

THIS DRAWING IS A REPRODUCTION OF THE ORIGINAL DRAWING. IT IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

PLAN  
1:10000

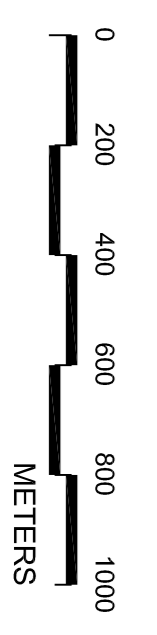
**GENERAL NOTES**

1. Do not scale from this drawing.

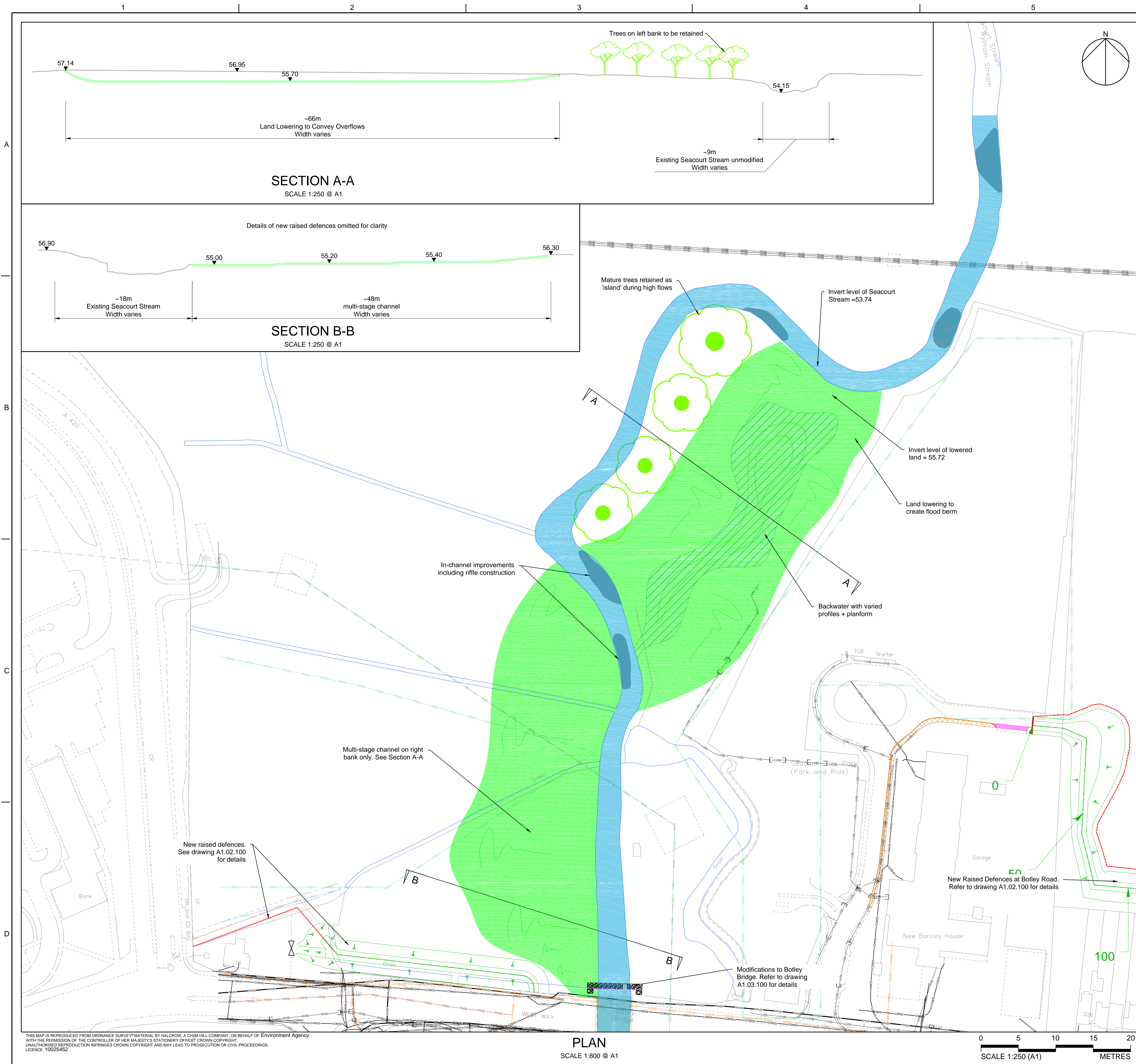
**LEGEND**

- Existing Watercourses
- Site Boundary

DRAFT - INDICATIVE  
 OUTLINE DESIGN

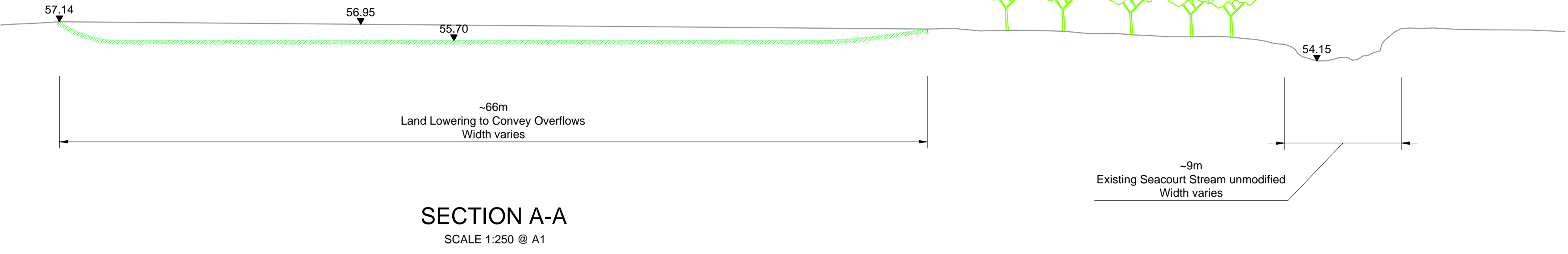


	Burderop Park Swindon, Wiltshire, SN4 0QD TEL: +44 1793 812 479																								
OXFORD FLOOD ALLEVIATION SCHEME OBC <b>GENERAL OVERVIEW PLAN</b>		Environment Agency Environment Agency																							
SCALE 1:10000 BAR IS 25mm ON ORIGINAL DRAWING.	DATE 07/07/2016 PROJ 661656 DWG Z2.00.100 SHEET 1 of 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>REV</td><td>STATUS</td><td>DATE</td><td>DR</td><td>REVISION</td><td>CHK</td><td>APVD</td><td>BY</td><td>APVD</td> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table>	REV	STATUS	DATE	DR	REVISION	CHK	APVD	BY	APVD										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DRG STATUS</td><td>DRG REV</td> </tr> <tr> <td>DRAFT</td><td>0</td> </tr> </table>	DRG STATUS	DRG REV	DRAFT	0
REV	STATUS	DATE	DR	REVISION	CHK	APVD	BY	APVD																	
DRG STATUS	DRG REV																								
DRAFT	0																								



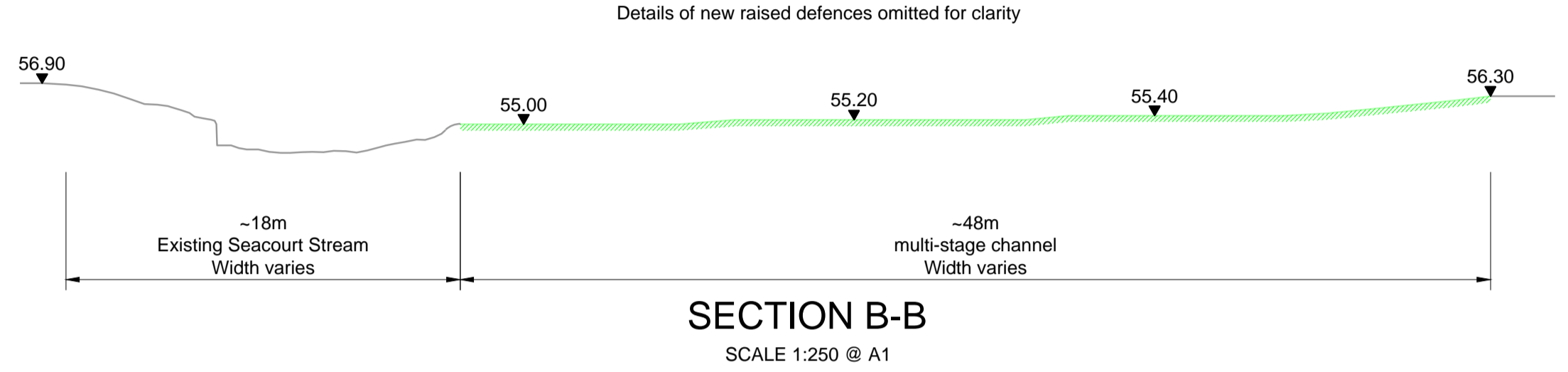
**SECTION A-A**

SCALE 1:250 @ A1



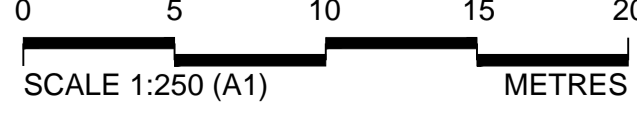
**SECTION B-B**

SCALE 1:250 @ A1



**PLAN**

SCALE 1:800 @ A1



**GENERAL NOTES**

- All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

**NOTES**

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100, A1.02.100 and A1.03.100.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- The sizes of all the channels shown are only indicative and are subject to change.

**LEGEND**

- Existing Watercourses
  - New / Modified First-Stage Channel
  - New Second-Stage Channel
  - Riffles
  - Wetland Features (Scrapes, Backwaters)
  - Retained trees
  - Bays + berms (channel)
- Statutory Undertakers Information**
- Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

- Areas of work adjacent to watercourses and there is a risk of drowning. Temporary works required to isolate working area from water. Machines to be operated at furthestmost point from watercourses. No lone working within the vicinity of a watercourse.
- Working near public rights of way - Botley Bridge and Seacourt Park & Ride. Traffic management where appropriate. Fencing, signs and compliance with regulations.
- Contamination of controlled waters. Existing watercourses are to be isolated prior to any concreting works.
- Unexploded ordnance. Site risk assessment to be produced and recommendations followed during investigation.
- Presence of underground and overhead cables. Utility plans to be kept on site during the works. Positions of overhead electricity services and pylons to be noted.

**MAINTENANCE/CLEANING:**

- Working near watercourses - any maintenance activities to be carried out during low water levels and no lone working.
- Vehicles could get grounded on the multi-stage bank - an assessment of the multi-stage bank to be carried out prior to vehicles being driven.
- There is no turning for vehicles accessing the new smaller bund to the West of Botley Road. Drivers should consider using a banksman whilst reversing on the bund.

**DECOMMISSIONING/DEMOLITION:**

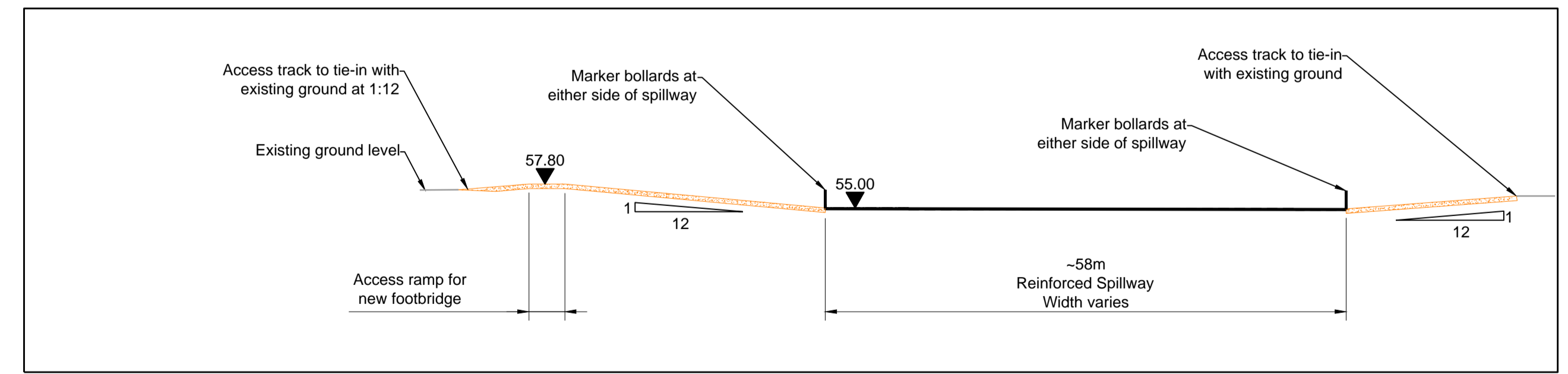
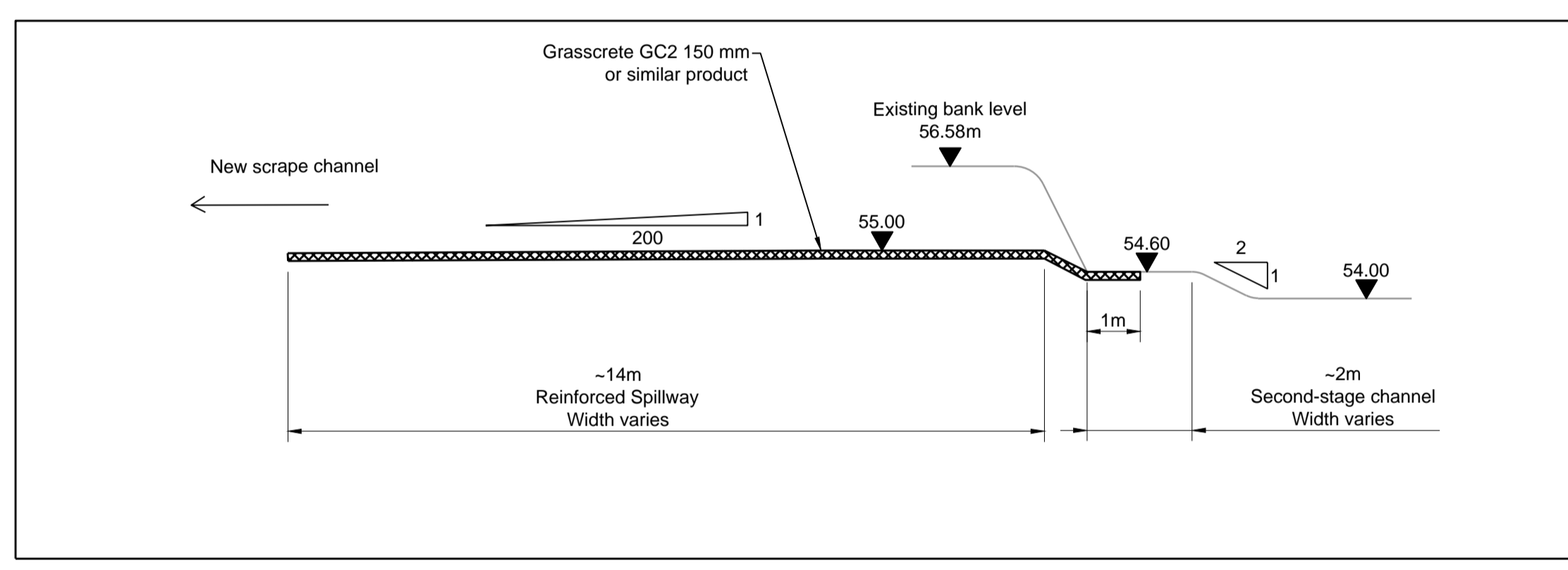
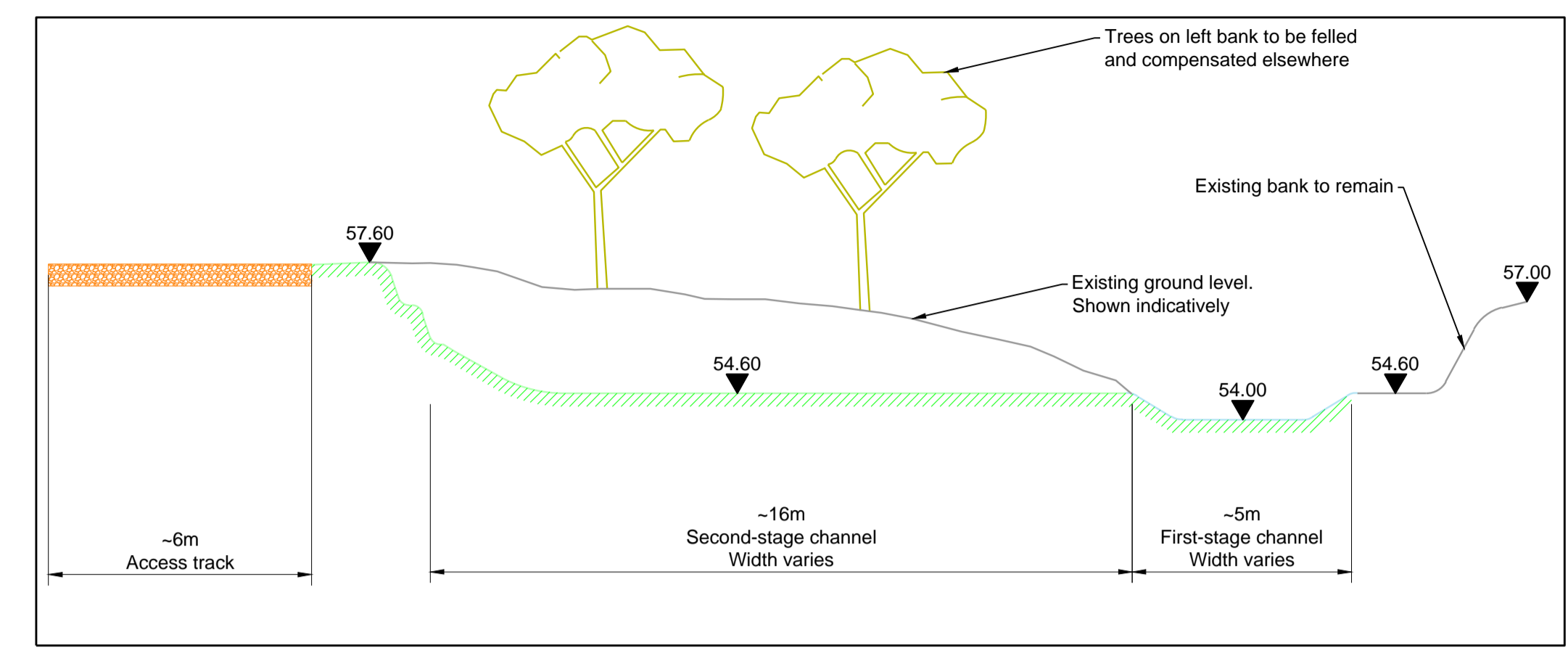
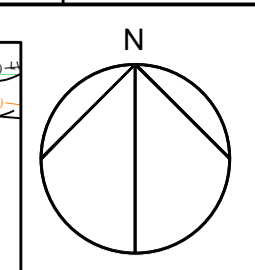
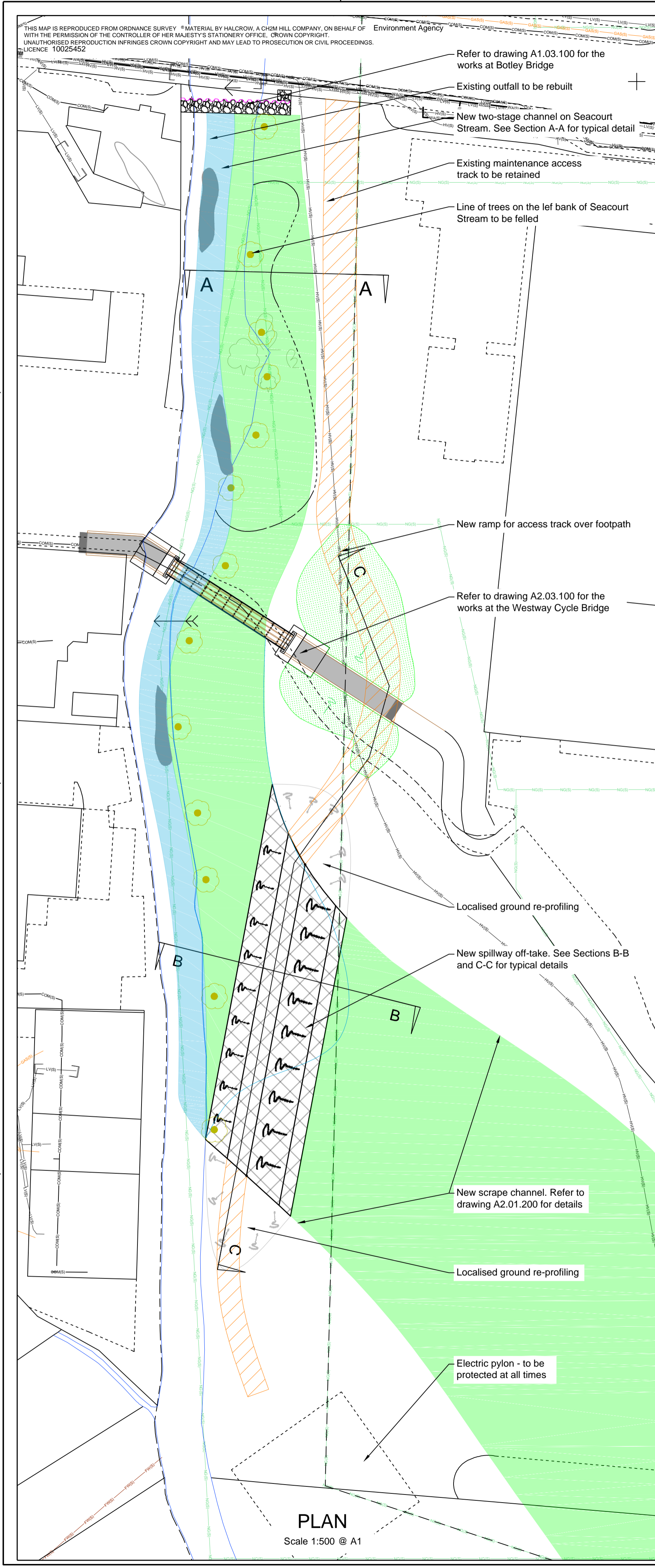
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

**DRAFT - INDICATIVE  
OUTLINE DESIGN**

Burderop Park Swindon, Wiltshire, SN4 0QD TEL: +44 1793 812 479		Environment Agency		OXFORD FLOOD ALLEVIATION SCHEME OBC AREA 1 MODIFICATIONS TO SEACOURT STREAM	
DATE	22/07/2016	DRG STATUS	DRAFT	DRG REV	1
REV / STATUS	1 FINAL	BY / APVD	PJM	CHK	KCH
DSGN	DATE	DATE	DATE	DATE	DATE
1	22/07/2016	22/07/2016	22/07/2016	22/07/2016	22/07/2016
CHANGES INCORPORATED FOLLOWING REVIEW BY EA					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					
101					
102					
103					
104					
105					
106					
107					
108					
109					
110					
111					
112					
113					
114					
115					
116					
117					
118					
119					
120					
121					
122					
123					
124					
125					
126					
127					
128					
129					
130					
131					
132					
133					
134					
135					
136					
137					
138					
139					
140					
141					
142					
143					
144					
145					
146					
147					
148					
149					
150					
151					
152					
153					
154					
155					
156					
157					
158					
159					
160					
161					
162					
163					
164					
165					
166					
167					
168					
169					
170					
171					
172					
173					
174					
175					
176					
177					
178					
179					
180					
181					
182					
183					
184					
185					
186					
187					
188					
189					
190					
191					
192					
193					
194					
195					
196					
197					
198					
199					
200					
201					
202					
203					
204					
205					
206					
207					
208					
209					
210					
211					
212					
213					
214					
215					
216					
217					
218					
219					
220					
221					
222					
223					
224					
225					
226					
227					
228					
229					
230					
231					
232					
233					
234					
235					
236					
237					
238					
239					
240					
241					
242					
243					
244					
245					
246					
247					
248					
249					
250					
251					
252					
253					
254					
255					
256					
257					
258					
259					
260					
261					
262					
263					
264					
265					
266					
267					
268					
269					
270					
271					
272					
273					
274					
275					
276					
277					
278					
279					
280					
281					
282					
283					
284					
285					
286					
287					
288					
289					
290					
291					
292					
293					
294					
295					
296					
297					
298					
299					
300					
301					
302					
303					
304					
305					
306					
307					
308					
309					
310					
311					
312					
313					
314					
315					
316					
317					
318					
319					
320					
321					
322					
323					
324					
325					
326					
327					
328					
329					
330					
331					
332					
333					
334					
335					
336					
337					
338					
339					
340					
341					
342					
343					
344					
345					
346					
347					
348					
349					
350					
351					
352					
353					
354					
355					
356					
357					
358					
359					
360					
361					
362					
363					
364					
365					
366					
367					
368					
369					
370					
371					
372					
373					
374					
375					
376					
377					
378					
379					
380					
381					
382					
383					
384					
385					
386					
387					
388					
389					
390					
391					
392					
393					
394					
395					
396					
397					
398					
399					
400					
401					
402					
403					
404					
405					
406					
407					
408					
409					
410					
411					
412					
413					
414					
415					
416					
417					
418					
419					







### GENERAL NOTES

- All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

### NOTES

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100, A1.03.100 and A2.01.200.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- The sizes of all the channels shown are only indicative and are subject to change.

### LEGEND

- Existing Watercourses
  - New / Modified First-Stage Channel
  - New Second-Stage Channel
  - New / Modified Access Track
  - Indicative locations of Trees to be Retained
  - Indicative locations of Trees to be Felled
  - Riffles
- Statutory Undertakers Information**
- Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

- Areas of work adjacent to watercourses and there is a risk of drowning. Temporary works required to isolate working area from water. Machines to be operated at furthest point from watercourses. No lone working within the vicinity of a watercourse.
- Working near public rights of way / occupied buildings. Traffic management where appropriate. Fencing, signs and compliance with regulations.
- Contamination of controlled waters - watercourses to be isolated prior to any concreting works.
- Unexploded ordnance. Site risk assessment to be produced and recommendations followed during investigation.
- Presence of underground and overhead cables - the electric pylon located next to the new spillway is to be protected at all times. Utility plans to be kept on site during the works.

**MAINTENANCE/CLEANING:**

- Working near watercourses. No lone working and adjacent access tracks could ground vehicles.

**DECOMMISSIONING/DEMOLITION:**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

**DRAFT - INDICATIVE  
OUTLINE DESIGN**

DRG STATUS	DRG REV	1
DRAFT		
BY	APVD	PJM
ZO		
CHANGES INCORPORATED FOLLOWING REVIEW BY EA	APVD	KCH
REVISION	CHK	ZO
DATE	DR	
22/07/2016		
FINAL	DATE	
1	REV STATUS	
1	DSGN	

Burderop Park  
Swindon, Wiltshire, SN4 0OD  
TEL: +44 1793 812 479

**Environment Agency**

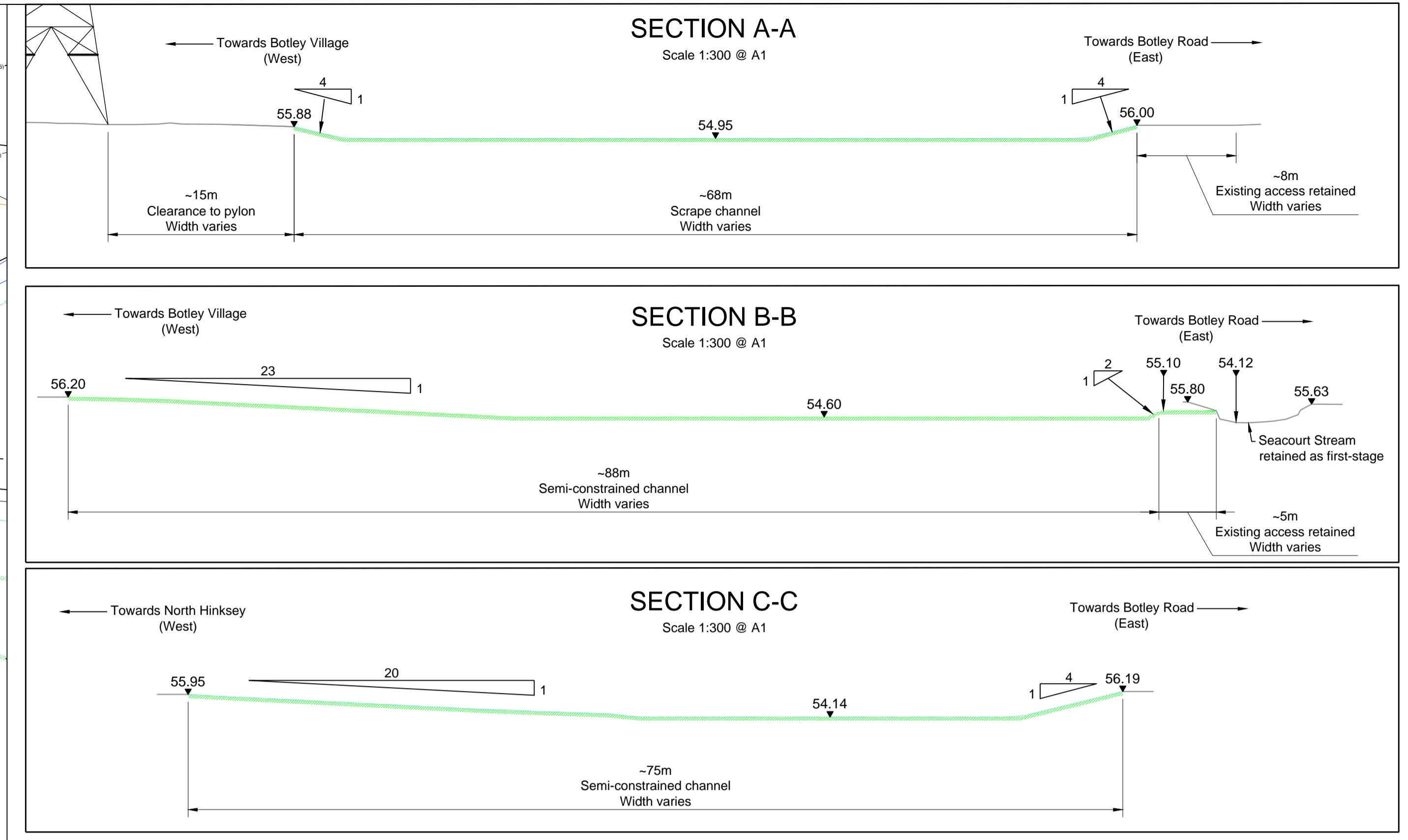
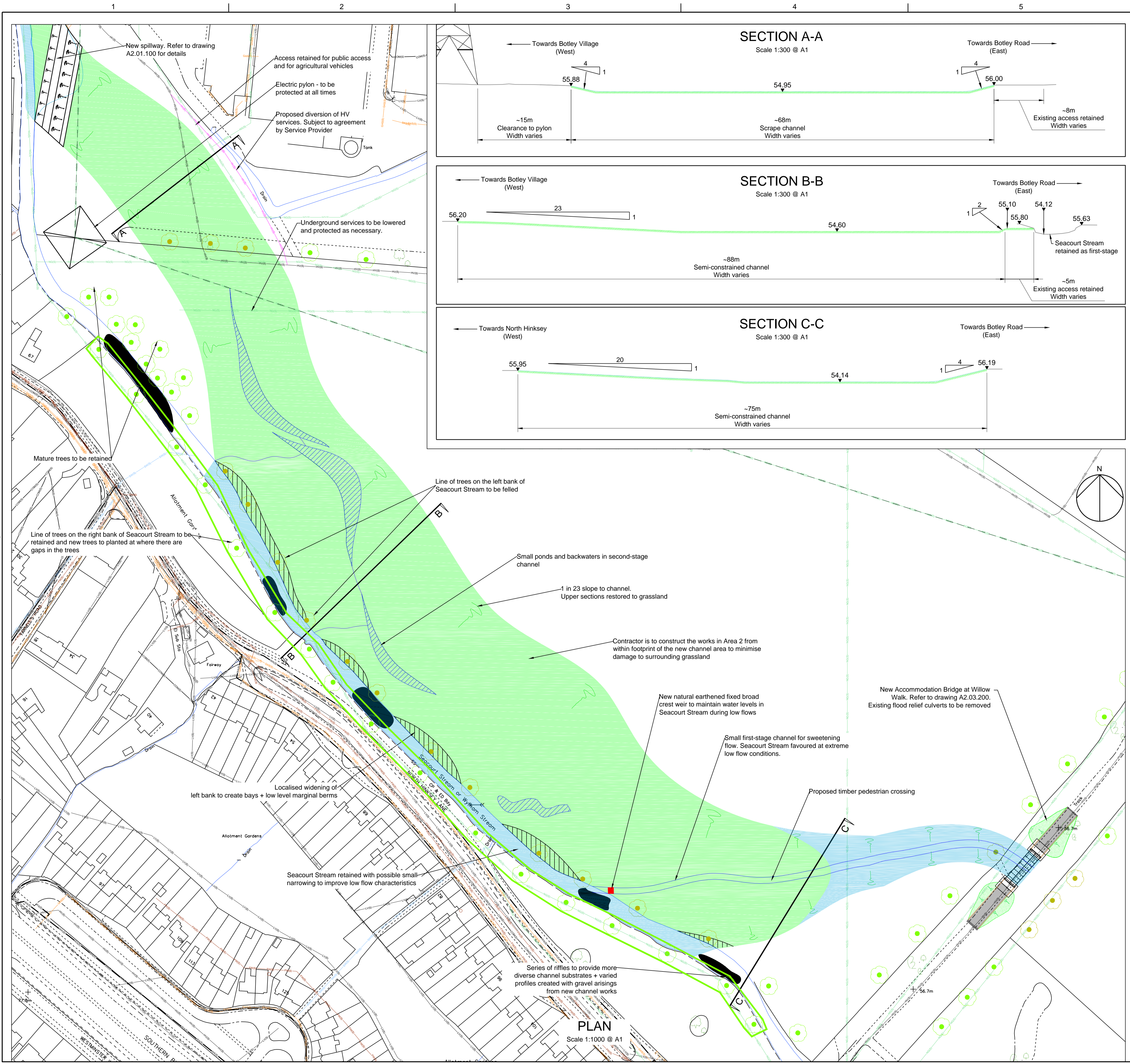
OXFORD FLOOD ALLEVIATION SCHEME OBC  
**AREA 2**  
**TWO-STAGE CHANNEL ON SEACOURT STREAM  
FROM BOTLEY BRIDGE TO NEW SPILLWAY**

**ch2m:**

VERIFY SCALE  
BAR IS 25mm ON ORIGINAL DRAWING.  
0 25mm

DATE	07/07/2016
PROJ	661656
DWG	A2.01.100
SHEET	1 of 1

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. ©CH2M HILL 2013. ALL RIGHTS RESERVED.



### GENERAL NOTES

- All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

### NOTES

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100, A1.03.100, A2.03.100 and A2.03.200.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- The sizes of all the channels shown are only indicative and are subject to change.

### LEGEND

- Existing Watercourses
  - New / Modified First-Stage Channel
  - New Second-Stage Channel
  - Riffles
  - Wetland Features: (Scrapes, Backwaters)
  - Indicative locations of Trees to be Retained
  - Indicative locations of Trees to be Felled
  - Bays + berms (channel)
  - Flow control structures
- Statutory Undertakers Information**
- Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

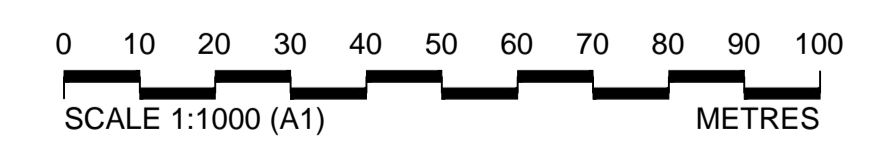
- Areas of work adjacent to watercourses and there is a risk of drowning. Temporary works required to isolate working area from water. Machines to be operated at furthest point from watercourses. No lone working within the vicinity of a watercourse.
- Working near public rights of way - Willow Walk. Traffic management where appropriate. Fencing, signs and compliance with regulations.
- The existing stone bridge to the West of Willow Walk is unsuitable to accommodate heavy vehicles - not to be used for construction traffic.
- Contamination of controlled waters. Existing watercourses are to be isolated prior to any concreting works.
- Unexploded ordnance. Site risk assessment to be produced and recommendations followed during investigation.
- Presence of underground and overhead cables. Utility plans to be kept on site during the works. Positions of overhead electricity services and pylons to be noted.
- Presence of livestock in areas that are outside the designated working areas.

**MAINTENANCE/CLEANING:**

- Working near watercourses. No lone working and adjacent access tracks could ground vehicles.

**DECOMMISSIONING/DEMOLITION:**

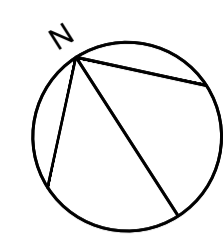
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.



**DRAFT - INDICATIVE  
OUTLINE DESIGN**

DRG STATUS	DRG REV	1
DRAFT		
BY	APVD	PJM
ZO		
CHANGES INCORPORATED FOLLOWING REVIEW BY EA	REVISION	CHK
DATE	DATE	ZO
22/07/2016		
REV STATUS	DR	DR
1	FINAL	1
DSGN		
<b>OXFORD FLOOD ALLEVIATION SCHEME OBC AREA 2 GENERAL ARRANGEMENT OF CHANNELS</b>		
Burderop Park Swindon, Wiltshire, SN4 0DD TEL: +44 1753 812 479		
DATE	07/07/2016	
PROJ	661656	
DWG	A2.01.200	
SHEET	1 of 1	

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2013. ALL RIGHTS RESERVED.



New channels.  
See drawing A2.01.200  
for details

New Access Track  
See drawing A2.01.200  
for details

Outline Design assumes existing  
bridge abutment is retained.  
Existing abutment to be reviewed in  
Detailed Design to assess  
opportunity for re-use with new  
bridge.

Existing footpath

Bankseat abutment  
Westbound

Main beams. See TYPICAL  
BEAM CROSS SECTION

Bankseat abutment  
Eastbound

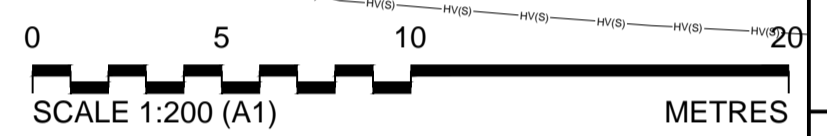
New footpath

Power cable to be  
realigned to suit new  
bridge abutment

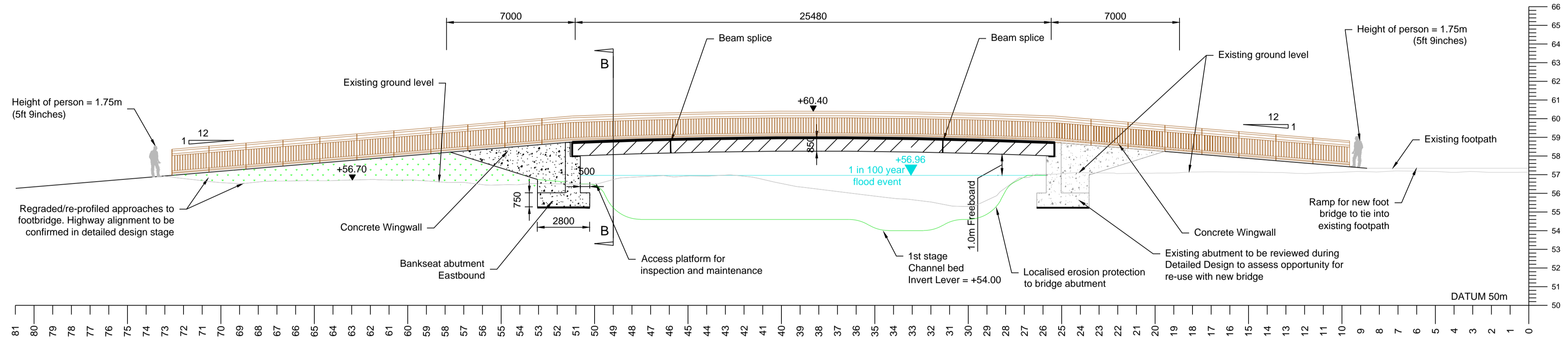
Existing footpath  
to be diverted

2300 approximate spacing

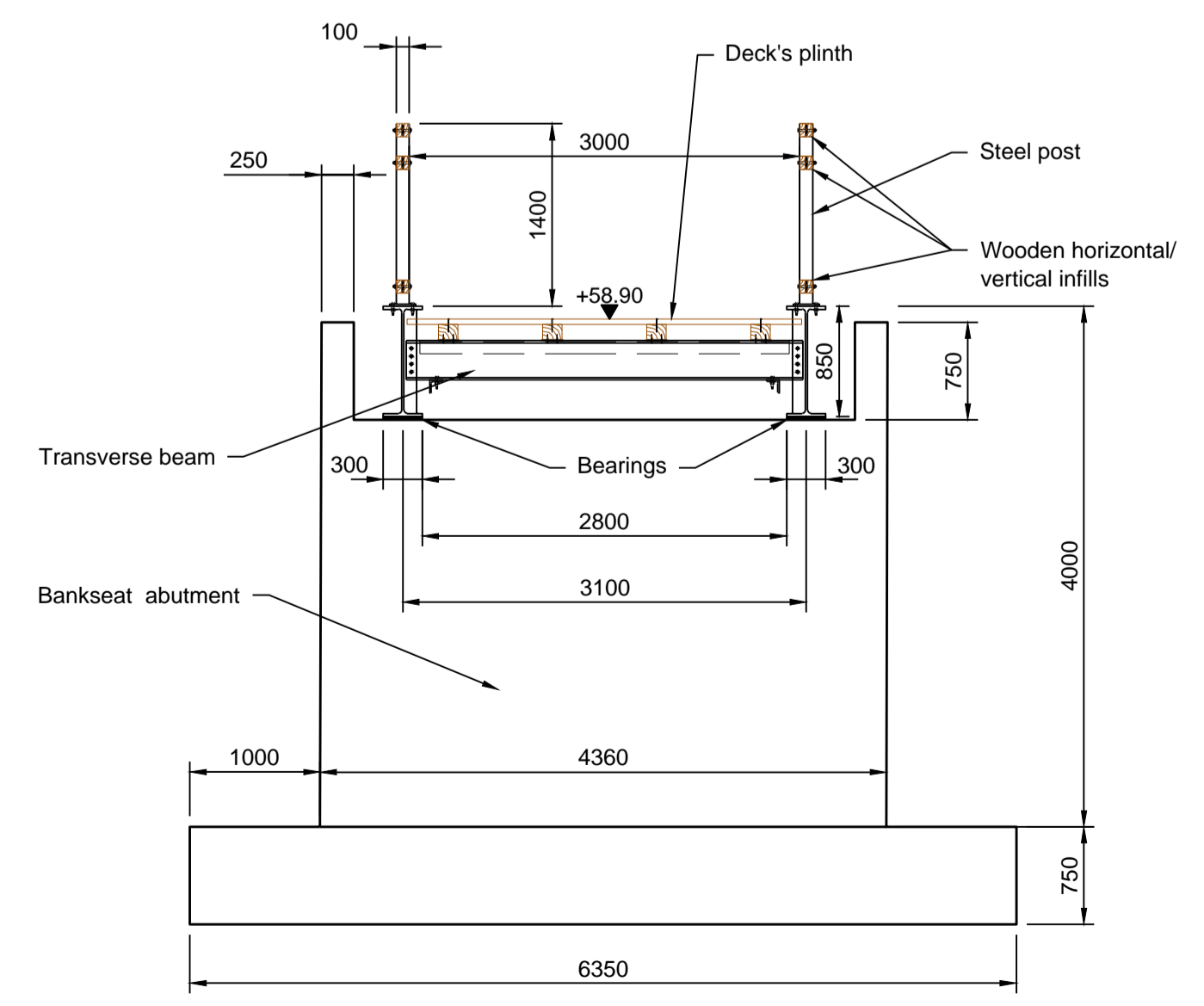
Galvanised transverse beams  
(UB 406X140)



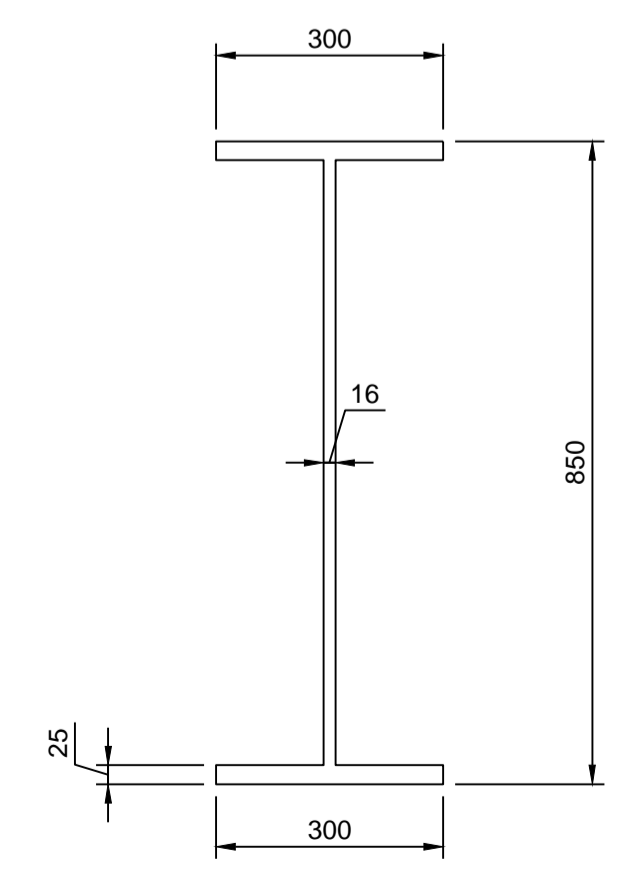
**PLAN VIEW**  
SCALE 1:200



**LONG SECTION A-A**  
SCALE 1:150



**CROSS SECTION B-B**  
SCALE 1:50



**TYPICAL BEAM CROSS SECTION**  
SCALE 1:10

**GENERAL NOTES**

1. All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

**NOTES**

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100 and A2.01.100.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- New footbridge for combined use by pedestrians and cyclists. All structural steelwork will utilise structural steel Grade S355J2+N to BS EN 10025 - 2 : 2004.
- New footbridge designed for live load capacity of 5kN/m<sup>2</sup>.
- Hardwood is the preferred material for construction of the bridge deck and parapets.
- New combined pedestrian and cyclist parapet in timber designed for Class 3 (TBC) live load and min. height 1400mm as specified in BS 7818:1995.
- All timber sourced from sustainable and legal sources. Certification by a qualified independent body provided to the Project Manager for approval prior to installation.
- The sizes of all the channels shown are only indicative and are subject to change.

**LEGEND**

- Existing Watercourses
  - New channel or widening of existing channel
- Statutory Undertakers Information
- Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/tasks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

- Areas of work adjacent to watercourses and high water table.
- Working near public rights of way / cycle path. Traffic management where appropriate. Fencing, signs and compliance with regulations.
- Working near public right of way - Westway Cycle Path would need to be temporarily closed during construction period. Traffic management where appropriate - fencing, signage, and compliance with regulations.
- Working from height on the bridge decking. Appropriate fall arrest systems and working platforms to be deployed.
- Presence of underground and overhead services. Utility plans to be kept on site during the works. Positions of overhead electricity services and pylons to be noted.
- Contamination of watercourses. Isolation of watercourses during any concreting works would be required.

**MAINTENANCE/CLEANING:**

**DECOMMISSIONING/DEMOLITION:**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

**DRAFT - INDICATIVE  
OUTLINE DESIGN**

DRG STATUS	DRG REV
DRAFT	1
BY	APVD
ZO	PJM
REVISION	CHK
DATE	DR
1 FINAL 22/07/2016	VK & KK
CHANGES INCORPORATED FOLLOWING REVIEW BY EA	ZO
1	APVD
DSGN	JS

Burderop Park  
Swindon, Wiltshire, SN4 0DD  
TEL: +44 1793 812 479

**Environment Agency**

**ch2m**

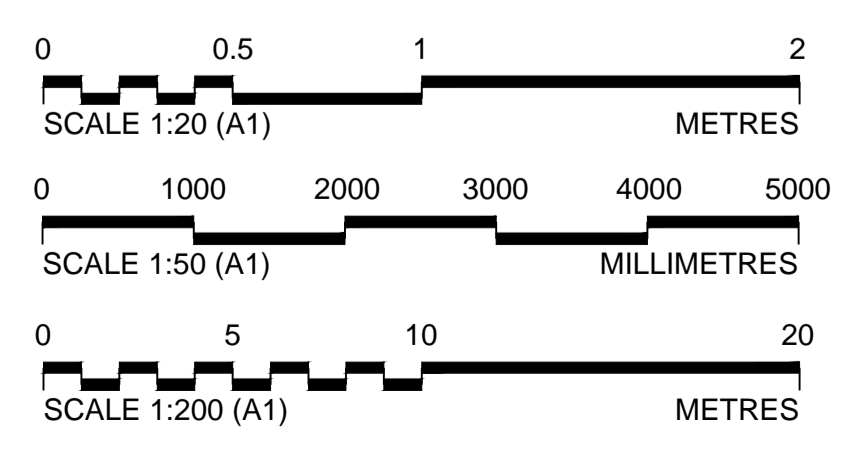
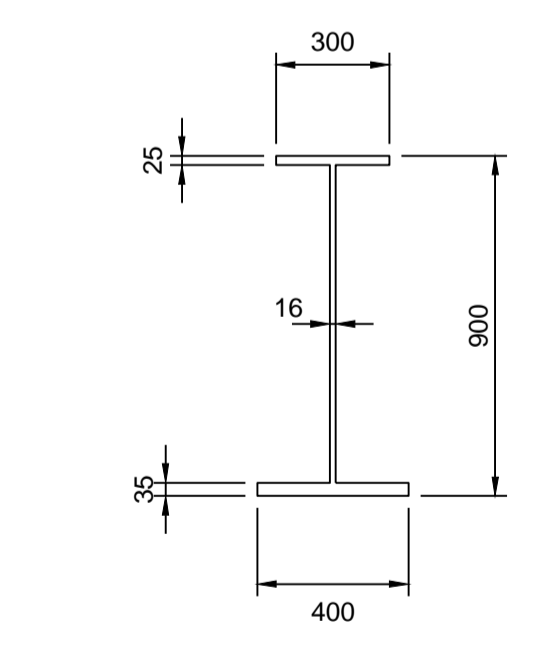
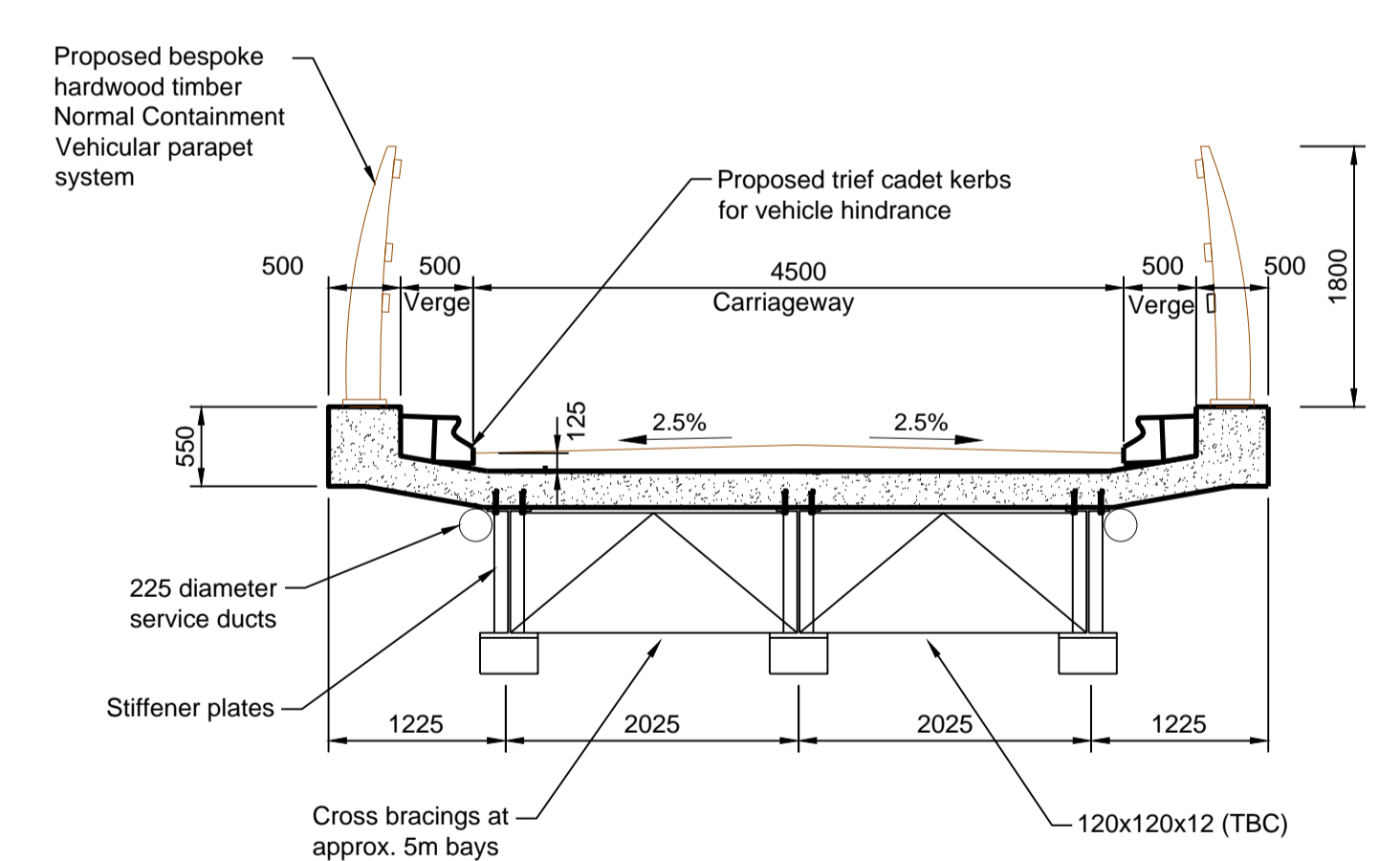
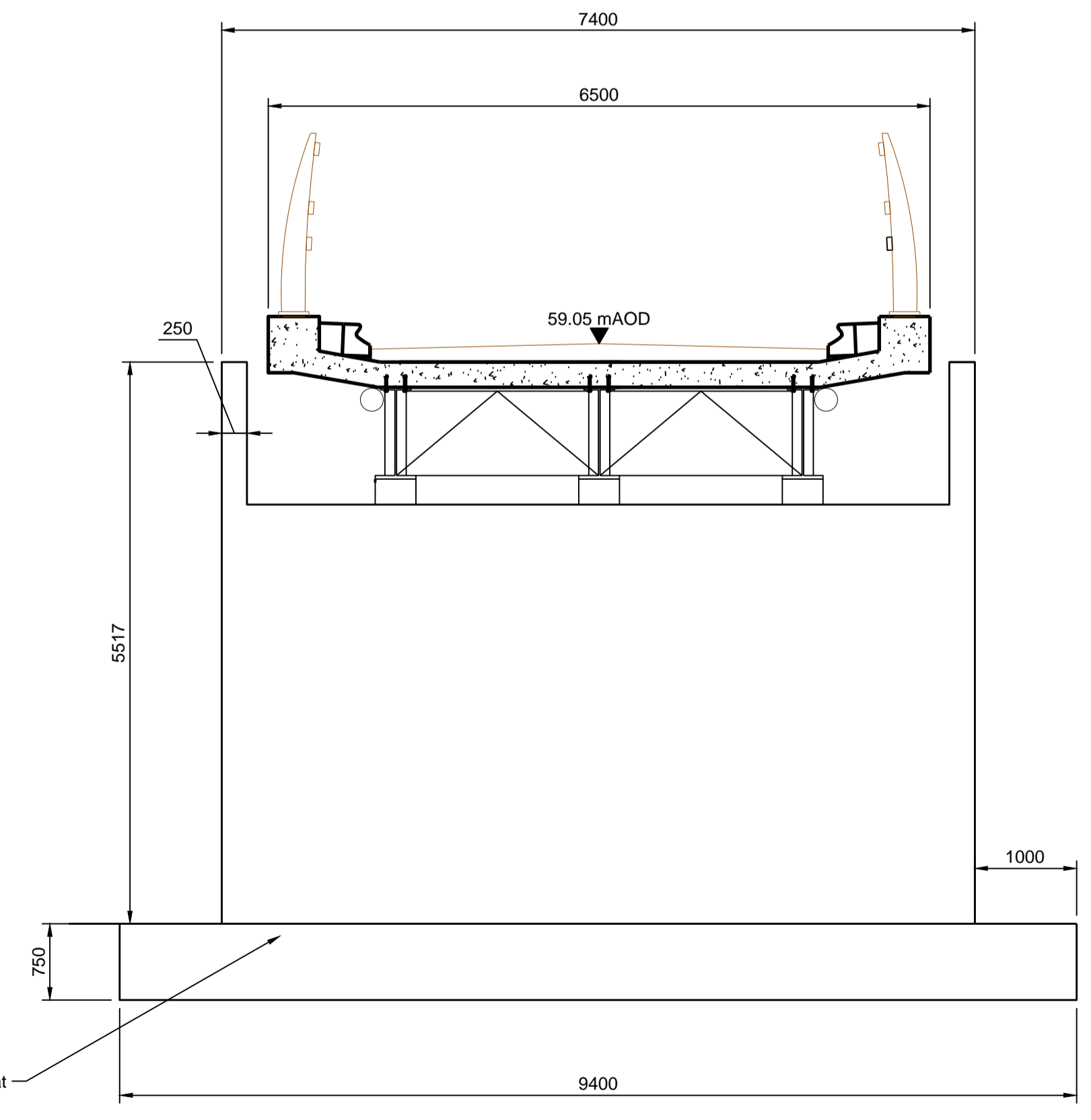
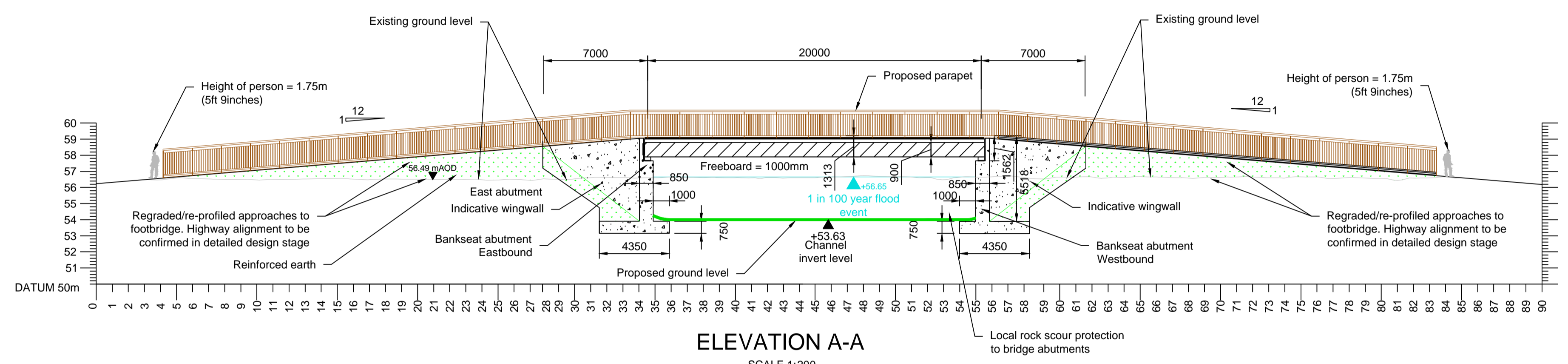
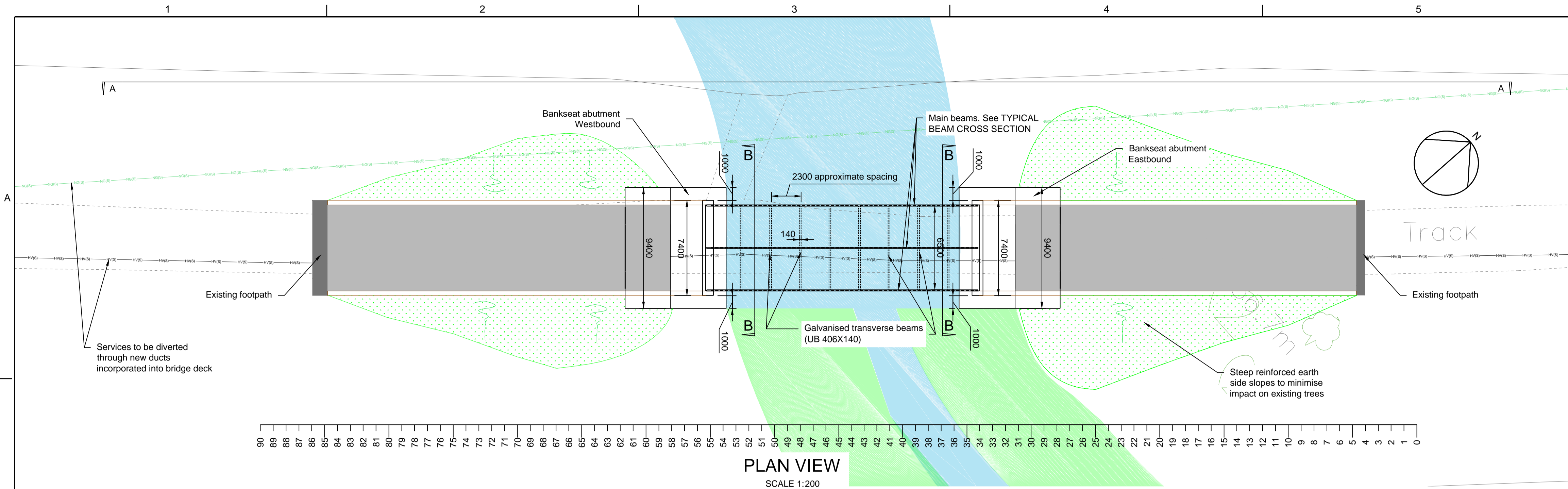
OXFORD FLOOD ALLEVIATION SCHEME OBC  
AREA 2  
NEW FOOTBRIDGE AT  
WEST WAY CYCLE PATH

VERIFY SCALE  
BAR IS 25mm ON ORIGINAL DRAWING.  
0 25mm

DATE 07/07/2016  
PROJ 661656  
DWG A2.03.100  
SHEET 1 of 1

THIS MAP IS REPRODUCED FROM ORDNANCE SURVEY MATERIAL BY HALCROW, A CH2M HILL COMPANY, ON BEHALF OF Environment Agency WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN COPYRIGHT. UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS. LICENCE 10022452

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2013. ALL RIGHTS RESERVED.



**GENERAL NOTES**

1. All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

**NOTES**

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100 and A2.01.3300.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- Existing flood relief culverts to be removed.
- New Accommodation Bridge for combined use by pedestrians, cyclists, equestrian and vehicles. All structural steelwork will utilise structural steel Grade S355J2+N to BS EN 10025 - 2 : 2004.
- New accommodation bridge is designed for BS EN 1991-2 traffic load models LM1 and LM2 and for pedestrians, LM4 in accordance with Eurocode standard BS EN 1992-1-2 'Actions on structures'.
- An As Low As Reasonably Practicable (ALARP) assessment of the proposed bespoke parapet system will be undertaken in accordance with TD19/06 to review the containment level of the proposed system in view of installing trapezoidal kerbs to fulfill vehicle containment. Parapet height to be 1800mm.
- All timber sourced from sustainable and legal sources. Certification by a qualified independent body provided to the Project Manager for approval prior to installation.
- The sizes of all the channels shown are only indicative and are subject to change.

**LEGEND**

- Existing Watercourses
- New channel or widening of existing channel
- Stutory Undertakers Information
  - Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

- Areas of work adjacent to watercourses and high water table.
- Working near public right of way - Willow Walk would need to be temporary closed during construction period. Traffic management where appropriate - fencing, signage, and compliance with regulations.
- The existing stone bridge to the West of Willow Walk is unsuitable to accommodate heavy vehicles - not to be used for construction traffic.
- Working from height on the bridge decking. Appropriate fall arrest systems and working platforms to be deployed.
- Presence of underground and overhead services. Utility plans to be kept on site during the works. Positions of overhead electricity, services and pylons to be noted.
- Contamination of watercourses. Isolation of watercourses during any concreting works would be required.

**MAINTENANCE/CLEANING:**

**DECOMMISSIONING/DEMOLITION:**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

**DRAFT - INDICATIVE OUTLINE DESIGN**

DRG STATUS	DRG REV
DRAFT	1
BY	PJM
APVD	
REVISION	CHK
REVISION	ZO
REVISION	US
REVISION	DR
DATE	VK & KK
FINAL	22/07/2016
CHANGES INCORPORATED FOLLOWING REVIEW BY EA	
ZO	
PJM	

Burderop Park  
Swindon, Wiltshire, SN4 0OD  
TEL +44 1793 812 479

**Environment Agency**

**ch2m**

OXFORD FLOOD ALLEVIATION SCHEME OBC  
AREA 2  
NEW ACCOMMODATION BRIDGE  
AT WILLOW WALK

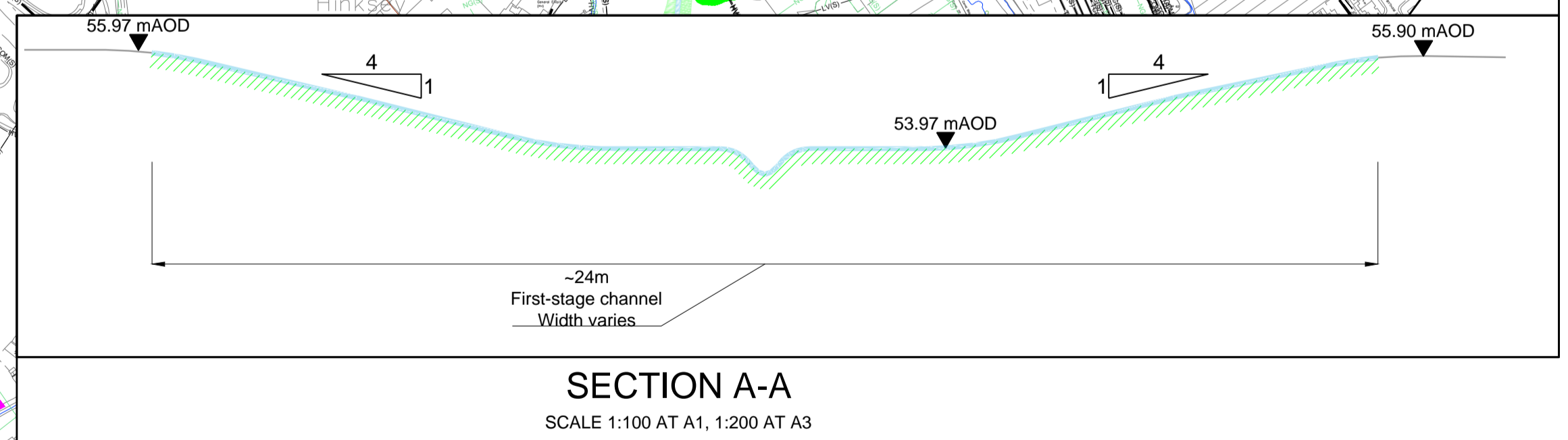
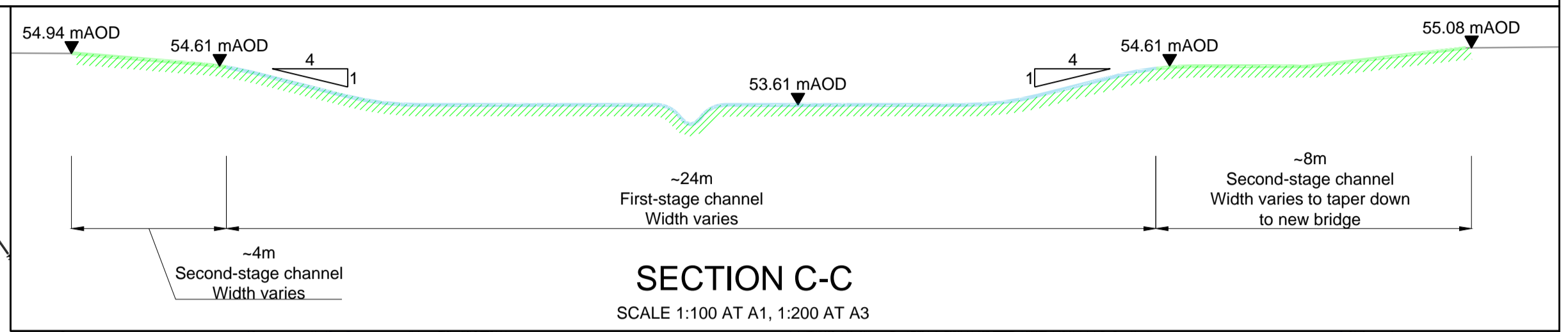
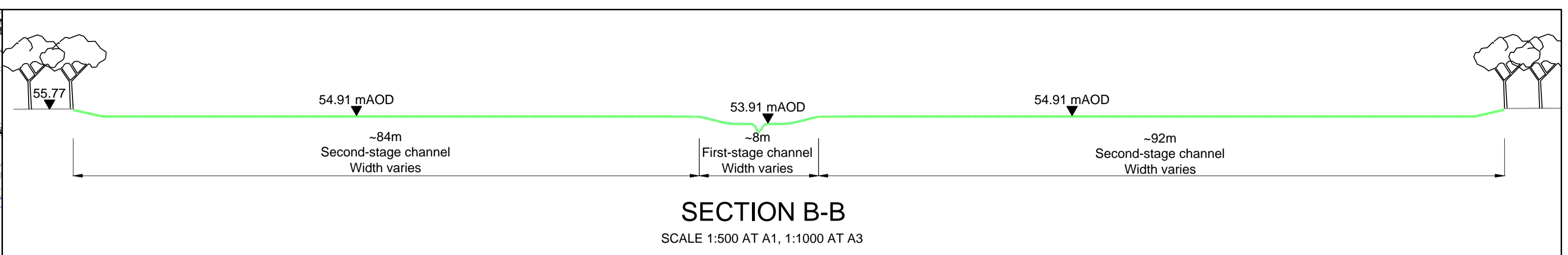
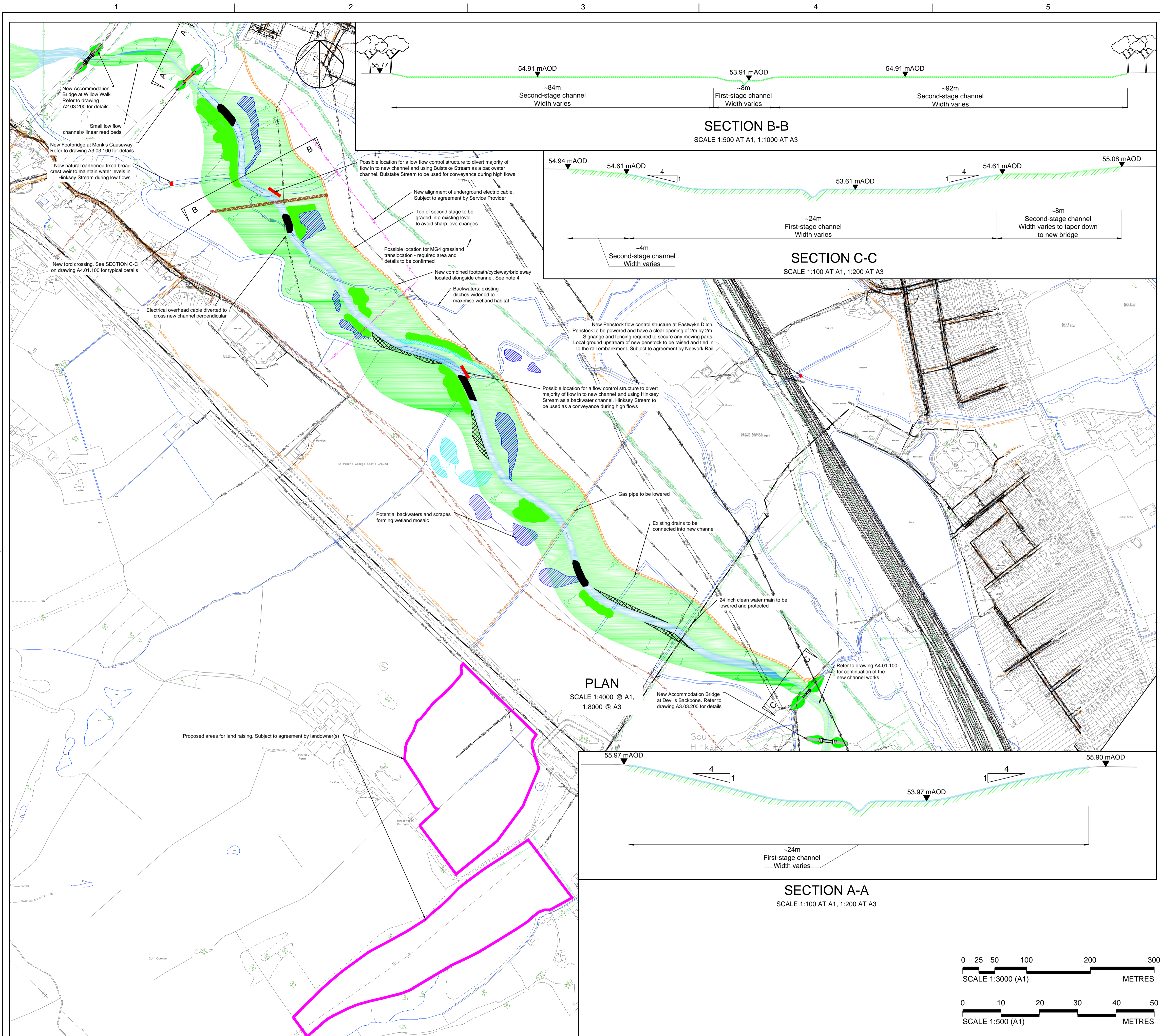
VERIFY SCALE  
BAR IS 25mm ON ORIGINAL DRAWING.  
0 25mm

DATE	07/07/2016
PROJ	661656
DWG	A2.03.200
SHEET	1 of 1

THIS MAP IS REPRODUCED FROM ORDNANCE SURVEY MATERIAL BY HALCROW, A CH2M HILL COMPANY, ON BEHALF OF Environment Agency WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN COPYRIGHT. UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS. LICENCE: 10025462

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. ©CH2MHILL 2013. ALL RIGHTS RESERVED.



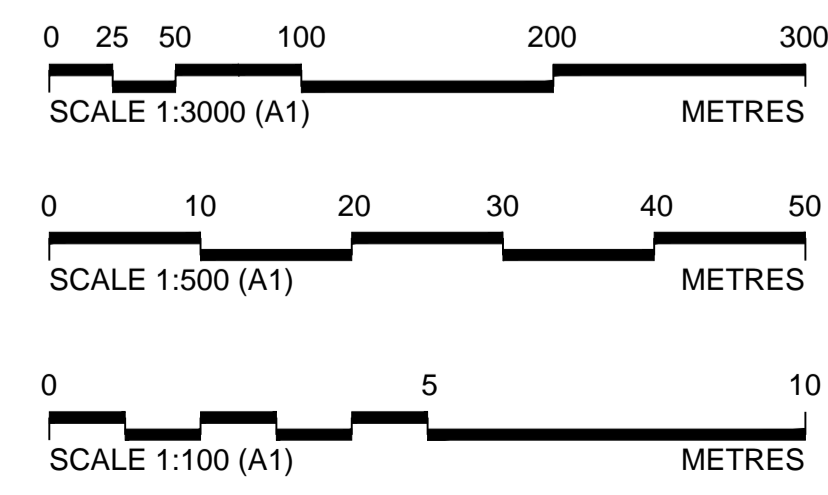


**PLAN**  
SCALE 1:4000 @ A1,  
1:8000 @ A3

**SECTION B-B**  
SCALE 1:500 AT A1, 1:1000 AT A3

**SECTION C-C**  
SCALE 1:100 AT A1, 1:200 AT A3

**SECTION A-A**  
SCALE 1:100 AT A1, 1:200 AT A3



**GENERAL NOTES**

1. All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAO) Newlyn.

**NOTES**

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100, A2.03.200, A3.03.100 and A3.03.200.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- Alternative to new brideway could be to upgrade the existing Electric Road track to accommodate recreational use.
- The sizes of all the channels shown are only indicative and are subject to change.
- Additional crossings may be required at where new channel crosses existing waterbodies.

**LEGEND**

- Existing Watercourses
  - New / Modified First-Stage Channel
  - New Second-Stage Channel
  - Flow control structures
  - Wetland features (scrapes, backwaters)
  - Off-line ponds + scrapes
  - Riffle features
  - Localised scrub + tree planting
  - Localised widening of channel/ low-level berms
  - Proposed areas for land raising
- Statutory Undertakers Information**
- Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

- Areas of work adjacent to watercourses and there is a risk of drowning. Temporary works required to isolate working area from water. Machines to be operated at furthest point from watercourses. No lone working within the vicinity of a watercourse. W
- Working near public right of way - Devil's Backbone would need to be temporarily closed during construction period. Traffic management where appropriate - fencing, signage, and compliance with regulations.
- Contamination of controlled waters. Existing watercourses are to be isolated prior to any concreting works.
- Unexploded ordnance. Site risk assessment to be produced and recommendations followed during investigation.
- Presence of underground and overhead cables. Utility plans to be kept on site during the works. Positions of overhead electricity services and pylons to be noted.
- Presence of livestock in areas that are outside the designated working areas.

**MAINTENANCE/CLEANING:**

- Working near watercourses. No lone working and adjacent access tracks could ground vehicles.

**DECOMMISSIONING/DEMOLITION:**

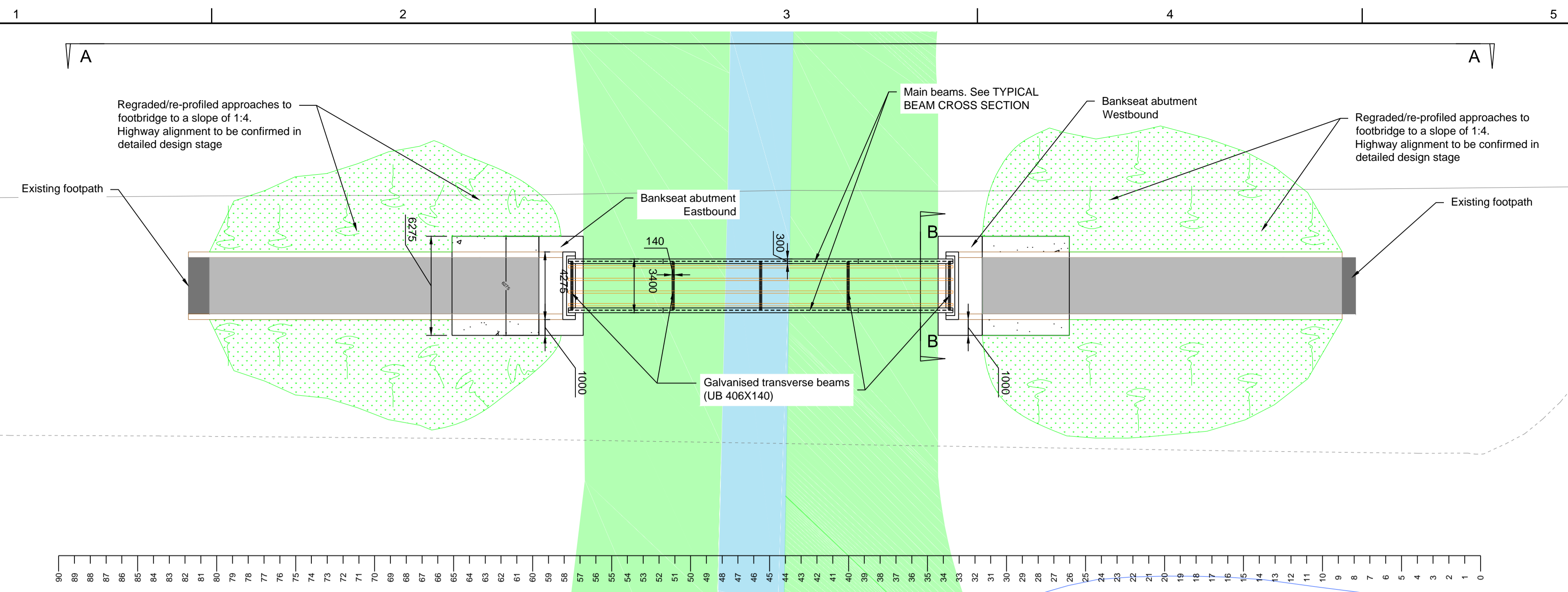
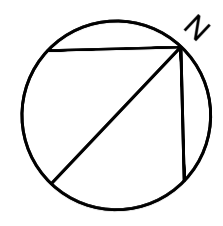
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

**DRAFT - INDICATIVE OUTLINE DESIGN**

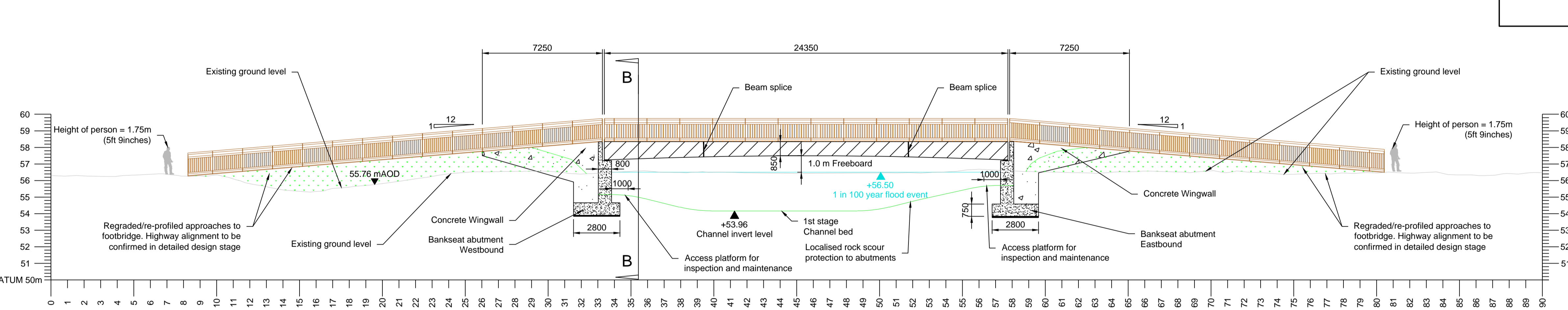
BURDEROP PARK Swinson, Wiltshire, SN4 0GD TEL: +44 1793 812 479		Environment Agency	
OXFORD FLOOD ALLEVIATION SCHEME OBC		Willow Walk to Devil's Backbone	
SCALE: AS SHOWN BAR IS 25mm ON ORIGINAL DRAWING. 0 25mm			
DATE	07/07/2016	PROJ	661656
DWG	A3.01.100	SHEET	1 of 1

THIS MAP IS REPRODUCED FROM ORDNANCE SURVEY MATERIAL BY HALCROW, A CH2M HILL COMPANY, ON BEHALF OF Environment Agency WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN COPYRIGHT. UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS. LICENCE: 10025452

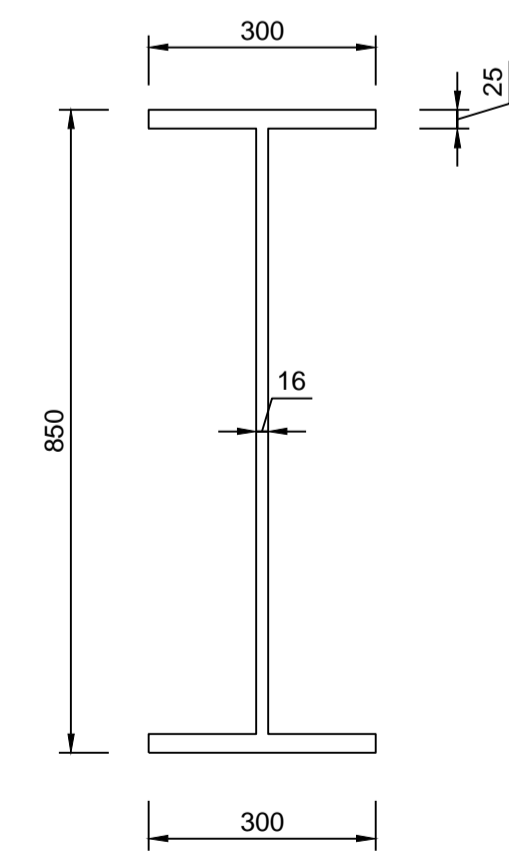
REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2013. ALL RIGHTS RESERVED.



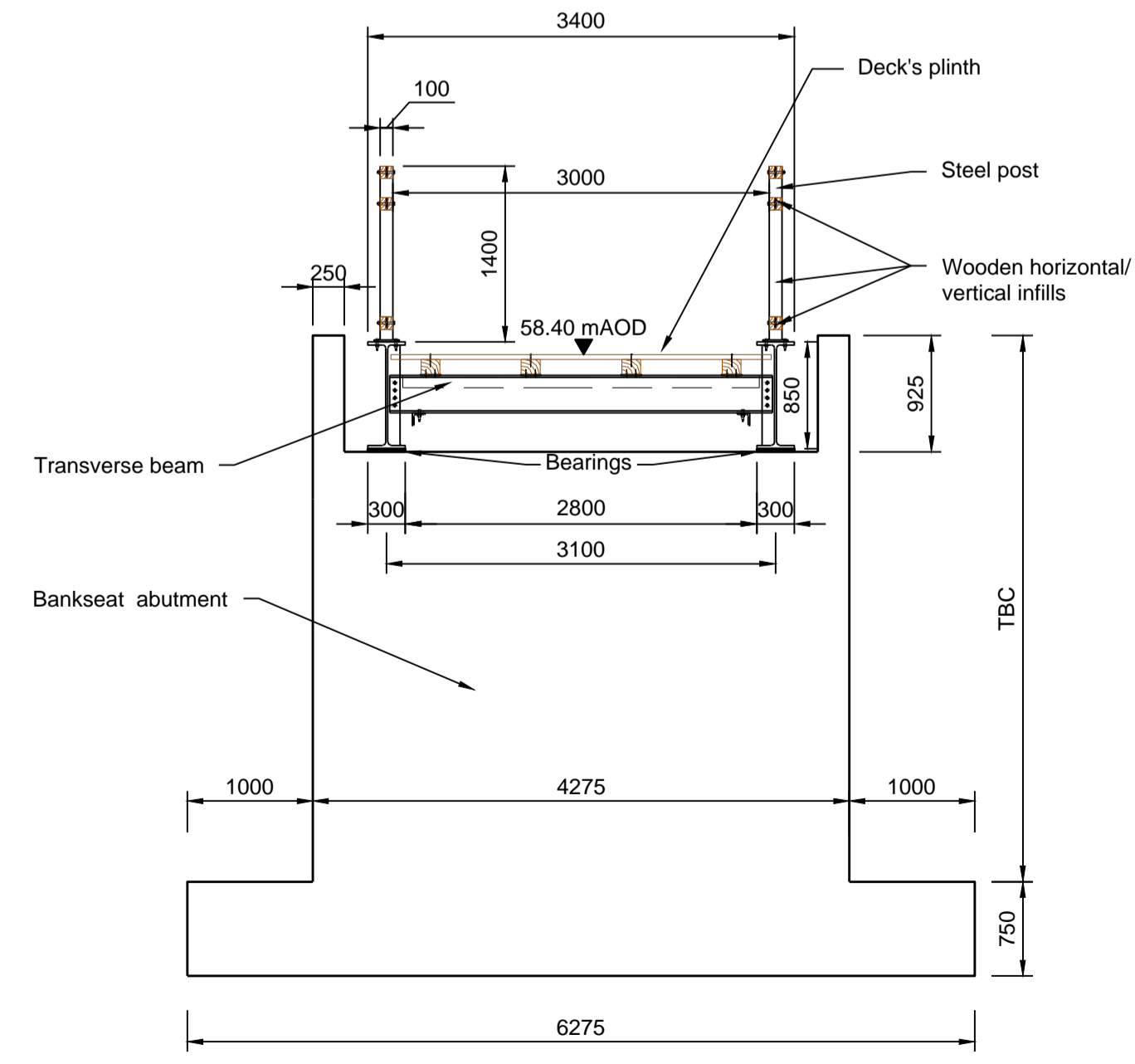
PLAN VIEW  
SCALE 1:200



ELEVATION A-A  
SCALE 1:150



TYPICAL BEAM CROSS SECTION  
SCALE 1:10



SECTION B-B  
SCALE 1:50

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

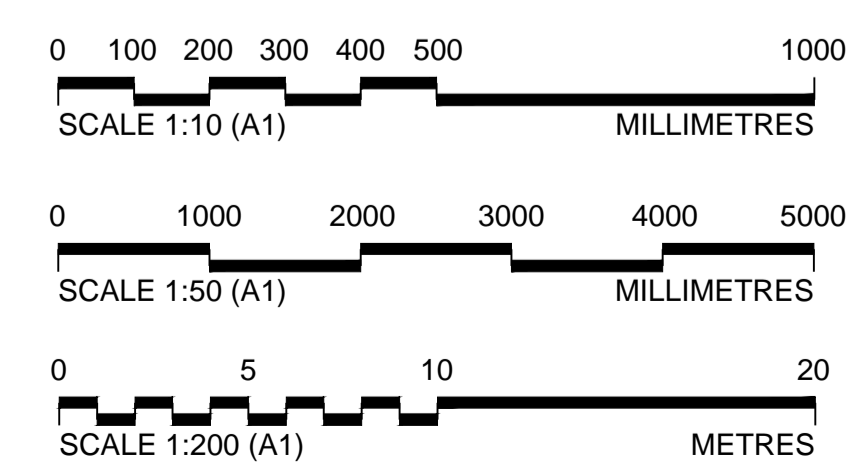
**CONSTRUCTION:**

- Areas of work adjacent to watercourses and high water table.
- Working near public right of way - Devils Backbone would need to be temporary closed during construction period. Traffic management where appropriate - fencing, signage, and compliance with regulations.
- Working from height on the bridge decking. Appropriate fall arrest systems and working platforms to be deployed
- Presence of underground and overhead services. Utility plans to be kept on site during the works. Positions of overhead electricity services and pylons to be noted.
- Contamination of watercourses. Isolation of watercourses during any concreting works would be required.

**MAINTENANCE/CLEANING:**

**DECOMMISSIONING/DEMOLITION:**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.



**GENERAL NOTES**

- All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

**NOTES**

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100 and A3.01.1100.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- New footbridge for combined use by pedestrians and cyclists. All structural steelwork will utilise structural steel Grade S355J2+N to BS EN 10025 - 2 : 2004.
- New footbridge designed for live load capacity of 5kN/m<sup>2</sup>.
- Hardwood is the preferred material for construction of the bridge, deck and parapets.
- New combined pedestrian and cyclist parapet in timber designed for Class 3 (TEC) live load and min. height 1400mm as specified in DMRB BD 29/04.
- All timber sourced from sustainable and legal sources. Certification by a qualified independent body provided to the Project Manager for approval prior to installation.
- The sizes of all the channels shown are only indicative and are subject to change.

**DRAFT - INDICATIVE OUTLINE DESIGN**

**LEGEND**

- Existing Watercourses
- New channel or widening of existing channel
- Statutory Undertakers Information
  - Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

DRG STATUS	DRG REV	1
DRAFT		
BY	APVD	PJM
ZO		
REVISION	CHK	APVD
DATE	DR	JK & KK
1 FINAL 22/07/2016		
CHANGES INCORPORATED FOLLOWING REVIEW BY EA		

Burderop Park  
Swindon, Wiltshire, SN4 0DD  
TEL: +44 1793 812 479

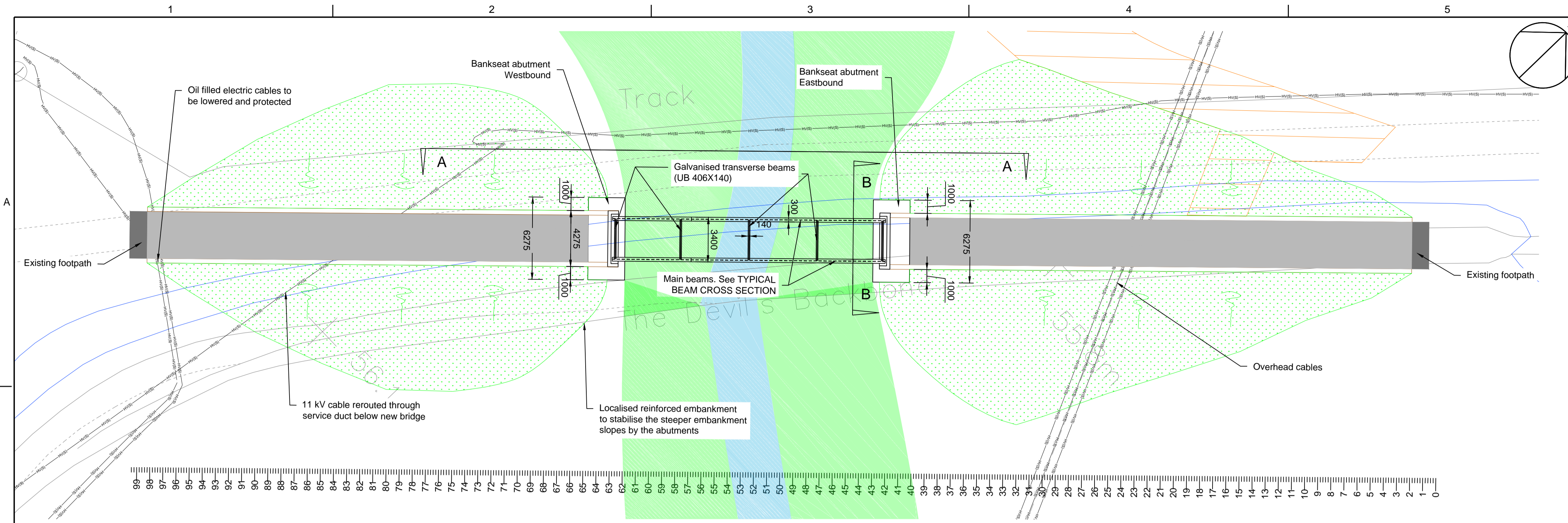
**Environment Agency**

OXFORD FLOOD ALLEVIATION SCHEME OBC  
AREA 3  
NEW FOOTBRIDGE AT  
MONKS CAUSEWAY

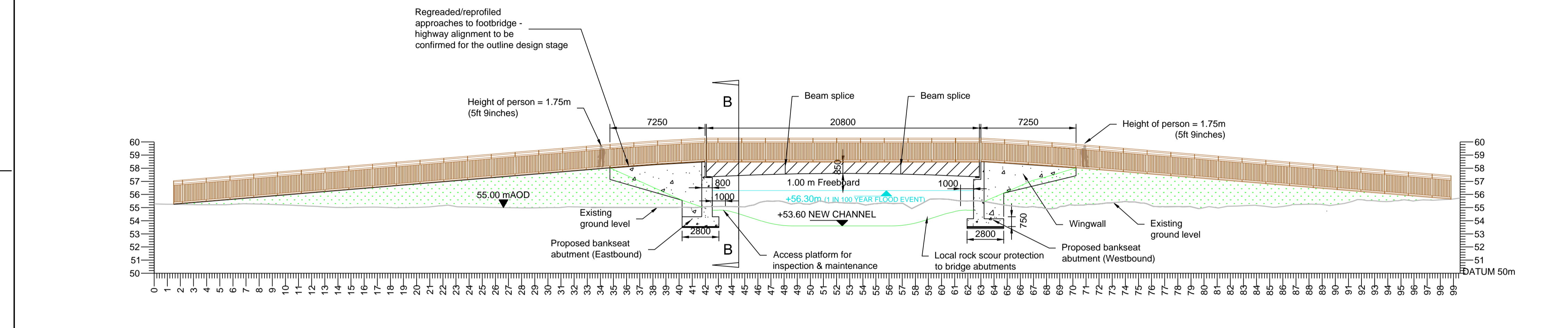
VERIFY SCALE  
BAR IS 25mm ON ORIGINAL DRAWING.  
0 25mm

DATE	07/07/2016
PROJ	661656
DWG	A3.03.100
SHEET	1 of 1

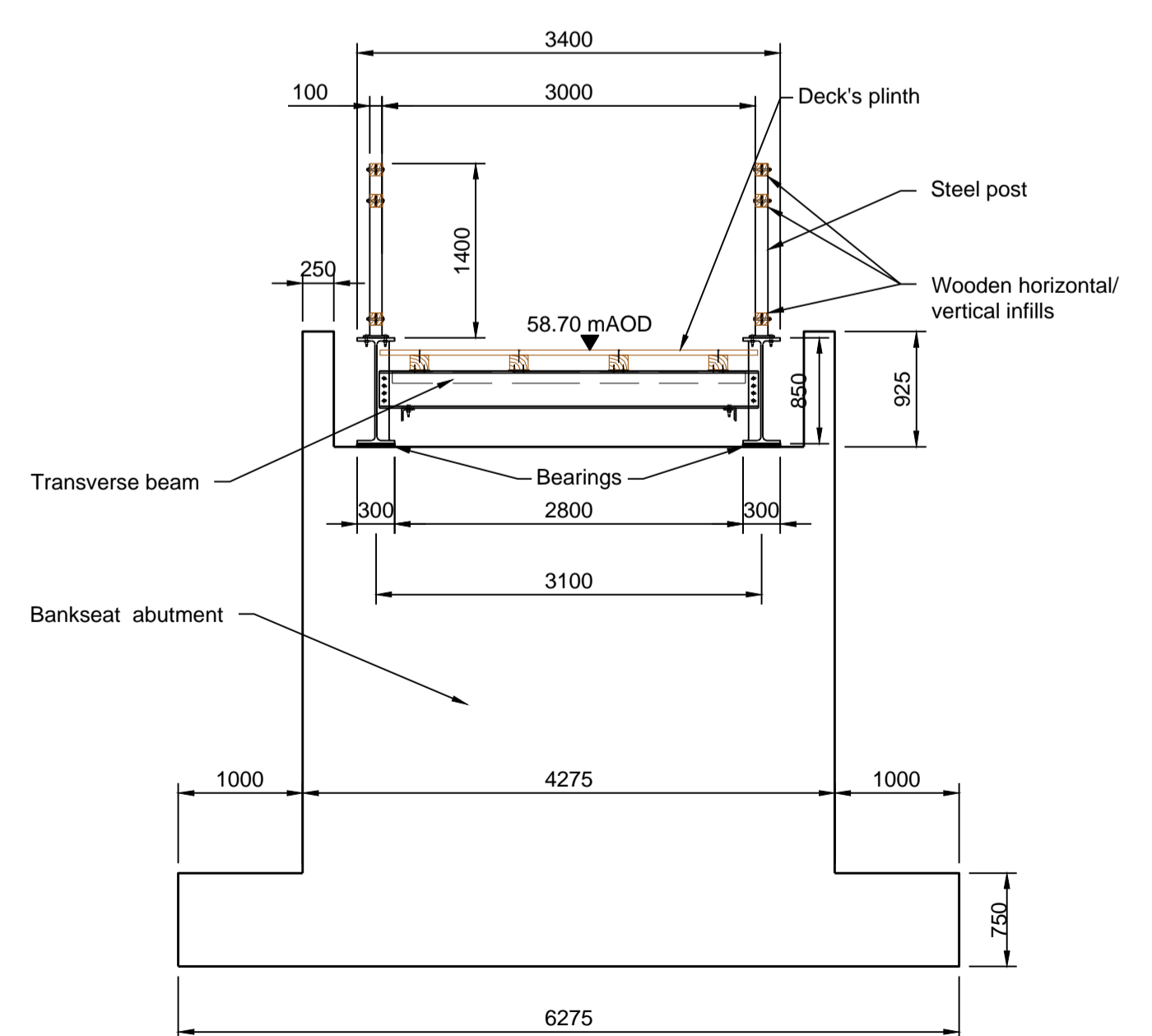
THIS MAP IS REPRODUCED FROM ORDNANCE SURVEY MATERIAL BY HALCGROW, A CH2M HILL COMPANY, ON BEHALF OF Environment Agency WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS. LICENCE 10026462



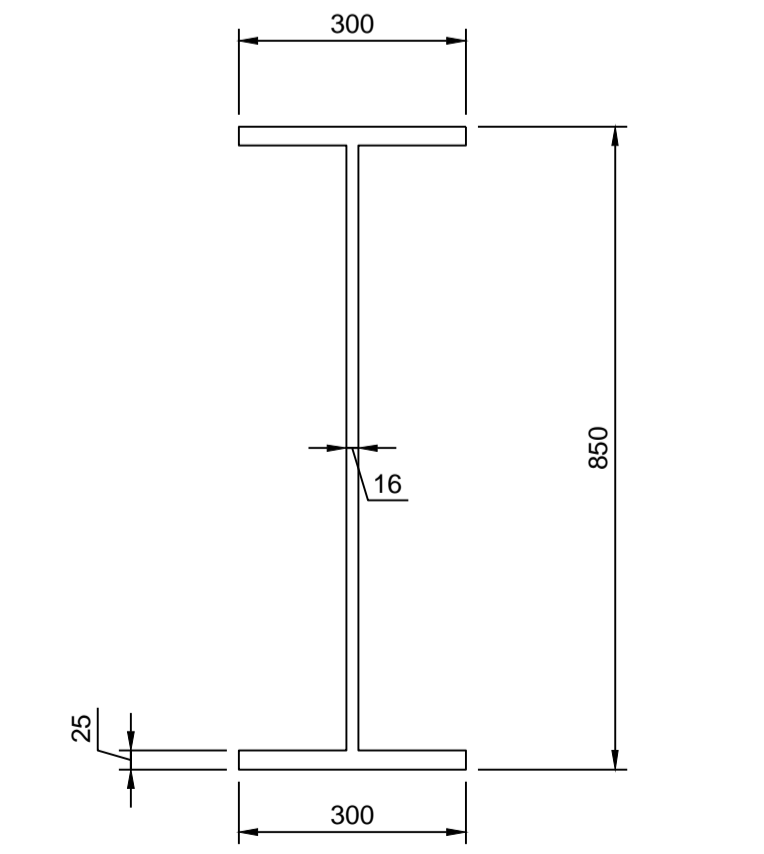
PLAN VIEW  
SCALE 1:200



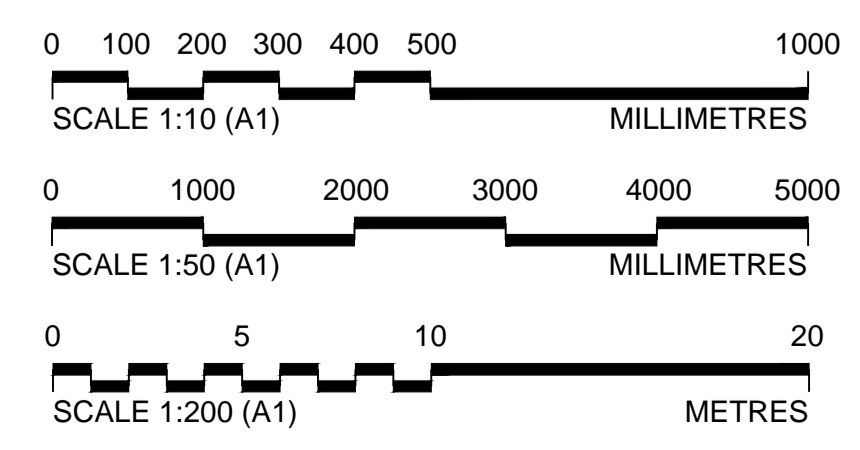
LONG SECTION A-A  
SCALE 1:200



SECTION B-B  
SCALE 1:50



TYPICAL BEAM CROSS SECTION  
SCALE 1:10



GENERAL NOTES

1. All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

NOTES

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100 and A3.01.1400.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- New footbridge for combined use by pedestrians and cyclists.
- New footbridge designed for live load capacity of 5kN/m<sup>2</sup>.
- Hardwood is the preferred material for construction of the bridge, deck and parapets.
- New combined pedestrian and cyclist parapet in timber designed for Class 3 (TBC) live load and min. height 1400mm as specified in BS 7818:1995.
- All timber sourced from sustainable and legal sources. Certification by a qualified independent body provided to the Project Manager for approval prior to installation.
- The sizes of all the channels shown are only indicative and are subject to change.
- There could be an opportunity to combine the 2 new proposed bridges (drawings A3.03.200 and A4.03.100) into a single bridge. Subject to confirmation in detailed design stage.

LEGEND

- Existing Watercourses
  - New / Modified First-Stage Channel
  - New Second-Stage Channel
- Statutory Undertakers Information
- Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

- Areas of work adjacent to watercourses and high water table.
- Working near public right of way - Devils Backbone would need to be temporary closed during construction period. Traffic management where appropriate - fencing, signage, and compliance with regulations.
- Working from height on the bridge decking. Appropriate fall arrest systems and working platforms to be deployed.
- Presence of underground and overhead services. Utility plans to be kept on site during the works. Positions of overhead electricity services and pylons to be noted.
- Contamination of watercourses. Isolation of watercourses during any concreting works would be required.

**MAINTENANCE/CLEANING:**

**DECOMMISSIONING/DEMOLITION:**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

**DRAFT - INDICATIVE  
OUTLINE DESIGN**

DRG STATUS	DRAFT	DRG REV	1
BY	PJM	APVD	PJM
ZO		REVISION	
CHANGES INCORPORATED FOLLOWING REVIEW BY EA		CHK	JS
DATE	22/07/2016	DR	VK & KK
REV STATUS	FINAL	DSGN	

Burderop Park  
Swinford, Wiltshire, SN4 0OD  
TEL: +44 1793 812 479

Environment Agency

OXFORD FLOOD ALLEVIATION SCHEME OBC  
AREA 3  
NEW FOOTBRIDGE AT  
DEVILS BACKBONE

**ch2m.**

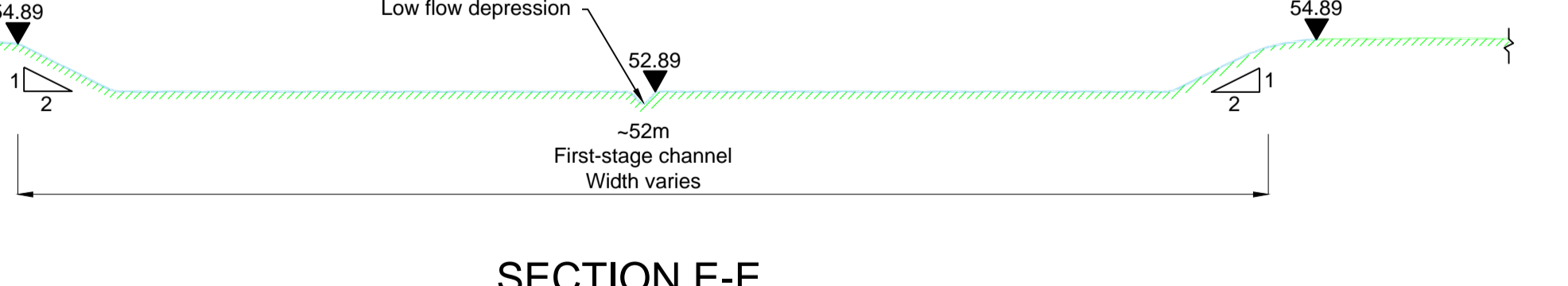
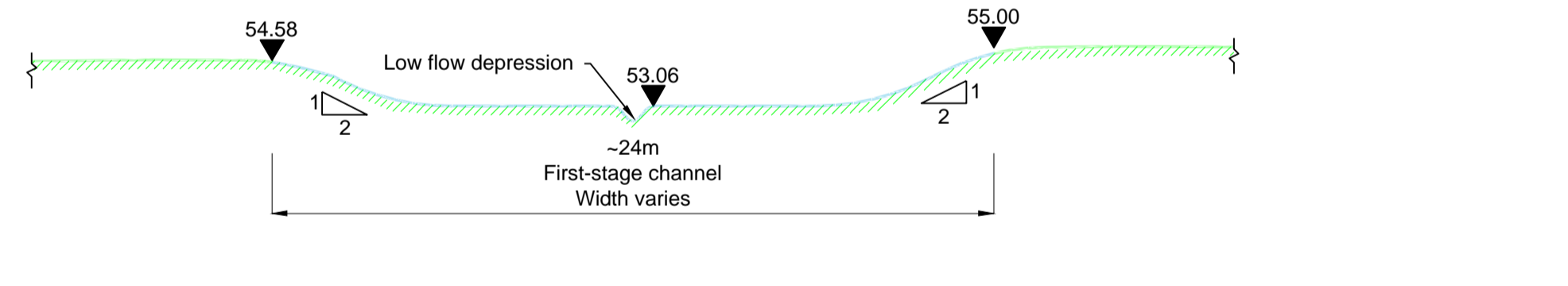
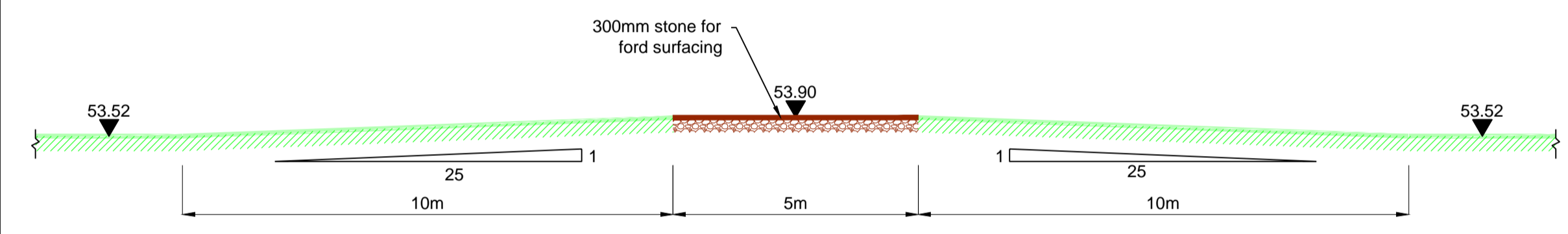
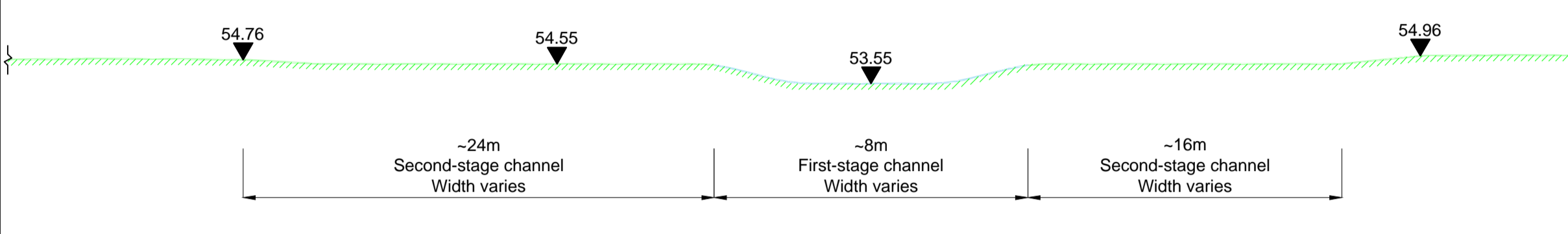
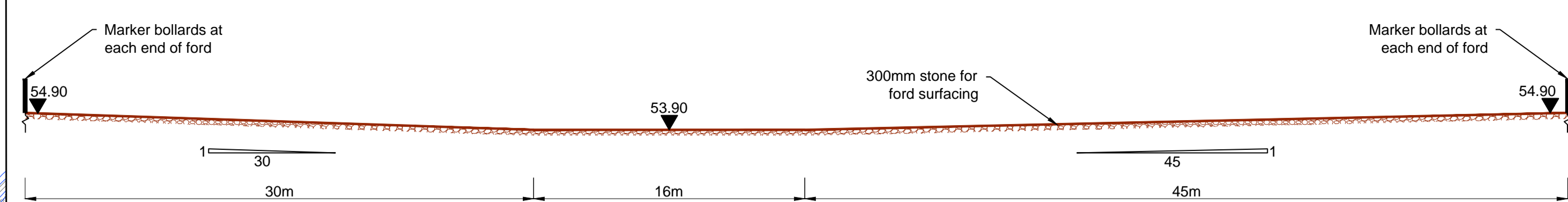
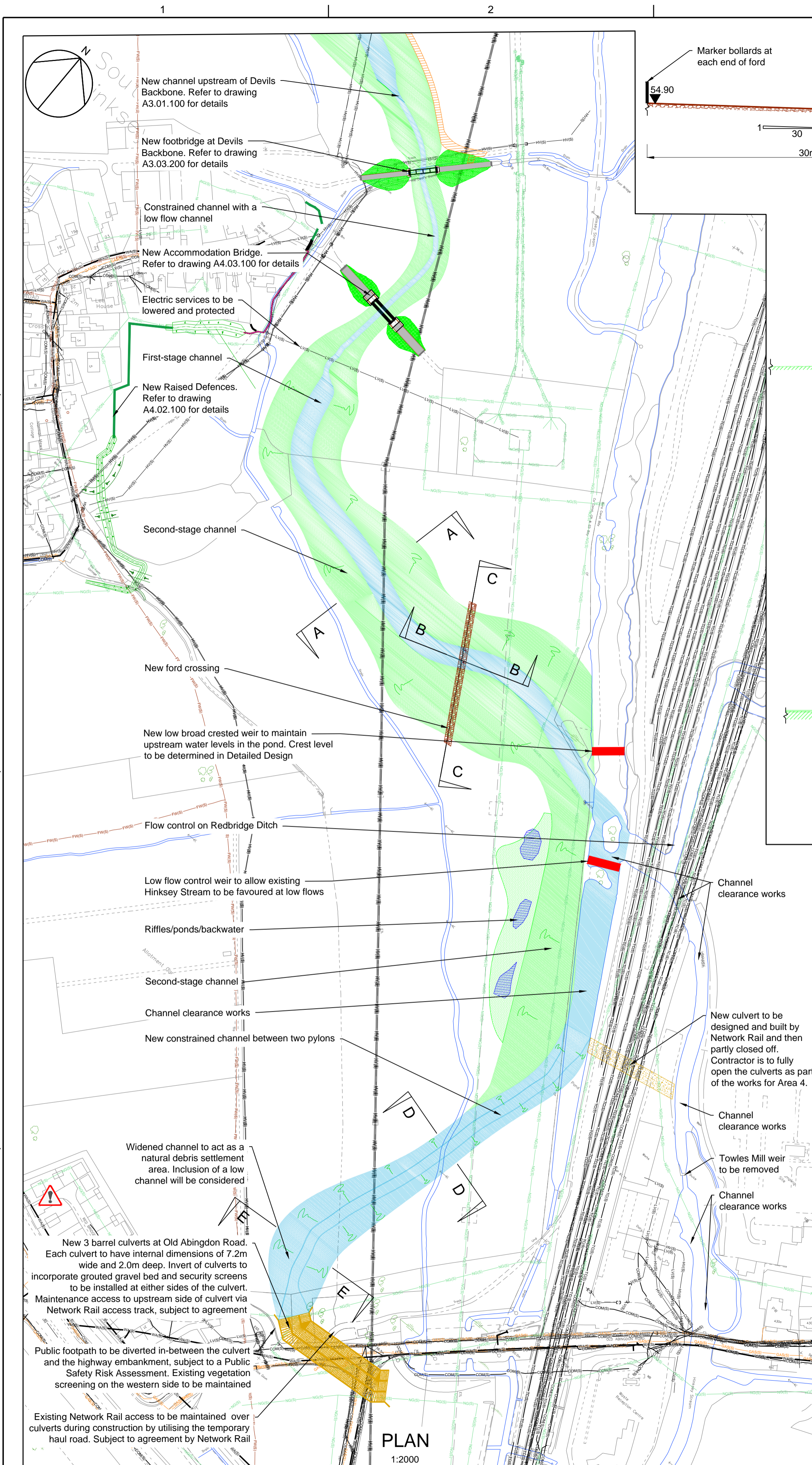
VERIFY SCALE  
BAR IS 25mm ON ORIGINAL DRAWING.  
0 25mm

DATE	07/07/2016
PROJ	661656
DWG	A3.03.200
SHEET	1 of 1

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

REUSE OF DOCUMENTS:

THIS MAP IS REPRODUCED FROM ORDNANCE SURVEY \*MATERIAL BY HALCROW, A CH2M HILL COMPANY, ON BEHALF OF Environment Agency WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN COPYRIGHT. UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS. LICENCE 10025452



THIS MAP IS REPRODUCED FROM ORDNANCE SURVEY MATERIAL BY HALCROW, A CH2M HILL COMPANY, ON BEHALF OF Environment Agency WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN COPYRIGHT. UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS. LICENCE 10026422

### GENERAL NOTES

1. All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

### NOTES

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100, A3.03.200, A4.03.100 and A4.01.200.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- The sizes of all the channels shown are only indicative and are subject to change.
- There could be an opportunity to combine the 2 new proposed bridges (drawings A3.03.200 and A4.03.100) into a single bridge. Subject to confirmation in detailed design stage.

### LEGEND

- Existing Watercourses
- New permanent watercourse
- New Second-Stage Channel
- Flow control structures
- Wetland features (scrapes, backwaters)
- Localised scrub + tree planting
- Localised widening of channel/ low-level berms

- #### Statutory Undertakers Information
- Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

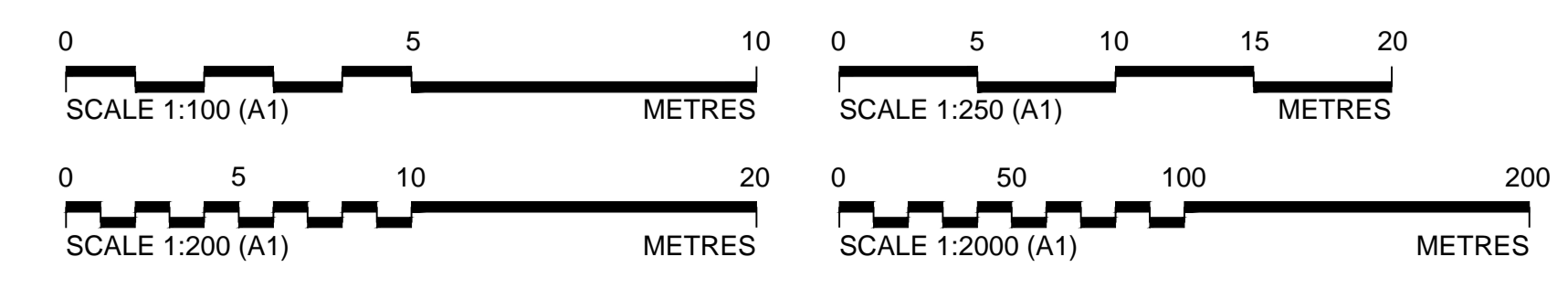
- Areas of work adjacent to watercourses and there is a risk of drowning. Temporary works required to isolate working area from water. Machines to be operated at furthest point from watercourses. No lone working within the vicinity of a watercourse.
- Working near public rights of way - Old Abingdon Road, Kennington Road, etc. Traffic management where appropriate. Fencing, signs and compliance with regulations. Also access permission from Network Rail must be sought prior to accessing Network Rail land.
- Contamination of controlled waters. Existing watercourses are to be isolated prior to any concreting works. There are works within a historic landfill site - possible presence of contaminated material.
- Unexploded ordnance. Site risk assessment to be produced and recommendations followed during investigation.
- Presence of underground and overhead cables. Utility plans to be kept on site during the works. Position of overhead electricity pylons to be noted.
- Known potential registered hostile site - status of registration to be confirmed prior to attending site. Safety and security advice to be sought prior attending site.

**MAINTENANCE/CLEANING:**

- Working near watercourses. No lone working and adjacent access tracks could ground vehicles.
- Access permission from Network Rail must be sought prior accessing Network Rail land.

**DECOMMISSIONING/DEMOLITION:**

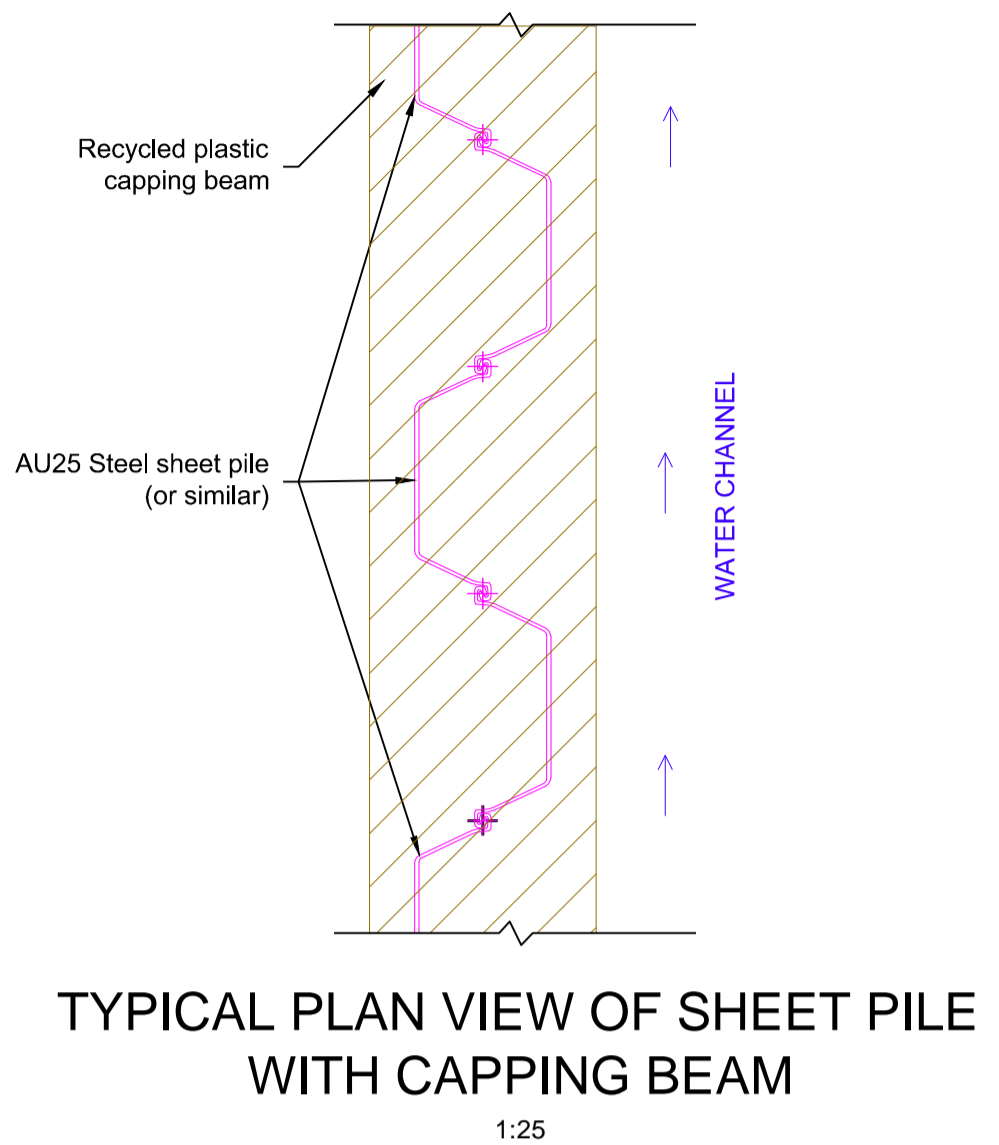
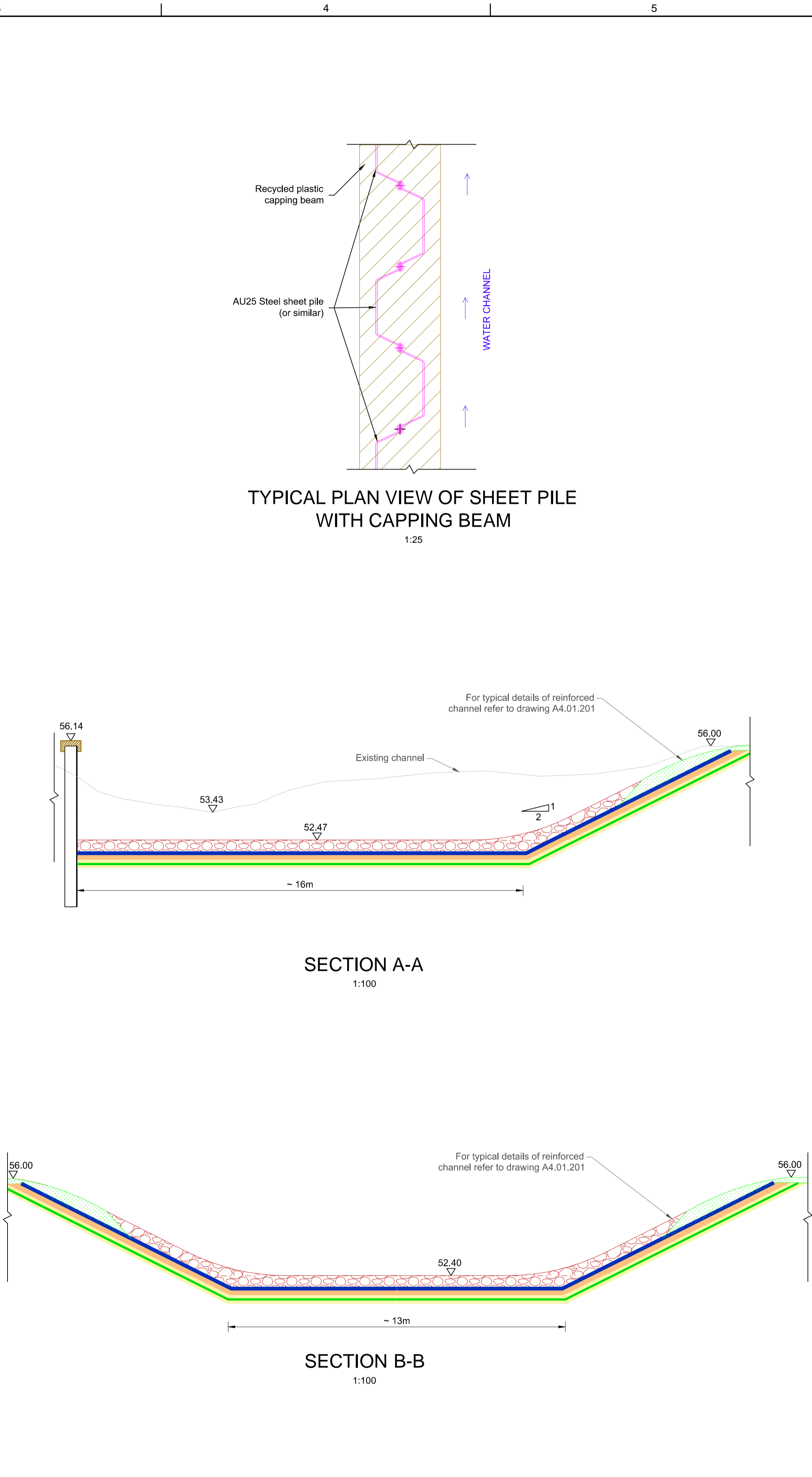
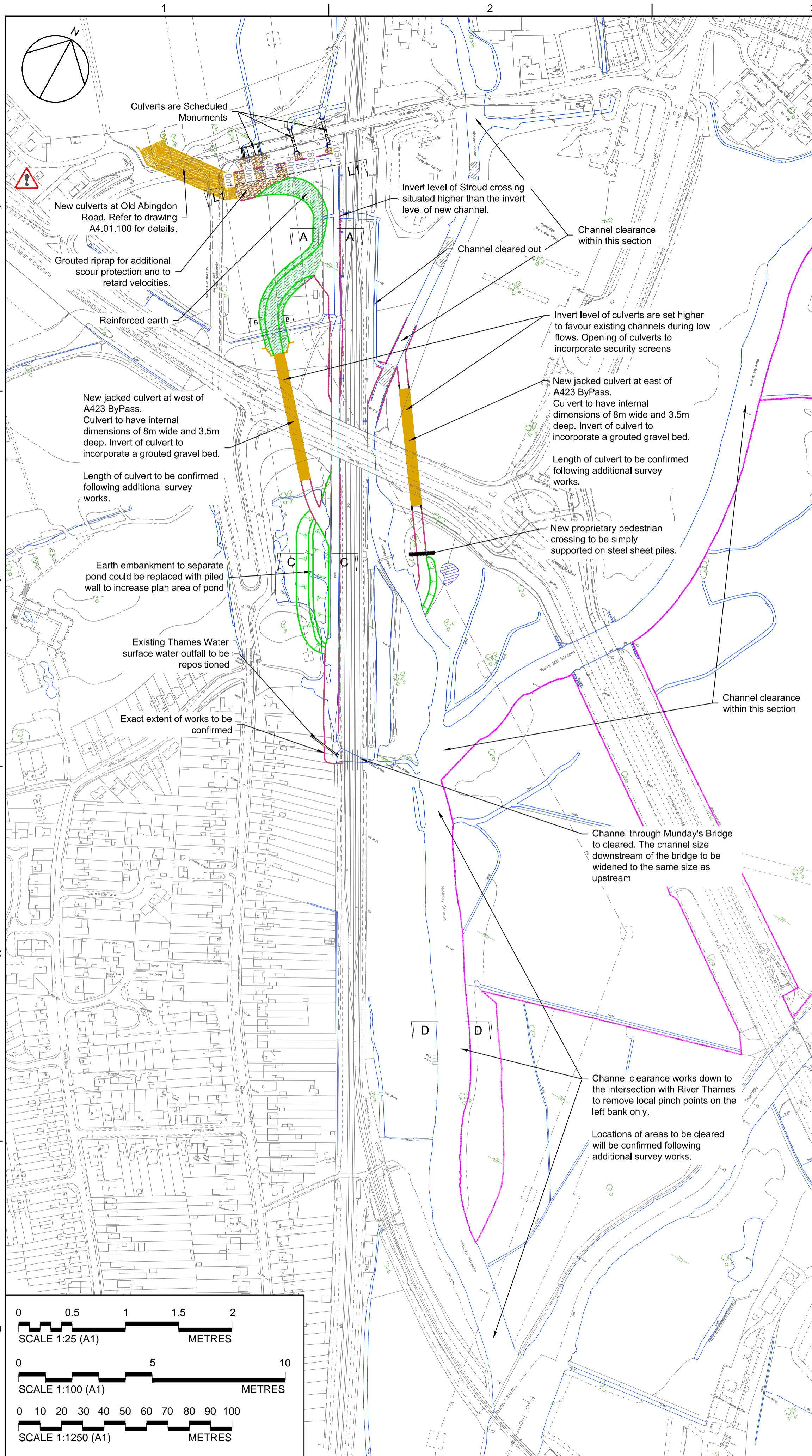
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.



DRAFT - INDICATIVE OUTLINE DESIGN

Burderop Park Swindon, Wiltshire SN4 0GD TEL: +44 1793 812 479		Environment Agency	
OXFORD FLOOD ALLEVIATION SCHEME OBC	AREA 4 GENERAL ARRANGEMENT OF CHANNELS NORTH OF OLD ABINGDON ROAD (SHEET 1 OF 2)		
SCALE 1:2000 BAR IS 25mm ON ORIGINAL DRAWING. 0 25mm			
DATE	07/07/2016	PROJ	661656
DWG	A4.01.100	SHEET	1 of 1

© CH2M HILL 2013. ALL RIGHTS RESERVED. THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. REUSE OF DOCUMENTS:



**GENERAL NOTES**

1. All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

**NOTES**

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100, A4.01.100 and A4.01.201.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- The sizes of all the channels shown are only indicative and are subject to change.

**LEGEND**

- Existing Watercourses
- Wetland features (scrapes, backwaters)
- Low-level berms / Riffles
- Sheet pile with concrete facing
- Indicative boundary of Site of Specific Scientific Interest (SSI)

- Statutory Undertakers Information**
- Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

- Areas of work adjacent to watercourses and there is a risk of drowning. Temporary works required to isolate working area from water. Machines to be operated at furthest point from watercourses. No lone working within the vicinity of a watercourse.
- Working near public rights of way - Old Abingdon Road, Kennington Road, etc. Traffic management where appropriate. Fencing, signs and compliance with regulations. Also, access permission from Network Rail must be sought prior to accessing Network Rail.
- Contamination of controlled waters. Existing watercourses are to be isolated prior to any concreting works. There are works within a historic landfill site - possible presence of contaminated material.
- Unexploded ordnance. Site risk assessment to be produced and recommendations followed during investigation.
- Presence of underground and overhead cables. Utility plans to be kept on site during the works. Position of overhead electricity pylons to be noted.
- Known potential registered host site - status of registration to be confirmed prior to attending site. Safety and security advice to be sought prior attending site.

**MAINTENANCE/CLEANING:**

- Working near watercourses. No lone working and adjacent access tracks could ground vehicles.
- Access permission from Network Rail must be sought prior to accessing Network Rail land.

**DECOMMISSIONING/DEMOLITION:**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

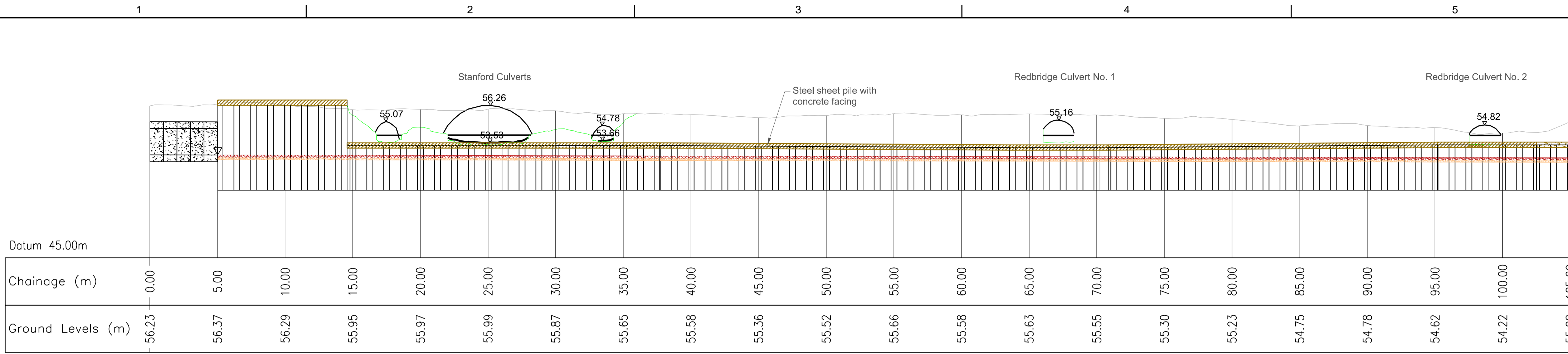
**DRAFT - INDICATIVE OUTLINE DESIGN**

THIS MAP IS REPRODUCED FROM ORDNANCE SURVEY MATERIAL BY HALCROW, A CH2M HILL COMPANY, ON BEHALF OF Environment Agency WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN COPYRIGHT. UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS. LICENCE 10025452

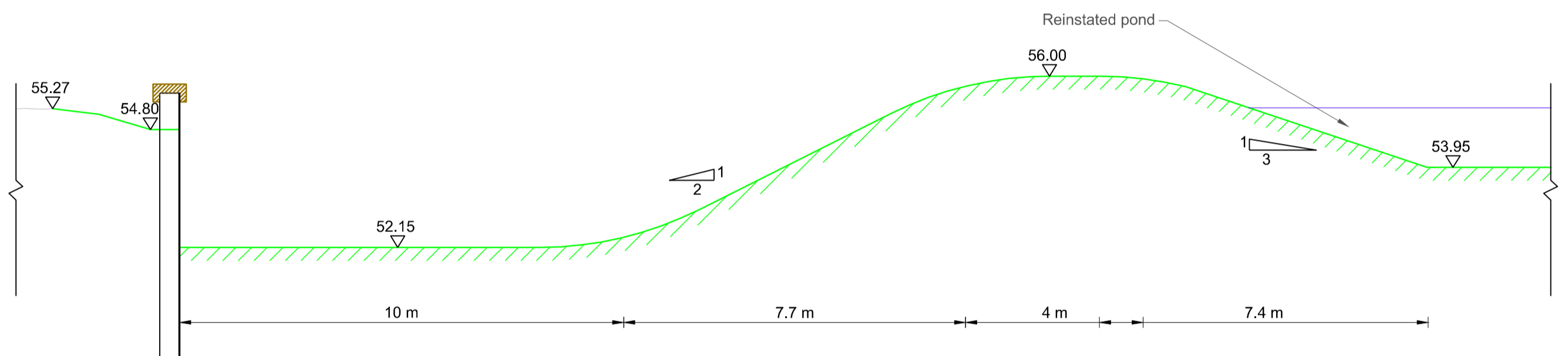
PLAN  
1:2500

BURDEROP PARK SWINDON, WILTSHIRE SN4 0OD TEL: +44 1793 812 479		Environment Agency	
OXFORD FLOOD ALLEVIATION SCHEME OBC AREA 4 GENERAL ARRANGEMENT OF CHANNELS SOUTH OF OLD ABINGDON ROAD (SHEET 1 OF 2)			
DATE	07/07/2016	PROJ	661656
DWG	A4.01.200	SHEET	1 of 1
REV	1	DATE	29/07/2016
DRG STATUS	DRAFT	BY	APVD
DRG REV	1	CHK	KCH
		APVD	APVD
		DR	DR
		DATE	29/07/2016
		REV	1
		FINAL	1
		CHANGES INCORPORATED FOLLOWING REVIEW BY EA	ZO
		SYK	SYK

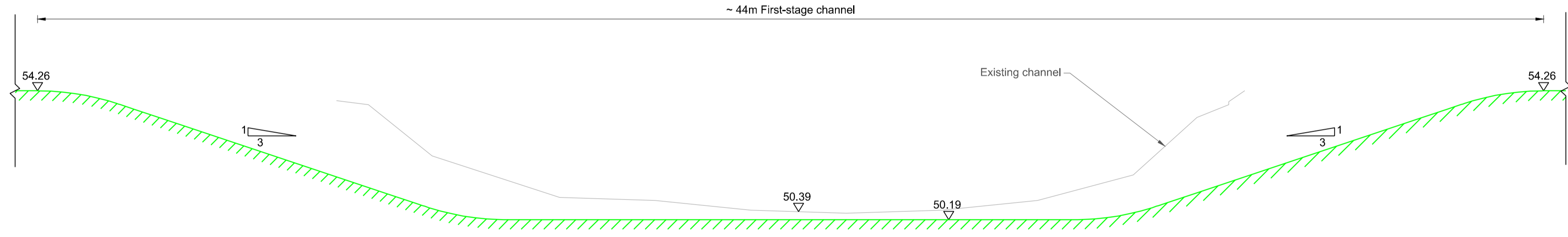
© CH2M HILL 2013. ALL RIGHTS RESERVED.  
THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.



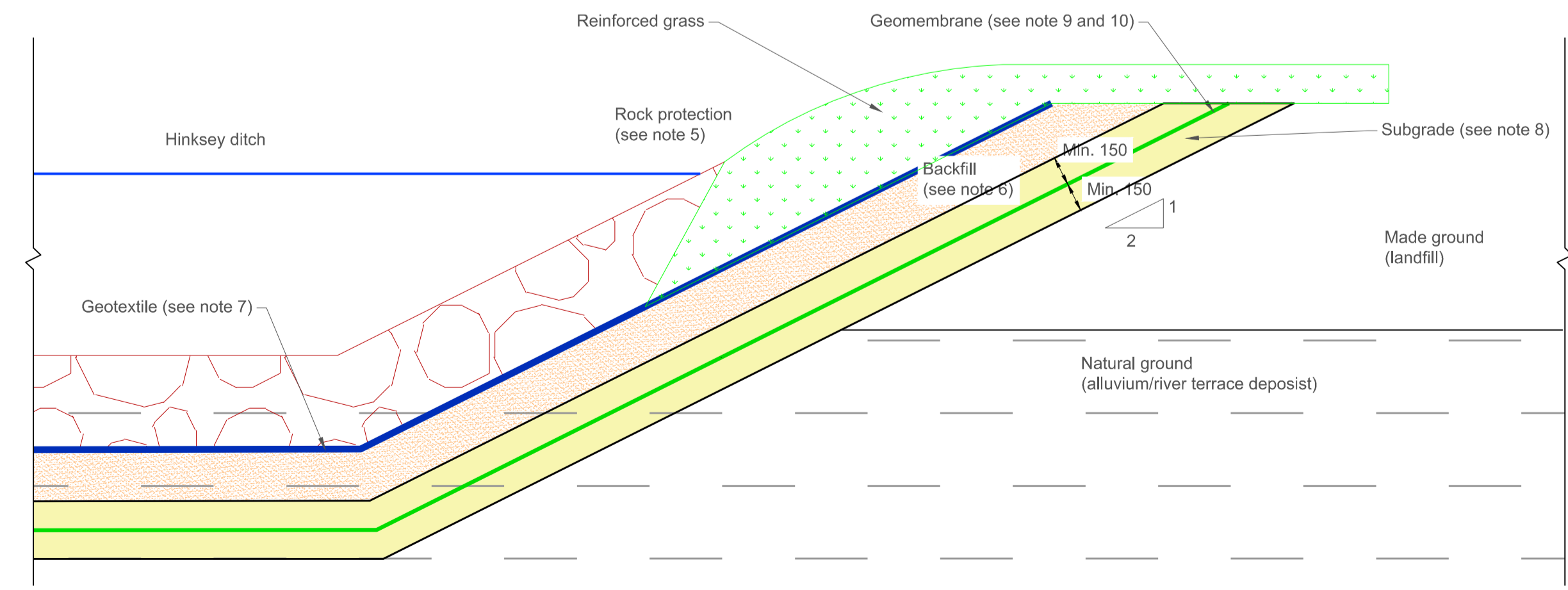
LONG SECTION 1-1  
1:200



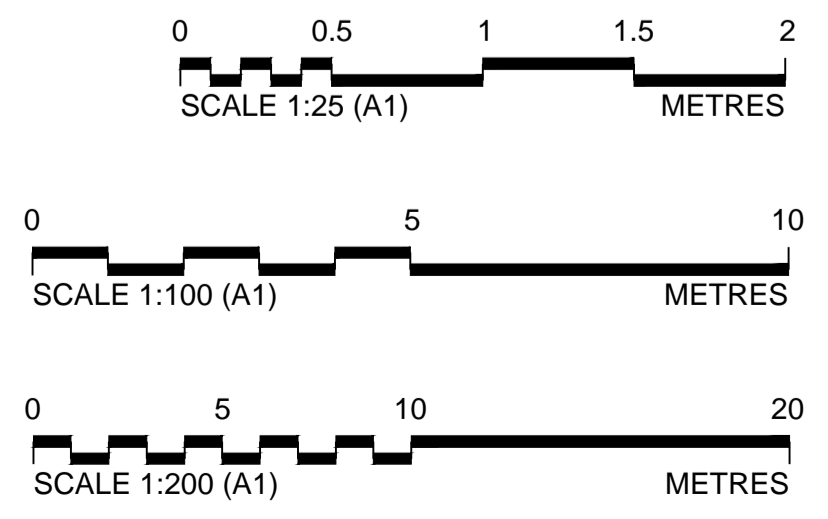
SECTION C-C  
1:100



SECTION D-D  
1:100



TYPICAL SECTION OF REINFORCED CHANNEL AT LANDFILL AREAS  
1:25



GENERAL NOTES

1. All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAO) Newlyn.

NOTES

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawing A4.01.200.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- The sizes of all the channels shown are only indicative and are subject to change.
- Rock to have Dn50= 135 mm.
- Backfill to the Specification for Highways Works Class 6A (self-compacting fill) or similar.
- Geotextile to be Tencate Polyfelt F80 or similar.
- Subgrade to be sand and fine gravel with max. size 10mm and no fines content.
- Geomembrane to be MacLine SDH or similar.
- Temporary slope angle to be agreed on site with technical supervisor. Geomembrane supplier indicate a 1 in 2 slope possible. Environmental Agency guidance (LEF5) recommends a maximum 20 degrees slope is possible.

NO.	DATE	BY	CHK	DRG STATUS	DRG REV
1	29/07/2016	APVD	KCH	DRAFT	1

Burderop Park  
Swindon, Wiltshire SN4 0OD  
TEL: +44 1793 812 479

Environment Agency

OXFORD FLOOD ALLEVIATION SCHEME OBC  
AREA 4  
GENERAL ARRANGEMENT OF CHANNELS  
SOUTH OF OLD ABINGDON ROAD (SHEET 2 OF 2)

DATE	07/07/2016
PROJ	661656
DWG	A4.01.201
SHEET	1 of 1

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

- Areas of work adjacent to watercourses and there is a risk of drowning. Temporary works required to isolate working area from water. Machines to be operated at furthest point from watercourses. No lone working within the vicinity of a watercourse.
- Working near public rights of way - Old Abingdon Road, Kennington Road, etc. Traffic management where appropriate. Fencing, signs and compliance with regulations. Also, access permission from Network Rail must be sought prior to accessing Network Rail.
- Contamination of controlled waters. Existing watercourses are to be isolated prior to any concreting works. There are works within a historic landfill site - possible presence of contaminated material.
- Unexploded ordnance. Site risk assessment to be produced and recommendations followed during investigation.
- Presence of underground and overhead cables. Utility plans to be kept on site during the works. Position of overhead electricity pylons to be noted.
- Known potential registered host site - status of registration to be confirmed prior to attending site. Safety and security advice to be sought prior attending site.

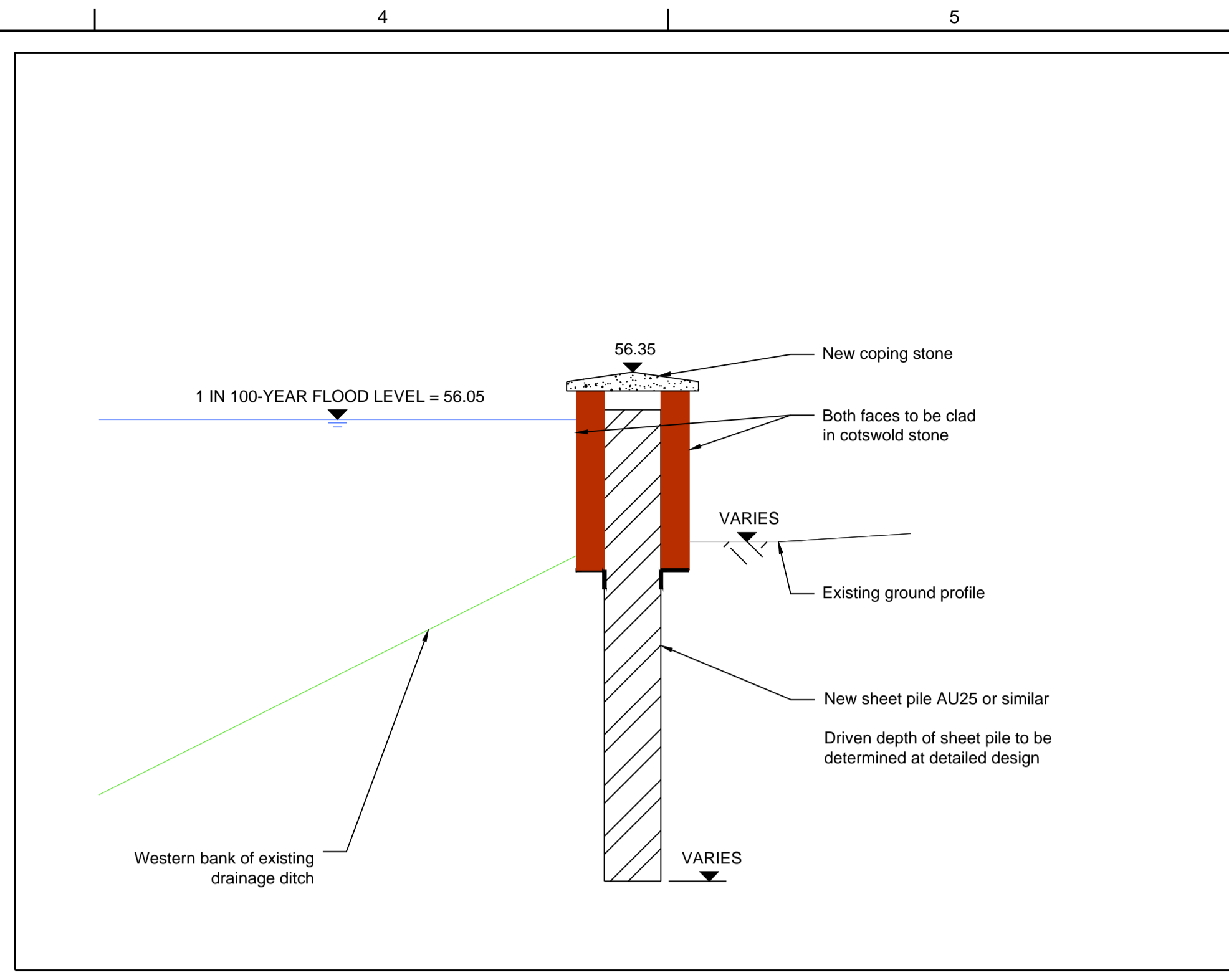
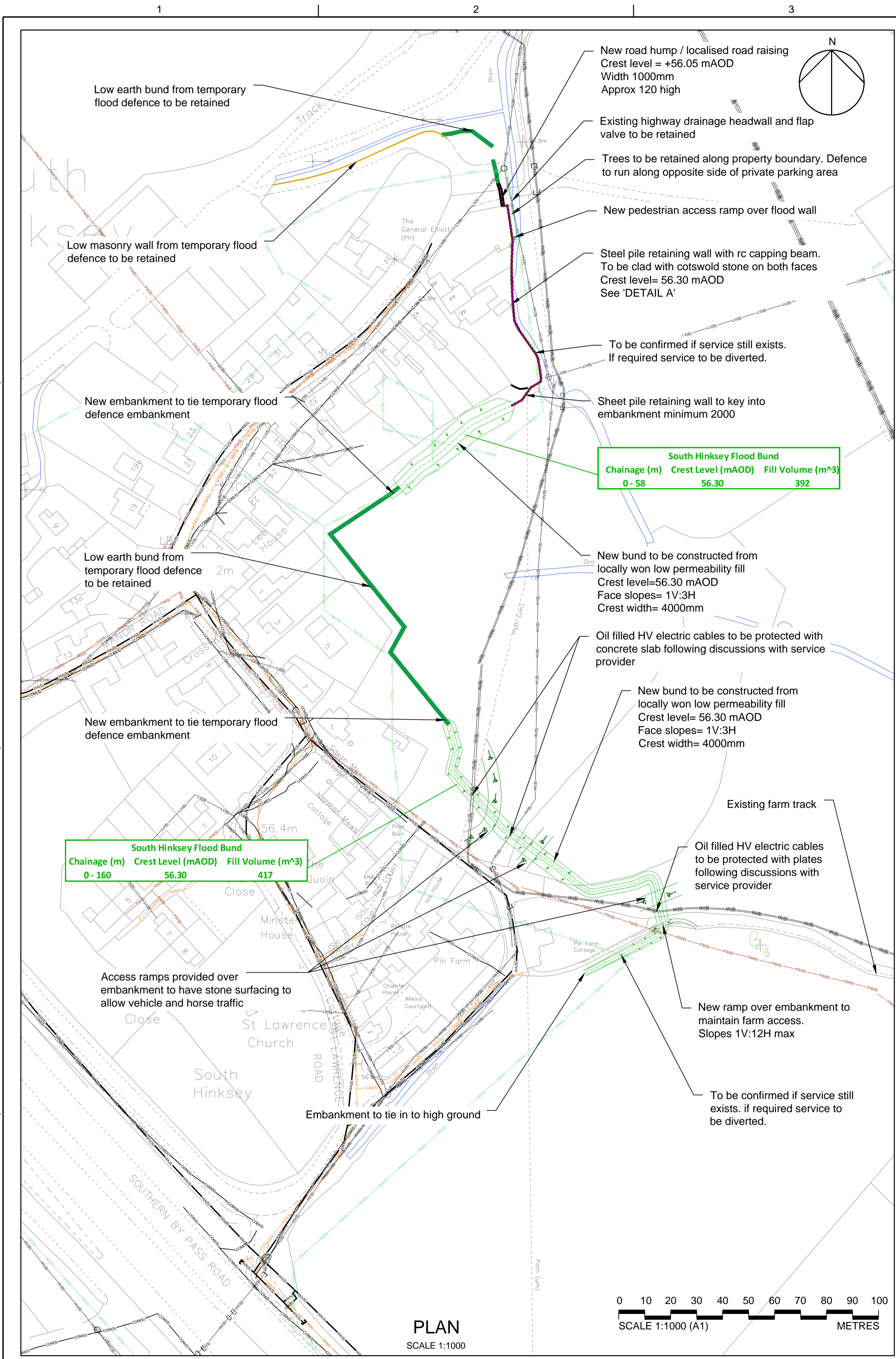
**MAINTENANCE/CLEANING:**

- Working near watercourses. No lone working and adjacent access tracks could ground vehicles.
- Access permission from Network Rail must be sought prior to accessing Network Rail land.

**DECOMMISSIONING/DEMOLITION:**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

**DRAFT - INDICATIVE OUTLINE DESIGN**



**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

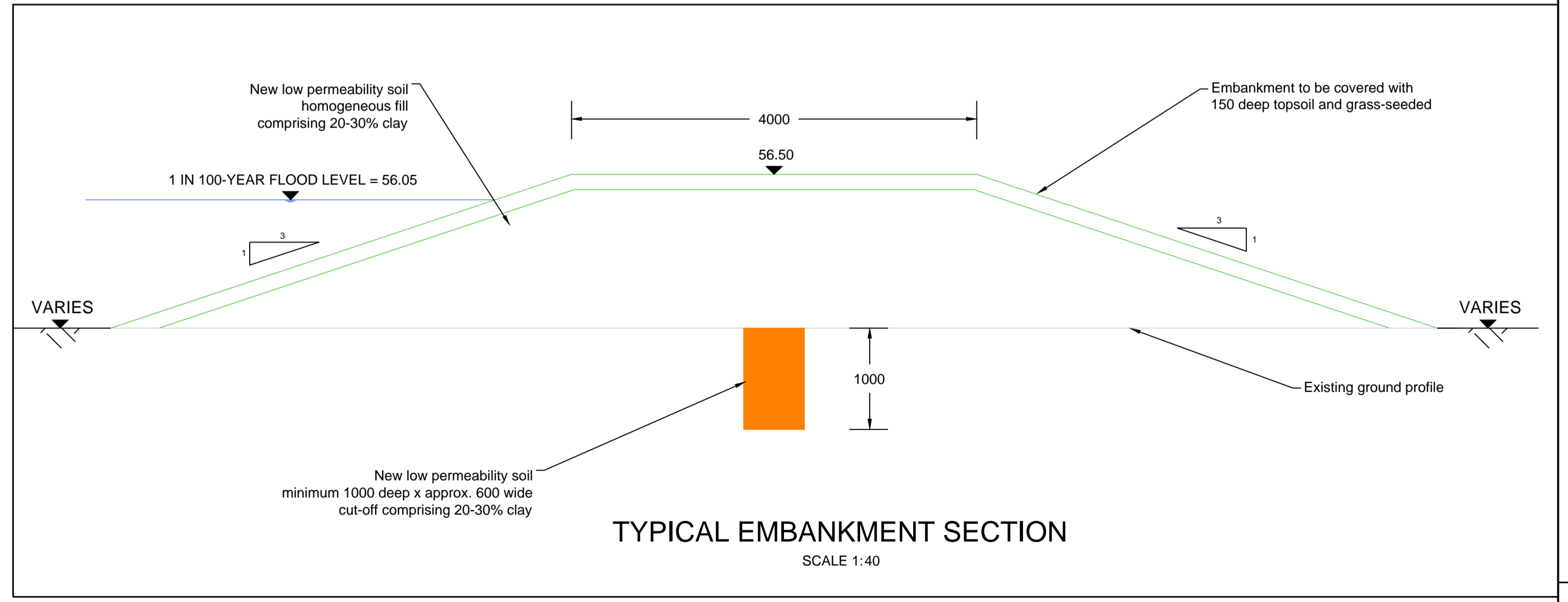
- Areas of work adjacent to watercourses and there is a risk of drowning. Temporary works required to isolate working area from water. Machines to be operated at furthest point from watercourses. No lone working within the vicinity of a watercourse.
- Working near public rights of way / occupied buildings. Traffic management where appropriate. Fencing, signs and compliance with regulations. Access to electric compound to be maintained at all times.
- Contamination of controlled waters - watercourses to be isolated prior to any concreting works.
- Unexploded ordnance. Site risk assessment to be produced and recommendations followed during investigation.
- Presence of underground and overhead services. Risk to underground cables whilst driving sheet piles - trial pits to be dug prior sheet piling to confirm location of services.
- The local footpaths and access tracks would require closing during construction. Diversions will be in place where possible.

**MAINTENANCE/CLEANING:**

- Working at heights - access vehicles to stay clear from the edges of the flood bund.

**DECOMMISSIONING/DEMOLITION:**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.



**GENERAL NOTES**

- All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

**NOTES**

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- The services locations shown in this drawing are indicative and based on information received (C2 Returns) from Service Providers in March 2015. Prior to commencing any excavations, the exact positions of buried services should be confirmed on site by electro locations tools and hand dug trial holes.

**LEGEND**

- Existing Watercourses
- Sheet pile with coping stone

**Statutory Undertakers Information**

- Communications
- Electricity cable (High Voltage)
- Electricity cable (Low Voltage)
- Gas main
- Gas main (Low Pressure)
- Water main
- Drainage - Foul Water
- Drainage - Surface Water
- Drainage - Combined
- National Grid

REV	STATUS	DATE	DR	CHK	APPV	DRG STATUS	DRG REV
1	FINAL	29/07/2016	DR	ABB	ABB	DRAFT	1

Burderop Park  
Swindon, Wiltshire, SN4 0GD  
TEL: +44 1793 812 479

**Environment Agency**

**ch2m**

OXFORD FLOOD ALLEVIATION SCHEME OBC  
AREA 4  
**RAISED FLOOD DEFENCES AT SOUTH HINKSEY**

VERIFY SCALE	BAR IS 25mm ON ORIGINAL DRAWING.
DATE	07/07/2016
PROJ	661656
DWG	A4.02.100
SHEET	of

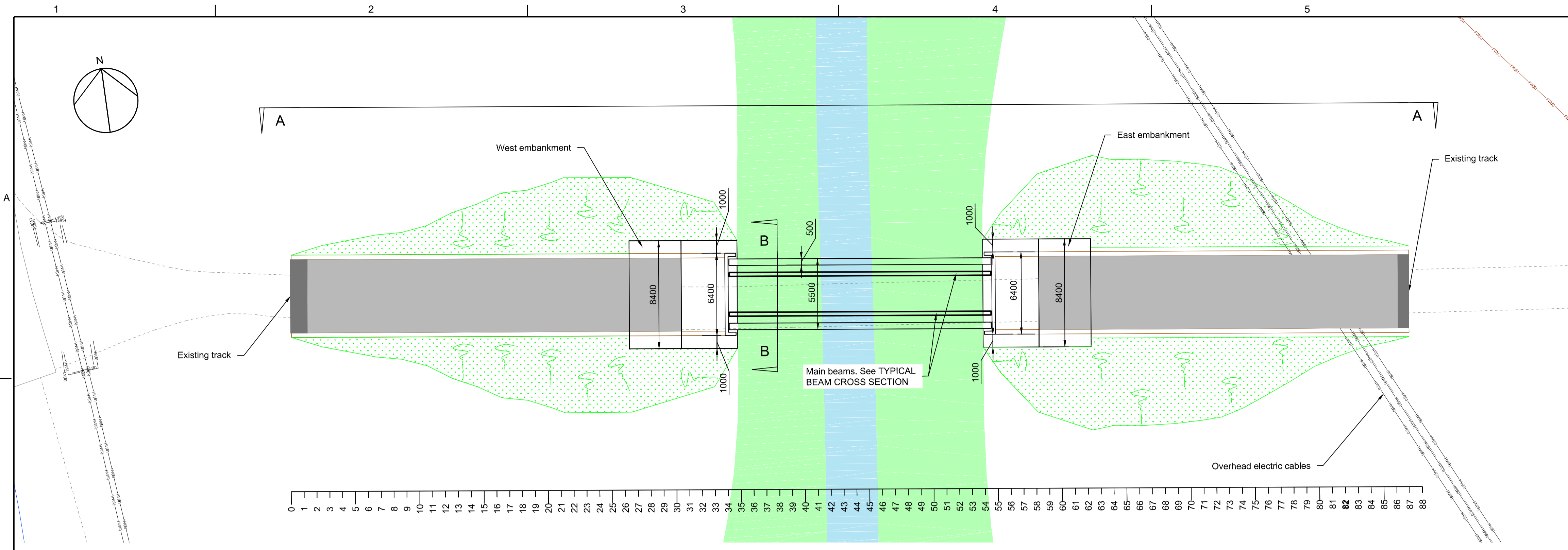
**DRAFT - INDICATIVE OUTLINE DESIGN**

THIS MAP IS REPRODUCED FROM ORDNANCE SURVEY \*MATERIAL BY HALCROW, A CH2M HILL COMPANY, ON BEHALF OF Environment Agency WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN COPYRIGHT. UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS. LICENCE 10025452

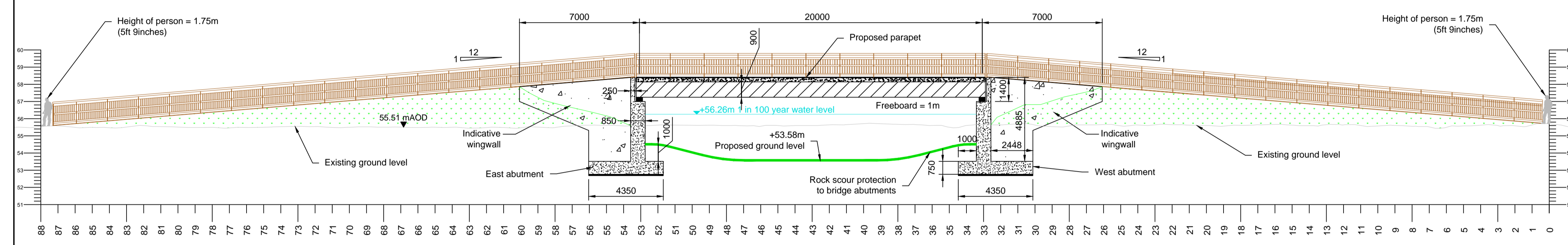
REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2013. ALL RIGHTS RESERVED.



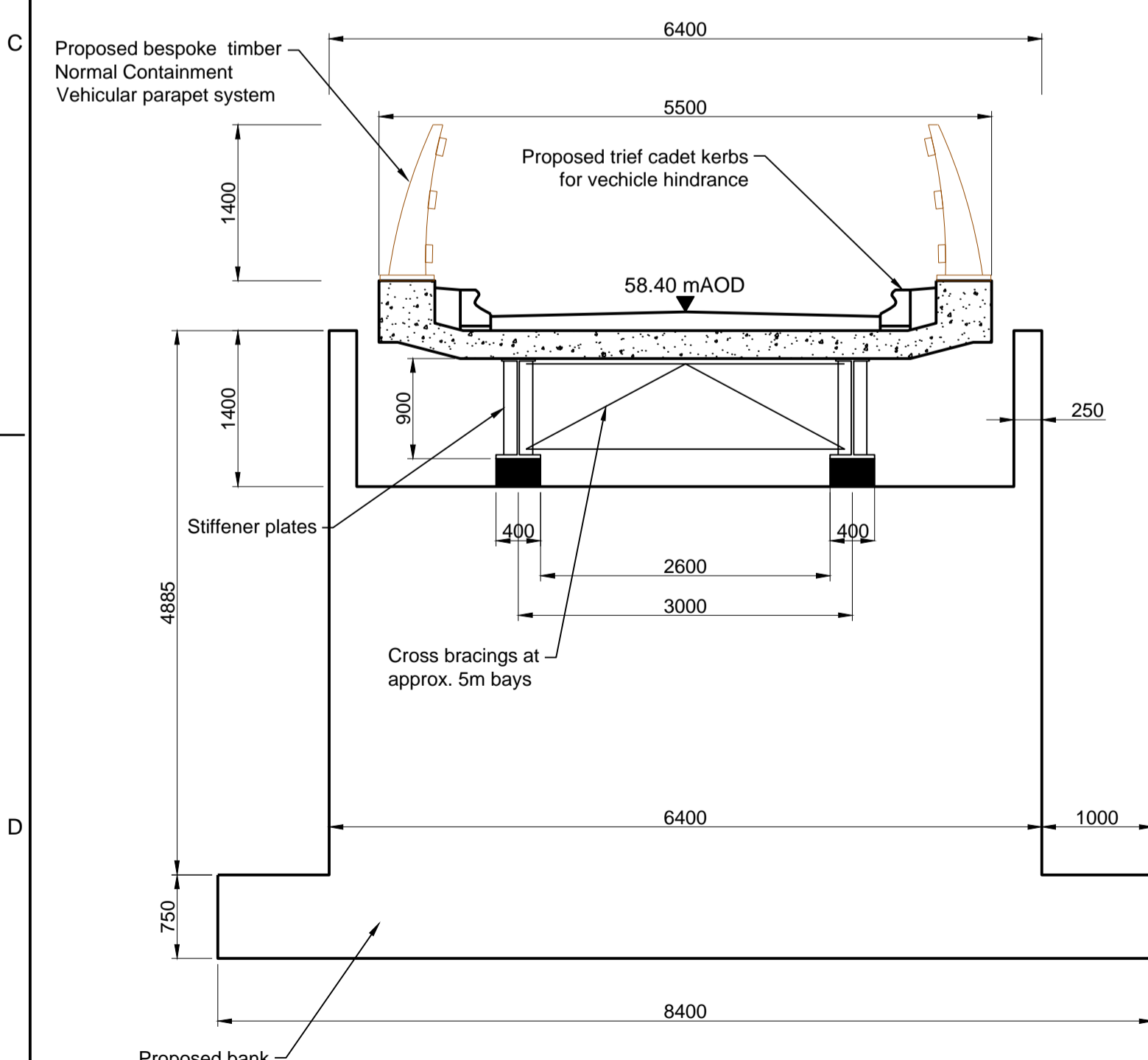




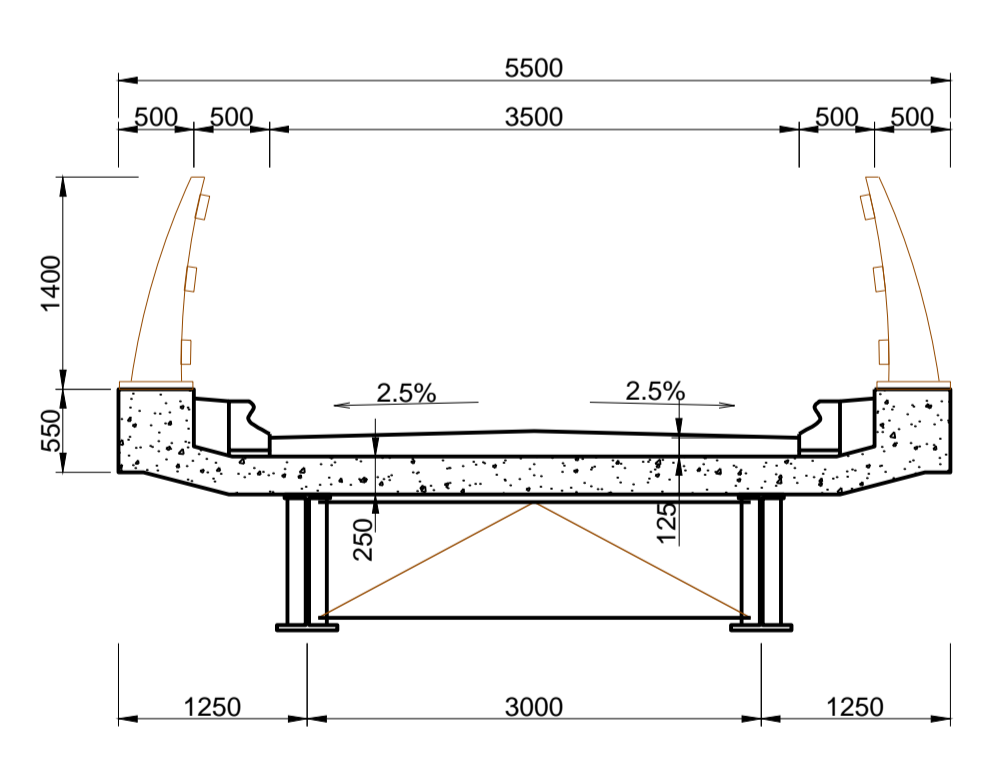
PLAN VIEW  
SCALE 1:200



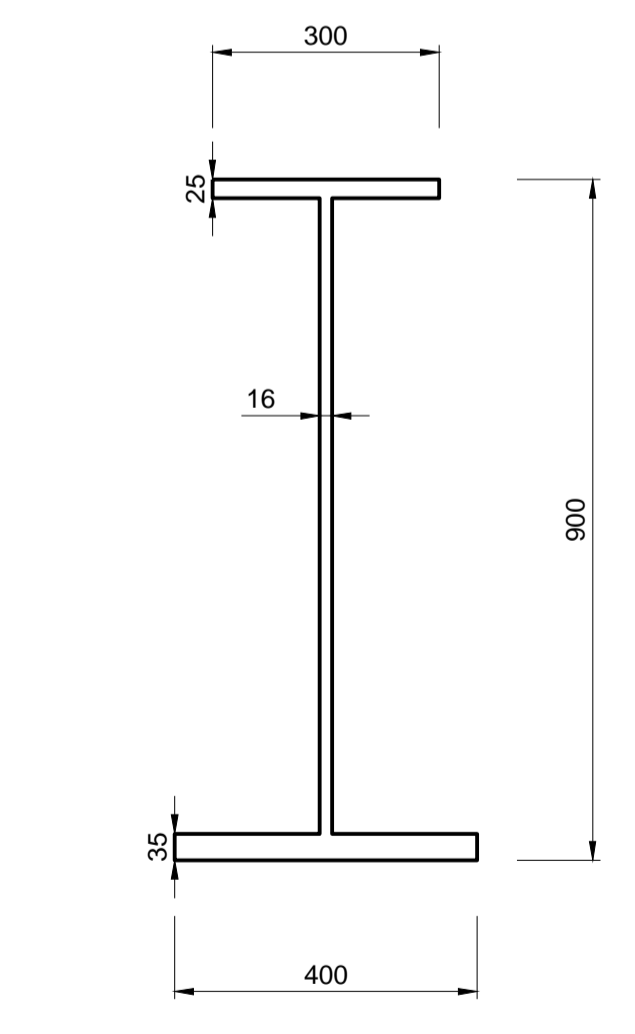
ELEVATION A-A  
SCALE 1:150



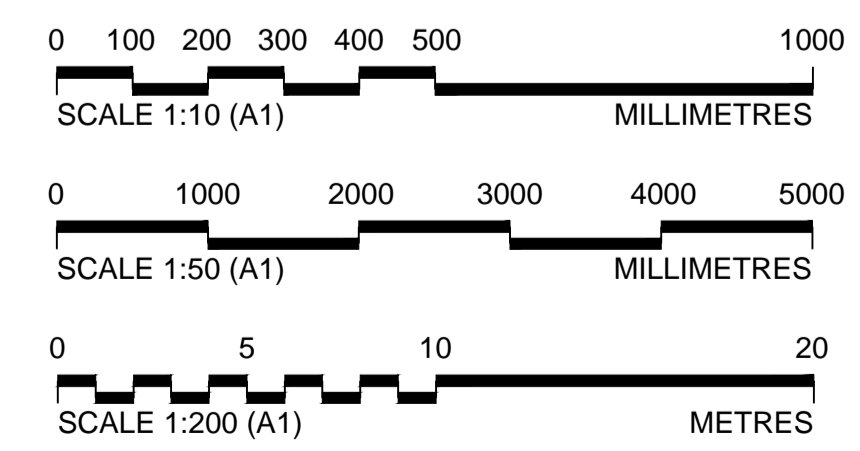
SECTION SHOWING ABUTMENT  
SCALE 1:50



SECTION THROUGH COMPOSITE DECK OPTION  
SCALE 1:50



TYPICAL BEAM CROSS SECTION  
SCALE 1:10



GENERAL NOTES

- All dimensions are in millimetres unless otherwise stated. All levels are in metres above Ordnance Datum (mAOD) Newlyn.

NOTES

- Proposals and details shown are preliminary and all drawings are indicative. Also the details shown could change to accommodate considerations for temporary works and access of construction vehicles.
- This drawing is to be read in conjunction with drawings ZZ.00.100 and A4.01.100.
- The services locations shown in this drawing are only indicative and based on information received (C2 Returns) from Service Providers in March 2015.
- New Accommodation Bridge for combined use by pedestrians, cyclists and vehicles. All structural steelwork will utilise structural steel Grade S355J2+N to BS EN 10025 - 2 : 2004.
- New accommodation bridge is designed for BS EN 1991-2 traffic load models LM1 and LM2 and for pedestrians, LM4 in accordance with Eurocode standard BS EN 1992-2 'Actions on structures'.
- An As Low As Reasonably Practicable (ALARP) assessment of the proposed bespoke parapet system will be undertaken in accordance with TD19/06 to review the containment level of the proposed system in view of installing trief cadet kerbs to fulfil vehicle containment. Parapet height to be 1400mm.
- All timber sourced from sustainable and legal sources. Certification by a qualified independent body provided to the Project Manager for approval prior to installation.
- The sizes of all the channels shown are only indicative and are subject to change.
- There could be an opportunity to combine the 2 new proposed bridges (drawings A3.03.200 and A4.03.100) into a single bridge. Subject to confirmation in detailed design stage.

LEGEND

- Existing Watercourses
  - New channel or widening of existing channel
  - New / Modified First-Stage Channel
  - New Second-Stage Channel
- Statutory Undertakers Information
- Communications
  - Electricity cable (High Voltage)
  - Electricity cable (Low Voltage)
  - Gas main
  - Gas main (Low Pressure)
  - Water main
  - Drainage - Foul Water
  - Drainage - Surface Water
  - Drainage - Combined
  - National Grid

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION:**

- Areas of work adjacent to watercourses and high water table.
- Working near public rights of way - vehicular access to the electric sub-station to be maintained at all times. Traffic management where appropriate. Fencing, signs and compliance with regulations.
- Working from height on the bridge decking. Appropriate fall arrest systems and working platforms to be deployed.
- Presence of underground and overhead services. Utility plans to be kept on site during the works. Position of overhead electricity pylons to be noted.
- Contamination of watercourses. Isolation of watercourses during any concreting works would be required.

**MAINTENANCE/CLEANING:**

**DECOMMISSIONING/DEMOLITION:**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

**DRAFT - INDICATIVE OUTLINE DESIGN**

DRG STATUS	DRAFT	DRG REV	1
BY	ZO	APVD	PJM
REVISION	CHK	APVD	JS
DATE	29/07/2016	DR	VK & KK
REV STATUS	1 FINAL	DATE	
CHANGES INCORPORATED FOLLOWING REVIEW BY EA			

Burderop Park  
Swindon, Wiltshire, SN4 0OD  
TEL +44 1793 812 479

**Environment Agency**

OXFORD FLOOD ALLEVIATION SCHEME OBC  
**AREA 4**  
**NEW ACCOMMODATION BRIDGE AT 100m SOUTH OF DEVILS BACKBONE**

VERIFY SCALE  
BAR IS 25mm ON ORIGINAL DRAWING.  
0 25mm

DATE	07/07/2016
PROJ	661656
DWG	A4.03.100
SHEET	1 of 1

THIS MAP IS REPRODUCED FROM ORDNANCE SURVEY. MATERIAL BY HALCROW, A CH2M HILL COMPANY, ON BEHALF OF Environment Agency WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN COPYRIGHT. UNAUTHORISED REPRODUCTION INFRINGES CROWN COPYRIGHT AND MAY LEAD TO PROSECUTION OR CIVIL PROCEEDINGS. LICENCE: 10025452