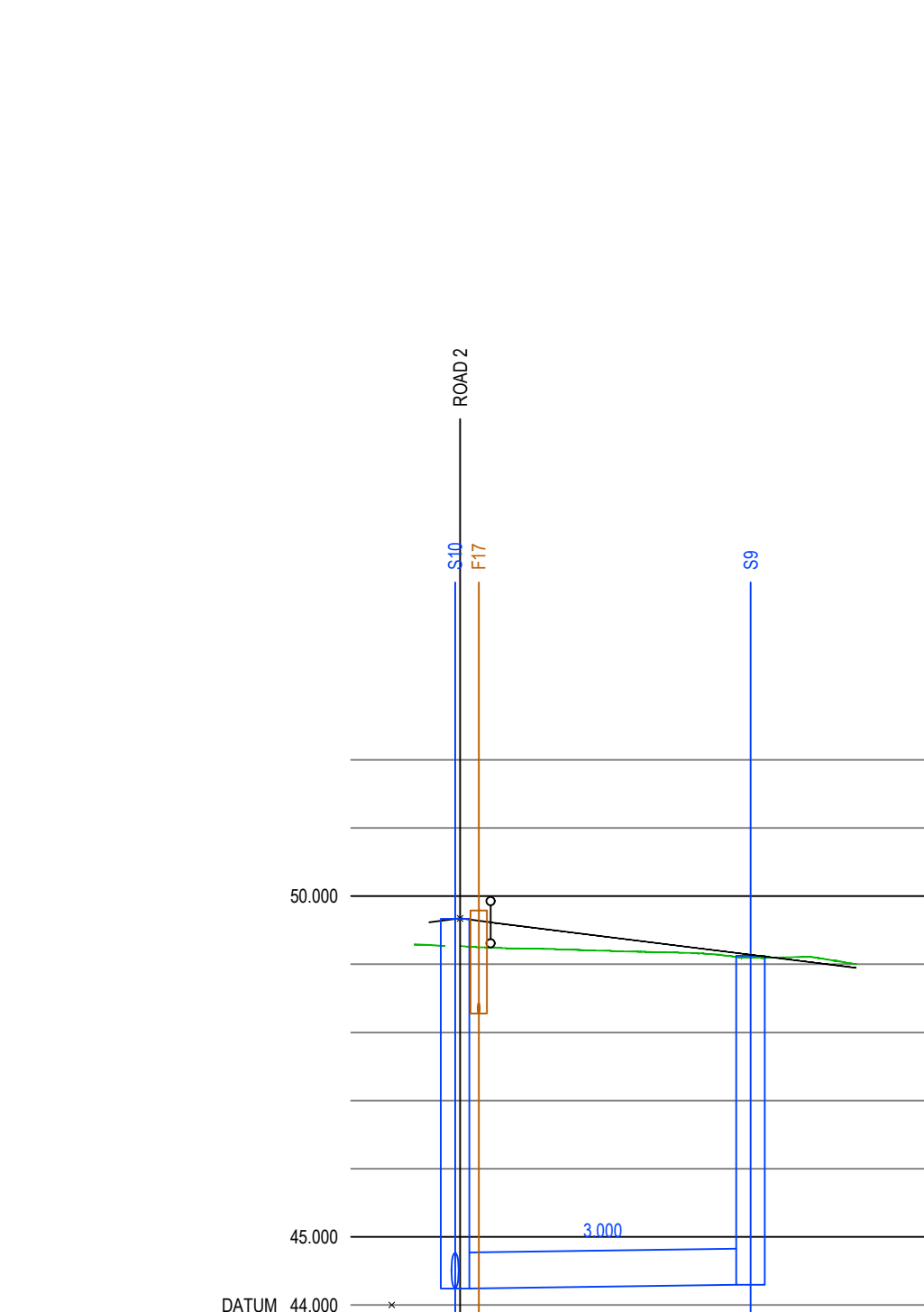
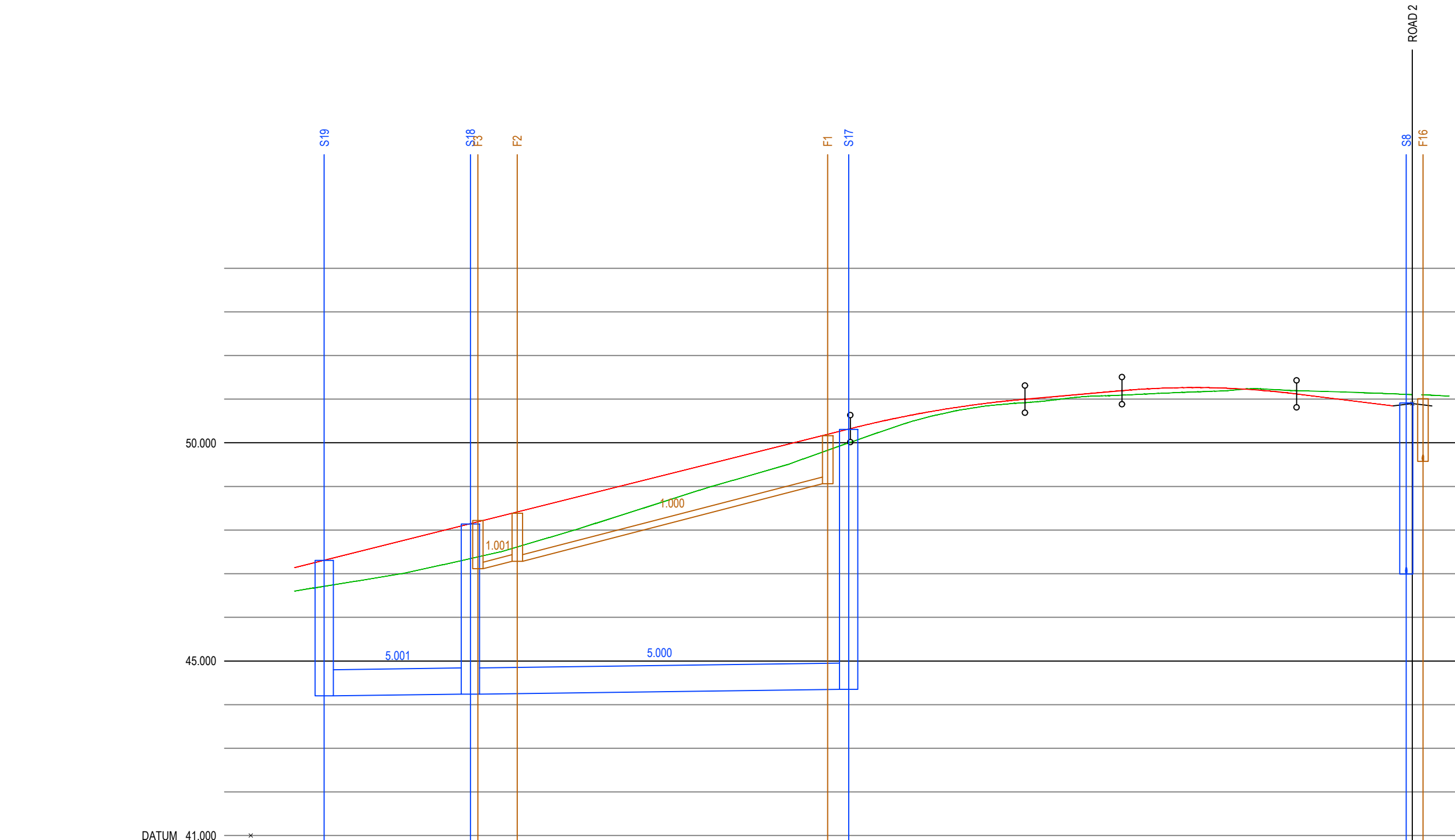




CHAINAGE	-0.384 10.000 2.940 6.789 10.000 20.000 21.000 20.049
EXISTING GROUND LEVEL	49.287 48.616 48.422 48.172 48.946 49.001
ALIGNMENT LEVEL	48.616 48.422 48.172 48.946 49.001
VERTICAL ALIGNMENT	G= -2.500% 1: -40.0
HORIZONTAL ALIGNMENT	
LEFT HAND CHANNEL	48.447 48.366 48.241 48.116 48.991 48.890
RIGHT HAND CHANNEL	48.447 48.366 48.241 48.116 48.991 48.890
CROSSFALLS	LH=2.50% RH=2.50%
STORMWATER COVER LEVEL	CL 49.864 IL 44.245 CL 49.822 IL 44.320
STORMWATER DETAILS	Pipe 3.000 Dia 305 Circular CONC 1 in 394 21.687
FOULWATER COVER LEVEL	CL 49.798
FOULWATER DETAILS	



CHAINAGE	0.000 3.403 10.000 20.000 25.503 26.992 30.000 40.000 50.000 60.000 63.479 65.000 70.000 75.000 80.000 82.503 84.000 90.000 94.000 100.000 103.015 105.000 110.000 114.779 120.000 121.267 122.500 127.945 128.036
EXISTING GROUND LEVEL	47.140 47.640 48.140 48.640 48.140 48.506 48.640 49.128 49.752 50.324 50.397 50.608 50.786 50.924 50.999 51.110 51.050 51.110 51.256 51.286 51.261 51.251 51.214 51.238 51.118 50.988 51.166 51.101
ALIGNMENT LEVEL	47.140 47.640 48.140 48.640 48.140 48.506 48.640 49.128 49.752 50.324 50.397 50.608 50.786 50.924 50.999 51.110 51.050 51.110 51.256 51.286 51.261 51.251 51.214 51.238 51.118 50.988 51.166 51.101
VERTICAL ALIGNMENT	G= 5.000% 1: 20.0 L= 20.000 KF= -6.15385 G= 1.750% 1: 57.1 L= 20.000 KF= -4.70588 G= -2.500% 1: -40.0
HORIZONTAL ALIGNMENT	R= 12.000
LEFT HAND CHANNEL	48.433 48.594 48.834 48.084 48.334 48.584 48.834 50.084 50.332 50.551 50.730 50.888 50.996 51.054 51.141 51.200 51.205 51.157 51.057 50.932 50.899
RIGHT HAND CHANNEL	48.433 48.594 48.834 48.084 48.334 48.584 48.834 50.084 50.332 50.551 50.730 50.888 50.996 51.054 51.141 51.200 51.205 51.157 51.057 50.932 50.899
CROSSFALLS	LH=2.50% RH=2.50%
STORMWATER COVER LEVEL	CL 47.304 IL 44.200 CL 48.141 IL 44.242 IL 44.242 CL 49.308 IL 44.350 CL 50.910
STORMWATER DETAILS	Pipe 5.001 Dia 600 Circular CONC 1 in 399 16.748 Pipe 5.000 Dia 600 Circular CONC 1 in 401 43.328
FOULWATER COVER LEVEL	CL 48.221 CL 48.388 IL 47.226 IL 47.226 CL 49.163 IL 49.864 CL 51.009
FOULWATER DETAILS	Pipe 1.000 Dia 150 Circular PLAS 1 in 37 6.396 Pipe 1.000 Dia 150 Circular PLAS 1 in 20 35.560

GENERAL NOTES

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS
- ALL PROPRIETARY BUILDING SYSTEMS i.e. LINTELS, P.C FLOORS, DECKING Etc. TO BE INSTALLED / ERECTED IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS / DETAILS CONTRACTOR TO REFER TO AGREEMENT / CERTIFICATE SPECIFICATIONS / RECOMMENDATIONS
- FOR ALL SETTING OUT REFER TO ARCHITECTS DRAWINGS
- MORTAR BELOW AND ABOVE GROUND TO BE 1:1:2:4
- CONCRETE STRENGTHS TO BE:

MASS CONCRETE TRENCH FILL	GRADE 30
MAX AGGREGATE	20mm
MINIMUM CEMENT	300 Kg/m ³
FREE WATER / CEMENT	0.60

NOTE - CONCRETE DESIGN MIXES ARE TO RESIST CLASS DS1 / AC1 COVER TO REINFORCEMENT TO BE 40mm.
- SUPERSTRUCTURE DESIGN DETAIL AND SPECIFICATION TO BE IN ACCORDANCE WITH SPECIALIST DRAWINGS AND SPECIFICATIONS
- ALL FOUNDATIONS ARE TO BE TAKEN DOWN ONTO STIFF CLAY WITH BEARING CAPACITY OF 100 KN per Sq M ALL FOUNDATIONS ARE TO BE TO APPROVAL OF LOCAL AUTHORITY BUILDING INSPECTOR AND AJP CONTRACTOR IS TO MAKE REFERENCE TO SUTCLIFFE SITE INVESTIGATION REPORT FOR SITE GROUND CONDITIONS, STRATA LEVELS AND CONTAMINATION RECOMMENDATIONS AND REQUIREMENTS
- ALL DPM's & DPC's AND WATERPROOFING/ WEATHERING DETAILS TO BE IN ACCORDANCE WITH ARCHITECTS AND SPECIALISTS DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND SERVICES THAT MAY EXIST AND TO DIVERT THEM IF NECESSARY PRIOR TO COMMENCEMENT OF THE WORKS.
- ALL STRUCTURAL WORKS TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE DETAILS GIVEN BY THE ALAN JOHNSTON PARTNERSHIP. THE ENGINEER IS TO BE ADVISED OF ANY SIGNIFICANT VARIATIONS PRIOR TO IMPLEMENTATION.

A SUMMARY OF CAPPING LAYER THICKNESS AND OR INCREASED SUB-BASE THAT WILL BE REQUIRED IS DETAILED IN THE TABLE BELOW:

SUBGRADE CBR (%)	CAPPING LAYER THICKNESS (mm)	SUB-BASE LAYER THICKNESS (mm)	KMBC STANDARD MINIMUM SUB-BASE THICKNESS (mm)
<2	600	150	-
2 - 2.5	450	150	-
>2.5 - 3	-	-	350
>3 - 4	-	-	300
>4 - 5	-	-	260
>5	-	-	230

ALL WORKS TO BE IN ACCORDANCE WITH THE HALSNEAD DESIGN GUIDE AND KNOWSLEY COUNCIL STANDARD DETAILS

ALL DRAINAGE IS TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH UNITED UTILITIES PLC 'A DEVELOPERS GUIDE TO WASTEWATER ADOPTIONS' AND 'SEWERS FOR ADOPTION 6TH EDITION' - (MARCH 2006)

ALL ADOPTABLE MAIN DRAINAGE IS TO BE SUBJECT TO A SECTION 104 AGREEMENT BETWEEN THE DEVELOPER AND UNITED UTILITIES

PRELIMINARY SUBJECT TO
S38 APPROVAL

P06	24.09.2024	UPDATED TO SUIT LATEST LEVELS DESIGN AND KMBC COMMENTS	LS	KOB	KOB
P05	07.06.2024	UPDATED TO SUIT HALSNEAD DESIGN GUIDE	LS	KOB	KOB
P04	11.12.2023	UPDATED TO SUIT LATEST DESIGN	KB	LS	KOB
P03	02.09.2022	HIGHWAY SECTIONS & DRAINAGE UPDATED TO SUIT LATEST DESIGN	KB	LS	KOB
P02	22.07.2022	ADDITIONAL ROAD ADDED	KB	LS	KOB
P01	02.12.2021	PRELIMINARY ISSUE	LS	KOB	KOB
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:		PRELIMINARY									
CLIENT:											
VISTRY PARTNERSHIPS											
ARCHITECT:											
MPSL											
PROJECT:											
HALSNEAD GARDEN VILLAGE LICKERS LANE WHISTON											
TITLE:											
S38 HIGHWAY LONGSECTIONS											
SHEET 2											
STATUS:	PROJECT No.	PROJECT	ORIGINATOR	VOLU/S	LEVEL	TYPE	ROLE	DRAWING No.	REV:		
S2	221-130	HLL - AJP - XX - 00 - DR -			C - 1511			P06			
SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:						
1:100 x 1:500	LS	LS	KOB	KOB	NOV 2021						



consulting engineers

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