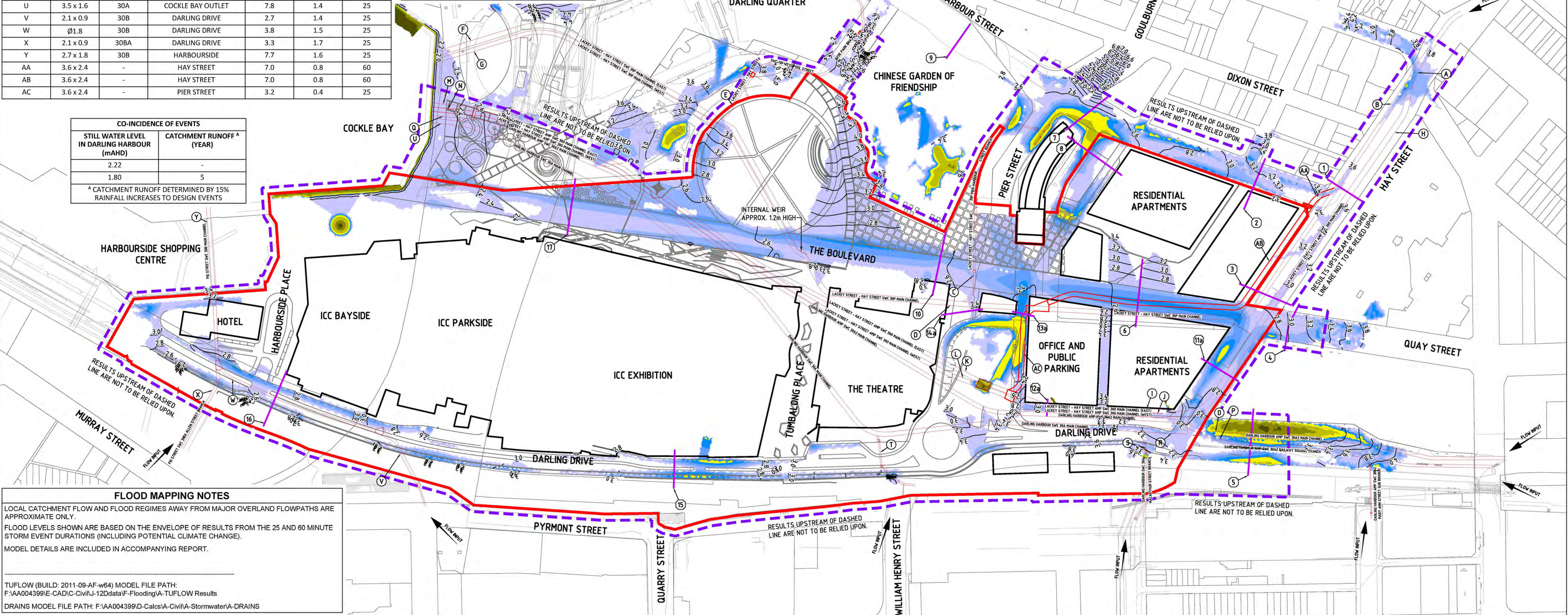


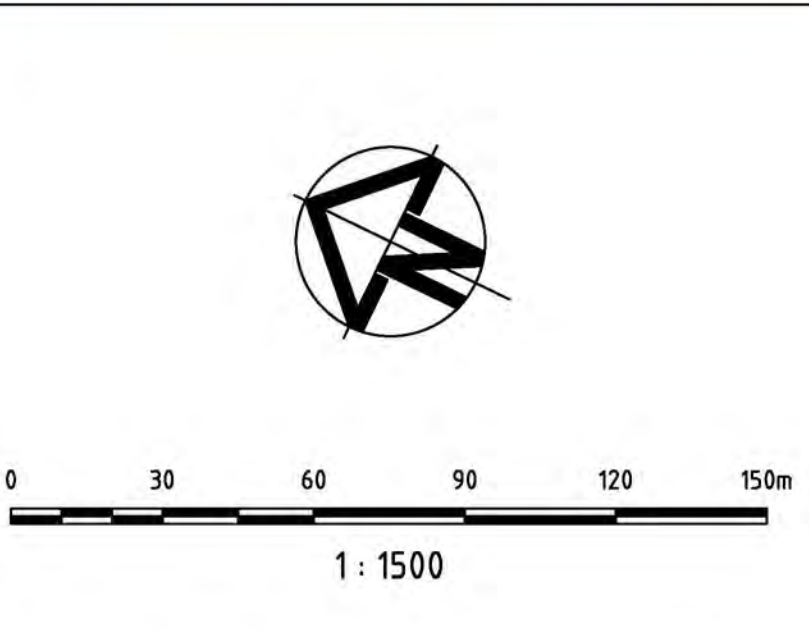
CONDUIT LABEL	CONDUIT DIMENSION (m)	SYDNEY WATER CHANNEL	LOCATION	Q (m³/s) ¹	V (m/s) ²	STORM DURATION (MIN)
A	3.6 x 2.1	300	HAY STREET	28.8	3.8	60
B	3.1 x 2.0	30P	HAY STREET	12.3	2.0	60
C	Ø1.5	30P	PIER STREET	1.7	0.9	60
D	3.7 x 2.2	30P	PIER STREET	12.5	1.5	60
E	1.5 x 1.5	30P	TUMBALONG PARK	4.3	2.2	25
F	3.9 x 2.2	30P	IMAX THEATRE	9.3	1.1	60
G	3.1 x 2.2	30P	IMAX THEATRE	7.9	1.2	60
H	4.3 x 2.4	300	HAY STREET	17.2	1.7	60
I	3.0 x 2.4	300	DARLING DRIVE (CARPARK)	8.7	1.2	60
J	3.0 x 2.4	300	DARLING DRIVE (CARPARK)	8.7	1.2	60
K	3.0 x 2.4	300	PIER STREET	9.8	1.4	60
L	3.0 x 2.4	300	PIER STREET	9.9	1.4	60
M	3.0 x 2.4	300	COCKLE BAY OUTLET	9.9	1.4	60
N	3.0 x 2.4	300	COCKLE BAY OUTLET	9.9	1.4	60
O	3.1 x 1.6	30A2	DARLING DRIVE	8.7	1.8	25
P	2.1 x 1.8	30A2	DARLING DRIVE	8.0	2.1	25
Q	3.0 x 2.4	30A2	COCKLE BAY OUTLET	13.8	1.9	25
R	3.1 x 1.6	30A	DARLING DRIVE	3.1	0.6	25
S	Ø0.9	30A	DARLING DRIVE	1.5	2.4	25
T	Ø1.1	30A	DARLING DRIVE	2.1	2.4	25
U	3.5 x 1.6	30A	COCKLE BAY OUTLET	7.8	1.4	25
V	2.1 x 0.9	30B	DARLING DRIVE	2.7	1.4	25
W	Ø1.8	30B	DARLING DRIVE	3.8	1.5	25
X	2.1 x 0.9	30BA	DARLING DRIVE	3.3	1.7	25
Y	2.7 x 1.8	30B	HARBOURSIDE	7.7	1.6	25
AA	3.6 x 2.4	-	HAY STREET	7.0	0.8	60
AB	3.6 x 2.4	-	HAY STREET	7.0	0.8	60
AC	3.6 x 2.4	-	PIER STREET	3.2	0.4	25

OVERLAND FLOW LABEL	LOCATION	Q (m³/s) ¹
1	HAY STREET	0.0
2	HARBOUR STREET	0.1
3	HAY STREET	0.0
4	QUAY STREET	0.7
5	DARLING DRIVE (SOUTH)	1.2
6	THE BOULEVARD	0.7
7	HARBOUR STREET	0.2
8	LITTLE PIER STREET	0.1
9	HARBOUR STREET	0.0
10	CHINESE GARDENS	0.5
11A	HAY STREET	0.2
12A	DARLING DRIVE	0.1
13A	PIER STREET	0.9
14A	PIER STREET	0.0
15	DARLING DRIVE	0.0
16	DARLING DRIVE (NORTH)	0.2
17	DARLING QUARTER	0.2

TABLE NOTES		
¹ FLOW IS PEAK FOR MODELLED DESIGN CONDITION		
² VELOCITY IS AT CORRESPONDING DESIGN FLOW		



DARLING HARBOUR LIVE



- NOTES:
- ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
 - ALL COORDINATES TO MGA. ALL LEVELS TO AHD.
 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS AND DRAWINGS.
 - PRECINCT BOUNDARIES ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE.

REV	DESCRIPTION	DATE
01	ISSUE FOR DEVELOPMENT APPLICATION	11/03/2013

CLIENT

Lend Lease

PROJECT MANAGEMENT & CONSTRUCTION
LEVEL 4, THE BOND, 30 HICKSON RD MILLERS POINT, NSW 2000

CIVIL / TRAFFIC / FACADES

HYDER CONSULTING PTY LTD
ABN 76 104 485 289
LEVEL 5, 141 WALKER ST,
NORTH SYDNEY NSW 2060
AUSTRALIA

Tel: +61 (0)2 8807 9000
Fax: +61 (0)2 8807 9001
www.hyderconsulting.com
© Copyright reserved

Hyder

PROJECT

**SICEEP
DARLING HARBOUR
PROJECT PRECINCT**

DRAWING TITLE

**5 YEAR ARI
PROPOSED DEVELOPMENT
FLOOD DEPTH AND LEVEL CONTOURS
INCLUDING POTENTIAL CLIMATE CHANGE**

STATUS

PRELIMINARY ONLY

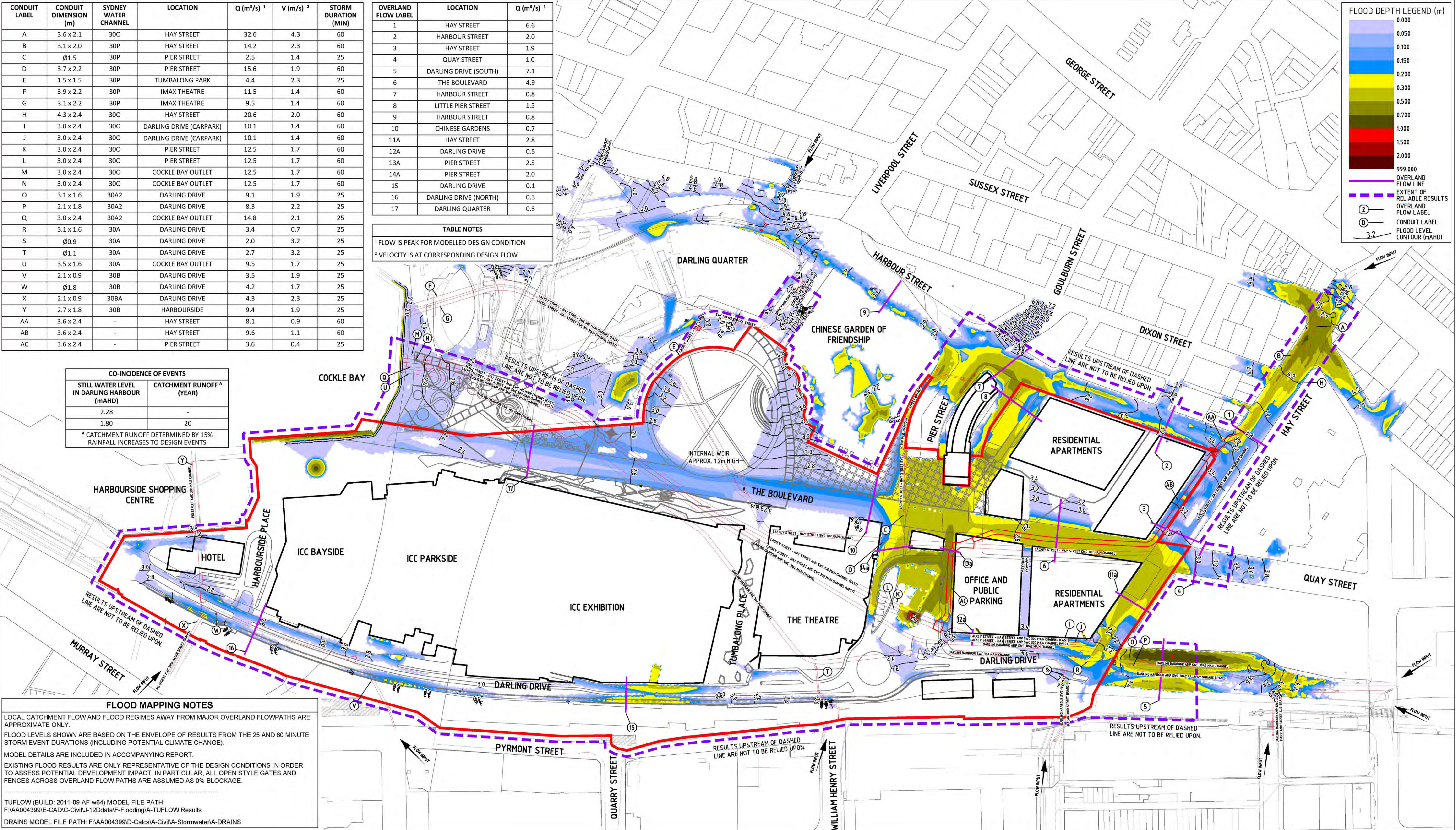
SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1:1500	RD	CM	BC	JH

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	WP-FL-0131	01

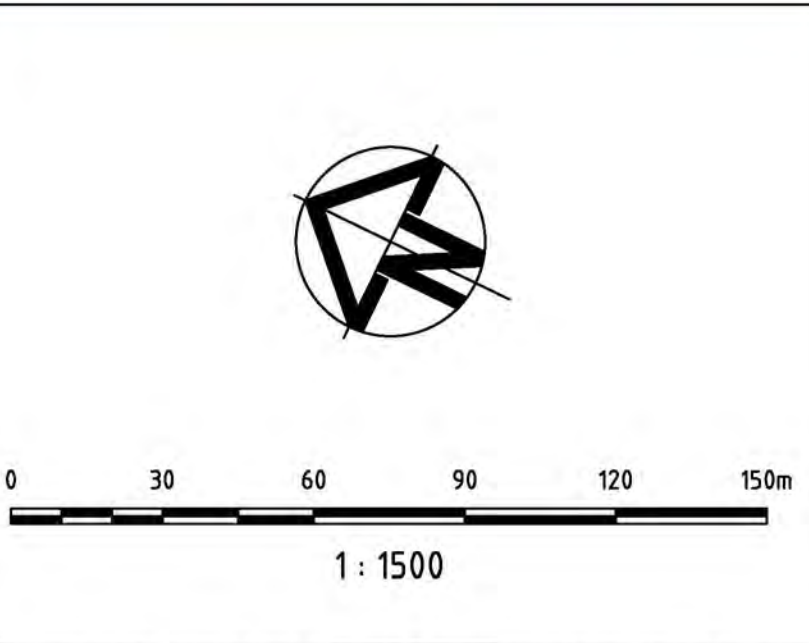
CONDUIT LABEL	CONDUIT DIMENSION (m)	SYDNEY WATER CHANNEL	LOCATION	Q (m³/s) ¹	V (m/s) ²	STORM DURATION (MIN)
A	3.6 x 2.1	300	HAY STREET	32.6	4.3	60
B	3.1 x 2.0	30P	HAY STREET	14.2	2.3	60
C	Ø1.5	30P	PIER STREET	2.5	1.4	25
D	3.7 x 2.2	30P	PIER STREET	15.6	1.9	60
E	1.5 x 1.5	30P	TUMBALONG PARK	4.4	2.3	25
F	3.9 x 2.2	30P	IMAX THEATRE	11.5	1.4	60
G	3.1 x 2.2	30P	IMAX THEATRE	9.5	1.4	60
H	4.3 x 2.4	300	HAY STREET	20.6	2.0	60
I	3.0 x 2.4	300	DARLING DRIVE (CARPARK)	10.1	1.4	60
J	3.0 x 2.4	300	DARLING DRIVE (CARPARK)	10.1	1.4	60
K	3.0 x 2.4	300	PIER STREET	12.5	1.7	60
L	3.0 x 2.4	300	PIER STREET	12.5	1.7	60
M	3.0 x 2.4	300	COCKLE BAY OUTLET	12.5	1.7	60
N	3.0 x 2.4	300	COCKLE BAY OUTLET	12.5	1.7	60
O	3.1 x 1.6	30A2	DARLING DRIVE	9.1	1.9	25
P	2.1 x 1.8	30A2	DARLING DRIVE	8.3	2.2	25
Q	3.0 x 2.4	30A2	COCKLE BAY OUTLET	14.8	2.1	25
R	3.1 x 1.6	30A	DARLING DRIVE	3.4	0.7	25
S	Ø0.9	30A	DARLING DRIVE	2.0	3.2	25
T	Ø1.1	30A	DARLING DRIVE	2.7	3.2	25
U	3.5 x 1.6	30A	COCKLE BAY OUTLET	9.5	1.7	25
V	2.1 x 0.9	30B	DARLING DRIVE	3.5	1.9	25
W	Ø1.8	30B	DARLING DRIVE	4.2	1.7	25
X	2.1 x 0.9	30BA	DARLING DRIVE	4.3	2.3	25
Y	2.7 x 1.8	30B	HARBOURSIDE	9.4	1.9	25
AA	3.6 x 2.4	-	HAY STREET	8.1	0.9	60
AB	3.6 x 2.4	-	HAY STREET	9.6	1.1	60
AC	3.6 x 2.4	-	PIER STREET	3.6	0.4	25

OVERLAND FLOW LABEL	LOCATION	Q (m³/s) ¹
1	HAY STREET	6.6
2	HARBOUR STREET	2.0
3	HAY STREET	1.9
4	QUAY STREET	1.0
5	DARLING DRIVE (SOUTH)	7.1
6	THE BOULEVARD	4.9
7	HARBOUR STREET	0.8
8	LITTLE PIER STREET	1.5
9	HARBOUR STREET	0.8
10	CHINESE GARDENS	0.7
11A	HAY STREET	2.8
12A	DARLING DRIVE	0.5
13A	PIER STREET	2.5
14A	PIER STREET	2.0
15	DARLING DRIVE	0.1
16	DARLING DRIVE (NORTH)	0.3
17	DARLING QUARTER	0.3

TABLE NOTES		
¹ FLOW IS PEAK FOR MODELLED DESIGN CONDITION		
² VELOCITY IS AT CORRESPONDING DESIGN FLOW		



DARLING HARBOUR LIVE



- NOTES:
- ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
 - ALL COORDINATES TO MGA. ALL LEVELS TO AHD.
 - THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS AND DRAWINGS.
 - PRECINCT BOUNDARIES ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE.

REV	DESCRIPTION	DATE
01	ISSUE FOR DEVELOPMENT APPLICATION	11/03/2013

CLIENT



PROJECT MANAGEMENT & CONSTRUCTION
LEVEL 4, THE BOND, 30 HICKSON RD MILLERS POINT, NSW 2000

CIVIL / TRAFFIC / FACADES
HYDER CONSULTING PTY LTD
ABN 76 104 485 289
LEVEL 5, 141 WALKER ST,
NORTH SYDNEY NSW 2060
AUSTRALIA
Tel: +61 (0)2 8807 9000
Fax: +61 (0)2 8807 9001
www.hyderconsulting.com
© Copyright reserved



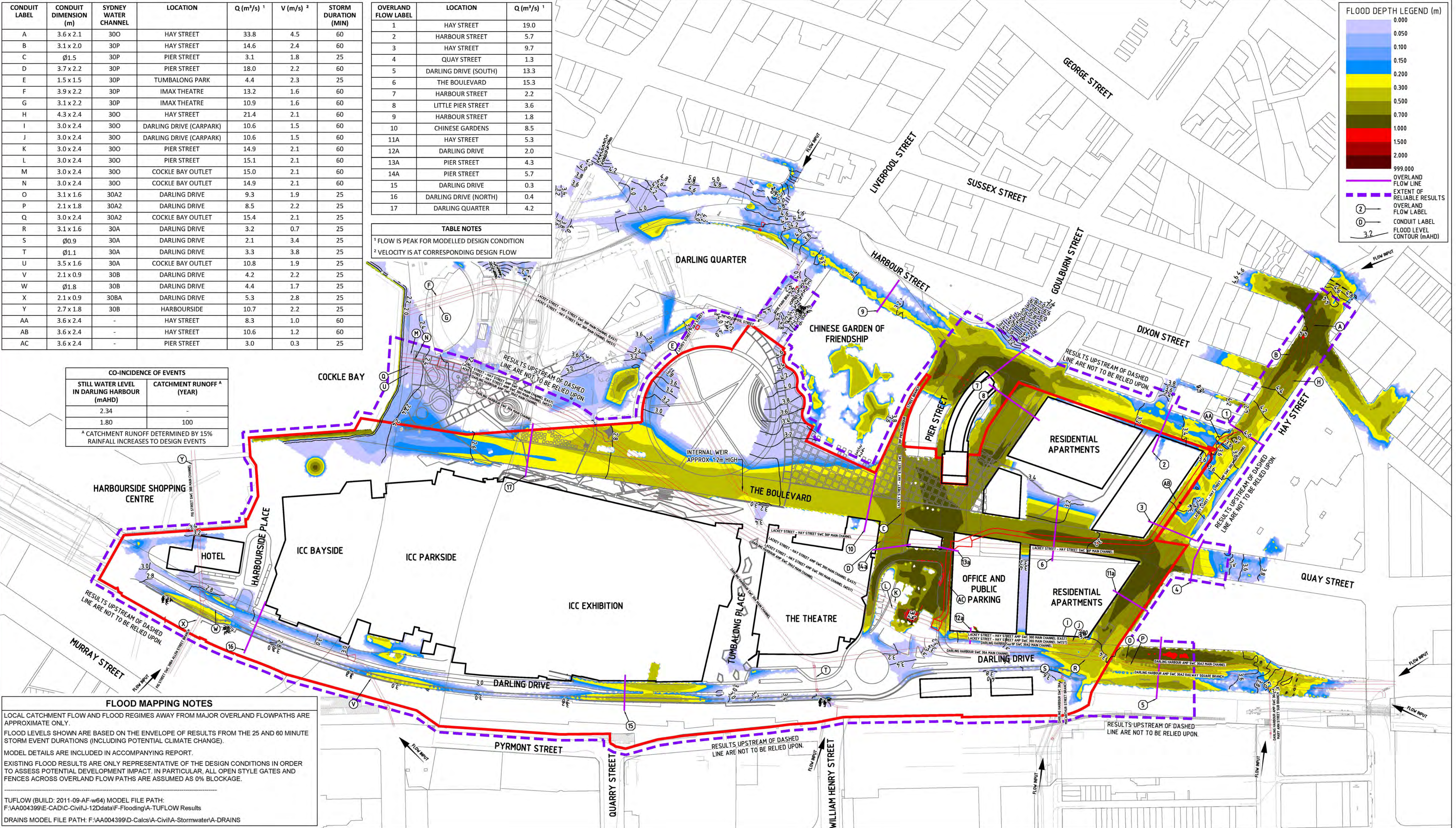
PROJECT
SICEEP
DARLING HARBOUR
PROJECT PRECINCT

DRAWING TITLE				
20 YEAR ARI PROPOSED DEVELOPMENT FLOOD DEPTH AND LEVEL CONTOURS INCLUDING POTENTIAL CLIMATE CHANGE				
STATUS PRELIMINARY ONLY				
SCALE @ A1 1:1500	DRAWN RD	DESIGNED CM	REVIEWED BC	APPROVED JH
PROJECT NUMBER AA004399	DRAWING NUMBER WP-FL-0132	REV 01		

CONDUIT LABEL	CONDUIT DIMENSION (m)	SYDNEY WATER CHANNEL	LOCATION	Q (m³/s) ¹	V (m/s) ²	STORM DURATION (MIN)
A	3.6 x 2.1	300	HAY STREET	33.8	4.5	60
B	3.1 x 2.0	30P	HAY STREET	14.6	2.4	60
C	Ø1.5	30P	PIER STREET	3.1	1.8	25
D	3.7 x 2.2	30P	PIER STREET	18.0	2.2	60
E	1.5 x 1.5	30P	TUMBALONG PARK	4.4	2.3	25
F	3.9 x 2.2	30P	IMAX THEATRE	13.2	1.6	60
G	3.1 x 2.2	30P	IMAX THEATRE	10.9	1.6	60
H	4.3 x 2.4	300	HAY STREET	21.4	2.1	60
I	3.0 x 2.4	300	DARLING DRIVE (CARPARK)	10.6	1.5	60
J	3.0 x 2.4	300	DARLING DRIVE (CARPARK)	10.6	1.5	60
K	3.0 x 2.4	300	PIER STREET	14.9	2.1	60
L	3.0 x 2.4	300	PIER STREET	15.1	2.1	60
M	3.0 x 2.4	300	COCKLE BAY OUTLET	15.0	2.1	60
N	3.0 x 2.4	300	COCKLE BAY OUTLET	14.9	2.1	60
O	3.1 x 1.6	30A2	DARLING DRIVE	9.3	1.9	25
P	2.1 x 1.8	30A2	DARLING DRIVE	8.5	2.2	25
Q	3.0 x 2.4	30A2	COCKLE BAY OUTLET	15.4	2.1	25
R	3.1 x 1.6	30A	DARLING DRIVE	3.2	0.7	25
S	Ø0.9	30A	DARLING DRIVE	2.1	3.4	25
T	Ø1.1	30A	DARLING DRIVE	3.3	3.8	25
U	3.5 x 1.6	30A	COCKLE BAY OUTLET	10.8	1.9	25
V	2.1 x 0.9	30B	DARLING DRIVE	4.2	2.2	25
W	Ø1.8	30B	DARLING DRIVE	4.4	1.7	25
X	2.1 x 0.9	30BA	DARLING DRIVE	5.3	2.8	25
Y	2.7 x 1.8	30B	HARBOURSIDE	10.7	2.2	25
AA	3.6 x 2.4	-	HAY STREET	8.3	1.0	60
AB	3.6 x 2.4	-	HAY STREET	10.6	1.2	60
AC	3.6 x 2.4	-	PIER STREET	3.0	0.3	25

OVERLAND FLOW LABEL	LOCATION	Q (m³/s) ¹
1	HAY STREET	19.0
2	HARBOUR STREET	5.7
3	HAY STREET	9.7
4	QUAY STREET	1.3
5	DARLING DRIVE (SOUTH)	13.3
6	THE BOULEVARD	15.3
7	HARBOUR STREET	2.2
8	LITTLE PIER STREET	3.6
9	HARBOUR STREET	1.8
10	CHINESE GARDENS	8.5
11A	HAY STREET	5.3
12A	DARLING DRIVE	2.0
13A	PIER STREET	4.3
14A	PIER STREET	5.7
15	DARLING DRIVE	0.3
16	DARLING DRIVE (NORTH)	0.4
17	DARLING QUARTER	4.2

TABLE NOTES		
¹ FLOW IS PEAK FOR MODELLED DESIGN CONDITION		
² VELOCITY IS AT CORRESPONDING DESIGN FLOW		



FLOOD MAPPING NOTES

LOCAL CATCHMENT FLOW AND FLOOD REGIMES AWAY FROM MAJOR OVERLAND FLOWPATHS ARE APPROXIMATE ONLY.

FLOOD LEVELS SHOWN ARE BASED ON THE ENVELOPE OF RESULTS FROM THE 25 AND 60 MINUTE STORM EVENT DURATIONS (INCLUDING POTENTIAL CLIMATE CHANGE).

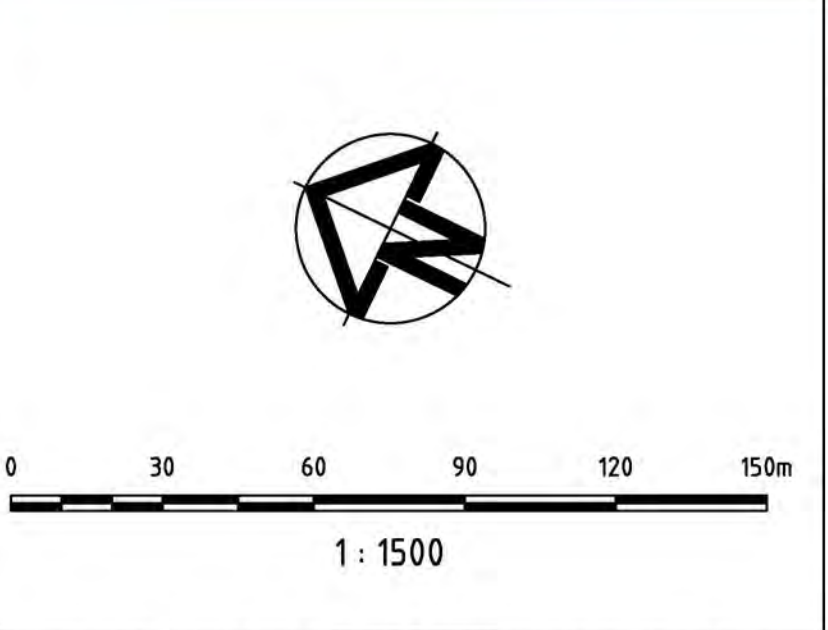
MODEL DETAILS ARE INCLUDED IN ACCOMPANYING REPORT.

EXISTING FLOOD RESULTS ARE ONLY REPRESENTATIVE OF THE DESIGN CONDITIONS IN ORDER TO ASSESS POTENTIAL DEVELOPMENT IMPACT. IN PARTICULAR, ALL OPEN STYLE GATES AND FENCES ACROSS OVERLAND FLOW PATHS ARE ASSUMED AS 0% BLOCKAGE.

TUFLOW (BUILD: 2011-09-AF-w64) MODEL FILE PATH: F:\AA004399\I-CAD\Civil\J-12\data\F-Flooding\A-TUFLOW Results

DRAINS MODEL FILE PATH: F:\AA004399\I-CAD\Civil\A-Stormwater\A-DRAINS

DARLING HARBOUR LIVE



NOTES:

- ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
- ALL COORDINATES TO MGA. ALL LEVELS TO AHD.
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS AND DRAWINGS.
- PRECINCT BOUNDARIES ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE.

REV	DESCRIPTION	DATE
01	ISSUE FOR DEVELOPMENT APPLICATION	11/03/2013

CLIENT

Lend Lease

PROJECT MANAGEMENT & CONSTRUCTION
LEVEL 4, THE BOND, 30 HICKSON RD MILLERS POINT, NSW 2000

CIVIL / TRAFFIC / FACADES

HYDER CONSULTING PTY LTD
ABN 76 104 485 289
LEVEL 5, 141 WALKER ST,
NORTH SYDNEY NSW 2060
AUSTRALIA

Tel: +61 (0)2 8907 9000
Fax: +61 (0)2 8907 9001
www.hyderconsulting.com
© Copyright reserved

Hyder

PROJECT

**SICEEP
DARLING HARBOUR
PROJECT PRECINCT**

DRAWING TITLE

**100 YEAR ARI
PROPOSED DEVELOPMENT
FLOOD DEPTH AND LEVEL CONTOURS
INCLUDING POTENTIAL CLIMATE CHANGE**

STATUS

PRELIMINARY ONLY

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1:1500	RD	CM	BC	JH

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	WP-FL-0133	01