



The Sizewell C Project

5.5 Two Village Bypass Flood Risk Assessment Appendix A Two Village Bypass Modelling Report - Appendix C Part 1 of 2

Revision: 1.0
Applicable Regulation: Regulation 5(2)(e)
PINS Reference Number: EN010012

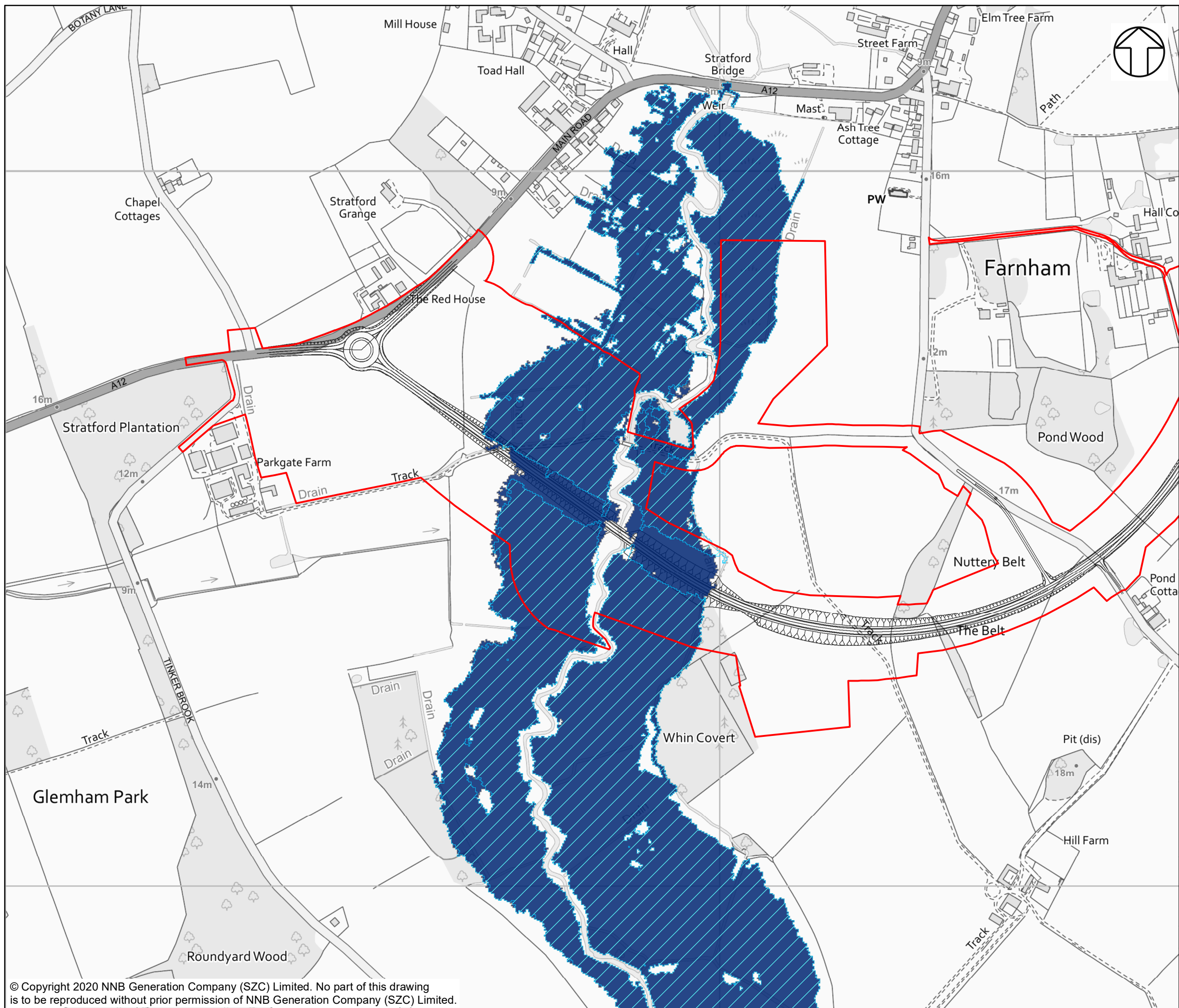
May 2020

Planning Act 2008
Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009



Appendix C: 2VB Fluvial model results – Difference in flood depth ('with scheme'-baseline)

RHDHV, November 2019



NOTES

KEY

- TWO VILLAGE BYPASS DEVELOPMENT SITE BOUNDARY
- TWO VILLAGE BYPASS ROAD LAYOUT
- WITH SCHEME 20YR +35% CC EVENT FLOOD EXTENT
- BASELINE 20YR +35% CC EVENT FLOOD EXTENT

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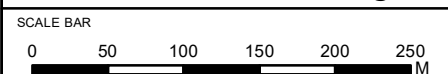


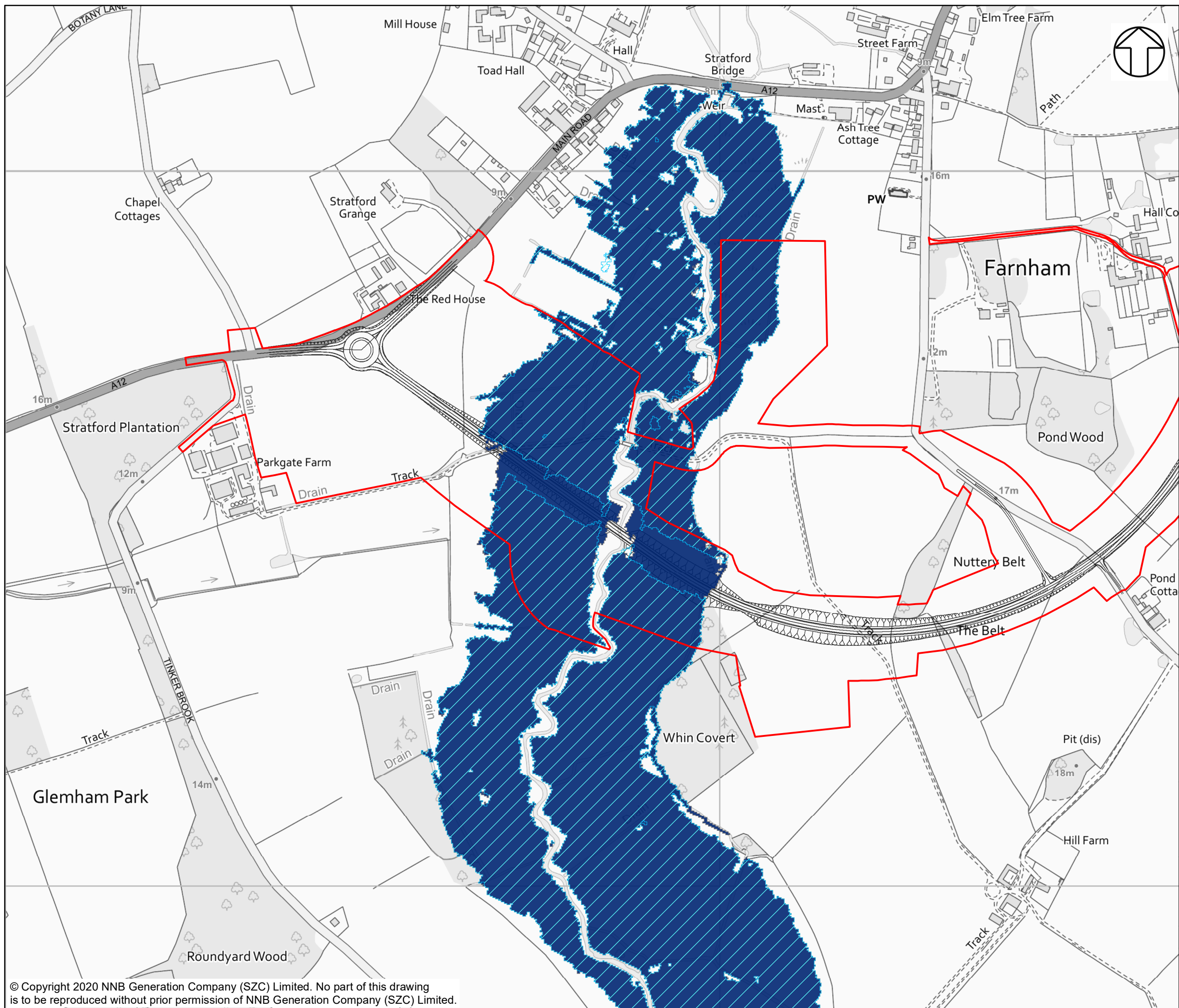
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 FLOOD RISK ASSESSMENT

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 DIFFERENCE IN FLOOD EXTENTS BASELINE
 20 YEAR + 35% CC VS WITH SCHEME
 20 YEAR + 35% CC

DRAWING NO:
 FIGURE C1

DATE: FEB 2020 **DRAWN:** E.H. **SCALE:** 1:5,000 @A3





NOTES

KEY

- TWO VILLAGE BYPASS DEVELOPMENT SITE BOUNDARY
- TWO VILLAGE BYPASS ROAD LAYOUT
- WITH SCHEME 20YR +65%CC EVENT FLOOD EXTENT
- BASELINE 20YR +65%CC EVENT FLOOD EXTENT

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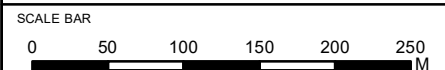


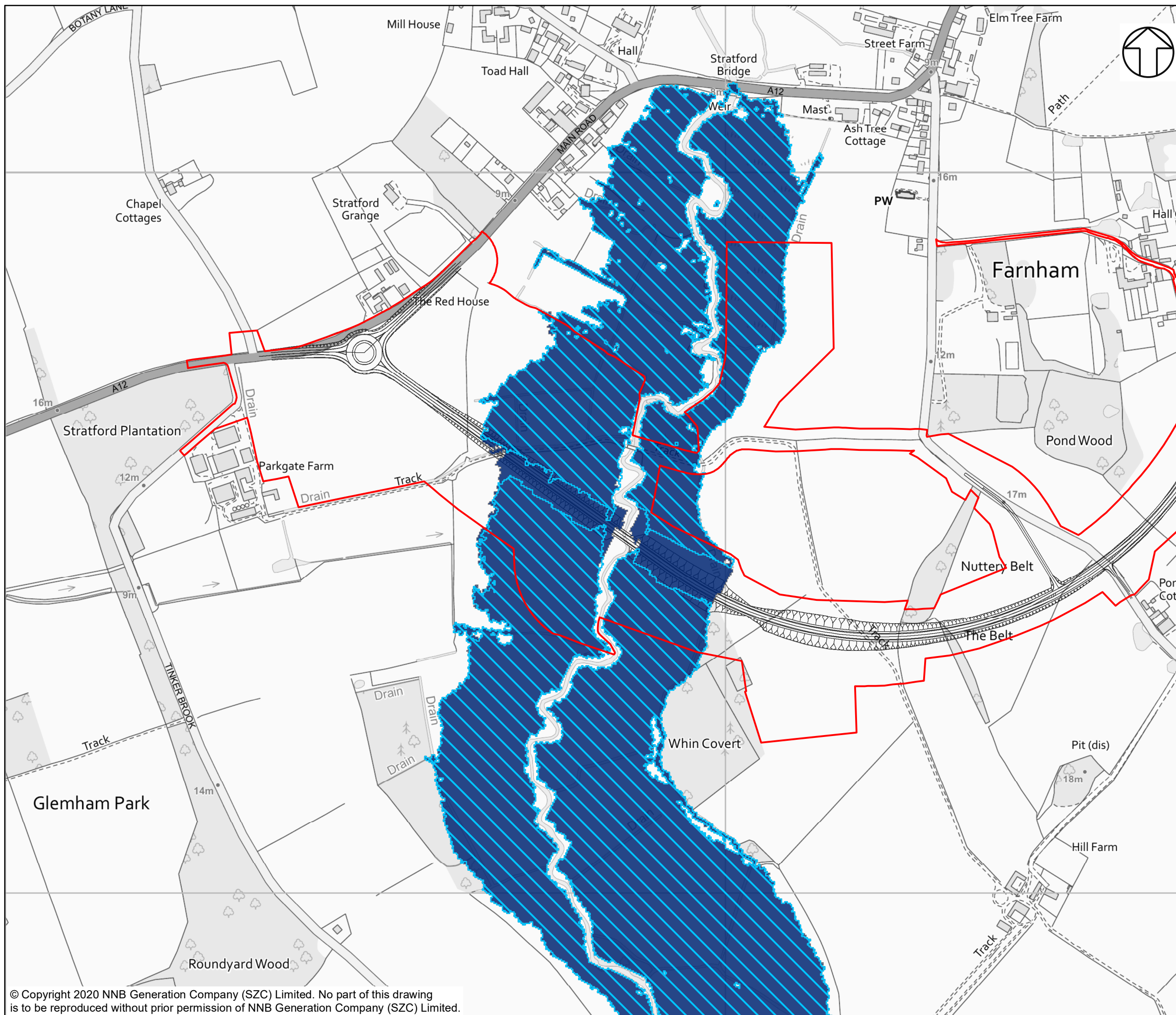
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 20 YEAR + 65% CC VS WITH SCHEME
 20 YEAR + 65% CC

DRAWING NO:
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DATE: FEB 2020 **DRAWN:** E.H. **SCALE:** 1:5,000 @A3

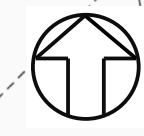




NOTES

KEY

- TWO VILLAGE BYPASS DEVELOPMENT SITE BOUNDARY
- TWO VILLAGE BYPASS ROAD LAYOUT
- WITH SCHEME 100YR +35% CC EVENT FLOOD EXTENT
- BASELINE 100YR +35% CC EVENT FLOOD EXTENT



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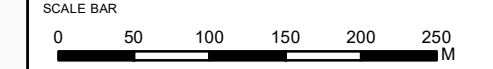


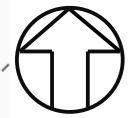
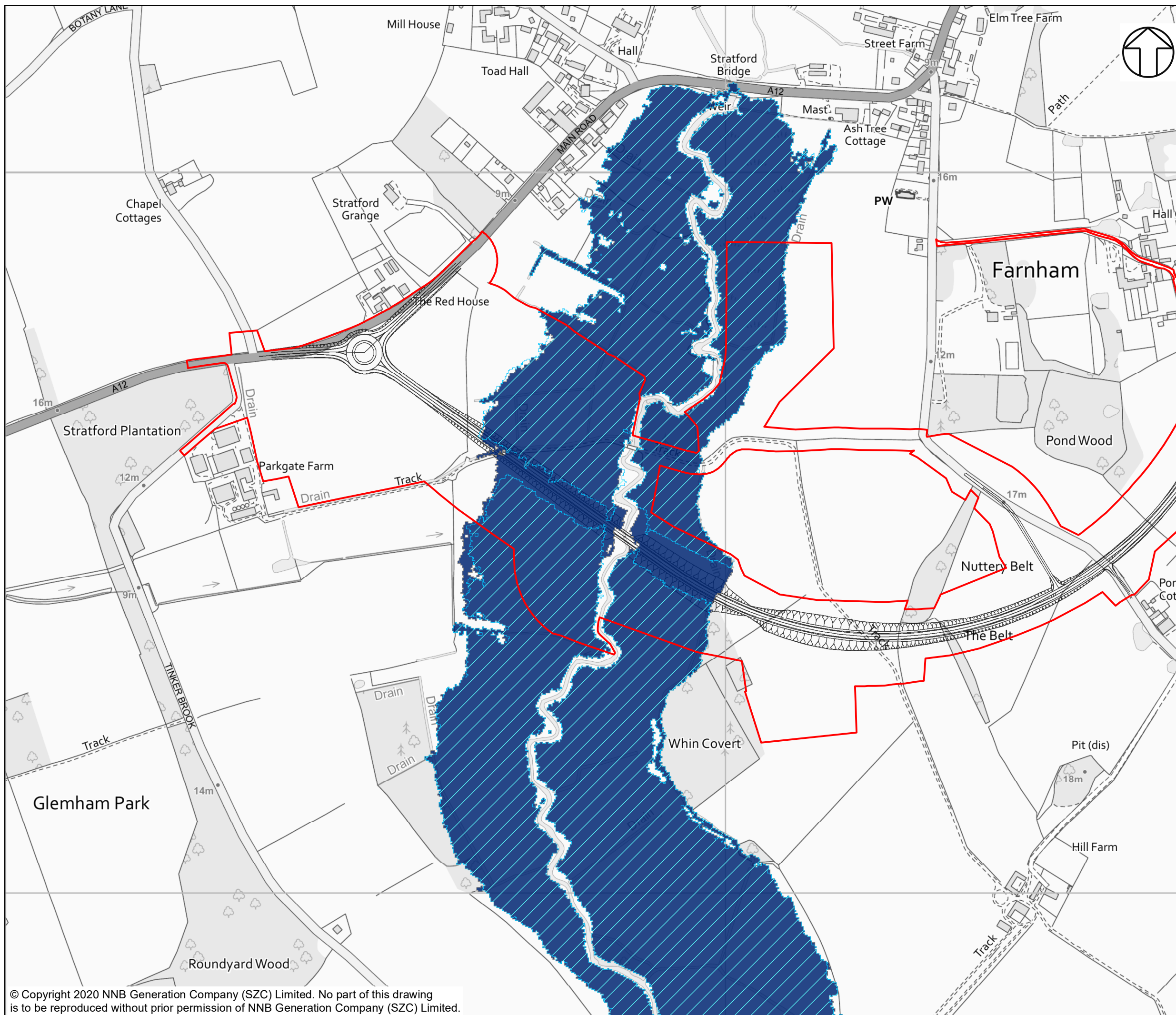
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 DIFFERENCE IN FLOOD EXTENTS BASELINE
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 100 YEAR + 35% CC

DRAWING NO:
 FIGURE C3

DATE: FEB 2020 **DRAWN:** E.H. **SCALE:** 1:5,000 @A3





NOTES

KEY

- TWO VILLAGE BYPASS DEVELOPMENT SITE BOUNDARY
- TWO VILLAGE BYPASS ROAD LAYOUT
- WITH SCHEME 100YR +65%CC EVENT FLOOD EXTENT
- BASELINE 100YR +65%CC EVENT FLOOD EXTENT

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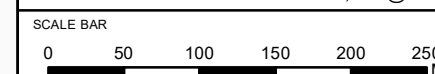


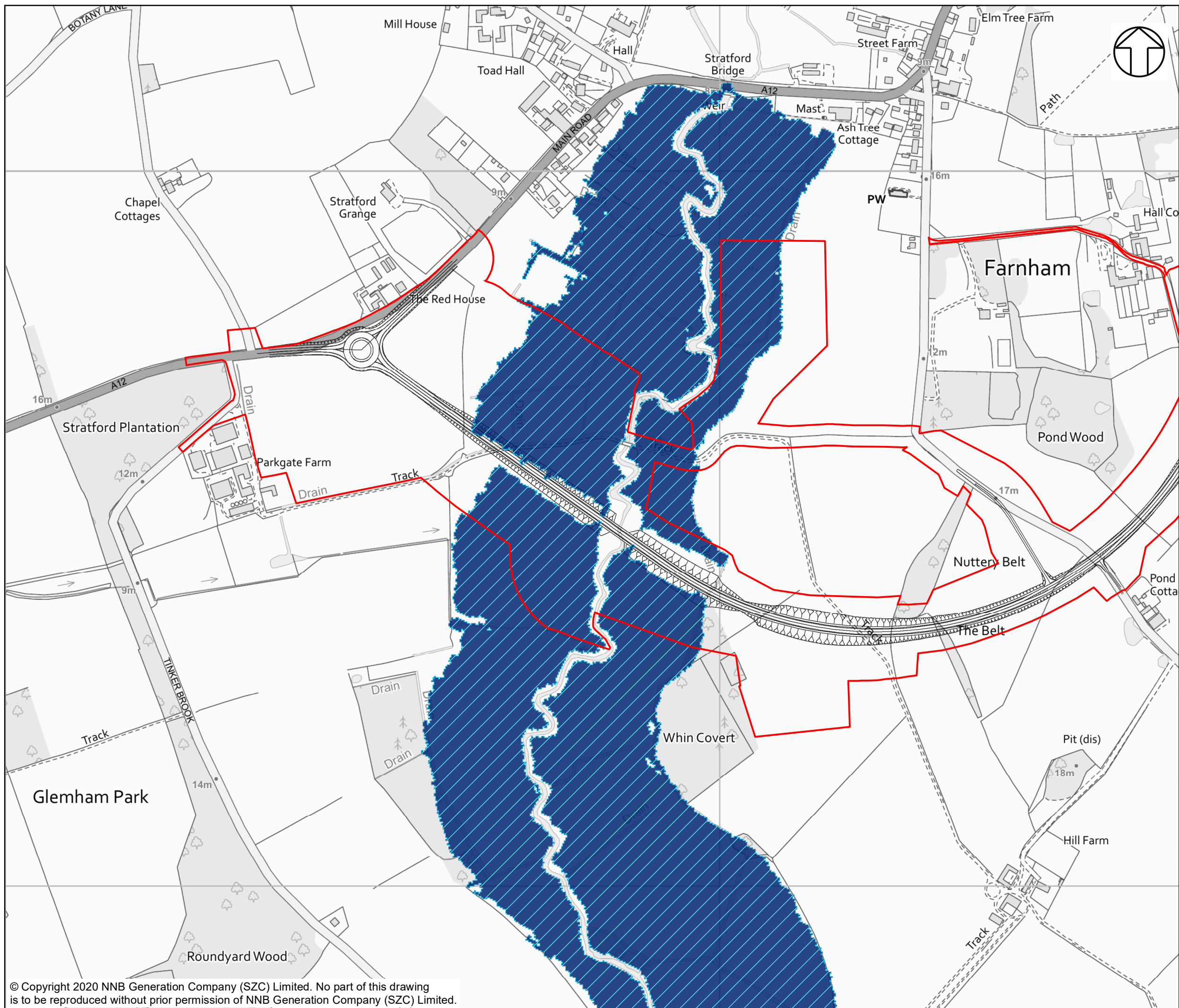
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 DIFFERENCE IN FLOOD EXTENTS BASELINE
 100 YEAR + 65% CC VS WITH SCHEME
 100 YEAR + 65% CC

DRAWING NO:
 FIGURE C4

DATE: FEB 2020 **DRAWN:** E.H. **SCALE:** 1:5,000 @A3





NOTES

KEY

- TWO VILLAGE BYPASS DEVELOPMENT SITE BOUNDARY
- TWO VILLAGE BYPASS ROAD LAYOUT
- WITH SCHEME 1000YR +35% CC EVENT FLOOD EXTENT
- BASELINE 1000YR +35% CC EVENT FLOOD EXTENT

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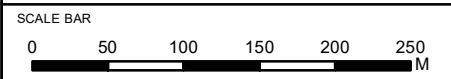


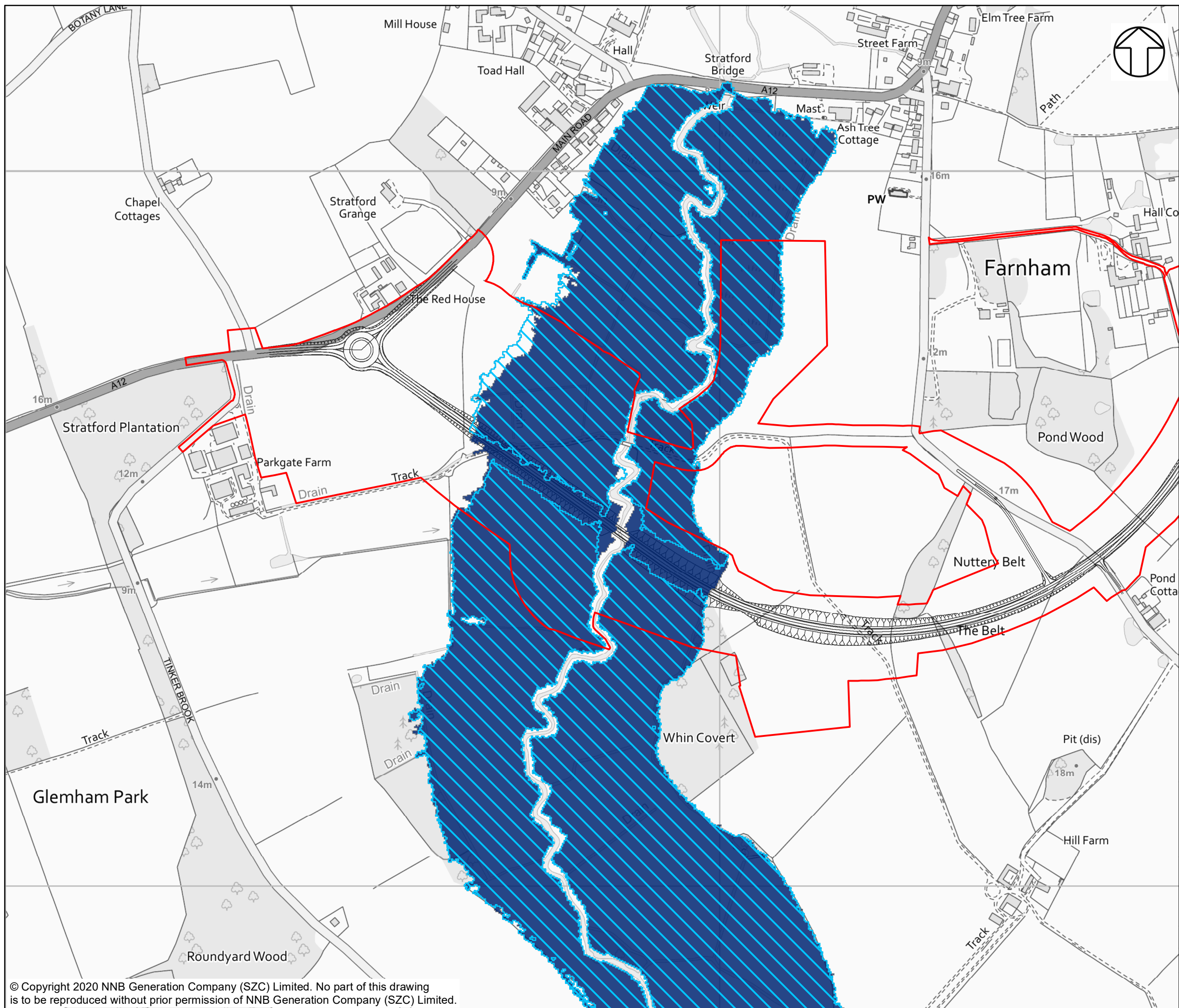
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DRAWING TITLE:
 DIFFERENCE IN FLOOD EXTENTS BASELINE
 1000 YEAR + 35% CC VS WITH SCHEME
 1000 YEAR + 35% CC

DRAWING NO:
 FIGURE C5

DATE: FEB 2020 **DRAWN:** E.H. **SCALE:** 1:5,000 @A3





NOTES

KEY

- TWO VILLAGE BYPASS DEVELOPMENT SITE BOUNDARY
- TWO VILLAGE BYPASS ROAD LAYOUT
- WITH SCHEME 1000YR +65%CC EVENT FLOOD EVENT
- BASELINE 1000YR +65%CC EVENT FLOOD EXTENT

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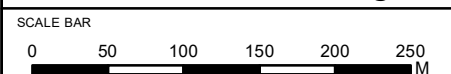


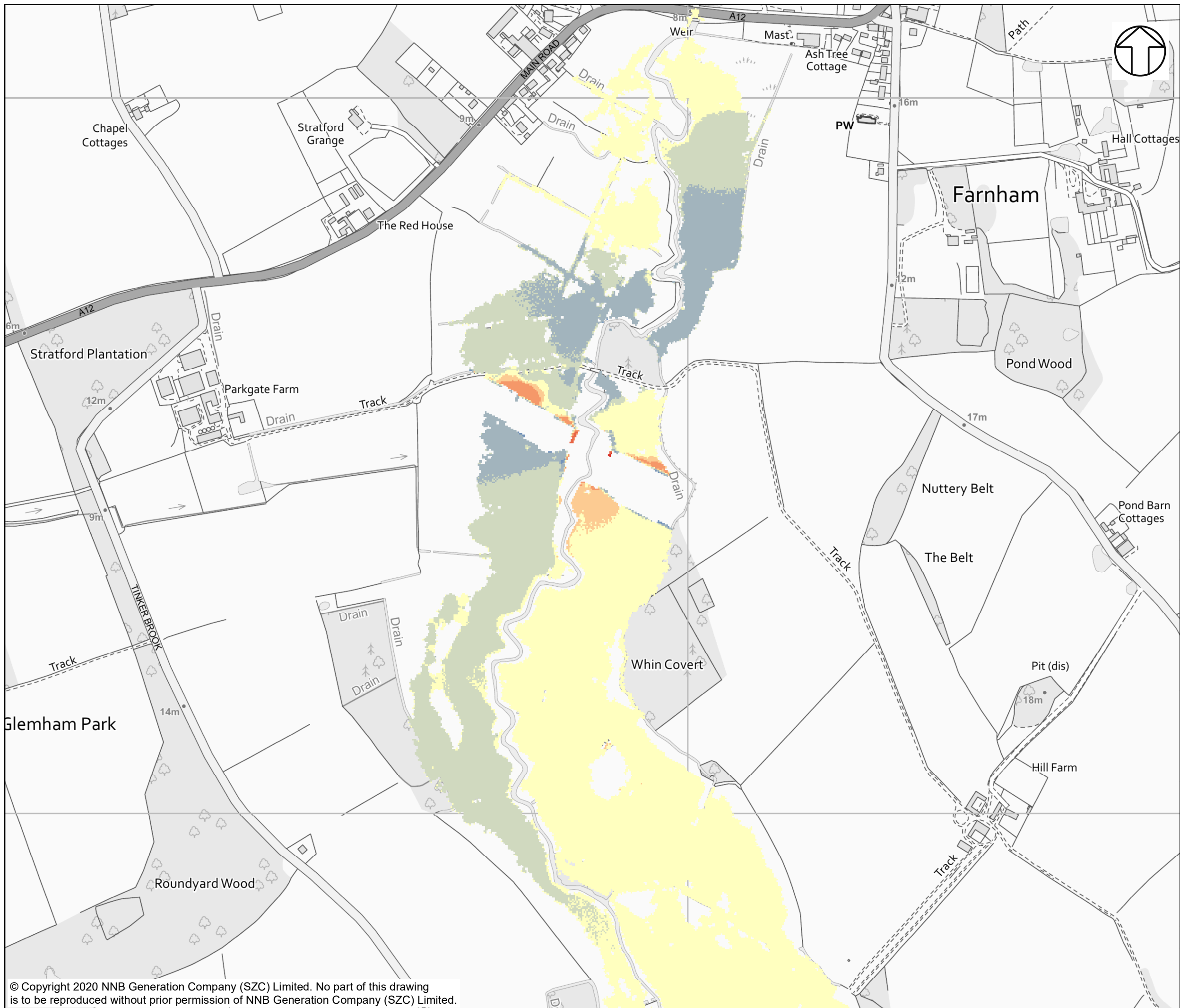
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 1000 YEAR + 65% CC

DRAWING NO:
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DATE: FEB 2020 **DRAWN:** E.H. **SCALE:** 1:5,000 @A3



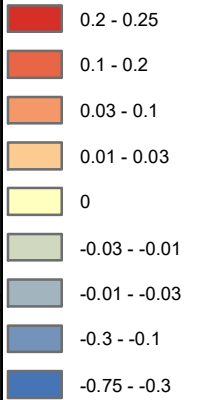


NOTES

KEY

DIFFERENCE 20 YEAR

DIFFERENCE IN FLOOD DEPTH (M)



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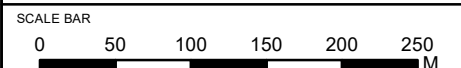


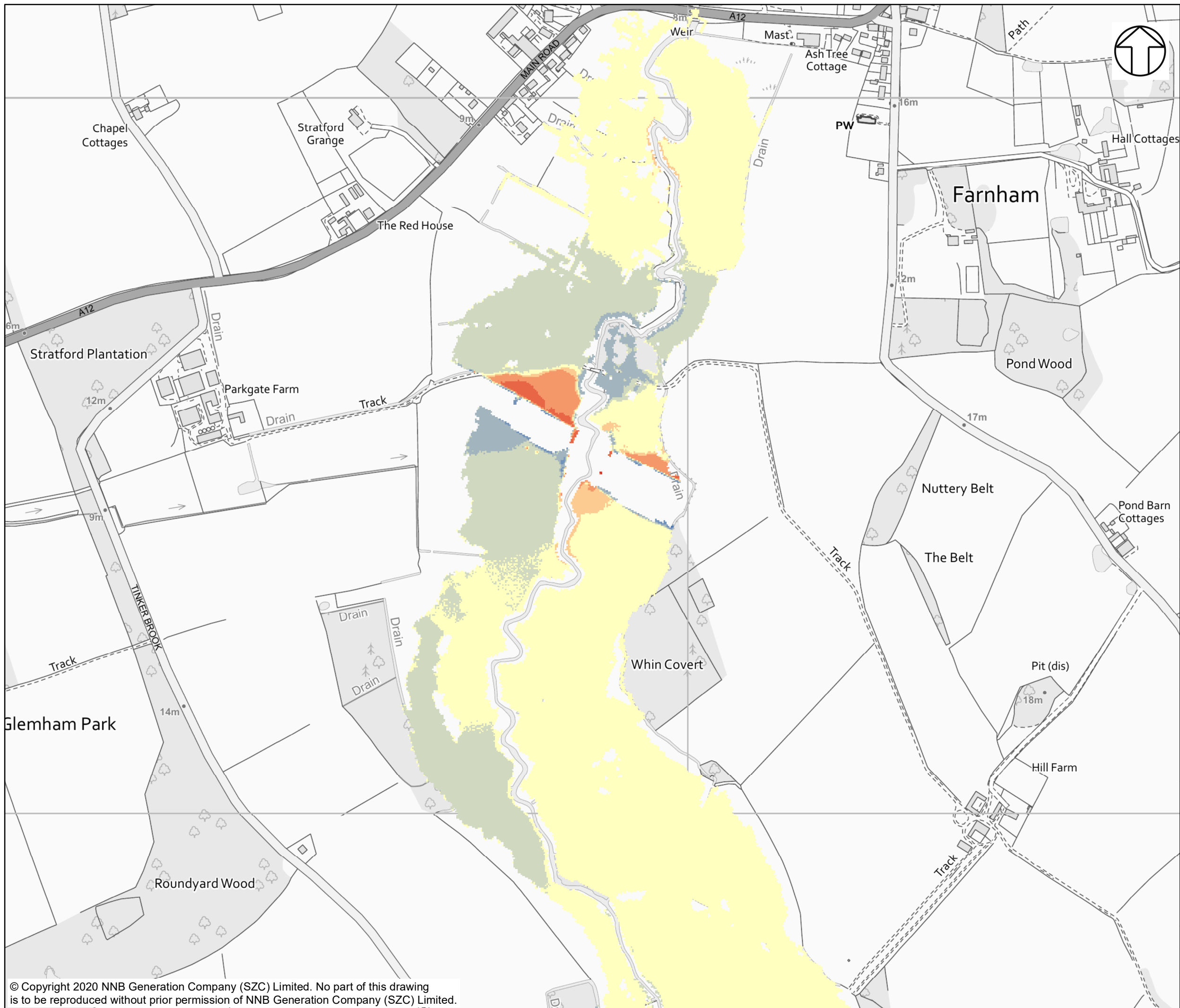
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 TWO VILLAGE BYPASS
 FLUVIAL MODEL RESULTS

DRAWING TITLE:
 DIFFERENCE IN FLOOD DEPTH 20 YEAR

DRAWING NO:
 FIGURE C.7

DATE: FEB 2020 DRAWN: E.H. SCALE: 1:5,000 @A3





NOTES

KEY

DIFFERENCE 20 YEAR +35%CC

DIFFERENCE IN FLOOD DEPTH (M)

- 0.3 - 0.31
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 0.75 - -0.3



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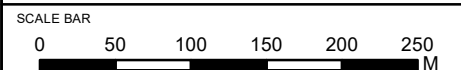


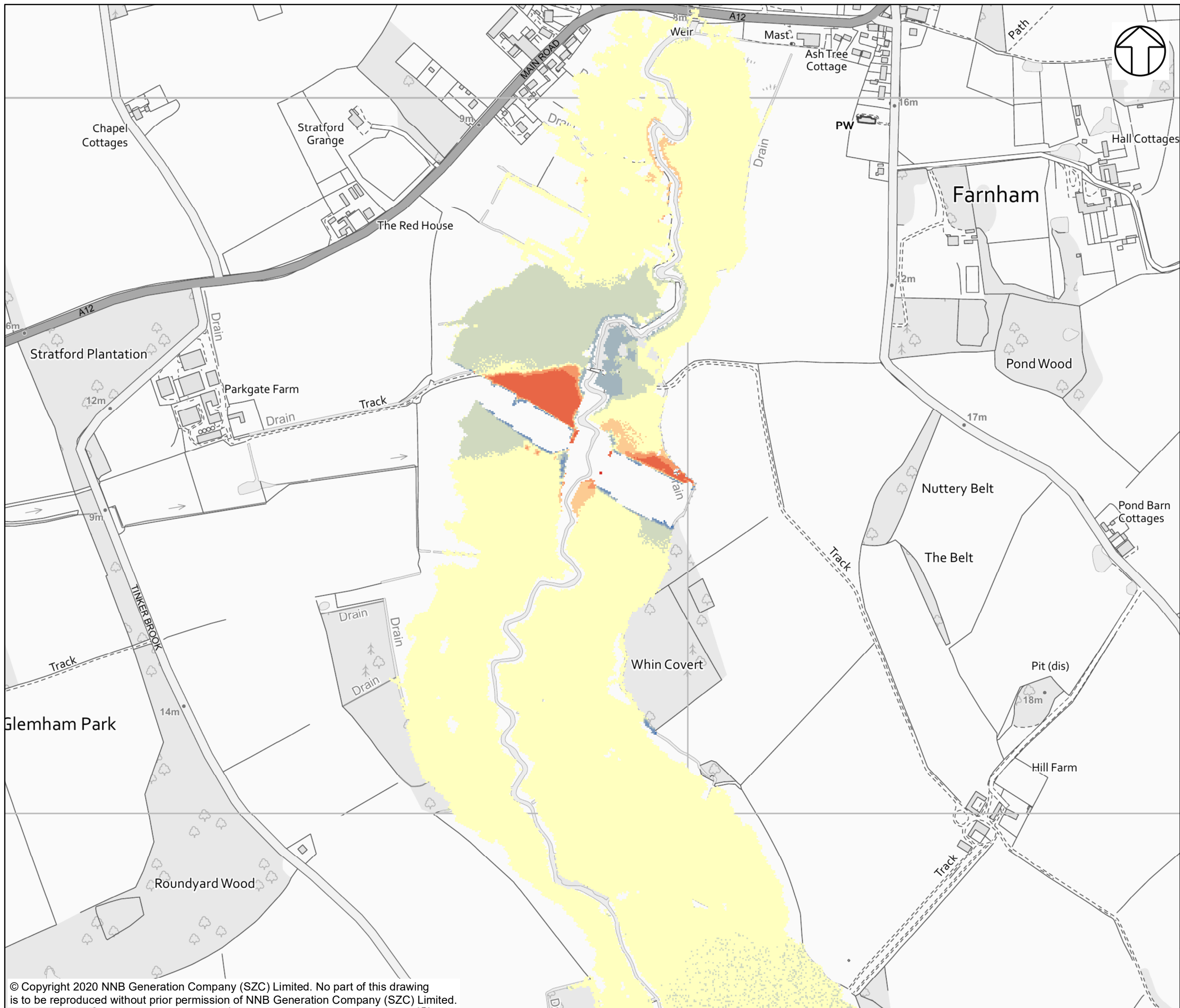
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 TWO VILLAGE BYPASS
 FLUVIAL MODEL RESULTS

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 DIFFERENCE IN FLOOD DEPTH 20 YEAR +35%CC

DRAWING NO:
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DATE: FEB 2020 DRAWN: E.H. SCALE: 1:5,000 @A3



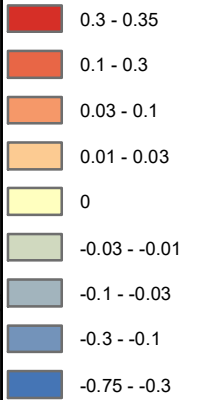


NOTES

KEY

DIFFERENCE 20 YEAR +65CC

DIFFERENCE IN FLOOD DEPTH (M)



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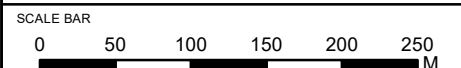


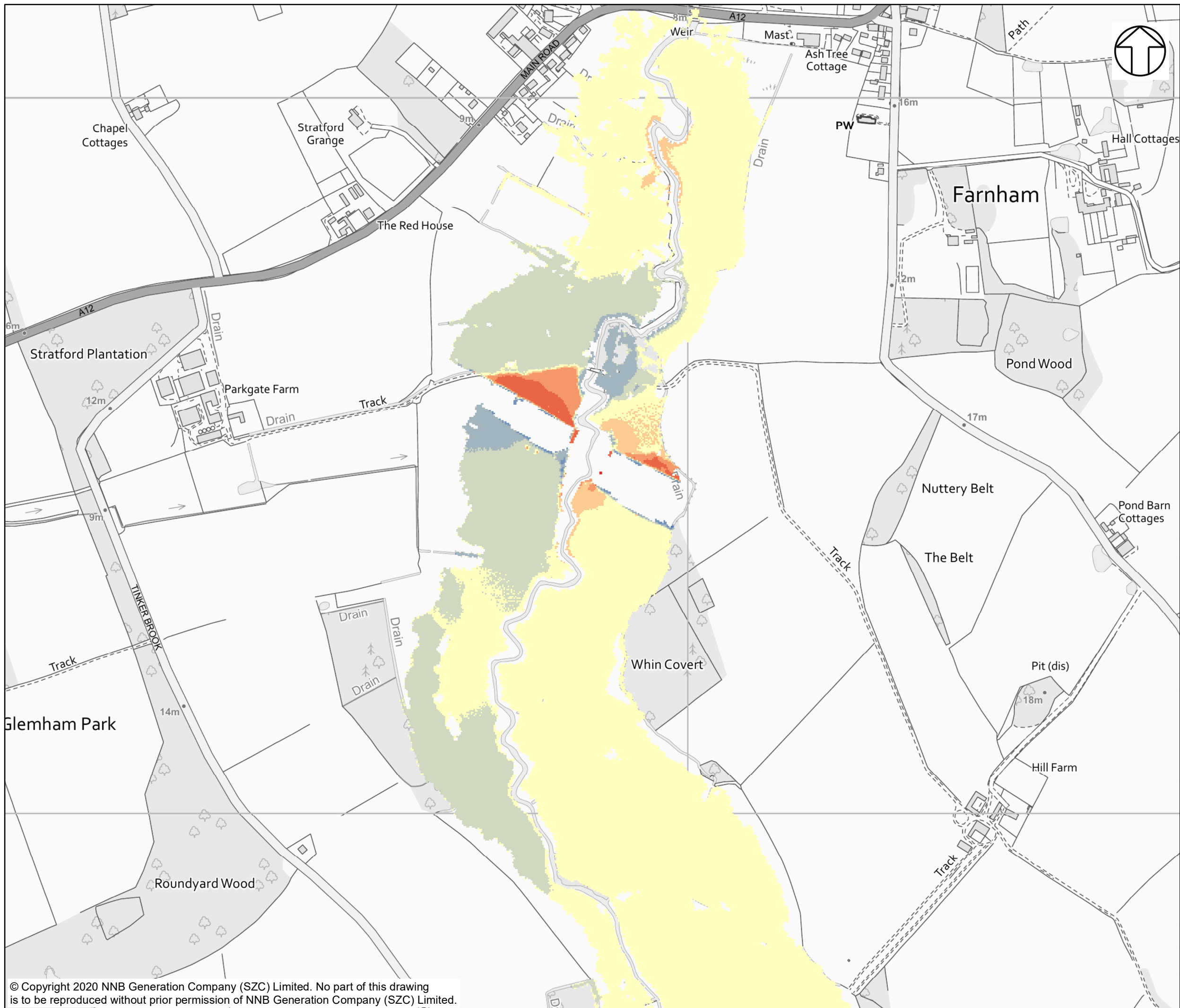
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 TWO VILLAGE BYPASS
 FLUVIAL MODEL RESULTS

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 DIFFERENCE IN FLOOD DEPTH
 20 YEAR +65CC

DRAWING NO:
 FIGURE C.9

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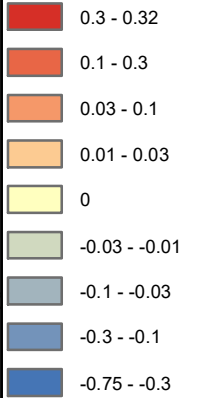


NOTES

KEY

DIFFERENCE 100 YEAR

DIFFERENCE IN FLOOD DEPTH (M)



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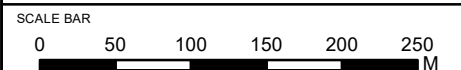


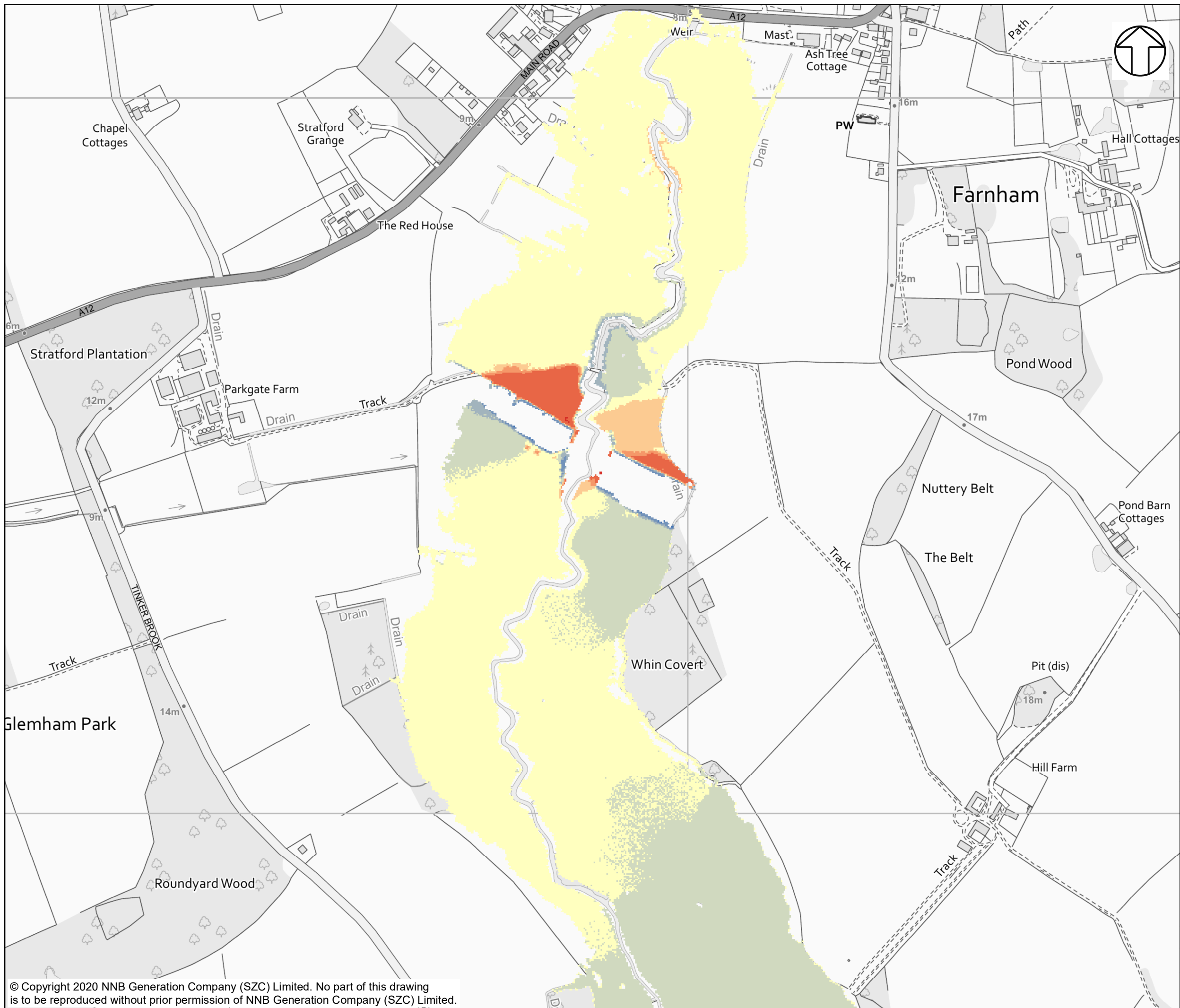
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 TWO VILLAGE BYPASS
 FLUVIAL MODEL RESULTS

DRAWING TITLE:
 DIFFERENCE IN FLOOD DEPTH 100 YEAR

DRAWING NO:
 FIGURE C.10

DATE: FEB 2020 **DRAWN:** E.H. **SCALE:** 1:5,000 @A3





NOTES

KEY

DIFFERENCE 100 YEAR +35%CC

DIFFERENCE IN FLOOD DEPTH (M)

- 0.3 - 0.35
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 0.75 - -0.3



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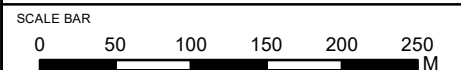


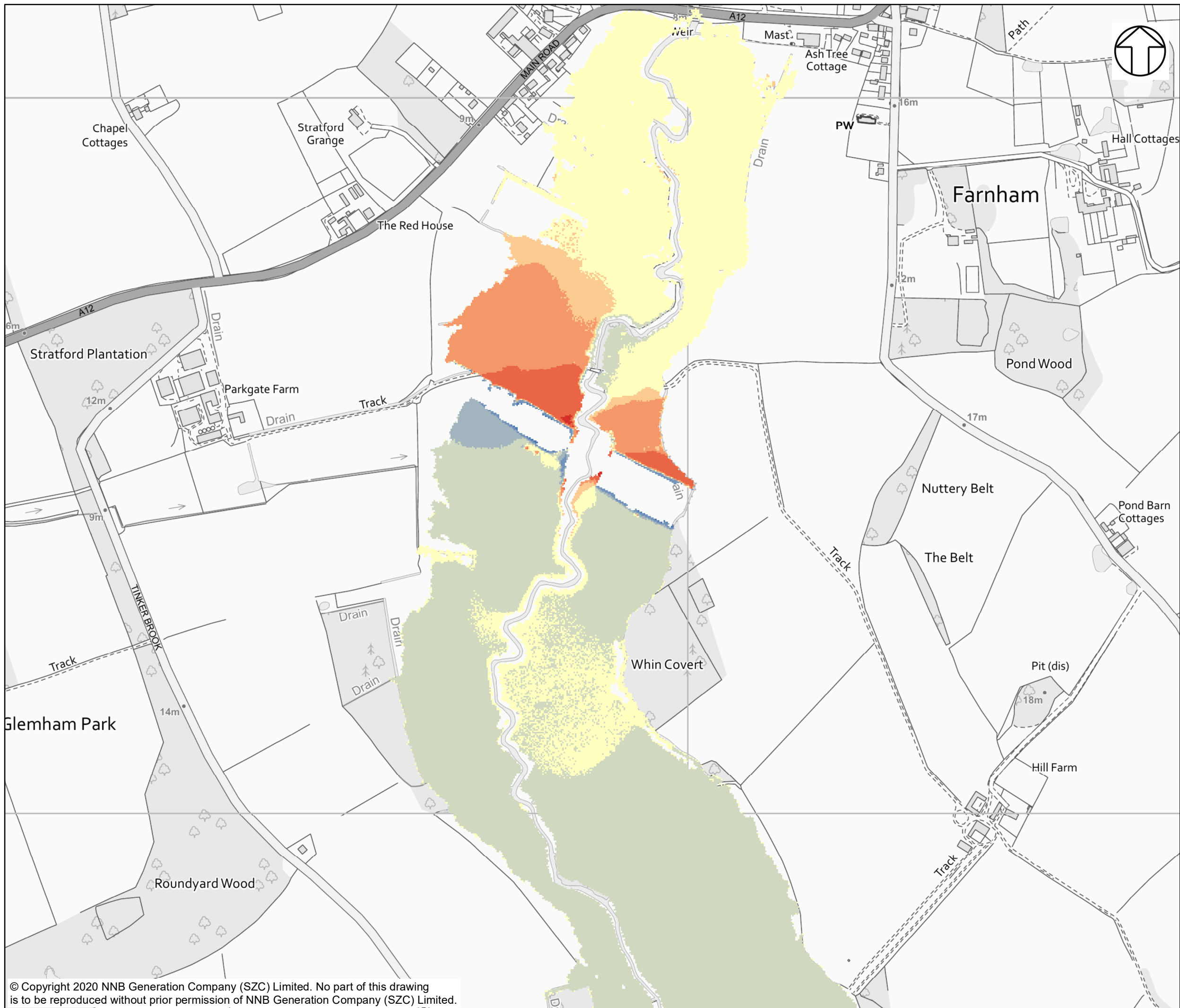
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 TWO VILLAGE BYPASS
 FLUVIAL MODEL RESULTS

DRAWING TITLE:
 DIFFERENCE IN FLOOD DEPTH 100 YEAR +35%CC

DRAWING NO:
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DATE: FEB 2020 **DRAWN:** E.H. **SCALE:** 1:5,000 @A3

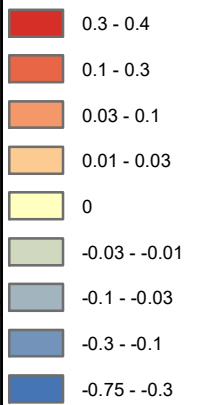




NOTES

KEY

**DIFFERENCE 100 YEAR +65CC
DIFFERENCE IN FLOOD DEPTH (M)**



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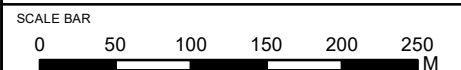


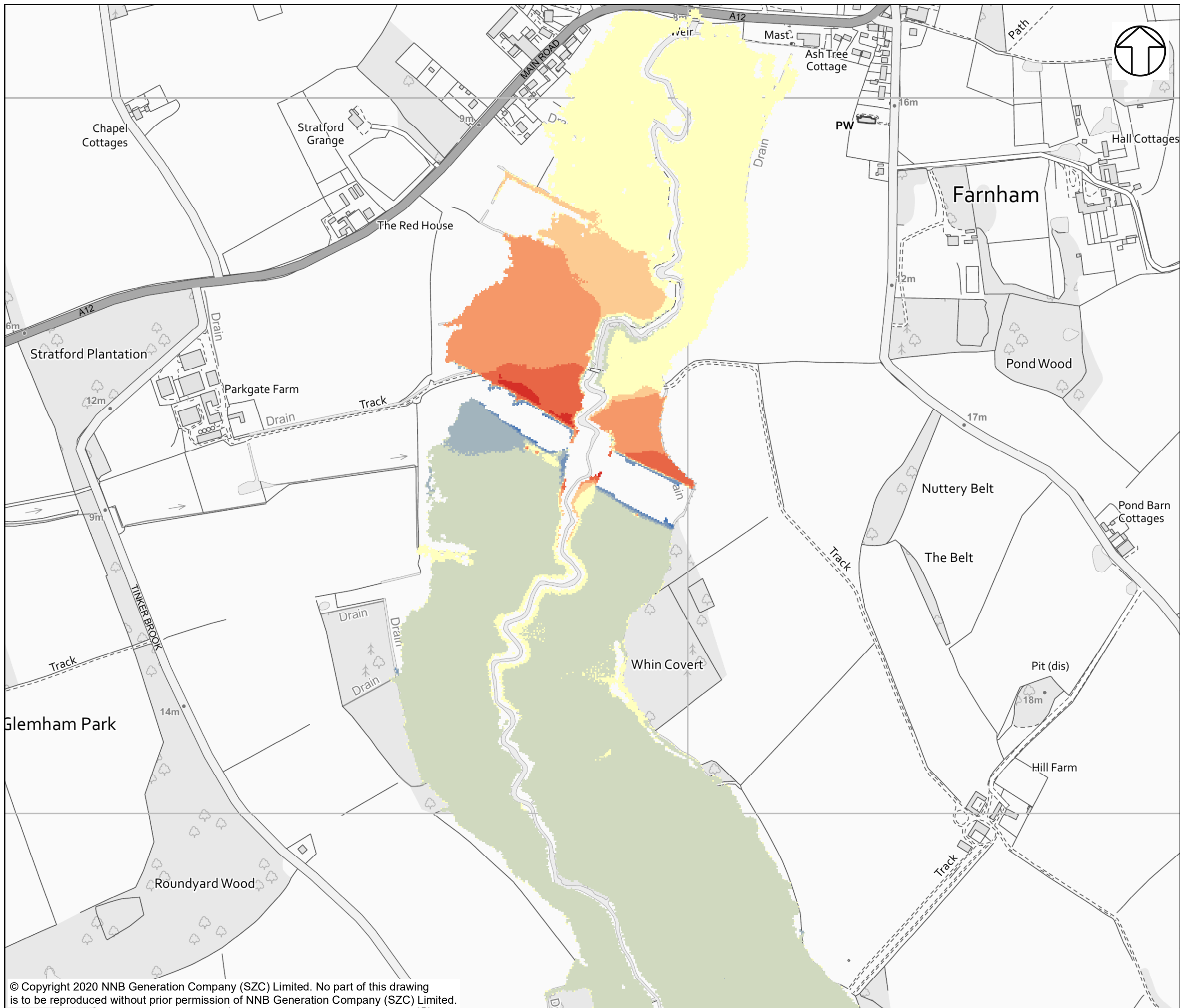
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TWO VILLAGE BYPASS
FLUVIAL MODEL RESULTS

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DIFFERENCE IN FLOOD DEPTH
100 YEAR +65CC

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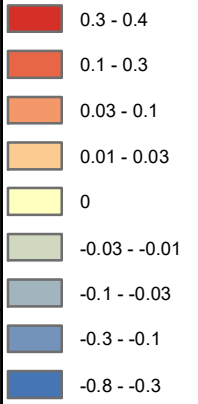


NOTES

KEY

DIFFERENCE 1000 YEAR

DIFFERENCE IN FLOOD DEPTH (M)



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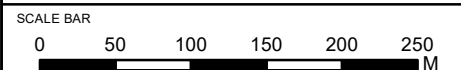


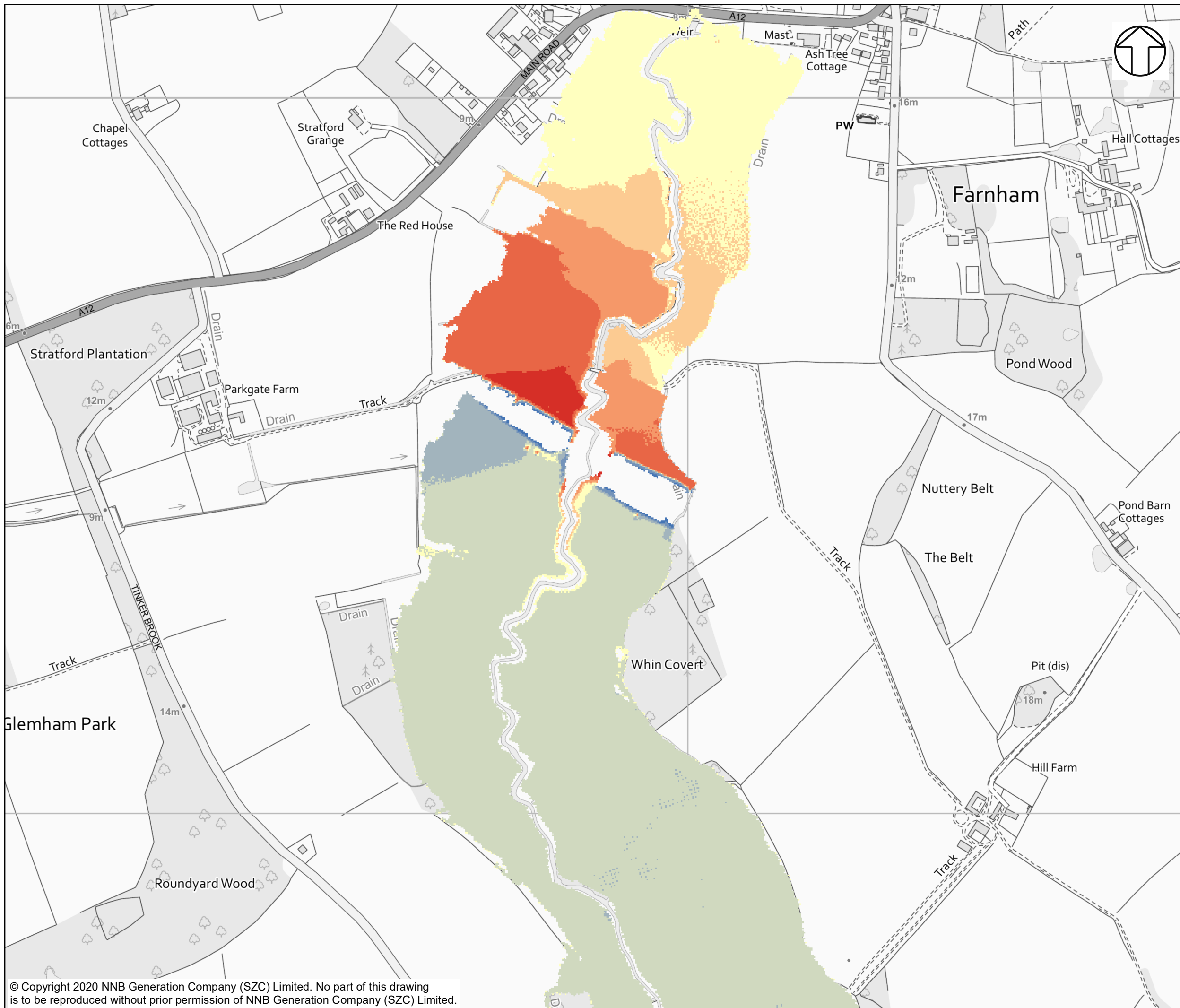
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 TWO VILLAGE BYPASS
 FLUVIAL MODEL RESULTS

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 DIFFERENCE IN FLOOD DEPTH 1000 YEAR

DRAWING NO:
 FIGURE C.13

DATE: FEB 2020 DRAWN: E.H. SCALE: 1:5,000 @A3



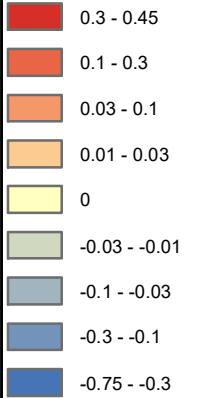


NOTES

KEY

DIFFERENCE 1000 YEAR +35%CC

DIFFERENCE IN FLOOD DEPTH (M)



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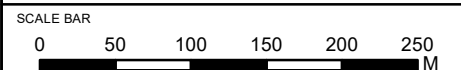


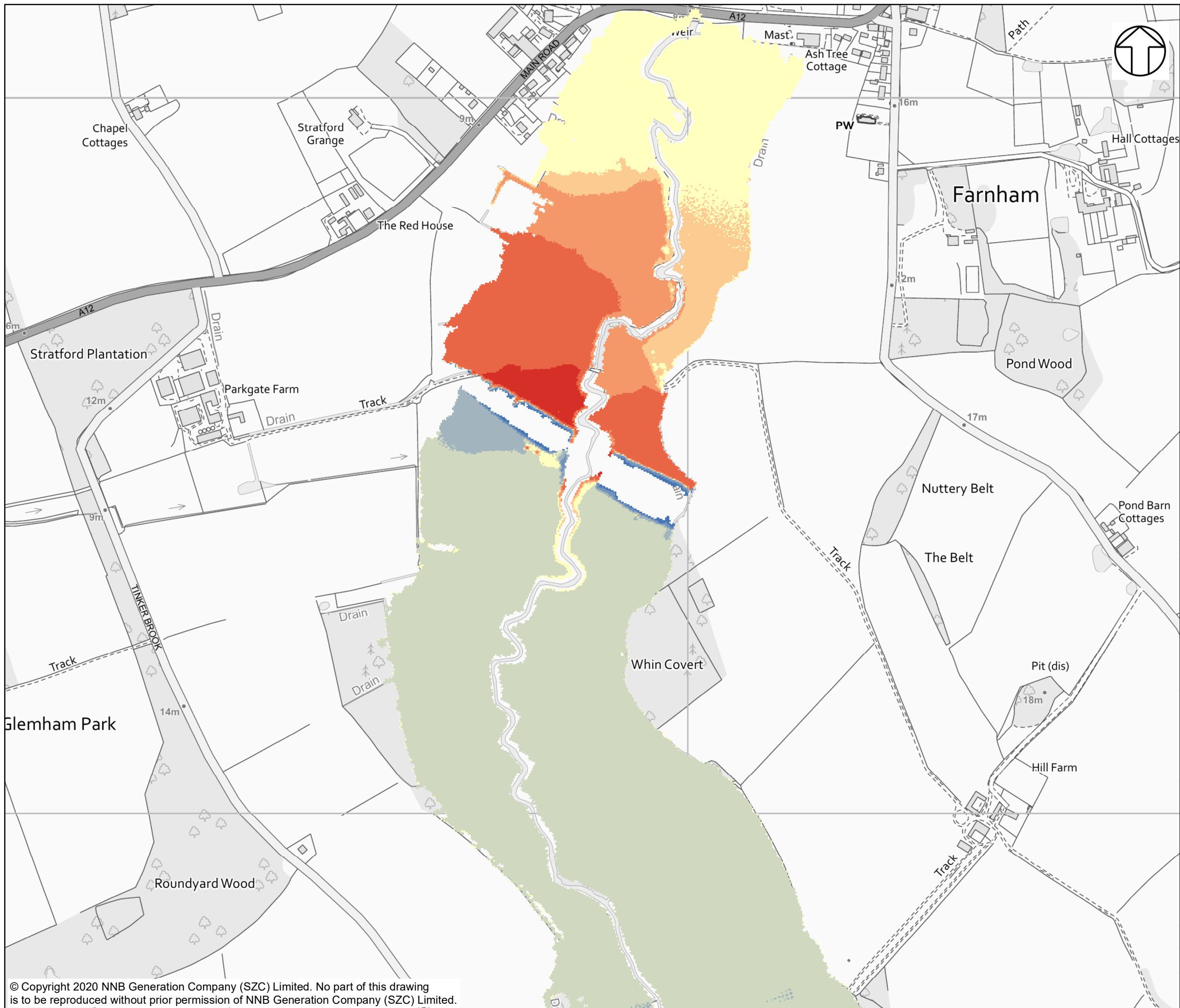
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 TWO VILLAGE BYPASS
 FLUVIAL MODEL RESULTS

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 DIFFERENCE IN FLOOD DEPTH
 1000 YEAR +35%CC

DRAWING NO:
 FIGURE C.14

DATE: FEB 2020 DRAWN: E.H. SCALE: 1:5,000 @A3





NOTES

KEY

DIFFERENCE 1000 YEAR +65%CC

DIFFERENCE IN FLOOD DEPTH (M)

- 0.3 - 0.5
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 0.75 - -0.3



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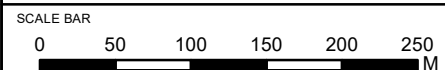


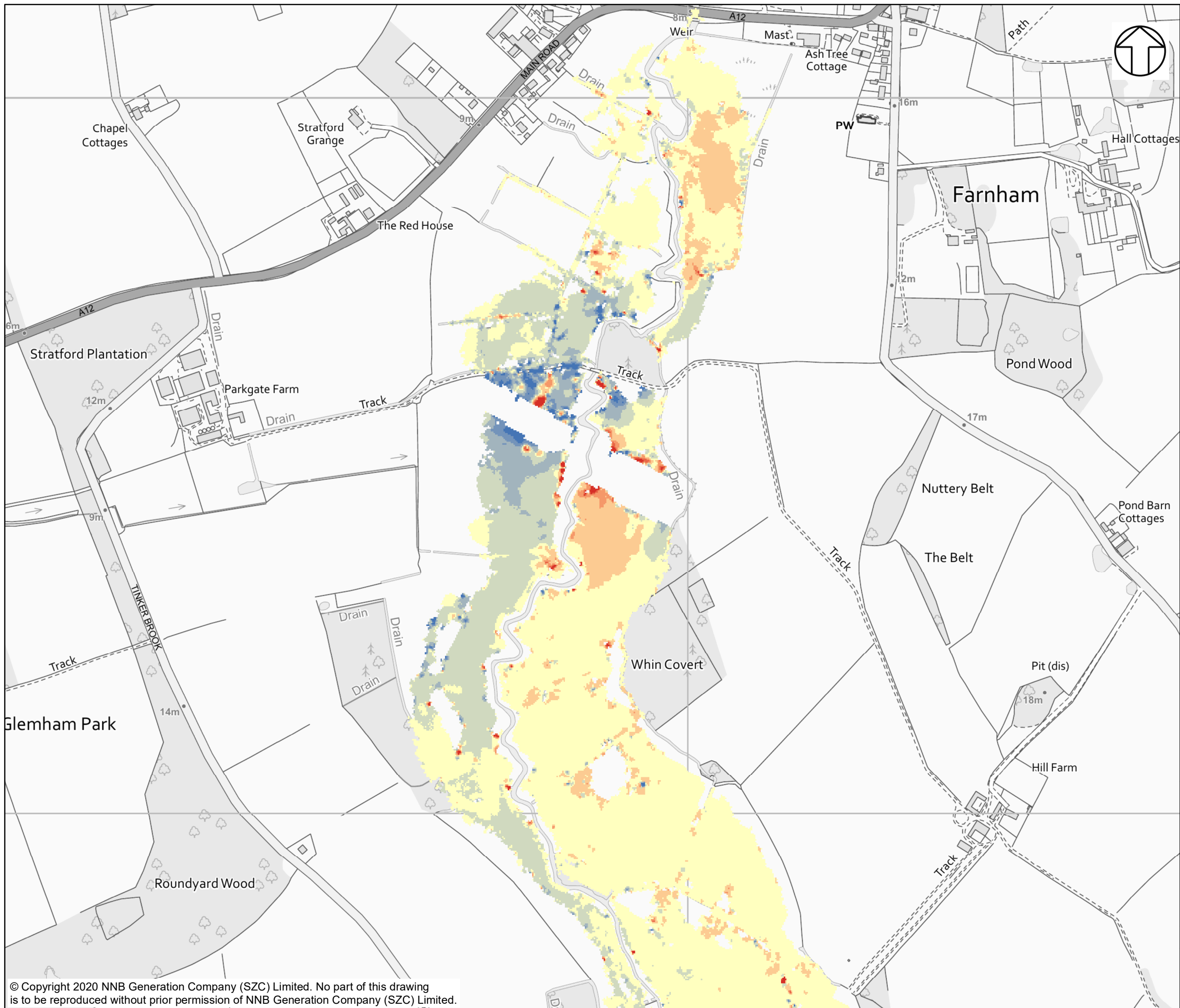
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 TWO VILLAGE BYPASS
 FLUVIAL MODEL RESULTS

DRAWING TITLE:
 DIFFERENCE IN FLOOD DEPTH
 1000 YEAR +65CC

DRAWING NO:
 FIGURE C.15

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NOTES

KEY

DIFFERENCE 20 YEAR PRESENT DAY

DIFFERENCE IN FLOOD VELOCITY (m/s)

- 0.15 - 1.2
- 0.1 - 0.15
- 0.05 - 0.1
- 0.01 - 0.05
- 0.01 - 0.01
- 0.05 - -0.01
- 0.01 - -0.05
- 0.15 - -0.1
- 0.7 - -0.15



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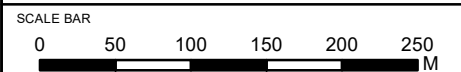


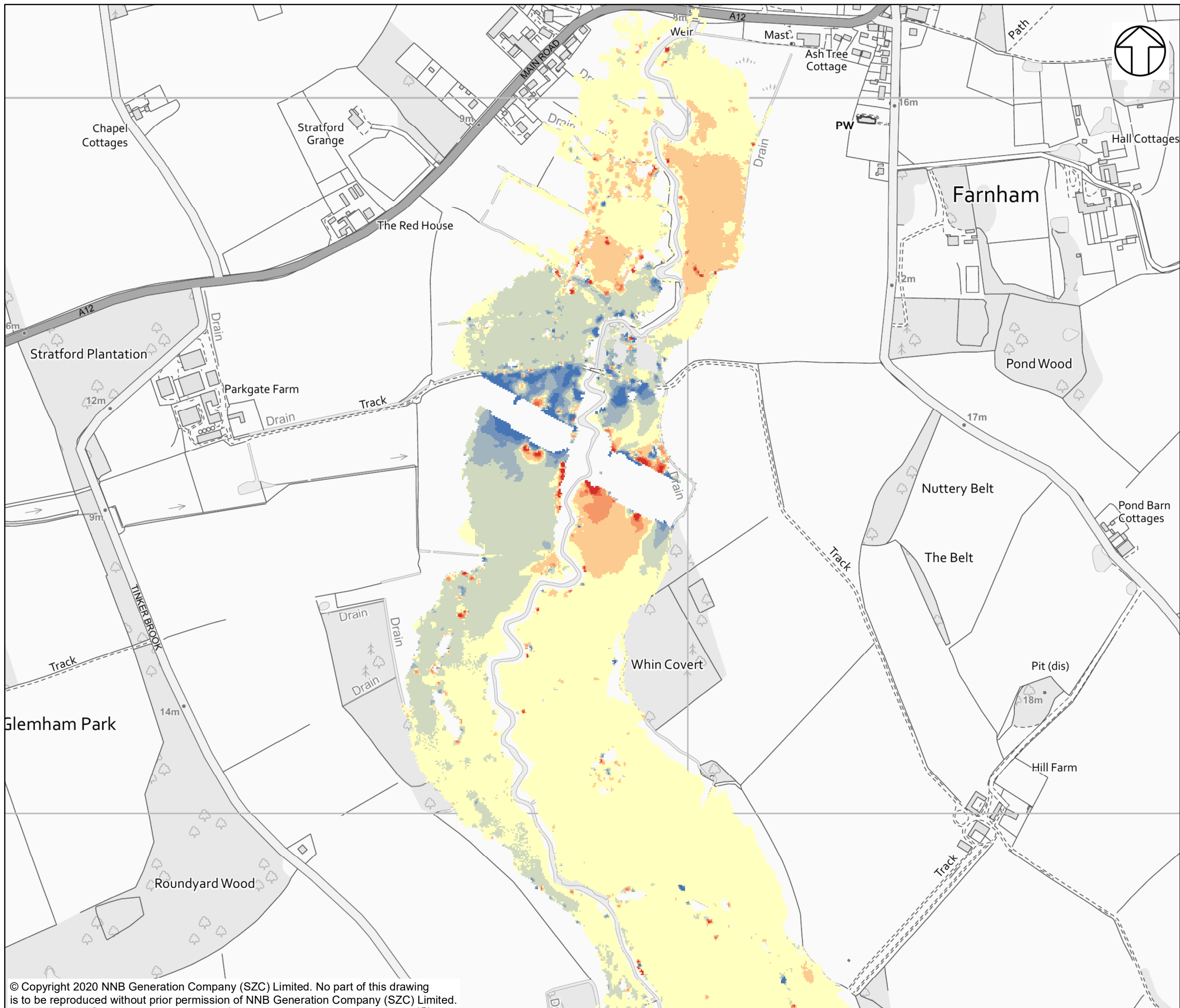
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 TWO VILLAGE BYPASS
 FLUVIAL MODEL RESULTS

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 DIFFERENCE IN FLOOD VELOCITY BASELINE
 20 YEAR PRESENT DAY VS WITH SCHEME
 20 YEAR PRESENT DAY

DRAWING NO:
 FIGURE C.16

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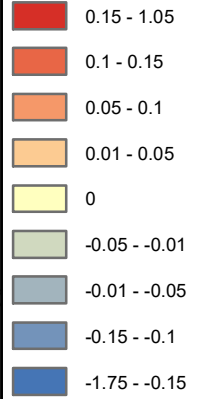


NOTES

KEY

DIFFERENCE 20 YEAR +35%CC

DIFFERENCE IN FLOOD VELOCITY (m/s)



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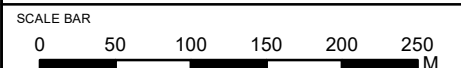


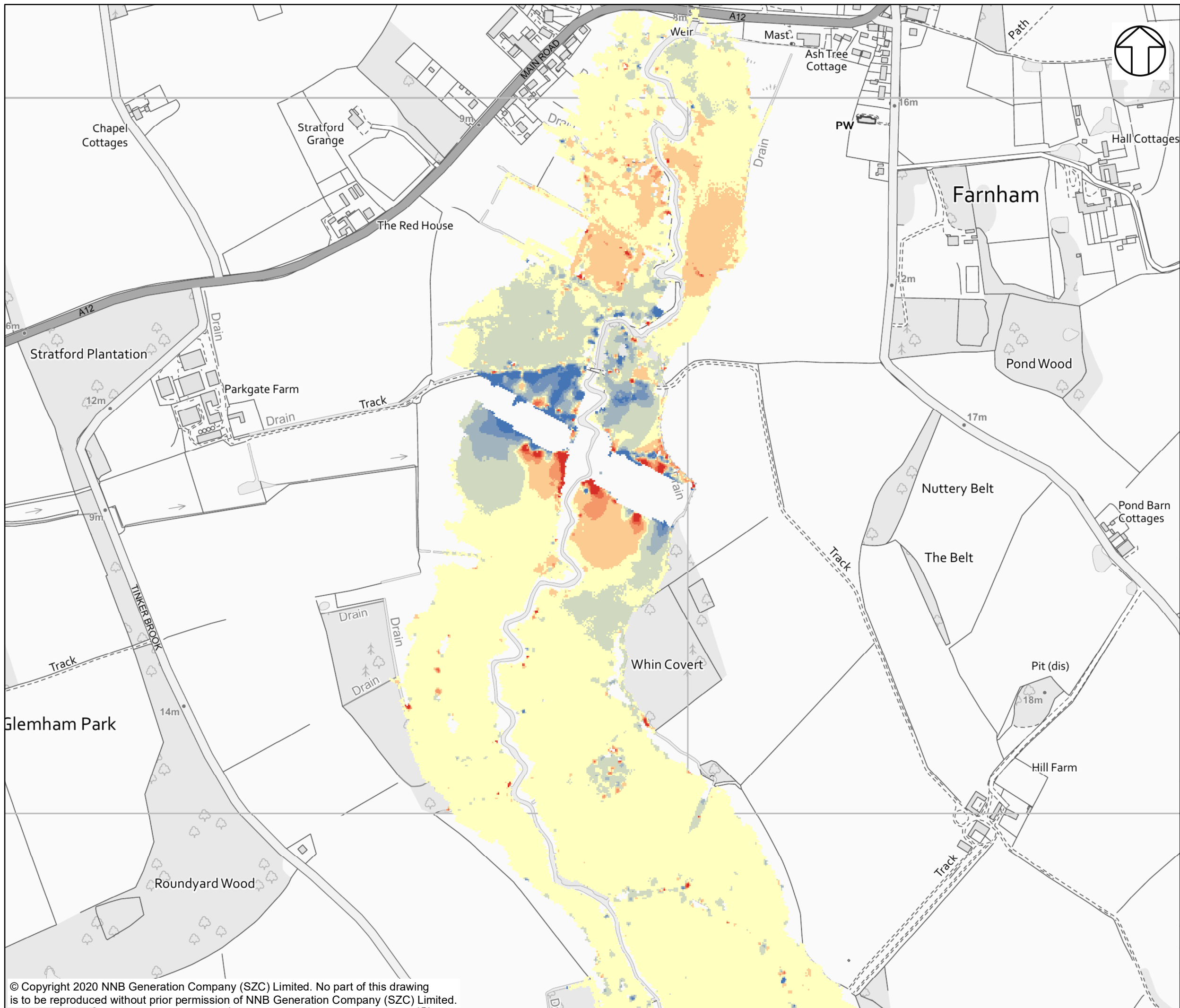
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 FLUVIAL MODEL RESULTS

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 DIFFERENCE IN FLOOD VELOCITY BASELINE
 20 YEAR +35%CC VS WITH SCHEME
 20 YEAR +35%CC

DRAWING NO:
 FIGURE C.17

DATE: FEB 2020 DRAWN: E.H. SCALE: 1:5,000 @A3



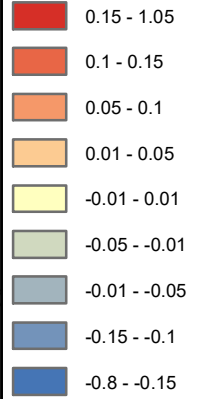


NOTES

KEY

DIFFERENCE 20 YEAR +65%CC

DIFFERENCE IN FLOOD VELOCITY (m/s)



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 DIFFERENCE IN FLOOD VELOCITY BASELINE
 20 YEAR +65%CC VS WITH SCHEME
 20 YEAR +65%CC

DRAWING NO:
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DATE: FEB 2020 **DRAWN:** E.H. **SCALE:** 1:5,000 @A3

