

KEY

North Plot + The Square DA Boundary

Darling Square (DS) Boundary

➡ Minimum 2.5m wide pedestrian walkway

➡ Minimum 2m wide pedestrian walkway

III Accessible stair

➡ Step ramp

● Walkway 1:21 grade

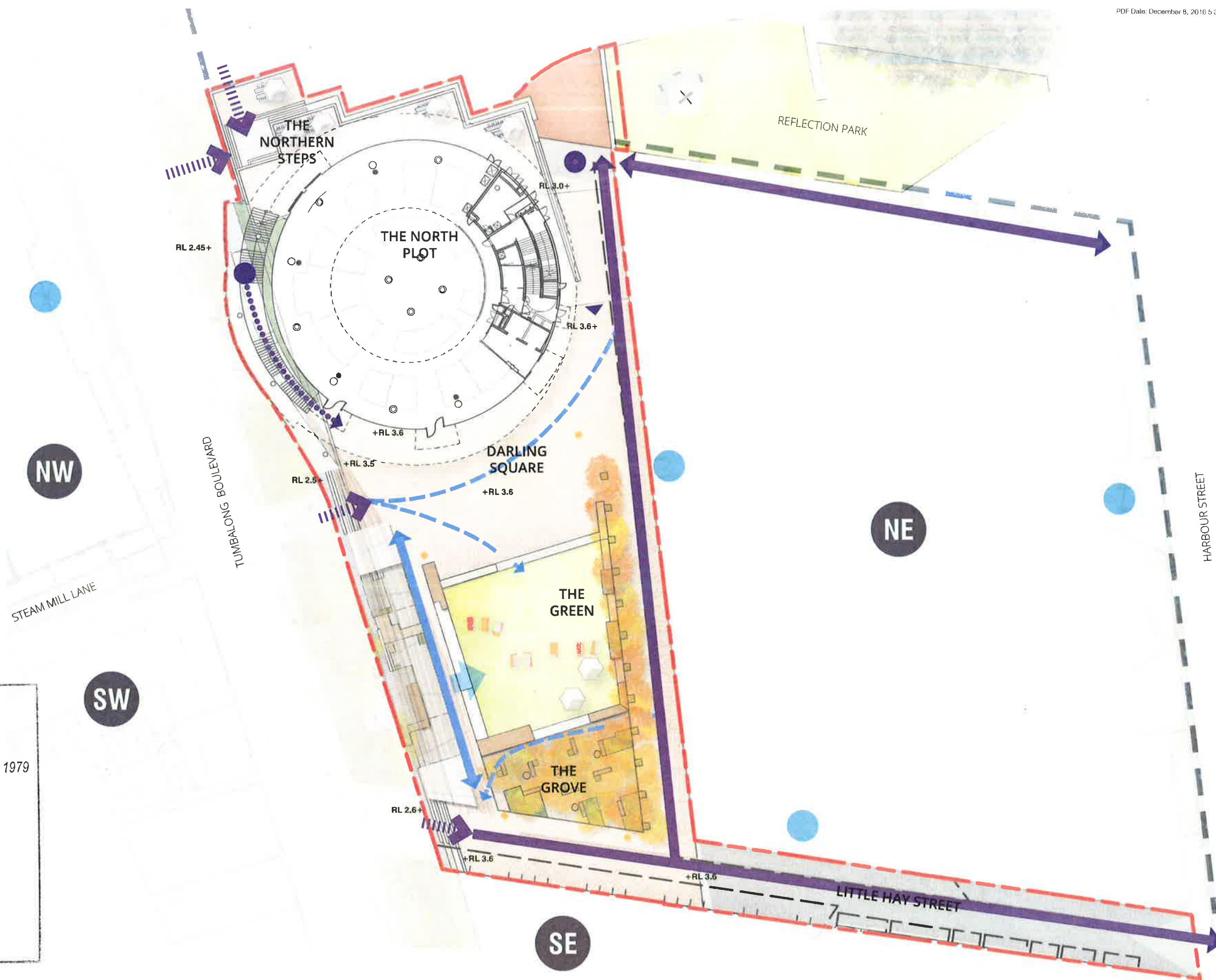
➡ Flexible circulation

+RL 3.5 Proposed levels

● Building Lobby Locations

NOTE: LEVELS ARE INDICATIVE & SUBJECT TO DESIGN DEVELOPEMENT

PDF Date: December 8, 2016 5:36 PM



NSW GOVERNMENT
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 7021

granted on the 18 May 2017

Signed [Signature]

Sheet No. 31 of 55

Darling Square, SSDA10 (RTS)
ASPECT Studios™

**NORTH PLOT AND DARLING SQUARE
ACCESS AND LEVELS**

Client: **Lendlease**

lendlease

Drawn: **LB/RD**
Checked: **LN/SC/LP**

Scale: **1:250 @ A1**
Date: **1:500 @ A3**
November 2016

0 5 10 15 20m



Dwg no: **14076-SSDA10(RTS)-10**
Rev: **A**

KEY

North Plot + The Square DA Boundary
Darling Square (DS) Boundary

NOTE: SPECIES SELECTION SUBJECT TO AVAILABILITY

Botanic Name	Common Name	Estimated pot size	Native/ Exotic
New planting trellising up the Canopy structure			
<i>Bougainvillea glabra</i>	Bougainvillea	200mm	exotic
<i>Pandorea jasminoides</i>	Bower of Beauty	200mm	Native
<i>Pandorea pandorana</i>	Wonga Wonga Vine	200mm	Native



Botanic Name	Common Name	Area (m²)	Native/ Exotic
New Turf			
<i>Pennisetum clandestinum</i>	Kikuyu village green	446	exotic

Botanic Name	Common Name	Quantity	Estimated Pot Size	Native/ Exotic
New Trees				
<i>Zeakova serrata</i>	japanese Elm	21	800L	exotic
Low shrubs and groundcovers				
<i>Alternanthera dentata</i>	Ruby Leaf Alternanthera		300mm	exotic
<i>Convolvulus cneorum</i>	Silverbush		200mm	exotic
<i>Dichondra 'Silver Falls'</i>	Silver Falls		200mm	exotic
<i>Ozothamnus diosmifolius</i>	Rice Flower		200mm	native
<i>Lomandra 'Tanika'</i>	Spiny Headed Mat Rush		300mm	native
<i>Loropetalum chinense</i>	Chinese Fringe Flower		300mm	exotic
<i>Poa labillardierei</i>	Tussock Grass		200mm	native



Botanic Name	Common Name	Estimated Pot Size	Native/ Exotic
Low Shrubs and Groundcovers			
<i>Acanthus mollis</i>	Bears Breeches	200mm	exotic
<i>Alpinia caerulea</i>	Native Ginger	300mm	native
<i>Viola hederacea</i>	Native Violet	200mm	native
<i>Cissus antarctica</i>	Kangaroo vine	200mm	native
<i>Calathea zebrina</i>	Zebra Plant	300mm	exotic
<i>Arthropodium cirratum</i>	New Zealand Rock Lily	300mm	exotic
<i>Pachysandra terminalis</i>	Japanese pachysandra	200mm	exotic
<i>Sansevieria infasciata</i>	Mothers in Laws Tongue	200mm	exotic
<i>Helichrysum petiolare</i>	Silver Bush	200mm	exotic



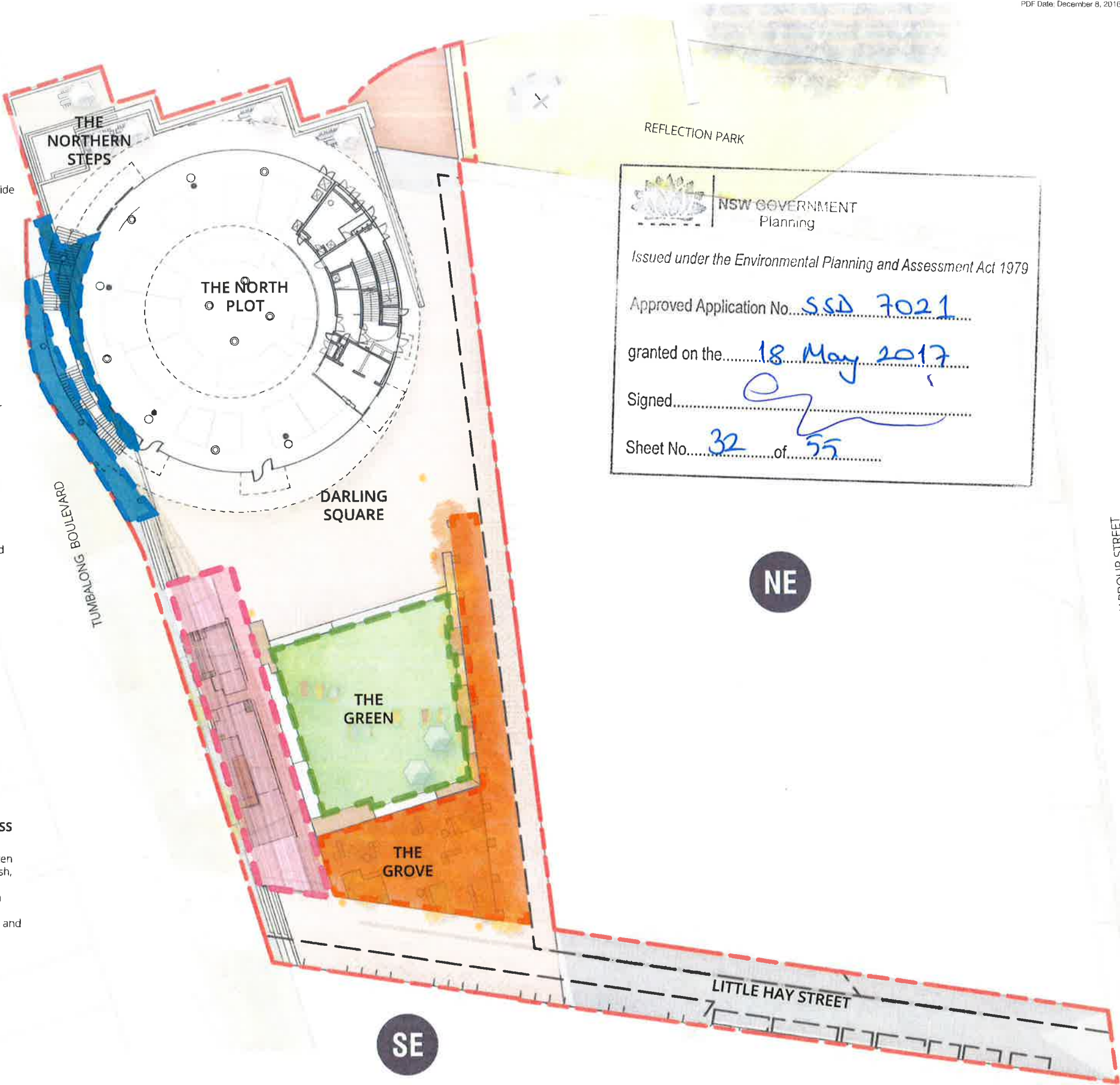
PLANTING PRINCIPLES

- THE CANOPY**
- Climbing species that complement architectural form without obscuring viewlines
 - Provide seasonal colour and interest
 - Species that prefer full sun and will provide additional shade to the surrounding seating and retail pod areas

- THE GREEN**
- Hard-wearing turf species to provide passive recreation opportunities

- THE GROVE**
- Vase to broad-domed deciduous trees provide summer shade and allow winter sun + also create seasonal interest
 - Clear trunk to allow passive surveillance and retain views to retail tenancies across space
 - Low under-planting to define intimate seating spaces whilst facilitating passive surveillance across space
 - Species palette tolerant of variable seasonable solar access, including hot summer sun
 - Opportunity for annual plantings of food plants or colour interest flowers

- NORTH WEST PLOT STAIRS + ACCESS RAMP**
- Layered, shade tolerant planting to soften plinth edge under stairs and provide lush, green backdrop to access ramp
 - Opportunity for heritage interpretation through native bush tucker planting
 - Colour interest through variable foliage and flowers



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North Plot + The Square DA Boundary

Darling Square (DS) Boundary

**LINEAR SEATING EDGE**

- Timber with steel and concrete base.
- Generous in width, double sided, with backrests and armrests at key locations.

**SEATING EDGE**

- Refined warm stone bleacher edge with 'floating' timber seating decks.

**THE GROVE SEATING**

- Playful detailing and form.
- Timber and steel.
- Suited to pairs, individuals and small groups.

**NORTHERN STEPS**

- Generous terraces for flexible seating.
- Solid, large furniture planes, of warm materiality

**FIXED PUBLIC SEATING + UMBRELLAS**

- Generous terraces for flexible seating.
- Solid, large furniture planes
- Fixed umbrellas

**BIKE PARKING**

- Steel hoops.

**RETAIL SEATING AREAS**

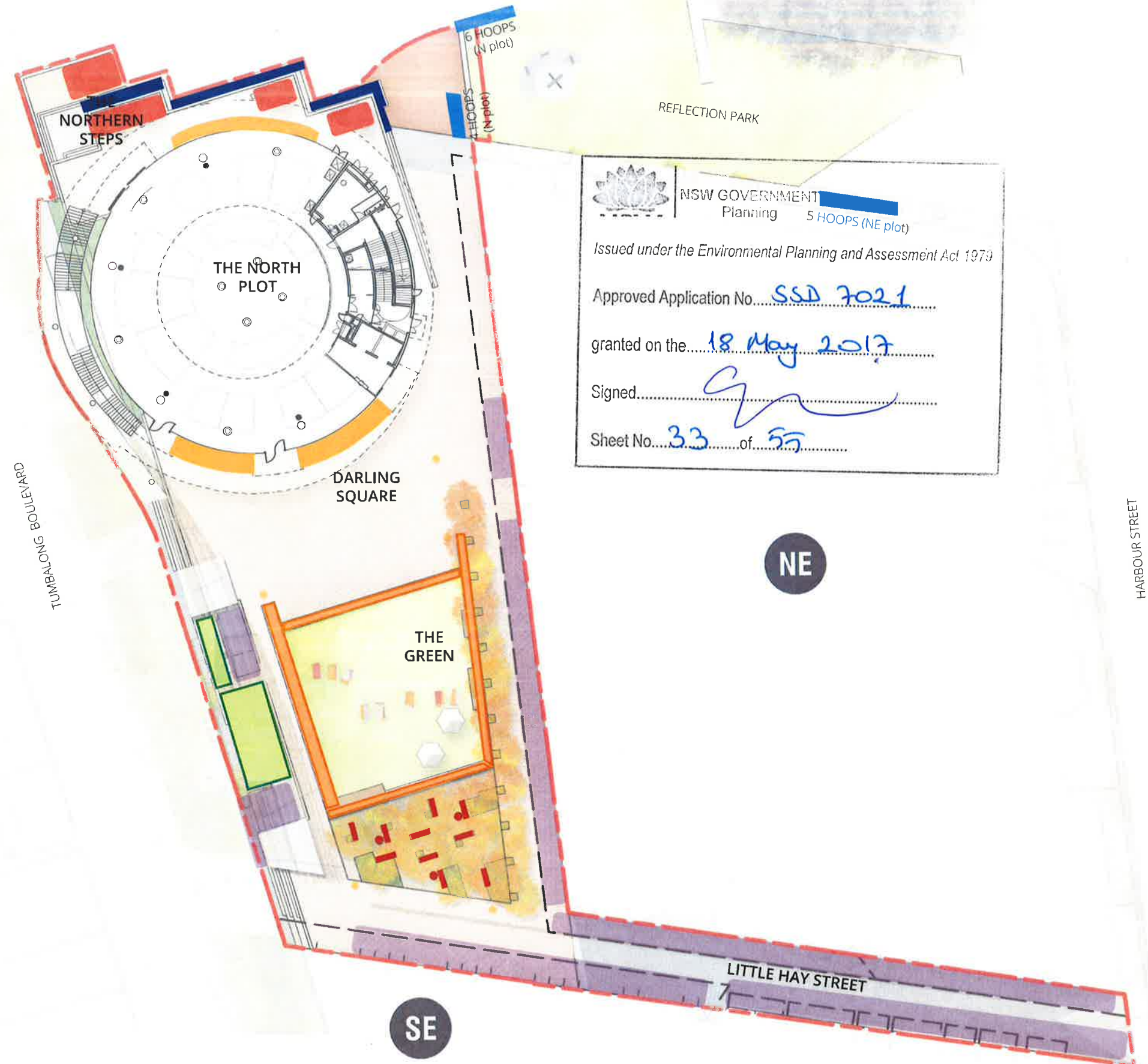
- Moveable furniture including tables and seating, that can be packed up and put away at close of business.

**RETAIL SEATING AREAS****(subject to separate future approval)**

- Moveable furniture including tables and seating, that can be packed up and put away at close of business.

Darling Square, SSDA10 (RTS)

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Planning 5 HOOPS (NE plot)

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Sheet No. 33 of 55

NORTH PLOT AND DARLING SQUARE
FURNITURE PLAN

Client: Lendlease

lendlease

Drawn: LB/RD
Checked: LN/SC/LP

Scale: 1:250 @ A1
1:500 @ A3
Date: November 2016

0 5 10 15 20m



Dwg no. 14076-SSDA10(RTS)-12
Rev A

KEY

North Plot + The Square DA Boundary

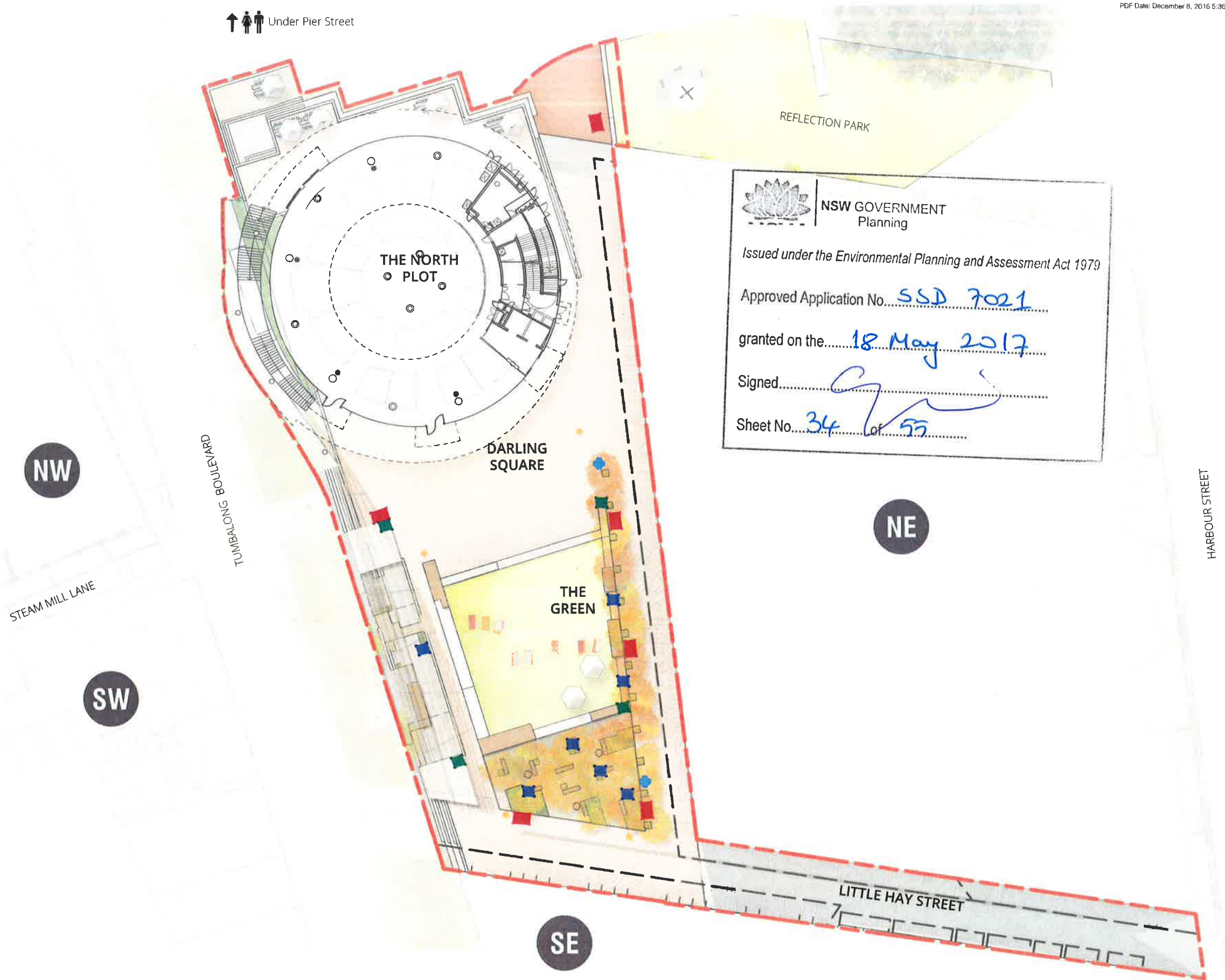
Darling Square (DS) Boundary

- GPO (single phase)
- GPO (3 phase)
- Bins
- Drinking Fountain

NOTE: LOCATIONS OF GPOS + BINS SUBJECT TO DESIGN DEVELOPEMENT

↑ ↑ Under Pier Street

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North Plot + The Square DA Boundary

Darling Square (DS) Boundary

1. GATHERING COCKLES



An Indigenous camp near Cockle Bay, 1812

Passeig de Saint Joan, Barcelona

Interpretive Boulevard planting

- Local plant species celebrate the natural realm of Darling Harbour prior to European settlement
- Paving inlays will enhance the aforementioned themes

2. STEAMING AHEAD



Albion Mills, 1841, Frederick Garling

Pitt St Mill inlay detail

Paving interpretation

- Paving inlays will allude to the former location of Dickson's millpond dam wall

3. SKILL, SWEAT AND TOIL



Cold room at Mort & Co., 1876

Delivery of Chubb Safe, 1820

Memory Lines, 2004, Ingrid Skirka

- The existing memorial to workers killed at work (Memory Lines, 2004 by Ingrid Skirka), and its accompanying interpretative plaques will remain.

4. THE MARKETPLACE



Sydney markets, 1900

Haymarket, 1930

Indicative market stall demarcation

- The proposed Darling Exchange, which is devoted to community use, includes a market on its ground floor remembering the Producer's Market of the 1930s.
- The Market Square weekend markets will recall the area's historical narratives of trade and exchange.

5. MIGRATION



Migrants arriving, 1853, Thomas Pinner

Chinese migrants, 1938

Neon Lane, Melbourne

- The ethnic and cultural diversity in Sydney will be interpreted in Little Hay Street.



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THE THEATRE

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granted on the 18 May 2017

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KEY

North Plot + The Square DA Boundary

Darling Square (DS) Boundary

- 1 The Exchange Building
- 2 Steam Mill Lane outdoor gallery
- 3 Little Hay Street
- 4 Interpretive Ground Treatment

PRECEDENTS



The Exchange
KKAA | artist's impression



Interpretive ground treatment: poetic, historical, wayfinding
Mercado del Born Square



Little Hay Street: eclectic, intriguing, delightful
Light Rain | Peter Kennedy

NOTE: Subject to separate approval

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Sheet No. 36 of 55



Darling Square, SSDA10 (RTS)
ASPECT Studios™

**NORTH PLOT AND DARLING SQUARE
PUBLIC ART STRATEGY**

Client: **Lendlease**

lendlease

Drawn: **LB/RD**
Checked: **LN/SC/LP**

Scale: **1:500 @ A1**
Date: **1:1000 @ A3**
November 2016

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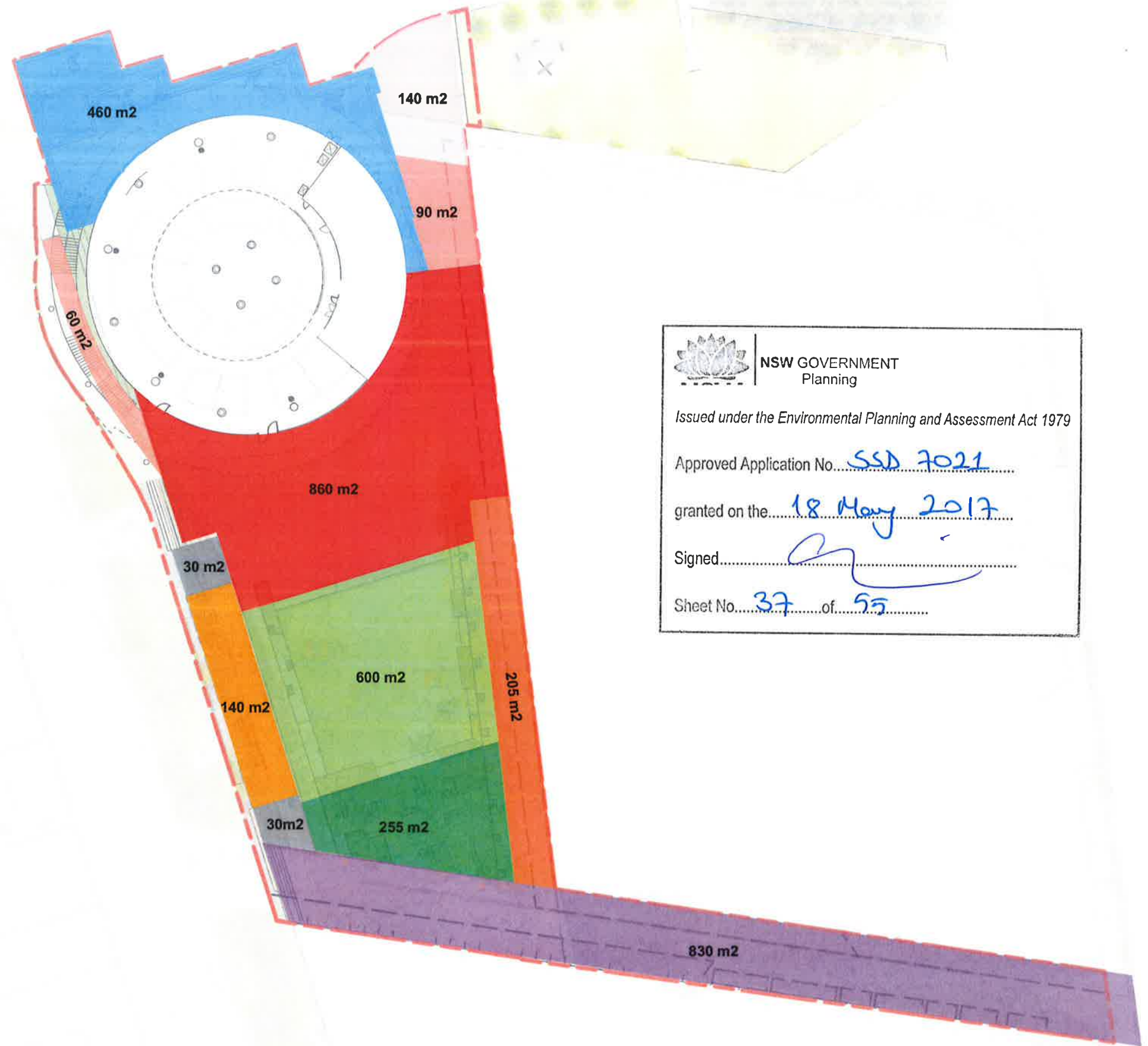
Dwg no: **14076-SSDA10(RTS)-18**
Rev: **A**

KEY

- | | | |
|--|----------------------------|---------------------|
| | 1. Northern steps | = 460m ² |
| | 2. Pumphouse forecourt | = 140m ² |
| | 3. Northern ramps | = 150m ² |
| | 4. Market square | = 860m ² |
| | 5. Retail pod (North) | = 30m ² |
| | 6. Timber seats and ramp | = 140m ² |
| | 7. Retail pod (South) | = 30m ² |
| | 8. The Green | = 600m ² |
| | 9. The Grove | = 255m ² |
| | 10. NE plot western retail | = 205m ² |

TOTAL m² = 2870m²

Little Hay = 830m²



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REFER DRAWING PD-CI-5005 FOR BEGINNING OF NOTES

CONCRETE WORKS NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 1379 AND AS/NZ 3600 AND OTHER APPLICABLE AUSTRALIAN STANDARDS (EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS).
2. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDES SLAB THICKNESS, BEAMS AND SLABS ARE TO BE CAST TOGETHER (MONOLITHIC) U.N.O.
3. ELEMENTS SIZES OF CONCRETE ELEMENTS ARE EXCLUSIVE OF THICKNESS OF APPLIED FINISHES.
4. ENGINEER'S APPROVAL REQUIRED. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
5. CONSTRUCTION JOINT LOCATIONS. CONSTRUCTION JOINTS SHALL BE FULLY FORMED AS DETAILED ON THE DRAWINGS AND ONLY BE USED WHERE SHOWN ON THE DRAWINGS OR SPECIFICALLY APPROVED BY THE ENGINEER.

6. EXPOSED EDGES. ALL EXPOSED EDGE CORNERS OF CONCRETE COLUMNS AND SLABS / BEAMS SHALL HAVE 15 mm CHAMFER U.N.O.
7. CAMBER TO SUSPENDED SLABS. SHALL BE POSITIVE UPWARD CAMBER OF 3mm OVER 1000mm SPAN U.N.O. BEAMS SHALL BE CAMBERED AS SHOWN ON DRAWINGS. NO CAMBER IS REQUIRED TO POST-TENSIONED BEAMS AND SLABS U.N.O.

8. QUALITY. CONCRETE MAXIMUM AGGREGATE SIZE SHALL BE 20mm AND QUALITY SHALL BE AS FOLLOWING TABLE:

ELEMENT	F _c (MPa)
PILE / SHORING WALL	40
COLUMN	50
WALLS	50
BASE SLAB	50
ROOF SLAB	50

NOTE: SHRINKAGE AT 56 DAYS SHALL NOT EXCEED 650 MICROSTRAN.

ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F _c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS & PITS	32	80	20
RETAINING WALLS	32	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

9. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY HYDER CONSULTING.

10. CONCRETE CLASS AND COLOUR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CONCRETE CLASS AND COLOUR REQUIREMENTS.

11. CEMENT GRADE. ALL CEMENT IS TO BE SHRINKAGE LIMITED (SL) CEMENT OR GENERAL BLENDED (GB) CEMENT OR TYPE SULPHATE-RESISTING CEMENT (SR) AS REQUIRED, COMPLYING WITH AS 3972 U.N.O. ON THE DRAWINGS.

CEMENT TYPE:
60% SL CEMENT
33% FLY ASH
7% AMORPHOUS SILICA
MINIMUM CEMENT CONTENT = 370kg/m³
MAXIMUM WATER / CEMENT RATIO = 0.45

- CONCRETE SUPPLIER MUST PROVIDE CONCRETE MIX CERTIFICATE PRIOR TO CONSTRUCTION COMMENCING.

12. 'D' DURABLE CONCRETE. WHERE THE LETTER 'D' APPEARS BESIDE A CONCRETE ELEMENT, THIS SYMBOLISES SPECIAL DURABLE CONCRETE WHERE THE ELEMENT HAS AT LEAST ONE FACE EXPOSED TO THE WEATHER OR POSSIBLE CORROSIVE ATTACK. (THIS CONCRETE REQUIRES A SPECIAL TOLERANCE FOR THE COVERS OF - 30mm - 40mm). SPECIAL PRECAUTIONS ARE REQUIRED TO IMPROVE THE LONG TERM PERFORMANCE OF THESE FACES OF CONCRETE. IN PARTICULAR, NO METAL INSERTS, METAL BAR CHAIRS OR METAL FORM SPACES OF ANY KIND ARE TO BE PLACED IN THE COVER ZONE WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER. TAKE SPECIAL CARE TO AVOID SCRAP TIE WIRE OR OTHER MATERIAL BEING PRESENT. ANY OFF-CUTS, SCRAP OR FOREIGN MATERIAL SHALL BE REMOVED BEFORE POUR BEGINS. REFER DRAWINGS FOR LOCATIONS.

13. MAXIMUM SLUMP ALLOWANCE. CONCRETE SLUMP SHALL BE 80mm IN COMPLIANCE WITH AS 1379 U.N.O. ON THE DRAWINGS.

14. CONCRETE POUR GUIDELINES. FREE DROPPING OF CONCRETE FROM HEIGHTS GREATER THAN 1000mm IS NOT PERMITTED UNLESS METHOD APPROVED BY THE ENGINEER.

CONCRETE WORKS NOTES CONTINUED

15. MAXIMUM LIFT OF POUR AT ONE TIME FOR CONCRETE ELEMENTS SHALL BE 3000mm UNLESS METHOD OF PLACEMENT HAS BEEN APPROVED BY THE ENGINEER.

16. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED IN THE FORM TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION OF THE CONCRETE.

17. FORMWORK SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH AS 3610 AND AS 3600.

18. SURFACES RECEIVING GROUT AND CONSTRUCTION JOINTS SHALL BE LEFT ROUGH AND FREE OF LAITANCE.

19. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S. SPECIFICATION R83.

20. CURING PERIOD. CONCRETE MUST BE CURED BY AN APPROVED METHOD IN ACCORDANCE WITH THE SPECIFICATION FOR SEVEN (7) DAYS AFTER POURING. CURING COMPOUNDS WHERE APPROVED MUST COMPLY WITH AS 3799.

21. PROPERTIES. THE PROPERTIES OF THE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS/NZS 4671, REINFORCEMENT CLASSIFICATION.

SHAPE	D - DEFORMED, R - ROUND
STRENGTH GRADE	250, 300, 500 (LOWER CHARACTERISTICS VALUE OF YIELD STRESS)
DUCTILITY CLASS	L - LOW N - NORMAL
SIZE OR DIAMETER OF BAR	N12, N16, N20, N24, N28, N32, N36.

22. DUCTILITY CLASS. N NORMAL DUCTILITY CLASS HOT ROLLED DEFORMED BARS OR MESH TO AS/NZ 4671 WITH F_y = 500MPa. R NORMAL DUCTILITY CLASS 250N PLAIN ROUND BAR TO AS/NZS 4671 WITH F_y = 250MPa. SL DENOTES COLD-DRAWN WIRE REINFORCING FABRIC TO AS 4671 THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 4671. L LOW DUCTILITY CLASS 500L REINFORCING MESH OR BAR TO AS/NZS 4671 WITH F_y = 500MPa. LOW DUCTILITY CLASS L REINFORCEMENT IS NOT TO BE USED OTHER THAN WHERE SHOWN ON DRAWINGS. THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NOMINAL BAR DIAMETER IN MILLIMETRES (REFER CLAUSE 19 ABOVE).

NUMBER OF BARS IN GROUP $\frac{1}{\sqrt{A}}$ BAR GRADE AND TYPE 17N20 - 250 NOMINAL BAR SIZE IN mm $\frac{1}{\sqrt{A}}$ SPACING IN mm

23. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL: 25mm MINIMUM LAP 2 WIRES

24. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.

25. REINFORCEMENT MINIMUM COVER TABLE.

MINIMUM CONCRETE COVER	
ELEMENT	COVER
PILE / SHORING WALL	75mm
BASE SLAB	65mm
ROOF SLAB	65mm
COLUMN	65mm
WALL	65mm

26. SPLICES IN REINFORCEMENT. SHALL ONLY BE MADE IN THE POSITIONS SHOWN OR AS OTHERWISE APPROVED BY THE ENGINEER. MINIMUM LAP FOR ALL FABRICS SHALL BE THE SPACING OF TWO TRANSVERSE WIRES PLUS 25mm. GRADE 500N BARS SHALL BE LAPPED IN ACCORDANCE WITH THE TENSION DEVELOPMENT REFER TO STANDARD LAP LENGTH/SPLICE SCHEDULE ON DRAWINGS. TABLES IN REINFORCEMENT SECTION R08.

27. WELDING NOT PERMITTED. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

28. REINFORCEMENT SUPPORT. DURING CONCRETE PLACEMENT ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED AND HELD IN ITS CORRECT POSITION BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS AT 1000mm MAXIMUM CENTRES. THE CHAIR MATERIAL WITHIN THE COVER ZONE SHALL SUIT THE EXPOSURE CONDITIONS.

29. REINFORCEMENT LENGTHS. REINFORCEMENT LENGTHS INDICATED ARE IN MILLIMETRES (mm). TURN DOWNS AND CRANKS ARE NOT INCLUDED IN THE DIMENSION. THE CONTRACTOR SHALL CHECK ALL LENGTHS BEFORE ORDERING.

30. ALTERNATE BAR PLACEMENT. BARS SHOWN STAGGERED ON PLAN SHALL BE PLACED ALTERNATELY.

31. BAR DISTRIBUTION. BARS SHALL BE EVENLY DISTRIBUTED OVER THE WIDTH OF THE STRIP INDICATED ON THE DRAWINGS U.N.O.

CONCRETE WORKS NOTES CONTINUED

32. EMBEDMENTS. ALL EMBEDMENTS SHALL BE HOT DIPPED GALVANISED (H.D.G.) U.N.O.

33. CONCRETE BOND SEPARATION. CONCRETE SHALL BE SEPARATED FROM SUPPORTING MASONRY BY TWO LAYERS OF MALTHOD (OR AN APPROVED EQUIVALENT). VERTICAL JOINTS IN CONCRETE EXCEPT FOR CONSTRUCTION JOINTS (C.J.'S) SHALL BE KEPT FREE OF ADJOINING SURFACES BY 10mm THICKNESS OF ABLEFLEX (OR APPROVED EQUIVALENT) U.N.O. ON DRAWINGS. ALL NON-LOADBEARING WALLS SHALL BE KEPT CLEAR OF THE UNDERSIDE OF THE SLABS AND BEAMS BY 20mm (MINIMUM) (U.N.O.) ON THE DRAWINGS. ENSURE THE REQUIRED FIRE PROTECTION BARRIER TREATMENT IS INSTALLED TO THESE AREAS.

34. CONCRETE SHRINKAGE. SHRINKAGE OF CONCRETE SHALL NOT EXCEED 650 MICROSTRAN AT 56 DAYS. SUBMIT SAMPLES OF SHRINKAGE TESTS WITH (MIX DESIGN) FOR APPROVAL PRIOR TO COMMENCEMENT OF CONCRETE WORKS.

STRUCTURAL INSPECTIONS

1. STRUCTURAL INSPECTIONS ARE REQUIRED FOR STRUCTURES WHERE NOTED ON PLANS OR REQUIRED BY COUNCIL.

2. 48 HOURS NOTICE IS REQUIRED BY HYDER CONSULTING FOR ALL INSPECTIONS.

RAINGARDEN NOTES

1. THE UNDERDRAIN FOR THE BIORETENTION SYSTEM SHALL BE SLOTTED PVC PIPE TO THE REQUIREMENTS OF AS2439 PART 1 ACCORDING TO THE FOLLOWING:
- MINIMUM SPACING FOR SYSTEMS IS 15m AS SHOWN ON DRAWINGS.
 - THE MINIMUM CLEAR OPENING FOR SLOTS SHOULD BE 1500mm²/m WITH THE MAXIMUM SLOT WIDTH OF 15mm.
 - ALL PIPE JUNCTIONS AND CONNECTIONS TO THE OVERFLOW PIT SHALL BE SEALED TO PREVENT SOIL ENTERING THE PIPE NETWORK.
 - FILTER CLOTH WRAPPINGS OR SOCKS ARE NOT PERMITTED AROUND SLOTTED UNDERDRAINS.
 - AN INSPECTION WELL SHALL BE PROVIDED BY EXTENDING THE UNDERDRAIN VERTICALLY BEYOND THE SURFACE OF THE BIORETENTION SYSTEM BY A MINIMUM OF 500mm. ALL VERTICAL SECTIONS OF THE UNDERDRAIN SHALL NOT BE PERFORATED AND SHALL BE CAPPED WITH SECURED SCREWS TO REDUCE THE RISK OF VANDALISM. USE 45 DEGREE ELBOWS RATHER THAN 90 DEGREE ELBOWS TO FACILITATE ENTRY OF MAINTENANCE EQUIPMENT.

2. UNDERDRAINS SHALL BE LAID IN A MINIMUM OF 150mm DRAINAGE LAYER COMPRISED OF FINE GRAVEL (2-5mm), WITH <2% FINES AND HYDRAULIC CONDUCTIVITY OF 4000 mm/hr. THE DRAINAGE LAYER DEPTH MUST ENSURE AT LEAST 50mm COVER OVER THE UNDERDRAIN. BRIDGING CRITERIA SHALL BE APPLIED TO AVOID MIGRATION OF THE TRANSITION LAYER INTO THE DRAINAGE LAYER. D₁₀ (DRAINAGE LAYER) ≤ 5 X D₉₅ (TRANSITION LAYER).

3. WHERE INDICATED ON THE DESIGN DRAWINGS, A TRANSITION LAYER SHALL BE INCLUDED. THE TRANSITION LAYER MATERIAL SHALL BE CLEAN, WELL GRADED SAND MATERIAL (TYPICAL 15-25mm) CONTAINING <2% FINES. THE PARTICLE SIZE DISTRIBUTION OF THE SAND SHALL BE ASSESSED TO MEET BRIDGING CRITERIA THAT THE SMALLEST 15% OF THE SAND PARTICLES BRIDGE WITH THE LARGEST 15% OF THE FILTER MEDIA. D₁₀ (TRANSITION LAYER) ≤ 5 X D₉₅ (FILTER MEDIA).

4. BIORETENTION FILTER MEDIA SHALL COMPLY WITH THE FOLLOWING:
- HAVE A MINIMUM HYDRAULIC CONDUCTIVITY OF 2000mm/hr. THIS SHOULD BE MEASURED ACCORDING TO ASTM F3515-06. STANDARD TEST METHODS FOR SATURATED HYDRAULIC CONDUCTIVITY, WATER RETENTION, POROSITY AND BULK DENSITY OF PUTTING GREEN AND SPORTS TURF ROOT ZONES METHOD. HAVE TOTAL CLAY AND SILT MIX LESS THAN 3% (W/W) TO REDUCE THE LIKELIHOOD OF STRUCTURAL COLLAPSE OF SUCH SOILS.
 - THE FILTER MEDIA SHALL BE WELL GRADED LOAMY SAND WITHOUT GAP IN THE PARTICLE SIZE GRADING AND THE COMPOSITION SHALL NOT BE DOMINATED BY A SMALL PARTICLE SIZE RANGE. THE FOLLOWING IS A GUIDE FOR THE FILTER MEDIA PARTICLE SIZE DISTRIBUTION.

CLAY & SILT	<3%	(<0.05mm)
VERY FINE SAND	5-30%	(0.05-0.15mm)
FINE SAND	10-30%	(0.15-0.25mm)
MEDIUM TO COARSE SAND	<40-60%	(0.25-1.0mm)
COARSE SAND	7-10%	(1.0-2.0mm)
FINE GRAVEL	<3%	(2.0-3.4mm)

- FILTER MEDIA SHALL BE TESTED (ACCORDING TO AS4419-2003) TO COMPLY WITH THE FOLLOWING:
 - TOTAL NITROGEN (TN) CONTENT = 1000mg/kg
 - ORTHOPHOSPHATE (PO₄) CONTENT = 80mg/kg
 - ORGANIC MATTER AT LEAST 3% (W/W)
 - PH 5.5-7.5 (PH 15 IN WATER)
 - ELECTRICAL CONDUCTIVITY (EC) = 12 dS/m
 - DISPERSIBILITY

5. AN ALTERNATIVE OPTION FOR BIORETENTION FILTER MEDIA IS AN ENGINEERED FILTER MEDIA. THIS IS A WASHED, WELL-GRADED SAND WITH APPROPRIATE HYDRAULIC CONDUCTIVITY (SUCH AS MATERIALS USED FOR CONSTRUCTION OF GOLF GREENS). THE TOP 100mm OF THE FILTER MEDIA SHALL THEN BE AMELIORATED WITH APPROPRIATE ORGANIC MATTER, FERTILISER AND TRACE ELEMENTS AS SHOWN BELOW:

CONSTITUENT	QUANTITY (kg/100m ² FILTER AREA)
GRANULATED POULTRY MANURE FINES	50
SUPERPHOSPHATE	2
MAGNESIUM SULPHATE	3
POTASSIUM SULPHATE	2
TRACE ELEMENT MIX	1
FERTILISER NPK (16:4:14)	4
LIME	20

6. POTENTIAL FILTER MEDIA SHALL BE ASSESSED BY A HORTICULTURALIST TO ENSURE THAT THEY ARE CAPABLE OF SUPPORTING A HEALTHY VEGETATION COMMUNITY.

7. THE BIORETENTION FILTER MEDIA SHALL BE TESTED TO DEMONSTRATE COMPLIANCE WITH THE ABOVE-MENTIONED REQUIREMENTS AT THE FOLLOWING FREQUENCIES:
- FOR BIORETENTION SYSTEMS <500m², ONE SAMPLE PER 500m² OF FILTER MEDIA.
 - FOR BIORETENTION SYSTEMS >500m², ONE SAMPLE PER 500m² OF FILTER MEDIA FOR THE HYDRAULIC CONDUCTIVITY TEST PLUS ONE SAMPLE PER 2000m² OF FILTER MEDIA FOR ALL OTHER REQUIRED TESTS.

8. TESTING SHALL BE UNDERTAKEN ON THE ACTUAL MATERIAL TO BE DELIVERED TO THE SITE. THE SUPPLIER AND CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THE FILTER MEDIA MEETS THE SPECIFICATIONS AND THE CORRECT MATERIAL IS DELIVERED TO THE SITE PRIOR TO INSTALLATION. THE SUPPLIER SHALL ARRANGE FOR THE FILTER MEDIA TO BE TESTED BY A CERTIFIED SOIL LABORATORY IN ACCORDANCE WITH THE ABOVE SPECIFICATIONS. ON THE BASIS OF THE TESTING, THE SOIL LABORATORY AND SUPPLIER SHALL CERTIFY THAT THE MATERIAL MEETS THESE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COPY OF THE SUPPLIER'S CERTIFICATION, TEST RESULTS AND SUPPLY DOCKET TO THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) FOR REVIEW AND APPROVAL.

RAINGARDEN NOTES (CONTINUED)

9. AN IN-SITU MEASUREMENT OF HYDRAULIC CONDUCTIVITY SHALL BE UNDERTAKEN FOLLOWING COMPLETING THE CONSTRUCTION OF THE BIORETENTION SYSTEM AND PRIOR TO HANDOVER OF THE SYSTEM. THIS TESTING SHALL BE ACCORDING TO PRACTICE NOTE 1 IN-SITU MEASUREMENT OF HYDRAULIC CONDUCTIVITY (HATT AND LE COUSTUMER, APRIL 2008), WHICH CAN BE FOUND IN HTTP://WWW.MONASH.EDU.AU/FAWB/PUBLICATIONS.

10. THE FILTER MEDIA SHALL BE LIGHTLY COMPACTED DURING INSTALLATION TO PREVENT MIGRATION OF FINE PARTICLES. A SINGLE PASS OF COMPACTING MACHINERY (VIBRATING PLATE FOR SMALL SYSTEMS AND DRUM LAWN ROLLER FOR LARGER SYSTEMS) SHALL BE USED. NO HEAVY COMPACTION OR MULTI-PASS SHALL BE MADE.

11. FILTER MEDIA SHALL BE INSTALLED IN TWO LIFTS FOR DEPTHS OF OVER 500mm.

12. TO ENSURE BIORETENTION SYSTEMS ARE NOT DAMAGED DURING THE DEVELOPMENT PHASE OF THE PROJECT, CONSTRUCTION OF THE BIORETENTION SYSTEMS SHALL BE DELAYED UNTIL 85% OF THE BUILDING PHASE (CONSTRUCTION OF CIVIL WORKS, SERVICES, ROADS AND BUILDINGS) ARE COMPLETED. ALTERNATIVELY, THE CIVIL WORKS FOR BIORETENTION SYSTEMS CAN BE UNDERTAKEN ACCORDING TO THE DESIGN SPECIFICATIONS WHILE TEMPORARY PROTECTIVE MEASURES INSTALLED TO PREVENT LOGGING OF THE FILTER MEDIA DURING THE BUILDING PHASE. THESE BUILDING PHASE PROTECTION MEASURES SHALL INVOLVE THE FOLLOWING:
- INSTALLING SEDIMENT FENCES AROUND THE PERIMETER OF THE FILTER MEDIA AND THE TOP OF THE BATTER TO PREVENT SEDIMENT FROM BEING CARRIED INTO THE SYSTEM BY OVERLAND FLOW. THE FENCES WOULD CLEARLY SHOW THAT CONSTRUCTION TRAFFIC SHOULD NOT ENTER THE SYSTEM.
 - PARTIALLY PLACING FILTER MEDIA (THICKNESS LESS 75mm) WITH SURFACE COVERED WITH FILTER CLOTH AND LAYING A 75mm THICK SACRIFICIAL FILTER MEDIA OVER TOP TO PROTECT THE BIORETENTION SYSTEM DURING THE CONSTRUCTION AND BUILDING PHASES. DURING THE BUILDING PHASE, THE EXTENDED DETENTION WILL ACT AS A SHALLOW SEDIMENT BASIN.
 - WHEN THE BUILDING PHASE IS 85% COMPLETE, THESE TEMPORARY MEASURES AND ACCUMULATED SEDIMENT CAN BE REMOVED AND THE BIORETENTION SYSTEM CAN BE PLANTED AND ESTABLISHED ACCORDING TO THE LANDSCAPE DESIGN AND SPECIFICATIONS.

13. THE CONSTRUCTION OF THE BIORETENTION SYSTEMS SHALL COMPLY WITH THE FOLLOWING STEPS AND HOLD POINTS:

CONSTRUCTION STEP	HOLD POINT	SUBMISSION DETAILS	RELEASE OF HOLD POINT
BULK EARTHWORKS AND HYDRAULIC STRUCTURES. THIS INCLUDES: - SITE PREPARATION - INSTALLING OVERFLOW PIT AND OUTLET PIPE - UNDERTAKE BULK EARTHWORKS - TRIMMING AND PROFILING	INSPECTION AND SIGN OFF TO CONFIRM COMPLIANCE WITH DESIGN AND TOLERANCES.	AS-CONSTRUCTED SURVEY OF THE SYSTEM AT THIS STAGE INCLUDING HYDRAULIC STRUCTURES.	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL INSPECT THE SYSTEM, REVIEW THE AS-CONSTRUCTED SURVEY AND TAKE PHOTOS. IF THE CONSTRUCTED SYSTEM CONFORMS TO THE DESIGN AND SPECIFICATIONS, A SIGN-OFF FORM SHALL BE COMPLETED WITH AS-CONSTRUCTED SURVEY AND PHOTOS AS ATTACHMENTS.
LINER AND UNDER-DRAINAGE. THIS INCLUDES INSTALLING: - UNDERDRAINS - CLEANOUTS	INSPECTION AND SIGN OFF TO CONFIRM COMPLIANCE WITH DESIGN AND TOLERANCES.	SITE INSPECTION	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL INSPECT THE SYSTEM AND TAKE PHOTOS. IF THE CONSTRUCTED SYSTEM CONFORMS TO THE DESIGN AND SPECIFICATIONS, A SIGN-OFF FORM SHALL BE COMPLETED WITH PHOTOS AS ATTACHMENTS.
SOURCE MATERIALS FOR BIORETENTION SYSTEM. THIS INCLUDES MATERIALS FOR: - DRAINAGE LAYER - TRANSITION LAYER - FILTER MEDIA	CERTIFICATION AND SIGN OFF OF MATERIALS TO CONFIRM COMPLIANCE WITH TESTING REQUIREMENTS.	SUPPLIER CERTIFICATION (THROUGH CERTIFIED SOIL LABORATORY) THAT MATERIALS COMPLY WITH TESTING REQUIREMENTS. TEST RESULTS AND SUPPLY DOCKET	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL REVIEW THE SUBMITTED DOCUMENTATION AND IF THE MATERIALS CONFORM TO THE TESTING SPECIFICATIONS, A SIGN-OFF FORM SHALL BE COMPLETED WITH THE SUBMITTED DOCUMENTATION AS ATTACHMENTS.
CONSTRUCTION OF DRAINAGE LAYER, TRANSITION LAYER AND FILTER MEDIA.	INSPECTION TO ENSURE BIORETENTION SYSTEM LAYERS ARE CONSTRUCTED TO DESIGN SPECIFICATIONS.	SITE INSPECTION	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL INSPECT THE SYSTEM AND TAKE PHOTOS. NO STOP TO CONSTRUCTION IS NEEDED.
FINAL INSPECTION AND SIGN OFF.	INSPECTION AND SIGN OFF TO CONFIRM COMPLIANCE WITH DESIGN AND TOLERANCES.	AS-CONSTRUCTED SURVEY OF THE SYSTEM SURFACE AND SURROUNDING BUNDS.	THE DESIGNER (THROUGH THE SITE SUPERINTENDENT) SHALL INSPECT THE SYSTEM, REVIEW THE AS-CONSTRUCTED SURVEY AND TAKE PHOTOS. IF THE CONSTRUCTED SYSTEM CONFORMS TO THE DESIGN AND SPECIFICATIONS, A SIGN-OFF FORM SHALL BE COMPLETED WITH AS-CONSTRUCTED SURVEY AND PHOTOS AS ATTACHMENTS.



NSW GOVERNMENT
Planning

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Approved Application No. SSA 7021

granted on the 18 May 2017

Signed [Signature]

Sheet No. 39 of 57

DARLING HARBOUR LIVE



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REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

CLIENT



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PROJECT

SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE

DRAWING TITLE

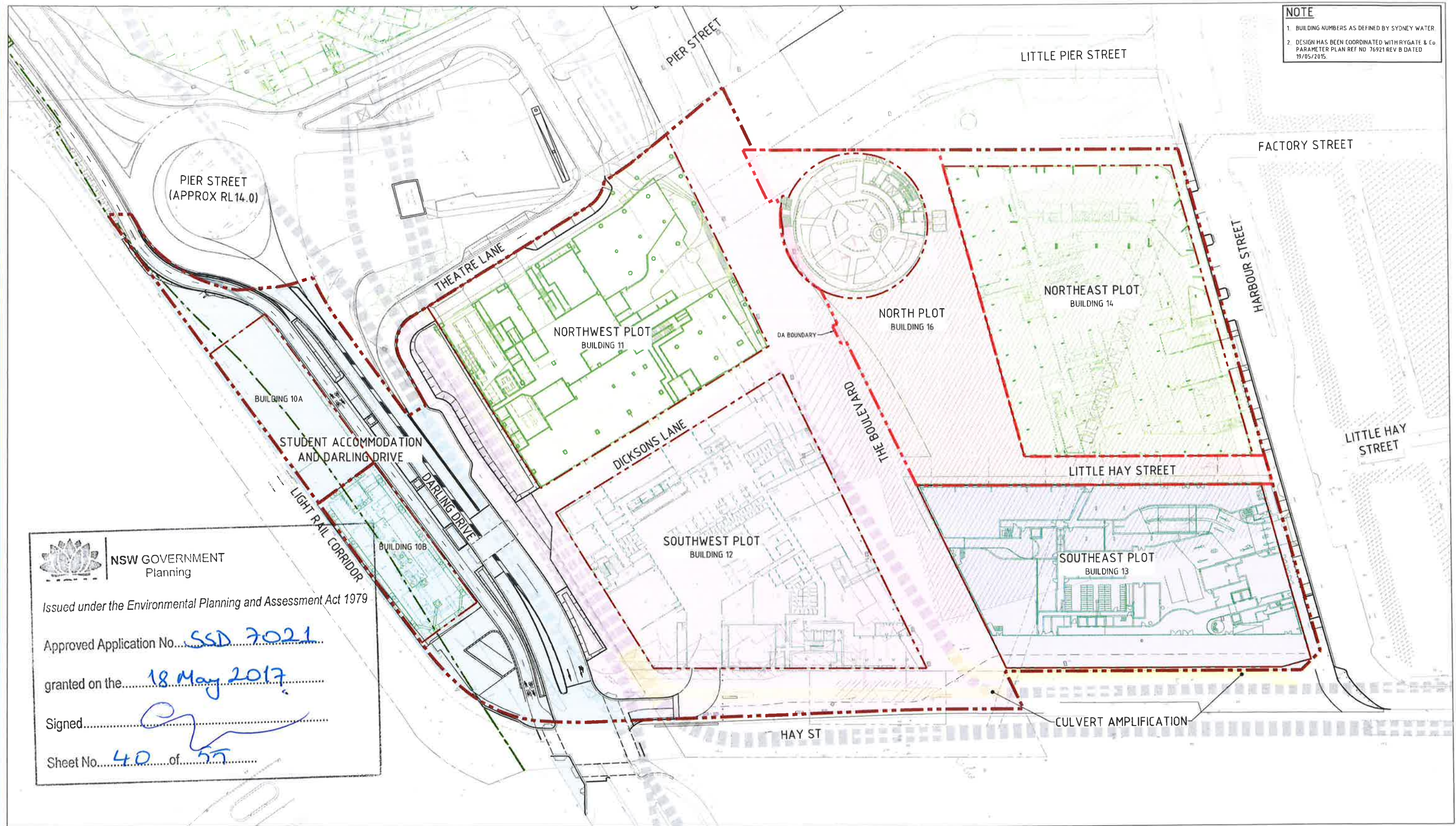
GENERAL NOTES
SHEET 2

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
-	LC	-	MBK	MBK

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	PD-CI-5006	02



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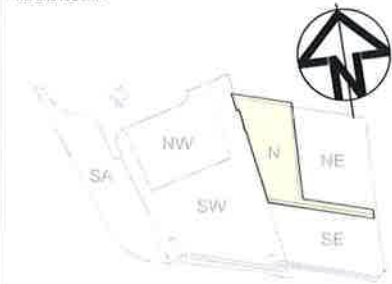
granted on the 18 May 2017

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Sheet No. 40 of 55

DARLING HARBOUR LIVE

REFERENCE MAP



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REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

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PROJECT

SICEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE

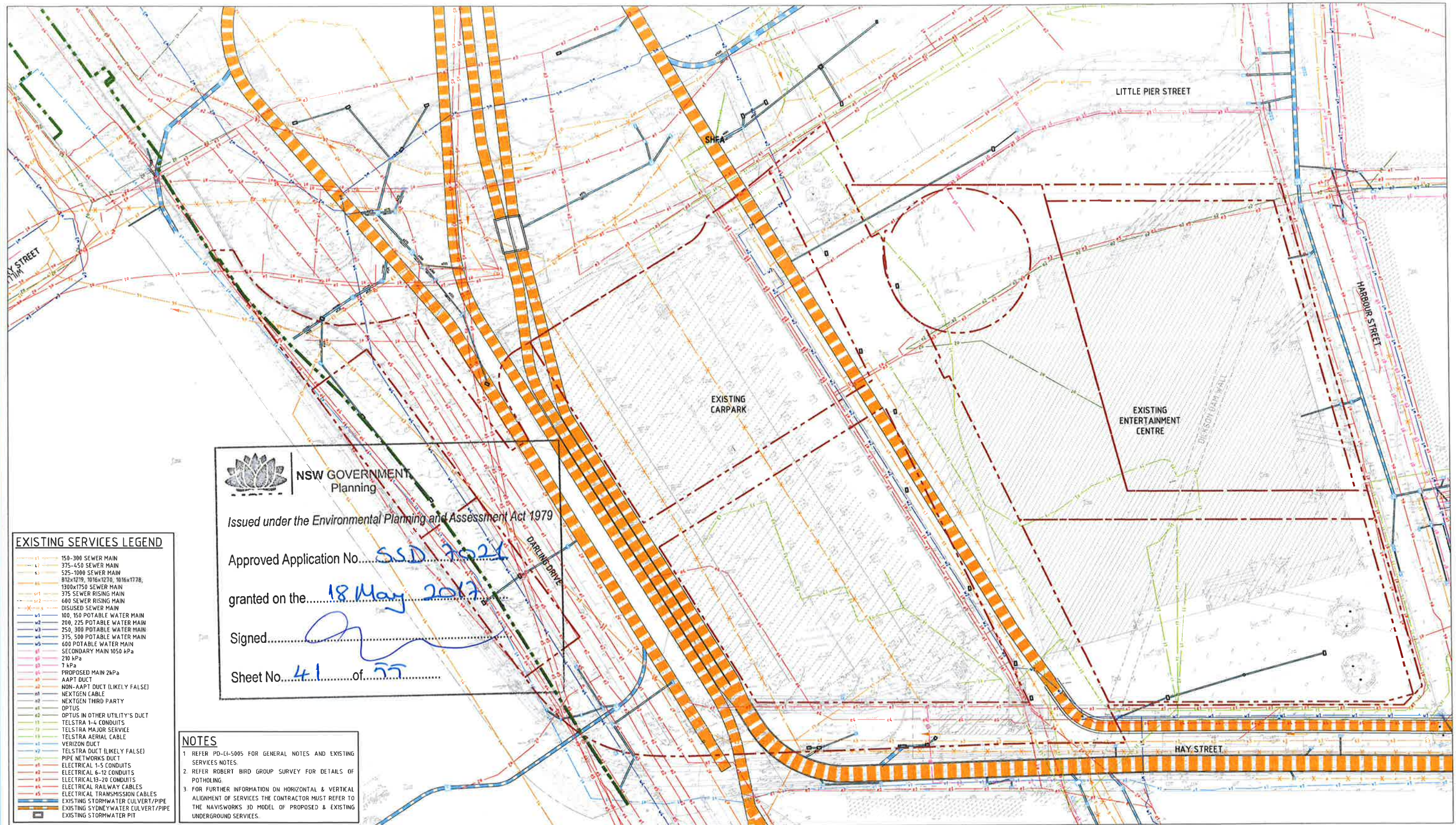
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GENERAL ARRANGEMENT
PLAN

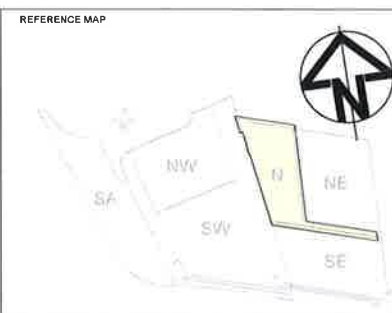
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DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1:500	LC	-	MBK	MBK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5011	02		

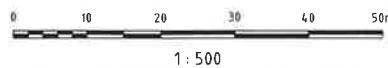


DARLING HARBOUR LIVE



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02	ISSUE FOR DEVELOPMENT APPLICATION	05/05/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

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PROJECT

**SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE**

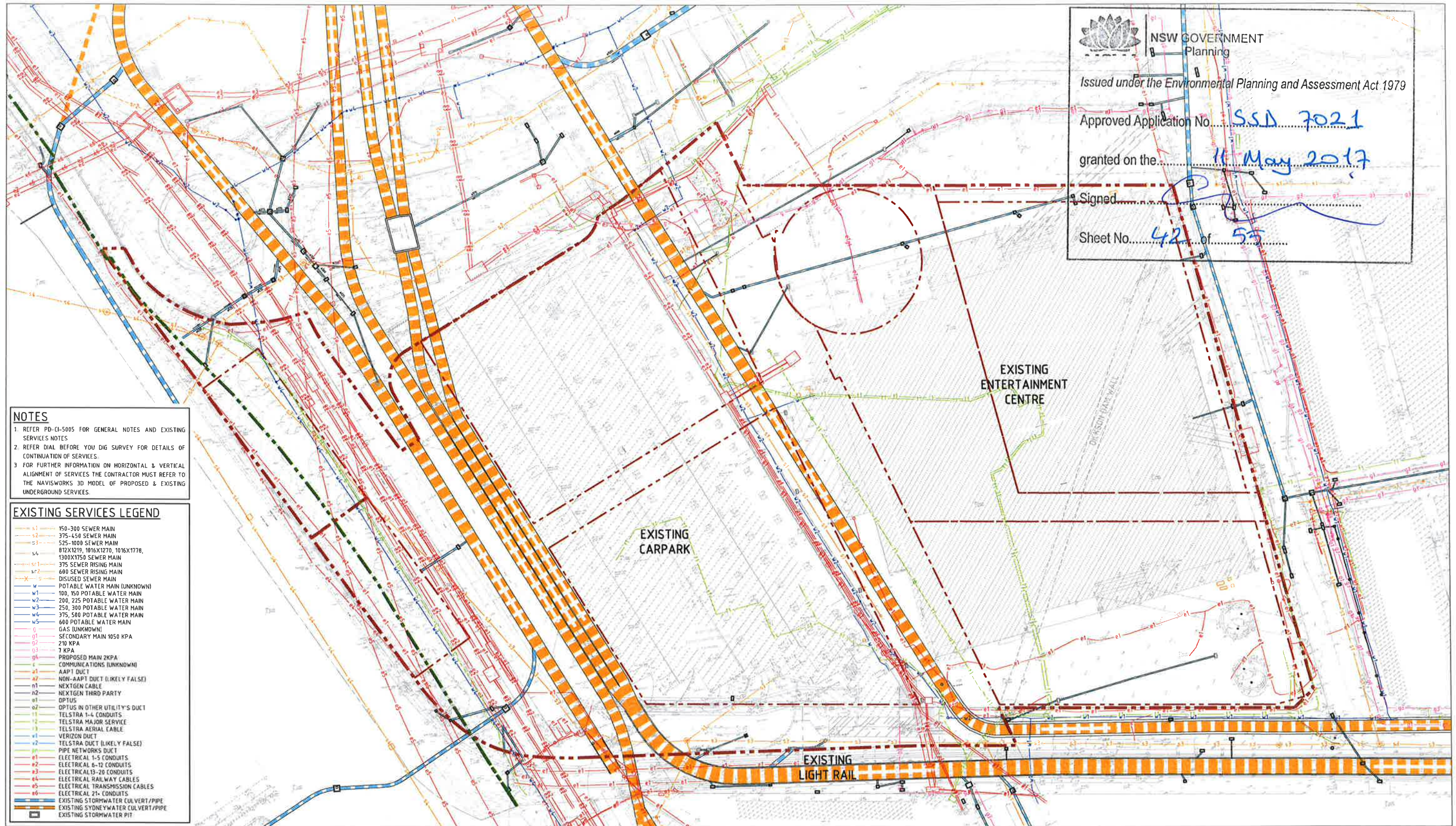
DRAWING TITLE

**SURVEY AND EXISTING
SERVICES PLAN
(DBYD)**

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
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PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5021	02		

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Planning

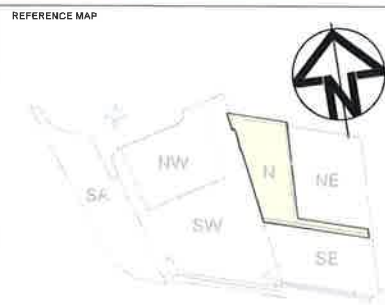
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Approved Application No. **SSA 7021**granted on the **11 May 2017**

Signed

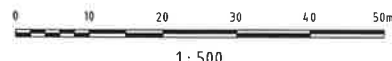
Sheet No. **42** of **55**

DARLING HARBOUR LIVE



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REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

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PROJECT

SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE

DRAWING TITLE

SURVEY AND EXISTING
SERVICES PLAN
(ROBERT BIRD GROUP)

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
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PROJECT NUMBER		DRAWING NUMBER		REV
AA004399		PD-CI-5022		02



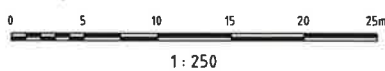
DARLING HARBOUR LIVE

REFERENCE MAP



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REV	DESCRIPTION	DATE
08	RE-ISSUE FOR DA - LL COMMENTS INCLUDED	07/12/2016
07	RE-ISSUE FOR DA	02/12/2016
06	RE-ISSUE FOR DA	07/11/2016
05	RE-ISSUE FOR DA	07/11/2016
04	DRAFT - ISSUE FOR CLIENT REVIEW - NORTH PLOT ARCHITECTURAL CHANGES	07/10/2016
03	ISSUE FOR 100% TENDER	08/03/2016
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	ORIGINAL UPLOAD INVALID AND REPLACED	05/06/2015

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PROJECT

**SICEEP - DARLING HARBOUR
 DARLING SQUARE
 NORTH PLOT AND THE SQUARE**

DRAWING TITLE

**BULK EARTHWORKS
 PLAN**

STATUS

DEVELOPMENT APPLICATION

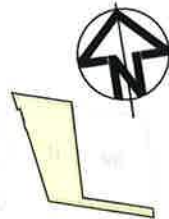
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1:250	CM	LC	DP	MK

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	PD-CI-5151	08



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REFERENCE MAP



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05	RE-ISSUE FOR DA	01/11/2016
04	DRAFT - ISSUE FOR CLIENT REVIEW - NORTH PLOT ARCHITECTURAL CHANGES	07/10/2016
03	ISSUE FOR 100% TENDER	08/03/2016
02	ISSUE FOR DEVELOPMENT APPLICATION	05/08/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	18/05/2015

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NORTH PLOT AND THE SQUARE**

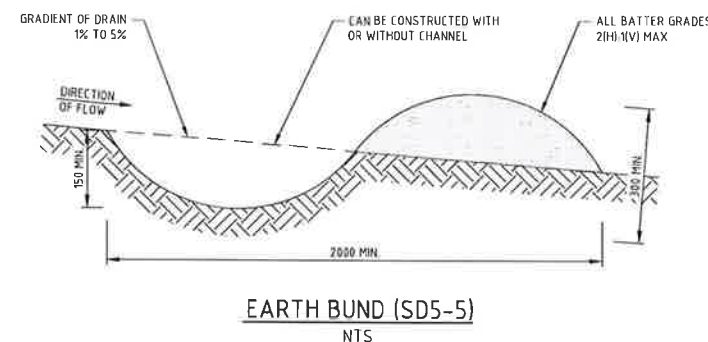
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**SEDIMENT AND EROSION
CONTROL PLAN**

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1 : 250	CM	MBK	DP	MK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5201	08		



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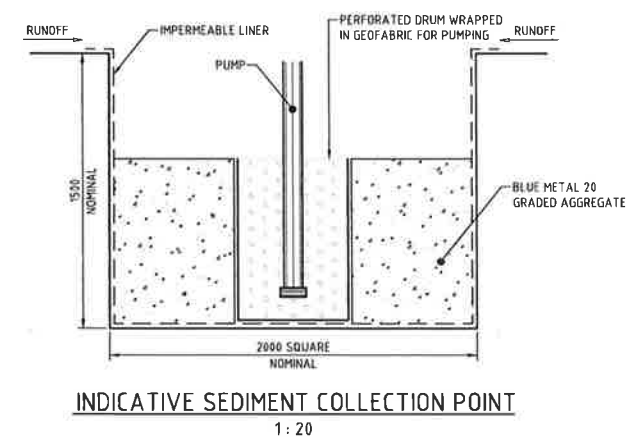
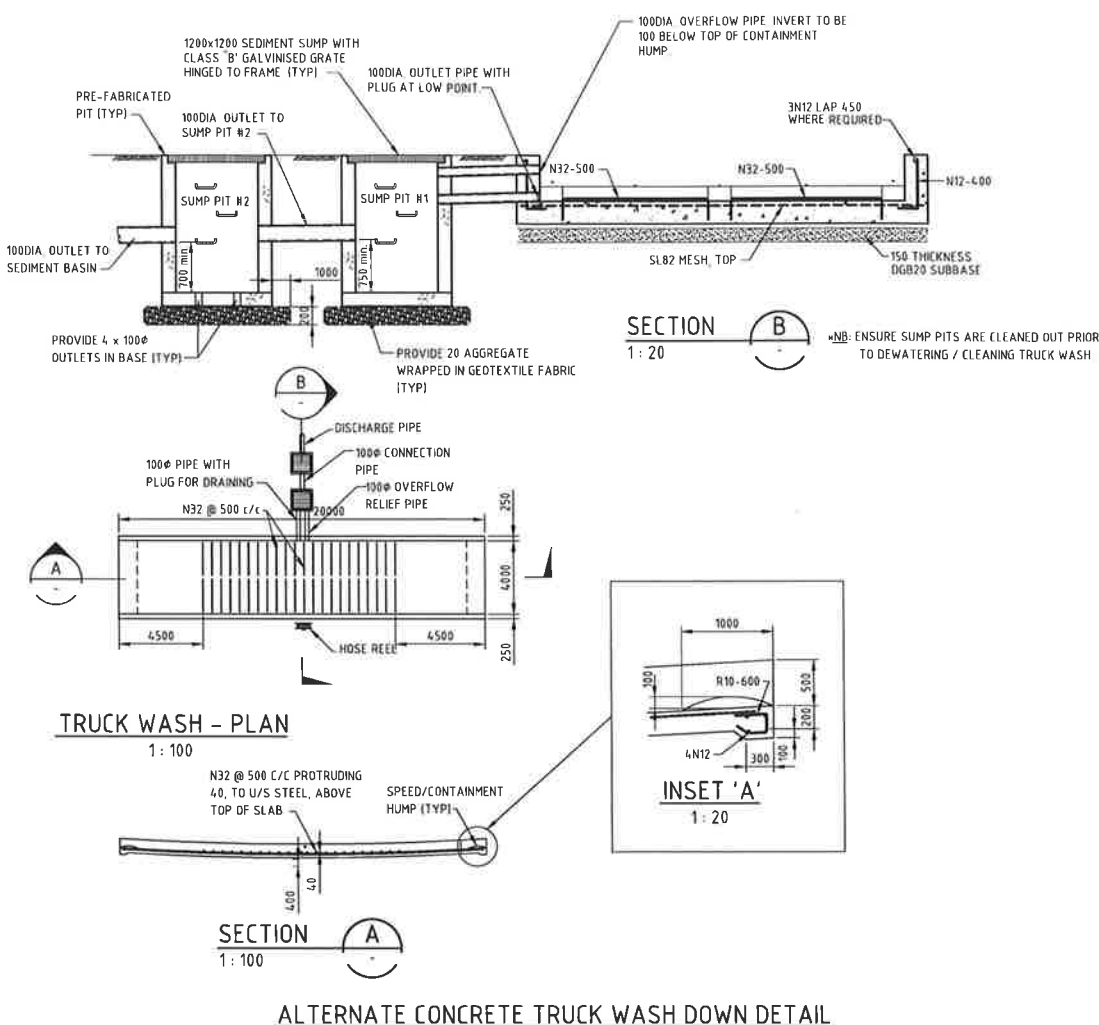
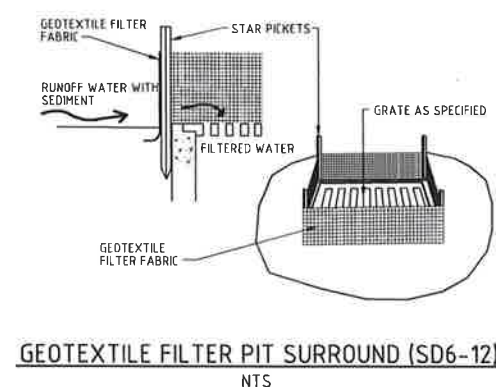
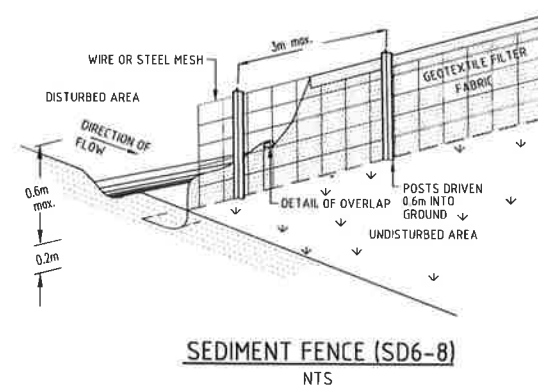
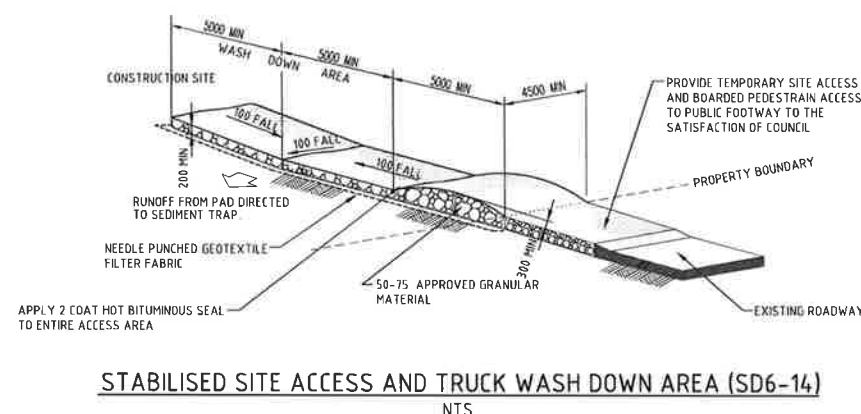
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Approved Application No. SSD 7021

granted on the 18 May 2017

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Sheet No. 45 of 55



NOTE:
(SD____) INDICATES STANDARD DRAWINGS,
REFER MANAGING URBAN STORMWATER, SOIL
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06	RE-ISSUE FOR DA	07/11/2016
05	RE-ISSUE FOR DA	01/11/2016
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03	ISSUE FOR 100% TENDER	09/03/2016
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	18/05/2015
REV	DESCRIPTION	DATE

Date Plotted: 7 Dec 2016 - 03:42PM File Name: F:\AA004399\E-CADIC-Civil\D-Find\B-PDA\F-North Plot And Public Domain (PD-C)-5001 - PD-C)-5999\PD-C)-5301-Civil\WorksAndStormwaterPlan.dwg

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SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE

1. REFER DRAWING PD-CI-5005 FOR GENERAL NOTES
2. REFER DRAWING PD-CI-5541 FOR STANDARD STORMWATER DRAINAGE DETAILS
3. EXISTING DRAINAGE SYSTEMS ARE NOT TO BE DECOMMISSIONED UNLESS DETAILED SURVEY CLEARLY DEMONSTRATES THE SYSTEMS DO NOT SERVE UPSTREAM CATCHMENT
4. REFER TO CIVIL WORKS DETAILS FOR FURNITURE FOOTINGS

	PROPOSED CONTOUR
	EXISTING CONTOUR
	EXISTING STORMWATER PIPE / CULVERT TO BE RETAINED AND PROTECTED
	EXISTING STORMWATER PIPE / CULVERT TO BE DEMOLISHED AND BACKFILLED
	EXISTING STORMWATER PIT TO BE RETAINED (OUTLINE SHOWN INDICATIVE ONLY)
	EXISTING STORMWATER PIT TO BE DEMOLISHED (OUTLINE SHOWN INDICATIVE ONLY)
	PROPOSED STORMWATER PIPE / CULVERT
	PROPOSED STORMWATER PIPE / CULVERT AS PART OF OTHER PROJECTS. REFER RELEVANT PLOT DRAWINGS FOR DETAILS
	PROPOSED SURFACE INLET PIT
	PROPOSED PLO506 GROSS POLLUTANT TRAP WITH SQUARE/RECTANGLE COVER TO MANUFACTURERS DETAILS
	PROPOSED GRATED CHANNEL DRAIN ACO KS200 WITH HEELPROOF GRATE
	PROPOSED Ø100 SLOTTED SUBSOIL DRAIN WITH CLEAROUT (REFER TO DETAILS)
	PROJECT BOUNDARY

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**CIVIL WORKS
AND STORMWATER
PLAN**

DEVELOPMENT APPLICATION

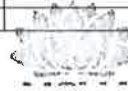
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1 : 250	CM	KM	DP	MK

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	PD-CI-5301	08

Original Sheet Size A1 - 841 x 594mm

PIT	TYPE	COVER DETAILS	PIT WIDTH (mm) "X"	PIT LENGTH (mm) "Y"	REFERENCE DRAWING	COMMENTS
NN-A\1	RAINWATER TANK	-	-	-	-	DETAILS TO BE CONFIRMED
NN-A\2	GROSS POLLUTANT TRAP	CLASS "D" PAVER INFILL TO MANUFACTURERS SPECIFICATIONS	-	-	REFER ROCLA STANDARD DRAWING 207772	ROCLA CDS MODEL PLO506 WITH SQUARE/RECTANGLE COVER TO MANUFACTURER DETAILS.
NN-A\3	JUNCTION PIT - TYPE A	900 X 900 CLASS "D" CAST IRON FRAME WITH PAVER INFILL	900	900	PD-CI-5561	PROVIDE MIN 2m STUB CONNECTION FOR RETAIL POD
NN-B\1	SURFACE INLET PIT - TYPE A	900 X 900 CLASS "D" STAINLESS STEEL HEELSAFE	900	900	PD-CI-5561	
NN-B\2	SURFACE INLET PIT - TYPE A	900 X 600 CLASS "D" STAINLESS STEEL HEELSAFE	900	600	PD-CI-5561	
NN-C\2	BUILDING CONNECTION	NA	-	-	-	CONNECT TO NORTH PLOT BUILDING
NN-D\1	SURFACE INLET PIT - TYPE A	900 x 900 CLASS "D" GALVANISED GRATE HINGED TO FRAME	900	900	PD-CI-5561	
NN-E\2	JUNCTION PIT - TYPE A	900 X 900 CLASS "D" CAST IRON FRAME WITH PAVER INFILL	900	900	PD-CI-5561	
NN-E\3	SURFACE INLET PIT - TYPE A	900 X 600 CLASS "D" STAINLESS STEEL HEELSAFE	600	900	PD-CI-5561	
NN-F\1	SURFACE INLET PIT - TYPE A	900 X 900 CLASS "D" STAINLESS STEEL HEELSAFE	900	900	PD-CI-5561	
NN-F\2	SURFACE INLET PIT - TYPE A	900 X 900 CLASS "D" STAINLESS STEEL HEELSAFE	900	900	PD-CI-5561	PROVIDE MIN 2m STUB CONNECTION FOR RETAIL POD
NN-F\3	SURFACE INLET PIT - TYPE A	900 X 900 CLASS "D" STAINLESS STEEL HEELSAFE	900	900	PD-CI-5561	
NN-F\4	SURFACE INLET PIT - TYPE A	900 X 900 CLASS "D" STAINLESS STEEL HEELSAFE	900	900	PD-CI-5561	
NN-F\5	SURFACE INLET PIT - TYPE A	600 X 600 CLASS "D" STAINLESS STEEL HEELSAFE	600	600	PD-CI-5561	
NN-F\6	SURFACE INLET PIT - TYPE A	600 X 600 CLASS "D" STAINLESS STEEL HEELSAFE	600	600	PD-CI-5561	
NN-F\7	SURFACE INLET PIT - TYPE A	600 X 600 CLASS "D" STAINLESS STEEL HEELSAFE	600	600	PD-CI-5561	
NN-G\1	SURFACE INLET PIT - TYPE A	900 X 900 CLASS "D" STAINLESS STEEL HEELSAFE	900	900	PD-CI-5561	
NN-180\1A	SURFACE INLET PIT - TYPE A	900 X 900 CLASS "D" STAINLESS STEEL HEELSAFE	1200	900	PD-CI-5561	CONSTRUCT OVER EXISTING STORMWATER PIPE,
NN-180\2	SURFACE INLET PIT - TYPE A	900 X 900 CLASS "D" STAINLESS STEEL HEELSAFE	900	900	PD-CI-5561	
NN-180\3	SURFACE INLET PIT - TYPE A	900 X 600 CLASS "D" STAINLESS STEEL HEELSAFE	600	900	PD-CI-5561	
SW-A\2	EXISTING PIT	PAVER INFILL	-	-	-	CONSTRUCTED BY OTHERS
SW-Q\3	EXISTING PIT	PAVER INFILL	-	-	-	CONSTRUCTED BY OTHERS
SW-K\2	EXISTING PIT	PAVER INFILL	-	-	-	CONSTRUCTED BY OTHERS

NOTES:
1. ALL PITS TO ALIGN WITH PAVING PATTERN PROVIDED BY LANDSCAPE ARCHITECT (UNO).



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granted on the 18 May 2017

Signed [Signature]

Sheet No. 47 of 55

NOTE
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DARLING HARBOUR LIVE

REFERENCE MAP



NOTES:

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0 50 100 200 300 400 500mm

0 500 1000 1500 2000mm

1 : 5

1 : 20

REV	DESCRIPTION	DATE
06	RE-ISSUE FOR DA - LL COMMENTS INCLUDED	07/12/2016
05	RE-ISSUE FOR DA	02/12/2016
04	RE-ISSUE FOR DA	07/11/2016
03	RE-ISSUE FOR DA	01/11/2016
02	DRAFT - ISSUE FOR CLIENT REVIEW - NORTH PLOT ARCHITECTURAL CHANGES	07/10/2016
01	ISSUE FOR 100% TENDER	09/03/2016

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DRAWING TITLE

**STORMWATER DRAINAGE
PIT SCHEDULE**

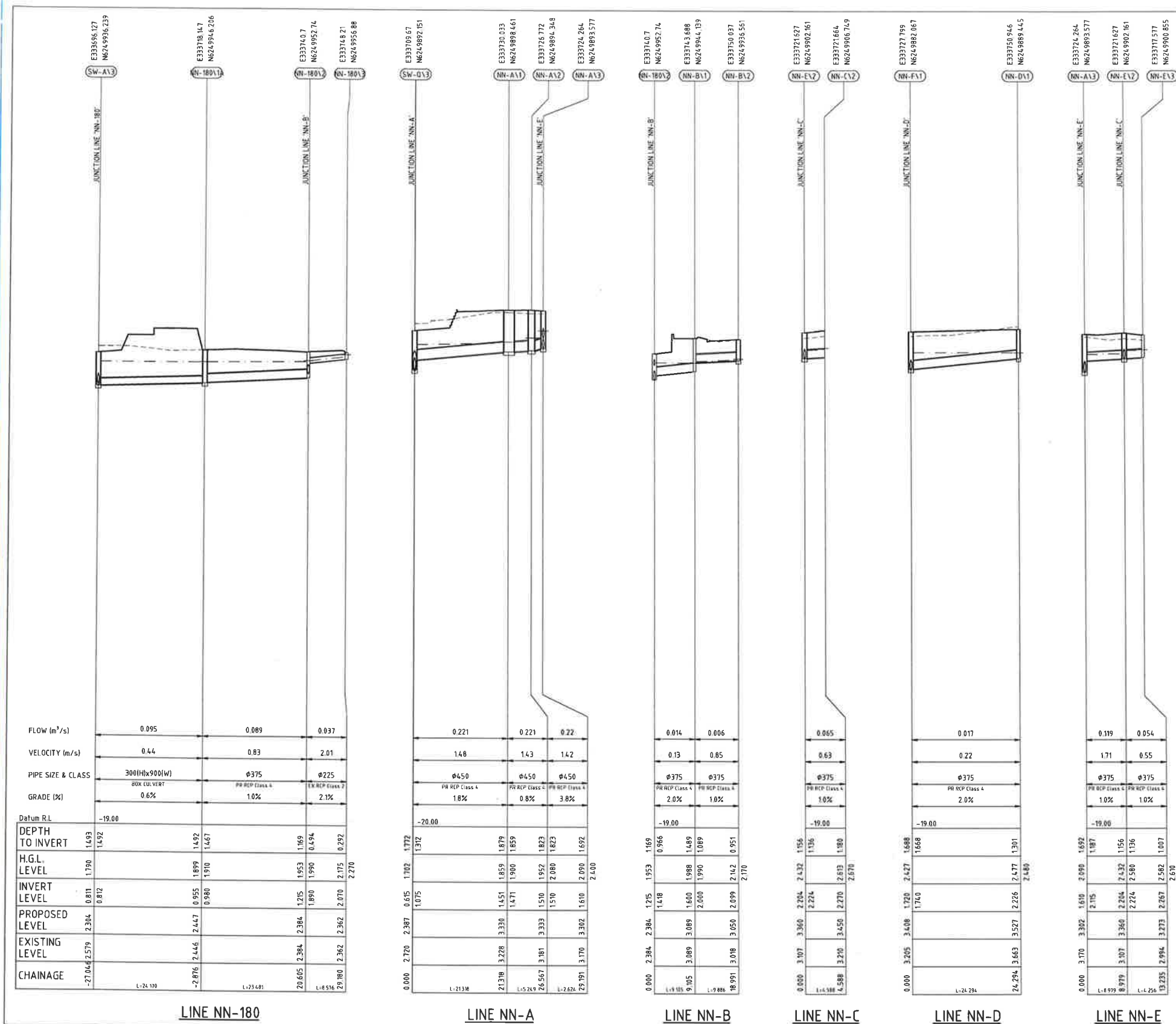
STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
AS SHOWN	CM	VN	DP	MK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5516	06		

Date Plotted: 7 Dec 2016 - 03:44PM File Name: F:\A004399E-CADIC-Civ\ND-Final\B-PDAIF-North Plot And Public Domain (PD-CI-5001 - PD-CI-5989)\PD-CI-5516-StormwaterDrainagePitSchedule.dwg

Original Sheet Size A1 - B41 x 594mm



NOTES

1. REFER DRAWINGS PD-CI-5301 FOR STORMWATER DRAINAGE PLANS.
2. LONGITUDINAL PROFILE SHOWN IS THE 20 YEAR ARI EVENT
3. DRAINS MODEL AA004399-PDA-DGN-161006_01DRN
4. CONDUIT LENGTHS ARE TO BE ADJUSTED TO ACCOMMODATE GPT AND RAINWATER TANK
5. REFER DRAWING PD-CI-5005, STORMWATER DRAINAGE NOTE 1(B) REGARDING SURFACE FLOWS
6. EXISTING DRAINAGE TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION

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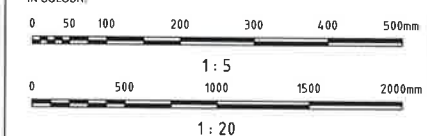
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REFERENCE MAP



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PROJECT

**SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE**

DRAWING TITLE

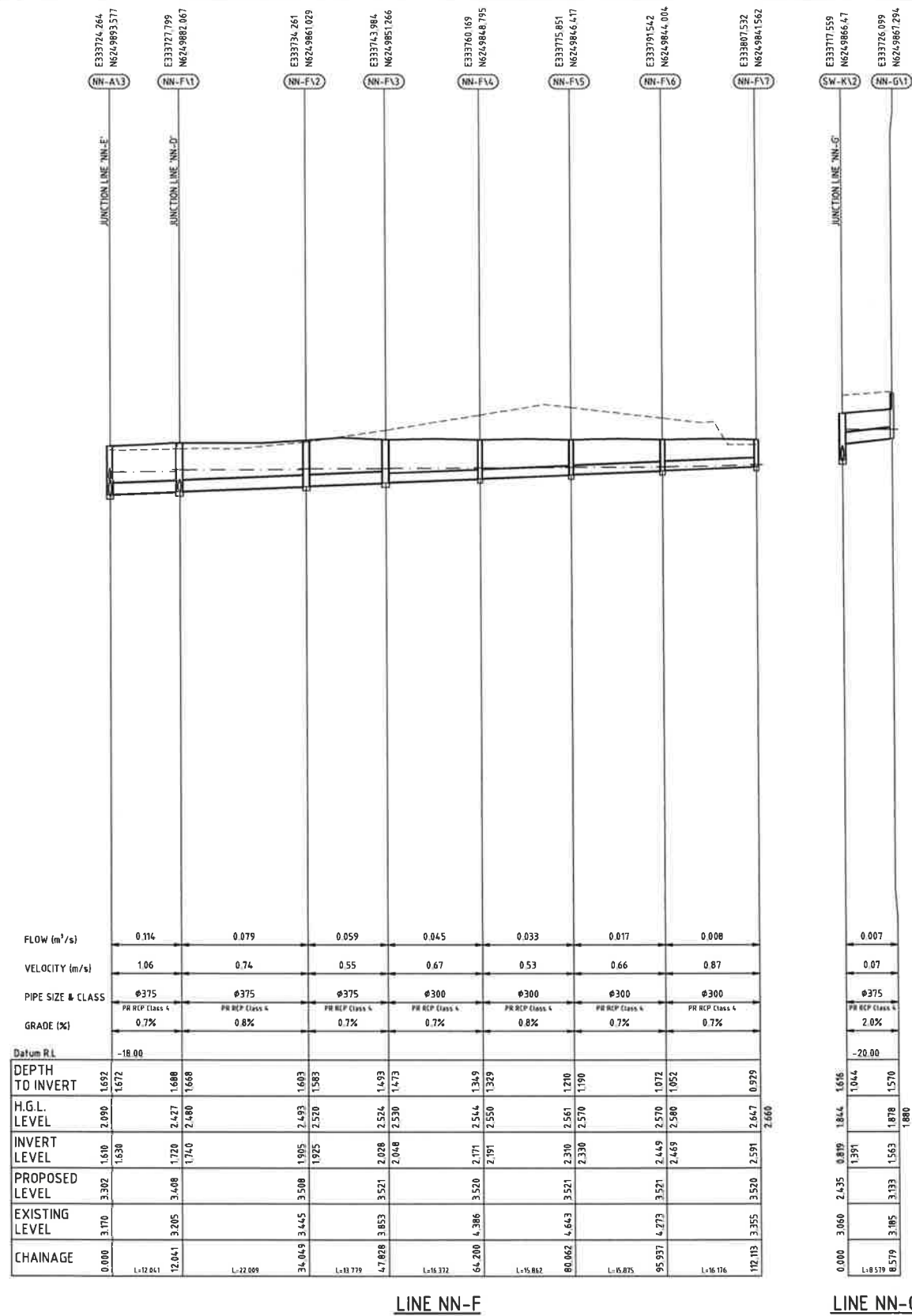
**STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 1**

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
AS SHOWN	CM	VN	DP	MK

PROJECT NUMBER	DRAWING NUMBER	REV
AA004399	PD-CI-5521	06

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NOTE

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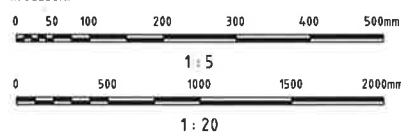
DARLING HARBOUR LIVE

REFERENCE MAP



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03	RE-ISSUE FOR DA	01/11/2016
02	DRAFT - ISSUE FOR CLIENT REVIEW - NORTH PLOT ARCHITECTURAL CHANGES	07/10/2016
01	ISSUE FOR 100% TENDER	08/03/2016

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PROJECT

SICEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE

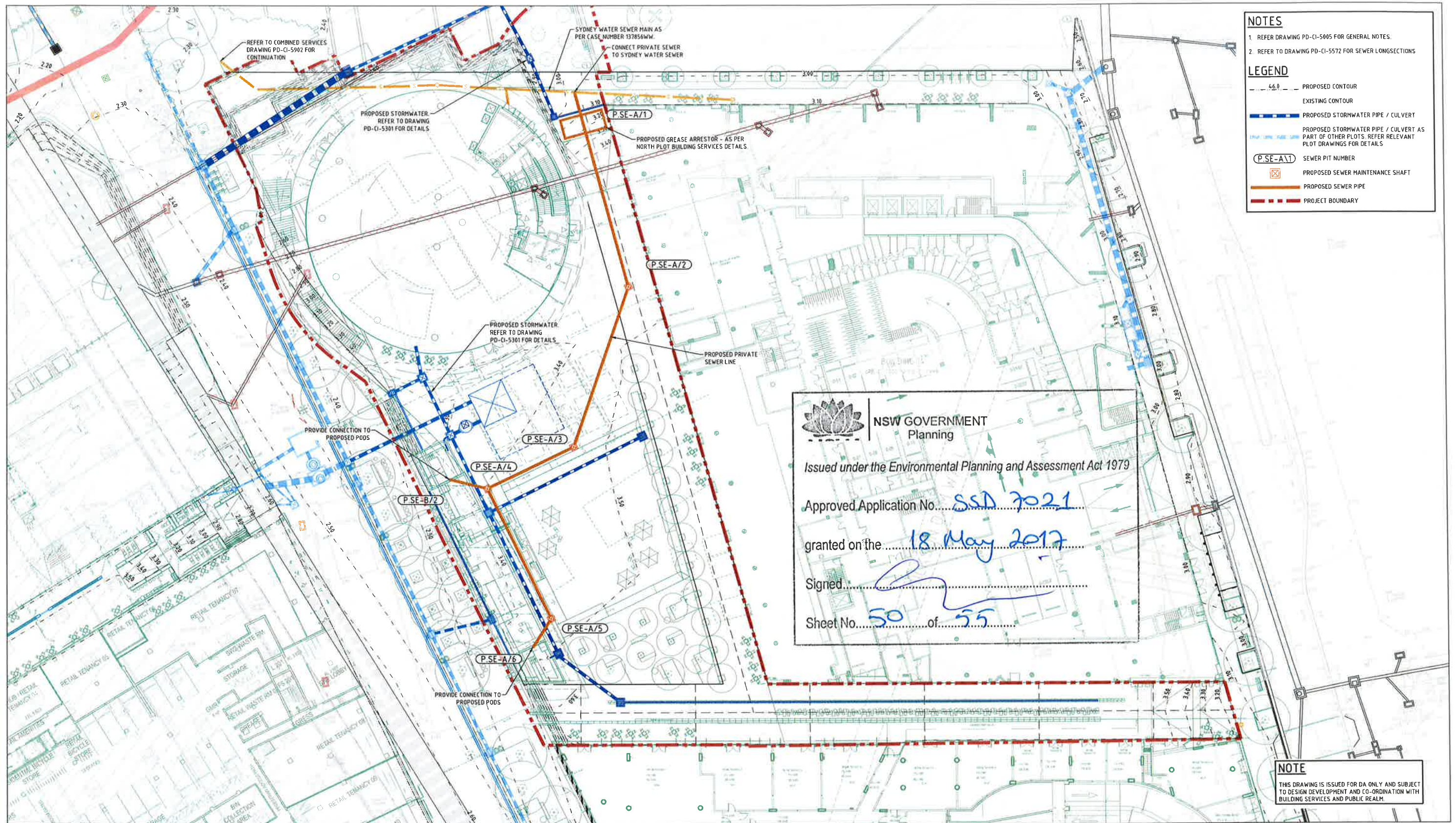
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STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 2

STATUS

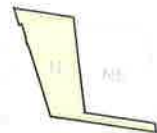
DEVELOPMENT APPLICATION

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PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5522	06		



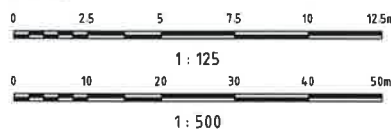
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REFERENCE MAP



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03	RE-ISSUE FOR DA	01/11/2016
02	DRAFT - ISSUE FOR CLIENT REVIEW - NORTH PLOT ARCHITECTURAL CHANGES	07/10/2016
01	ISSUE FOR 100% TENDER	09/03/2016

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PROJECT

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DARLING SQUARE
NORTH PLOT AND THE SQUARE

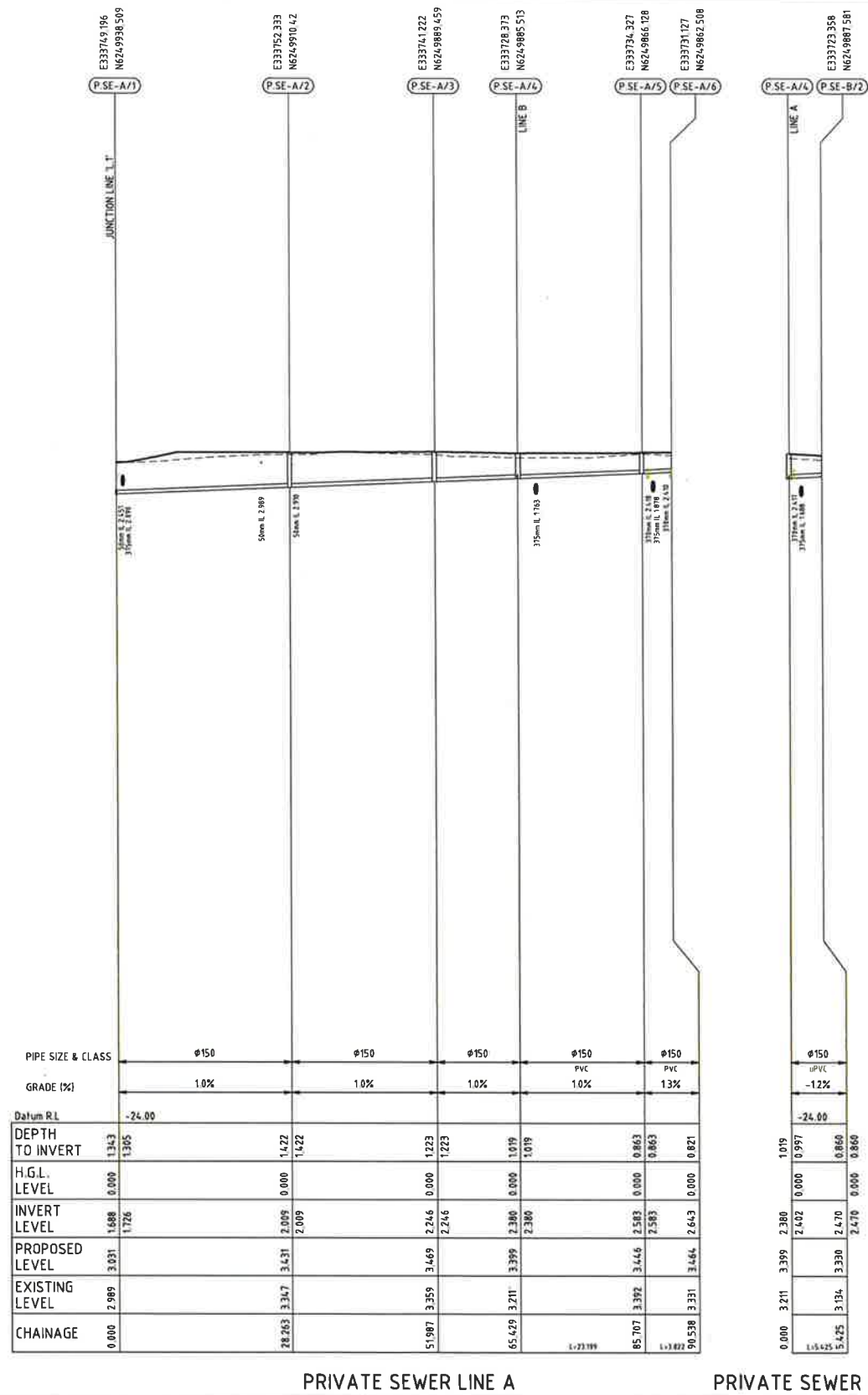
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SEWER DRAINAGE
PLAN

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
AS SHOWN	CM	PE	DP	MK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5571	06		



1 REFER DRAWINGS PD-CI-5571 FOR PRIVATE SEWER DRAINAGE PLANS.



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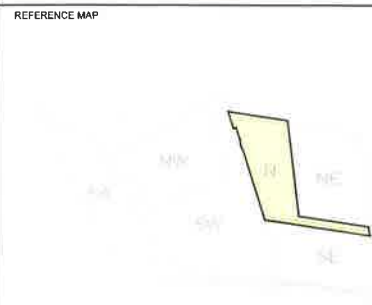
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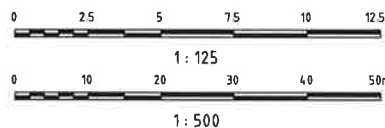
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DARLING HARBOUR LIVE



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03	RE-ISSUE FOR DA	01/11/2016
02	DRAFT - ISSUE FOR CLIENT REVIEW - NORTH PLOT ARCHITECTURAL CHANGES	07/10/2016
01	ISSUE FOR 100% TENDER	09/03/2016
REV	DESCRIPTION	DATE

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SICEEP - DARLING HARBOUR
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SEWER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 1

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
AS SHOWN	CM	PE	DP	MK
PROJECT NUMBER	DRAWING NUMBER			REV
AA004399	PD-C-5572			06

PIT	TYPE	COVER DETAILS	PIT SIZE (mm)	REFERENCE DRAWING	COMMENTS
P.SE-A\1	PIPE CONNECTION				CONNECT TO SYDNEY WATER SEWER SERVICE
P.SE-A\2	MAINTENANCE SHAFT	600 SQUARE CLASS "D" CAST IRON FRAME WITH PAVER INFILL	600 x 600		
P.SE-A\3	MAINTENANCE SHAFT	600 SQUARE CLASS "D" CAST IRON FRAME WITH PAVER INFILL	600 x 600		
P.SE-A\4	MAINTENANCE SHAFT	600 SQUARE CLASS "D" CAST IRON FRAME WITH PAVER INFILL	600 x 600		
P.SE-A\5	MAINTENANCE SHAFT	600 SQUARE CLASS "D" CAST IRON FRAME WITH PAVER INFILL	600 x 600		
P.SE-A\6	BUILDING CONNECTION	-	-	-	CONNECT TO PROPOSED POD
P.SE-B\2	BUILDING CONNECTION	-	-	-	CONNECT TO PROPOSED POD

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NOTE

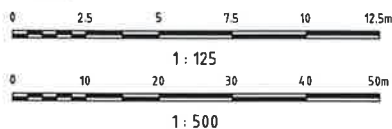
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DARLING HARBOUR LIVE

REFERENCE MAP

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PROJECT

SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE

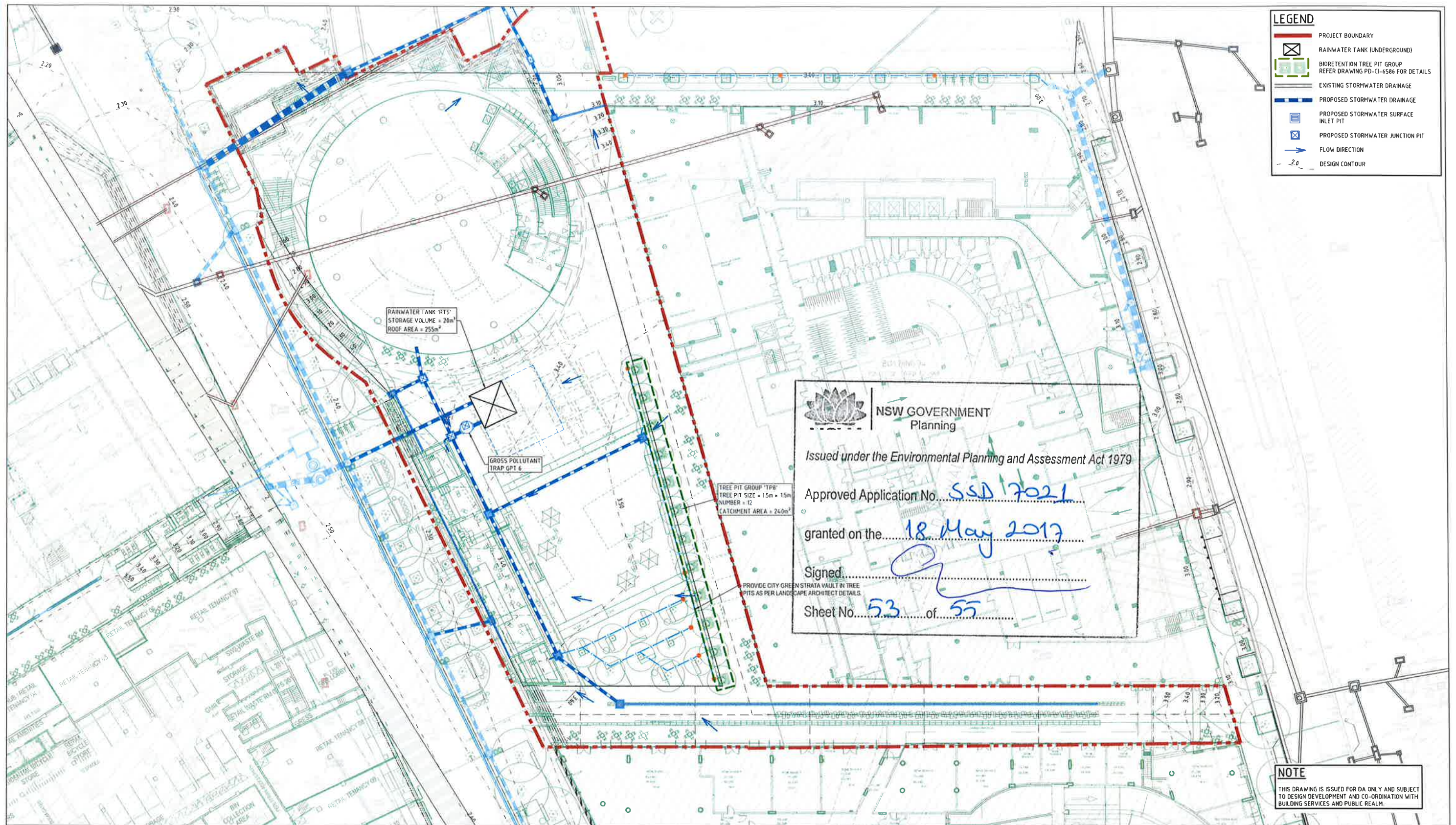
DRAWING TITLE

SEWER DRAINAGE
PIT SCHEDULE

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
AS SHOWN	CM	PE	DP	MK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5573	06		



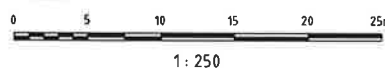
DARLING HARBOUR LIVE

REFERENCE MAP



NOTES:

- DO NOT SCALE FROM DRAWINGS. USE WRITTEN DIMENSIONS ONLY.
- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL COORDINATES TO MGA. ALL LEVELS TO AHD.
- ALL DIMENSIONS, COORDINATES AND LEVELS TO BE VERIFIED ON SITE BEFORE PROCEEDING WITH WORK. HYDER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS AND DRAWINGS.
- THIS DRAWING CONTAINS COLOUR AND MUST ONLY BE PRINTED OR COPIED IN COLOUR.



REV	DESCRIPTION	DATE
06	RE-ISSUE FOR DA - LL COMMENTS INCLUDED	07/12/2016
05	RE-ISSUE FOR DA	02/12/2016
04	RE-ISSUE FOR DA	07/11/2016
03	RE-ISSUE FOR DA	01/11/2016
02	DRAFT - ISSUE FOR CLIENT REVIEW - NORTH PLOT ARCHITECTURAL CHANGES	07/10/2016
01	ISSUE FOR 100% TENDER	09/03/2016

CLIENT



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MILLERS POINT, NSW 2000

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PROJECT

**SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE**

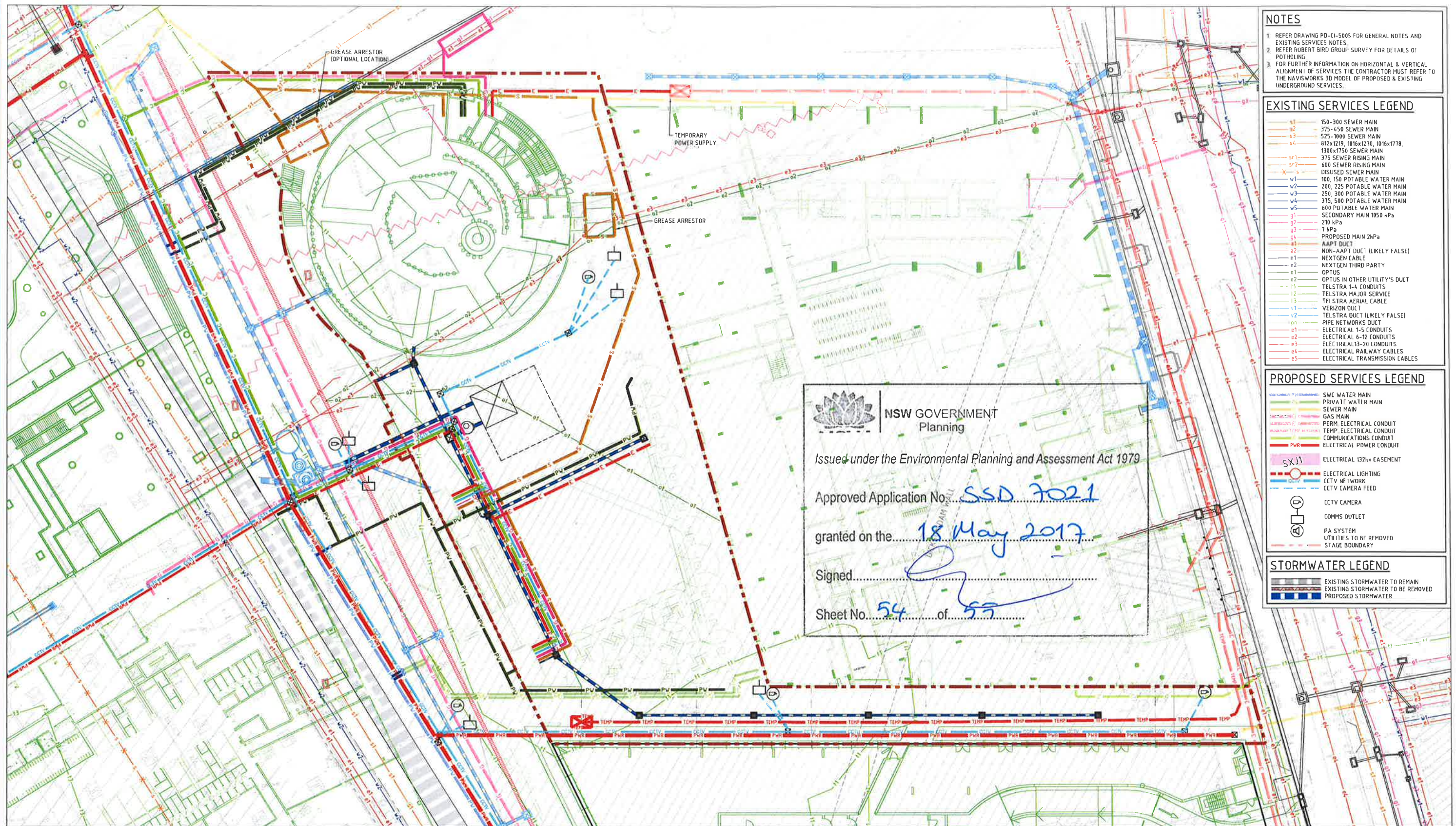
DRAWING TITLE

**WATER SENSITIVE URBAN DESIGN
STRATEGY PLAN**

STATUS

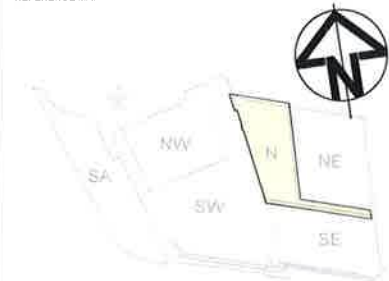
DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1:250	CM	DS	DP	MK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5581	06		



DARLING HARBOUR LIVE

REFERENCE MAP



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0 5 10 15 20 25m

1: 250

REV	DESCRIPTION	DATE
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

CLIENT

lendlease

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PROJECT

SICEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE

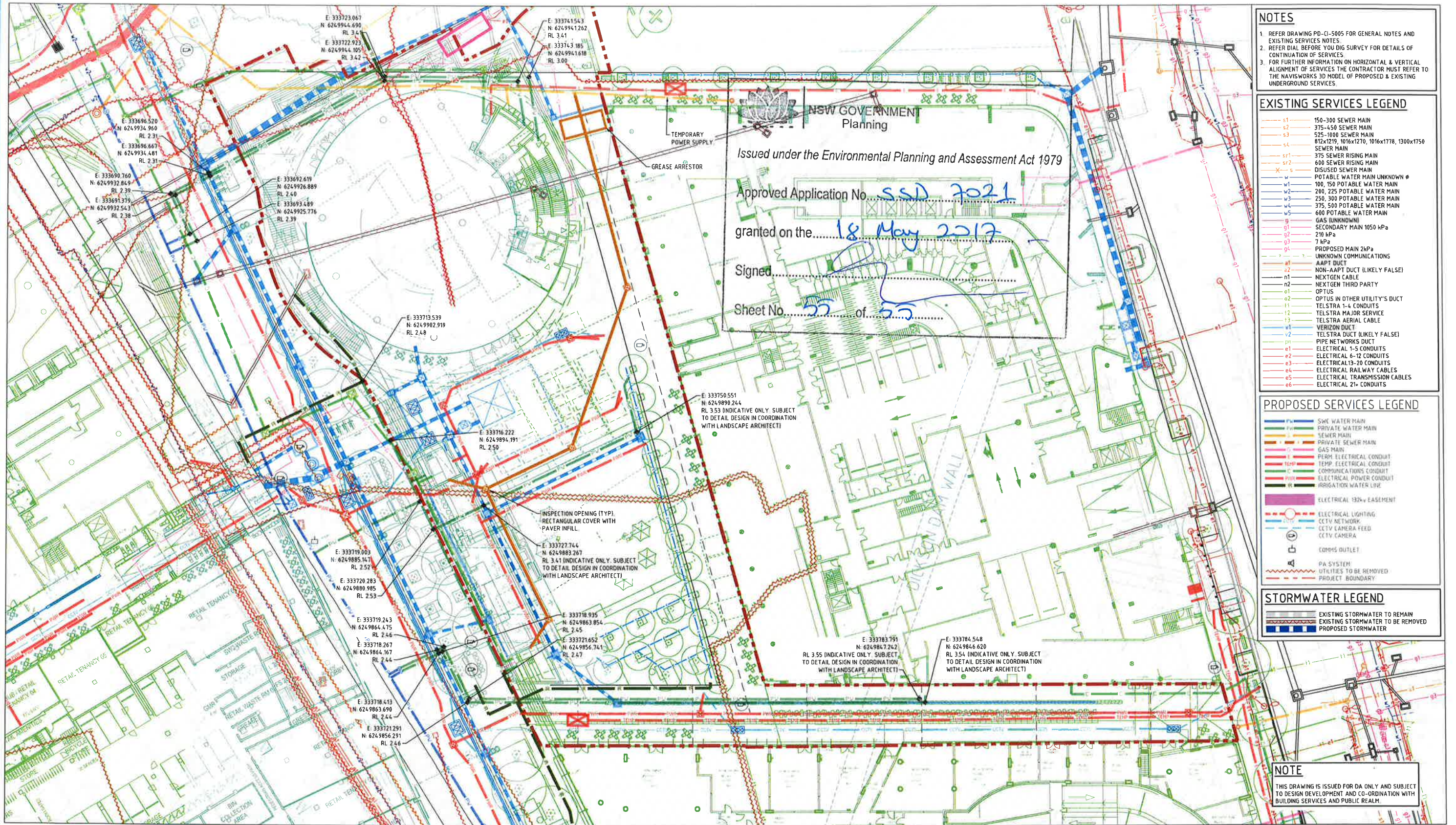
DRAWING TITLE

COMBINED SERVICES
PLAN
(DBYD)

STATUS

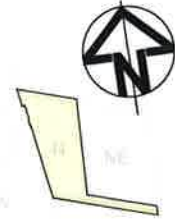
DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1: 250	LC	-	MBK	MBK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5901	02		



DARLING HARBOUR LIVE

REFERENCE MAP



NOTES:

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REV	DESCRIPTION	DATE
08	RE-ISSUE FOR DA - LL COMMENTS INCLUDED	07/12/2016
07	RE-ISSUE FOR DA	02/12/2016
06	RE-ISSUE FOR DA	07/11/2016
05	RE-ISSUE FOR DA	01/11/2016
04	DRAFT - ISSUE FOR CLIENT REVIEW - NORTH PLOT ARCHITECTURAL CHANGES	07/10/2016
03	ISSUE FOR 100% TENDER	08/03/2016
02	ISSUE FOR DEVELOPMENT APPLICATION	05/06/2015
01	DRAFT ISSUE FOR DEVELOPMENT APPLICATION	19/05/2015

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PROJECT

SICEEP - DARLING HARBOUR
DARLING SQUARE
NORTH PLOT AND THE SQUARE

DRAWING TITLE

COMBINED SERVICES
PLAN
(ROBERT BIRD GROUP)

STATUS

DEVELOPMENT APPLICATION

SCALE @ A1	DRAWN	DESIGNED	REVIEWED	APPROVED
1:250	CM	-	DP	MK
PROJECT NUMBER	DRAWING NUMBER	REV		
AA004399	PD-CI-5902	08		