



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SPECIFIC RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE TO THE DESIGN HAZARD LOG).

WORKING WITHIN LIVE TRAFFIC AND UNDER TRAFFIC MANAGEMENT

UNDERGROUND UTILITIES, ELECTRICITY

WORKING WITH HAZARDOUS MATERIAL (ASPHALT)

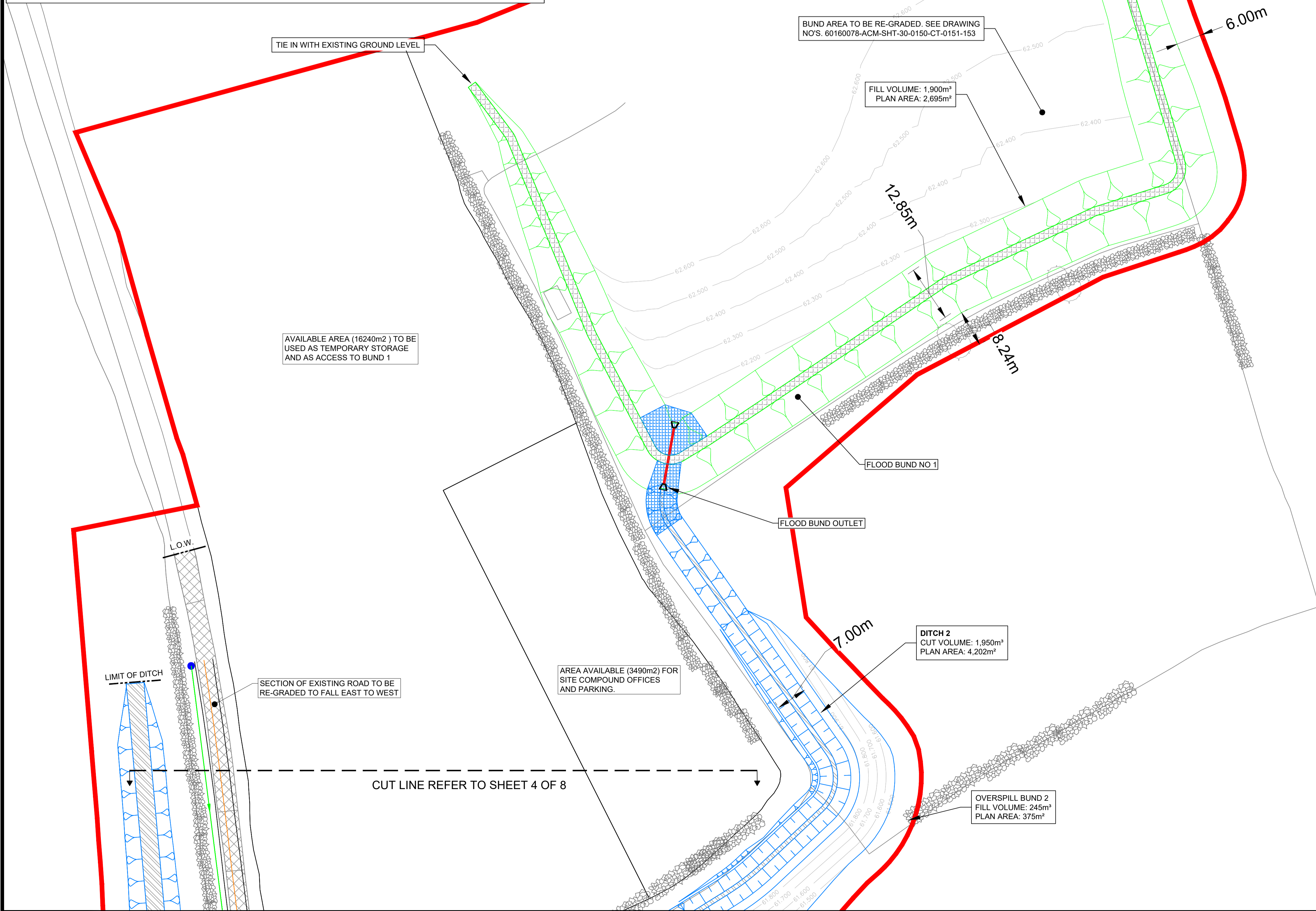
DITCH EXCAVATIONS

KEY:

- PLANNING APPLICATION BOUNDARY
- PROPOSED BUND
- PROPOSED DITCH
- ROAD TO BE RE-GRADED
- FOOTWAY TO BE RE-GRADED
- PROPOSED CENTER LINE AND CHAINAGE MARKER
- L.O.W. LIMIT OF WORK
- EXISTING VEGETATION (LOCATION INDICATIVE)
- EXISTING HEDGE (LOCATION INDICATIVE)
- PROPOSED HEDGE
- PROPOSED HALF BATTERED 75mm UPSTAND KERB
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- PROPOSED FILTER DRAIN
- EXISTING GULLY LOCATION
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Project Management Initials: Designer: RD Checked: MH Approved: ATZ 850 A1 89mm x 841mm



AVAILABLE AREA (16240m²) TO BE USED AS TEMPORARY STORAGE AND AS ACCESS TO BUND 1

AREA AVAILABLE (3490m²) FOR SITE COMPOUND OFFICES AND PARKING.

DITCH 2 CUT VOLUME: 1,950m³ PLAN AREA: 4,202m²

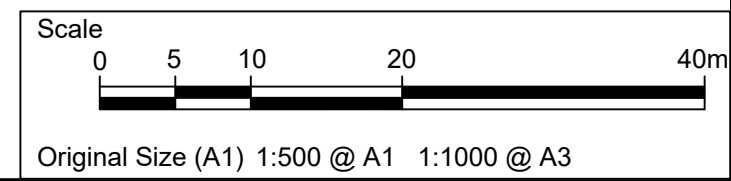
OVERSPILL BUND 2 FILL VOLUME: 245m³ PLAN AREA: 375m²

BUND AREA TO BE RE-GRADED. SEE DRAWING NO'S. 60160078-ACM-SHT-30-0150-CT-0151-153

FILL VOLUME: 1,900m³ PLAN AREA: 2,695m²

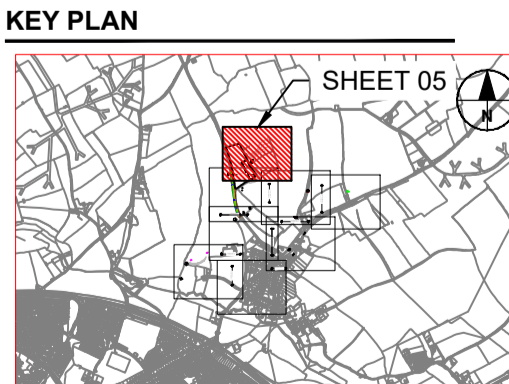
SECTION OF EXISTING ROAD TO BE RE-GRADED TO FALL EAST TO WEST

CUT LINE REFER TO SHEET 4 OF 8



STATUS
DETAILED DESIGN

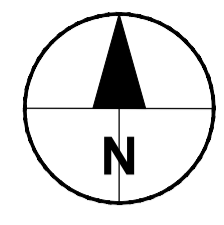
ISSUE/REVISION		
NO	DATE	DESCRIPTION
B	26/02/2021	DETAILED DESIGN
A	16/12/2020	DRAFT DETAILED DESIGN
IR		



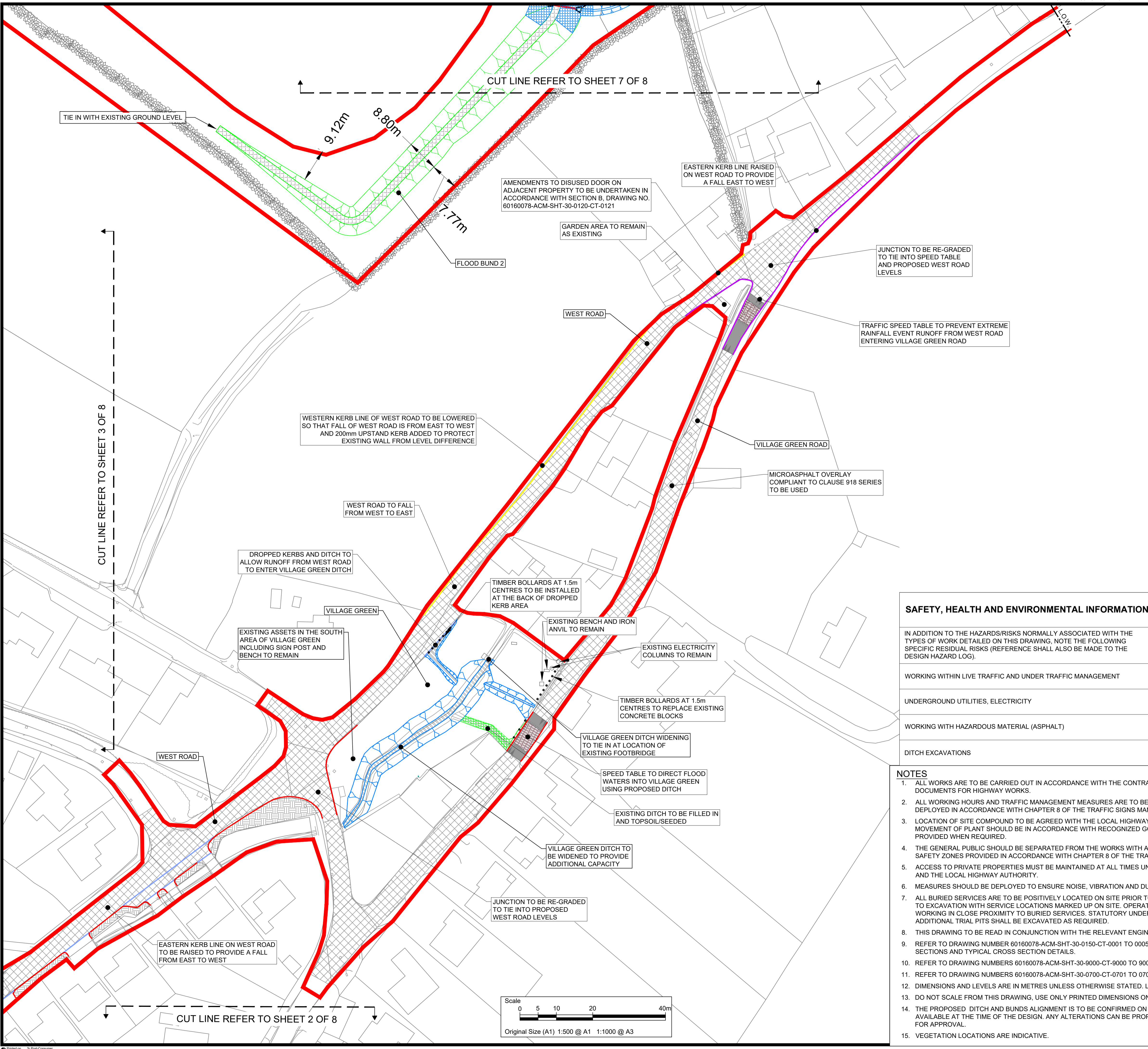
PROJECT NUMBER
60160078

SHEET TITLE
LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
GENERAL ARRANGEMENT PLAN
SHEET 5 OF 8

SHEET NUMBER
60160078-ACM-SHT-30-0100-CT-0105



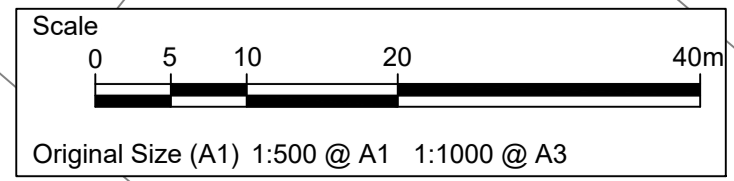
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CUT LINE REFER TO SHEET 7 OF 8

CUT LINE REFER TO SHEET 3 OF 8

CUT LINE REFER TO SHEET 2 OF 8



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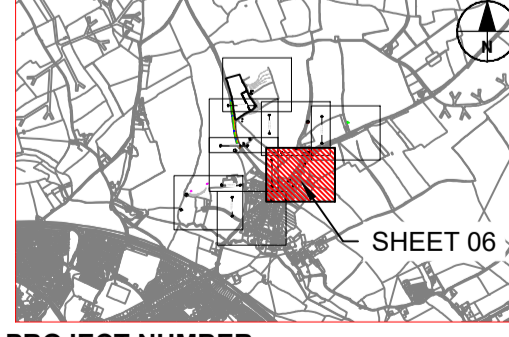
STATUS

DETAILED DESIGN

ISSUE/REVISION

IR	DATE	DESCRIPTION
B	26/02/2021	DETAILED DESIGN
A	16/12/2020	DRAFT DETAILED DESIGN

KEY PLAN



PROJECT NUMBER

60160078

SHEET TITLE

LLANMAES VILLAGE FLOOD ALLEVIATION SCHEME GENERAL ARRANGEMENT PLAN SHEET 6 OF 8

SHEET NUMBER

60160078-ACM-SHT-30-0100-CT-0106



Approved: A.Tz
Checked: MH
Designer: RD
Project Management Initials:
Last saved by: JONATHAN BLISSETT (2021-03-02) Last Plotter: 2021-03-02
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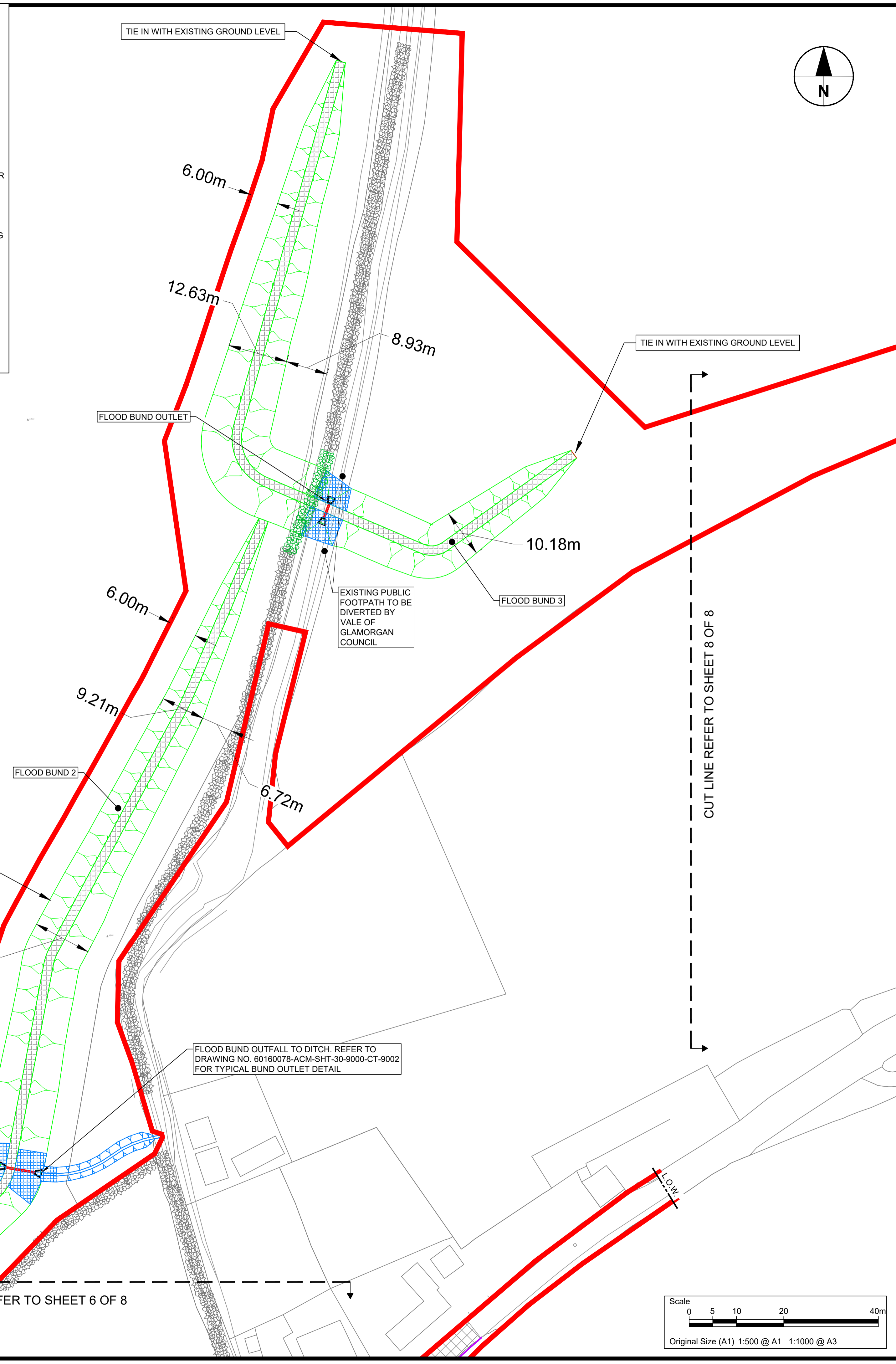
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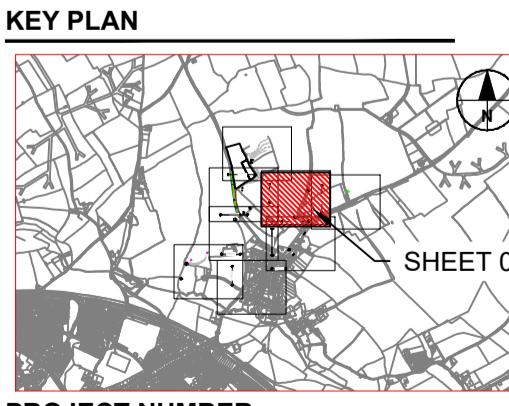
CUT LINE REFER TO SHEET 8 OF 8

CUT LINE REFER TO SHEET 6 OF 8

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DETAILED DESIGN

ISSUE/REVISION

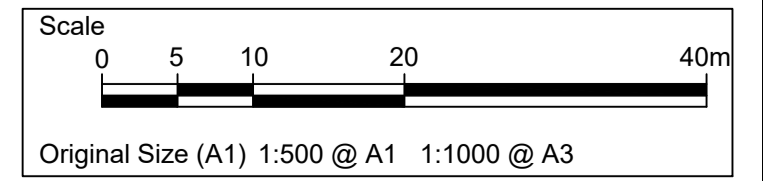
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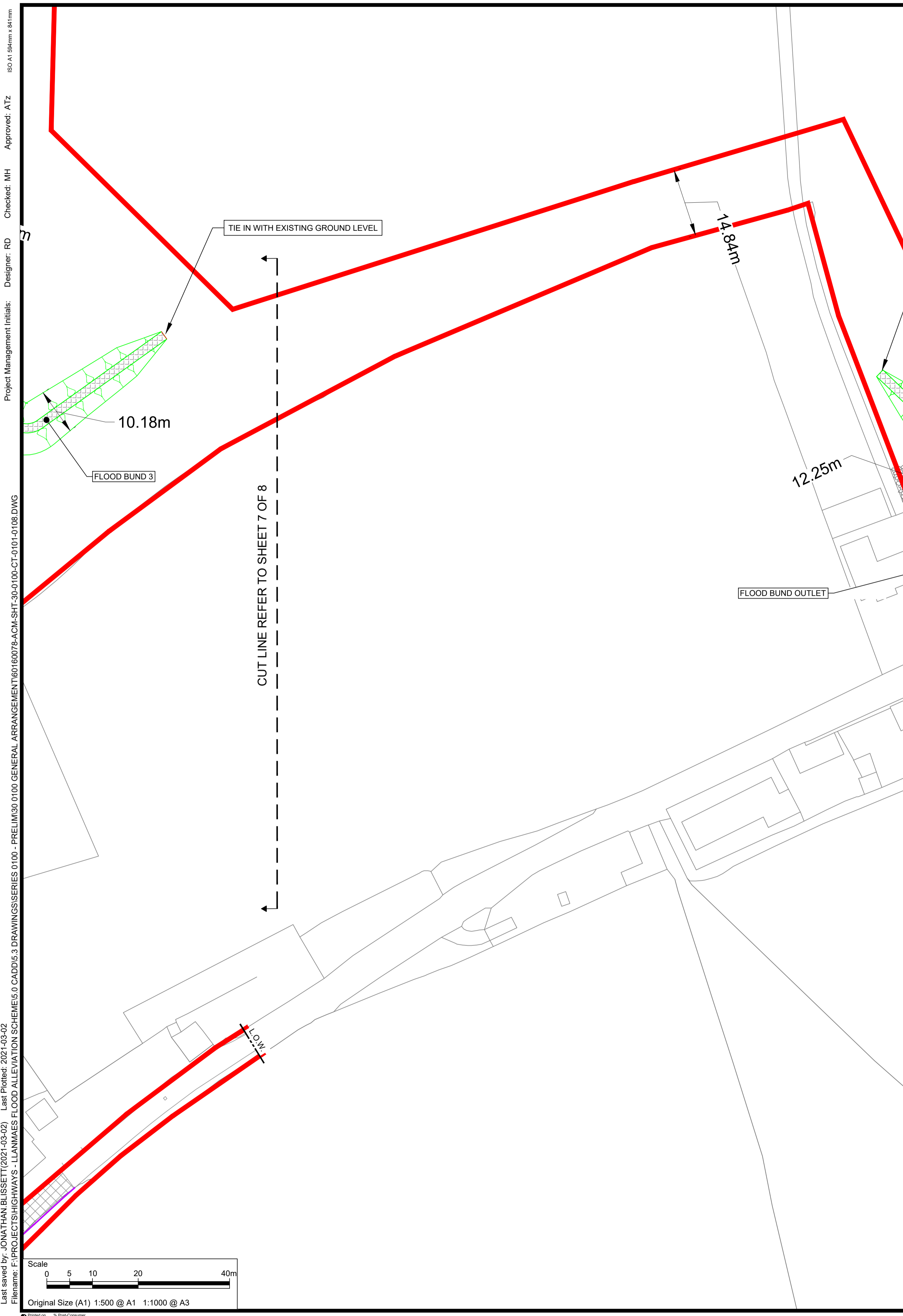
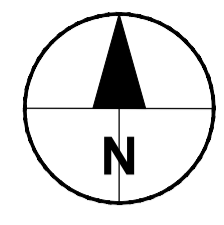


PROJECT NUMBER
60160078

SHEET TITLE
LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
GENERAL ARRANGEMENT PLAN
SHEET 7 OF 8

SHEET NUMBER
60160078-ACM-SHT-30-0100-CT-0107





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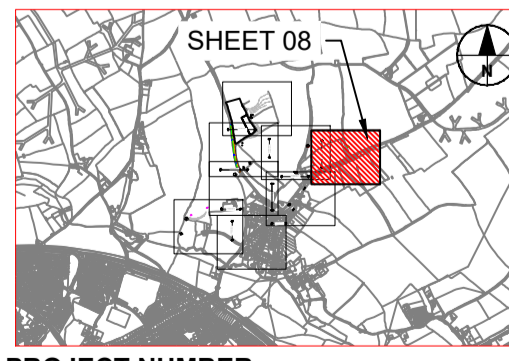
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KEY PLAN



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60160078

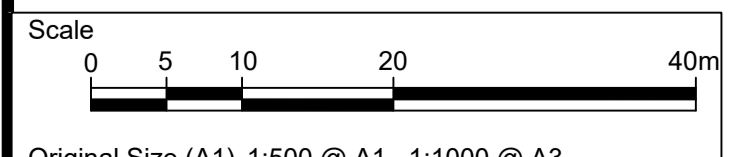
SHEET TITLE

LLANMAES VILLAGE
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SHEET 8 OF 8

SHEET NUMBER

60160078-ACM-SHT-30-0100-CT-0108

Project Management Initials: Designer: RD Checked: MH Approved: ATz
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Original Size (A1) 1:500 @ A1 1:1000 @ A3

Appendix B Groundsure Report

297936.325589712, 170070.4937520228

Order Details

Date: 15/03/2021
Your ref: 60160078_1462969_JC
Our Ref: GS-7656915
Client: Aecom Infrastructure and Environment UK Ltd

Site Details

Location: 297856 169884
Area: 12.45 ha
Authority: [Bro Morgannwg - Vale of Glamorgan Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	1	6	6	6	-
14	1.2	<u>Historical tanks</u>	0	0	0	6	-
15	1.3	<u>Historical energy features</u>	0	0	5	6	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
17	2.1	<u>Historical industrial land uses</u>	1	11	6	13	-
19	2.2	<u>Historical tanks</u>	0	0	0	9	-
19	2.3	<u>Historical energy features</u>	0	0	8	12	-
20	2.4	Historical petrol stations	0	0	0	0	-
20	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
21	3.1	Active or recent landfill	0	0	0	0	-
21	3.2	Historical landfill (BGS records)	0	0	0	0	-
22	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
22	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
22	3.5	Historical waste sites	0	0	0	0	-
22	3.6	Licensed waste sites	0	0	0	0	-
22	3.7	<u>Waste exemptions</u>	0	11	0	1	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
25	4.1	<u>Recent industrial land uses</u>	0	2	2	-	-
26	4.2	Current or recent petrol stations	0	0	0	0	-
26	4.3	Electricity cables	0	0	0	0	-
26	4.4	Gas pipelines	0	0	0	0	-
26	4.5	Sites determined as Contaminated Land	0	0	0	0	-



27	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
27	4.7	Regulated explosive sites	0	0	0	0	-
27	4.8	Hazardous substance storage/usage	0	0	0	0	-
27	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
27	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
28	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
28	4.12	Radioactive Substance Authorisations	0	0	0	0	-
28	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
28	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
28	4.15	Pollutant release to public sewer	0	0	0	0	-
29	4.16	List 1 Dangerous Substances	0	0	0	0	-
29	4.17	List 2 Dangerous Substances	0	0	0	0	-
29	4.18	<u>Pollution Incidents (EA/NRW)</u>	1	0	1	2	-
30	4.19	Pollution inventory substances	0	0	0	0	-
30	4.20	Pollution inventory waste transfers	0	0	0	0	-
30	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m	
31	5.1	<u>Superficial aquifer</u>	Identified (within 500m)					
33	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)					
35	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)					
37	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)					
37	5.5	Groundwater vulnerability- local information	None (within 0m)					
38	5.6	<u>Groundwater abstractions</u>	0	0	0	0	1	
39	5.7	<u>Surface water abstractions</u>	0	0	0	0	1	
39	5.8	Potable abstractions	0	0	0	0	0	
40	5.9	Source Protection Zones	0	0	0	0	-	
40	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-	

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
41	6.1	<u>Water Network (OS MasterMap)</u>	11	5	17	-	-



44	6.2	<u>Surface water features</u>	1	1	2	-	-
44	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
45	6.4	<u>WFD Surface water bodies</u>	0	1	0	-	-
45	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
46	7.1	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	High (within 50m)				
47	7.2	<u>Historical Flood Events</u>	0	1	0	-	-
47	7.3	Flood Defences	0	0	0	-	-
47	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
47	7.5	<u>Flood Storage Areas</u>	0	0	1	-	-
49	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
50	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
51	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
53	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
54	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
55	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
55	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
55	10.4	Special Protection Areas (SPA)	0	0	0	0	0
55	10.5	National Nature Reserves (NNR)	0	0	0	0	0
56	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
56	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	12
57	10.8	Biosphere Reserves	0	0	0	0	0
57	10.9	Forest Parks	0	0	0	0	0
57	10.10	Marine Conservation Zones	0	0	0	0	0
57	10.11	Green Belt	0	0	0	0	0
57	10.12	Proposed Ramsar sites	0	0	0	0	0



58	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
58	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
58	10.15	Nitrate Sensitive Areas	0	0	0	0	0
58	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
59	10.17	SSSI Impact Risk Zones	0	-	-	-	-
59	10.18	SSSI Units	0	0	0	0	0

Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
60	11.1	World Heritage Sites	0	0	0	-	-
61	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
61	11.3	National Parks	0	0	0	-	-
61	11.4	Listed Buildings	0	0	8	-	-
62	11.5	Conservation Areas	1	0	0	-	-
62	11.6	Scheduled Ancient Monuments	0	0	0	-	-
63	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
64	12.1	Agricultural Land Classification	Grade 3b (within 250m)				
65	12.2	Open Access Land	0	0	0	-	-
65	12.3	Tree Felling Licences	0	0	0	-	-
65	12.4	Environmental Stewardship Schemes	0	0	0	-	-
65	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
66	13.1	Priority Habitat Inventory	0	0	0	-	-
66	13.2	Habitat Networks	0	0	0	-	-
66	13.3	Open Mosaic Habitat	0	0	0	-	-
66	13.4	Limestone Pavement Orders	0	0	0	-	-

Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
67	14.1	10k Availability	Identified (within 500m)				
68	14.2	Artificial and made ground (10k)	0	0	0	0	-
69	14.3	Superficial geology (10k)	1	0	0	1	-



70	14.4	Landslip (10k)	0	0	0	0	-
71	14.5	<u>Bedrock geology (10k)</u>	2	0	0	0	-
72	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
73	15.1	<u>50k Availability</u>	Identified (within 500m)				
74	15.2	Artificial and made ground (50k)	0	0	0	0	-
74	15.3	Artificial ground permeability (50k)	0	0	-	-	-
75	15.4	<u>Superficial geology (50k)</u>	1	0	0	1	-
76	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
76	15.6	Landslip (50k)	0	0	0	0	-
76	15.7	Landslip permeability (50k)	None (within 50m)				
77	15.8	<u>Bedrock geology (50k)</u>	1	0	0	0	-
78	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
78	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
79	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
80	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
81	17.2	<u>Running sands</u>	Very low (within 50m)				
83	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
84	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
85	17.5	<u>Landslides</u>	Low (within 50m)				
87	17.6	<u>Ground dissolution of soluble rocks</u>	Low (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
89	18.1	Natural cavities	0	0	0	0	-
90	18.2	BritPits	0	0	0	0	-
90	18.3	<u>Surface ground workings</u>	4	1	16	-	-
91	18.4	Underground workings	0	0	0	0	0
91	18.5	Historical Mineral Planning Areas	0	0	0	0	-



91	18.6	Non-coal mining	0	0	0	0	0
92	18.7	Mining cavities	0	0	0	0	0
92	18.8	JPB mining areas	None (within 0m)				
92	18.9	Coal mining	None (within 0m)				
92	18.10	Brine areas	None (within 0m)				
92	18.11	Gypsum areas	None (within 0m)				
93	18.12	Tin mining	None (within 0m)				
93	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
94	19.1	Radon	Between 3% and 5% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
96	20.1	BGS Estimated Background Soil Chemistry	6	8	-	-	-
97	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
97	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
98	21.1	Underground railways (London)	0	0	0	-	-
98	21.2	Underground railways (Non-London)	0	0	0	-	-
98	21.3	Railway tunnels	0	0	0	-	-
98	21.4	Historical railway and tunnel features	0	0	0	-	-
98	21.5	Royal Mail tunnels	0	0	0	-	-
99	21.6	Historical railways	0	0	0	-	-
99	21.7	Railways	0	0	0	-	-
99	21.8	Crossrail 1	0	0	0	0	-
99	21.9	Crossrail 2	0	0	0	0	-
99	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 18/09/2019

Site Area: 12.45ha

