

Oath to Burrowbridge Dredging and Associated Activities

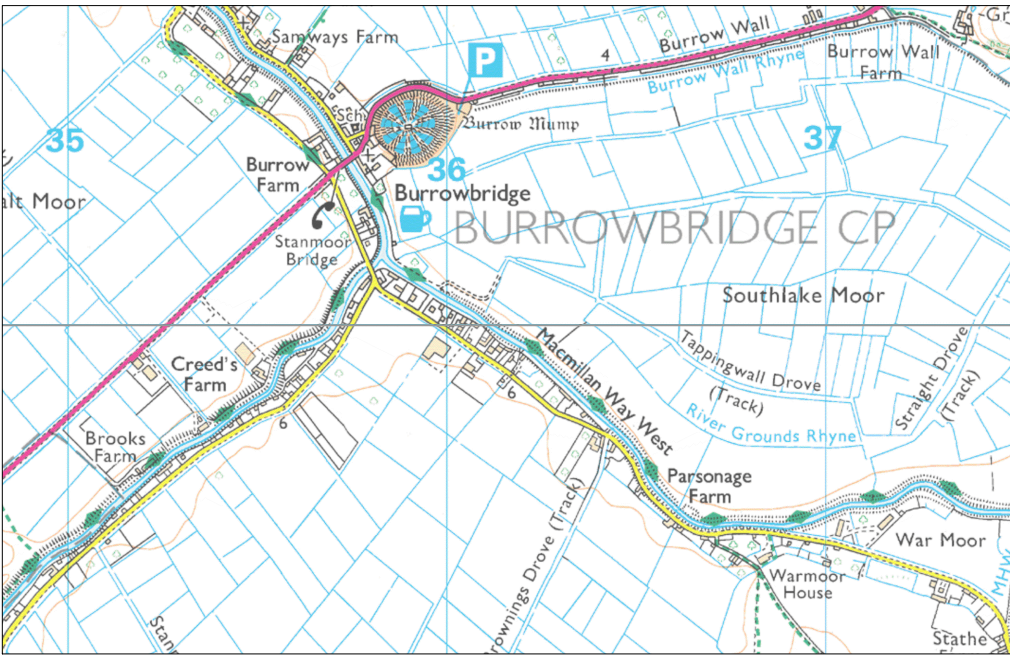
Volume 3: Appendices Part 2



HM Government



Environment
Agency



R1

Datum 2,000

Design level	
Chainage/Offset	
Elevation	

Chainage 0.000

R2

Datum 2,000

Design level	
Chainage/Offset	
Elevation	

Chainage 43.421

R3

Datum 2,000

Design level	
Chainage/Offset	
Elevation	

Chainage 93.429

R4

Datum 2,000

Design level	
Chainage/Offset	
Elevation	

Chainage 143.419

R5

Datum 2,000

Design level	
Chainage/Offset	
Elevation	

Chainage 193.425



Parrett Internal Drainage Board
Bradbury House
33-34 Market Street
Highbridge
Somerset TA9 3BW
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email admin@somersetids.co.uk

safety health & environmental:

Safety:

- Working with varying fluvial and tidal flows
 - Load bearing capacity of river banks
 - Access to parts of left bank may be difficult
- Health:
- Potential residual contamination from agricultural activity
 - Uneven ground that may be slippery when wet/frozen
- Environment:
- Part of the site is SSSI designated
 - Rare and protected species may be present

key:



Flow at spillway level



Cut



Design bank cut gradient



Fill



Design bank fill gradient

Reedy fringe

Levels relate to Ordnance Survey
GNSS Transformation OSTN15

project:

Pioneer dredging of River Parrett
Oath to Burrowbridge

title:

Design Profiles
Sections R1-R5

drawn:

RK

date:

June 2019

approved:

IDS

issue:

Tender

scale:

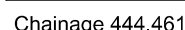
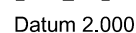
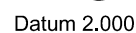
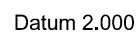
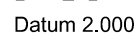
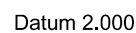
1:400 natural @ A3

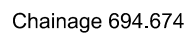
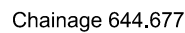
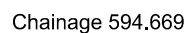
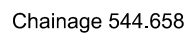
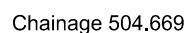
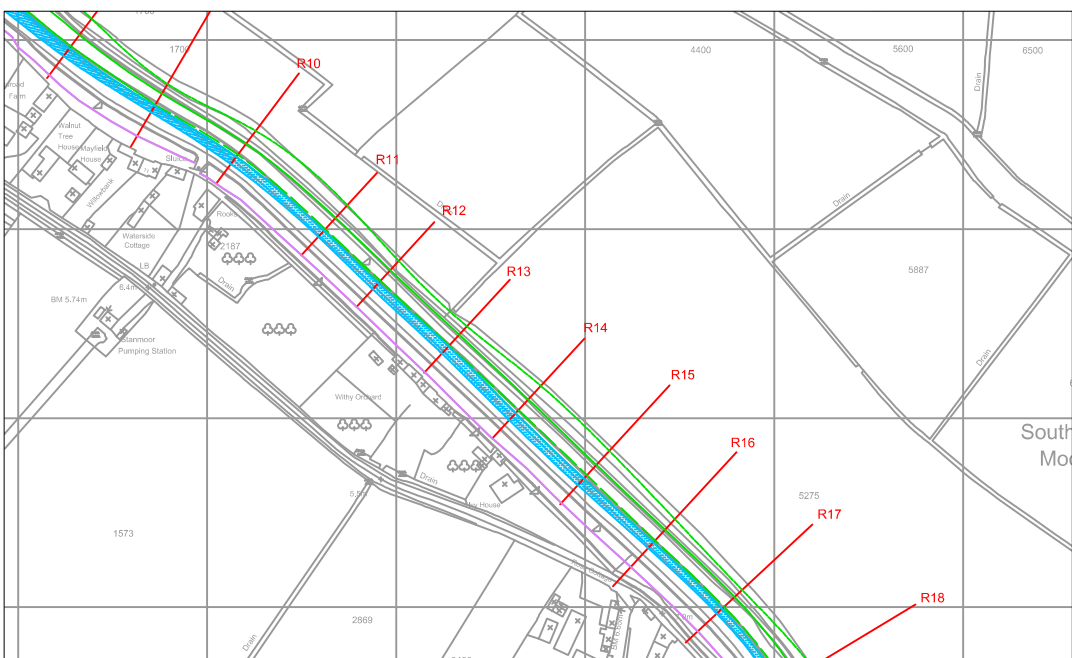
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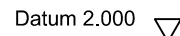
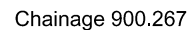
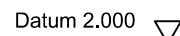
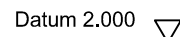
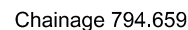
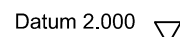
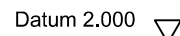
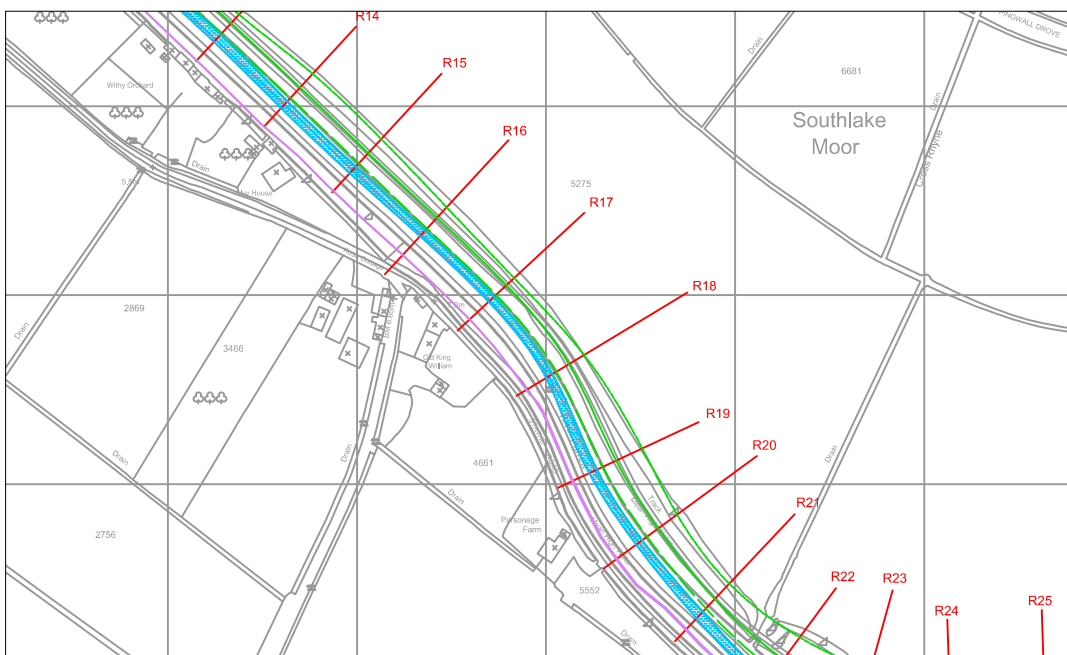
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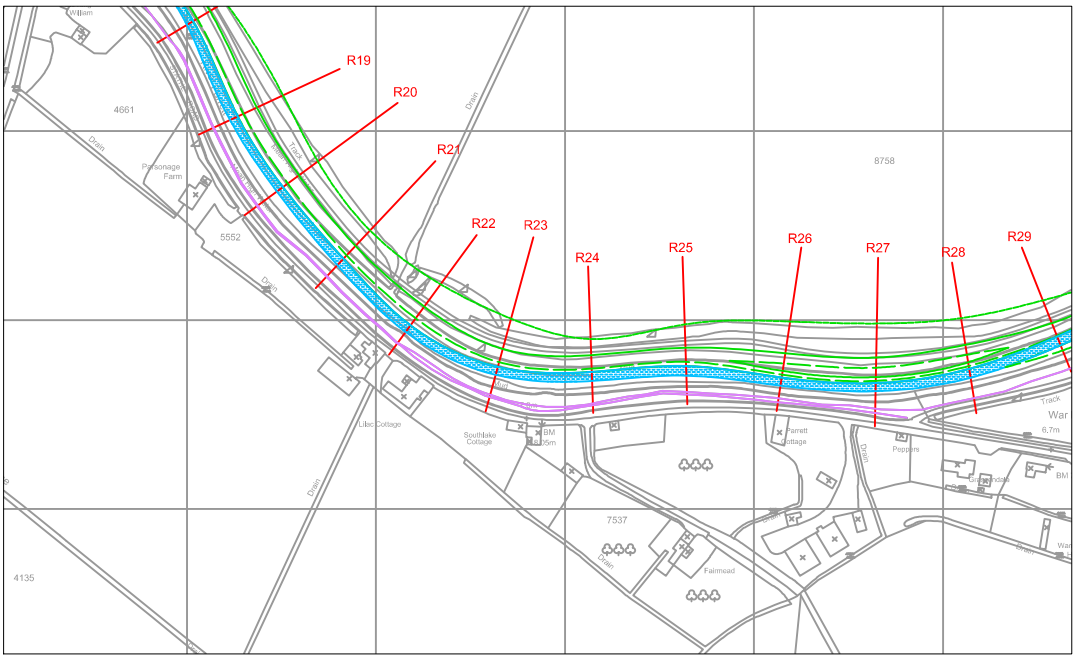
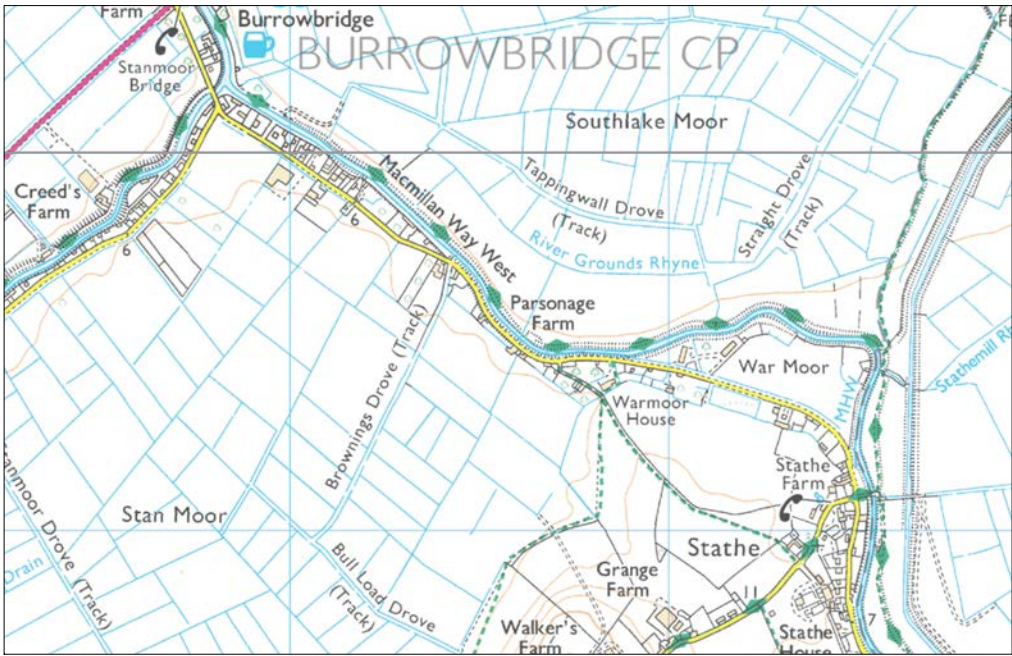
revisions:

Rev A: 19/19 Left bank design mods
Rev B: 03/19 Left bank reduction & fill adjusted





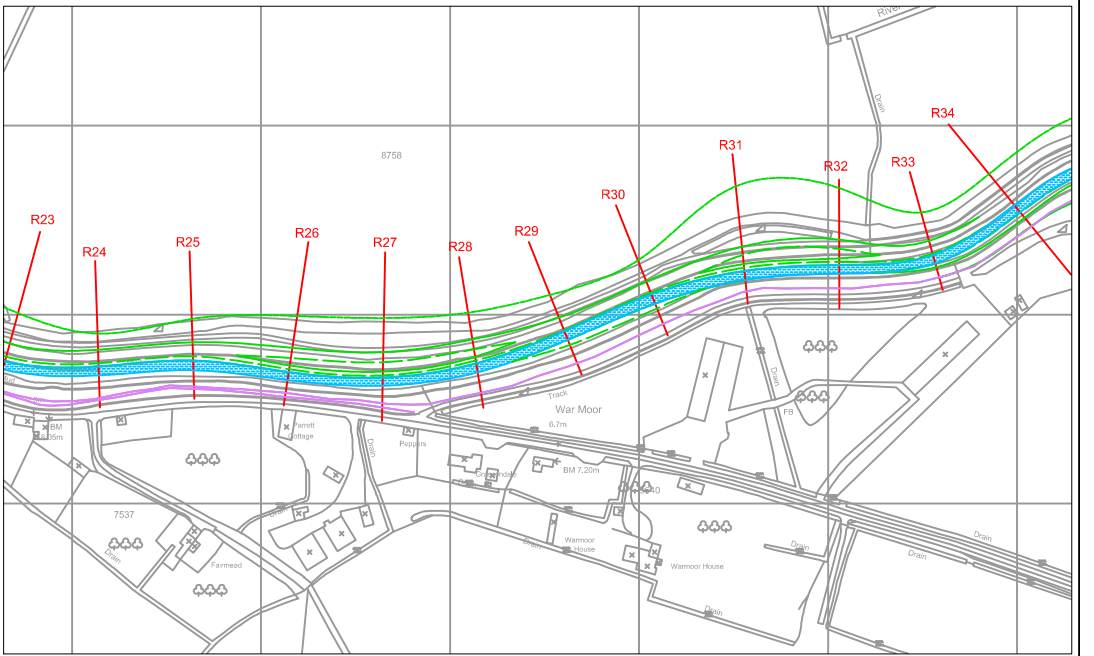
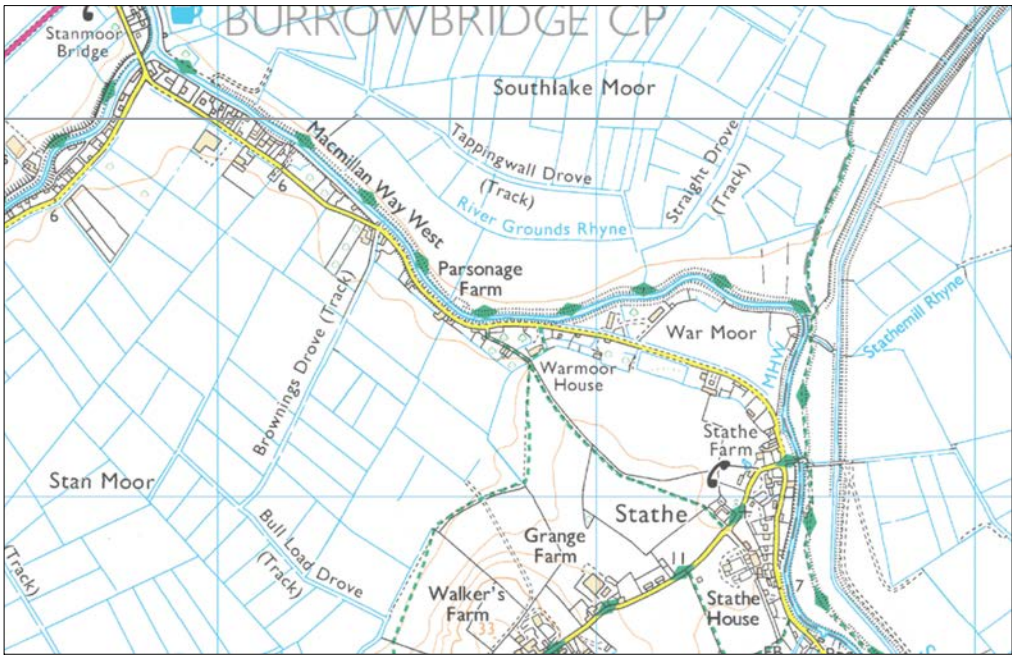




R21

Datum 2.000

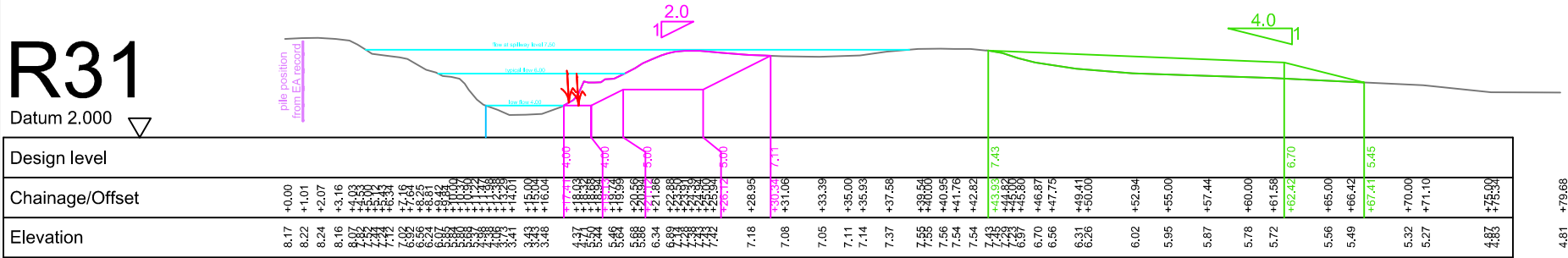
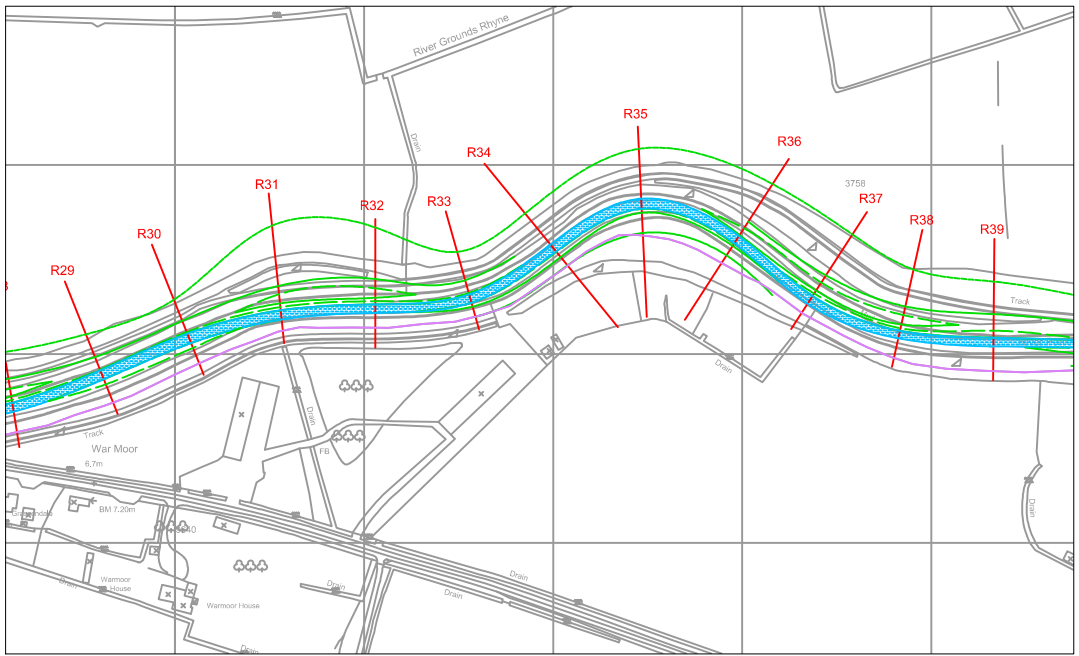
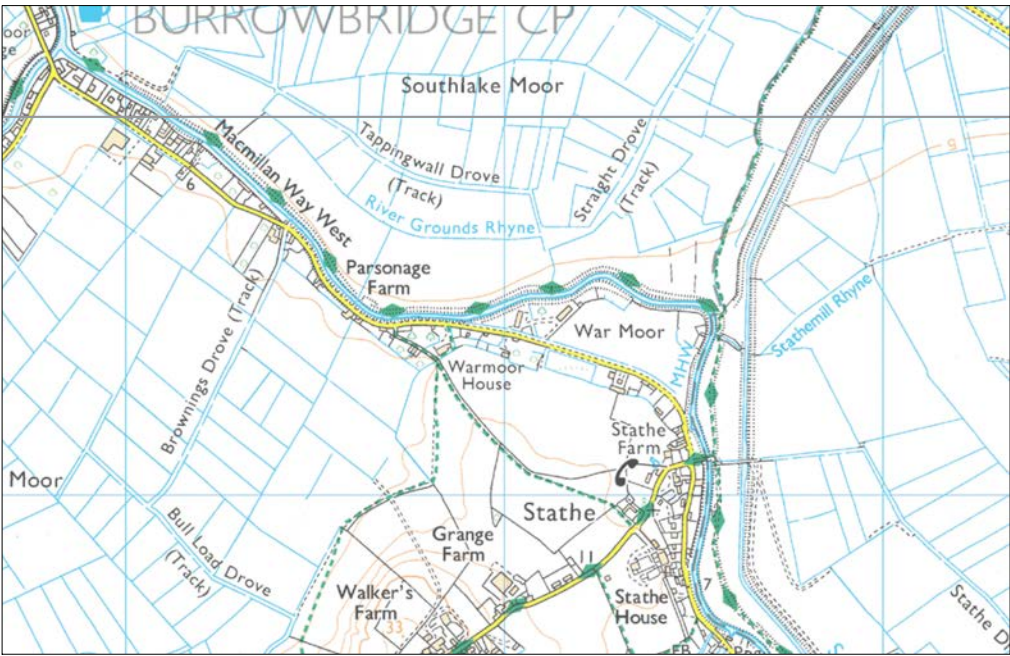
Design level	
Chainage/Offset	+0.00 +1.84 +3.68 +5.52 +7.36 +9.20 +11.04 +12.88 +14.72 +16.56 +18.40 +20.24 +22.08 +23.92 +25.76 +27.60 +29.44 +31.28 +33.12 +34.96 +36.80 +38.64 +40.48 +42.32 +44.16 +46.00 +47.84 +49.68 +51.52 +53.36 +55.20 +57.04 +58.88 +60.72 +62.56 +64.40 +66.24 +68.08 +69.92 +71.76 +73.60 +75.44 +77.28 +79.12 +80.96 +82.80 +84.64 +86.48 +88.32 +90.16 +92.00 +93.84 +95.68 +97.52 +99.36 +101.20 +103.04 +104.88 +106.72 +108.56 +110.40 +112.24 +114.08 +115.92 +117.76 +119.60 +121.44 +123.28 +125.12 +126.96 +128.80 +130.64 +132.48 +134.32 +136.16 +138.00 +139.84 +141.68 +143.52 +145.36 +147.20 +149.04 +150.88 +152.72 +154.56 +156.40 +158.24 +160.08 +161.92 +163.76 +165.60 +167.44 +169.28 +171.12 +172.96 +174.80 +176.64 +178.48 +180.32 +182.16 +184.00 +185.84 +187.68 +189.52 +191.36 +193.20 +195.04 +196.88 +198.72 +200.56 +202.40 +204.24 +206.08 +207.92 +209.76 +211.60 +213.44 +215.28 +217.12 +218.96 +220.80 +222.64 +224.48 +226.32 +228.16 +230.00 +231.84 +233.68 +235.52 +237.36 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+1957.76 +1959.60 +1961.44 +1963.28 +1965.12 +1966.96 +1968.80 +1970.64 +1972.48 +1974.32 +1976.16 +1978.00 +1979.84 +1981.68 +1983.52 +1985.36 +1987.20 +1989.04 +1990.88 +1992.72 +1994.56 +1996.40 +1998.24 +2000.08 +2001.92 +2003.76 +2005.60 +2007.44 +2009.28 +2011.12 +2012.96 +2014.80 +2016.64 +2018.48 +2020.32 +2022.16 +2024.00 +2025.84 +2027.68 +2029.52 +2031.36 +2033.20 +2035.04 +2036.88 +2038.72 +2040.56 +2042.40 +2044.24 +2046.08 +2047.92 +2049.76 +2051.60 +2053.44 +2055.28 +2057.12 +2058.96 +2060.80 +2062.64 +2064.48 +2066.32 +2068.16 +2070.00 +2071.84 +2073.68 +2075.52 +2077.36 +2079.20 +2081.04 +2082.88 +2084.72 +2086.56 +2088.40 +2090.24 +2092.08 +2093.92 +2095.76 +2097.60 +2099.44 +2101.28 +2103.12 +2104.96 +2106.80 +2108.64 +2110.48 +2112.32 +2114.16 +2116.00 +2117.84 +2119.68 +2121.52 +2123.36 +2125.20 +2127.04 +2128.88 +2130.72 +2132.56 +2134.40 +2136.24 +2138.08 +2139.92 +2141.76 +2143.60 +2145.44 +2147.28 +2149.12 +2150.96 +2152.80 +2154.64 +2156.48 +2158.32 +2160.16 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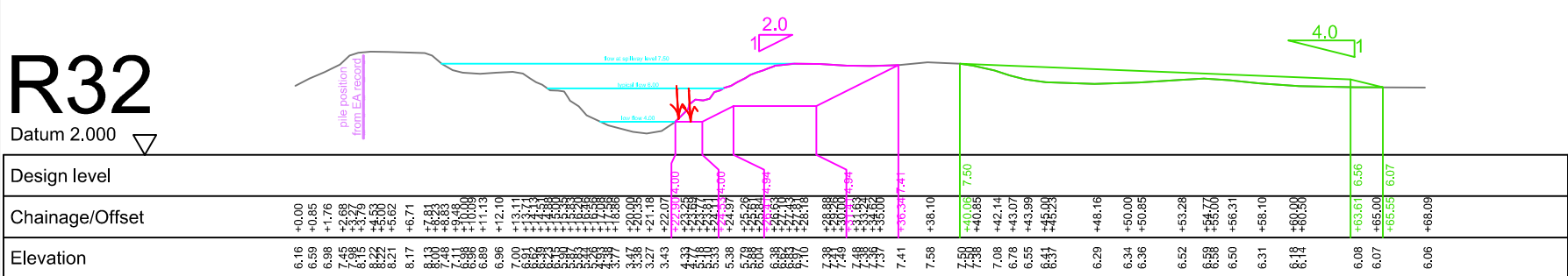
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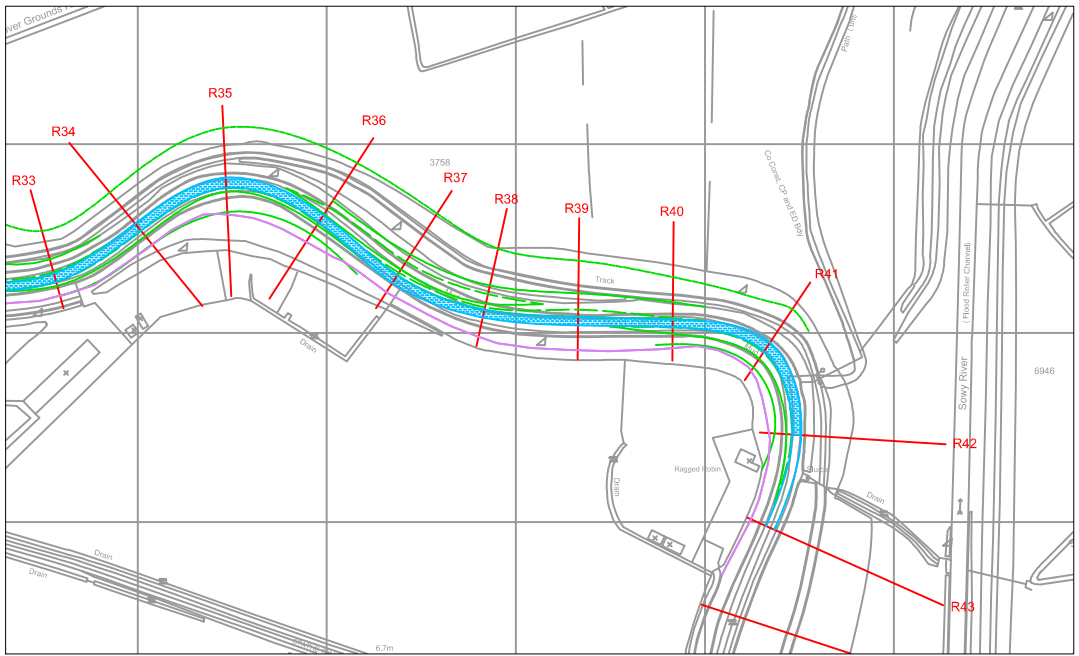
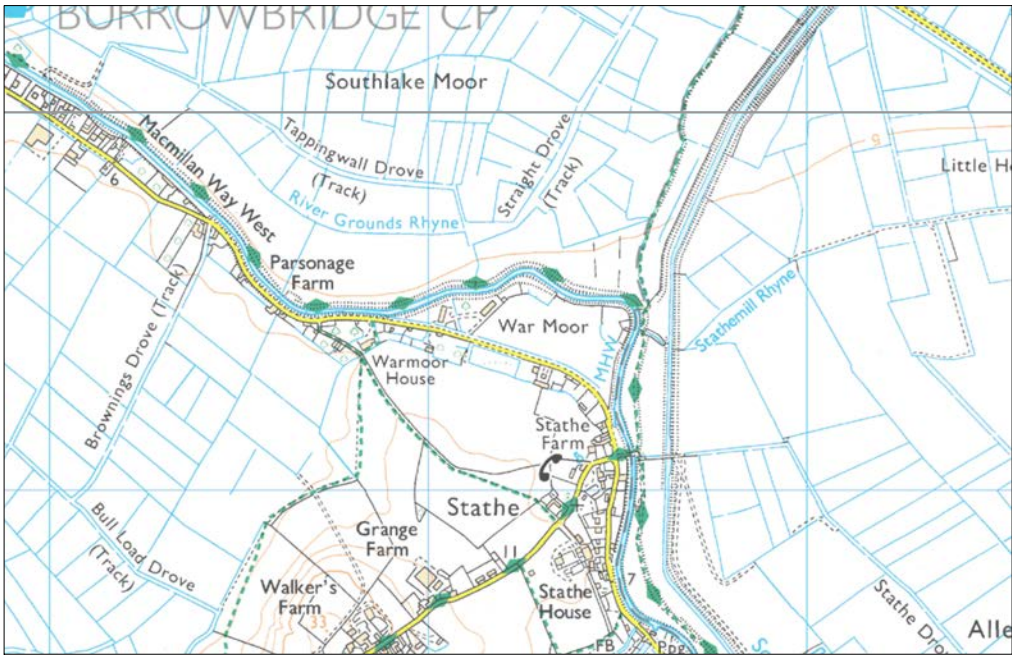
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Design level	
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+110.70 +111.49 +112.28 +113.07 +113.86 +114.65 +115.44 +116.23 +117.02 +117.81 +118.60 +119.39 +120.18 +120.97 +121.76 +122.55 +123.34 +124.13 +124.92 +125.71 +126.50 +127.29 +128.08 +128.87 +129.66 +130.45 +131.24 +132.03 +132.82 +133.61 +134.40 +135.19 +135.98 +136.77 +137.56 +138.35 +139.14 +139.93 +140.72 +141.51 +142.30 +143.09 +143.88 +144.67 +145.46 +146.25 +147.04 +147.83 +148.62 +149.41 +150.20 +150.99 +151.78 +152.57 +153.36 +154.15 +154.94 +155.73 +156.52 +157.31 +158.10 +158.89 +159.68 +160.47 +161.26 +162.05 +162.84 +163.63 +164.42 +165.21 +166.00 +166.79 +167.58 +168.37 +169.16 +169.95 +170.74 +171.53 +172.32 +173.11 +173.90 +174.69 +175.48 +176.27 +177.06 +177.85 +178.64 +179.43 +180.22 +181.01 +181.80 +182.59 +183.38 +184.17 +184.96 +185.75 +186.54 +187.33 +188.12 +188.91 +189.70 +190.49 +191.28 +192.07 +192.86 +193.65 +194.44 +195.23 +196.02 +196.81 +197.60 +198.39 +199.18 +199.97 +200.76 +201.55 +202.34 +203.13 +203.92 +204.71 +205.50 +206.29 +207.08 +207.87 +208.66 +209.45 +210.24 +211.03 +211.82 +212.61 +213.40 +214.19 +214.98 +215.77 +216.56 +217.35 +218.14 +218.93 +219.72 +220.51 +221.30 +222.09 +222.88 +223.67 +224.46 +225.25 +226.04 +226.83 +227.62 +228.41 +229.20 +230.00 +230.79 +231.58 +232.37 +233.16 +233.95 +234.74 +235.53 +236.32 +237.11 +237.90 +238.69 +239.48 +240.27 +241.06 +241.85 +242.64 +243.43 +244.22 +245.01 +245.80 +246.59 +247.38 +248.17 +248.96 +249.75 +250.54 +251.33 +252.12 +252.91 +253.70 +254.49 +255.28 +256.07 +256.86 +257.65 +258.44 +259.23 +260.02 +260.81 +261.60 +262.39 +263.18 +263.97 +264.76 +265.55 +266.34 +267.13 +267.92 +268.71 +269.50 +270.29 +271.08 +271.87 +272.66 +273.45 +274.24 +275.03 +275.82 +276.61 +277.40 +278.19 +278.98 +279.77 +280.56 +281.35 +282.14 +282.93 +283.72 +284.51 +285.30 +286.09 +286.88 +287.67 +288.46 +289.25 +290.04 +290.83 +291.62 +292.41 +293.20 +293.99 +294.78 +295.57 +296.36 +297.15 +297.94 +298.73 +299.52 +300.31 +301.10 +301.89 +302.68 +303.47 +304.26 +305.05 +305.84 +306.63 +307.42 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+703.22 +704.01 +704.80 +705.59 +706.38 +707.17 +707.96 +708.75 +709.54 +710.33 +711.12 +711.91 +712.70 +713.49 +714.28 +715.07 +715.86 +716.65 +717.44 +718.23 +719.02 +719.81 +720.60 +721.39 +722.18 +722.97 +723.76 +724.55 +725.34 +726.13 +726.92 +727.71 +728.50 +729.29 +730.08 +730.87 +731.66 +732.45 +733.24 +734.03 +734.82 +735.61 +736.40 +737.19 +737.98 +738.77 +739.56 +740.35 +741.14 +741.93 +742.72 +743.51 +744.30 +745.09 +745.88 +746.67 +747.46 +748.25 +749.04 +749.83 +750.62 +751.41 +752.20 +752.99 +753.78 +754.57 +755.36 +756.15 +756.94 +757.73 +758.52 +759.31 +760.10 +760.89 +761.68 +762.47 +763.26 +764.05 +764.84 +765.63 +766.42 +767.21 +768.00 +768.79 +769.58 +770.37 +771.16 +771.95 +772.74 +773.53 +774.32 +775.11 +775.90 +776.69 +777.48 +778.27 +779.06 +779.85 +780.64 +781.43 +782.22 +783.01 +783.80 +784.59 +785.38 +786.17 +786.96 +787.75 +788.54 +789.33 +790.12 +790.91 +791.70 +792.49 +793.28 +794.07 +794.86 +795.65 +796.44 +797.23 +798.02 +798.81 +799.60 +800.39 +801.18 +801.97 +802.76 +803.55 +804.34 +805.13 +805.92 +806.71 +807.50 +808.29 +809.08 +809.87 +810.66 +811.45 +812.24 +813.03 +813.82 +814.61 +815.40 +816.19 +816.98 +817.77 +818.56 +819.35 +820.14 +820.93 +821.72 +822.51 +823.30 +824.09 +824.88 +825.67 +826.46 +827.25 +828.04 +828.83 +829.62 +830.41 +831.20 +831.99 +832.78 +833.57 +834.36 +835.15 +835.94 +836.73 +837.52 +838.31 +839.10 +839.89 +840.68 +841.47 +842.26 +843.05 +843.84 +844.63 +845.42 +846.21 +847.00 +847.79 +848.58 +849.37 +850.16 +850.95 +851.74 +852.53 +853.32 +854.11 +854.90 +855.69 +856.48 +857.27 +858.06 +858.85 +859.64 +860.43 +861.22 +862.01 +862.80 +863.59 +864.38 +865.17 +865.96 +866.75 +867.54 +868.33 +869.12 +869.91 +870.70 +871.49 +872.28 +873.07 +873.86 +874.65 +875.44 +876.23 +877.02 +877.81 +878.60 +879.39 +880.18 +880.97 +881.76 +882.55 +883.34 +884.13 +884.92 +885.71 +886.50 +887.29 +888.08 +888.87 +889.66 +890.45 +891.24 +892.03 +892.82 +893.61 +894.40 +895.19 +895.98 +896.77 +897.56 +898.35 +899.14 +899.93 +900.72 +901.51 +902.30 +903.09 +903.88 +904.67 +905.46 +906.25 +907.04 +907.83 +908.62 +909.41 +910.20 +910.99 +911.78 +912.57 +913.36 +914.15 +914.94 +915.73 +916.52 +917.31 +918.10 +918.89 +919.68 +920.47 +921.26 +922.05 +922.84 +923.63 +924.42 +925.21 +926.00 +926.79 +927.58 +928.37 +929.16 +929.95 +930.74 +931.53 +932.32 +933.11 +933.90 +934.69 +935.48 +936.27 +937.06 +937.85 +938.64 +939.43 +940.22 +941.01 +941.80 +942.59 +943.38 +944.17 +944.96 +945.75 +946.54 +947.33 +948.12 +948.91 +949.70 +950.49 +951.28 +952.07 +952.86 +953.65 +954.44 +955.23 +956.02 +956.81 +957.60 +958.39 +959.18 +959.97 +960.76 +961.55 +962.34 +963.13 +963.92 +964.71 +965.50 +966.29 +967.08 +967.87 +968.66 +969.45 +970.24 +971.03 +971.82 +972.61 +973.40 +974.19 +974.98 +975.77 +976.56 +977.35 +978.14 +978.93 +979.72 +980.51 +981.30 +982.09 +982.88 +983.67 +984.46 +985.25 +986.04 +986.83 +987.62 +988.41 +989.20 +990.00 +990.79 +991.58 +992.37 +993.16 +993.95 +994.74 +995.53 +996.32 +997.11 +997.90 +998.69 +999.48 +1000.27 +1001.06 +1001.85 +1002.64 +1003.43 +1004.22 +1005.01 +1005.80 +1006.59 +1007.38 +1008.17 +1008.96 +1009.75 +1010.54 +1011.33 +1012.12 +1012.91 +1013.70 +1014.49 +1015.28 +1016.07 +1016.86 +1017.65 +1018.44 +1019.23 +1020.02 +1020.81 +1021.60 +1022.39 +1023.18 +1023.97 +1024.76 +1025.55 +1026.34 +1027.13 +1027.92 +1028.71 +1029.50 +1030.29 +1031.08 +1031.87 +1032.66 +1033.45 +1034.24 +1035.03 +1035.82 +1036.61 +1037.40 +1038.19 +1038.98 +1039.77 +1040.56 +1041.35 +1042.14 +1042.93 +1043.72 +1044.51 +1045.30 +1046.09 +1046.88 +1047.67 +1048.46 +1049.25 +1050.04 +1050.83 +1051.62 +1052.41 +1053.20 +1053.99 +1054.78 +1055.57 +1056.36 +1057.15 +1057.94 +1058.73 +1059.52 +1060.31 +1061.10 +1061.



Chainage 1501.632





R36

Datum 2.000

Design level	
Chainage/Offset	+0.00
Elevation	6.04

Chainage 1761.411

R37

Datum 2.000

Design level	
Chainage/Offset	+0.00
Elevation	7.25

Chainage 1811.567

R38

Datum 2.000

Design level	
Chainage/Offset	+0.00
Elevation	8.39

Chainage 1862.308

R39

Datum 2.000

Design level	
Chainage/Offset	+0.00
Elevation	7.79

Chainage 1912.867

R40

Datum 2.000

Design level	
Chainage/Offset	+0.00
Elevation	8.23

Chainage 1962.918



Parrett Internal Drainage Board
Bradbury House
33-34 Market Street
Highbridge
Somerset TA9 3BW
Telephone 01278 789906
email admin@somersetids.co.uk

safety health & environmental:

Safety:

- Working with varying fluvial and tidal flows
- Load bearing capacity of river banks
- Access to parts of left bank may be difficult

Health:

- Potential residual contamination from agricultural activity
- Uneven ground that may be slippery when wet/frozen

Environment:

- Part of the site is SSSI designated
- Rare and protected species may be present

key:



Flow at spillway level

Cut

Design bank cut gradient

Fill

Design bank fill gradient

Reedy fringe

Levels relate to Ordnance Survey
GNSS Transformation OSTN15

project:

Pioneer dredging of River Parrett
Oath to Burrowbridge

title:

Design Profiles
Sections R36-R40

drawn:

RK

approved:

IDS

scale:

1:400 natural @ A3

drg no:

GD06-18-208B

revisions:

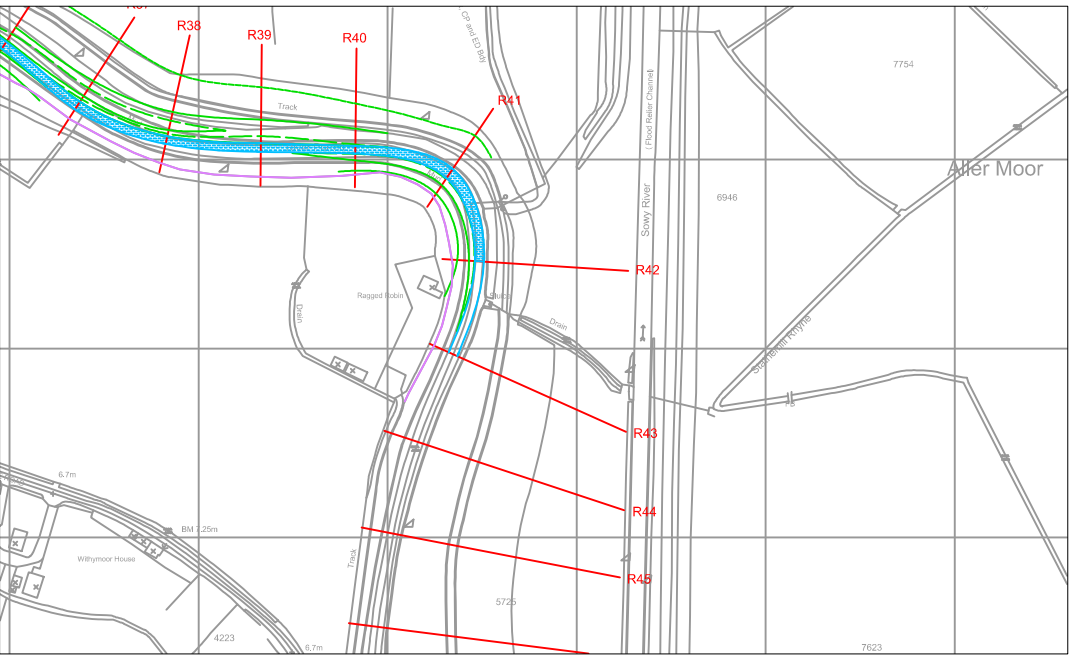
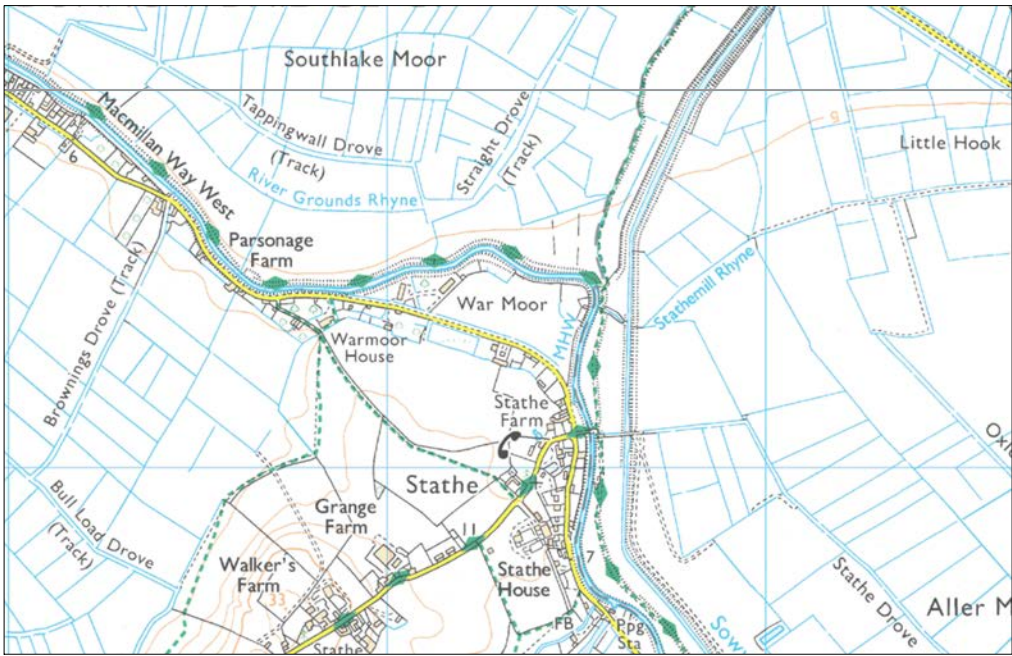
Rev A: 09/19 Left bank design mods
Rev B: 09/19 Left bank reduction & fill adjusted

date:

June 2019

issue:

Tender



R41

Datum 2.000 ▾

Design level	
Chainage/Offset	
Elevation	

Chainage 2015.349

R42

Datum 2.000 ▾

Design level	
Chainage/Offset	
Elevation	

Chainage 2065.795

R43

Datum 2.000 ▾

Design level	
Chainage/Offset	
Elevation	

Chainage 2116.795

R44

Datum 2.000 ▾

Design level	
Chainage/Offset	
Elevation	

Chainage 2166.859

R45

Datum 2.000 ▾

Design level	
Chainage/Offset	
Elevation	

Chainage 2216.966

Beazley's Spillway

Beazley's Spillway

Beazley's Spillway



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GNSS Transformation OSTN15

Flow at spillway level

Cut

Design bank cut gradient

Fill

Design bank fill gradient

Reedy fringe

project:

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title:

Design Profiles
Sections R41-R45

drawn:

RK

date:

June 2019

approved:

IDS

issue:

Tender

scale:

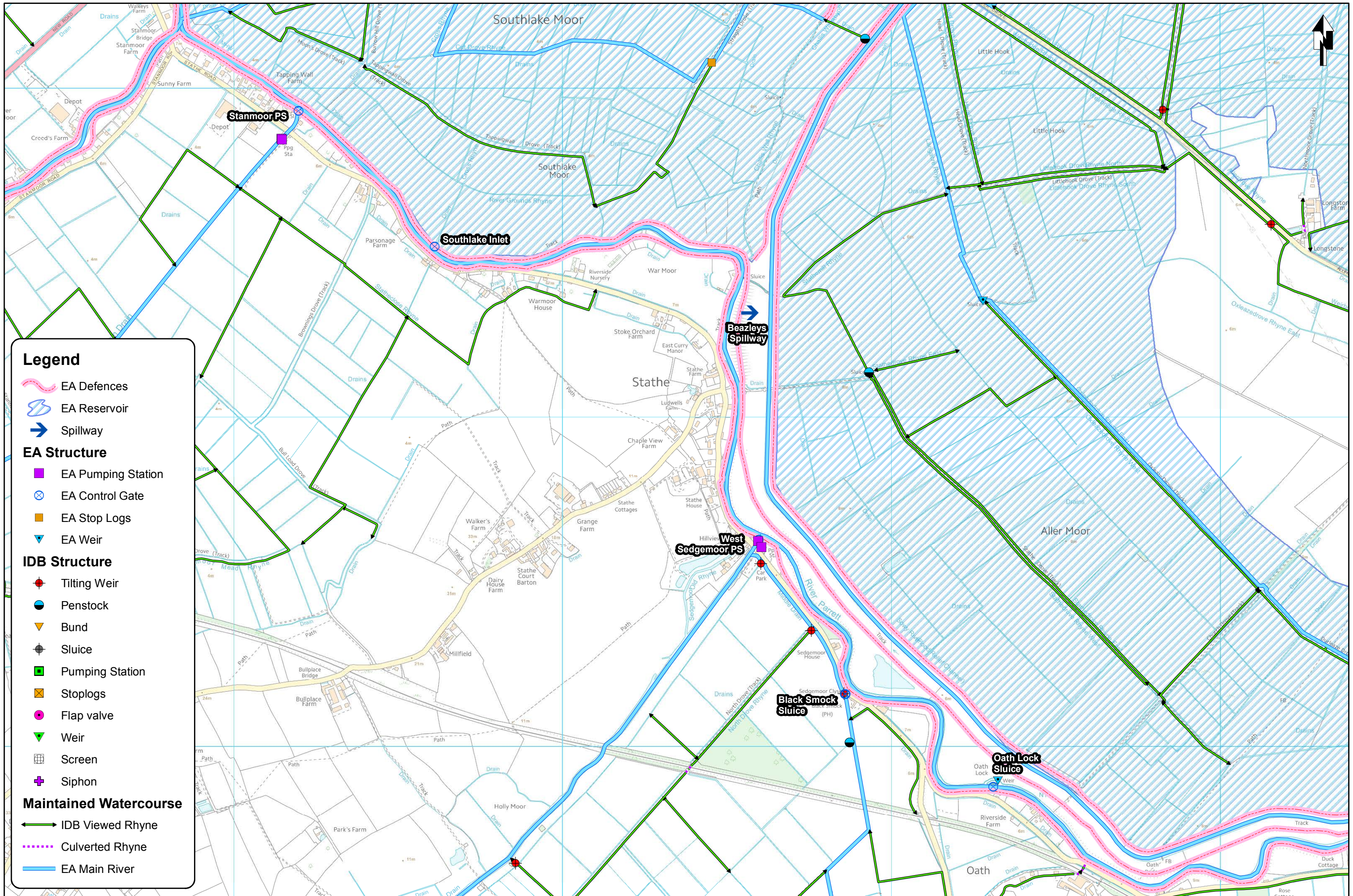
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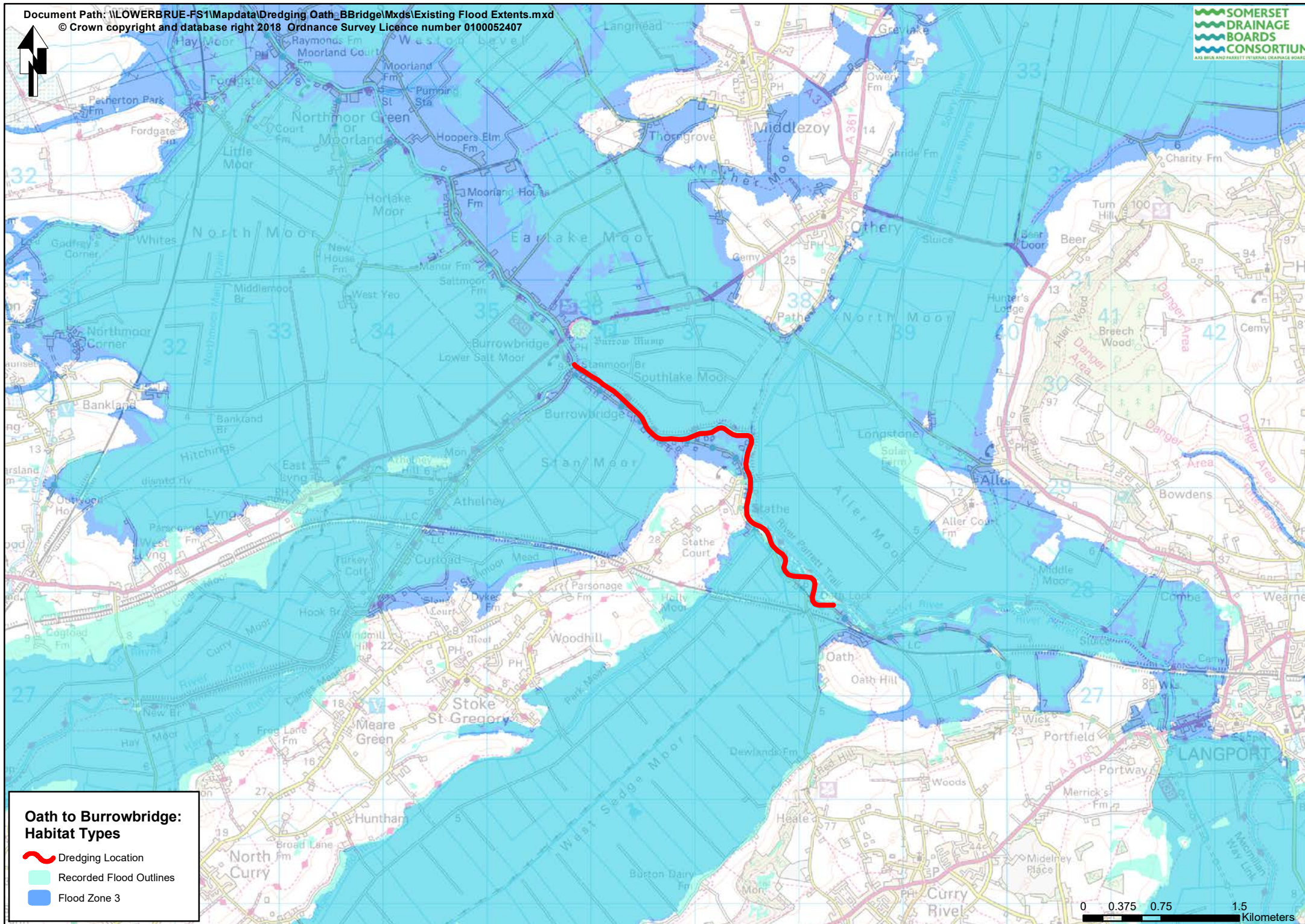
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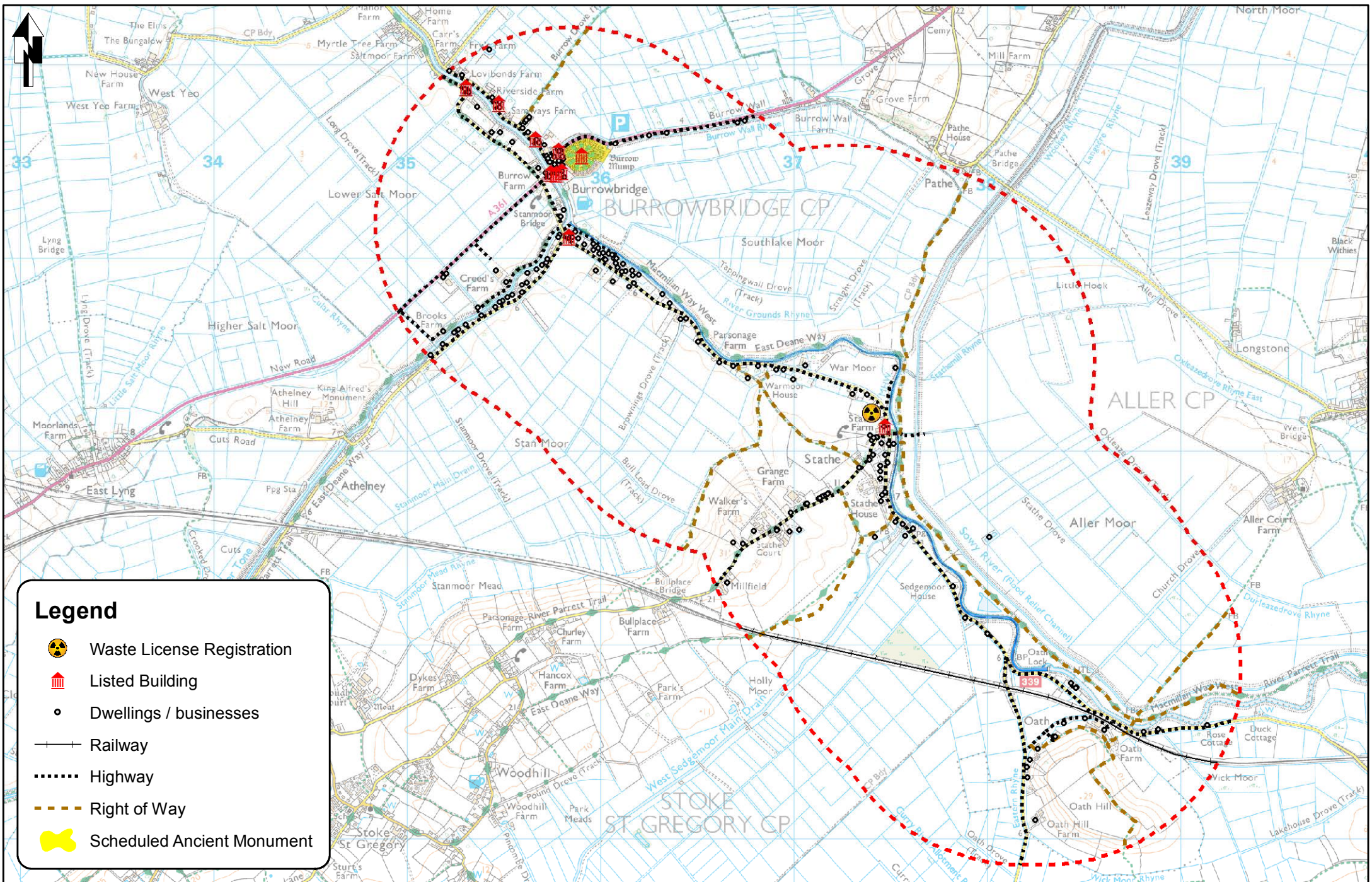
GD06-18-209B

revisions:

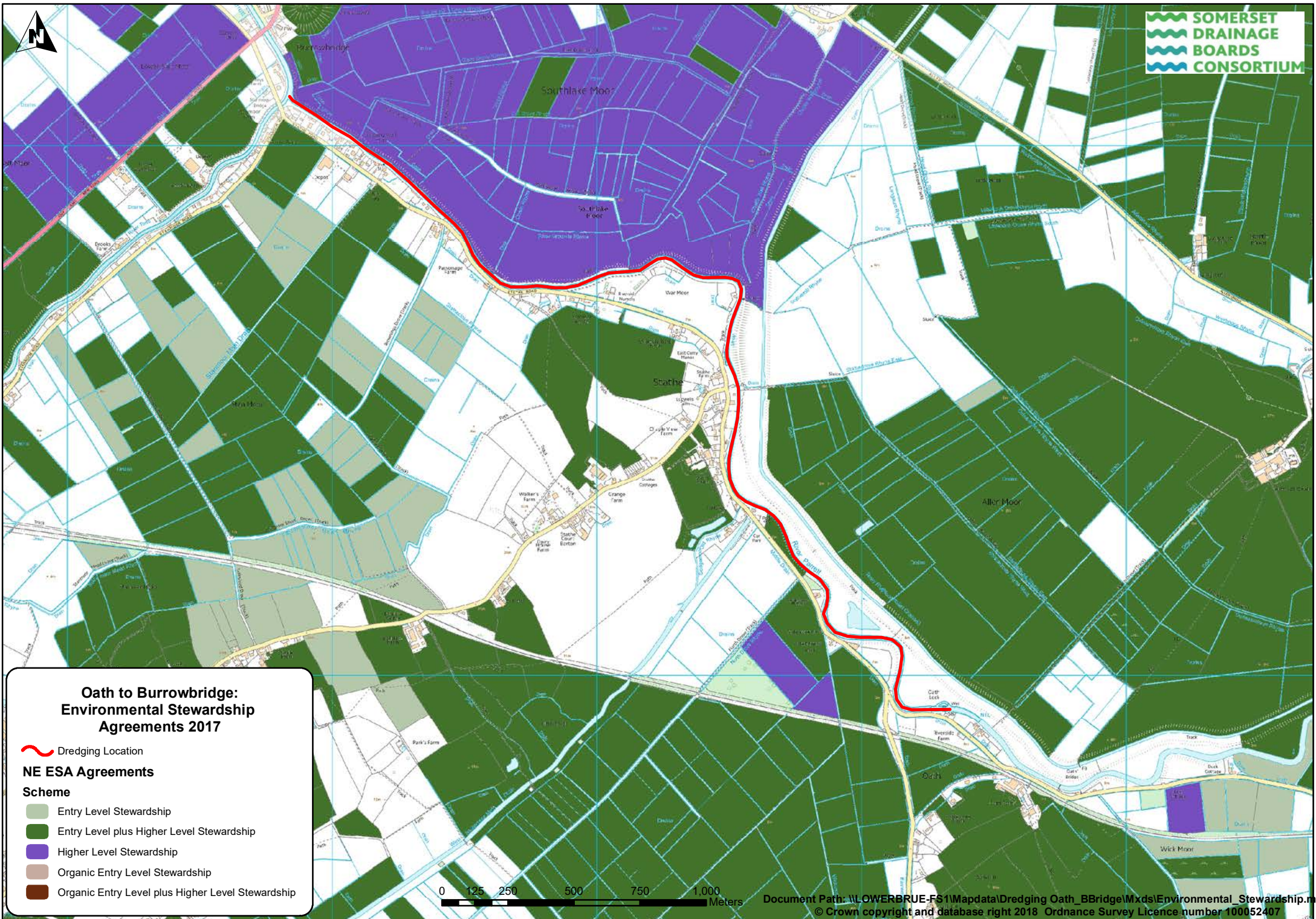
Rev A: 06/19 Left bank design mods
Rev B: 07/19 Left bank reduction & fill adjusted







Man-made Constraints






**Oath to Burrowbridge:
Environmental Stewardship
Agreements 2017**

 Dredging Location

NE ESA Agreements

Scheme

-  Entry Level Stewardship
-  Entry Level plus Higher Level Stewardship
-  Higher Level Stewardship
-  Organic Entry Level Stewardship
-  Organic Entry Level plus Higher Level Stewardship

0 125 250 500 750 1,000 Meters

