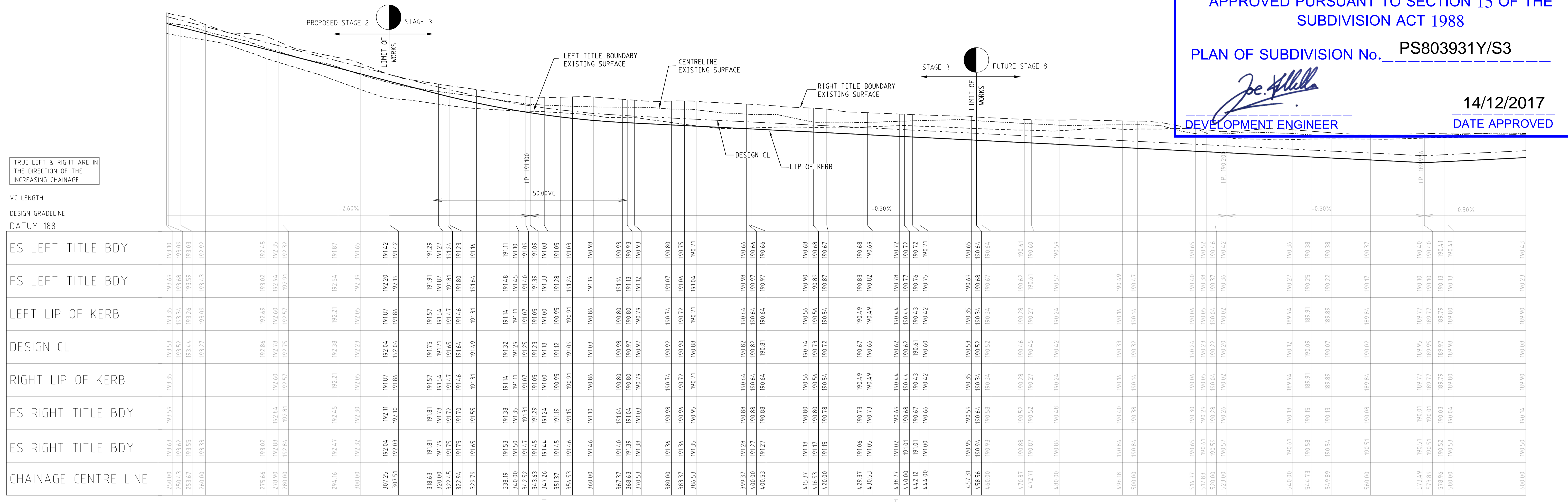
CITY OF WHITTLESEA

ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS803931Y/S3

Joe Whittle
DEVELOPMENT ENGINEER

14/12/2017
DATE APPROVED



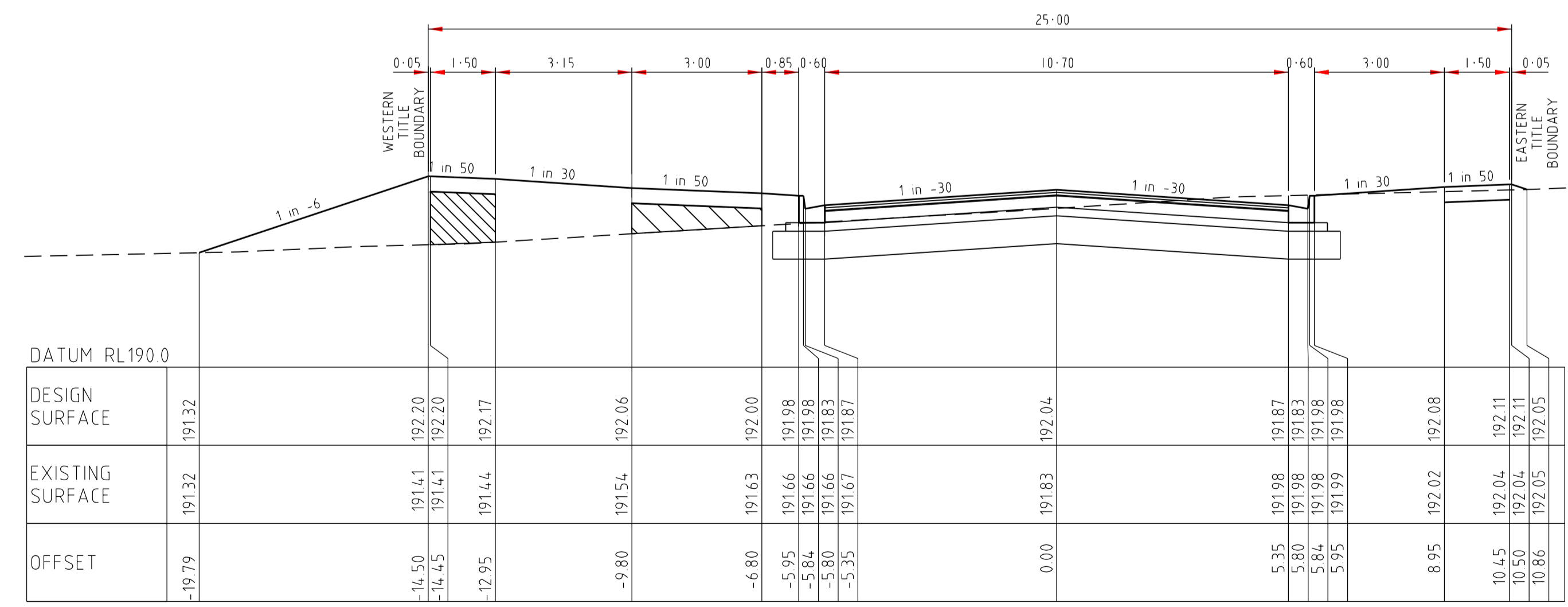
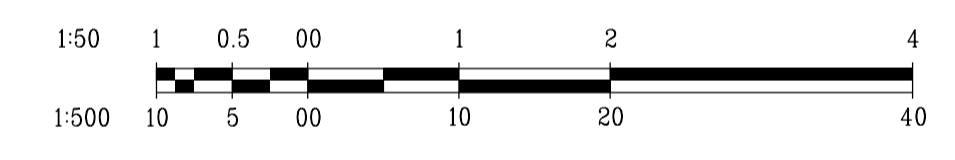
TRUE LEFT & RIGHT ARE IN THE DIRECTION OF THE INCREASING CHAINAGE

VC LENGTH
DESIGN GRADELINE
DATUM 188

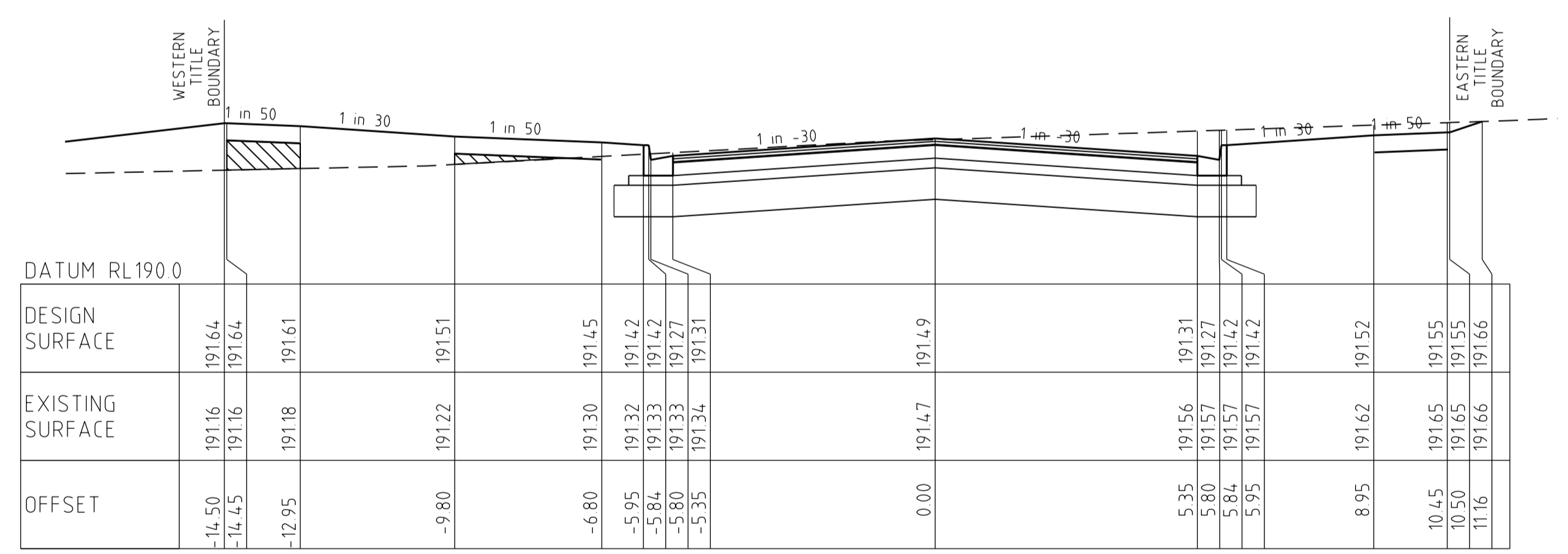
ES LEFT TITLE BDY	FS LEFT TITLE BDY	LEFT LIP OF KERB	DESIGN CL	RIGHT LIP OF KERB	FS RIGHT TITLE BDY	ES RIGHT TITLE BDY	CHAINAGE CENTRE LINE
193.10	193.69	193.35	193.53	193.35	193.59	193.63	250.00
193.09	193.68	193.34	193.52	193.34	193.58	193.62	250.43
193.03	193.59	193.28	193.44	193.28	193.55	193.55	253.67
192.92	193.43	193.09	193.27	193.09	193.33	193.33	260.00
192.45	192.69	192.69	192.86	192.69	192.86	192.86	275.66
192.35	192.94	192.60	192.78	192.60	192.88	192.88	278.90
192.32	192.91	192.57	192.75	192.57	192.84	192.84	280.00
191.87	192.54	192.21	192.38	192.21	192.45	192.47	294.16
191.65	192.39	192.05	192.23	192.05	192.30	192.32	300.00
191.42	192.20	191.87	192.04	191.87	192.11	192.04	307.25
191.42	192.19	191.86	192.04	191.86	192.10	192.03	307.51
191.29	191.91	191.57	191.75	191.57	191.81	191.81	318.63
191.27	191.87	191.54	191.71	191.54	191.78	191.78	320.00
191.24	191.81	191.47	191.65	191.47	191.72	191.72	322.45
191.23	191.80	191.46	191.64	191.46	191.70	191.70	322.94
191.16	191.64	191.31	191.49	191.31	191.55	191.55	328.79
191.11	191.48	191.14	191.32	191.14	191.38	191.38	338.19
191.10	191.45	191.11	191.29	191.11	191.35	191.35	340.00
191.09	191.40	191.07	191.25	191.07	191.31	191.31	342.52
191.08	191.39	191.05	191.23	191.05	191.29	191.29	343.63
191.08	191.33	191.00	191.18	191.00	191.24	191.24	347.26
191.05	191.28	190.95	191.12	190.95	191.19	191.19	351.37
191.03	191.24	190.91	191.09	190.91	191.15	191.15	354.53
190.98	191.19	190.86	191.03	190.86	191.10	191.10	360.00
190.93	191.14	190.80	190.98	190.80	191.04	191.04	367.37
190.93	191.13	190.80	190.97	190.80	191.04	191.04	368.63
190.93	191.12	190.79	190.97	190.79	191.03	191.03	370.53
190.80	191.07	190.74	190.92	190.74	190.98	190.98	380.00
190.75	191.06	190.72	190.90	190.72	190.96	190.96	383.37
190.71	191.04	190.71	190.88	190.71	190.95	190.95	386.53
190.66	190.98	190.64	190.82	190.64	190.88	190.88	392.37
190.68	190.90	190.56	190.74	190.56	190.80	190.80	415.37
190.68	190.89	190.56	190.73	190.56	190.80	190.80	416.53
190.67	190.87	190.54	190.72	190.54	190.78	190.78	420.00
190.68	190.83	190.49	190.67	190.49	190.73	190.73	428.37
190.69	190.82	190.49	190.66	190.49	190.73	190.73	430.53
190.72	190.78	190.44	190.62	190.44	190.69	190.69	438.77
190.72	190.77	190.44	190.62	190.44	190.68	190.68	440.00
190.72	190.76	190.43	190.61	190.43	190.67	190.67	442.12
190.71	190.75	190.42	190.60	190.42	190.66	190.66	444.00
190.65	190.69	190.35	190.53	190.35	190.59	190.59	457.31
190.64	190.68	190.34	190.52	190.34	190.58	190.58	458.56
190.64	190.67	190.34	190.52	190.34	190.58	190.58	460.00
190.61	190.62	190.28	190.46	190.28	190.52	190.52	470.87
190.60	190.61	190.27	190.45	190.27	190.51	190.51	472.71
190.59	190.57	190.24	190.42	190.24	190.48	190.48	480.00
190.49	190.49	190.16	190.33	190.16	190.44	190.44	496.18
190.47	190.47	190.14	190.32	190.14	190.38	190.38	500.00
190.36	190.27	189.94	190.17	189.94	190.18	190.18	540.00
190.38	190.25	189.91	190.09	189.91	190.15	190.15	544.73
190.38	190.22	189.89	190.07	189.89	190.13	190.13	549.89
190.37	190.22	189.84	190.02	189.84	190.08	190.08	560.00
190.41	190.13	189.80	189.98	189.80	190.04	190.04	578.96
190.41	190.13	189.80	189.98	189.80	190.03	190.03	578.96
190.43	190.13	189.80	189.98	189.80	190.04	190.04	580.00
190.43	190.23	189.90	190.08	189.90	190.14	190.14	600.00

LONGITUDINAL SECTION

SCALE HORIZONTAL 1:50
VERTICAL 1:50



DESIGN SURFACE	EXISTING SURFACE	OFFSET
191.32	191.32	-19.79
192.20	191.41	-14.50
192.20	191.41	-14.45
192.17	191.44	-12.95
192.06	191.54	-9.80
192.00	191.63	-6.80
191.98	191.66	-5.95
191.98	191.66	-5.84
191.83	191.66	-5.80
191.87	191.67	-5.35
192.04	191.83	0.00
191.87	191.98	5.35
191.83	191.98	5.80
191.98	191.98	5.84
191.98	191.99	5.95
192.08	192.02	8.95
192.11	192.04	10.45
192.11	192.04	10.50
192.05	192.05	10.86

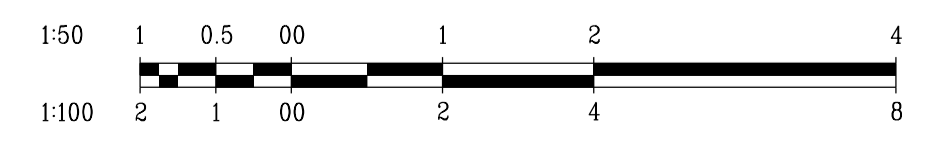


DESIGN SURFACE	EXISTING SURFACE	OFFSET
191.64	191.16	-14.50
191.64	191.16	-14.45
191.61	191.18	-12.95
191.51	191.22	-9.80
191.45	191.30	-6.80
191.42	191.32	-5.95
191.42	191.33	-5.84
191.42	191.33	-5.80
191.31	191.34	-5.35
191.49	191.47	0.00
191.31	191.56	5.35
191.27	191.57	5.80
191.42	191.57	5.84
191.42	191.57	5.95
191.52	191.62	8.95
191.55	191.65	10.45
191.66	191.66	10.50
191.66	191.66	11.16

NORTH STREET

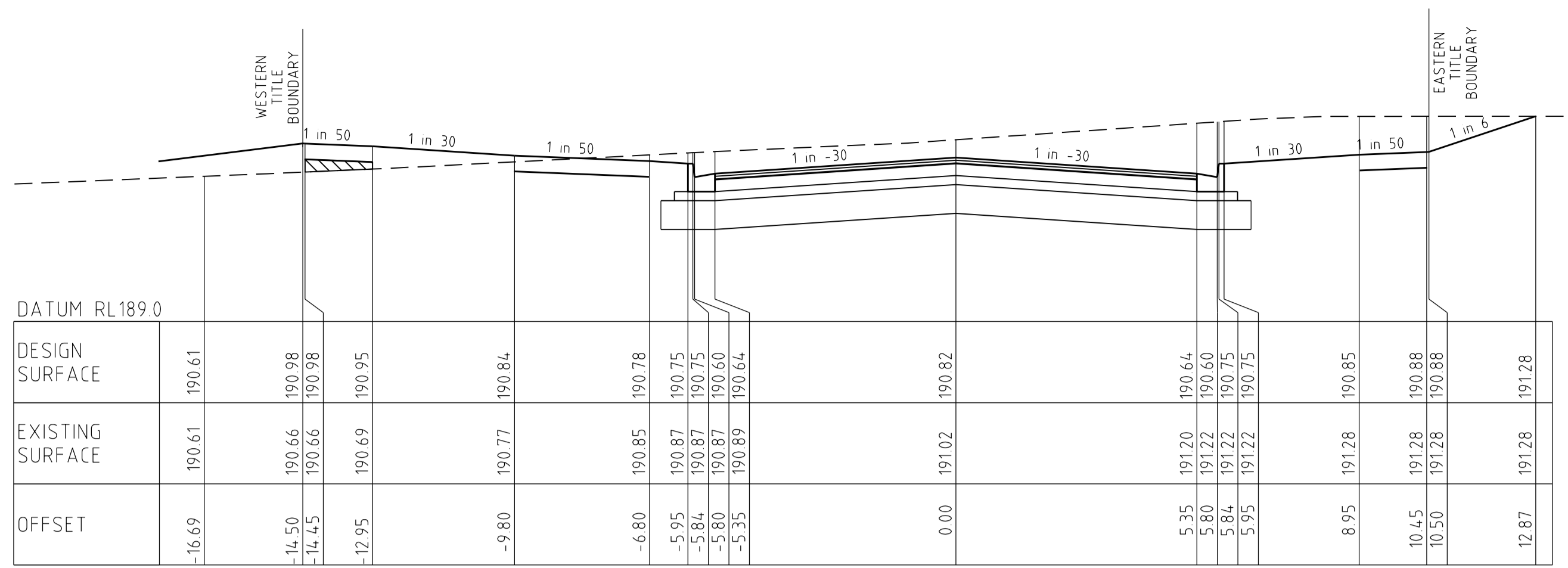
CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

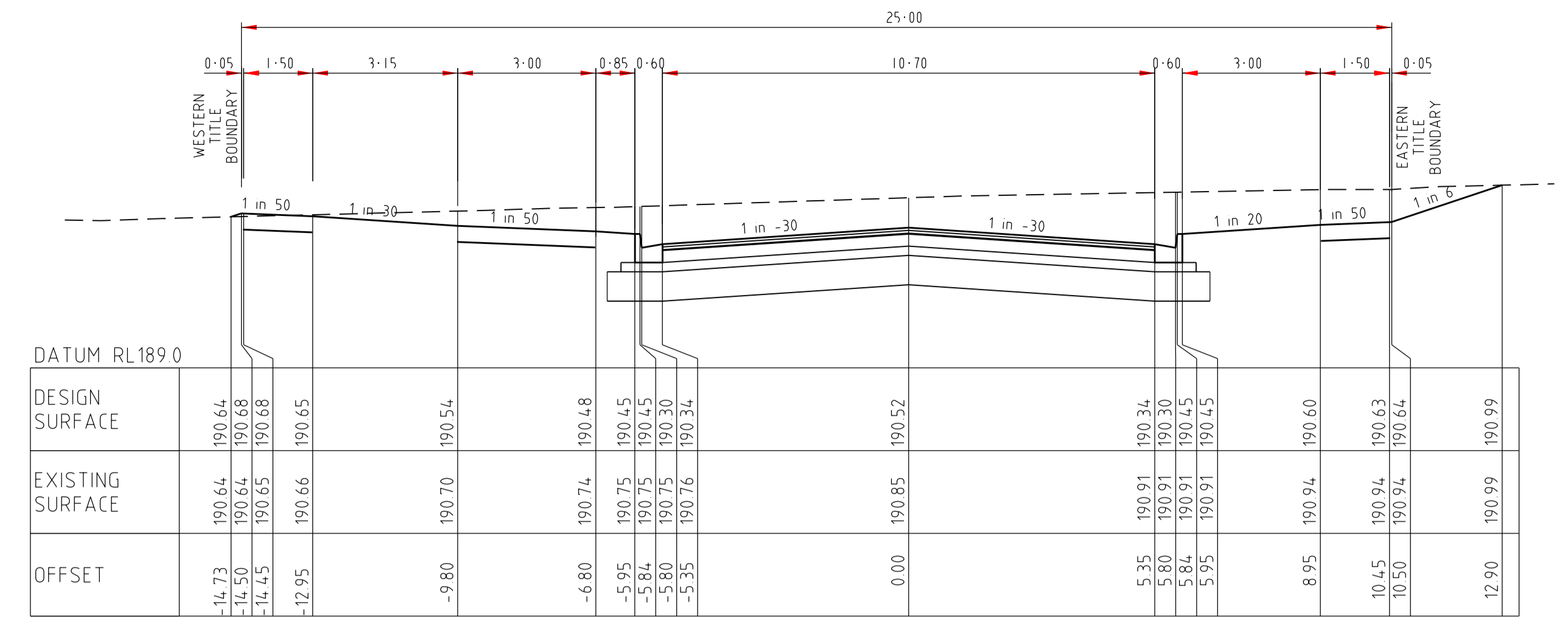


CRUSHED ROCK BACKFILL

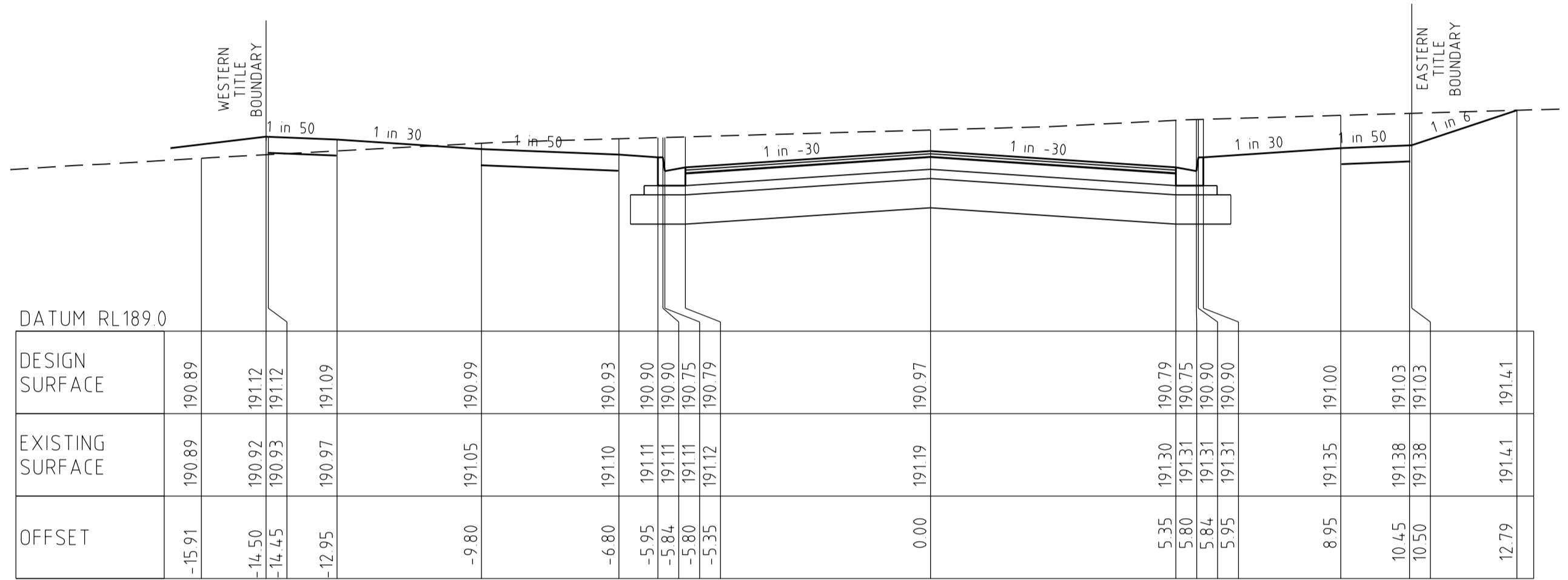
AMENDMENTS				breese pitt dixon Pty. Ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
	MELWAY REF.	388-C-10		RATHDOWNE ESTATE STAGE 3 NORTH STREET		MUNICIPALITY WHITTLESEA
	SURVEY	BPD		REFERENCE 9365 E/3		SHEET 4 OF 11
	DESIGN	SS		SCALE AS SHOWN DATUM AHD		DATE OCT'17
DRAWN	SS	CHECKED		DATE	OCT'17	SHEET 4 OF 11
VER.	DATE	REMARKS		CHECKED	DATE	OCT'17



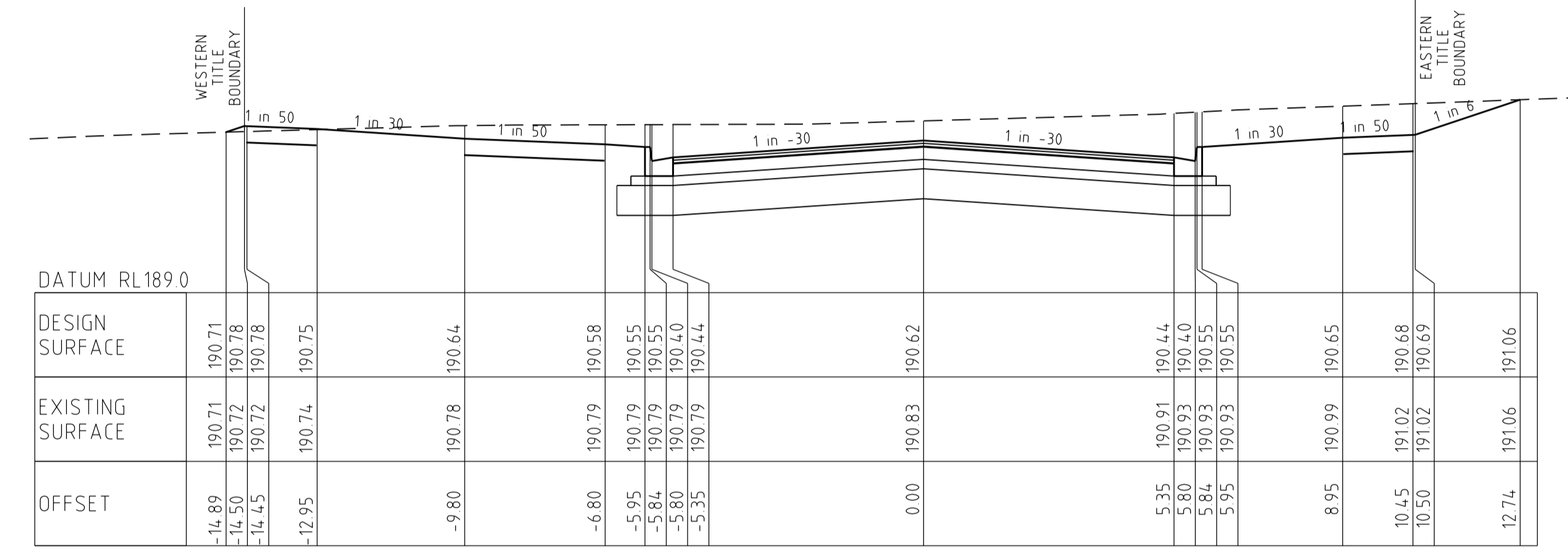
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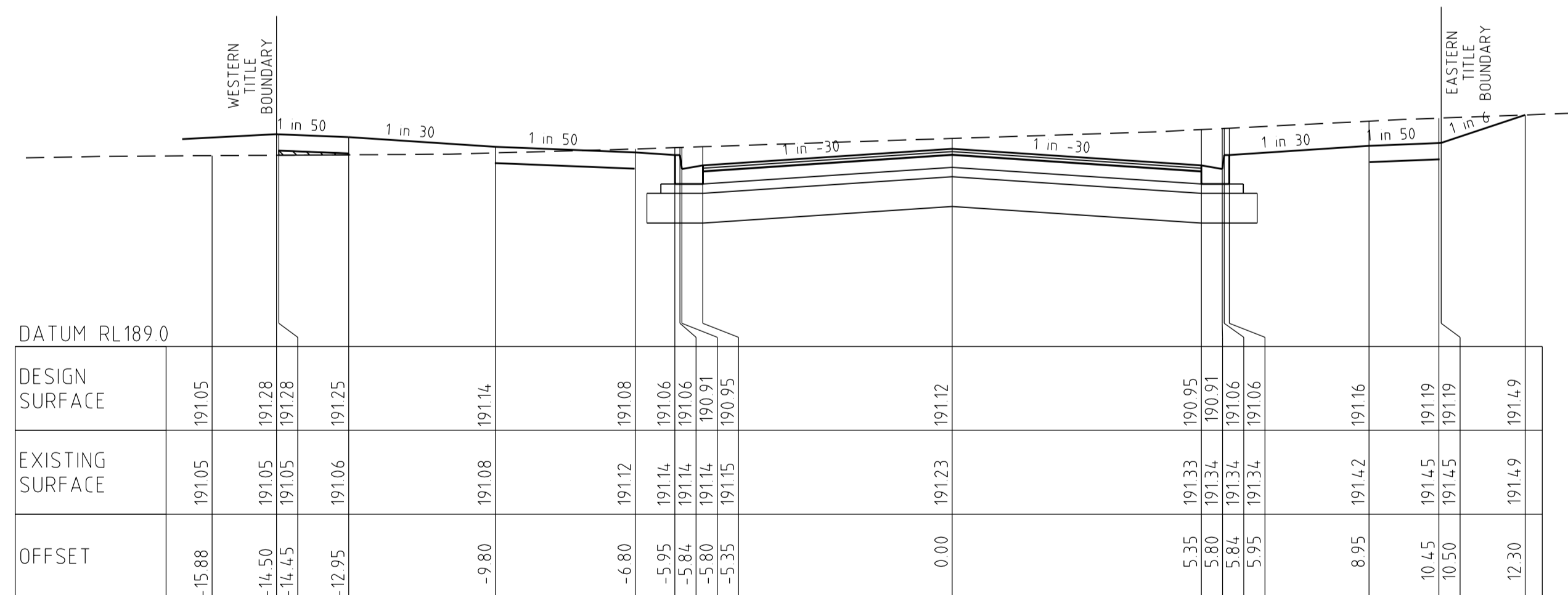
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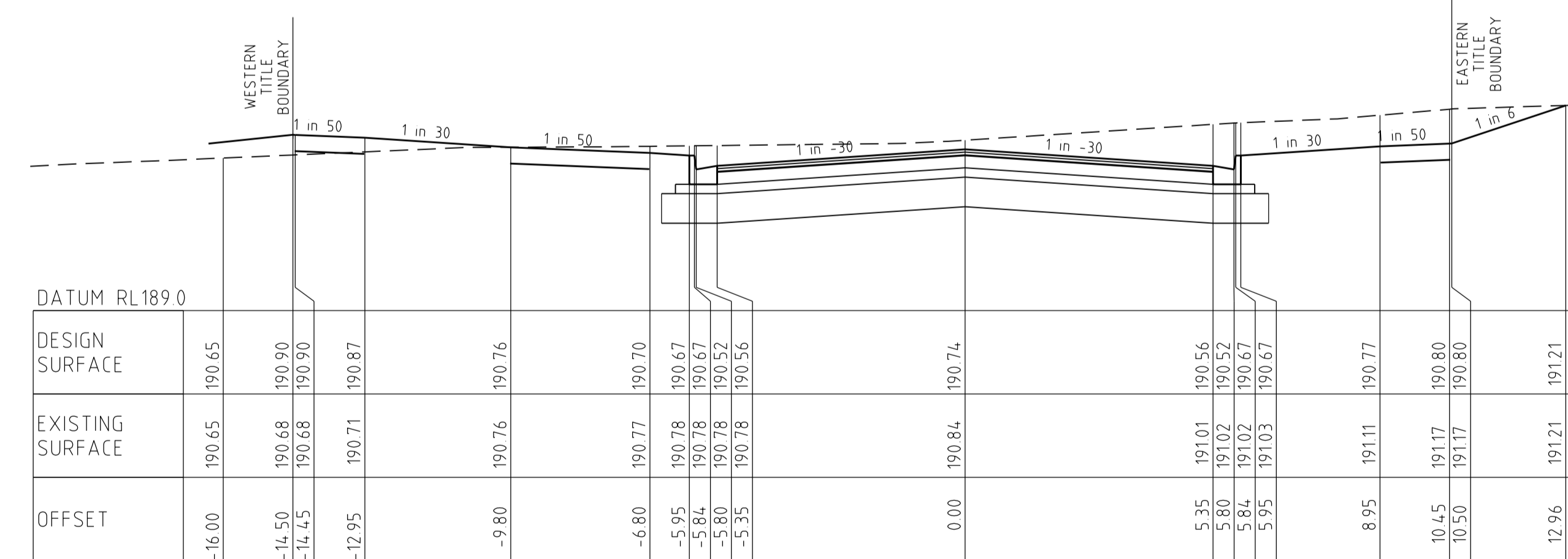
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438.77



351.37



415.37

CITY OF WHITTLESEA
 ENGINEERING PLANS & SPECIFICATIONS
 APPROVED PURSUANT TO SECTION 15 OF THE
 SUBDIVISION ACT 1988

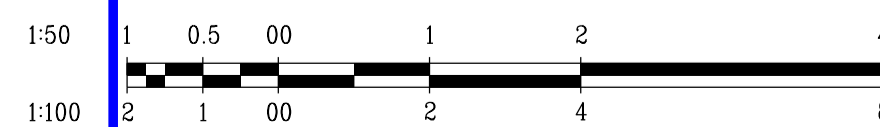
PLAN OF SUBDIVISION No. **PS803931Y/S3**

Joe. Milla
 DEVELOPMENT ENGINEER

14/12/2017
 DATE APPROVED

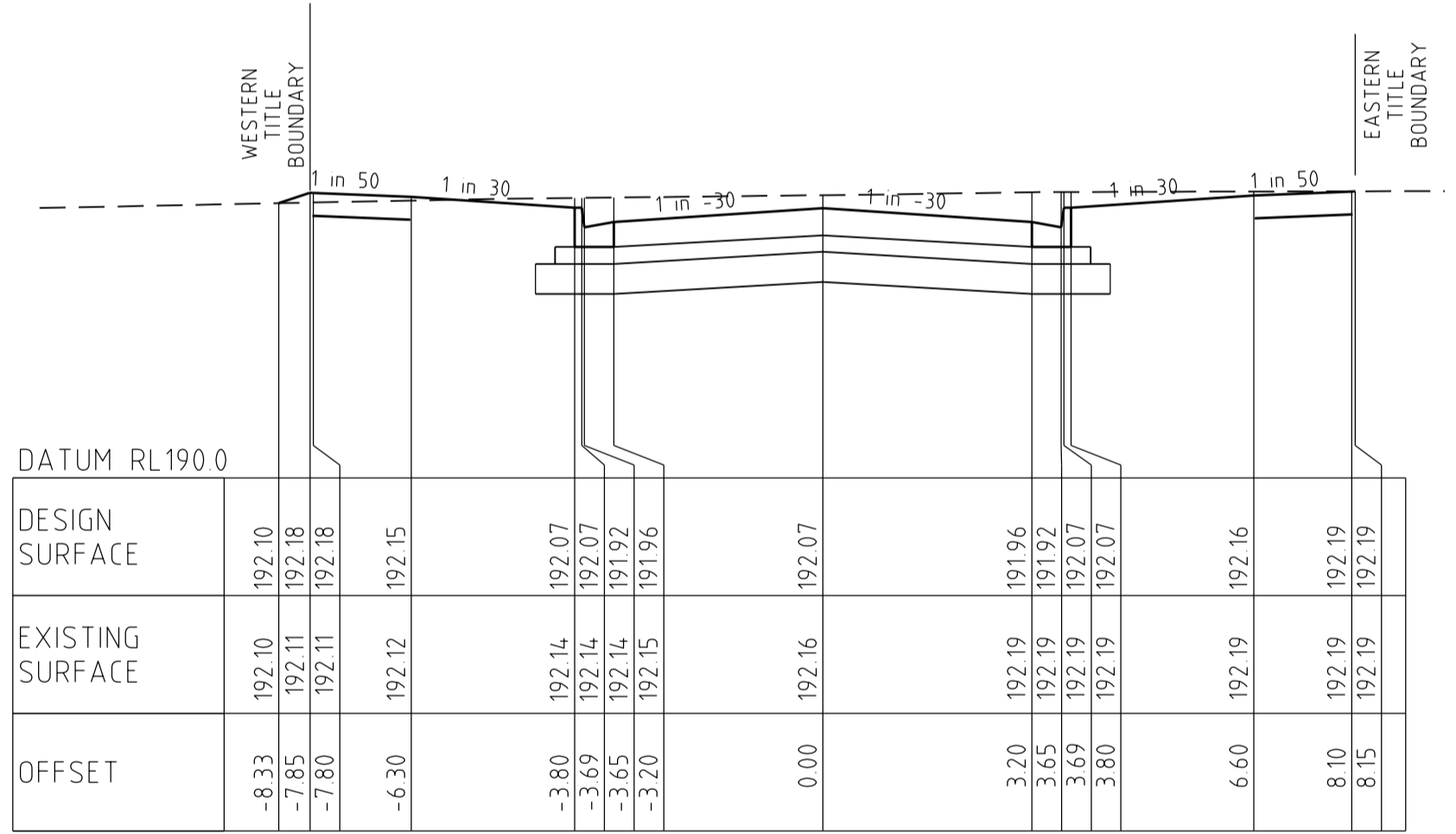
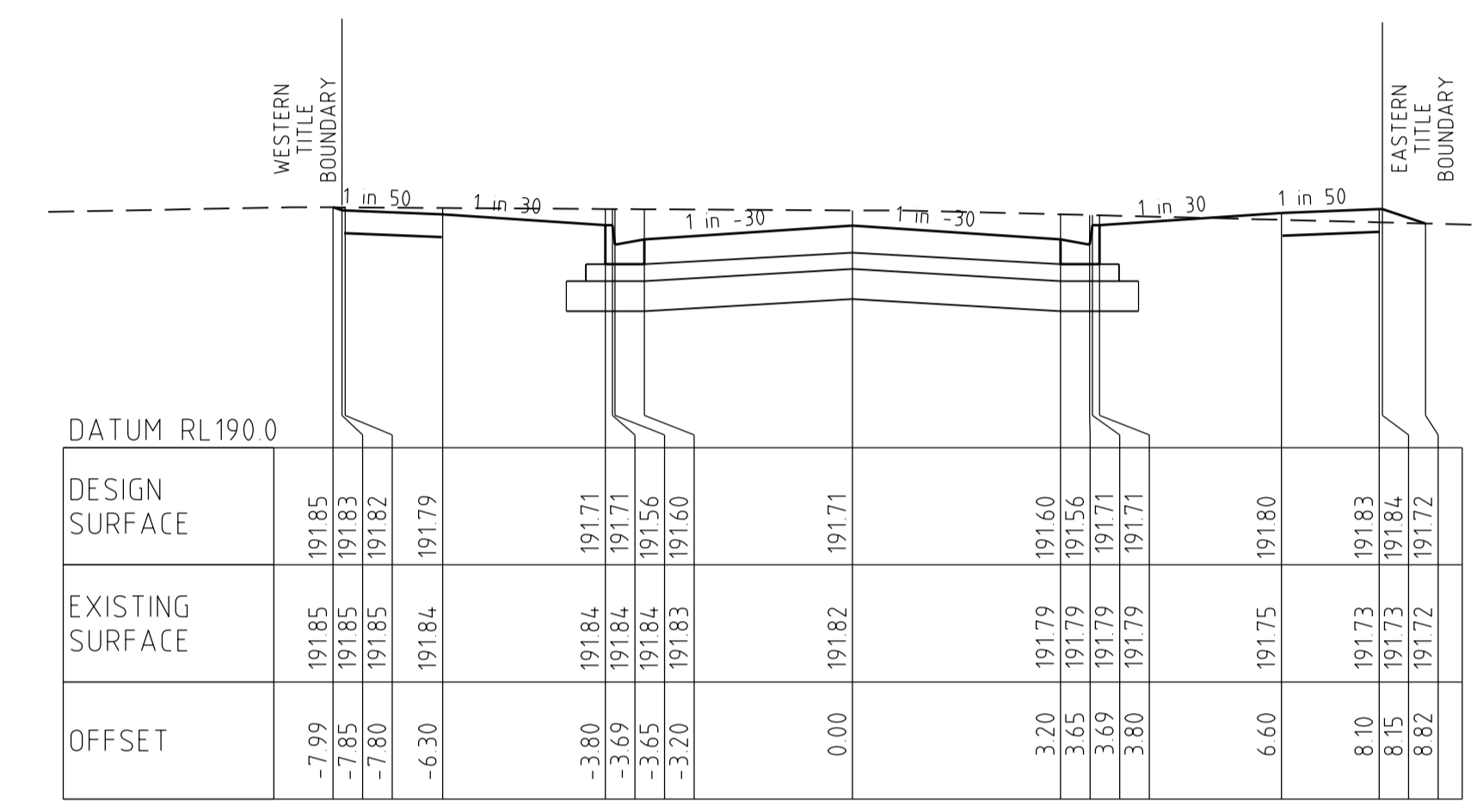
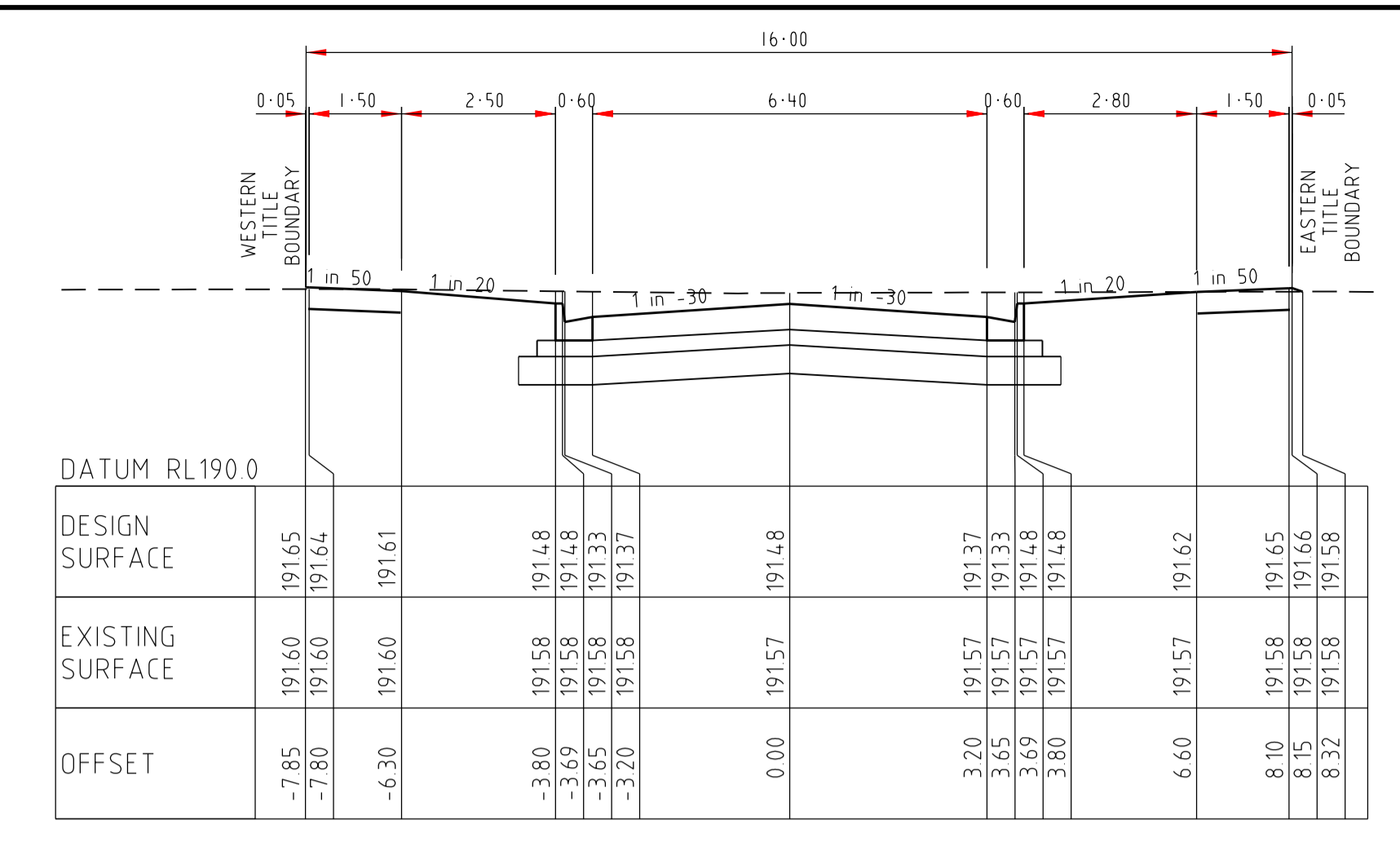
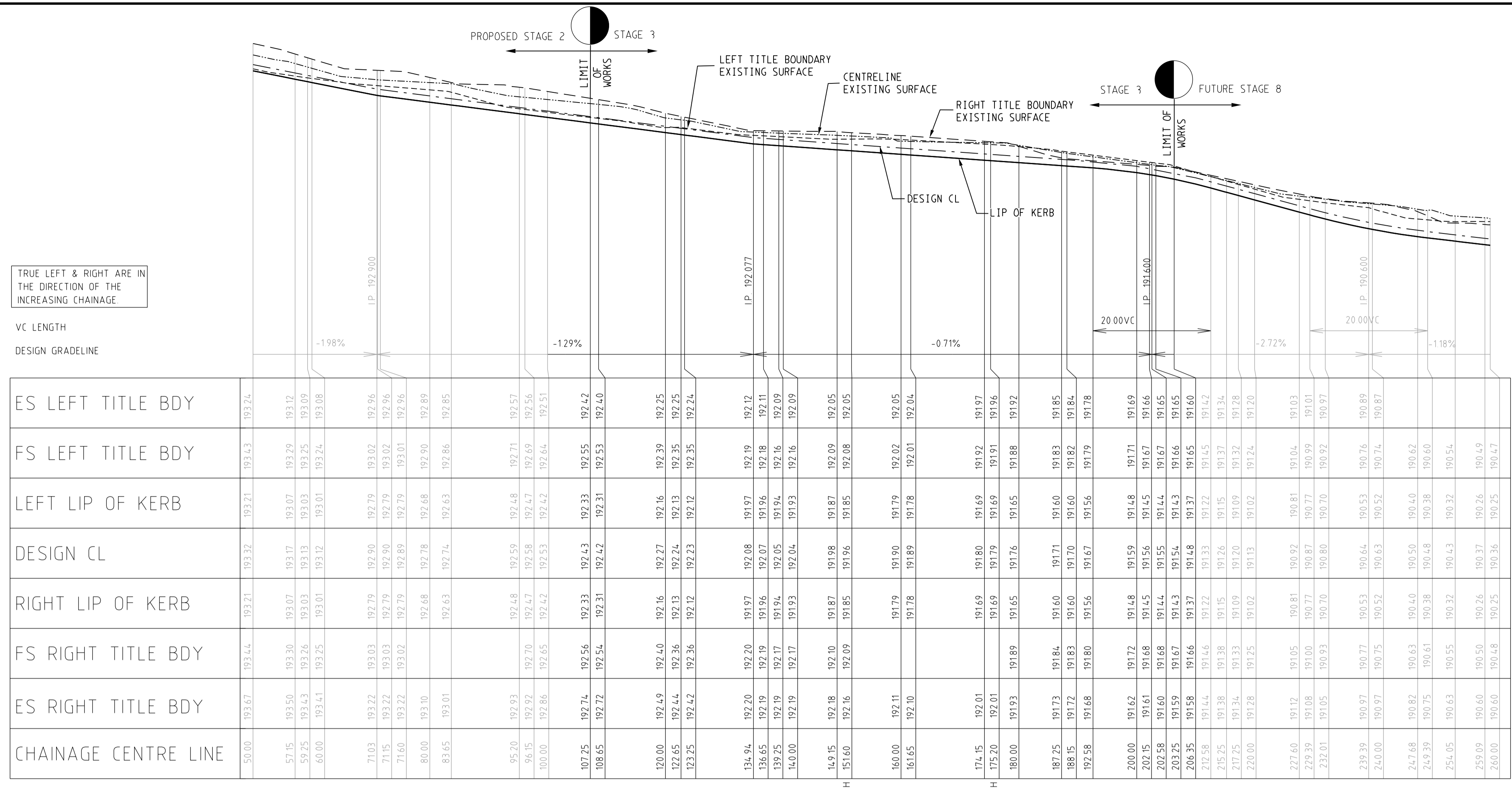
CRUSHED ROCK BACKFILL

CROSS SECTIONS
 SCALE HORIZONTAL 1:100
 VERTICAL 1:50

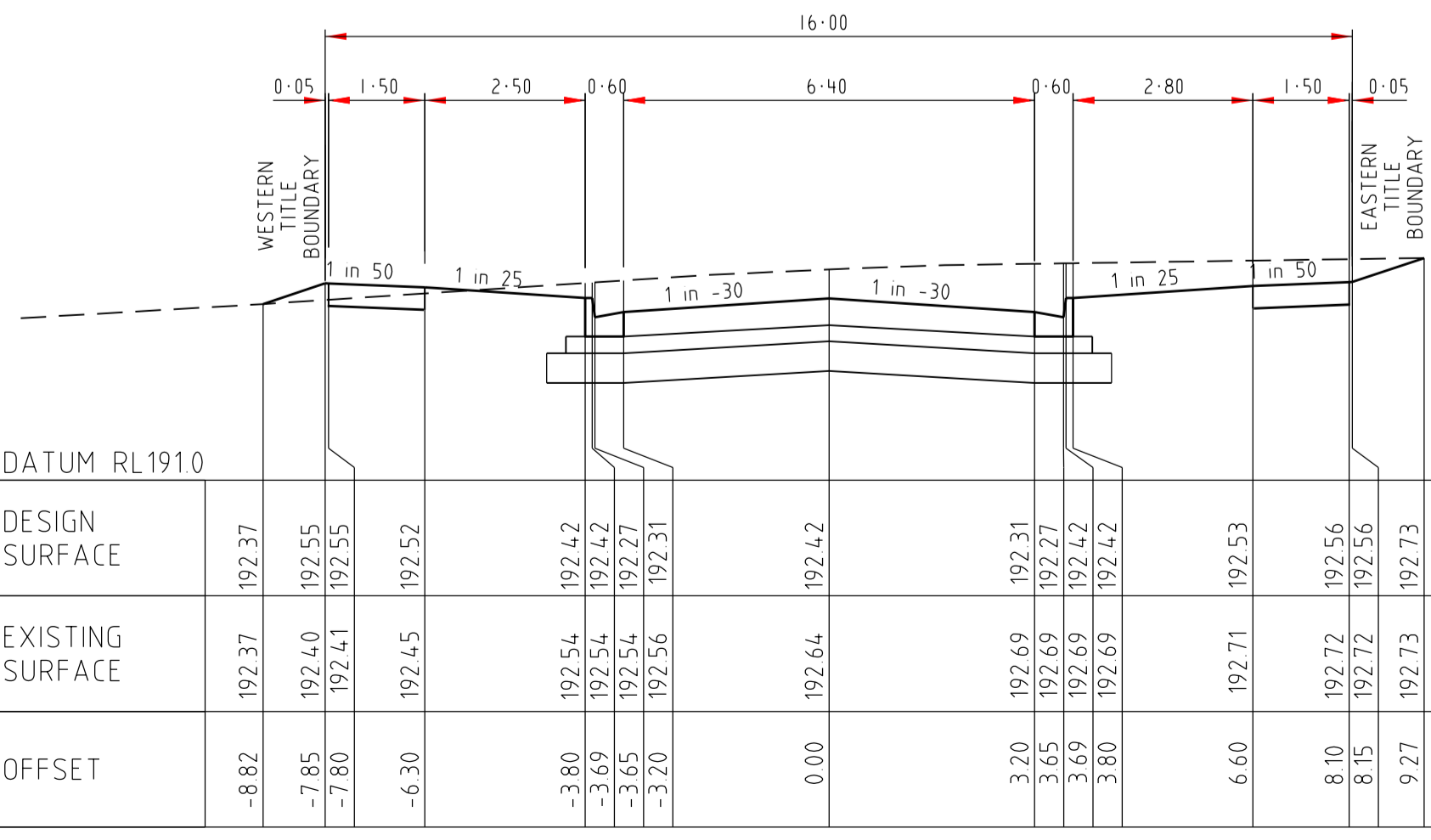
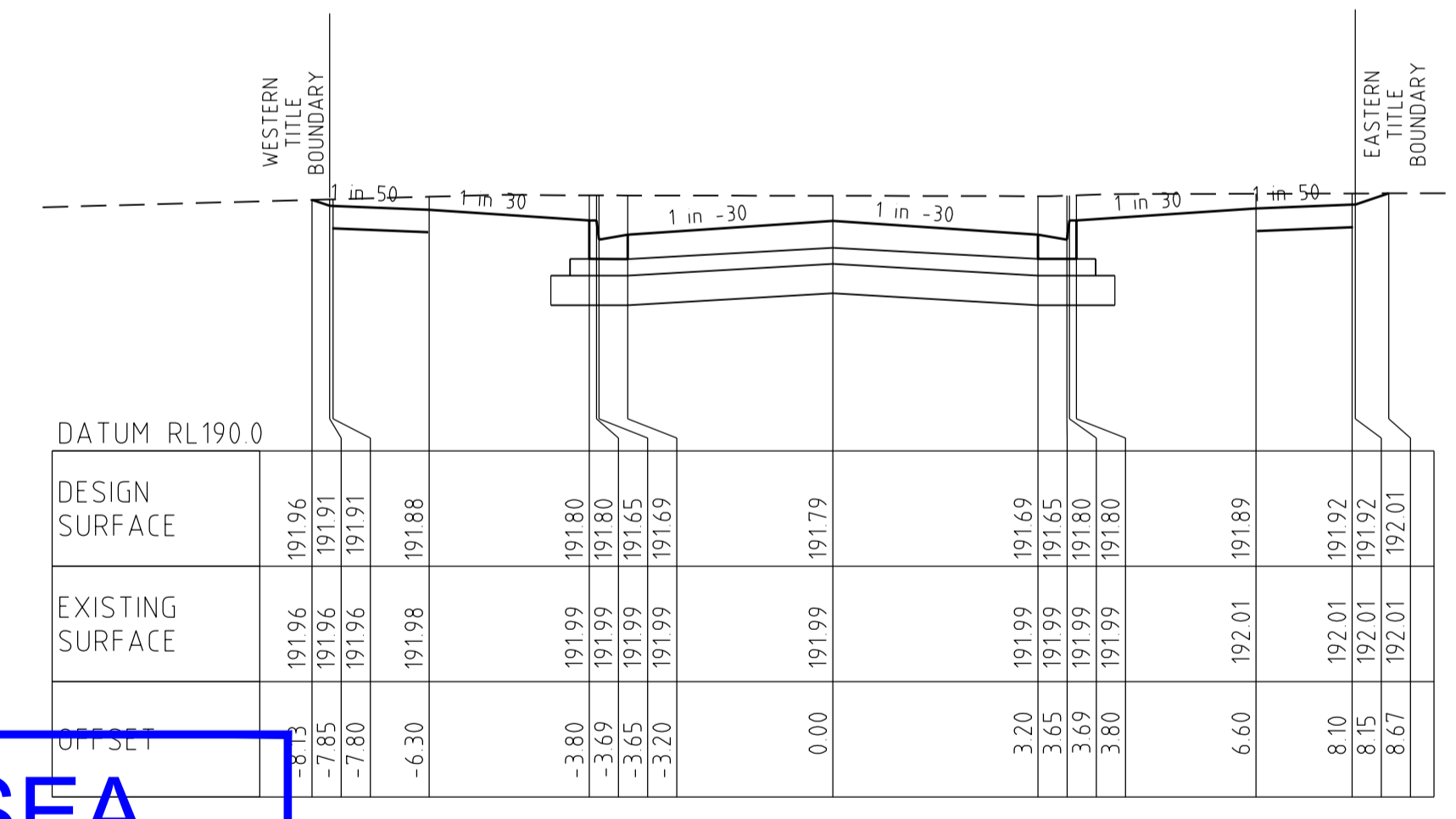
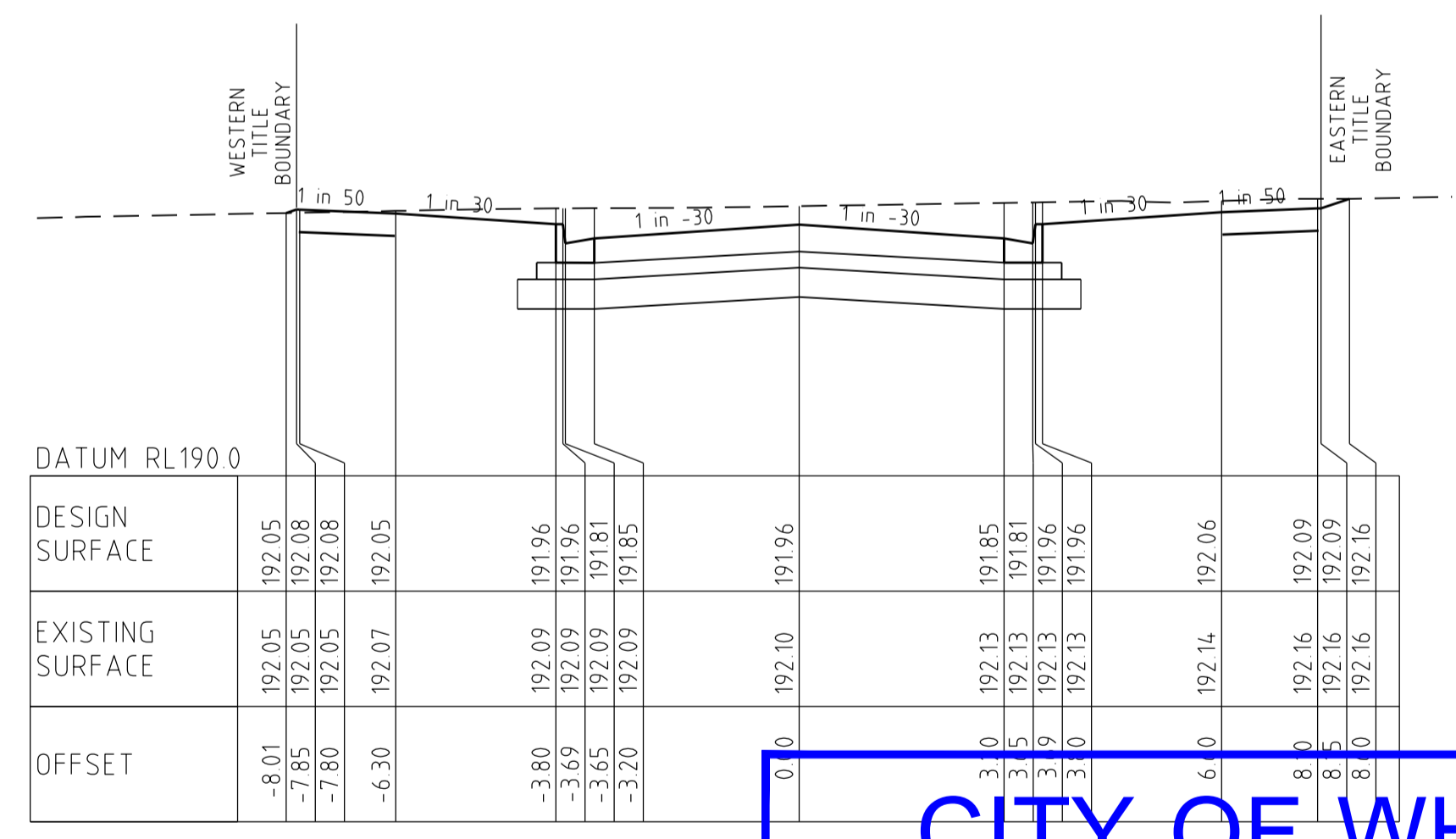


NORTH STREET

AMENDMENTS	VER	DATE	REMARKS	 MELWAY REF. 388-C-10 SURVEY BPD DESIGN SS DRAWN SS CHECKED SCALE AS SHOWN DATUM AHD DATE OCT'17	breese pitt dixon Pty. Ltd. land surveyors civil engineers 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	MUNICIPALITY WHITTLESEA REFERENCE 9365 E/3	SHEET 5 OF 11 P2



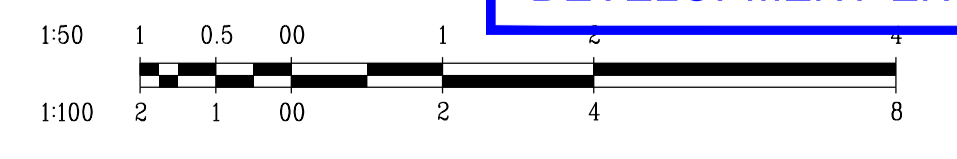
LONGITUDINAL SECTION
 SCALE HORIZONTAL 1:500 VERTICAL 1:50
 1:500 10 0.5 00 1 2 4
 10 5 00 10 20 40



CITY OF WHITTLESEA
 ENGINEERING PLANS & SPECIFICATIONS
 APPROVED PURSUANT TO SECTION 15 OF THE
 SUBDIVISION ACT 1988

YORK PARADE
 PLAN OF SUBDIVISION No. PS803931Y/S3

CROSS SECTIONS
 SCALE HORIZONTAL 1:100 VERTICAL 1:50
 DEVELOPMENT ENGINEER
 DATE APPROVED 14/12/2017



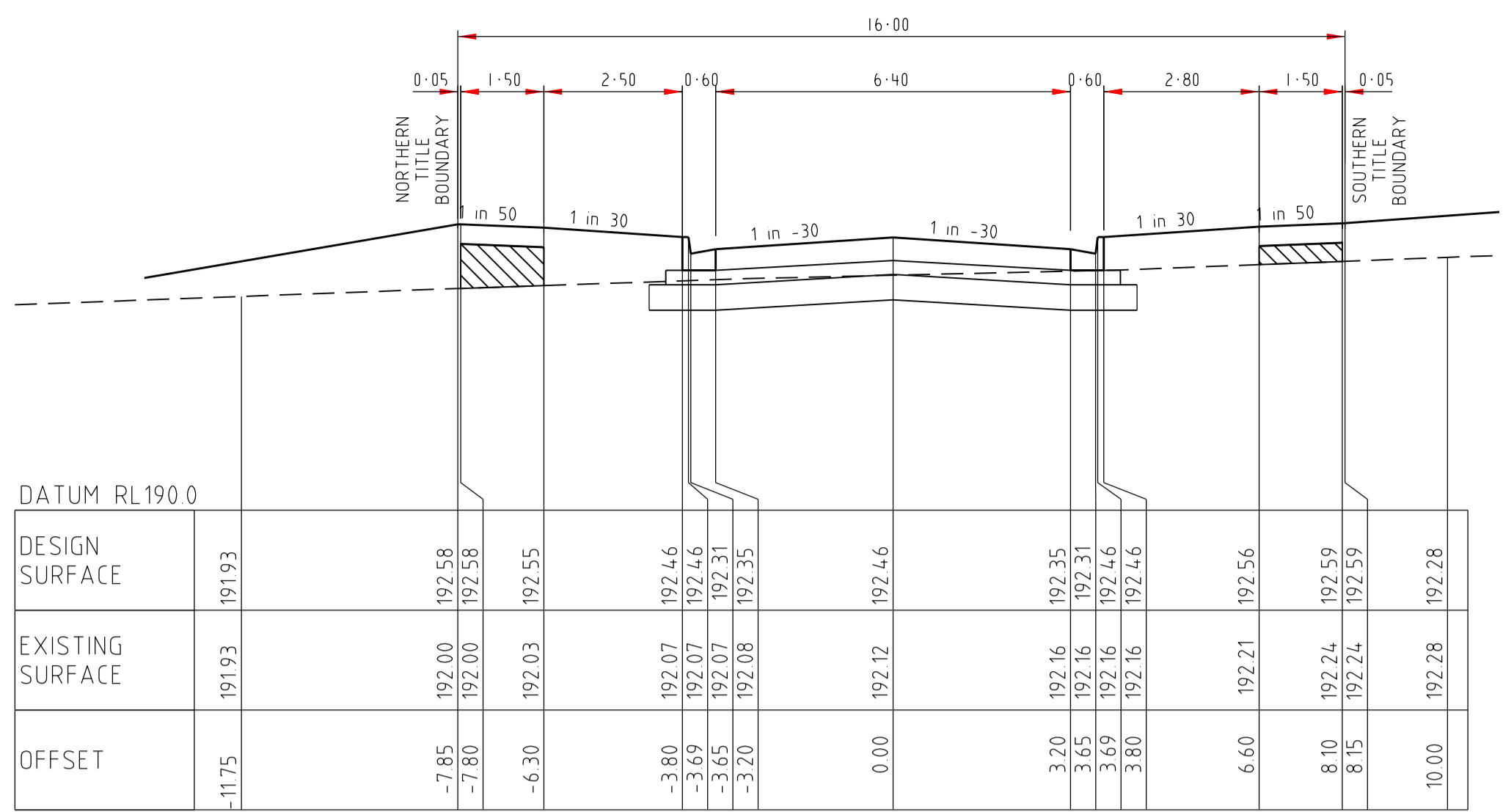
VER.	DATE	REMARKS

breese pitt dixon Pty. Ltd.
 land surveyors civil engineers
 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

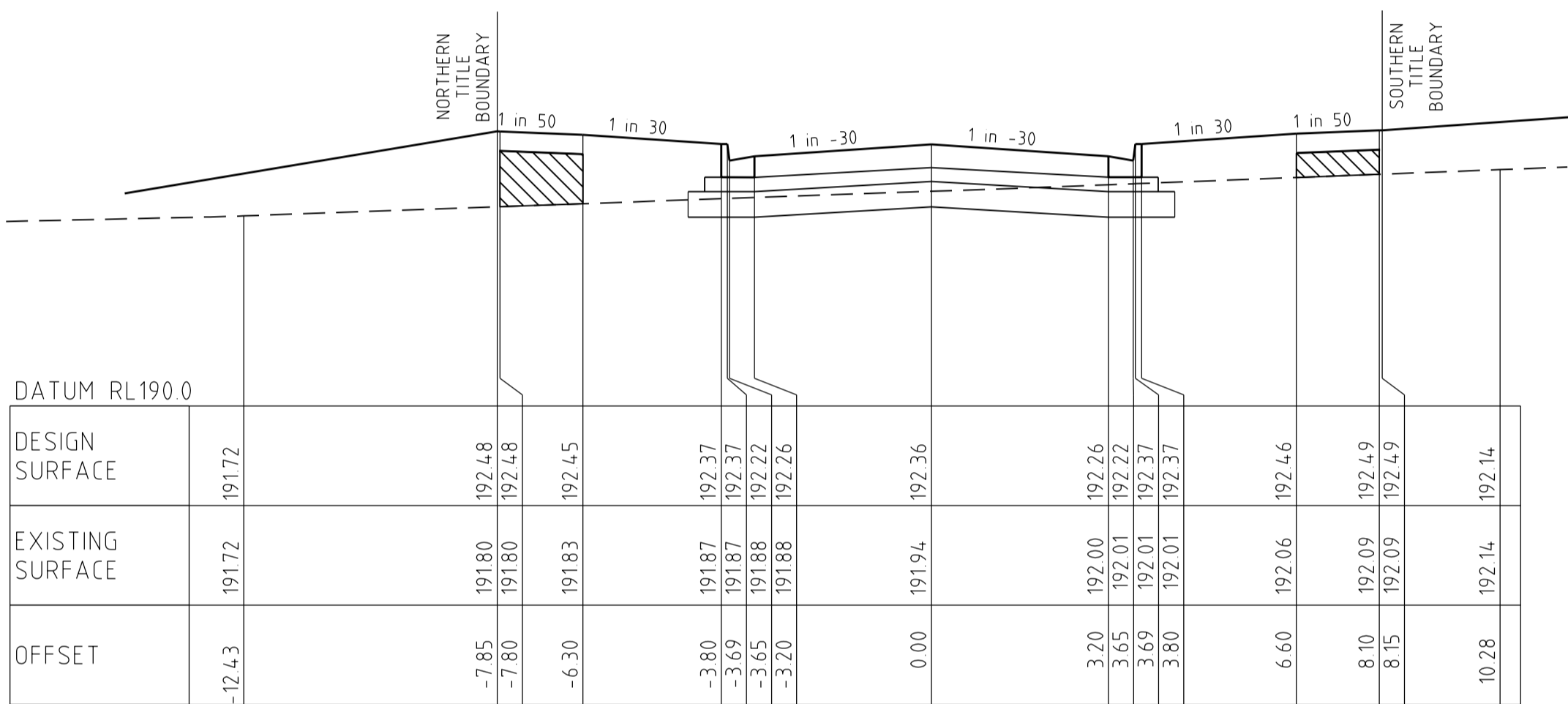
RATHDOWNE ESTATE
STAGE 3
 YORK PARADE

MUNICIPALITY WHITTLESEA
 REFERENCE 9365 E/3
 SHEET 6 OF 11

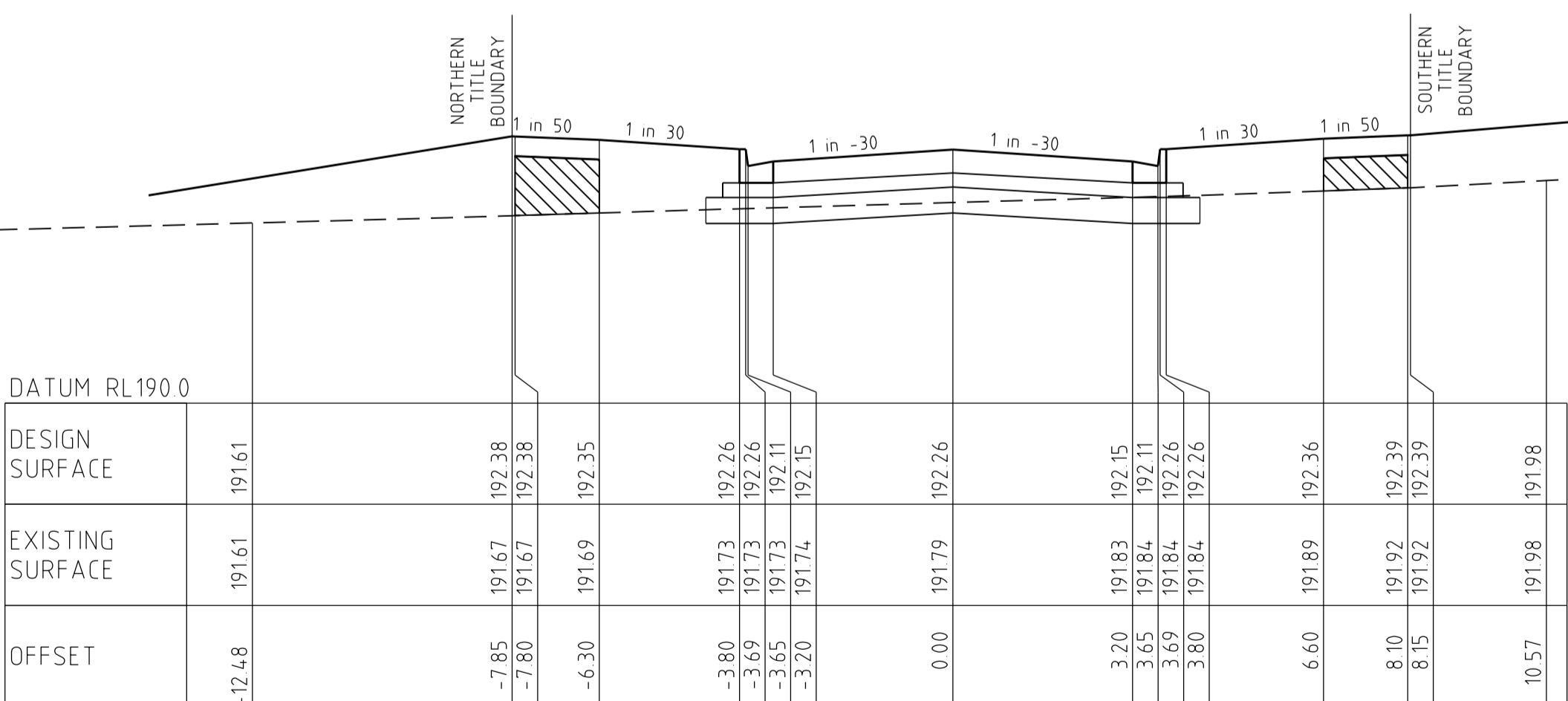
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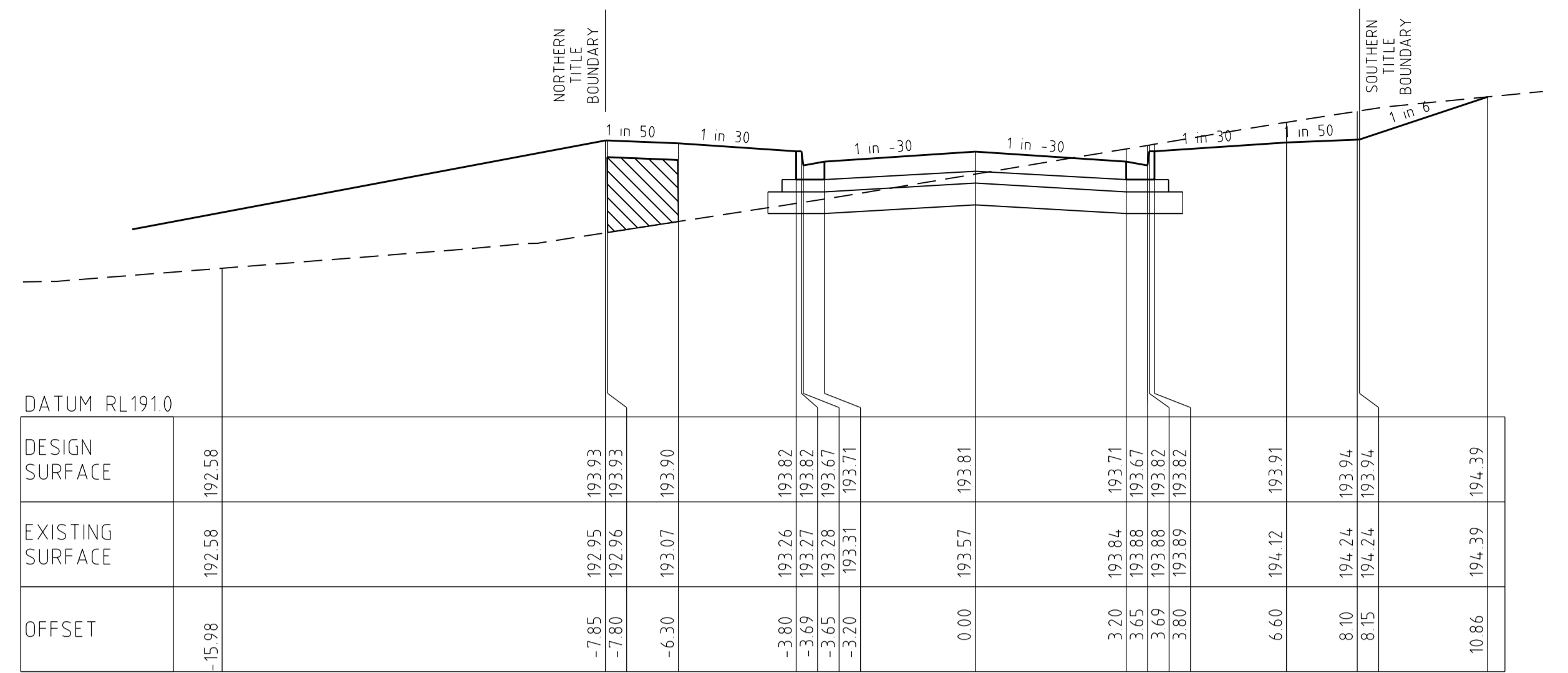
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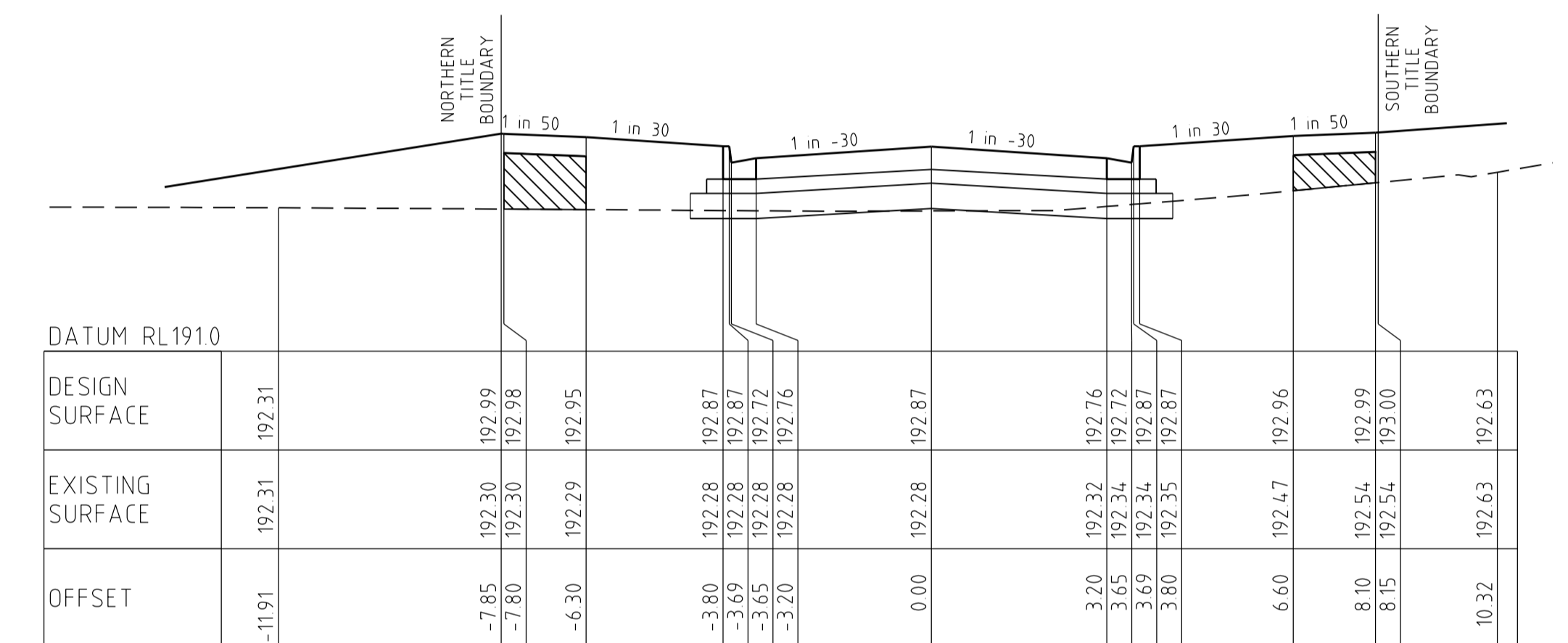
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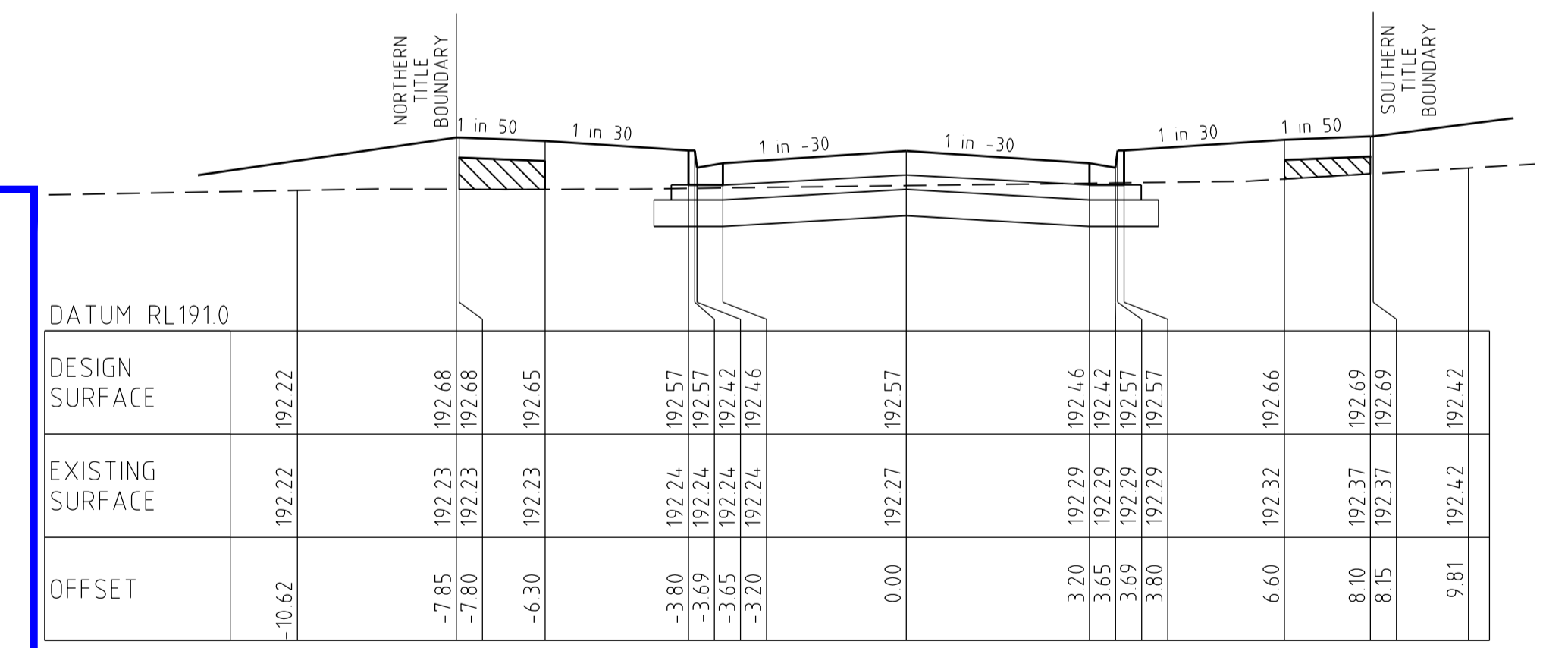
101.15



212.65



182.15



162.65

CITY OF WHITTLESEA
 ENGINEERING PLANS & SPECIFICATIONS
 APPROVED PURSUANT TO SECTION 15 OF THE
 SUBDIVISION ACT 1988

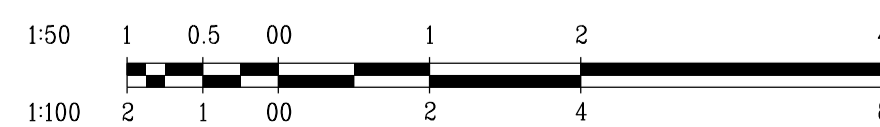
PLAN OF SUBDIVISION No. PS803931Y/S3

Joe Whittle
 DEVELOPMENT ENGINEER

14/12/2017
 DATE APPROVED

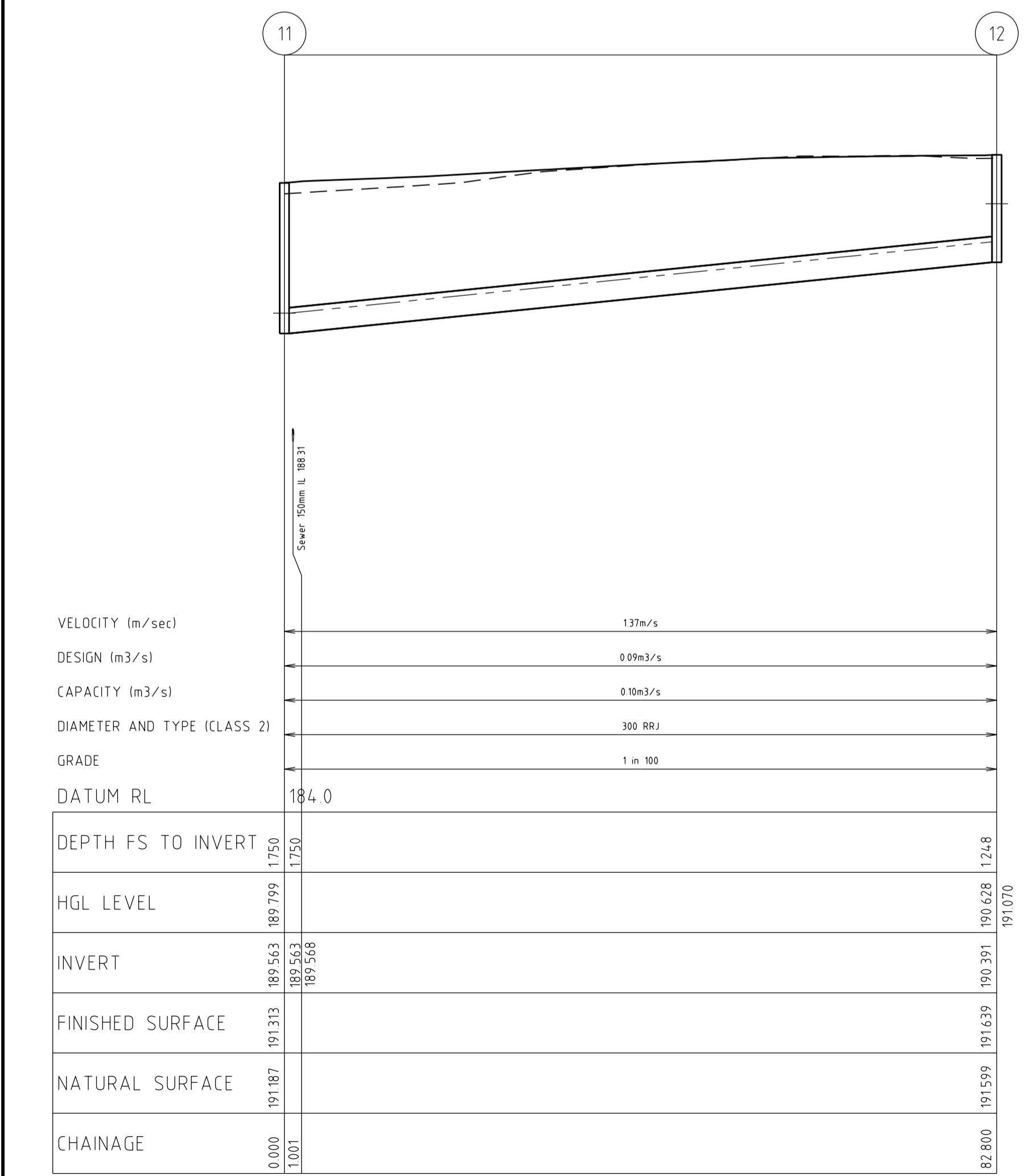
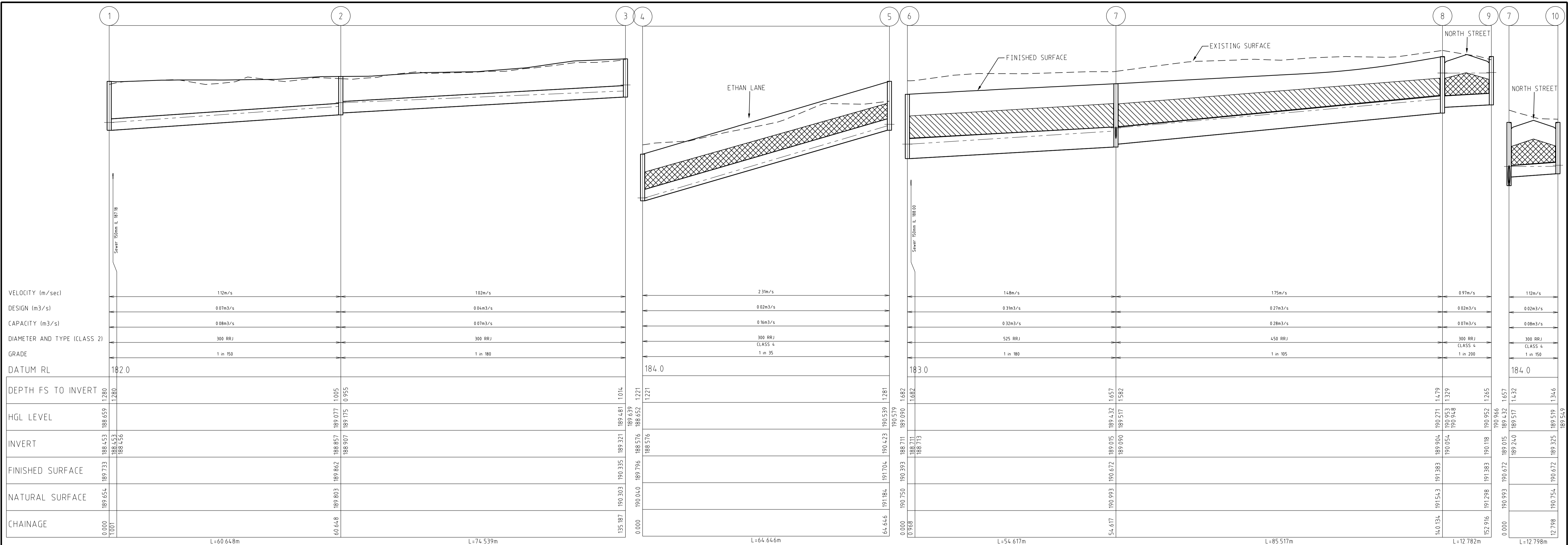
LAVELLE PLACE

CROSS SECTIONS
 SCALE HORIZONTAL 1:100
 VERTICAL 1:50



CRUSHED ROCK BACKFILL

breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388-C-10 SURVEY BPD DESIGN SS DRAWN SS		RATHDOWNE ESTATE STAGE 3 LAVELLE PLACE	
MUNICIPALITY WHITTLESEA REFERENCE 9365 E/3		SCALE AS SHOWN DATUM AHD DATE OCT'17 SHEET 8 OF 11	



PIT SCHEDULE

PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		TOP PIT RL	DEPTH INVERT	REMARKS
				INVERT DIA	DIA	INVERT DIA	DIA			
1	END PIPE			188-45	300	189-73	1-28	189-73	1-28	TEMPORARY SANDBAG ENDWALL
2	JUNCTION PIT	900	600	188-91	300	188-86	1-01	189-86	1-01	EDCM STD DWG 605
3	JUNCTION PIT	900	600	189-32	300	190-33	1-01	190-33	1-01	EDCM STD DWG 605
4	END PIPE			188-57	300	189-80	1-22	189-80	1-22	TEMPORARY SANDBAG ENDWALL
5	GRATED PIT	900	600	188-71	525	190-42	1-28	191-70	1-28	EDCM STD DWG 605, GRATED CLASS D COVER
6	END PIPE			188-71	525	190-39	1-68	190-39	1-68	TEMPORARY SANDBAG ENDWALL
7	GRATED ENTRY PIT (B2)	900	900	189-09	450	189-02	525	190-67	1-66	EDCM STD DWG 601 (HAUNCHED)
8	GRATED ENTRY PIT (B2)	900	600	190-05	300	189-90	450	191-38	1-48	EDCM STD DWG 601
9	GRATED ENTRY PIT (B2)	900	600	190-12	300	191-38	1-27	191-38	1-27	EDCM STD DWG 601
10	GRATED ENTRY PIT (B2)	900	600	189-33	300	190-67	1-35	190-67	1-35	EDCM STD DWG 601
11	END PIPE			189-56	300	191-31	1-75	191-31	1-75	TEMPORARY SANDBAG ENDWALL
12	JUNCTION PIT	900	600	190-39	300	191-64	1-25	191-64	1-25	EDCM STD DWG 605
13	END PIPE			189-29	750	190-95	1-67	190-95	1-67	TEMPORARY SANDBAG ENDWALL
14	GRATED ENTRY PIT (B2)	1050	1050	189-85	750	189-80	750	191-81	2-01	EDCM STD DWG 601 (HAUNCHED)
15	GRATED ENTRY PIT (B2)	1050	1050	189-96	750	189-91	750	191-83	1-93	EDCM STD DWG 601 (HAUNCHED)
16	GRATED ENTRY PIT (B2)	1050	1050	190-23	525	190-00	750	191-83	1-83	EDCM STD DWG 601 (HAUNCHED)
17	JUNCTION PIT	900	900	190-42	450	190-34	525	191-98	1-64	EDCM STD DWG 607 (HAUNCHED)
18	GRATED ENTRY PIT (B2)	900	600	190-84	300	190-69	450	192-28	1-59	EDCM STD DWG 601
19	GRATED ENTRY PIT (B2)	900	600	191-79	300	191-74	300	193-16	1-42	EDCM STD DWG 601
20	END PIPE			192-28	300	193-86	1-59	193-86	1-59	BLANKED END
21	GRATED ENTRY PIT (B2)	900	600	190-47	300	191-81	1-34	191-81	1-34	EDCM STD DWG 601
22	GRATED ENTRY PIT (B2)	900	900	190-34	600	191-98	1-64	191-98	1-64	EDCM STD DWG 601 (HAUNCHED)
23	GRATED ENTRY PIT (B2)	900	600	190-93	300	192-29	1-36	192-29	1-36	EDCM STD DWG 601
24	GRATED ENTRY PIT (B2)	900	600	191-84	300	193-16	1-32	193-16	1-32	EDCM STD DWG 601
25	END PIPE			189-30	375	190-67	1-37	190-67	1-37	TEMPORARY SANDBAG ENDWALL
26	JUNCTION PIT	900	600	189-61	375	189-55	375	191-38	1-83	EDCM STD DWG 605
27	JUNCTION PIT	900	600	190-18	300	190-10	375	191-43	1-33	EDCM STD DWG 605
28	JUNCTION PIT	900	600	190-92	225	190-85	300	191-96	1-11	EDCM STD DWG 605
29	END PIPE			191-90	225	192-75	0-85	192-75	0-85	BLANKED END
30	JUNCTION PIT	900	600	190-35	225	191-55	1-20	191-55	1-20	EDCM STD DWG 605

CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
 APPROVED PURSUANT TO SECTION 15 OF THE
 SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS803931Y/S3

Joe. Williams
 DEVELOPMENT ENGINEER

14/12/2017
 DATE APPROVED

SCALE: HORIZONTAL 1:500
 VERTICAL 1:50

- SCHEDULE NOTES:-
- WHERE PIT HAUNCHING IS REQUIRED, INTERNAL PIT WALL DIMENSIONS MUST ALLOW 50mm CLEARANCE EACH SIDE OF PIPE OUTSIDE DIAMETER, INCLUDING ANGULAR PIPE ENTRY TO PIT. MINIMUM DIMENSIONS OF PIT BASE ARE TO BE AS PER SIZES SPECIFIED IN THE PIT SCHEDULE. TOP OF PIT OPENING FOR ALL HAUNCHED PITS TO BE 900mm x 600mm.
 - PIT BASE TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROP ACROSS PIT IS LESS THAN 50mm.
 - PROVIDE BICYCLE SAFE "V" SHAPED CLASS D GRATE (600mm MIN WIDTH).
- INDICATES CRUSHED ROCK BACKFILL CLASS 2
 INDICATES CRUSHED ROCK BACKFILL CLASS 3
 INDICATES 5YR HGL

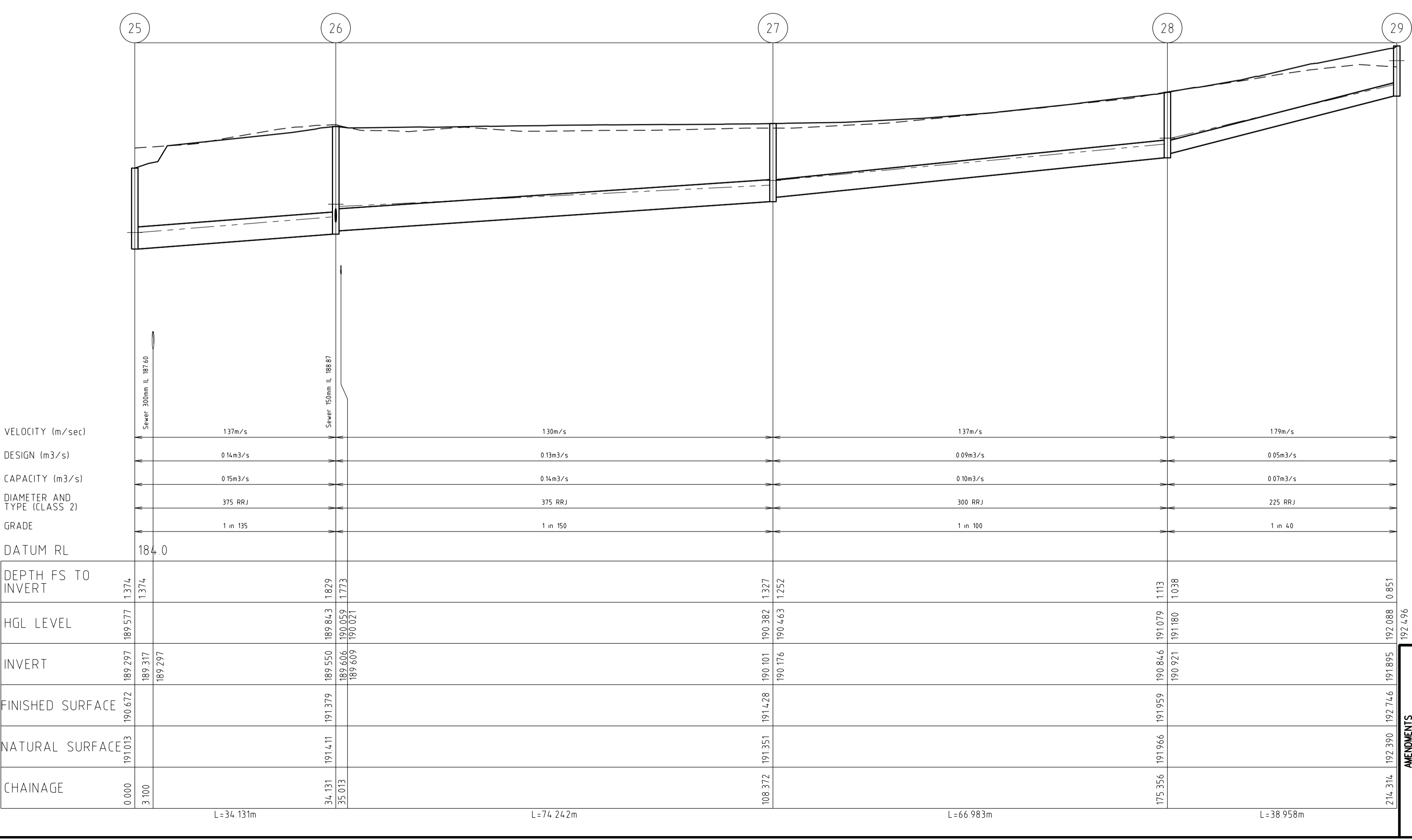
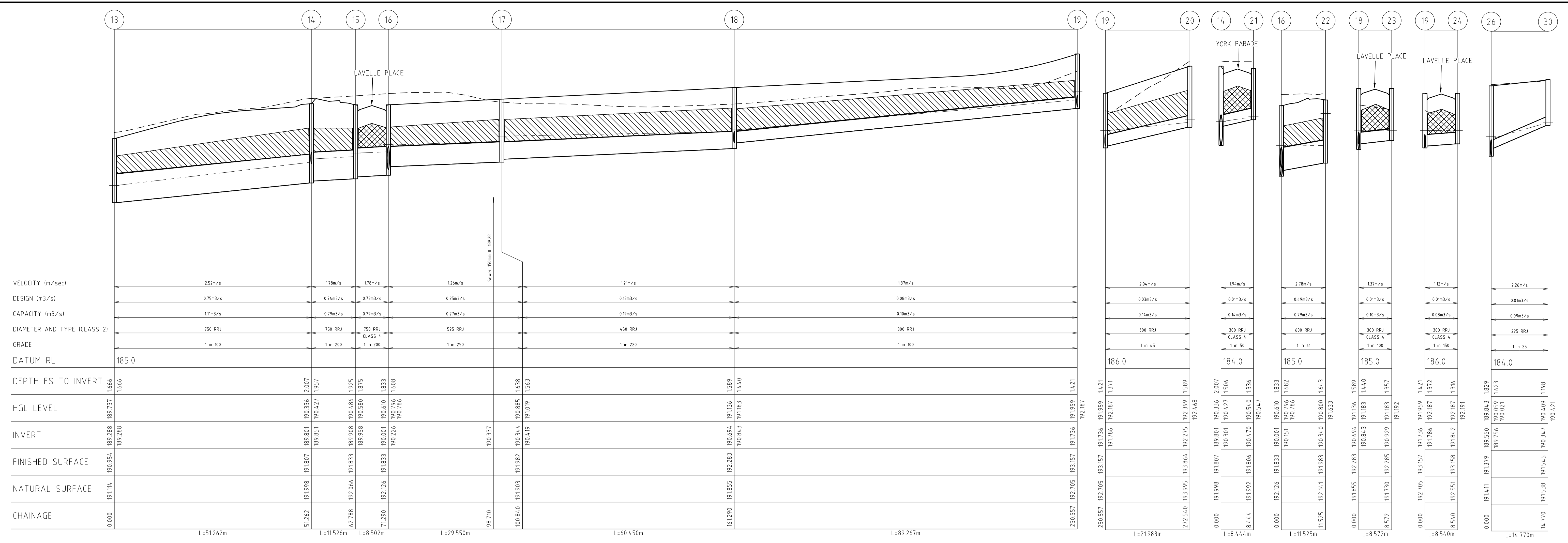
AMENDMENTS	NO.	DATE	REMARKS

MELWAY REF.	388-C-10	breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
SURVEY	BPD	
DESIGN	SS	
DRAWN	SS	

RATHDOWNE ESTATE		MUNICIPALITY
STAGE 3		WHITTLESEA
DRAINAGE LONGITUDINAL SECTION		REFERENCE
9365 E/3		9365 E/3

CHECKED	SCALE AS SHOWN	DATUM AHD	DATE OCT'17

SHEET 9 OF 11



CITY OF WHITTLESEA
 ENGINEERING PLANS & SPECIFICATIONS
 APPROVED PURSUANT TO SECTION 15 OF THE
 SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. **PS803931Y/S3**

Joe. Hille
 DEVELOPMENT ENGINEER

14/12/2017
 DATE APPROVED

- SCHEDULE NOTES:-
- WHERE PIT HAUNCHING IS REQUIRED, INTERNAL PIT DIMENSIONS MUST ALLOW 50mm CLEARANCE EACH SIDE OF PIPE OUTSIDE DIAMETER, INCLUDING ANGULAR PIPE ENTRY TO PIT. MINIMUM DIMENSIONS OF PIT BASE ARE TO BE AS PER SIZES SPECIFIED IN THE PIT SCHEDULE. TOP OF PIT OPENING FOR ALL HAUNCHED PITS TO BE 900mm x 600mm.
 - PIT BASE TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROP ACROSS PIT IS LESS THAN 50mm.
 - PROVIDE BICYCLE SAFE "V" SHAPED CLASS D GRATE (600mm MIN WIDTH).

- INDICATES CRUSHED ROCK BACKFILL CLASS 2
- INDICATES CRUSHED ROCK BACKFILL CLASS 3
- INDICATES 5YR HGL

		breese pitt dixon Pty. Ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388-C-10		RATHDOWNE ESTATE STAGE 3		MUNICIPALITY WHITTLESEA	
SURVEY BPD		DRAINAGE LONGITUDINAL SECTION		REFERENCE 9365 E/3	
DESIGN SS		DRAWN SS		SHEET 10 OF 11	
CHECKED		SCALE AS SHOWN		DATE OCT '17	
DATE		REMARKS		SHEET 10 OF 11	

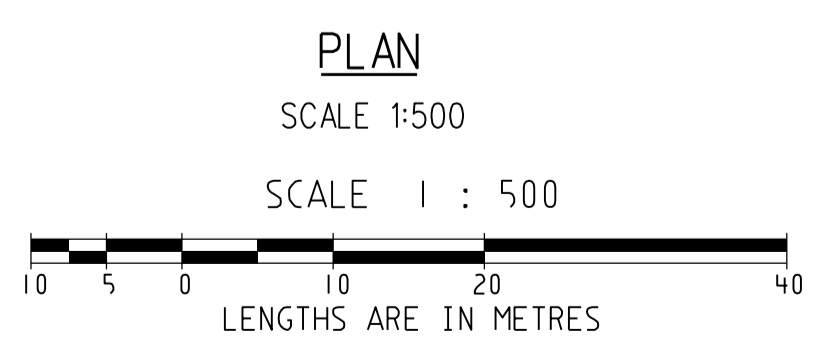


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Joe Milla
 DEVELOPMENT ENGINEER 14/12/2017
 DATE APPROVED

SIGNAGE & LINEMARKING LEGEND

— S1	"STREET" SIGN	
— S2	"GIVE WAY" SIGN (R1-2A)	
— S3	"NO ROAD" SIGN & "HAZARD" SIGN (G9-18)	
— S4	SEGREGATED FOOTWAY (R8-3)	

WARNING
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



WARNING
 CONTRACTOR TO TAKE EXTRA CAUTION OF OPTIC FIBER CABLE IN DAVIS ROAD

SYMBOL LEGEND

Drains	— S	Ex/Natural/FS Level	— E
Sewer <300	— S	FS @ Building Line	— E
Sewer >300	— S	Top/Toe of Batter	— E
Water	— W	Top Ret. Wall Level	— E
House Drain	— H	100yr Flood Level	— E
Property Inlet	— P	Fill Prop/Ex	— E
Street Sign	— S	Cut Prop/Ex	— E
PSM	— P		
Retaining Wall	— R		
Conduits 50mm	— C		
Conduits 100mm	— C		
Ex Gas/Elect/Tel	— G		

VER	DATE	REMARKS

	MELWAY REF. 388-C-10	RATHDOWNE ESTATE STAGE 3	MUNICIPALITY WHITTLESEA
	SURVEY BPD		REFERENCE 9365 E/3
	DESIGN SS		
DRAWN SS	SCALE AS SHOWN	DATUM AHD	DATE OCT'17
CHECKED			SHEET 11 OF 11 P2

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310