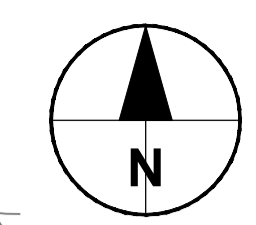


Appendix B – Proposed Option Design

ISO A1 594mm x 841mm
Approved: RM
Checked: ATZ
Designer: RD
Project Management Initials:
Last saved by: RHYS DAVIES(2021-03-03) Last Plotted: 2021-03-03
Filename: P:\PROJECTS\HIGHWAY 5 - LLANMAES FLOOD ALLEVIATION SCHEME\B.0 CADD\B.0 DRAWINGS\SERIES 0000 - INTRO\30 0000 GENERAL\60160078-ACM-SHT-30-0000-CT-0001 (RD VERSION).DWG



PROJECT
**LLANMAES VILLAGE
FLOOD ALLEVIATION
SCHEME**

CLIENT
VALE OF GLAMORGAN COUNCIL



CONSULTANT
AECOM
1 CALLAGHAN SQUARE
CARDIFF
CF10 5BT
TEL: (029) 20674600
FAX: (029) 20674699

- NOTES**
1. TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION / INFORMATION.
 2. ALL LEVELS RELATE TO ORDNANCE DATUM.
 3. DO NOT SCALE FROM THIS DRAWING. USE PRINTED DIMENSIONS ONLY.

LEGEND

01	SHEET LAYOUT AND NUMBER
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STATUS
DETAILED DESIGN

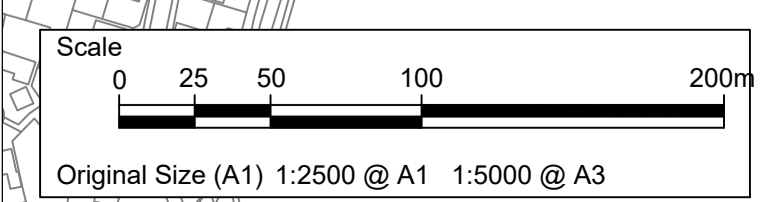
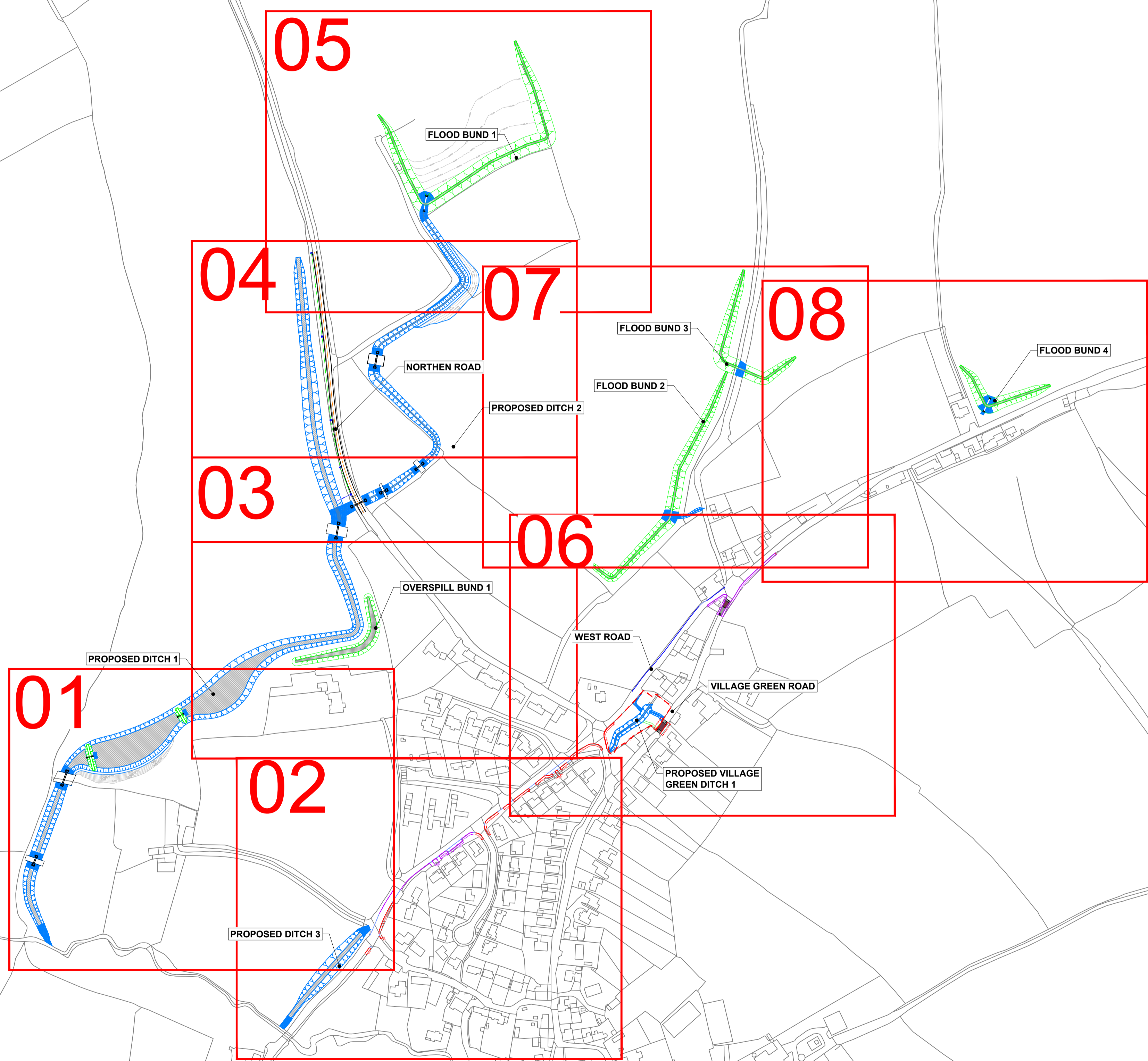
ISSUE/REVISION

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

PROJECT NUMBER
60160078

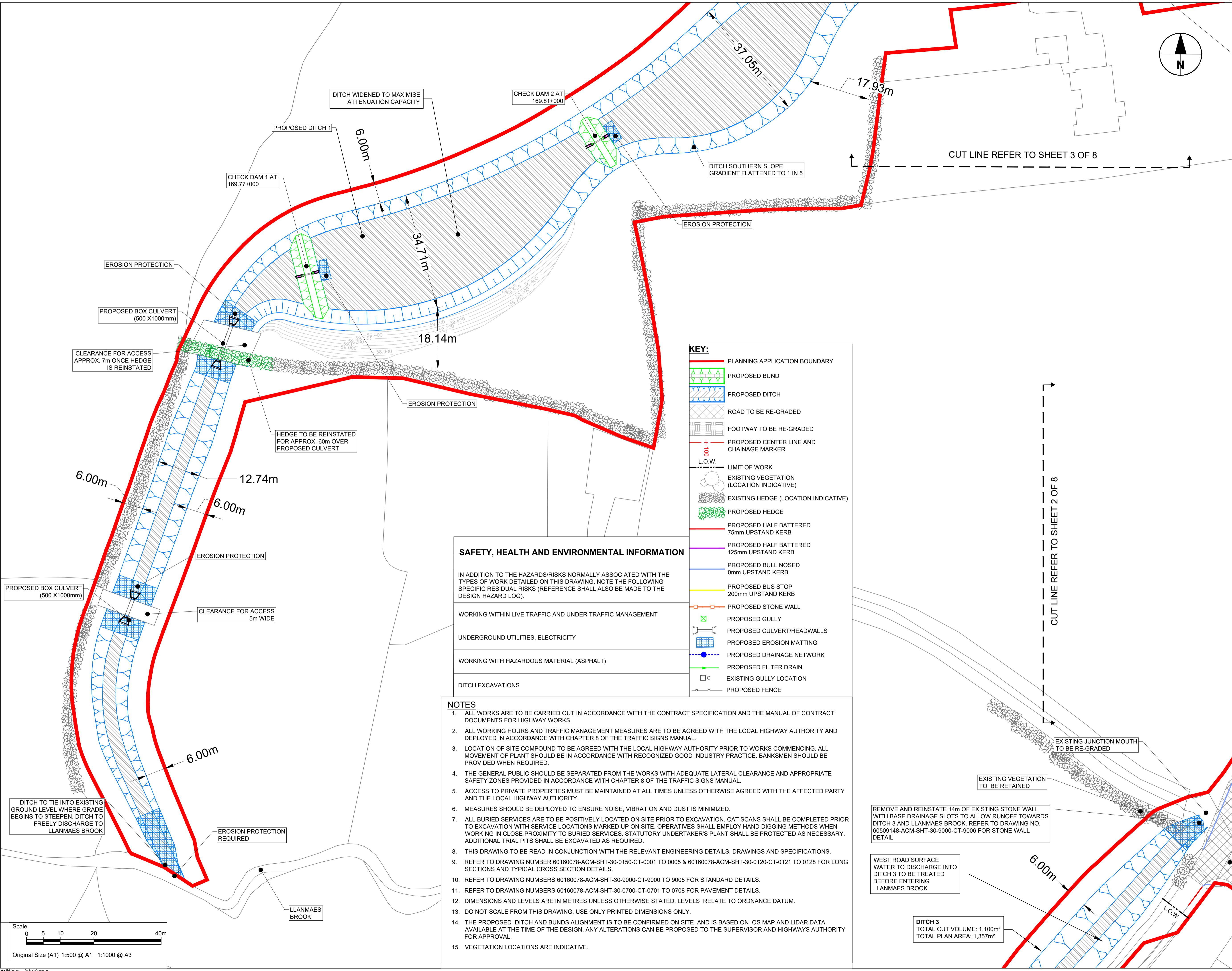
SHEET TITLE
LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
LOCATION PLAN
SCALE: 1:2500

SHEET NUMBER
60160078-ACM-SHT-30-0000-CT-0001





Approved: ATZ
Checked: MH
Designer: RD
Project Management Initials:
Last saved by: JONATHAN BLISSETT (2021-03-02)
Filename: F:\PROJECTS\HIGHWAYS - LLANMAES FLOOD ALLEVIATION SCHEMES\0 CADDD\5.3 DRAWINGS\SERIES 0100 - PRELIM\30 0100 GENERAL ARRANGEMENT\60160078-ACM-SHT-30-0100-CT-01-01-0108.DWG



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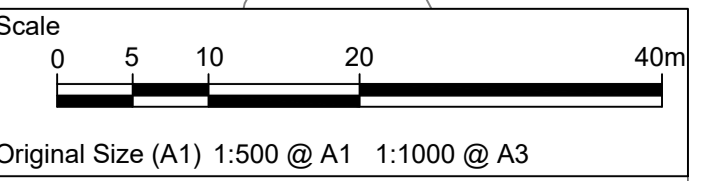
- PLANNING APPLICATION BOUNDARY
- PROPOSED BUND
- PROPOSED DITCH
- ROAD TO BE RE-GRADED
- FOOTWAY TO BE RE-GRADED
- PROPOSED CENTER LINE AND CHAINAGE MARKER
- L.O.W. LIMIT OF WORK
- EXISTING VEGETATION (LOCATION INDICATIVE)
- EXISTING HEDGE (LOCATION INDICATIVE)
- PROPOSED HEDGE
- PROPOSED HALF BATTERED 75mm UPSTAND KERB
- PROPOSED HALF BATTERED 125mm UPSTAND KERB
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- PROPOSED GULLY
- PROPOSED CULVERT/HEADWALLS
- PROPOSED EROSION MATTING
- PROPOSED DRAINAGE NETWORK
- PROPOSED FILTER DRAIN
- EXISTING GULLY LOCATION
- PROPOSED FENCE

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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- WORKING WITHIN LIVE TRAFFIC AND UNDER TRAFFIC MANAGEMENT
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- WORKING WITH HAZARDOUS MATERIAL (ASPHALT)
- DITCH EXCAVATIONS

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- REFER TO DRAWING NUMBER 60160078-ACM-SHT-30-0150-CT-0001 TO 0005 & 60160078-ACM-SHT-30-0120-CT-0121 TO 0128 FOR LONG SECTIONS AND TYPICAL CROSS SECTION DETAILS.
- REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-9000-CT-9000 TO 9005 FOR STANDARD DETAILS.
- REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-0700-CT-0701 TO 0708 FOR PAVEMENT DETAILS.
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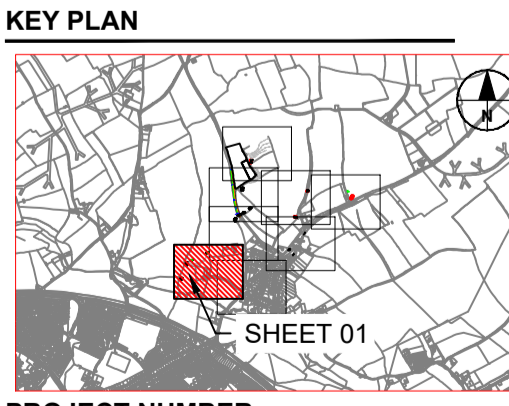


STATUS

DETAILED DESIGN

ISSUE/REVISION

NO	DATE	DESCRIPTION
B	26/02/2021	DETAILED DESIGN
A	16/12/2020	DRAFT DETAILED DESIGN
NR		

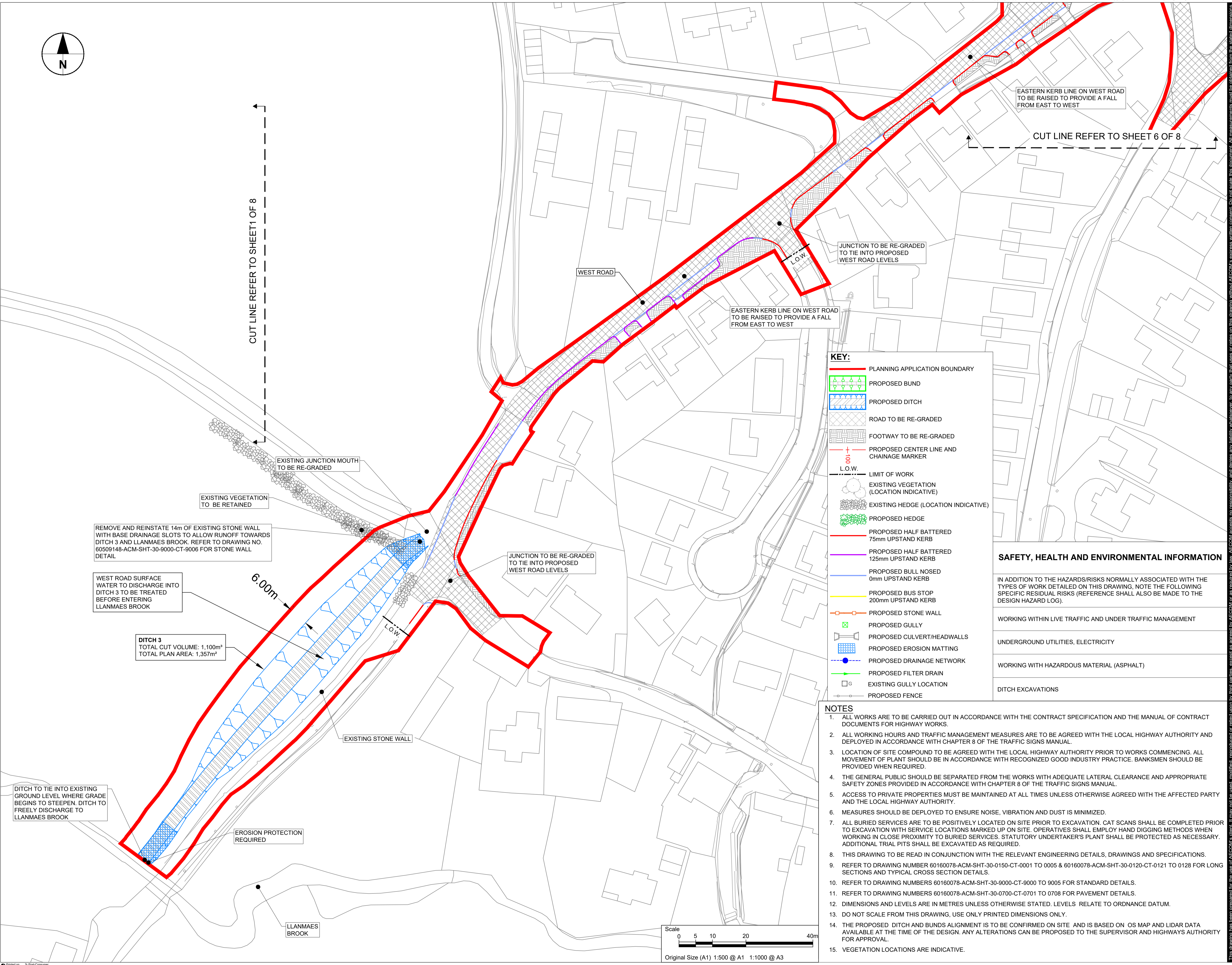
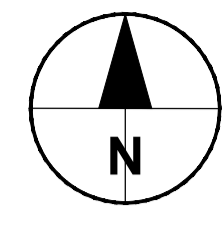


PROJECT NUMBER
60160078

SHEET TITLE
LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
GENERAL ARRANGEMENT PLAN
SHEET 1 OF 8

SHEET NUMBER
60160078-ACM-SHT-30-0100-CT-0101

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CUT LINE REFER TO SHEET 1 OF 8

CUT LINE REFER TO SHEET 6 OF 8

EASTERN KERB LINE ON WEST ROAD TO BE RAISED TO PROVIDE A FALL FROM EAST TO WEST

JUNCTION TO BE RE-GRADED TO TIE INTO PROPOSED WEST ROAD LEVELS

EASTERN KERB LINE ON WEST ROAD TO BE RAISED TO PROVIDE A FALL FROM EAST TO WEST

WEST ROAD

KEY:

- PLANNING APPLICATION BOUNDARY
- PROPOSED BUND
- PROPOSED DITCH
- ROAD TO BE RE-GRADED
- FOOTWAY TO BE RE-GRADED
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- WORKING WITH HAZARDOUS MATERIAL (ASPHALT)
- DITCH EXCAVATIONS

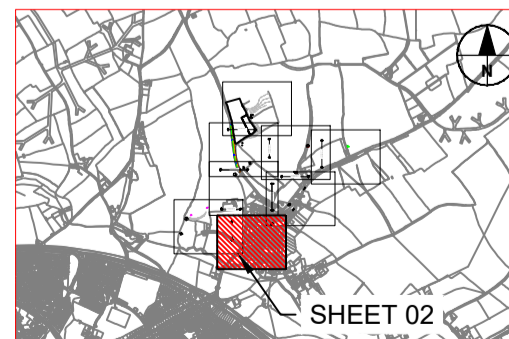
STATUS

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 2 OF 8

SHEET NUMBER
60160078-ACM-SHT-30-0100-CT-0102

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11. REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-0700-CT-0701 TO 0708 FOR PAVEMENT DETAILS.
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REMOVE AND REINSTATE 14m OF EXISTING STONE WALL WITH BASE DRAINAGE SLOTS TO ALLOW RUNOFF TOWARDS DITCH 3 AND LLANMAES BROOK. REFER TO DRAWING NO. 60509148-ACM-SHT-30-9000-CT-9006 FOR STONE WALL DETAIL.

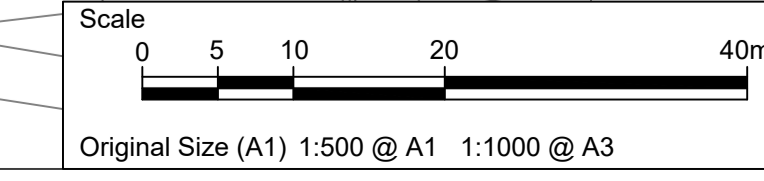
WEST ROAD SURFACE WATER TO DISCHARGE INTO DITCH 3 TO BE TREATED BEFORE ENTERING LLANMAES BROOK

DITCH 3
TOTAL CUT VOLUME: 1,100m³
TOTAL PLAN AREA: 1,357m²

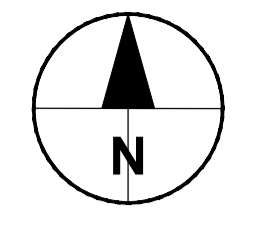
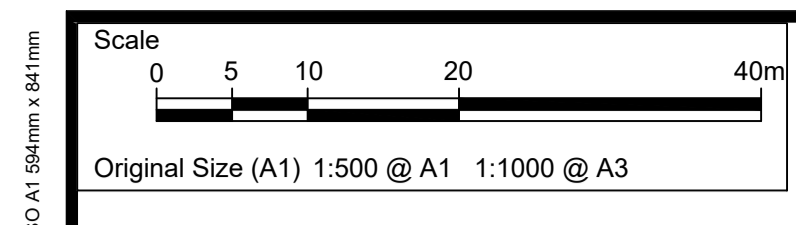
DITCH TO TIE INTO EXISTING GROUND LEVEL WHERE GRADE BEGINS TO STEEPEN. DITCH TO FREELY DISCHARGE TO LLANMAES BROOK

EROSION PROTECTION REQUIRED

LLANMAES BROOK

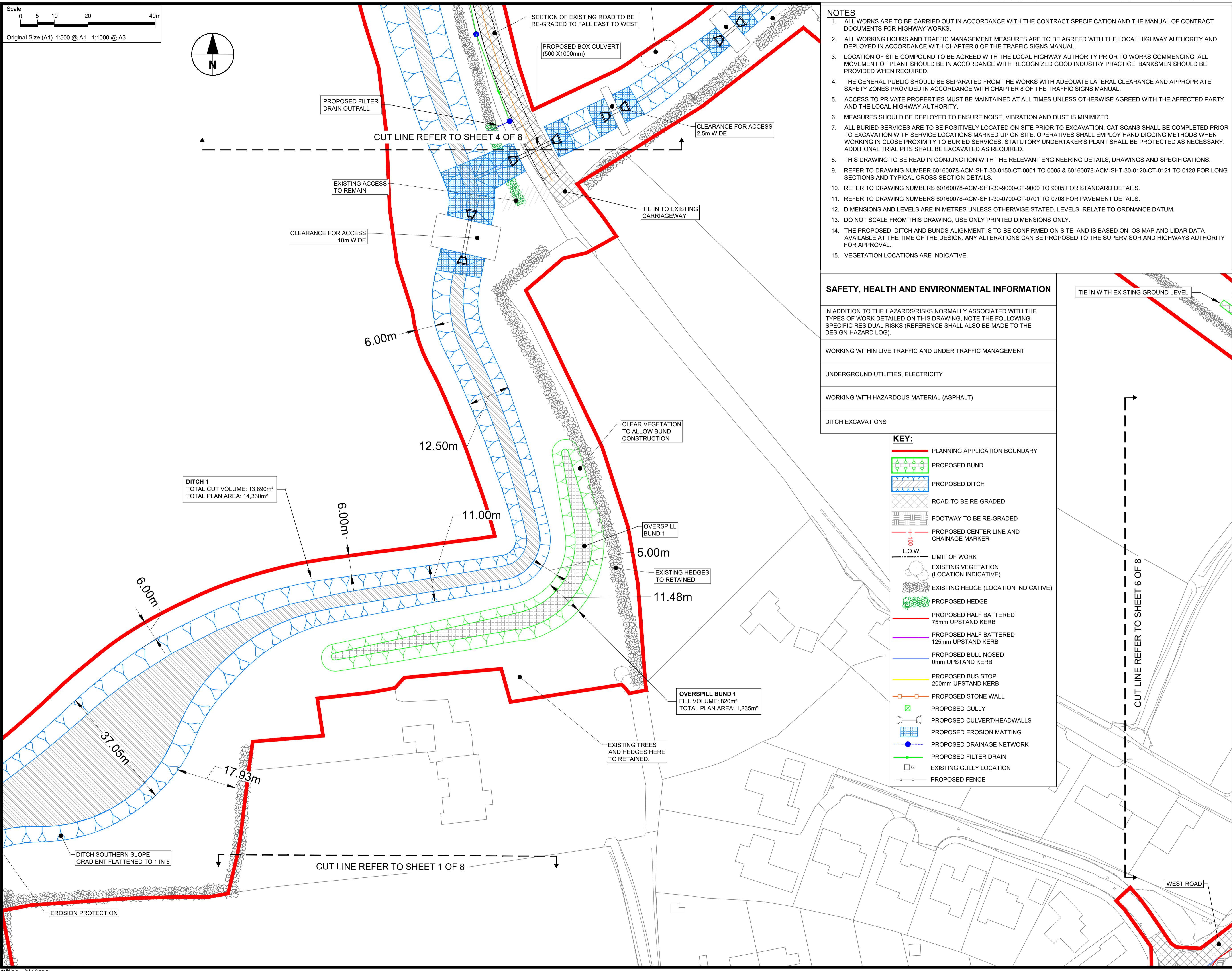


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Approved: ATZ
Checked: MH
Designer: RD
Project Management Initials:

Project Management Initials:
Last saved by: JONATHAN BLISSETT (2021-03-02) Last Printed: 2021-03-02
Filename: F:\PROJECTS\HIGHWAYS - LLANMAES FLOOD ALLEVIATION SCHEMES\0_CADD\5.3_DRAWINGS\SERIES 0100 - PRELIM\30 0100_GENERAL ARRANGEMENT\60160078-ACM-SHT-30-0100-CT-01-01-0108.DWG



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 10. REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-9000-CT-9000 TO 9005 FOR STANDARD DETAILS.
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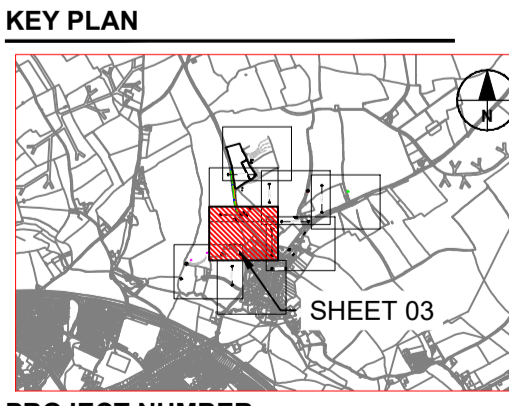
DITCH 1
TOTAL CUT VOLUME: 13,890m³
TOTAL PLAN AREA: 14,330m²

OVERSPILL BUND 1
FILL VOLUME: 820m³
TOTAL PLAN AREA: 1,235m²

STATUS
DETAILED DESIGN

ISSUE/REVISION

IR	DATE	DESCRIPTION
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PROJECT NUMBER
60160078

SHEET TITLE
LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
GENERAL ARRANGEMENT PLAN
SHEET 3 OF 8

SHEET NUMBER
60160078-ACM-SHT-30-0100-CT-0103



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WORKING WITHIN LIVE TRAFFIC AND UNDER TRAFFIC MANAGEMENT

UNDERGROUND UTILITIES, ELECTRICITY

WORKING WITH HAZARDOUS MATERIAL (ASPHALT)

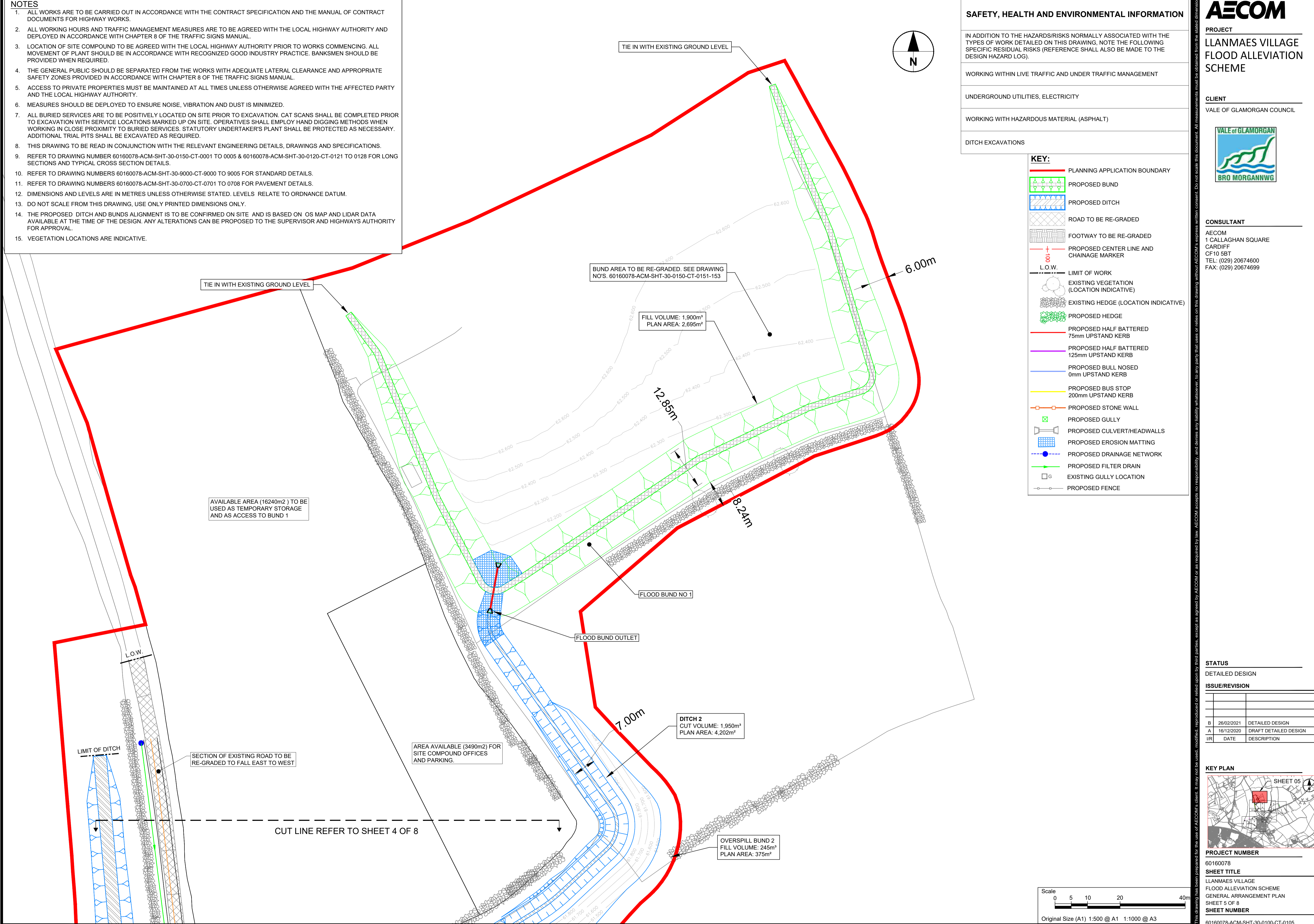
DITCH EXCAVATIONS

KEY:

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Approved: ATZ
Checked: MH
Designer: RD
Project Management Initials:
Last saved by: JONATHAN BLISSETT (2021-03-02)
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AVAILABLE AREA (16240m²) TO BE USED AS TEMPORARY STORAGE AND AS ACCESS TO BUND 1

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

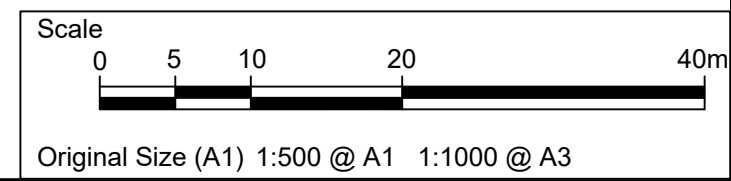
DITCH 2
CUT VOLUME: 1,950m³
PLAN AREA: 4,202m²

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

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

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

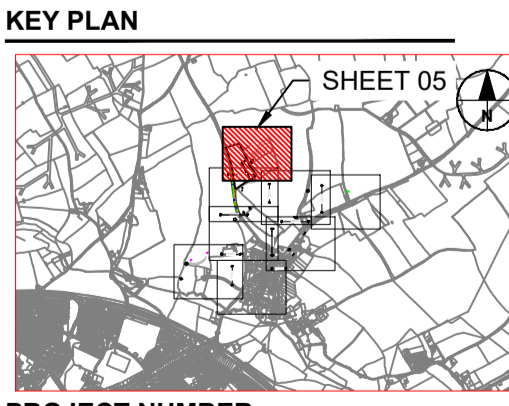
CUT LINE REFER TO SHEET 4 OF 8



STATUS
DETAILED DESIGN

ISSUE/REVISION

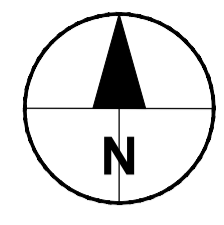
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A	16/12/2020	DRAFT DETAILED DESIGN
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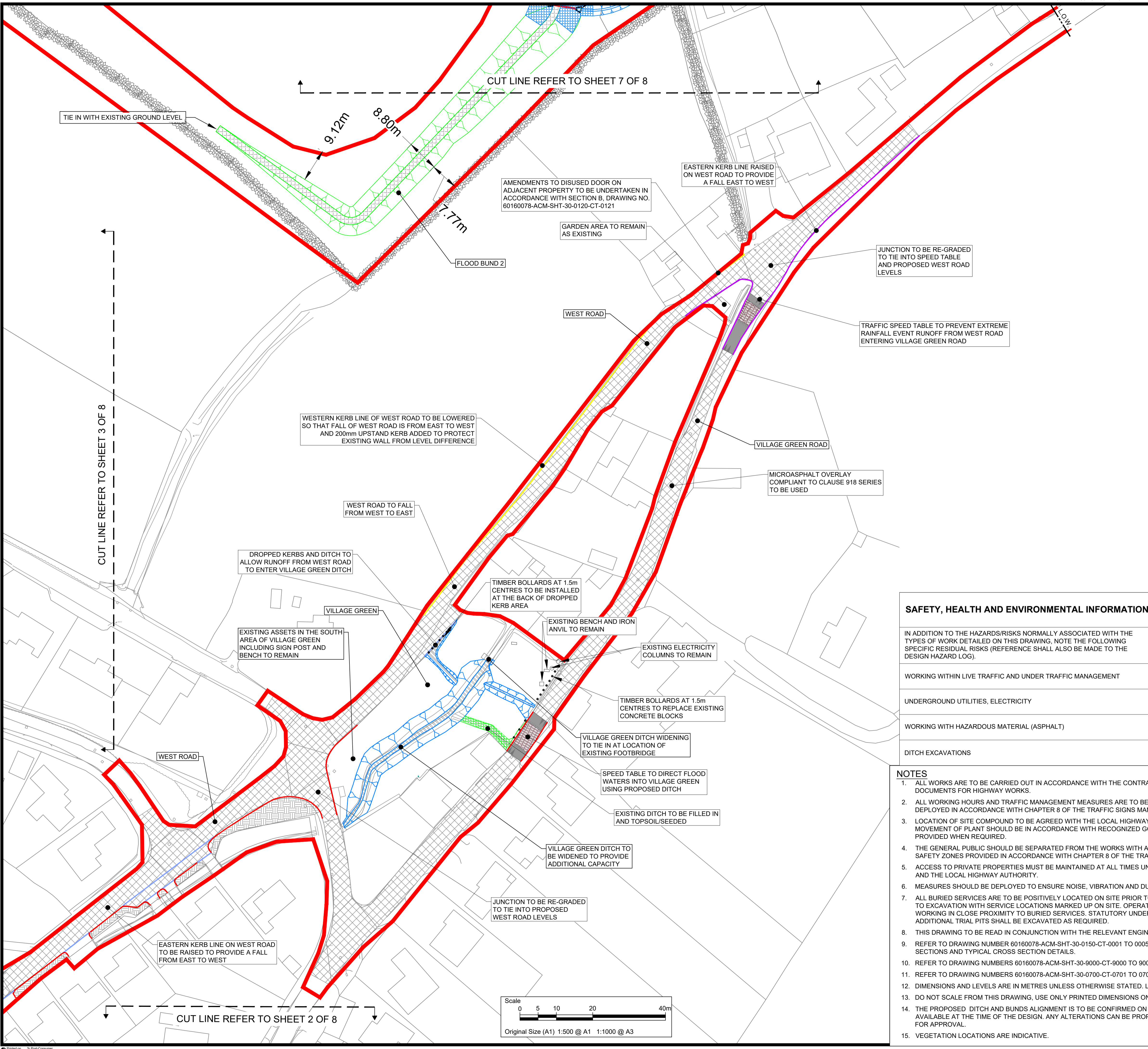
PROJECT NUMBER
60160078

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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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 CULVERT/HEADWALLS
- PROPOSED EROSION MATTING
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- PROPOSED FILTER DRAIN
- EXISTING GULLY LOCATION
- PROPOSED FENCE

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

NOTES

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9. REFER TO DRAWING NUMBER 60160078-ACM-SHT-30-0150-CT-0001 TO 0005 & 60160078-ACM-SHT-30-0120-CT-0121 TO 0128 FOR LONG SECTIONS AND TYPICAL CROSS SECTION DETAILS.
10. REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-9000-CT-9000 TO 9005 FOR STANDARD DETAILS.
11. REFER TO DRAWING NUMBERS 60160078-ACM-SHT-30-0700-CT-0701 TO 0708 FOR PAVEMENT DETAILS.
12. DIMENSIONS AND LEVELS ARE IN METRES UNLESS OTHERWISE STATED. LEVELS RELATE TO ORDNANCE DATUM.
13. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS ONLY.
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15. VEGETATION LOCATIONS ARE INDICATIVE.

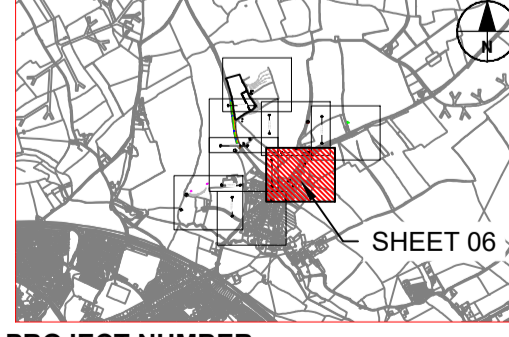
STATUS

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: [blank].
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- PROPOSED FILTER DRAIN
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

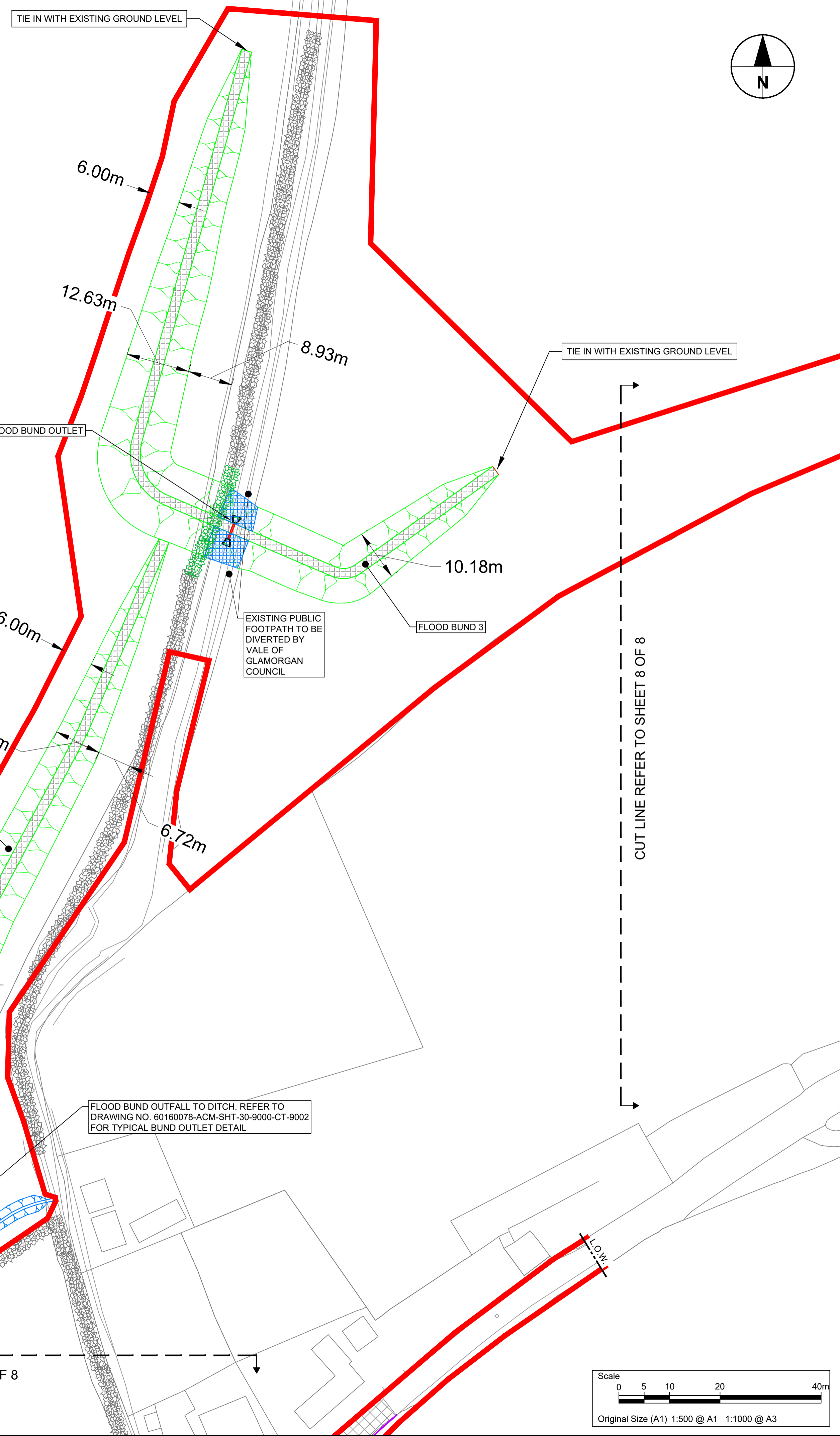
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CUT LINE REFER TO SHEET 4 OF 8

CUT LINE REFER TO SHEET 8 OF 8

TIE IN WITH EXISTING GROUND LEVEL

CUT LINE REFER TO SHEET 6 OF 8



TO BE PROVIDED DITCH TO REPLACE EXISTING DITCH TO BE AGREED WITH THE LOCAL HIGHWAY AUTHORITY

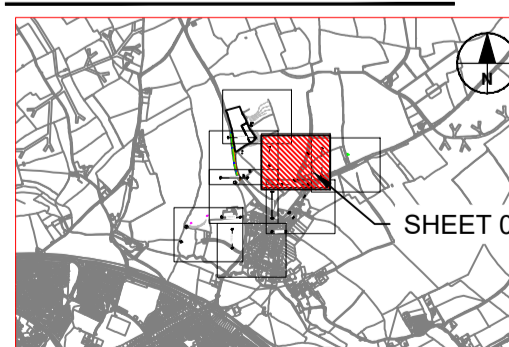
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DETAILED DESIGN

ISSUE/REVISION

NO	DATE	DESCRIPTION
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A	16/12/2020	DRAFT DETAILED DESIGN
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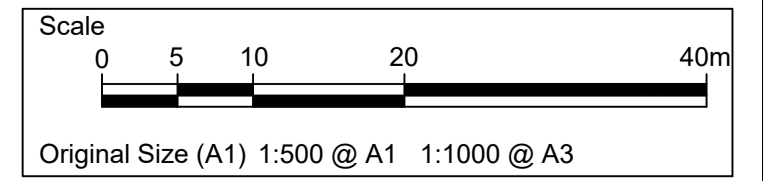
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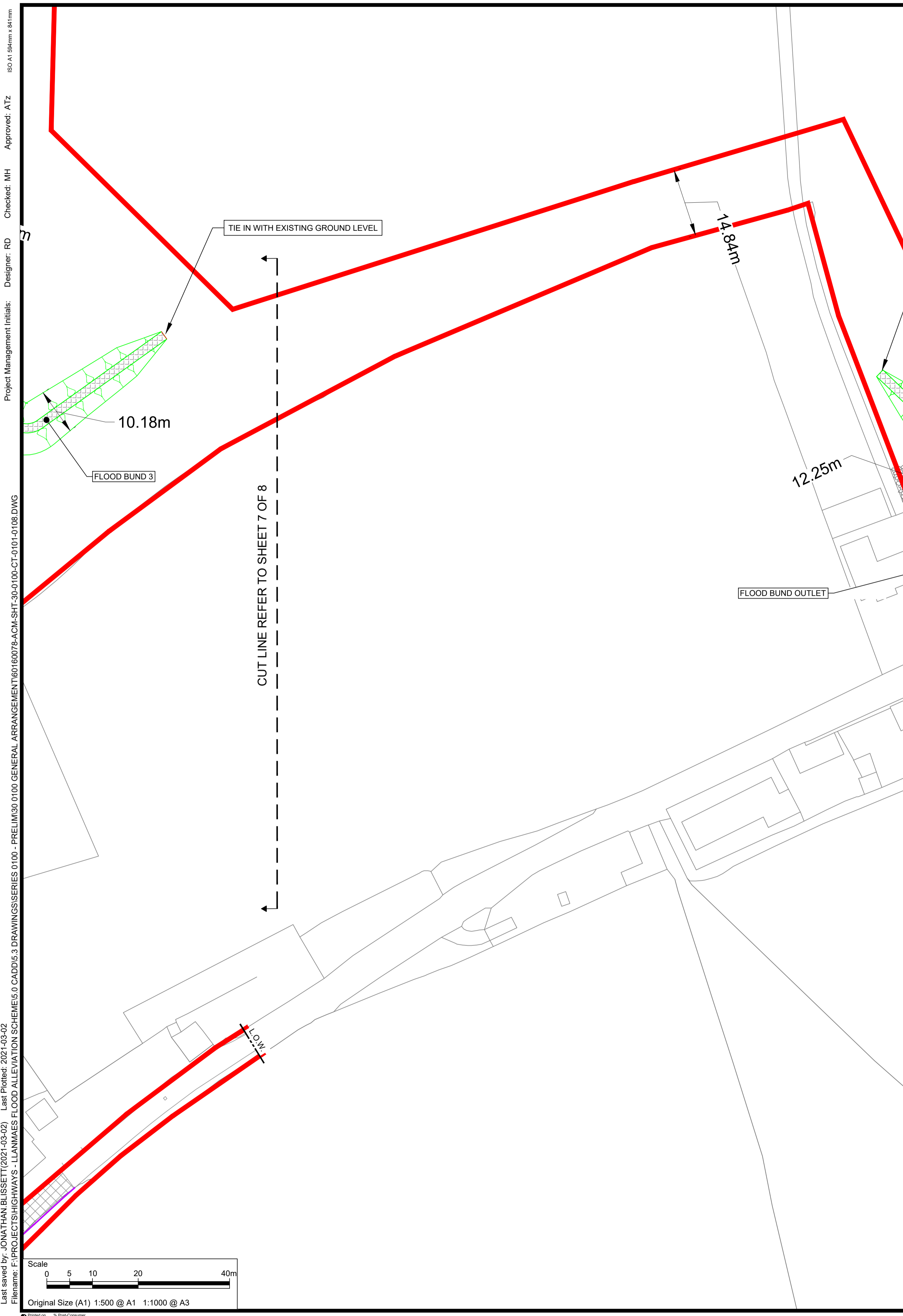
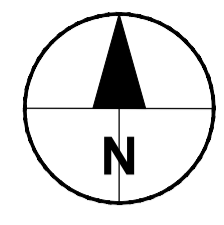
PROJECT NUMBER
60160078

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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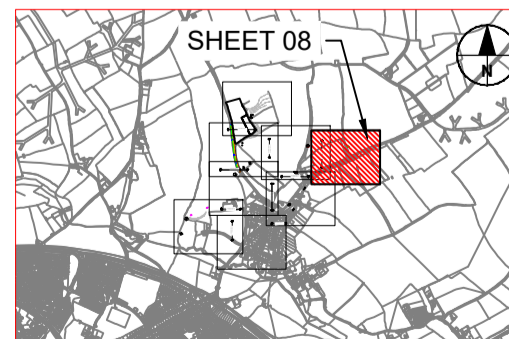
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KEY PLAN



PROJECT NUMBER

60160078

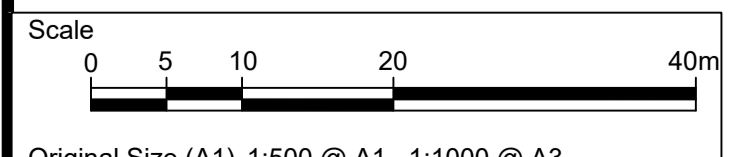
SHEET TITLE

LLANMAES VILLAGE
FLOOD ALLEVIATION SCHEME
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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