

Scale: 1:5,000

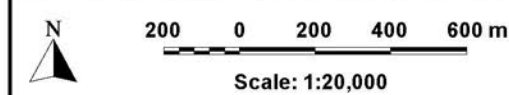
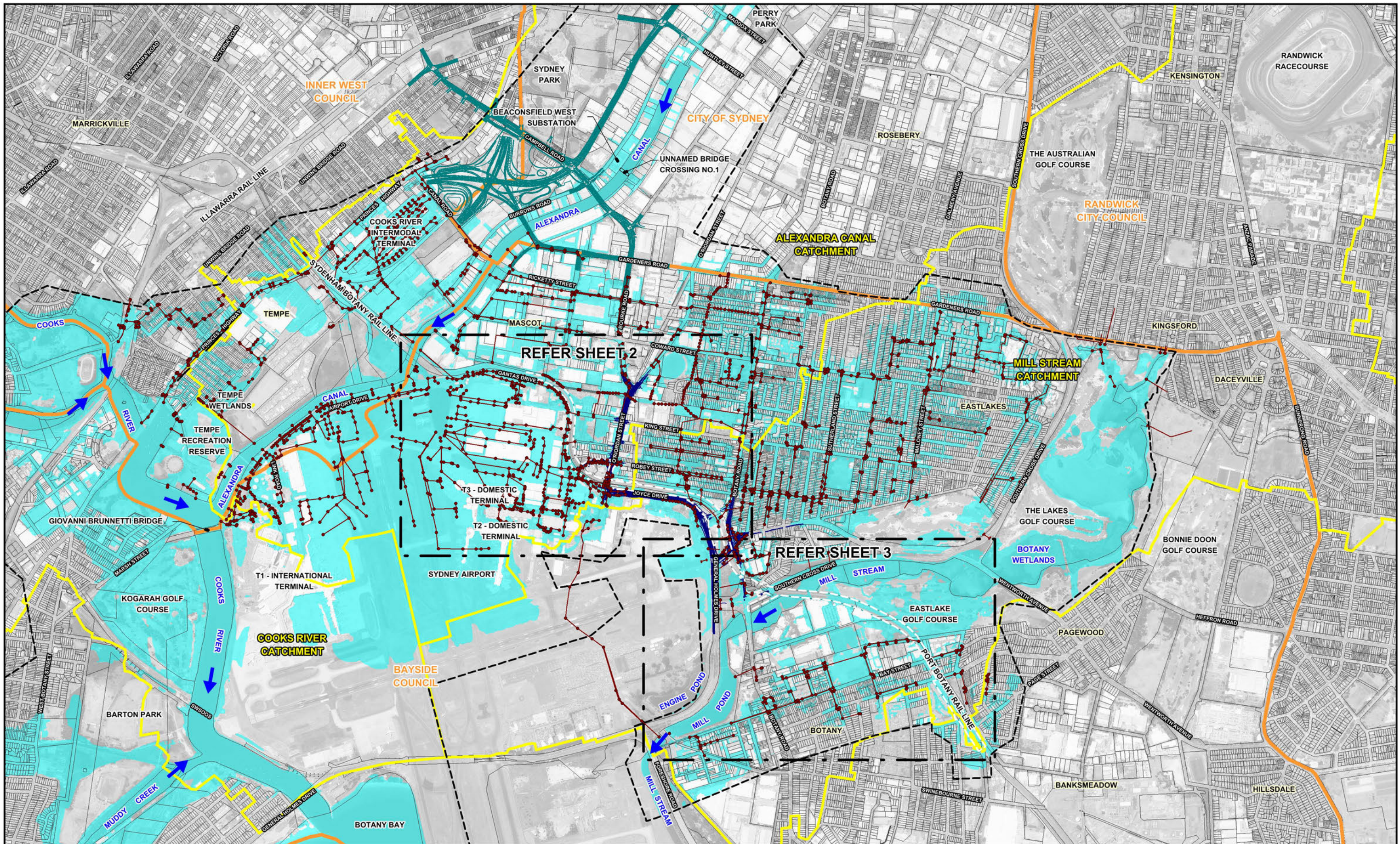
Lyall & Associates

Note:
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BOTANY RAIL DUPLICATION EIS TECHNICAL WORKING PAPER: FLOODING

Figure B.5
(Sheet 3 of 3)

**PATTERNS OF MAIN STREAM FLOODING AND MAJOR OVERLAND FLOW
PRE-PROJECT CONDITIONS - 0.2% AEP EVENT**



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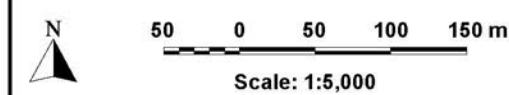
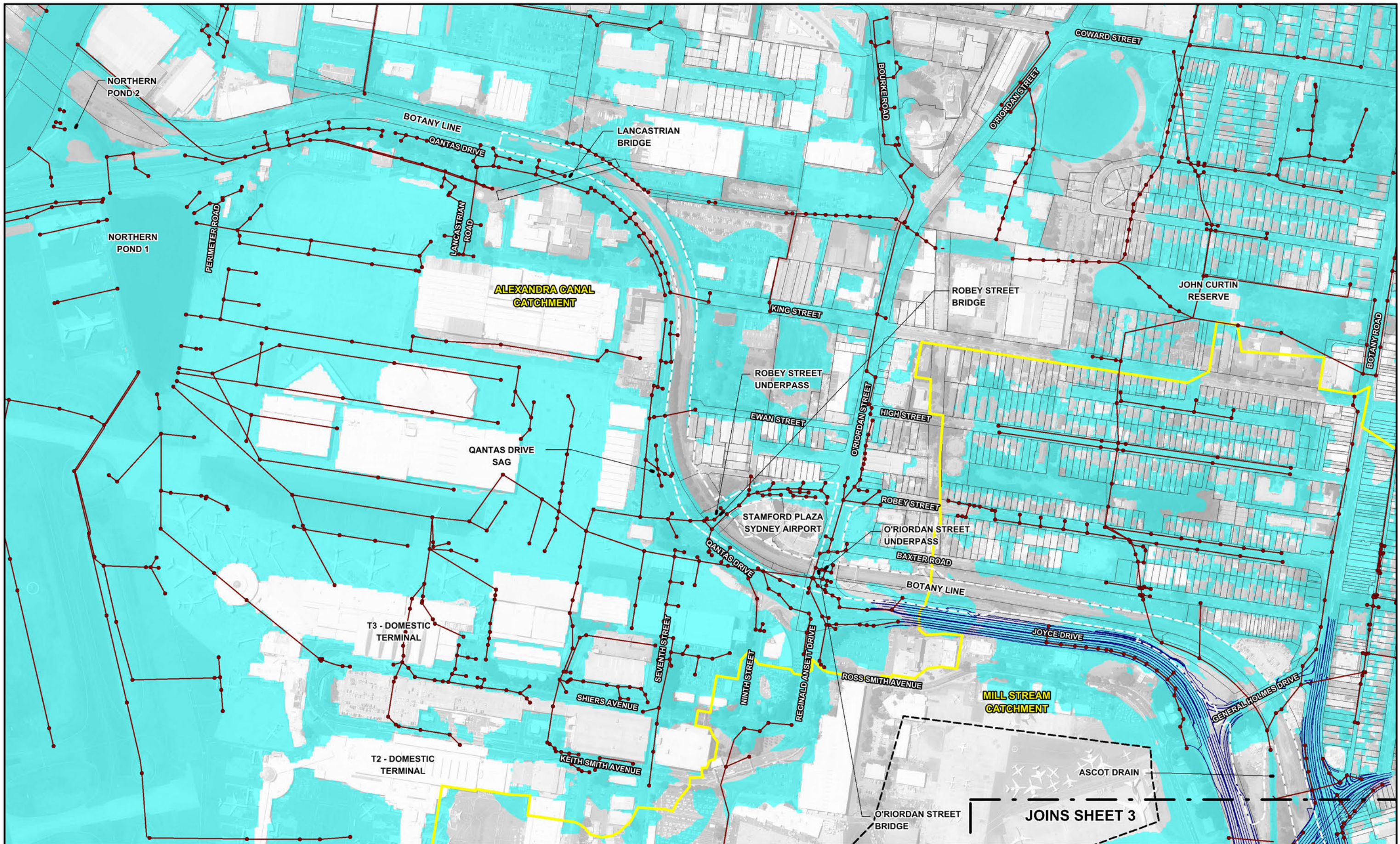
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- LEGEND**
- Two-Dimensional Model Boundary
 - LGA Boundary
 - Catchment Boundary
 - Existing Drainage System
 - Project Footprint
 - Airport North and Airport East Road Works
 - New M5 Surface Road Works
 - Flood Planning Area

**BOTANY RAIL DUPLICATION EIS
TECHNICAL WORKING PAPER: FLOODING**

Figure B.6
(Sheet 1 of 3)

**FLOOD PLANNING AREA
PRE-PROJECT CONDITIONS - 1% AEP EVENT**



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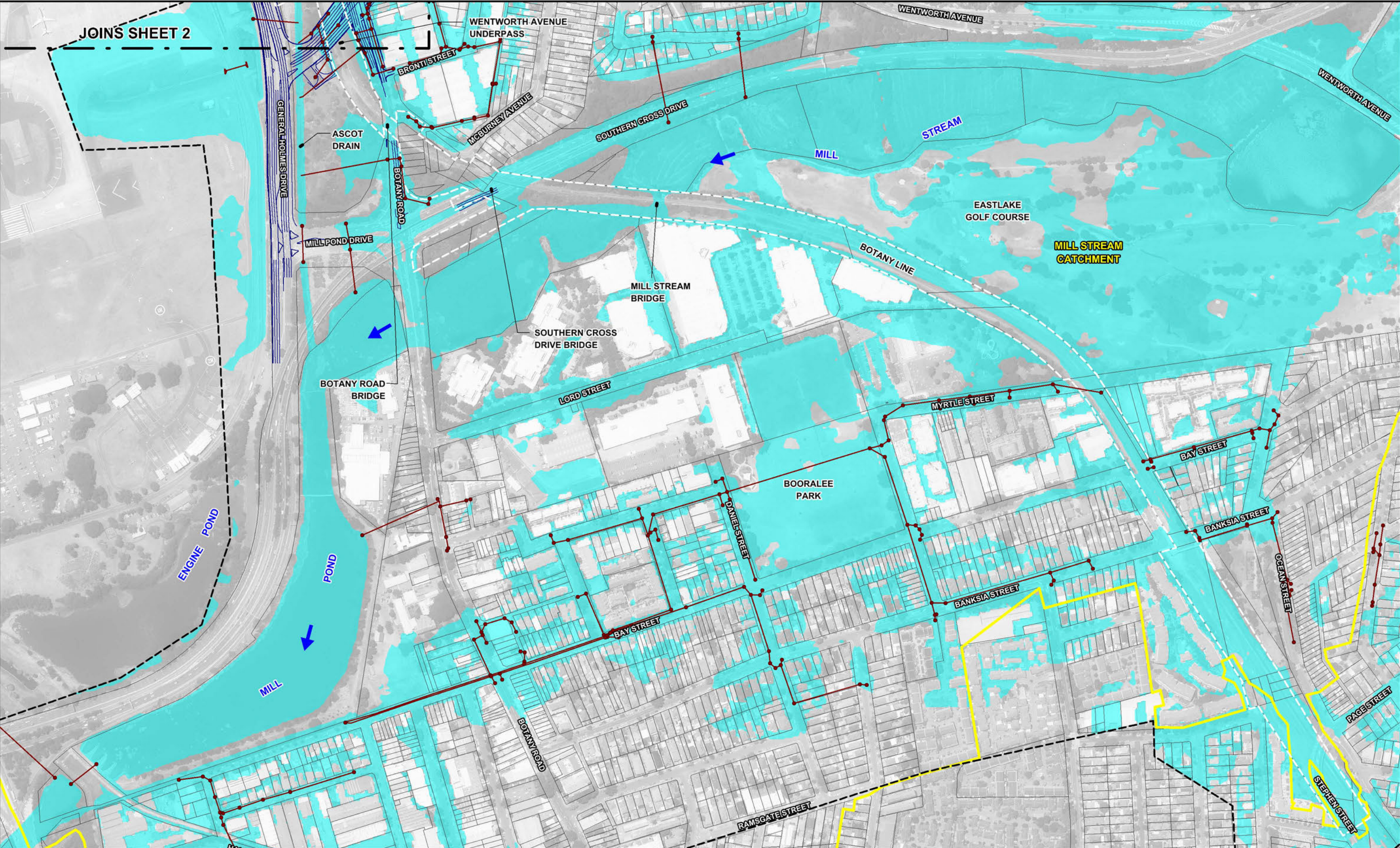
Lyall & Associates

- LEGEND**
- Two-Dimensional Model Boundary
 - Catchment Boundary
 - Existing Drainage System
 - Project Footprint
 - Airport North and Airport East Road Works
 - Flood Planning Area

**BOTANY RAIL DUPLICATION EIS
TECHNICAL WORKING PAPER: FLOODING**

Figure B.6
(Sheet 2 of 3)

**FLOOD PLANNING AREA
PRE-PROJECT CONDITIONS - 1% AEP EVENT**



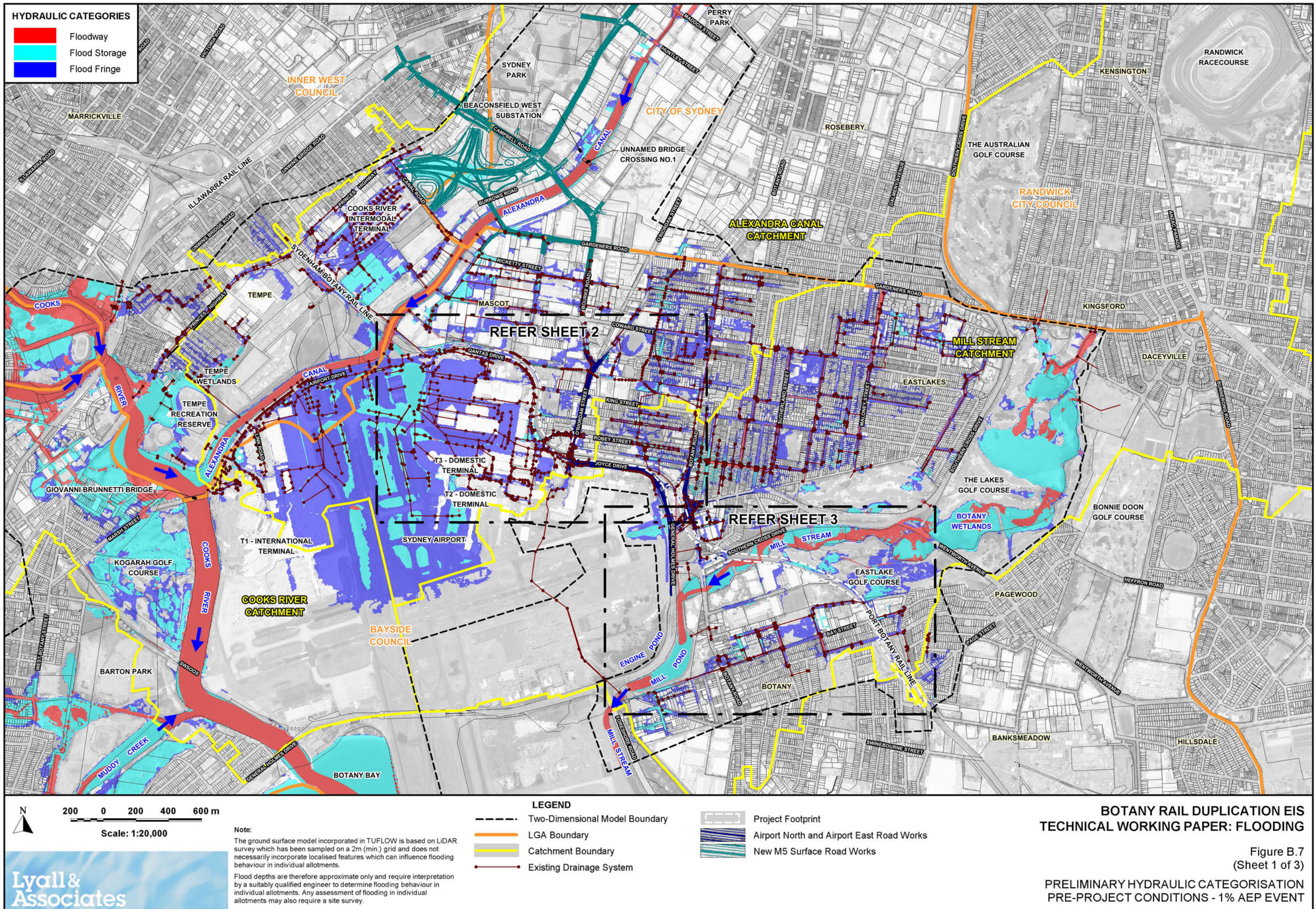
50 0 50 100 150 m
Scale: 1:5,000

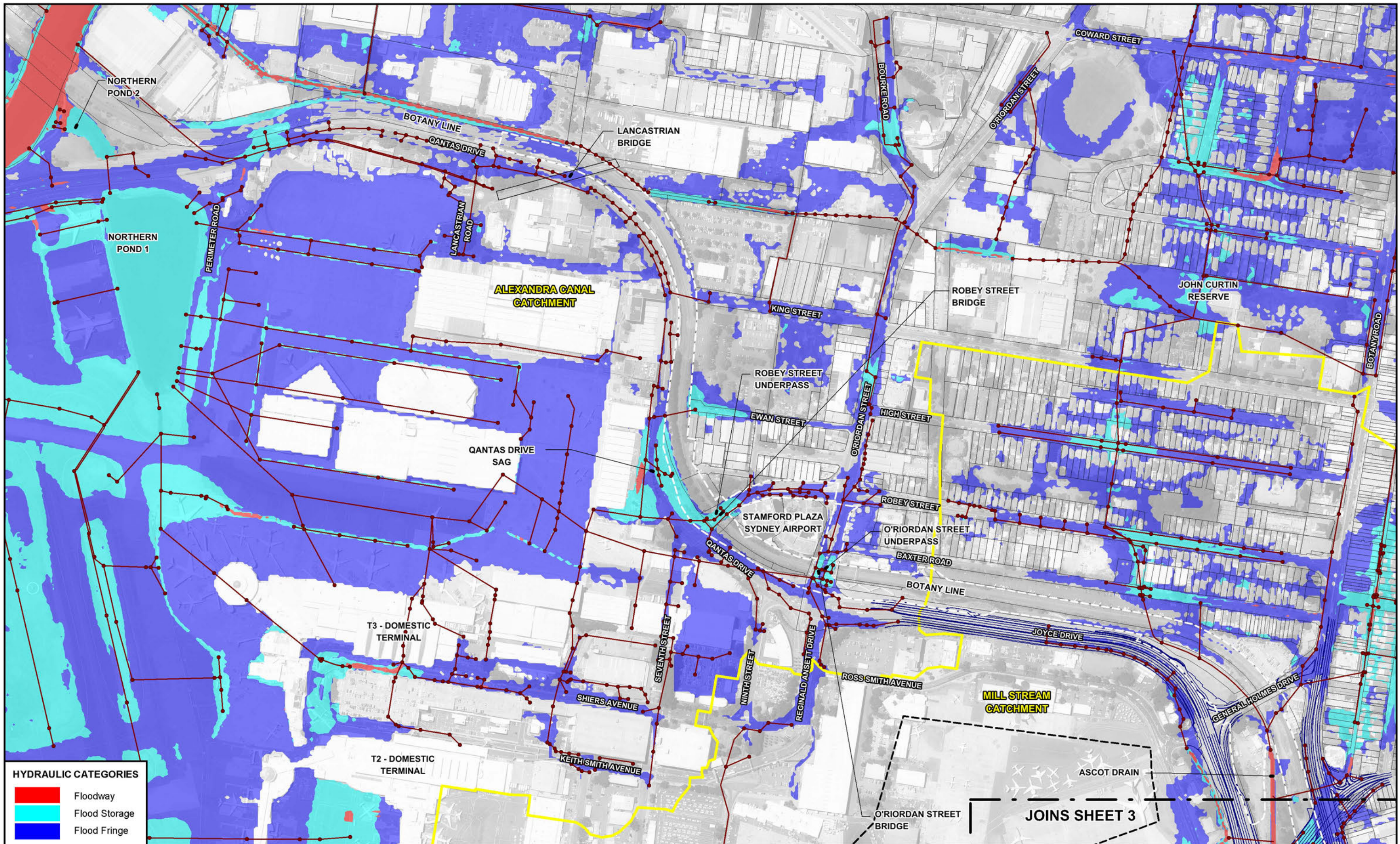
Lyall & Associates

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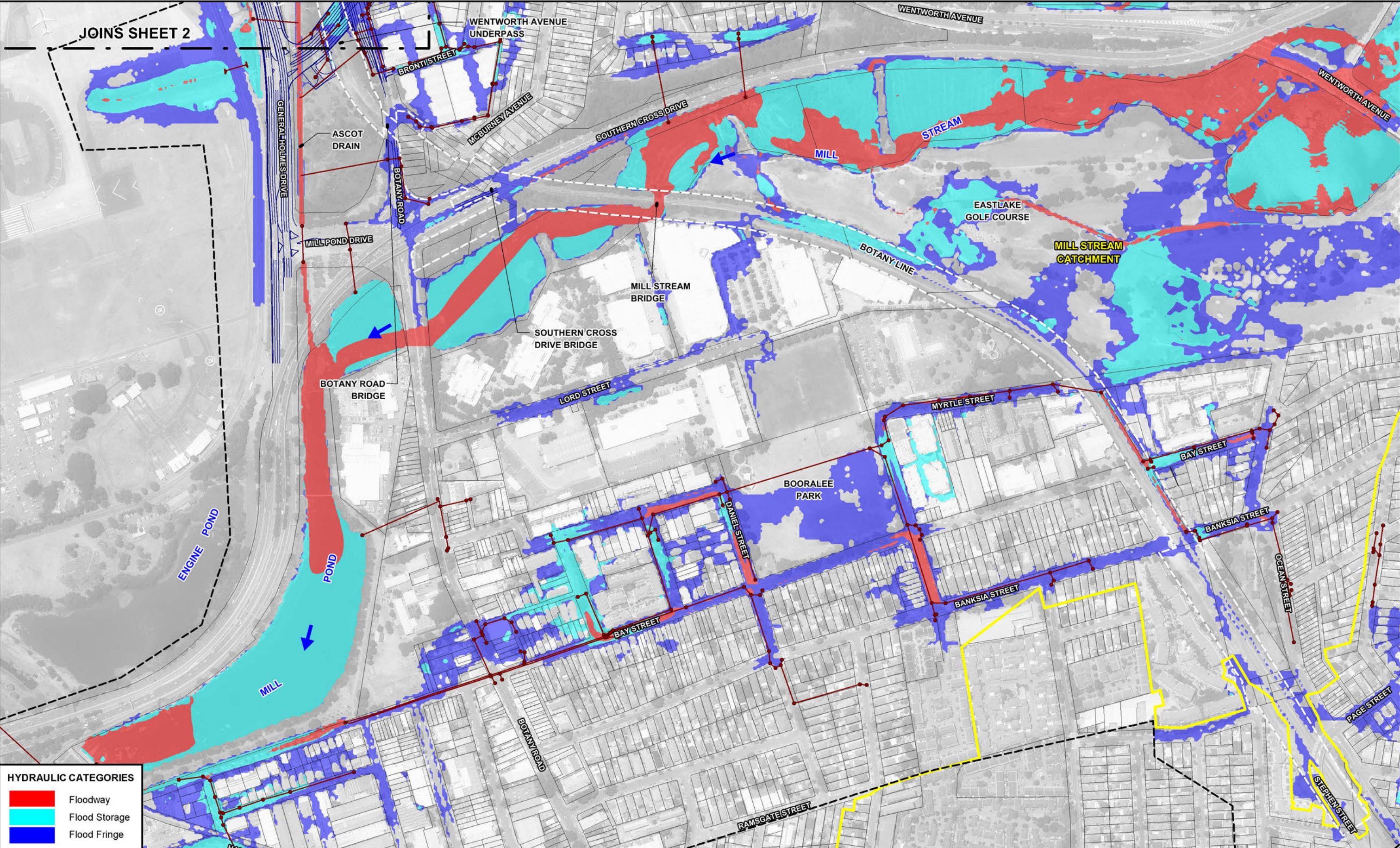
- LEGEND**
- Two-Dimensional Model Boundary
 - Catchment Boundary
 - Existing Drainage System
 - Project Footprint
 - Airport North and Airport East Road Works
 - Flood Planning Area

BOTANY RAIL DUPLICATION EIS
TECHNICAL WORKING PAPER: FLOODING
Figure B.6
(Sheet 3 of 3)
FLOOD PLANNING AREA
PRE-PROJECT CONDITIONS - 1% AEP EVENT





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HYDRAULIC CATEGORIES

- Floodway
- Flood Storage
- Flood Fringe

Scale: 1:5,000

50 0 50 100 150 m

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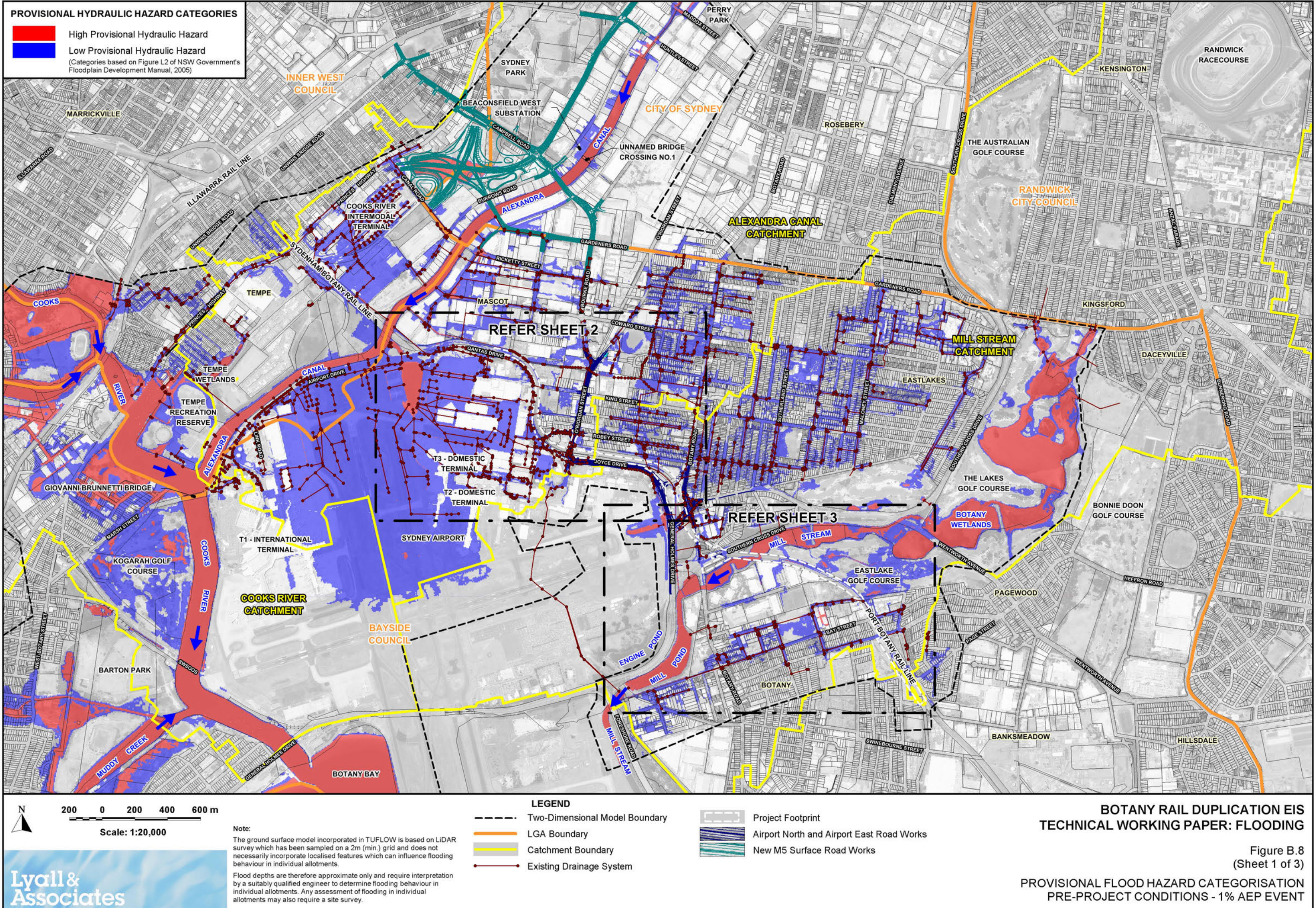
LEGEND

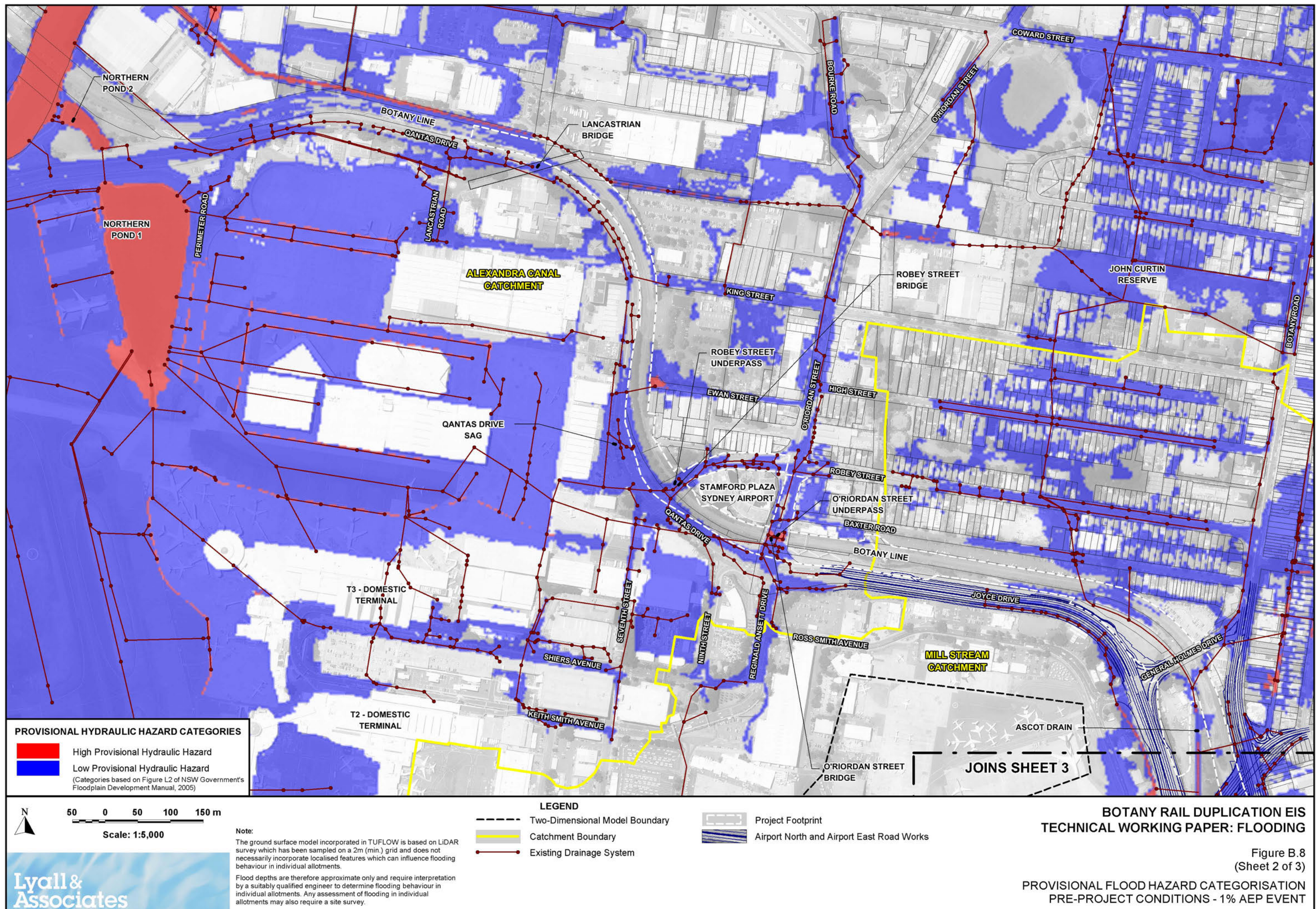
- Two-Dimensional Model Boundary
- Catchment Boundary
- Existing Drainage System
- Project Footprint
- Airport North and Airport East Road Works

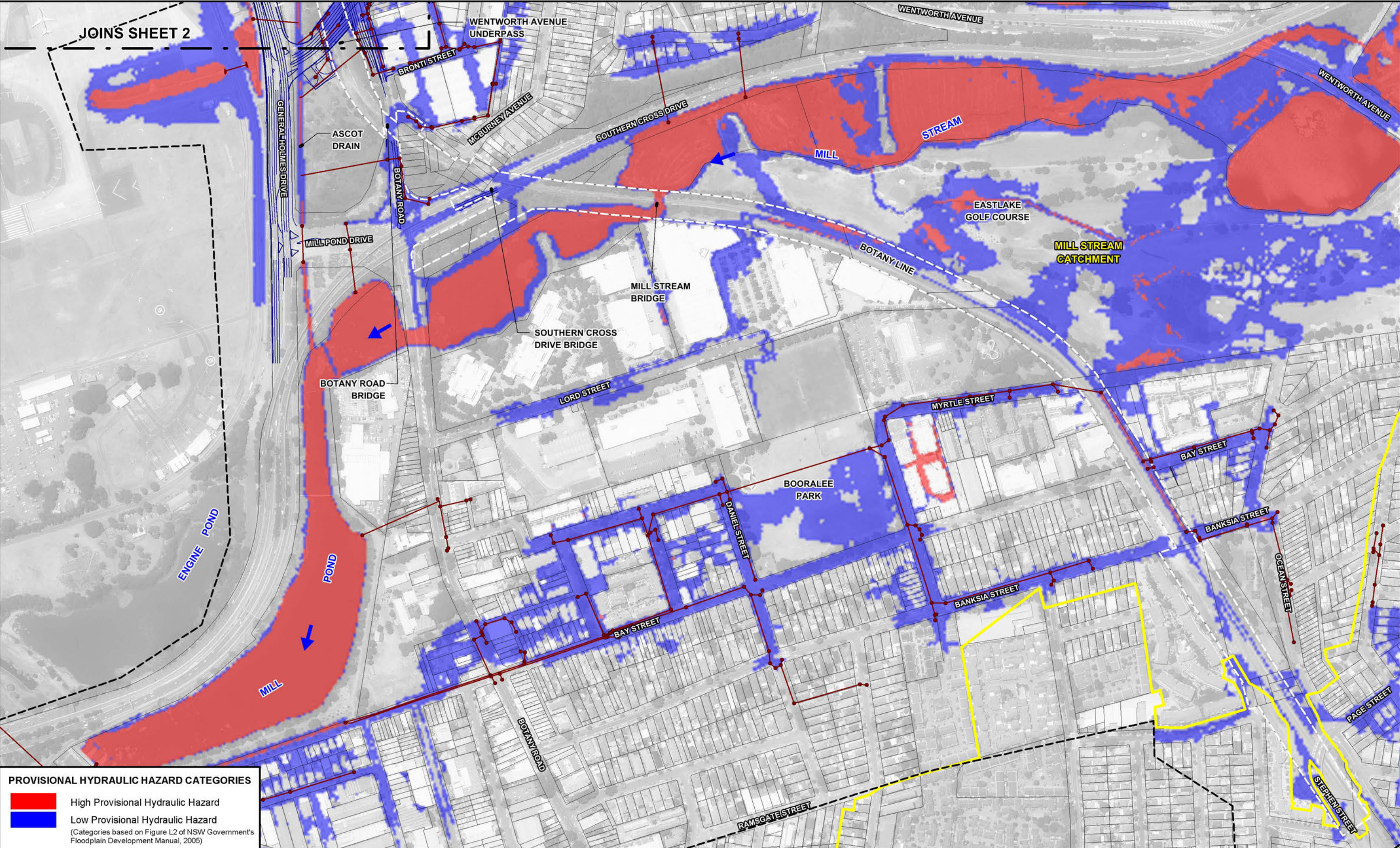
BOTANY RAIL DUPLICATION EIS
TECHNICAL WORKING PAPER: FLOODING

Figure B.7
(Sheet 3 of 3)

PRELIMINARY HYDRAULIC CATEGORISATION
PRE-PROJECT CONDITIONS - 1% AEP EVENT







PROVISIONAL HYDRAULIC HAZARD CATEGORIES

- High Provisional Hydraulic Hazard
 - Low Provisional Hydraulic Hazard
- (Categories based on Figure L2 of NSW Government's Floodplain Development Manual, 2005)

50 0 50 100 150 m
Scale: 1:5,000

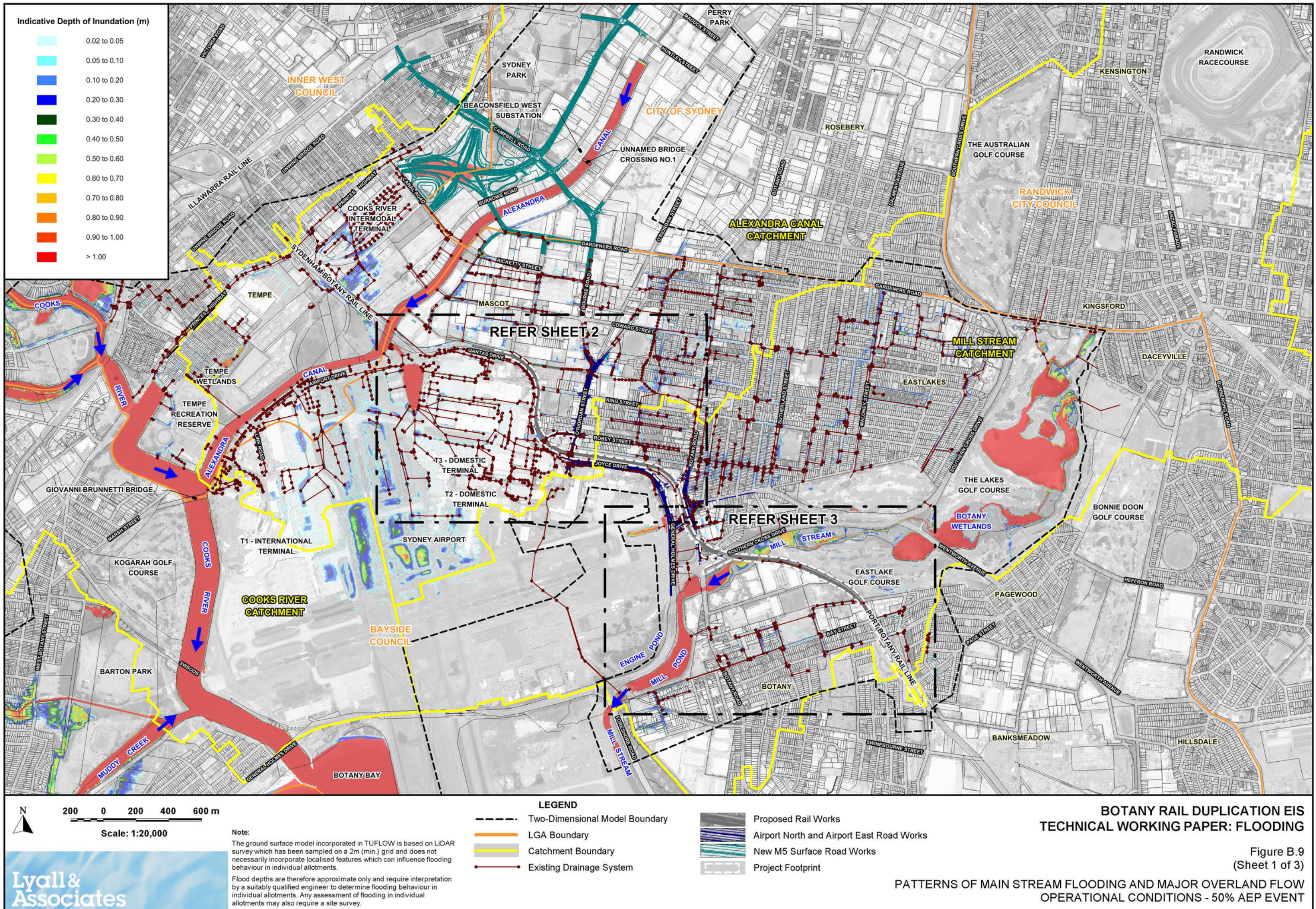
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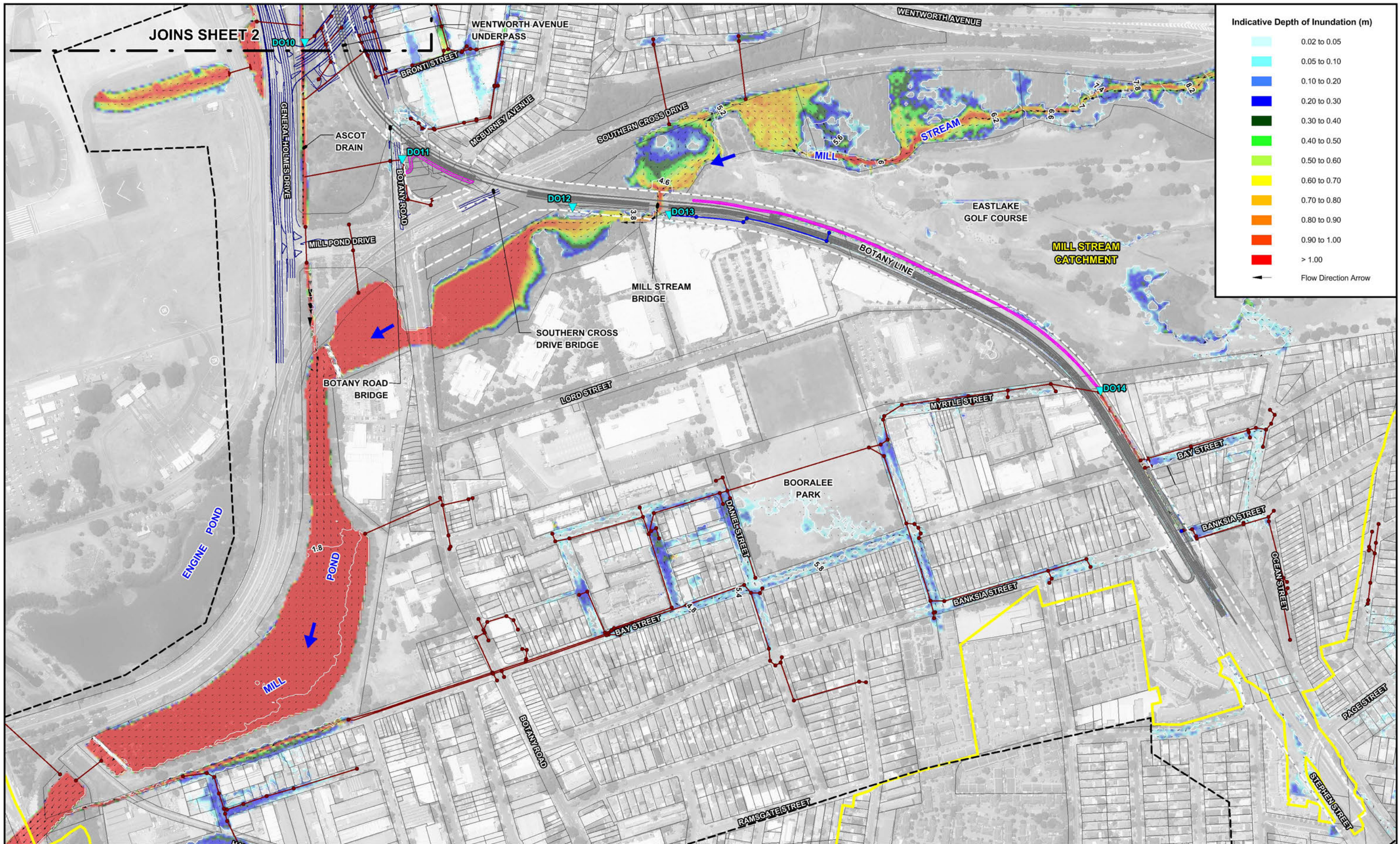
LEGEND

- Two-Dimensional Model Boundary
- Catchment Boundary
- Existing Drainage System
- Project Footprint
- Airport North and Airport East Road Works

**BOTANY RAIL DUPLICATION EIS
TECHNICAL WORKING PAPER: FLOODING**

Figure B.8
(Sheet 3 of 3)
PROVISIONAL FLOOD HAZARD CATEGORISATION
PRE-PROJECT CONDITIONS - 1% AEP EVENT





Scale: 1:5,000

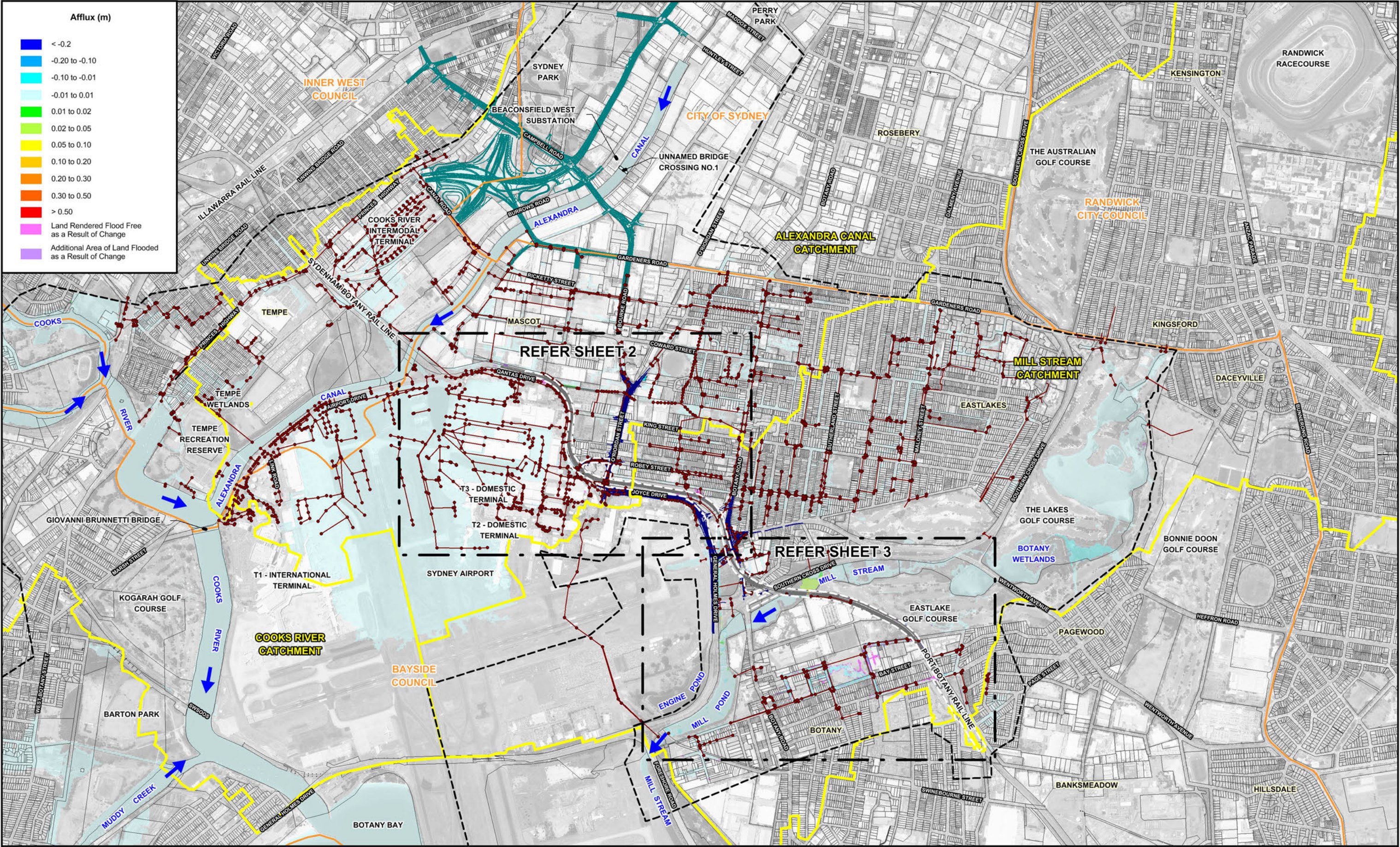
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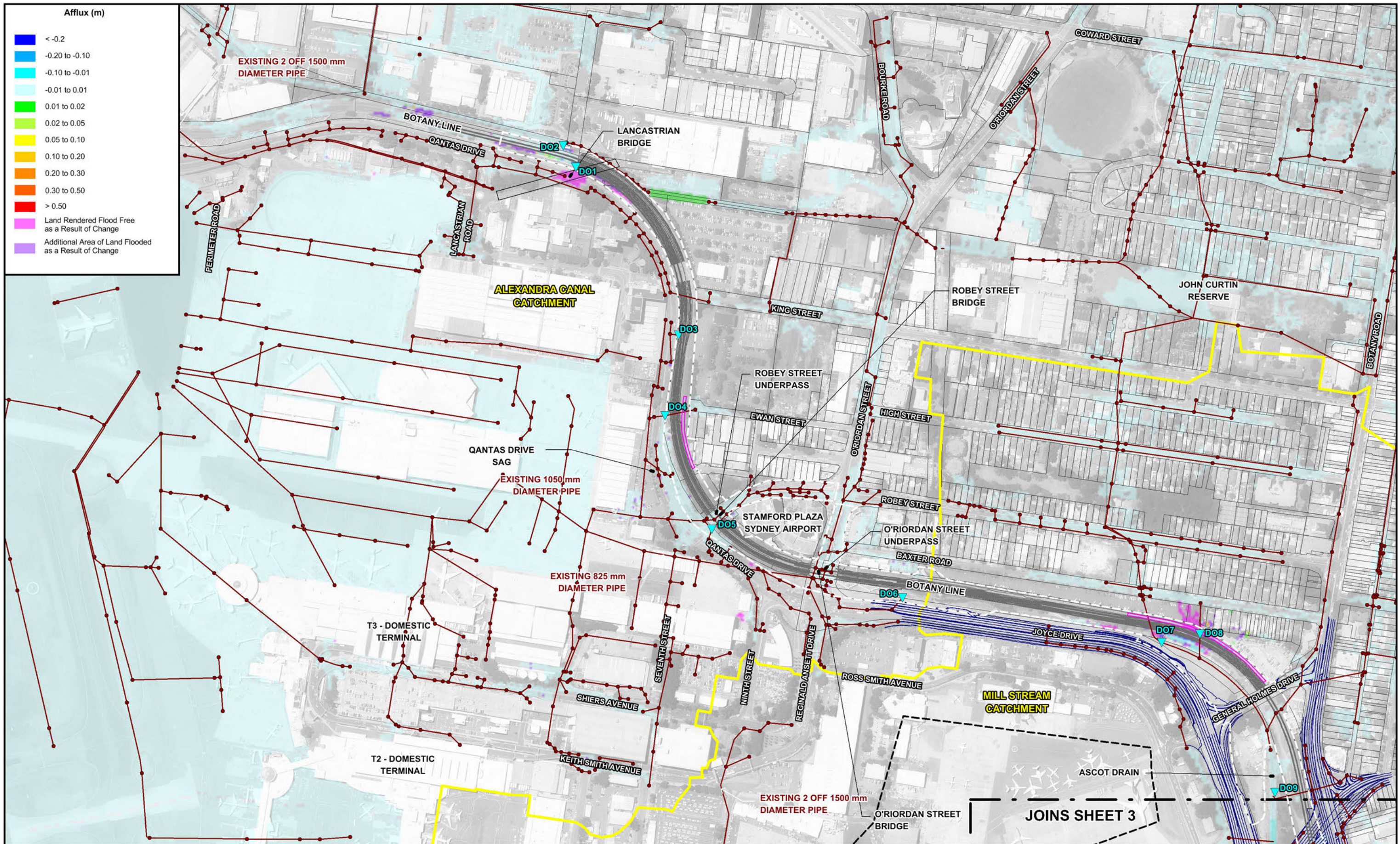
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BOTANY RAIL DUPLICATION EIS TECHNICAL WORKING PAPER: FLOODING

Figure B.9
(Sheet 3 of 3)

**PATTERNS OF MAIN STREAM FLOODING AND MAJOR OVERLAND FLOW
OPERATIONAL CONDITIONS - 50% AEP EVENT**

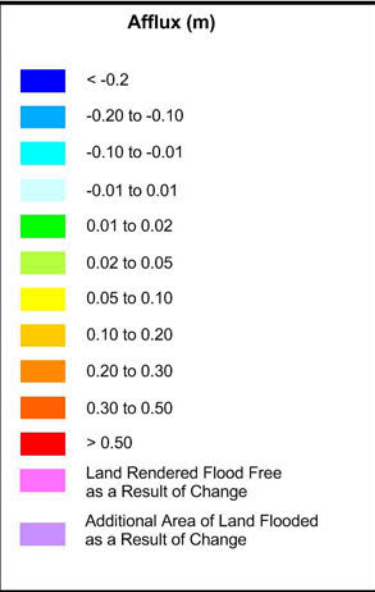
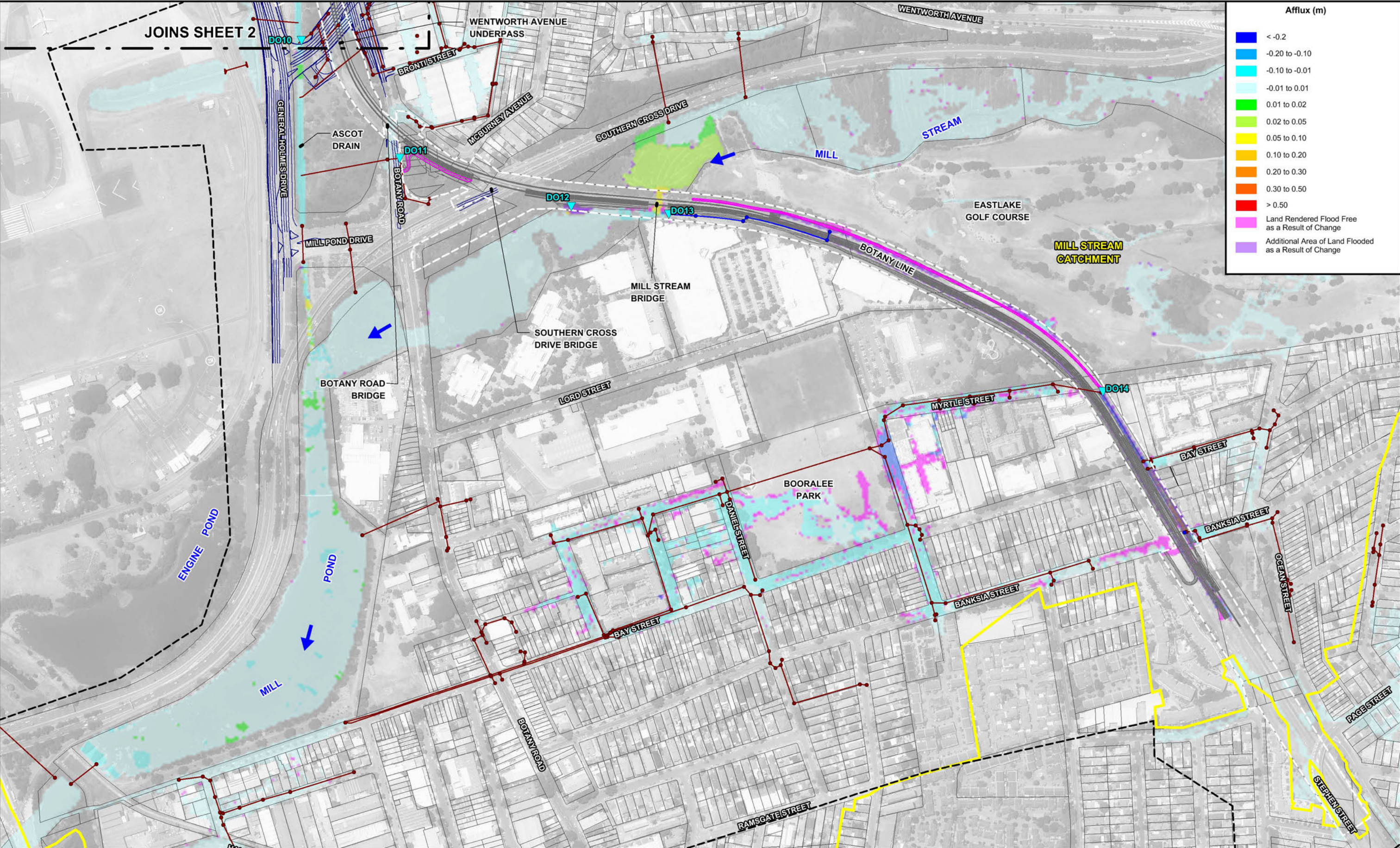




BOTANY RAIL DUPLICATION EIS **TECHNICAL WORKING PAPER: FLOODING**

Figure B.10
 (Sheet 2 of 3)

IMPACT OF PROJECT OPERATION ON FLOOD BEHAVIOUR
 50% AEP EVENT



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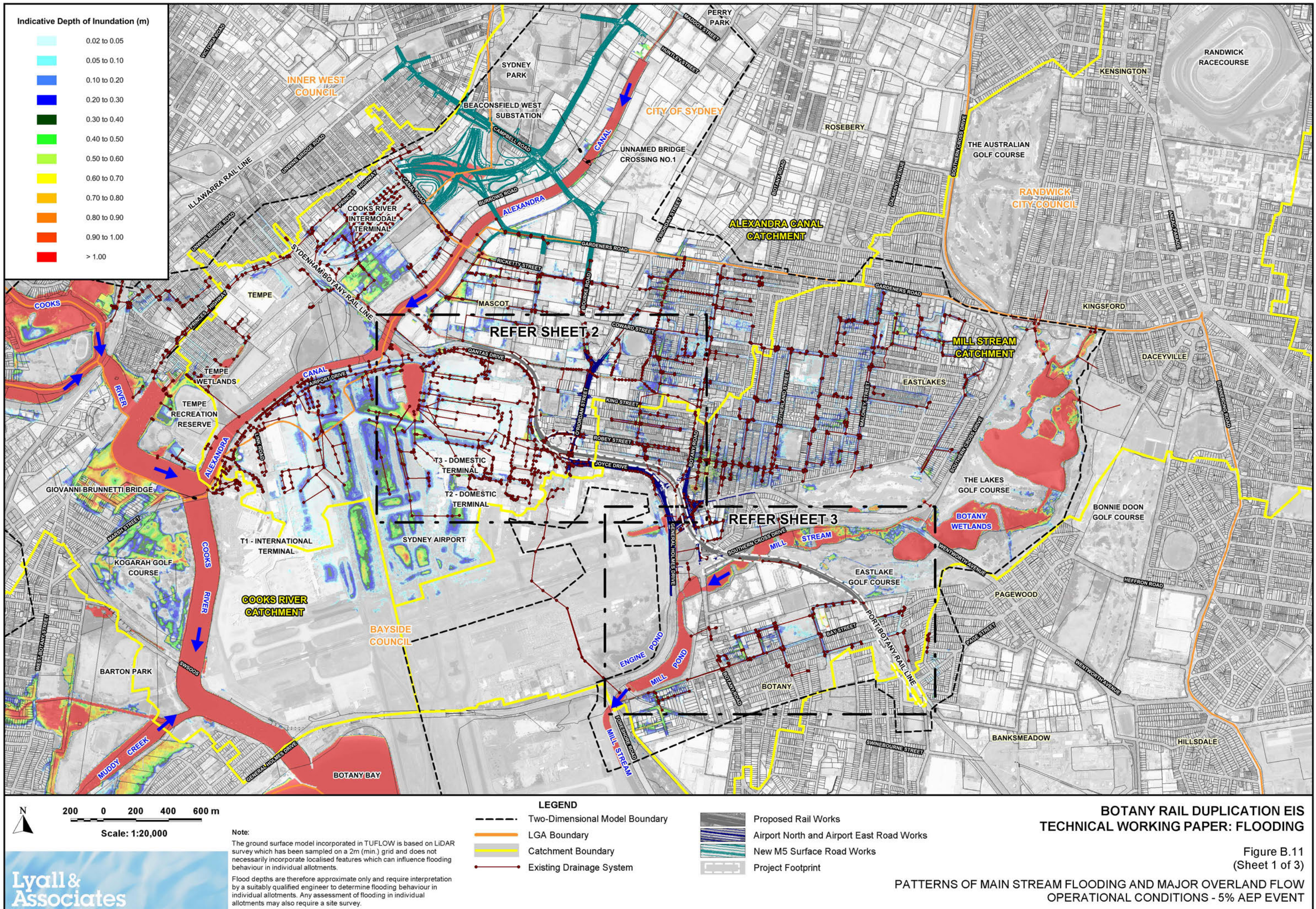
Lyall & Associates

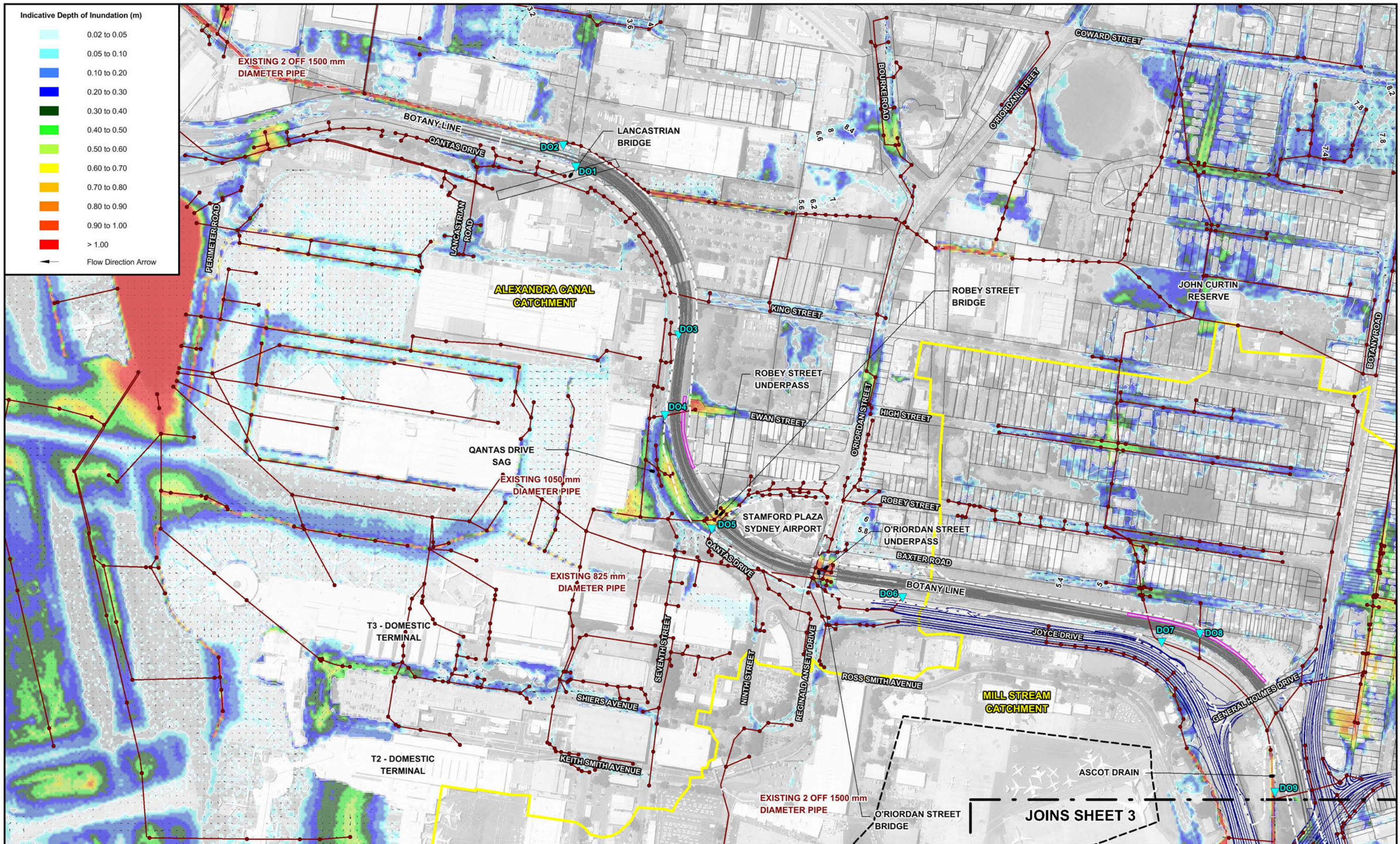
- LEGEND**
- Two-Dimensional Model Boundary
 - Catchment Boundary
 - Existing Drainage System to Remain
 - Proposed Drainage System

- Proposed Rail Works
- Airport North and Airport East Road Works
- Drainage Outlet Location and Identifier
- Proposed Corridor Access Road
- Project Footprint

**BOTANY RAIL DUPLICATION EIS
TECHNICAL WORKING PAPER: FLOODING**

Figure B.10
(Sheet 3 of 3)
IMPACT OF PROJECT OPERATION ON FLOOD BEHAVIOUR
50% AEP EVENT





50 0 50 100 150 m
Scale: 1:5,000

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LEGEND

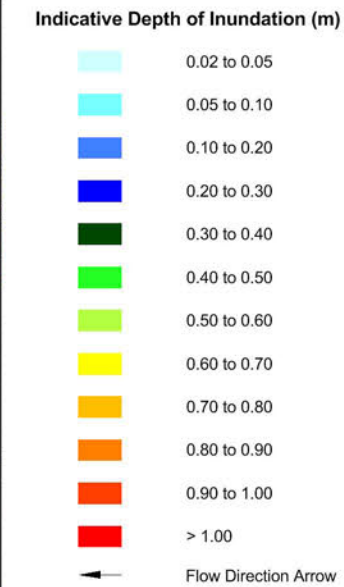
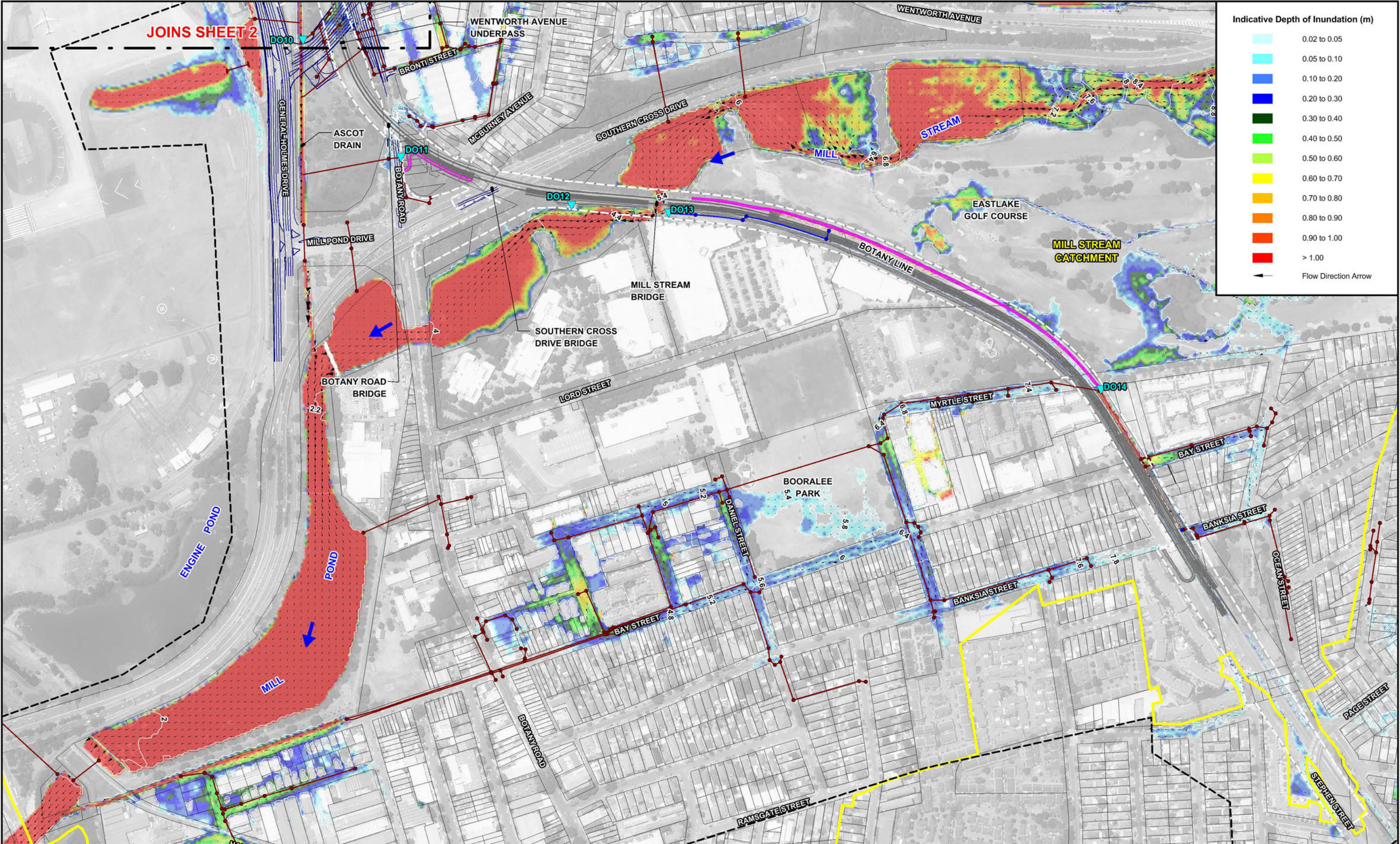
- Two-Dimensional Model Boundary
- Catchment Boundary
- Existing Drainage System to Remain
- Proposed Drainage System
- Drainage Outlet Location and Identifier

- Proposed Rail Works
- Airport North and Airport East Road Works
- Water Surface Elevation Contours
- Proposed Corridor Access Road
- Project Footprint

BOTANY RAIL DUPLICATION EIS TECHNICAL WORKING PAPER: FLOODING

Figure B.11
(Sheet 2 of 3)

PATTERNS OF MAIN STREAM FLOODING AND MAJOR OVERLAND FLOW
OPERATIONAL CONDITIONS - 5% AEP EVENT



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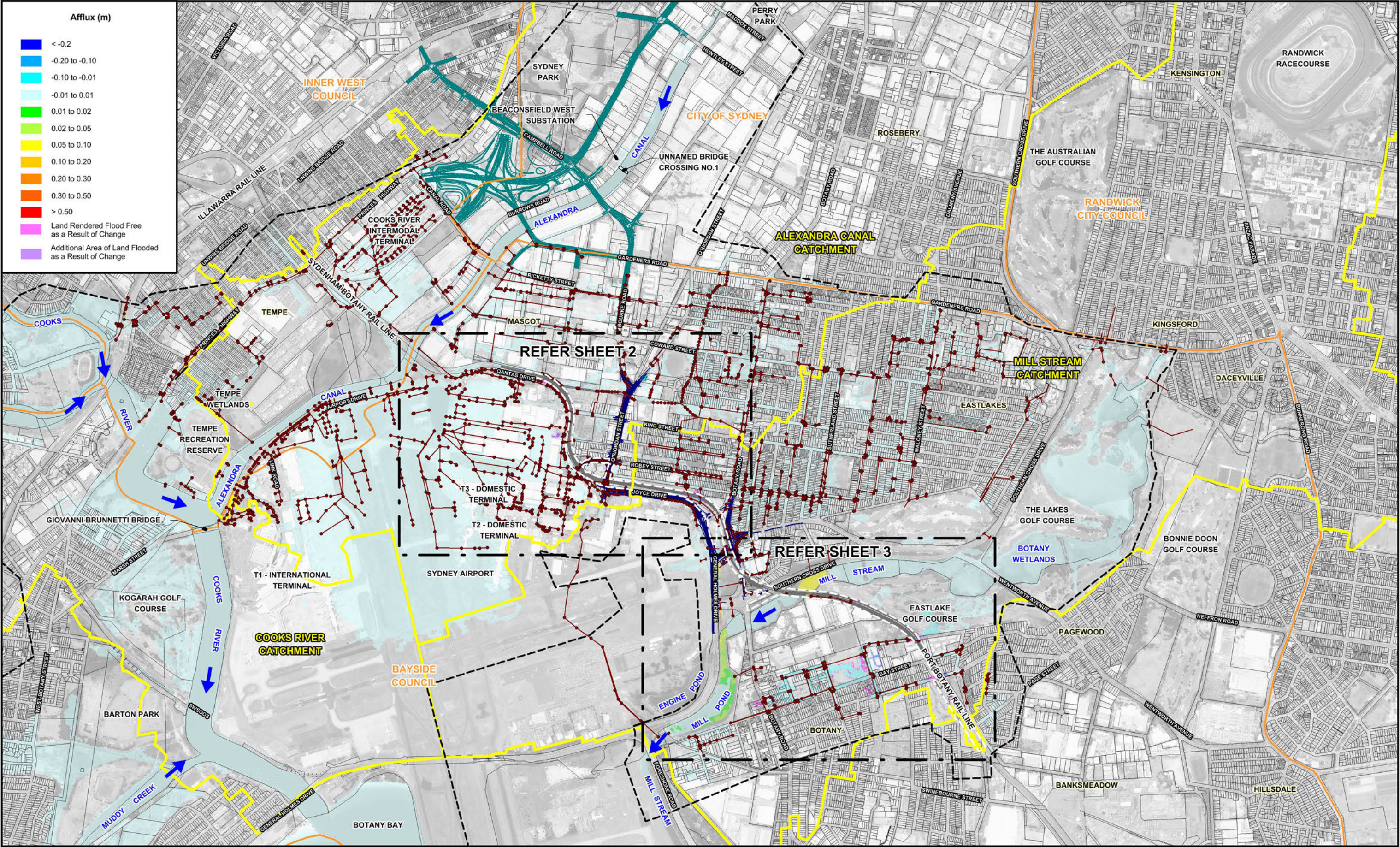
- LEGEND
- Two-Dimensional Model Boundary
 - Catchment Boundary
 - Existing Drainage System to Remain
 - Proposed Drainage System
 - Drainage Outlet Location and Identifier

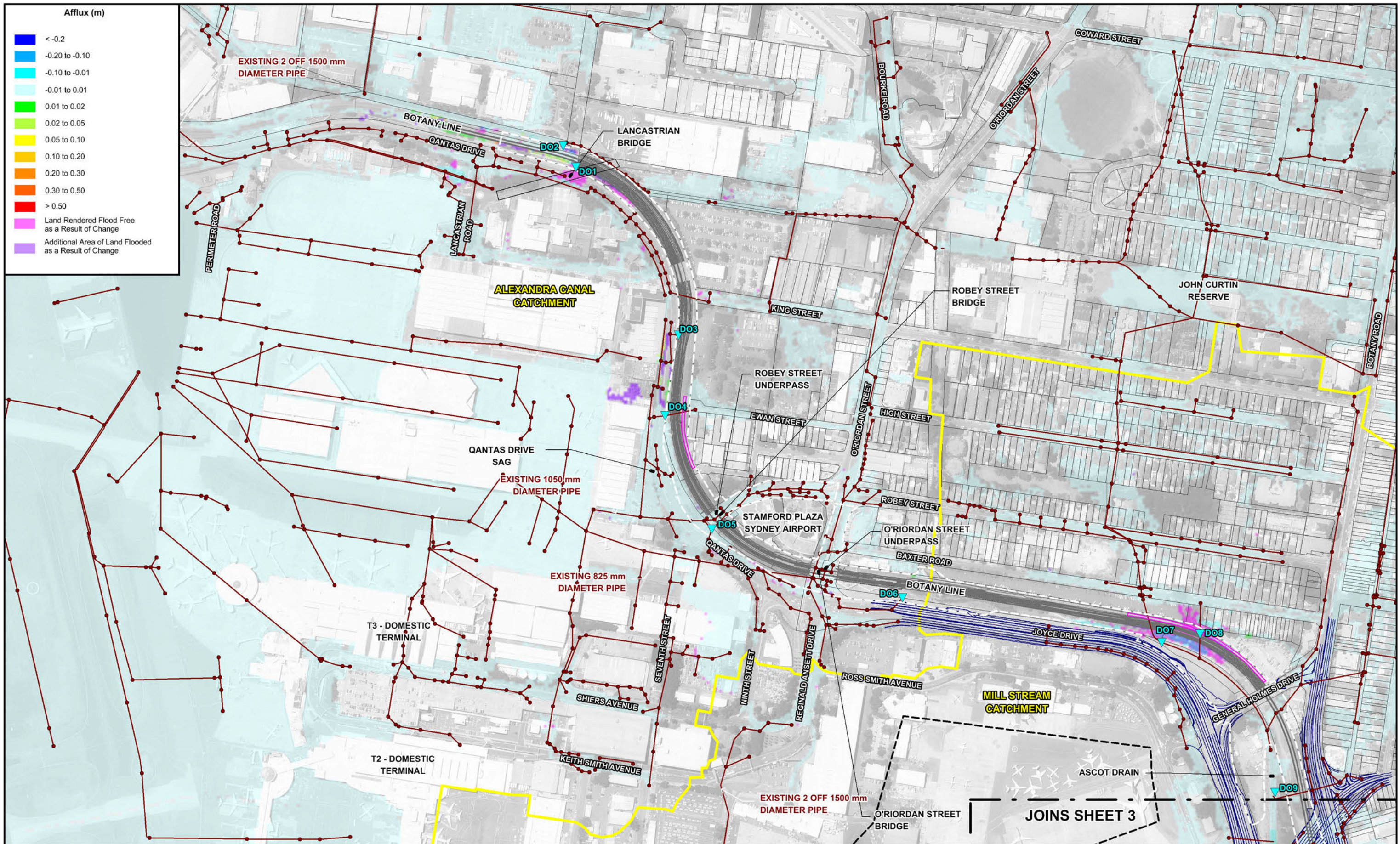
- Proposed Rail Works
- Airport North and Airport East Road Works
- Water Surface Elevation Contours
- Proposed Corridor Access Road
- Project Footprint

BOTANY RAIL DUPLICATION EIS
TECHNICAL WORKING PAPER: FLOODING

Figure B.11
(Sheet 3 of 3)

PATTERNS OF MAIN STREAM FLOODING AND MAJOR OVERLAND FLOW
OPERATIONAL CONDITIONS - 5% AEP EVENT





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- LEGEND**
- Two-Dimensional Model Boundary
 - Catchment Boundary
 - Existing Drainage System to Remain
 - Proposed Drainage System

- Proposed Rail Works
- Airport North and Airport East Road Works
- Drainage Outlet Location and Identifier
- Proposed Corridor Access Road
- Project Footprint

**BOTANY RAIL DUPLICATION EIS
TECHNICAL WORKING PAPER: FLOODING**

Figure B.12
(Sheet 2 of 3)

IMPACT OF PROJECT OPERATION ON FLOOD BEHAVIOUR
5% AEP EVENT