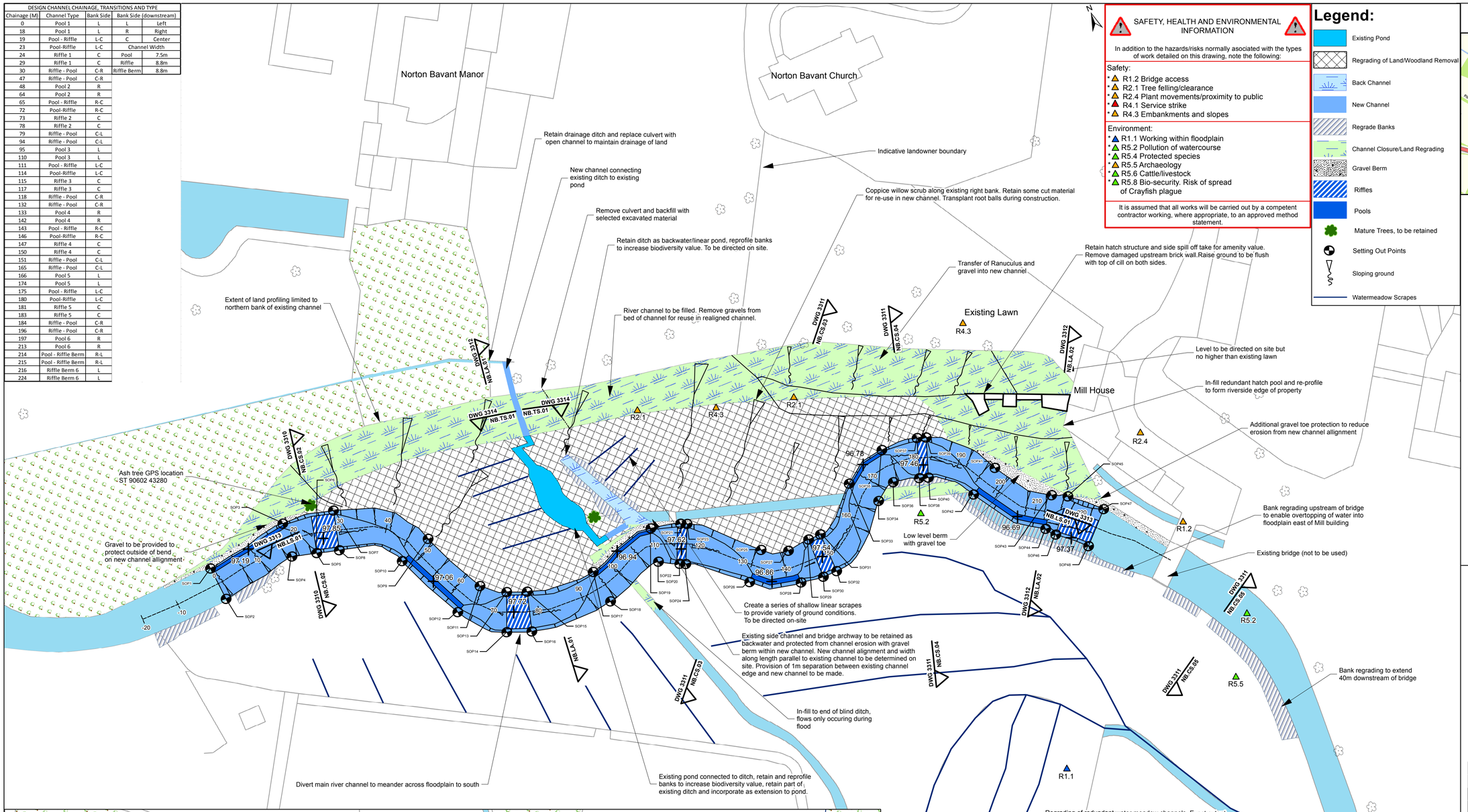
DESIGN CHANNEL CHAINAGE, TRANSITIONS AND TYPE				
Chainage (M)	Channel Type	Bank Side	Bank Side (downstream)	
0	Pool 1	L	L	Left
18	Pool 1	L	R	Right
19	Pool - Riffle	L-C	C	Center
23	Pool-Riffle	L-C	Channel Width	
24	Riffle 1	C	Pool	7.5m
29	Riffle 1	C	Riffle	8.8m
30	Riffle - Pool	C-R	Riffle Berm	8.8m
47	Riffle - Pool	C-R		
48	Pool 2	R		
64	Pool 2	R		
65	Pool - Riffle	R-C		
72	Pool-Riffle	R-C		
73	Riffle 2	C		
78	Riffle 2	C		
79	Riffle - Pool	C-L		
94	Riffle - Pool	C-L		
95	Pool 3	L		
110	Pool 3	L		
111	Pool - Riffle	L-C		
114	Pool-Riffle	L-C		
115	Riffle 3	C		
117	Riffle 3	C		
118	Riffle - Pool	C-R		
132	Riffle - Pool	C-R		
133	Pool 4	R		
142	Pool 4	R		
143	Pool - Riffle	R-C		
146	Pool-Riffle	R-C		
147	Riffle 4	C		
150	Riffle 4	C		
151	Riffle - Pool	C-L		
165	Riffle - Pool	C-L		
166	Pool 5	L		
174	Pool 5	L		
175	Pool - Riffle	L-C		
180	Pool-Riffle	L-C		
181	Riffle 5	C		
183	Riffle 5	C		
184	Riffle - Pool	C-R		
196	Riffle - Pool	C-R		
197	Pool 6	R		
213	Pool 6	R		
214	Pool - Riffle Berm	R-L		
215	Pool - Riffle Berm	R-L		
216	Riffle Berm 6	L		
224	Riffle Berm 6	L		



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:

Safety:
- R1.2 Bridge access
- R2.1 Tree felling/clearance
- R2.4 Plant movements/proximity to public
- R4.1 Service strike
- R4.3 Embankments and slopes

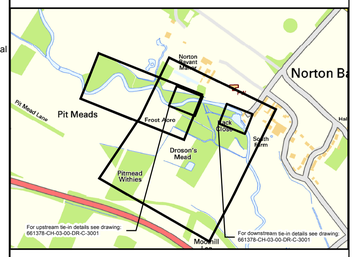
Environment:
- R1.1 Working within floodplain
- R5.2 Pollution of watercourse
- R5.4 Protected species
- R5.5 Archaeology
- R5.6 Cattle/livestock
- R5.8 Bio-security. Risk of spread of Crayfish plague

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

Legend:

- Existing Pond
- Regrading of Land/Woodland Removal
- Back Channel
- New Channel
- Regrade Banks
- Channel Closure/Land Regrading
- Gravel Berm
- Riffles
- Pools
- Mature Trees, to be retained
- Setting Out Points
- Sloping ground
- Watermeadow Scrapes

Key Plan:

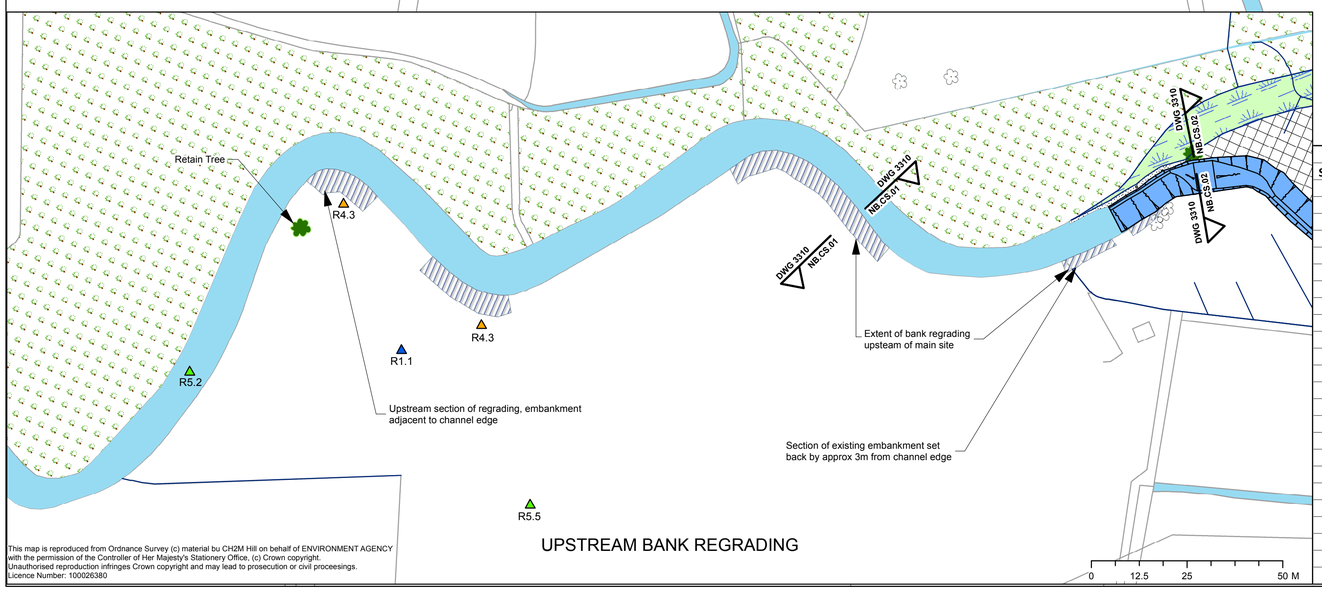


Notes:

1. For up and downstream channel tie in see drawing: 661378-CH-03-00-DR-C-3301
2. For cross sections & typical river restoration details see drawings:

   661378-CH-03-00-DR-C-3310,
   661378-CH-03-00-DR-C-3311,
   661378-CH-03-00-DR-C-3312,
   661378-CH-03-00-DR-C-3313,
   661378-CH-03-00-DR-C-3314.
3. Bank regrading, channel closure and channel creation; exact extent dimensions and constitution to be directed during construction by suitably experienced member of project team.
4. Dimensions of banks regrading and channel closure to be determined by availability of material from channel creation (cut-fill balance).
5. Water vole survey to be undertaken prior to setting out (location and extent). Bank closure works to be determined according to results and mitigation plan. Channel closure and regrading is shown to the maximum level and may need to be reduced. Refer to watervole mitigation plan.
6. For constraints & HSE information please refer to drawing:

   661378-CH-03-00-DR-C-3330
7. Setting out points positioned on opposite bank edges parallel to transition locations upon design channel.



SETTING OUT POINTS					
SOP NO.	X	Y	SOP NO.	X	Y
1	390560.53	143258.22	25	390674.34	143217.32
2	390561.25	143250.75	26	390669.40	143211.68
3	390578.91	143261.51	27	390679.86	143214.93
4	390578.11	143254.05	28	390679.86	143207.43
5	390583.47	143252.74	29	390684.86	143215.58
6	390583.47	143252.74	30	390684.86	143206.78
7	390590.30	143260.06	31	390687.69	143215.66
8	390588.29	143251.49	32	390688.04	143206.87
9	390607.31	143246.60	33	390697.70	143223.68
10	390600.22	143244.16	34	390702.29	143217.75
11	390614.05	143232.76	35	390707.08	143227.89
12	390607.43	143229.24	36	390706.82	143220.39
13	390619.02	143229.35	37	390715.23	143227.48
14	390615.79	143221.16	38	390712.44	143219.13
15	390623.23	143227.78	39	390717.12	143226.85
16	390620.96	143219.28	40	390714.34	143218.50
17	390638.32	143226.45	41	390728.71	143215.08
18	390639.46	143219.04	42	390722.18	143211.38
19	390653.60	143230.66	43	390738.03	143204.90
20	390652.45	143223.25	44	390734.10	143198.51
21	390660.03	143229.20	45	390741.26	143203.35
22	390656.63	143221.09	46	390735.70	143196.52
23	390661.35	143228.63	47	390747.54	143197.83
24	390657.84	143220.56	48	390741.43	143191.49

Rev	By	Chkd	Apprvd	Date	Description
C2	RS	JM	TW	13/05/16	CDM UPDATES
C1	RS	JM	TW	29/04/16	FOR CONSTRUCTION
T1	RS	JM	TW	11/04/16	FOR STAKEHOLDER AGREEMENT
P3	RS	JM	TW	08/02/16	CONSULTATION UPDATES
P2	RS	JM	TW	27/01/16	CONSULTATION UPDATES

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Five Rivers ENVIRONMENTAL CONTRACTING

ch2m

Project

RIVER AVON RESTORATION PROJECT

Drawing

NORTON BAVANT (W22) CHANNEL MODIFICATION GENERAL ARRANGEMENT

Drawn by: RS	Date: 13/05/2016	
Checked by: JM	Date: 13/05/2016	
Approved by: TW	Date: 13/05/2016	
Drawing No. 661378-CH-03-00-DR-C-3300	Revision C2	
Drawing Scale (at A1): Not to scale		

Drawing file path & name: \\EXTFP01\Proj\Water\Projects\661378 River_Avon_Restoration_Design\100_Maps_&_Data\GIS\BV Designs\Workspaces\Detailed Designs\NB Detailed Design_v3.mxd