Bank Street Park
Blackwattle Bay / Tjerruing

SSD-53386706

Appendix AC

Civil Plans (Enspire)

December 2023

INFRASTRUCTURE NSW

BANK STREET PARK, PYRMONT

DEVELOPMENT APPLICATION (SSD - 53386706)

DRAWING SCHEDULE

DRAWING NUMBER	DESCRIPTION
220067-00-DA-C01.01	COVER SHEET AND DRAWING SCHEDULE
220067-00-DA-C01.21	SPECIFICATION NOTES - SHEET 01
220067-00-DA-C01.22	SPECIFICATION NOTES - SHEET 02
220067-00-DA-C01.41	GENERAL ARRANGEMENT PLAN HARBOUR PARK
220067-00-DA-C01.42	GENERAL ARRANGEMENT PLAN BANK STREET
220067-00-DA-C02.01	DEMOLITION PLAN - SHEET 01
220067-00-DA-C02.02	DEMOLITION PLAN - SHEET 02
220067-00-DA-C03.01	EROSION AND SEDIMENTATION CONTROL PLAN - SHEET 01
220067-00-DA-C03.02	EROSION AND SEDIMENTATION CONTROL PLAN - SHEET 02
220067-00-DA-C03.21	EROSION AND SEDIMENTATION CONTROL DETAILS
220067-00-DA-C03.31	SEDIMENT BASIN PLAN AND DETAIL
220067-00-DA-C04.01	CUT AND FILL PLAN
220067-00-DA-C05.01	HARBOUR PARK SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 01
220067-00-DA-C05.02	HARBOUR PARK SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 02
220067-00-DA-C05.11	HARBOUR PARK PAVEMENT PLAN - SHEET 01
220067-00-DA-C05.12	HARBOUR PARK PAVEMENT PLAN - SHEET 02
220067-00-DA-C05.51	BANK STREET SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 01
220067-00-DA-C05.52	BANK STREET SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 02
220067-00-DA-C05.61	BANK STREET PAVEMENT, SIGNAGE AND LINEMARKING PLAN - SHEET 01
220067-00-DA-C05.62	BANK STREET PAVEMENT, SIGNAGE AND LINEMARKING PLAN - SHEET 02
220067-00-DA-C06.01	ROAD TYPICAL CROSS SECTIONS
220067-00-DA-C13.01	SITE SECTIONS
220067-00-DA-C14.01	DETAILS - SHEET 01
220067-00-DA-C14.02	DETAILS - SHEET 02
220067-00-DA-C14.03	DETAILS - SHEET 03
220067-00-DA-C20.01	STORMWATER CATCHMENT PLAN
220067-00-DA-C23.01	SAFETY IN DESIGN

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client

we are INSW Infrastructure New South Wales

Scale

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SCALE 1:2000 @A1

North

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Scale 1:2000

Date 23/08/2023

Size A1

Datum GDA94

Status

FOR INFORMATION ONLY

NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number 220067-00-DA-C01.01

Revision 2

DATE PLOTTED: 20 October 2023 11:45 AM BY - AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C01.01 COVER SHEET AND DRAWING SCHEDULE.dwg

SURVEY

1. ORIGIN OF SURVEY

PROJECT:	102-15G T02 [21]	DATE: 14/10/2022
CARRIED OUT BY:	CRAIG & RHODES	
SSM/PM:	SSM 32843	
E -	332363.188	
N -	6250919.54	
RL:	5.36	

2. THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN SUPPLIED BY REGISTERED SURVEYORS TO PROVIDE A BASIS FOR DESIGN. THE USE OF THIS SURVEY BASE DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
3. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT THE SUPERINTENDENT.
4. THE RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES ARE DIAGRAMMATIC ONLY. WHERE DISTANCES TO BOUNDARIES ARE CRITICAL THEY SHOULD BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION BY FURTHER SURVEY.

GENERAL NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK.
2. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL LEVELS ARE IN METERS (m), UNO. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).

EROSION AND SEDIMENT CONTROL

GENERAL INSTRUCTIONS

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, NSW OFFICE OF WATER, DEPARTMENT OF PLANNING, INDUSTRY AND ENVIRONMENT. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.
2. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED TO SUIT CONSTRUCTION STAGING AND WORK PRACTICES OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT.
   ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. LOCAL AUTHORITY REQUIREMENTS
   b. EPA REQUIREMENTS
   c. LANDCOM MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
   a. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   b. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
   c. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN, INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
   d. UNDERTAKEN SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSTREAM WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH SECTION 4 OF AS4970 "PROTECTION OF TREES ON DEVELOPMENT SITES" AND COUNCIL CONSENT CONDITIONS.

EARTHWORKS

1. AT THE COMMENCEMENT OF THE CUT AND FILLING OPERATIONS FOR BULK EARTHWORKS A GEOTECHNICAL ENGINEER IS TO VISIT THE SITE & CONFIRM THE SUITABILITY OF THE METHODOLOGY OF ACHIEVING THE REQUIRED BUILDING PLATFORMS AND COMPACTION REQUIREMENTS. SUBSEQUENTLY, THE HEAD CONTRACTOR IS TO CONFIRM, IN WRITING TO THE SUPERINTENDENT THAT THE METHODOLOGY APPROVED AT THE TIME OF THE GEOTECHNICAL ENGINEERS VISIT WAS MAINTAINED DURING ALL THE BULK EARTHWORKS PROCESS.
2. STRIP TOPSOIL, ORGANIC MATTER AND RUBBLE FROM CONSTRUCTION AREA TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE AS DIRECTED BY THE SUPERINTENDENT.
3. WHERE FILLING, STRUCTURAL SLABS OR PAVEMENTS ARE REQUIRED, PROOF ROLL THE EXPOSED NATURAL SURFACE WITH A MINIMUM OF TEN PASSES OF A SMOOTH DRUM NON-VIBRATING ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER) IN THE PRESENCE OF THE SUPERINTENDENT. THE CONTRACTOR IS TO ALLOW TO REMOVE AND REPLACE A PROVISIONAL QUANTITY OF UNSUITABLE SUBGRADE MATTER.
4. ALL SOFT, WET OR UNSUITABLE MATERIAL IS TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
5. EXCAVATED MATERIAL IS NOT TO BE USED AS STRUCTURAL FILL UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER.
6. THE CONTRACTOR IS TO PROVIDE CERTIFICATES VERIFYING THE QUALITY OF IMPORTED MATERIAL FOR THE SUPERINTENDENTS APPROVAL.
7. ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM LAYER THICKNESS TO COUNCIL SPECIFICATIONS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS1289 E3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 E5.1.1.1:

LOCATION	COMPACTION REQUIREMENT
UNDER BUILDING SLABS	98% SMDD
LANDSCAPED AREAS	95% SMDD
ROADS & PAVED AREAS	100% SMDD

8. FOR NON COHESIVE MATERIAL, COMPACT TO NOT LESS THAN
   UNDER ROAD 80% DENSITY
   OTHER AREA 75% DENSITY
9. THE CONTRACTOR IS TO ALLOW FOR COMPACTION TESTING BY NATA REGISTERED LABORATORY FOR PLATFORMS AND FILL LAYERS IN ACCORDANCE WITH THE LATEST VERSION OF AS3798 - FOR TYPE 1 OPERATIONS (MINIMUM 3 TESTS PER LAYER).
10. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN:
    A. 1 TEST PER 200m^3 OF FILL PLACED PER LAYER OF FILL
    B. 3 TESTS PER VISIT
    C. 1 TEST PER 1000m^2 OF EXPOSED SUBGRADE
11. TESTING SHALL BE "LEVEL 1" UNDERTAKEN IN ACCORDANCE WITH AS 3798.
12. WHERE TEST RESULTS ARE BELOW THE SPECIFIED COMPACTION, RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION STANDARD IS ACHIEVED.
13. ALLOW FOR EXCAVATION IN ALL MATERIALS AS FOUND U.N.O. NO ADDITIONAL PAYMENTS WILL BE MADE FOR EXCAVATION IN WET OR HARD GROUND.
14. WHERE THERE IS INSUFFICIENT EXCAVATED MATERIAL SUITABLE FOR FILLING OR SUBGRADE REPLACEMENT, THE CONTRACTOR IS TO ALLOW TO IMPORT FILL. IMPORTED FILL SHALL COMPLY WITH THE FOLLOWING:
    A. MAXIMUM SIZE 50mm. PASSING 75 MICRON SIEVE (<25%).
    B. PLASTICITY INDEX BETWEEN 2-15% AND CBR>8.
    C. FREE FROM ORGANIC AND PERISHABLE MATTER.
15. THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED AT THEIR COST.
16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE AND MAINTAIN THE INTEGRITY OF ALL SERVICES, CONDUITS AND PIPES DURING CONSTRUCTION, SPECIFICALLY DURING THE BACKFILLING AND COMPACTION PROCEDURE. ANY AND ALL DAMAGE TO NEW OR EXISTING SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST.
17. PROTECT FINAL SURFACE WITH EITHER A TEMPORARY LOOSE SOIL LAYER OR A GRANULAR SUB-BASE LAYER TO PREVENT DRYING OUT PRIOR TO ON-GROUND SLAB CONSTRUCTION.

SITEWORKS

1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS, SPECIFICATIONS AND AUSTRALIAN STANDARDS. CONFLICTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR DIRECTION.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT.
3. THE CONTRACTOR IS TO DESIGN, OBTAIN APPROVALS AND CARRY OUT REQUIRED TEMPORARY TRAFFIC CONTROL PROCEDURES DURING CONSTRUCTION IN ACCORDANCE WITH TINSW AND LOCAL AUTHORITY REGULATIONS AND REQUIREMENTS.
4. THE CONTRACTOR IS TO OBTAIN ALL AUTHORITY APPROVALS AS REQUIRED.
5. RESTORE ALL PAVED, COVERED, GRASSED AND LANDSCAPED AREAS TO THEIR ORIGINAL CONDITION ON COMPLETION OF WORKS.
6. ON COMPLETION OF ANY TRENCHING WORKS, ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL, GRASSED AREAS AND ROAD PAVEMENTS.
7. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO LODGMENT OF TENDER AND ON SITE WORKS. THE PRICE AS TENDERED SHALL BE INCLUSIVE OF ALL WORKS SHOWN ON THE TENDER PROJECT DRAWINGS. ADDITIONAL PAYMENTS FOR WORKS SHOWN ON THE TENDER PROJECT DRAWINGS WILL NOT BE APPROVED.
9. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS AND SPECIFICATIONS, AND ANY OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT OF THE SUBJECT SITE.
10. THESE PLANS SHALL BE READ IN CONJUNCTION WITH ALL APPROVED DRAWINGS AND SPECIFICATIONS PREPARED BY OTHER PROJECT CONSULTANTS.
11. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL LEVELS ARE IN METRES (m), UNO. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
12. IN CASE OF DOUBT OR DISCREPANCY REFER TO THE SUPERINTENDENT FOR CLARIFICATION OR CONFIRMATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. OTHERWISE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REMEDIATION WORKS.
13. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
14. THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
15. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO ALL BUILDINGS ADJACENT THE WORKS IS NOT DISRUPTED.
16. WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
17. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
18. ALL VARIATIONS TO SPECIFIED PRODUCTS OR DESIGNS SHALL BE REFERRED TO THE DESIGN ENGINEER IN WRITING FOR APPROVAL.
19. EPA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO REGARDING THE LEVEL OF NOISE AND WORKING HOURS, TO ENSURE THAT RESIDENTS AND OTHER APPLICABLE NEIGHBOURS TO THE SITE ARE NOT DISTURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED.

STORMWATER DRAINAGE

1. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 AND AS/NZS 3500 3.2.
2. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC (CLASS SN4) WITH SOLVENT WELDED JOINTS.
3. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE MIN CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
4. ALL PIPES ARE TO BE LAID AT (min) 1.0% GRADE (UNO)
5. ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. REFER TO BEDDING SUPPORT TYPE.
6. PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.
7. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
8. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE
9. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
10. WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 TO DETERMINE THE APPROPRIATE PIPE CLASS. ANY CHANGES IN PROPOSED PIPE CLASS SHALL BE SUBMITTED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO INSTALLATION.
11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
12. PRECAST PITS MAY BE USED SUBJECT TO WRITTEN APPROVAL BY THE SUPERINTENDENT.
13. ALL PIPE PENETRATIONS (EXISTING, IN-SITU AND PRECAST) ARE TO BE FINISHED FLUSH WITH THE INTERNAL PIT WALL AND PROPERLY SEALED WITH CEMENT RENDER. MASS CONCRETE BENCHING IS TO BE INSTALLED TO MATCH THE OUTLET PIPE INVERT LEVEL AND A LOCKABLE HINGED GRATE AND FRAME WITH CONCRETE SURROUND INSTALLED U.N.O.
14. COVERS
    A. USE HOT DIPPED GALVANISED GRATES AND CONCRETE FILLED COVERS WITH HINGES AND HOLD DOWN BOLTS COMPLYING WITH AS3996 AND OTHER RELEVANT AUSTRALIAN AND COUNCIL STANDARDS.
    B. ALL COVERS AND GRATES TO BE POSITIONED IN A FRAME AND MANUFACTURED AS A UNIT.
    C. ALL COVERS AND GRATES TO BE FITTED WITH POSITIVE COVER LIFTING KEYS.
    D. OBTAIN SUPERINTENDENT'S APPROVAL FOR THE USE OF CAST IRON SOLID COVERS AND GRATES. CAST IRON SOLID COVERS (IF APPROVED) TO CONSIST OF CROSS-WEBBED, CELLULAR CONSTRUCTION WITH THE RIBS UPPERMOST TO ALLOW INFILLING WITH CONCRETE. INSTALL POSITIVE COVER LIFTING KEYS AND PLASTIC PLUGS.
    E. UNLESS DETAILED OR SPECIFIED OTHERWISE COVERS AND GRATES TO BE CLASS "D" IN VEHICULAR PAVEMENTS AND CLASS "B" ELSEWHERE.
16. NOTE THAT THE PIT COVER LEVEL NOMINATED IN GUTTERS ARE TO THE INVERT OF THE GUTTER WHICH IS 40mm LOWER THAN THE PAVEMENT LEVEL AT LIP OF GUTTER.
17. Ø100mm SUB-SOIL DRAINAGE LINES SHALL BE CONNECTED TO A STORMWATER DRAINAGE PIT AND PROVIDED IN THE FOLLOWING LOCATIONS:
    A. ADJACENT ALL TRAFFICKED AND CARPARK PAVEMENT AREAS (BEHIND KERB);
    B. ALL PLANTER AND TREE BEDS PROPOSED ADJACENT TO PAVEMENT AREAS;
    C. BEHIND RETAINING WALLS (IN ACCORDANCE WITH DRAWINGS);
    D. BELOW ALL TRAFFICABLE DISH DRAINS;
    E. ALL OTHER AREAS SHOWN ON THE DRAWINGS.
18. THE CONTRACTOR SHALL INSTALL FLUSHING POINTS TO ALL SUBSOIL DRAINAGE LINES AND DOWNPIPE LINES AS SPECIFIED ON DRAWINGS, AT MAXIMUM CENTRES TO COUNCIL SPECIFICATION AND AT ALL UPSTREAM ENDPOINTS.
19. PROVIDE 3.0m LENGTH OF Ø100 SUBSOIL DRAINAGE PIPE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC, TO THE UPSTREAM SIDE OF STORMWATER PITS, LAID IN STORMWATER PIPE TRENCHES AND CONNECTED TO THE DRAINAGE PIT.
20. SUBSOIL TRENCHES SHALL BE BACKFILLED WITH SINGLE SIZED 10mm AGGREGATE WRAPPED IN NON-WOVEN GEOTEXTILE FABRIC. SUBSOIL TRENCHES BELOW TRAFFICABLE PAVEMENTS SHALL BE BACKFILLED WITH NO FINES CONCRETE WRAPPED IN NON-WOVEN GEOTEXTILE FABRIC, U.N.O.
21. ALL RECTANGULAR HOLLOW SECTIONS (RHS) SPECIFIED AS STORMWATER CONDUITS TO BE HOT DIPPED GALVANISED AND HAVE (MINIMUM) 5mm WALL THICKNESS.

STORMWATER DRAINAGE (CONT.)

22. ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.
23. ELECTRICAL PITS ARE TO DRAIN TO THE NEAREST STORMWATER PIT WITH VERMIN PROOF NON-RETURN FLAP VALVES AS REQUIRED. THE CONTRACTOR IS TO CONFIRM WITH THE ELECTRICAL DESIGNER AS PART OF THE TENDER.
24. THE CONTRACTOR SHALL ENSURE AND PROTECT THE INTEGRITY OF ALL STORMWATER PIPES DURING CONSTRUCTION. ANY AND ALL DAMAGE TO THESE PIPES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT, AND AT NO EXTRA COST.
25. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
26. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.
27. ANY VARIATION TO SPECIFIED PRODUCTS OR DETAILS SHALL BE REFERRED TO THE SUPERINTENDENT FOR APPROVAL.

SIGNAGE AND LINE MARKING

1. LINE MARKING AND PAINT SHALL BE IN ACCORDANCE WITH AS 2700 AND AS 4049 AND TINSW SPECIFICATIONS.
2. ALL PAINT SHALL BE APPLIED BY MECHANICAL SPRAYER.
3. LINE MARKING SHALL BE SPOTTED OUT AND APPROVED PRIOR TO SPRAYING.
4. PAINT SHALL BE APPLIED AT A WET THICKNESS OF BETWEEN 0.35mm TO 0.40mm.
5. TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED.ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS.
6. REMOVE ALL REDUNDANT PAVEMENT MARKING AS REQUIRED.
7. PROVIDE RETRO-REFLECTORISED PAVEMENT MARKERS TO COUNCIL AND TINSW. REQUIREMENTS.
8. ALL LINEMARKING TO BE WHITE IN COLOUR WITH THE EXCEPTION OF C2 AND C3 LINES ARE TO BE YELLOW.
9. CARPARK LINEMARKING PAINT SHALL BE TYPE 3, CLASS A, AND THE COLOUR SHALL BE WHITE AND NOT DISCOLOURED BY BITUMEN. EACH LINE SHALL BE 80mm WIDE.
10. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE TINSW. REGULATORY SIGNS MANUAL.
11. RELOCATE OR REMOVE EXISTING SIGNS AS REQUIRED.
12. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale

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Project: BANK STREET PARK, PYRMONT

Title: SPECIFICATION NOTES

SHEET 01

Scale: NTS

Date: 23/08/2023

Size: A1

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Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C01.21

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DATE PLOTTED: 20 October 2023 11:45 AM BY - AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C01.21-C01.22 SPECIFICATION NOTES.dwg

EXISTING SERVICES

1. ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA, THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
2. CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER ALL LIVE SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.
3. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING SERVICES THAT ARE TO BE RETAINED IN THE VICINITY OF THE PROPOSED WORKS. ANY AND ALL DAMAGE TO THESE SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT, AND AT NO EXTRA COST.
4. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR ADJUSTMENT (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS.
5. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS UNLESS DIRECTED OTHERWISE ON THE DRAWINGS OR BY THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
7. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THE PROGRAM FOR THE RELOCATION AND/OR CONSTRUCTION OF TEMPORARY SERVICES AND FOR ANY ASSOCIATED INTERRUPTION OF SUPPLY.
8. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
9. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION A THOROUGH SEARCH OF ALL SERVICE AUTHORITIES SHOULD BE MADE TO DETERMINE THE POSSIBLE LOCATION OF ANY FURTHER UNDERGROUND SERVICES.
10. AUTHORITY PLANS GENERALLY SHOW ONLY THE PRESENCE OF CABLES AND PLANT AND DO NOT WARRANT OR GUARANTEE THAT SUCH PLANS ARE ACCURATE. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR EXISTING SERVICES AND PLANT. BEFORE USING MACHINE EXCAVATORS SERVICES MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION.
11. THE CONTRACTOR IS TO UNDERTAKE A DIAL-BEFORE-YOU-DIG SEARCH PRIOR TO ANY EXCAVATION AND MAINTAIN A CURRENT SET ON-SITE DURING EXCAVATION WORKS.
12. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE. ENSPIRE SOLUTIONS CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
13. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

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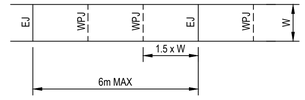
PAVEMENTS

1. ALL PAVEMENT MATERIALS SHALL COMPLY WITH CURRENT TINSW SPECIFICATIONS. PROVIDE MECHANICAL ANALYSIS FOR EACH BATCH OF PAVEMENT MATERIAL TO ENSURE CONFORMITY.
2. COMPACTION STANDARDS:
   A) BASE: 98% MODIFIED MAXIMUM DRY DENSITY
   B) SUBBASE: 95% MODIFIED MAXIMUM DRY DENSITY
3. THE CONTRACTOR SHALL CONFIRM THE DESIGN CBR WITH A MINIMUM OF 3 TESTS TAKEN AT SUBGRADE LEVEL. WHERE DISCREPANCY IS FOUND, CONTACT THE SUPERINTENDENT.
4. ALLOW FOR COMPACTION TESTING BY NATA REGISTERED LABORATORY FOR: BASE LAYER, SUBBASE LAYER, SUBGRADE IN ACCORDANCE WITH THE LATEST VERSION OF AS3798 FOR PAVEMENTS. ALLOW FOR AT LEAST TWO SUCCESSFUL COMPACTION TESTS IN EACH LAYER.
5. MATCH NEW PAVEMENT LAYERS NEATLY AND FLUSH WITH EXISTING WHERE REQUIRED.
6. KEY NEW BASE AND SUBBASE LAYERS INTO EXISTING WITH 150mm WIDE STEPS. ASPHALTIC CONCRETE WEARING COURSE IS TO EXTEND 150mm (MIN) PAST BASECOURSE INTERFACE.
7. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
8. ALL ASPHALTIC CONCRETE (AC) WORK TO BE PREPARED AND CARRIED OUT IN ACCORDANCE WITH GOOD ASPHALTIC PAVING PRACTICE AS DESCRIBED IN AS2734 "ASPHALT (HOT-MIXED) PAVING - GUIDE TO GOOD PRACTICE" AND CURRENT TINSW SPECIFICATIONS (R116).
9. WHERE NOMINATED, THE CONTRACTOR SHALL ALLOW FOR ALL COMPONENTS OF PROPRIETARY JOINTING SYSTEMS INCLUDING FIXING, TEMPLATES & PEGGING TO ENSURE THAT ALL DOWEL BARS REMAIN IN THE CORRECT ALIGNMENT AND POSITION.
10. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TINSW. SPECIFICATION 3051, COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER $50m^3$ OF BASECOURSE MATERIAL PLACED.
11. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TINSW. SPECIFICATION 3051, AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER $50m^3$ OF SUB-BASE COURSE MATERIAL PLACED.
12. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (11) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH TINSW. SPECIFICATION 3051 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE COUNCIL ENGINEER.
13. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.

PAVEMENT JOINTS

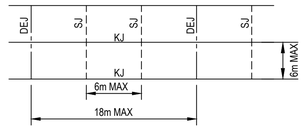
PEDESTRIAN PAVEMENTS

1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS U.N.O ON THE DESIGN DRAWINGS.
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
5. TYPICAL PEDESTRIAN PAVEMENT JOINT DETAIL.



VEHICULAR PAVEMENTS

6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS U.N.O ON THE DESIGN DRAWINGS.
7. TIED KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED LONGITUDINALLY AT A MAX OF 6.0m CENTRES
8. SAWN JOINTS SHOULD GENERALLY BE LOCATED LATERALLY AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 18.0m CENTRES
9. TYPICAL VEHICULAR PAVEMENT JOINT DETAIL.



10. PROVIDE 10mm EXPANSION FOAM BETWEEN NEW CONCRETE WORKS AND EXISTING STRUCTURES.
11. LOCAL AUTHORITY REQUIREMENTS SHALL TAKE PRECEDENCE WITHIN THE PUBLIC ROAD RESERVE.
12. DOWELS TO BE PLACED ON PROPRIETARY CRADLES TO ENSURE CORRECT SPACING AND ALIGNMENT.

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2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale:

North:

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Project: BANK STREET PARK, PYRMONT

Title: SPECIFICATION NOTES

SHEET 02

Scale: NTS

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
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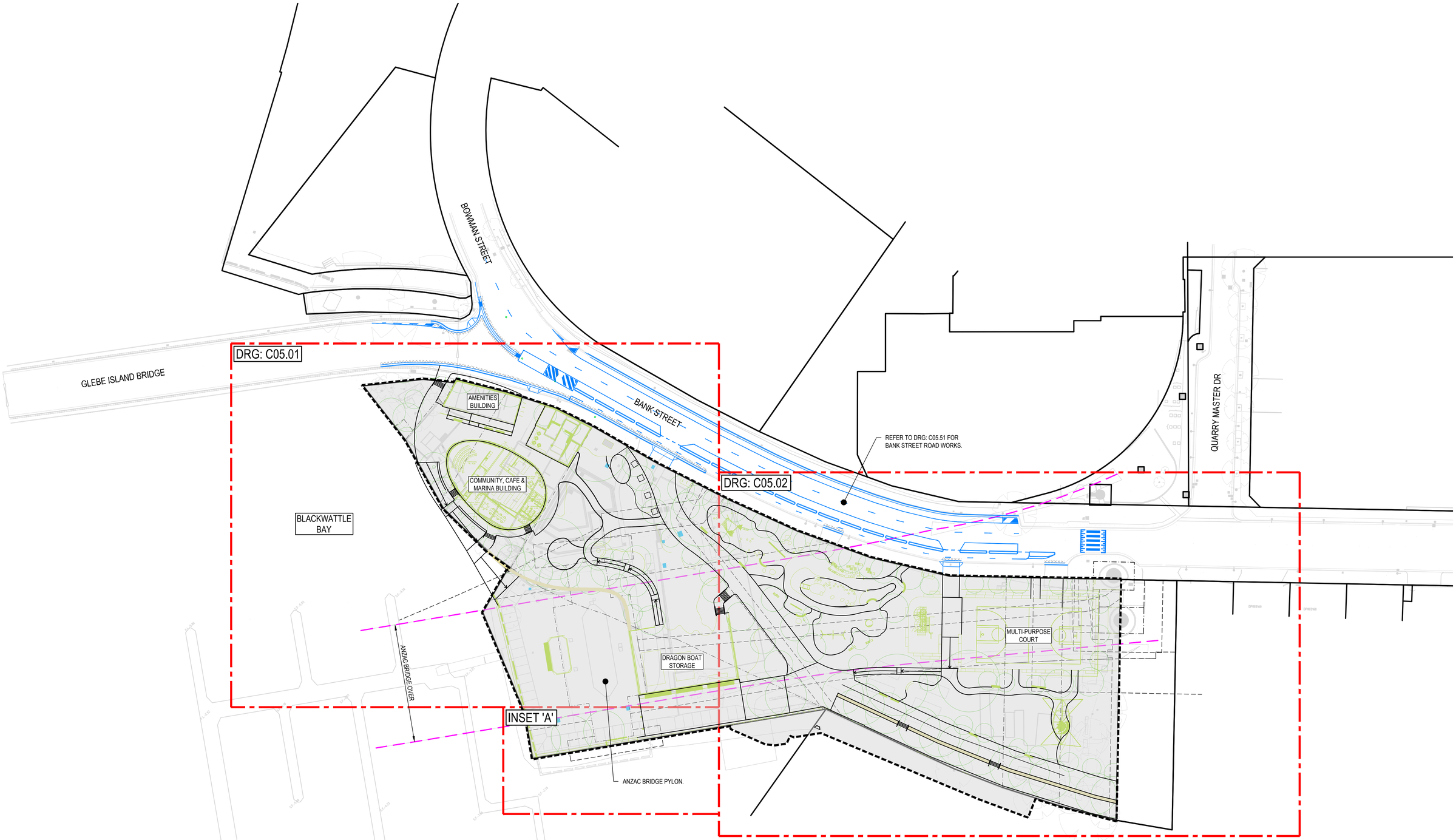
Project Number/Drawing Number: 220067-00-DA-C01.22

Revision: 2

DATE PLOTTED: 20 October 2023 11:45 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C01.21-C01.22 SPECIFICATION NOTES.dwg



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Scale: 0 10 20 30 40 50m — SCALE 1:500 @A1

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Project: BANK STREET PARK, PYRMONT

Title: GENERAL ARRANGEMENT PLAN HARBOUR PARK

Scale: 1:500

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
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Project Number/Drawing Number: 220067-00-DA-C01.41

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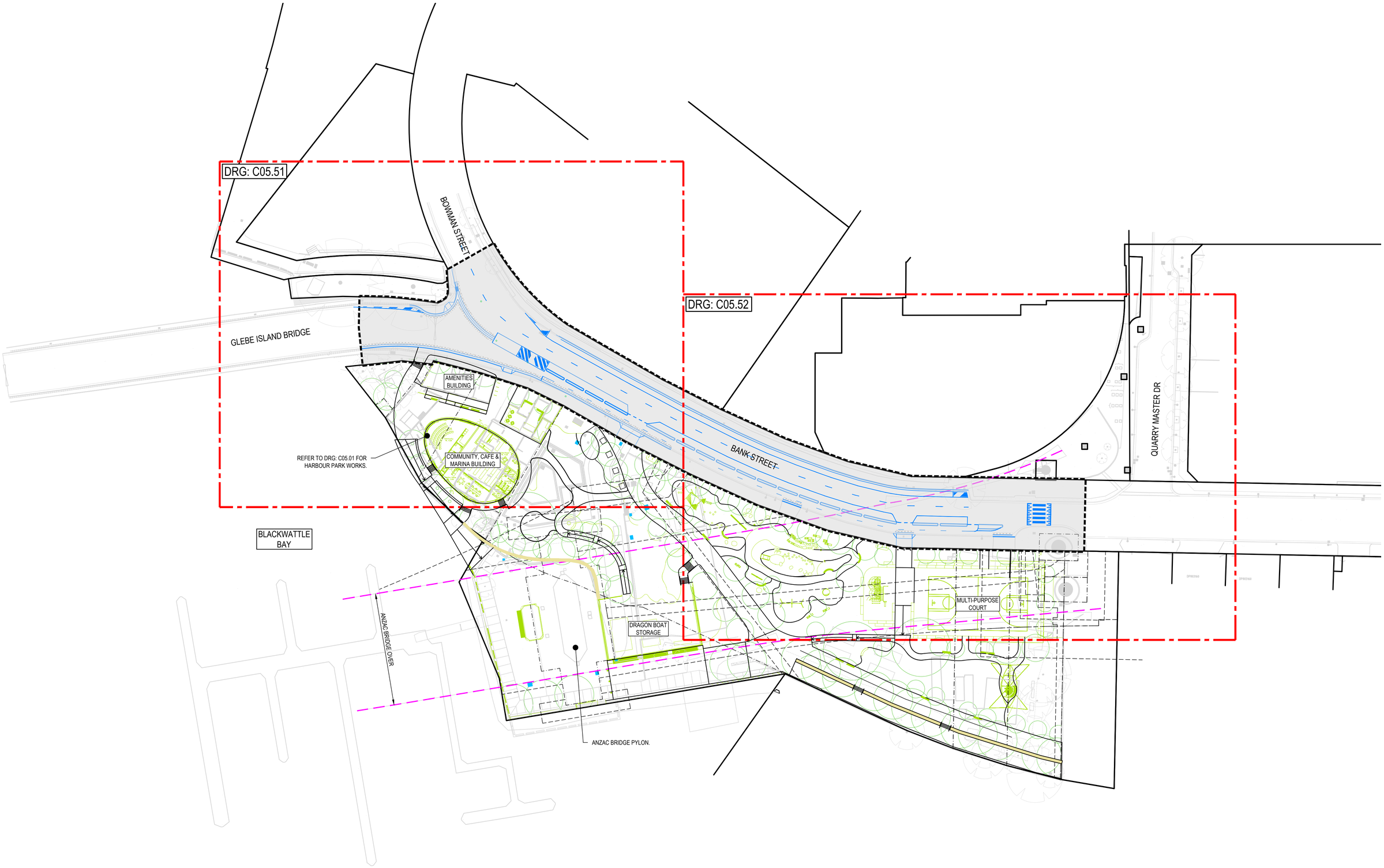

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Client: we are insw Infrastructure New South Wales

Scale: 0 10 20 30 40 50m — SCALE 1:500 @A1

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Project: BANK STREET PARK, PYRMONT

Title: GENERAL ARRANGEMENT PLAN BANK STREET

Scale: 1:500

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
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Project Number/Drawing Number: 220067-00-DA-C01.42

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DATE PLOTTED: 20 October 2023 11:46 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C01.42 GENERAL ARRANGEMENT PLAN - BANK STREET.dwg

LEGEND

- SITE BOUNDARY
- EXISTING EASEMENT
- STRUCTURE TO BE DEMOLISHED
- TREE TO BE REMOVED
- TREE TO BE RETAINED

EXISTING UTILITIES

- STORMWATER
- ELECTRICAL
- COMMUNICATIONS
- SEWER
- GAS
- WATER

EASEMENTS:

'A' - EASEMENT FOR WATER SUPPLY 1.8 WIDE (D.P.882897) LIMITED IN STRATUM
'B' - EASEMENT TO DRAIN WATER VARIABLE WIDTH (D.P.882897) LIMITED IN STRATUM
'C' - EASEMENT FOR MAINTENANCE VARIABLE WIDTH (D.P.1041963 & 9420339)
'D' - EASEMENT TO DRAIN WATER 3 WIDE (D.P.1041963 & 9420339) LIMITED IN STRATUM
'E' - EASEMENT FOR ELECTRICITY 3 & 4.265 WIDE (D.P.1041963) LIMITED IN STRATUM
'F' - EASEMENT TO DRAIN WATER 1.735 WIDE (D.P.1041963) LIMITED IN STRATUM
'G' - EASEMENT TO DRAIN WATER 1.735 WIDE (D.P.830160) LIMITED IN STRATUM
'H' - EASEMENT FOR FOOTINGS & SUPPORT (D.P.803160) LIMITED IN STRATUM
'I' - PROPOSED EASEMENT FOR ELECTRICITY & OTHER PURPOSES 5 & 6.5 WIDE (D.P.1202991)
'J' - PROPOSED EASEMENT FOR ELECTRICITY & OTHER PURPOSES OVER EXISTING LINE
OF PIPE (APPROXIMATE POSITION) (D.P.120299)
'K' - EASEMENT FOR PUBLIC ACCESS VARIABLE WIDTH (D.P.1267667)
'KB' - DENOTES EASEMENT 'K' IS UNLIMITED IN HEIGHT AND DEPTH
'KC' - DENOTES EASEMENT 'K' COMPRISES THE STRATUM EXTENT OF LOT 20 D.P.803159 ONLY
'KD' - DENOTES EASEMENT 'K' COMPRISES THE STRATUM EXTENT OF LOT 19 D.P.803159 ONLY
'KE' - EASEMENT 'K' LIMITED IN STRATUM TO BELOW STRATUM PLANE RL8.0
'L' - EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.31 WIDE (D.P.1267666)

NOTE:

1. EXISTING ELECTRICAL HV ASSETS TO BE RETAINED. EARTHWORKS OVER THESE ASSETS TO BE CARRIED OUT IN ACCORDANCE WITH AUTHORITY (AUSGRID) GUIDELINES, SUBJECT TO AUTHORITY CONSENT. SCOPE OF ASSET ADJUSTMENTS TO BE DETERMINED AT DETAILED DESIGN STAGE.
2. EXISTING MINOR UTILITY INFRASTRUCTURE (ELECTRICAL LV , TELECOMMUNICATIONS, LOCAL STORMWATER DRAINAGE) TO BE ADJUSTED OR REMOVED TO SUIT THE RE-DEVELOPMENT OF THE SITE, SUBJECT TO AUTHORITY CONSENT

CAUTION:

BEWARE WORKING AROUND EXISTING UNDERGROUND UTILITIES.

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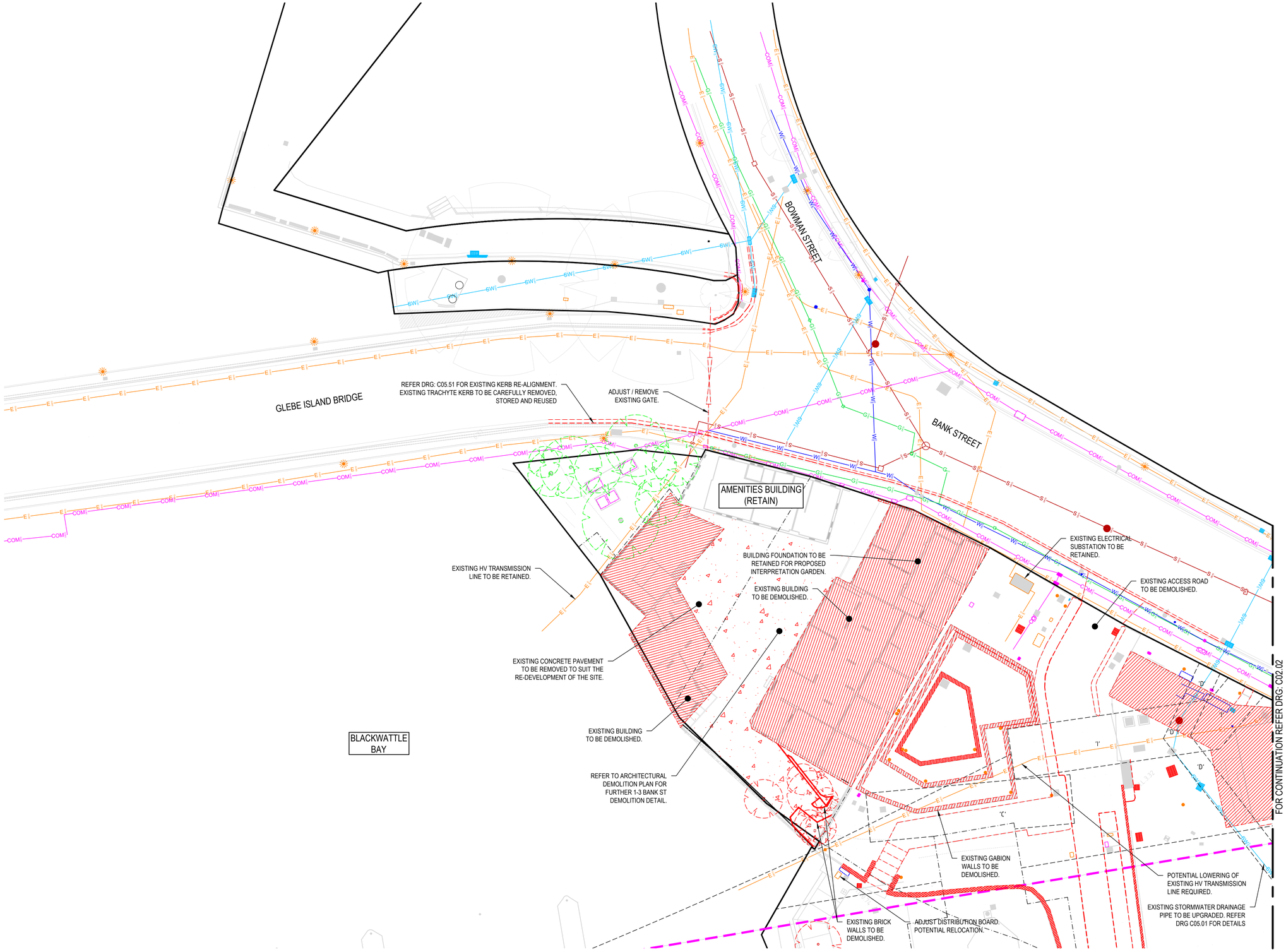

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3	28/11/2023	ISSUED FOR SSD	AR	RH	RL	RH
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Client: we are insw Infrastructure New South Wales

Scale: 0 5 10 15 20 25m — SCALE 1:250 @A1

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Project: BANK STREET PARK, PYRMONT

Title: DEMOLITION PLAN

SHEET 01

Scale: 1:250

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
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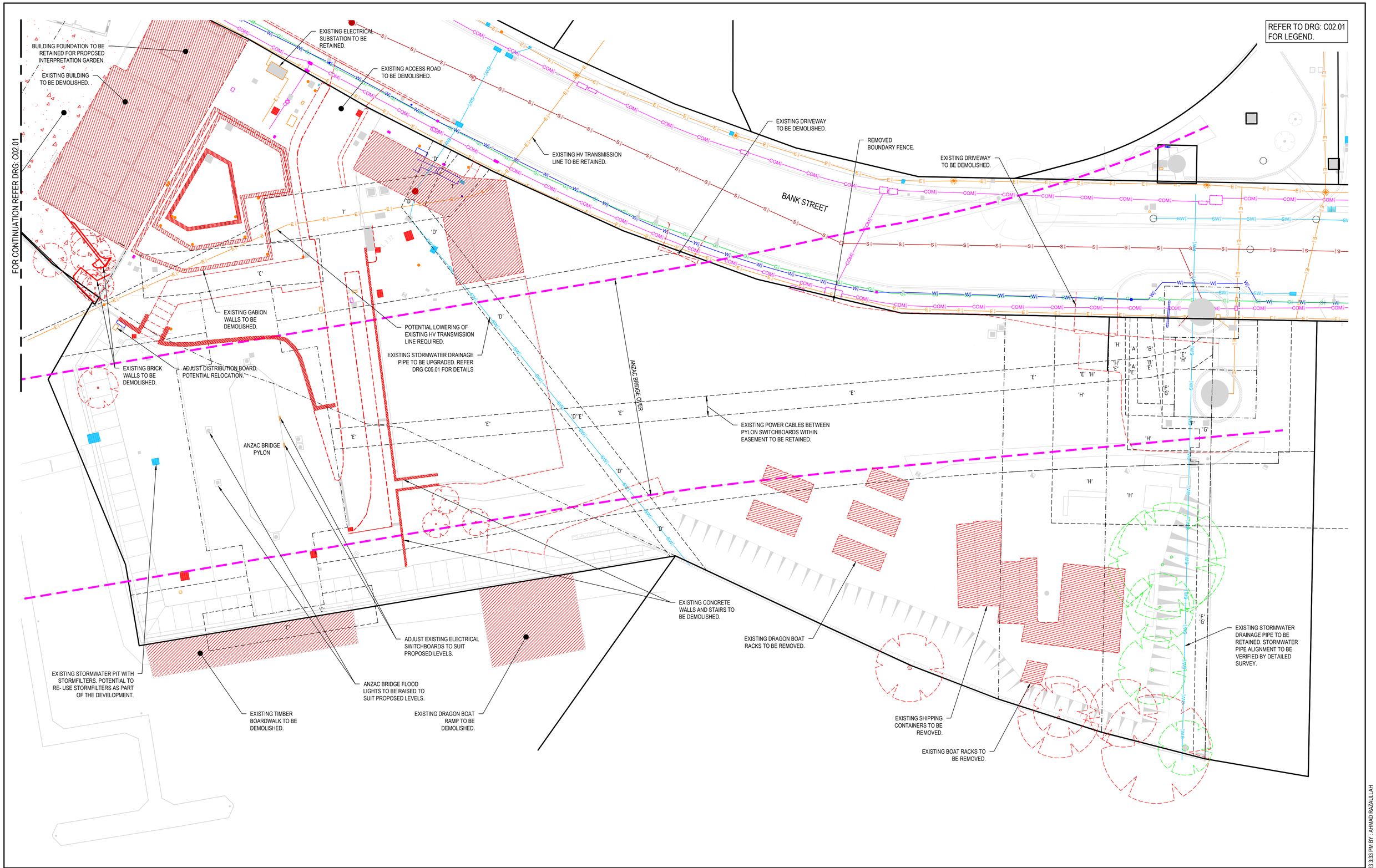
Project Number/Drawing Number: 220067-00-DA-C02.01

Revision: 3

DATE PLOTTED: 28 November 2023 3:33 PM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C02.01-C02.02 DEMOLITION PLAN.dwg



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Client: we are in NSW Infrastructure New South Wales

Scale: 0 5 10 15 20 25m — SCALE 1:250 @A1

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SHEET 02

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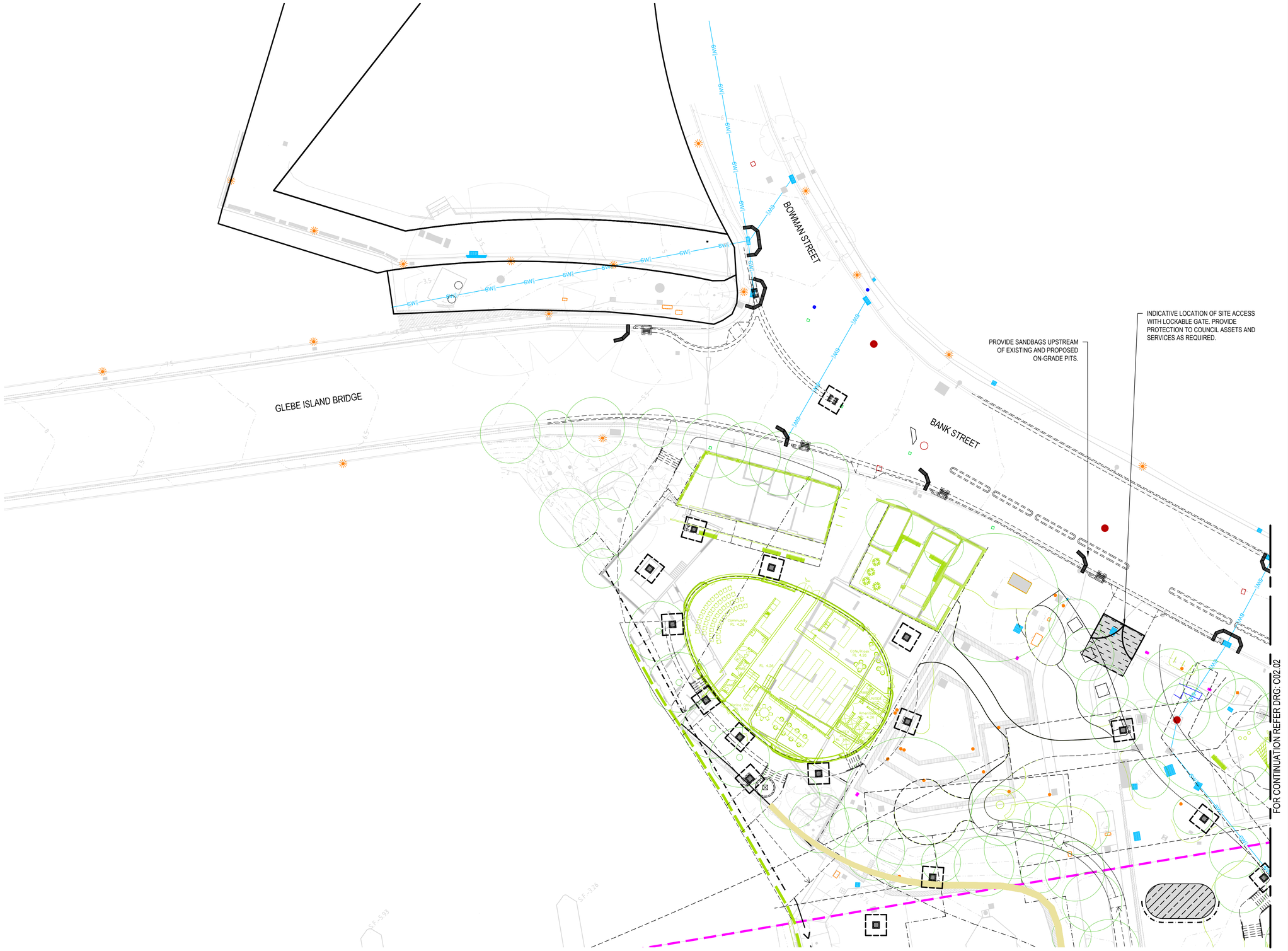
LEGEND

- SITE BOUNDARY
- 100.00 — EXISTING CONTOUR
- TEMPORARY CONSTRUCTION EXIT REFER TO DRG. C03.21 FOR DETAIL
- STOCKPILES (SD 4-1) REFER TO DRG. C03.21 FOR DETAIL
- SEDIMENT FENCE (SD 6-8) REFER TO DRG. C03.21 FOR DETAIL
- CATCH DRAIN / SWALE
- SEDIMENT TRAP FOR KERB INLET (ON GRADE - SANDBAG) REFER TO DRG. C03.21 FOR DETAIL
- SEDIMENT TRAP FOR KERB INLET (AT LOW POINT - SANDBAG) REFER TO DRG. C03.21 FOR DETAIL
- GEOTEXTILE INLET FILTER (SD 6-12) REFER TO DRG. C03.21 FOR DETAIL

GENERAL NOTES:

1. ALL SEDIMENT AND SOIL EROSION CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE 'BLUE BOOK'. CONTRACTOR TO ENSURE APPROPRIATE MEASURES ARE IN PLACE AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION WORKS.
2. PROVIDE GEOTEXTILE INLET FILTER OR MESH GRAVEL INLET FILTER TO ALL STORMWATER PITS AND INLETS AS CONSTRUCTED.



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Project: BANK STREET PARK, PYRMONT

Title: EROSION AND SEDIMENTATION CONTROL PLAN

SHEET 01

Scale: 1:250

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
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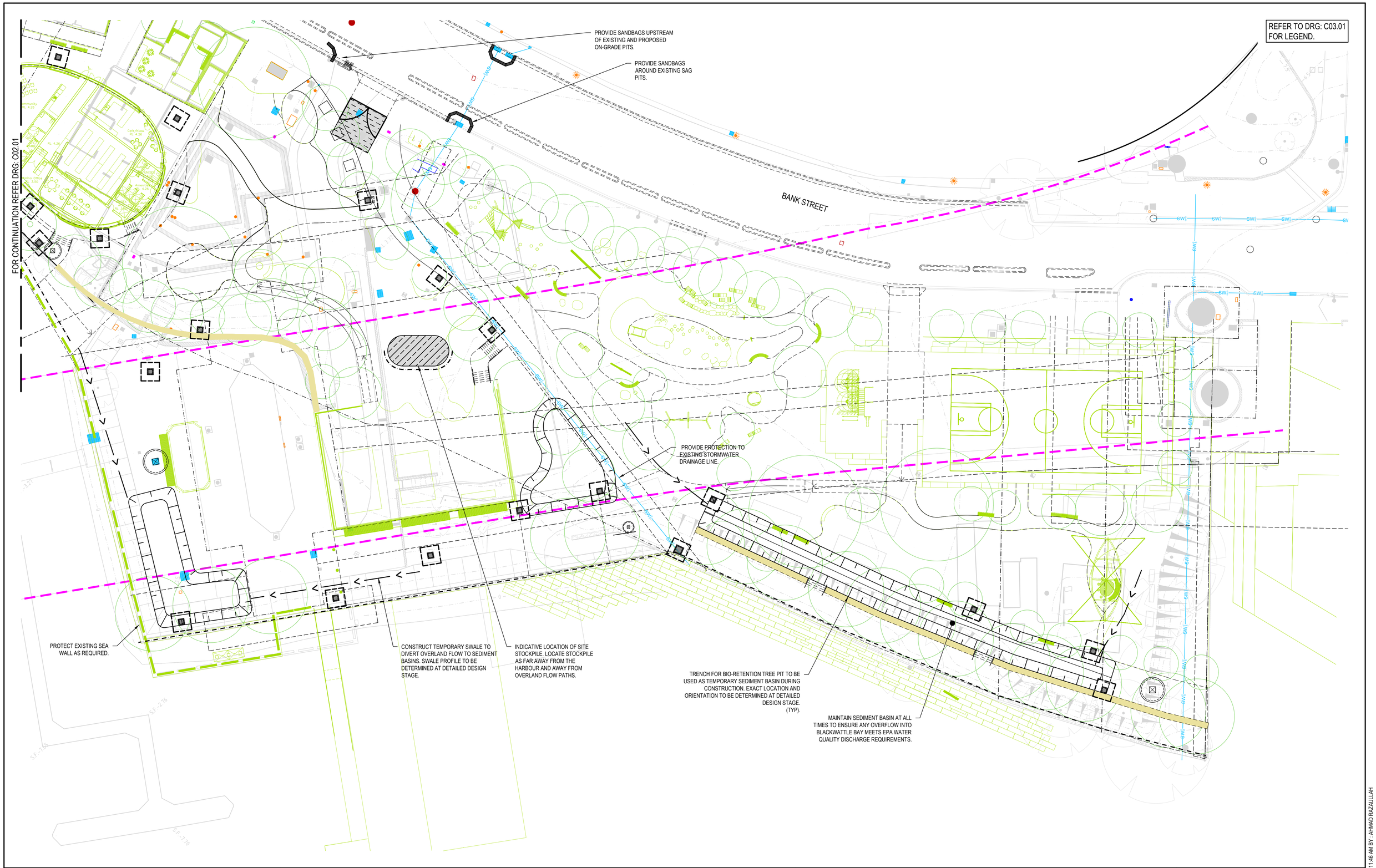

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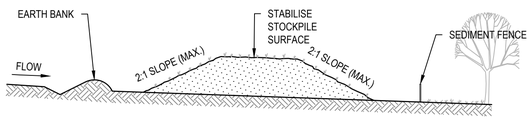
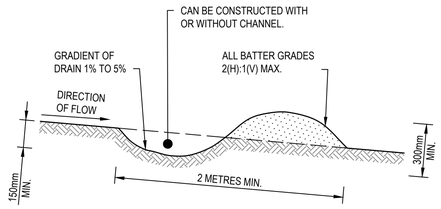


CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

STOCKPILES (SD 4-1)

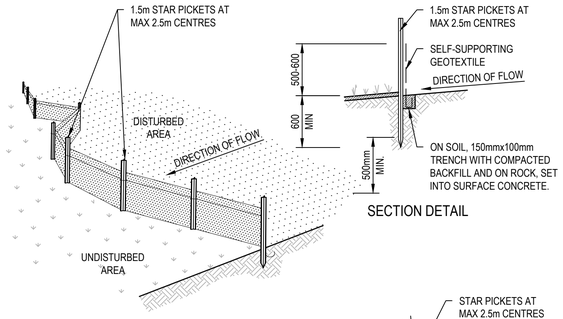


CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

NOTE: ONLY TO BE USED AS TEMPORARY BANK
WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

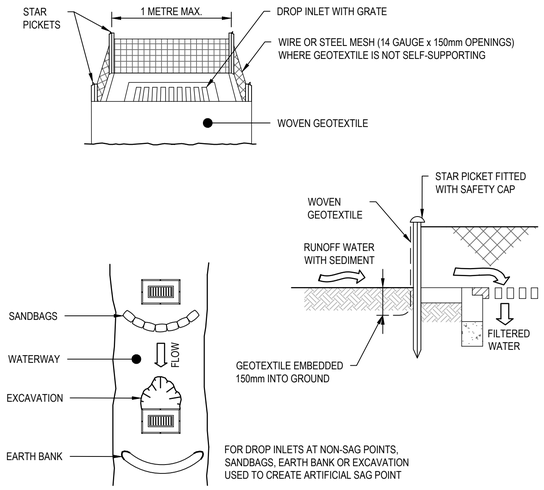
EARTH BANK - LOW FLOW (SD 5-5)



CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

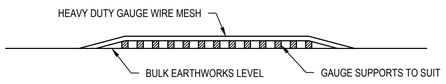
SEDIMENT FENCE (SD 6-8)



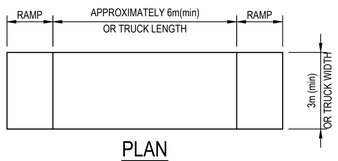
CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER (SD 6-12)



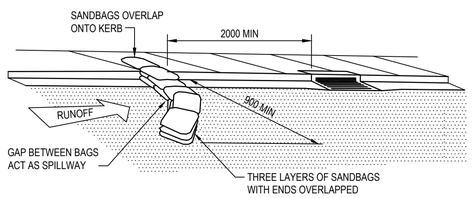
ELEVATION



PLAN

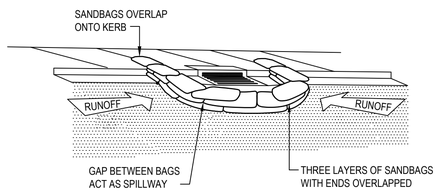
TEMPORARY CONSTRUCTION EXIT (SHAKER PAD DETAIL)

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.



SEDIMENT TRAP FOR KERB INLET (ON GRADE - SANDBAG)

NOT TO SCALE



SEDIMENT TRAP FOR KERB INLET (AT LOW POINT - SANDBAG)

NOT TO SCALE

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale

North

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Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
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Phone: 02 9922 6135
enspiresolutions.com.au

Project: BANK STREET PARK, PYRMONT

Title: EROSION AND SEDIMENTATION CONTROL DETAILS

Scale: NTS

Date: 23/08/2023

Size: A1

Datum: GDA94

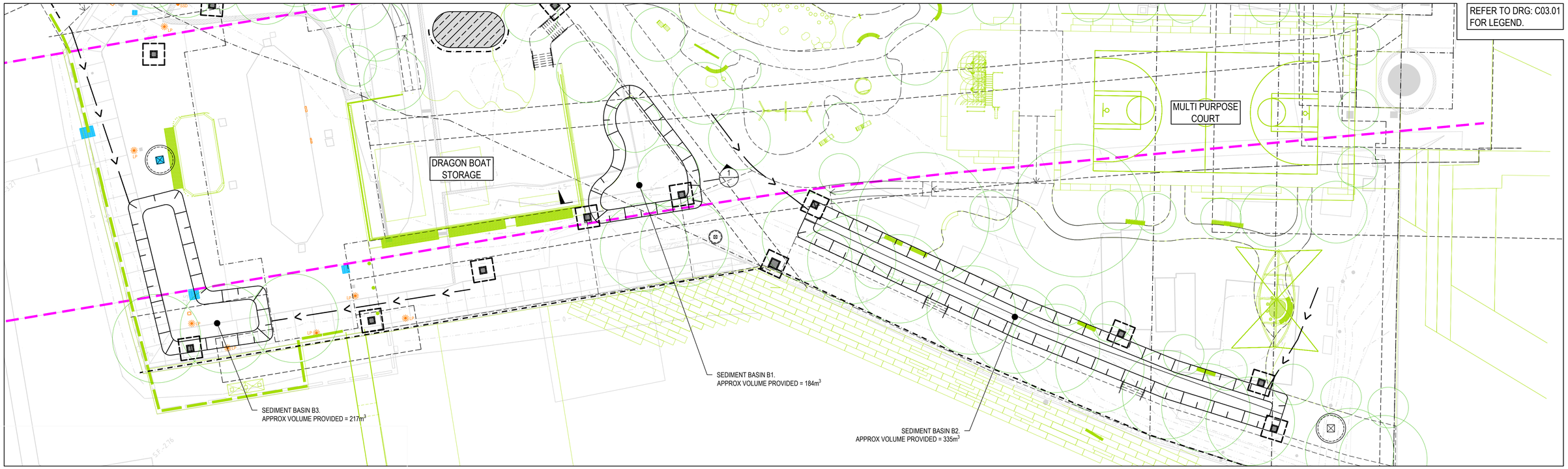
Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C03.21

Revision: 2

DATE PLOTTED: 20 October 2023 11:46 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C03.21 EROSION AND SEDIMENTATION CONTROL DETAILS.dwg



1. Erosion Hazard and Sediment Basins

Site Name:

Site Location:

Precinct/Stage:

Other Details:

Site area	Sub-catchment or Name of Structure						Notes
	B1	B2	B3				
Total catchment area (ha)	0.2	0.14	0.24				
Disturbed catchment area (ha)	0.2	0.14	0.24				

Soil analysis (enter sediment type if known, or laboratory particle size data)

Sediment Type (C, F or D) if known:	D	D	D				From Appendix C (if known)
% sand (fraction 0.02 to 2.00 mm)	30	30	30				Enter the percentage of each soil fraction. E.g. enter 10 for 10%
% silt (fraction 0.002 to 0.02 mm)	30	30	30				
% clay (fraction finer than 0.002 mm)	30	30	30				
Dispersion percentage	10.0	10.0	10.0				E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	4.5	4.5	4.5				See Section 6.3.3(e). Auto-calculated
Soil Texture Group	D	D	D				Automatic calculation from above

Rainfall data

Design rainfall depth (no of days)	5	5	5				See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25.
Design rainfall depth (percentile)	85	85	85				
x-day, y-percentile rainfall event (mm)	38.8	38.8	38.8				
Rainfall R-factor (if known)							Only need to enter one or the other here
IFD: 2-year, 6-hour storm (if known)	42.9	42.9	42.9				

RUSLE Factors

Rainfall erosivity (*R* -factor)	219740	219740	219740				Auto-filled from above
Soil erodibility (*K* -factor)	0.036	0.036	0.036				RUSLE LS factor calculated for a high rill/interrill ratio.
Slope length (m)	43	38	92				
Slope gradient (%)	2.5	2.5	2.5				
Length/gradient (*LS* -factor)	0.40	0.38	0.56				
Erosion control practice (*P* -factor)	1.3	1.3	1.3	1.3	1.3	1.3	
Ground cover (*C* -factor)	1	1	1	1	1	1	

Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins)

Storage (soil) zone design (no of months)	2	2	2	2	2	2	Minimum is generally 2 months
Cv (Volumetric runoff coefficient)	0.34	0.34	0.34				See Table F2, page F-4 in Appendix F

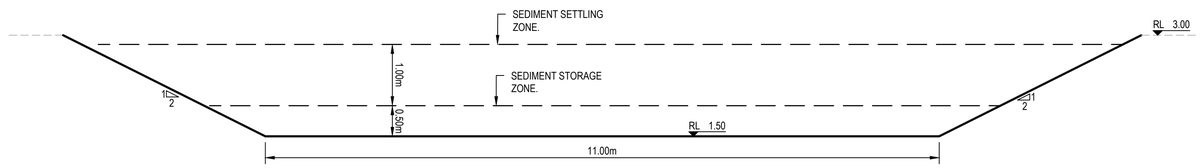
Calculations and Type D/F Sediment Basin Volumes

Soil loss (t/ha/yr)	4124	3907	5753				
Soil Loss Class	7	7	7				See Table 4.2, page 4-13
Soil loss (m^3/ha/yr)	3173	3005	4426				Conversion to cubic metres
Sediment basin storage (soil) volume (m^3)	106	70	177				See Sections 6.3.4(i) for calculations
Sediment basin settling (water) volume (m^3)	26	18	32				See Sections 6.3.4(i) for calculations
Sediment basin total volume (m^3)	132	88	209				

NB for sizing of Type C (coarse) sediment basins, see Worksheet 3 (if required).

GENERAL NOTES:

1. ALL SEDIMENT AND SOIL EROSION CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE 'BLUE BOOK'. CONTRACTOR TO ENSURE APPROPRIATE MEASURES ARE IN PLACE AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION WORKS.
2. REFER SPECIFICATION NOTES FOR SEDIMENT AND SOIL EROSION CONTROL REQUIREMENTS.
3. CONTRACTOR TO CONSTRUCT AND MAINTAIN SEDIMENT BASIN IN ACCORDANCE WITH RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
4. TEST ANY EXISTING STORED WATER AND FLOCCULATE AS REQUIRED TO ENSURE WATER QUALITY MEETS THE REQUIREMENTS OF COUNCIL PRIOR TO PUMPING FOR DUST CONTROL.
5. THE SITE IS SUBJECT TO CONTAMINATED SOILS. THE CONTRACTOR SHALL ENSURE THE RECOMENDATIONS OF THE RAP ARE IMPLEMENTED.



SECTION 1 / -
SCALE 1:50

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
1	20/10/2023	ISSUED FOR SSDA	AR	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 5 10 15 20 25m — SCALE 1:250 @A1; 0 1 2 3 4 5m — SCALE 1:50 @A1

North

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Project: BANK STREET PARK, PYRMONT

Title: SEDIMENT BASIN PLAN AND DETAIL

Scale: AS SHOWN

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C03.31

Revision: 1

DATE PLOTTED: 20 October 2023 11:58 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C03.31-HARBOUR PARK - SEDIMENT BASIN PLAN AND DETAILS.dwg

LEGEND

- GREATER THAN 3.5m CUT
- 3.0m TO 3.5m CUT
- 2.5m TO 3.0m CUT
- 2.0m TO 2.5m CUT
- 1.5m TO 2.0m CUT
- 1.0m TO 1.5m CUT
- 0.5m TO 1.0m CUT
- 0.0m TO 0.5m CUT
- 0.0m TO 0.5m FILL
- 0.5m TO 1.0m FILL
- 1.0m TO 1.5m FILL
- 1.5m TO 2.0m FILL
- 2.0m TO 2.5m FILL
- GREATER THAN 2.5m FILL
- TREE TO BE RETAINED

NOTES

1. REFER SPECIFICATION NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS.
4. NO ALLOWANCE HAS BEEN MADE FOR TOPSOIL STRIPPING AND DETAILED EARTHWORKS AND THE LIKE.
5. CONTOURS REPRESENT APPROXIMATE BULK SURFACE LEVELS.
6. CUT TO FILL CALCULATIONS ARE BASED ON EXISTING SURFACE TO BULK SURFACE.
7. APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS;

7.1.	CUT	6,911	cu.m
7.2.	FILL	1,422	cu.m
7.3.	BALANCE	5,489	cu.m EXPORT

8. THE FOLLOWING DEPTH ASSUMPTIONS HAVE BEEN MADE:
   - 8.1. TURF - 300mm DEEP
   - 8.2. PAVING AREAS - 300mm DEEP
   - 8.3. PLANTING AREAS - 500mm DEEP
   - 8.4. TREES - 1.0m DEEP
   - 8.5. BIO-RETENTION TREE PITS - 1.0m DEEP

CAUTION:

BEWARE WORKING AROUND EXISTING UNDERGROUND UTILITIES.

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REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 10 20 30 40m — SCALE 1:400 @A1

North

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Project: BANK STREET PARK, PYRMONT

Title: CUT AND FILL PLAN

Scale: 1:400

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C04.01

Revision: 2

DATE PLOTTED: 20 October 2023 11:47 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C04.01 CUT AND FILL PLAN.dwg

LEGEND

- SITE BOUNDARY
- INTERNAL BOUNDARY
- 100.00 — CONTOUR
- ANZAC BRIDGE OVER
- BATTER
- RW — RETAINING WALL TO LANDSCAPE ARCHITECTS DETAILS
- SEATING WALL TO LANDSCAPE ARCHITECTS DETAILS
- EXISTING SEA WALL
- FFL 10.00 — FINISHED FLOOR LEVEL
- F 100.00 — FINISHED LEVEL
- VEGETATED SWALE
- B — REMOVABLE BOLLARDS
- 375 — PIPE SIZE; STORMWATER DRAINAGE LINE; FLOW DIRECTION
- Ø375 / USIL= 0.00 / % 1.0 / DSIL= 0.00 / L= 20.00 — PIPE INFORMATION: PIPE SIZE, UP-STREAM INVERT LEVEL, PIPE GRADE, DOWN-STREAM INVERT LEVEL, PIPE LENGTH
- OVERLAND FLOW
- KERB INLET PIT — REFER CITY OF SYDNEY COUNCIL STANDARD DRG: 7.1.1 FOR DETAILS
- SURFACE INLET PIT/JUNCTION PIT — REFER CITY OF SYDNEY COUNCIL STANDARD DRG: 7.1.7 FOR DETAILS
- GTD — GRATED TRENCH DRAIN
- STORM-FILTER WATER QUALITY CHAMBER
- BIO-RETENTION TREE PIT
- SS — SUBSOIL DRAINAGE LINE
- FP — SUBSOIL DRAINAGE FLUSHING POINT
- PROPOSED TREE TO LANDSCAPE ARCHITECTS DETAILS

MET-OCEAN CONDITIONS:

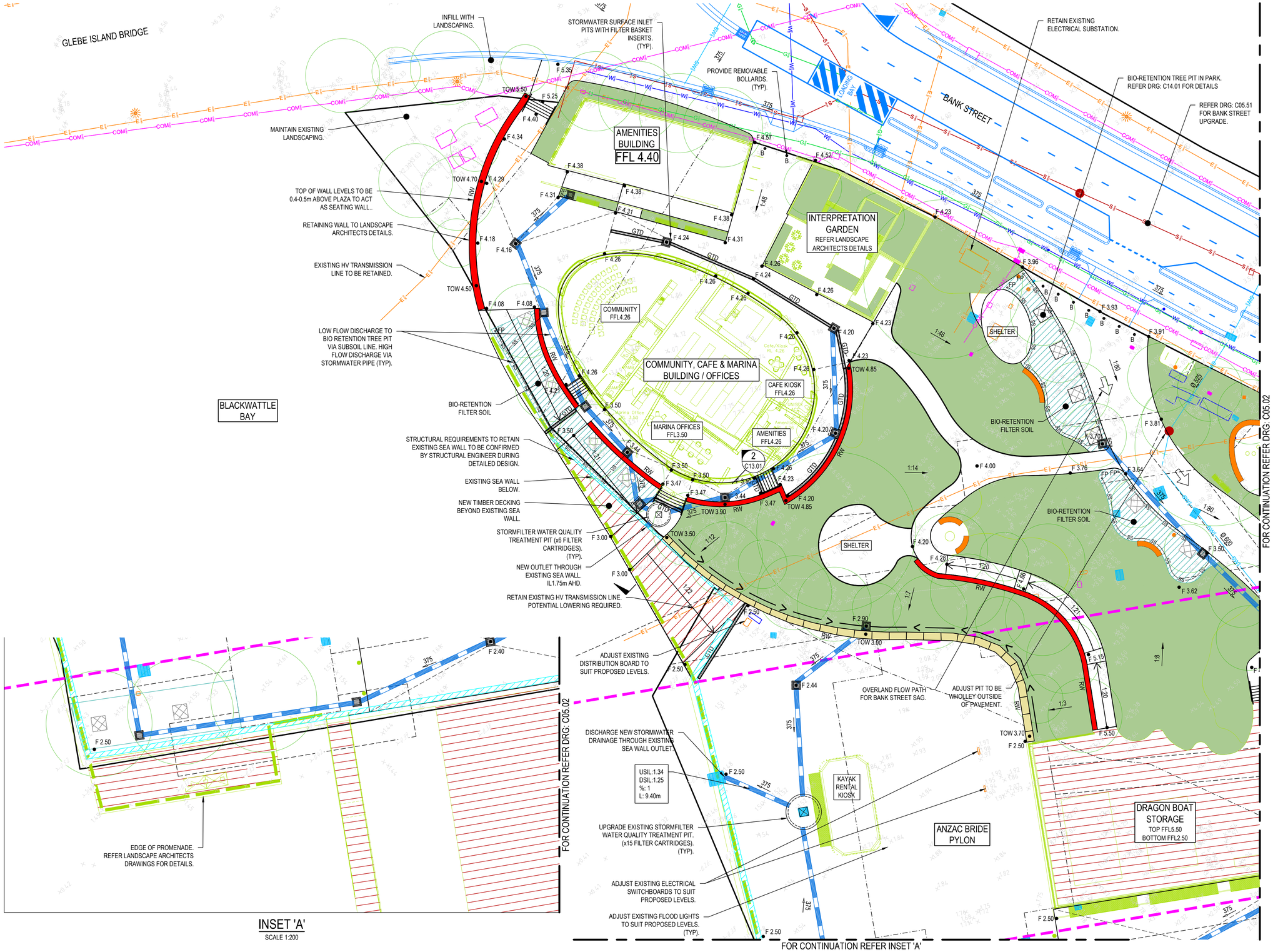
- TIDAL RANGE = 2.1m
  - LOWEST ASTRONOMICAL TIDE: -0.93m AHD
  - MEAN WATER LEVEL: 0.07 AHD
  - HIGHEST ASTRONOMICAL TIDE: 1.17m AHD
- 2050 CLIMATIC CONDITION: 1.78m AHD
- 2100 CLIMATIC CONDITION: 2.28m AHD

NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
2. ROOF DRAINAGE SUBJECT TO DETAILED DESIGN.
3. PIPE SIZES SHOWN INDICATIVE SUBJECT TO DETAILED DESIGN.
4. EXISTING MINOR UTILITY INFRASTRUCTURE (ELECTRICAL LV, TELECOMMUNICATIONS, LOCAL STORMWATER DRAINAGE) TO BE ADJUSTED OR REMOVED TO SUIT THE RE-DEVELOPMENT OF THE SITE, SUBJECT TO AUTHORITY CONSENT.

CAUTION

EXISTING UTILITY SERVICE ADJUSTMENT IS SUBJECT TO DETAILED INVESTIGATION AT DETAILED DESIGN.



INSET 'A'
SCALE 1:200

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 5 10 15 20m — SCALE 1:200 @A1

North

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Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
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Project: BANK STREET PARK, PYRMONT

Title: HARBOUR PARK SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 01

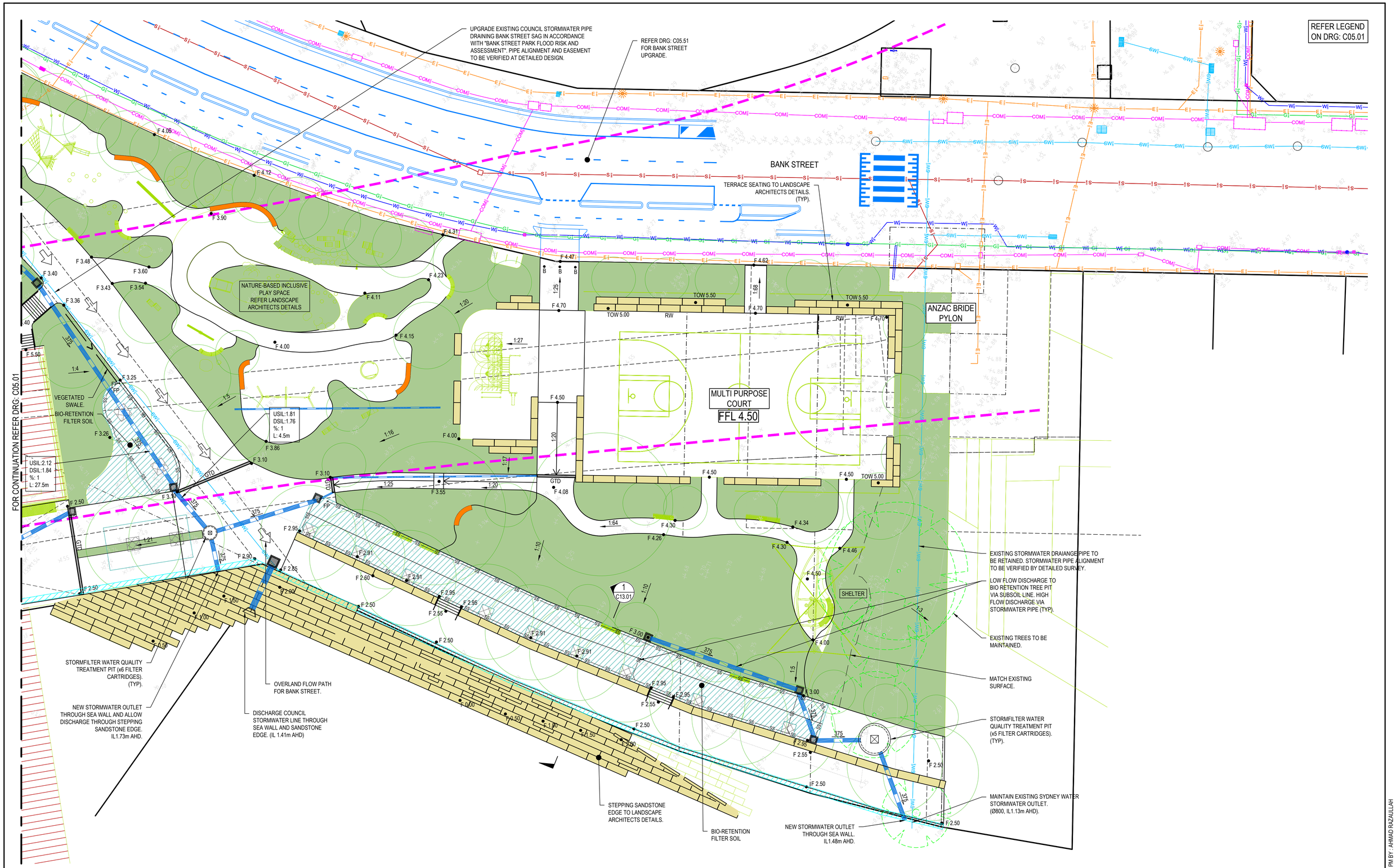
Scale: 1:200
Date: 23/08/2023
Size: A1
Datum: GDA94

Status: FOR INFORMATION ONLY — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C05.01
Revision: 2

DATE PLOTTED: 20 October 2023 12:02 PM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C05.01-C05.02 HARBOUR PARK - SITEWORKS AND STORMWATER MANAGMENET PLAN.dwg



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 5 10 15 20m — SCALE 1:200 @A1

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Level 4, 153 Walker Street, North Sydney NSW 2060
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Project: BANK STREET PARK, PYRMONT

Title: HARBOUR PARK SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 02

Scale: 1:200 | Date: 23/08/2023 | Size: A1 | Datum: GDA94

Status: FOR INFORMATION ONLY — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C05.02 | Revision: 2

DATE PLOTTED: 20 October 2023 12:02 PM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C05.01-C05.02 HARBOUR PARK - SITEWORKS AND STORMWATER MANAGMENET PLAN.dwg

LEGEND

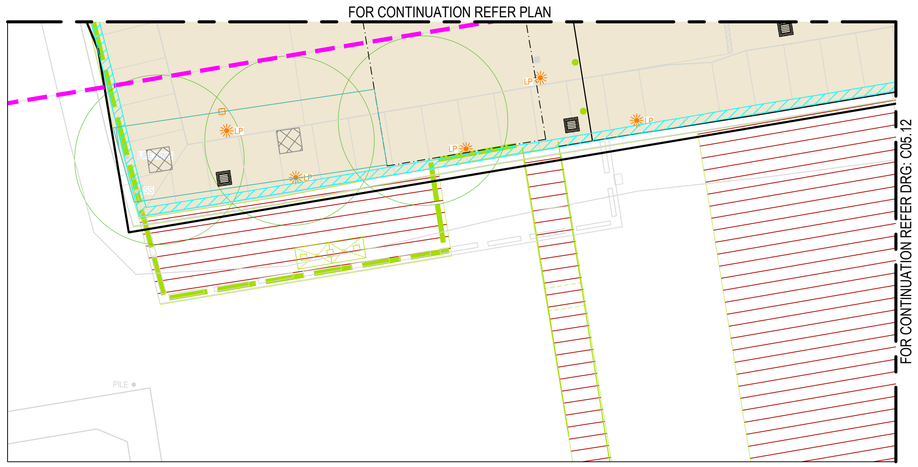
- SITE BOUNDARY
- CONCRETE PAVING
- CONCRETE SHARED PATH - FOOTPATH AND VEHICLE MAINTENANCE ACCESS
- RW — RETAINING WALL TO LANDSCAPE ARCHITECTS DETAILS

LANDSCAPE ARCHITECT FINISHES

- RECYCLED BRICK PAVING
- GRAVEL PAVING
- MULCH
- DECORATIVE PAVEMENT
- TURF / PLANTING
- MULTI PURPOSE COURT
- PLAYGROUND SOFT-FALL
- DECKING

NOTES

1. REFER LANDSCAPE ARCHITECT DRAWINGS FOR FINISH DETAILS.
2. PAVEMENT STRUCTURAL DETAILS SUBJECT TO DETAILED DESIGN.



INSET 'A'
SCALE 1:200

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 5 10 15 20m — SCALE 1:200 @A1

North

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Level 4, 153 Walker Street, North Sydney NSW 2060
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Project: BANK STREET PARK, PYRMONT

Title: HARBOUR PARK PAVEMENT PLAN SHEET 01

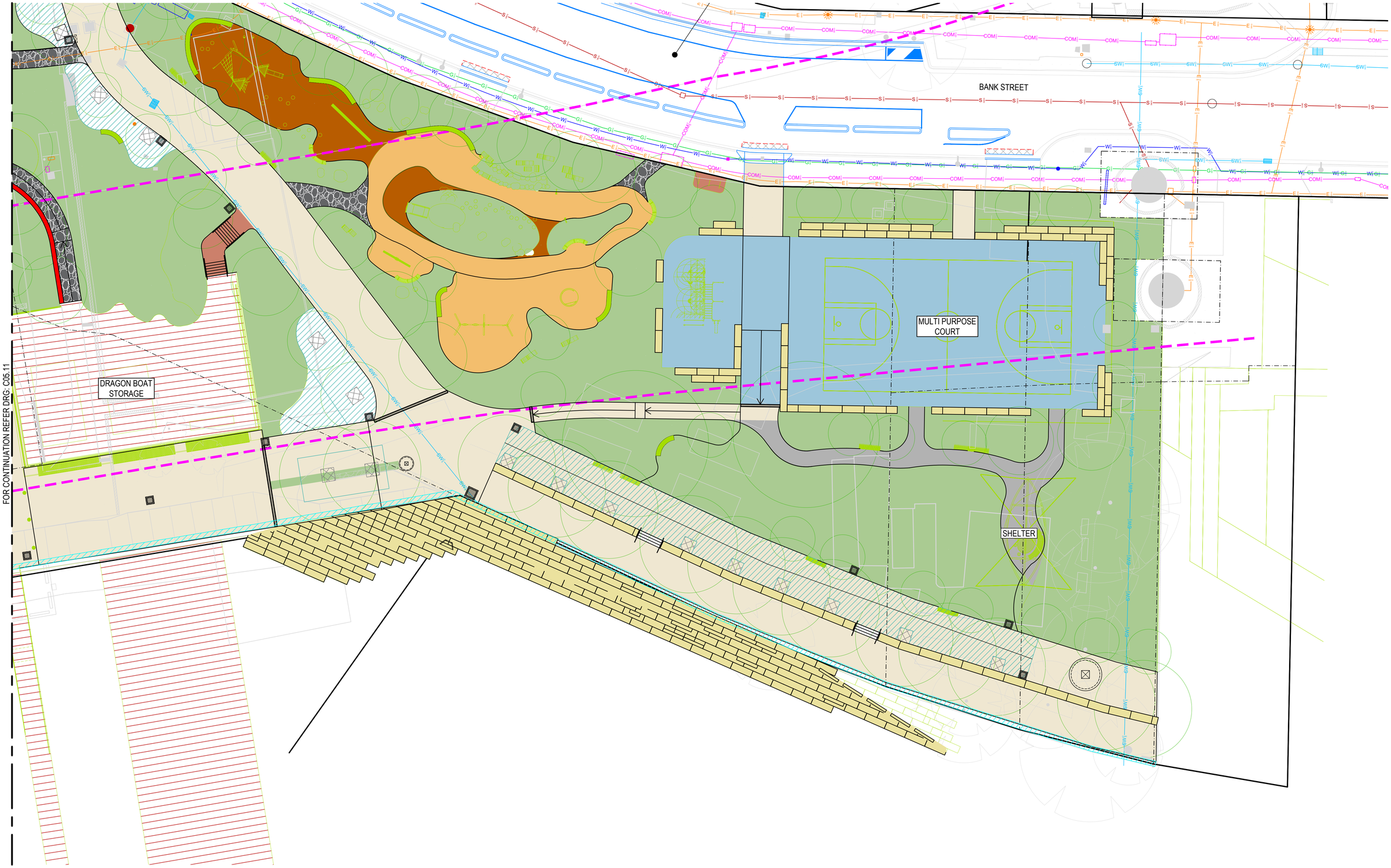
Scale: 1:200
Date: 23/08/2023
Size: A1
Datum: GDA94

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C05.11
Revision: 2

DATE PLOTTED: 20 October 2023 11:48 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C05.11-C05.12 HARBOUR PARK - PAVEMENT, SIGNAGE AND LINEMARKING PLAN.dwg



FOR CONTINUATION REFER DRG: C05.11

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client

we are nsw Infrastructure New South Wales

Scale

0 5 10 15 20m

SCALE 1:200 @A1

North

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Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project
BANK STREET PARK,
PYRMONT

Title
HARBOUR PARK
PAVEMENT PLAN
SHEET 02

Scale 1:200

Date 23/08/2023

Size A1

Datum GDA94

Status
FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number
220067-00-DA-C05.12

Revision 2

DATE PLOTTED: 20 October 2023 11:48 AM BY - AHMAD RAZAULLAH

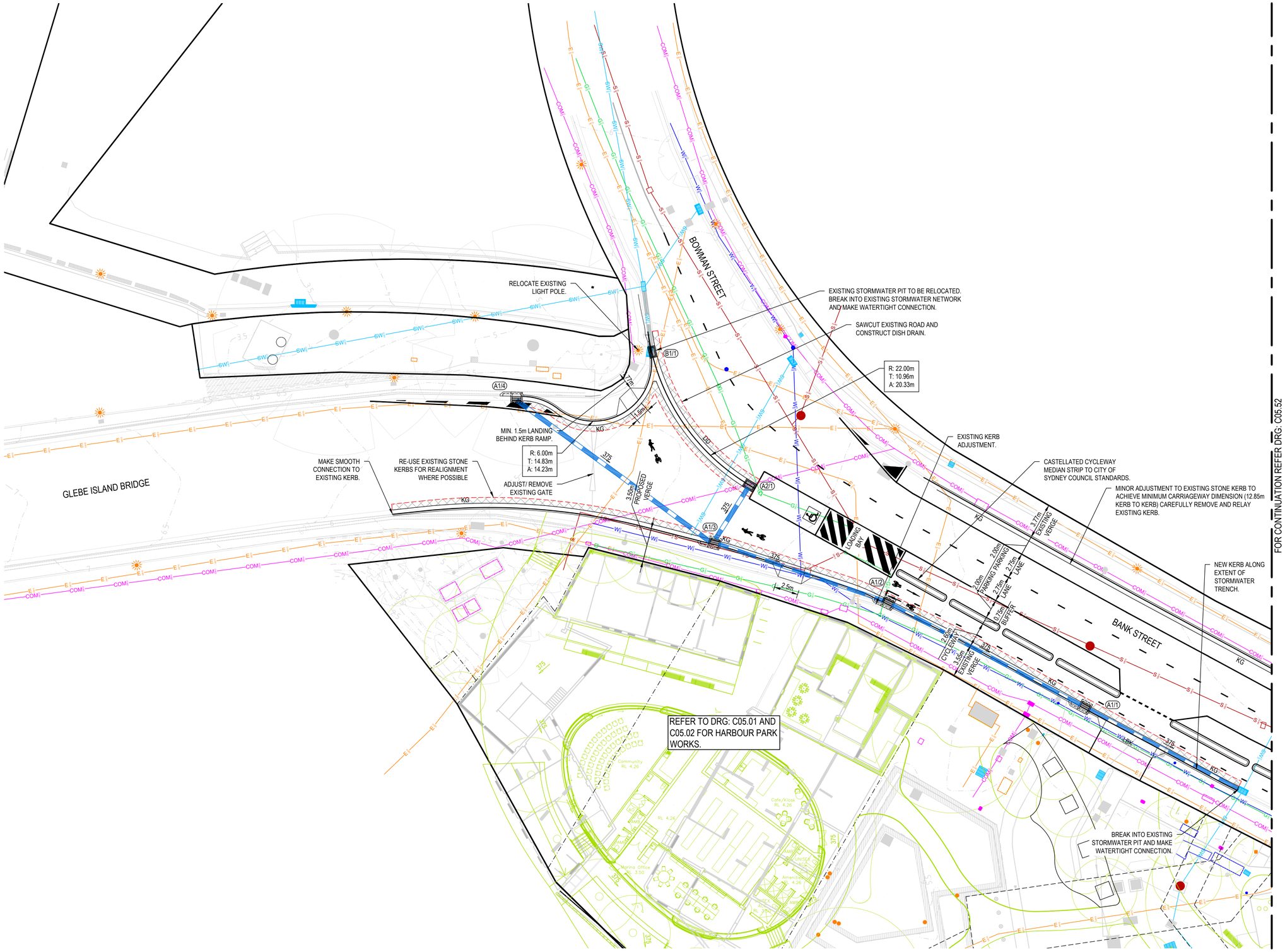
CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C05.11-C05.12 HARBOUR PARK - PAVEMENT, SIGNAGE AND LINEMARKING PLAN.dwg

LEGEND

- SITE BOUNDARY
- KG — STONE KERB WITH CONCRETE GUTTER REFER CITY OF SYDNEY COUNCIL STANDARD DRG: 1.1.1 FOR DETAILS
- DD — DISH DRAIN REFER CITY OF SYDNEY COUNCIL STANDARD DRG: 1.1.2 FOR DETAILS
- KERB RAMP REFER CITY OF SYDNEY COUNCIL STANDARD DRG: 2.6.5 FOR DETAILS
- LBK — LAYBACK KERB REFER CITY OF SYDNEY COUNCIL STANDARD DRG: 2.6.8 FOR DETAILS
- SAWCUT AND PAVEMENT RESTORATION REFER CITY OF SYDNEY COUNCIL STANDARD DRG: 1.1.6 FOR DETAILS
- 375 — PIPE SIZE STORMWATER DRAINAGE LINE FLOW DIRECTION
- A01/01 — STORMWATER LINE/PIT NUMBER
- R: 1.0m T: 2.0m A: 3.0m — KERB SETOUT INFORMATION RADIUS TANGENT LENGTH ARC LENGTH
- SURFACE INLET / KERB INLET PIT REFER CITY OF SYDNEY COUNCIL STANDARD DRG: 7.1.1 FOR DETAILS

NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
2. PIPE SIZES SHOWN INDICATIVE SUBJECT TO DETAILED DESIGN.



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 5 10 15 20m — SCALE 1:200 @A1

North

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Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: BANK STREET PARK, PYRMONT

Title: BANK STREET SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 01

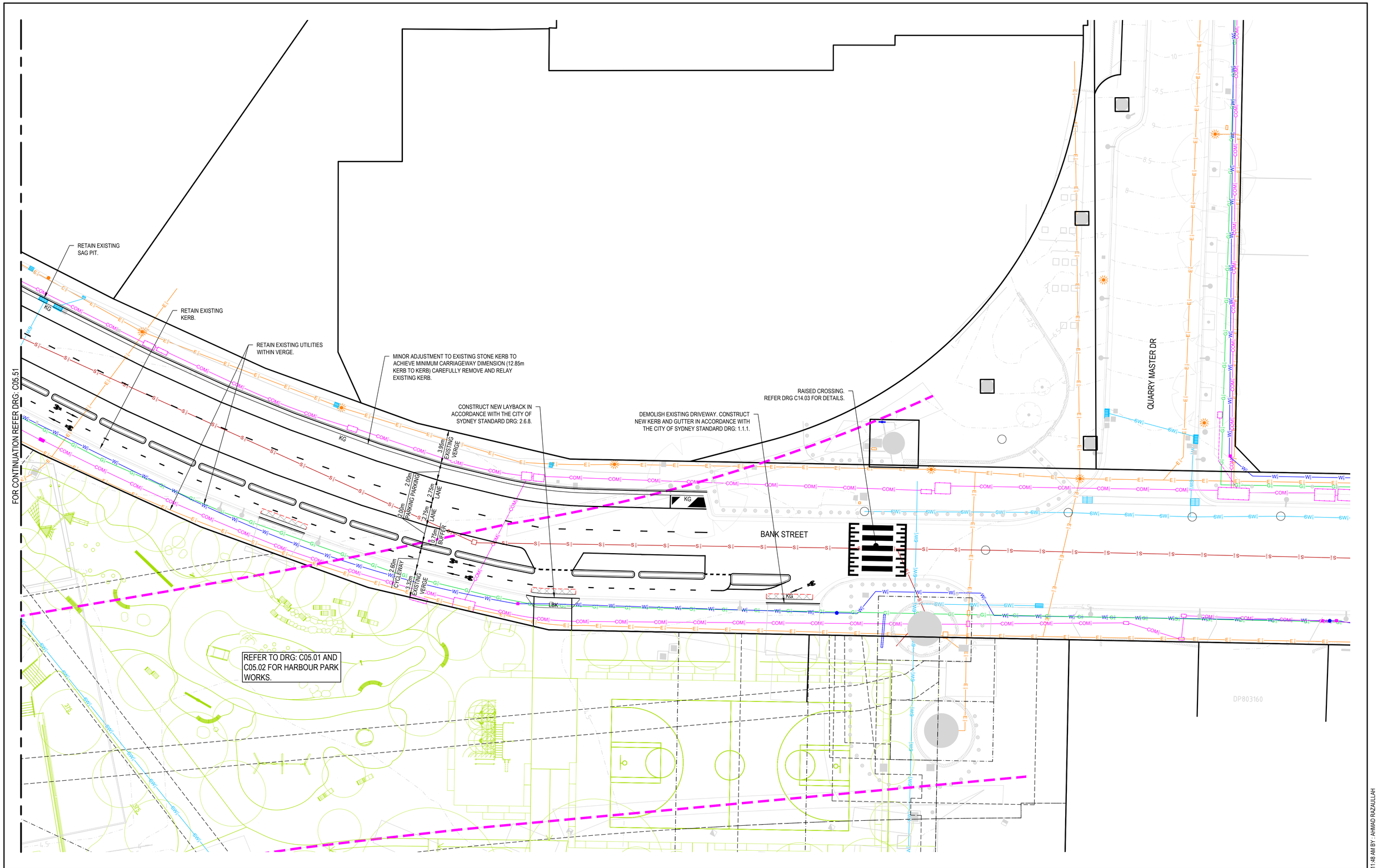
Scale: 1:200 | Date: 23/08/2023 | Size: A1 | Datum: GDA94

Status: FOR INFORMATION ONLY — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C05.51 | Revision: 2

DATE PLOTTED: 20 October 2023 11:48 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C05.51-C05.52 BANK STREET - SITEWORKS AND STORMWATER MANAGMENET PLAN.dwg



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 5 10 15 20m — SCALE 1:200 @A1

North

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Project: BANK STREET PARK, PYRMONT

Title: BANK STREET SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 02

Scale: 1:200

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C05.52

Revision: 2

DATE PLOTTED: 20 October 2023 11:48 AM BY - AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C05.51-C05.52 BANK STREET - SITEWORKS AND STORMWATER MANAGMENET PLAN.dwg

LEGEND

SITE BOUNDARY

FOOTPATH

DRIVEWAY

MEDIAN / BUFFER ISLAND

LANDSCAPE ARCHITECT FINISHES

PLANTING

PAVEMENT MARKINGS

CYCLEWAY PAVEMENT MARKING

EDGE LINES
E1
E4

BARRIER LINES
BB

LANE LINES
L1

CONTINUITY LINES
C1

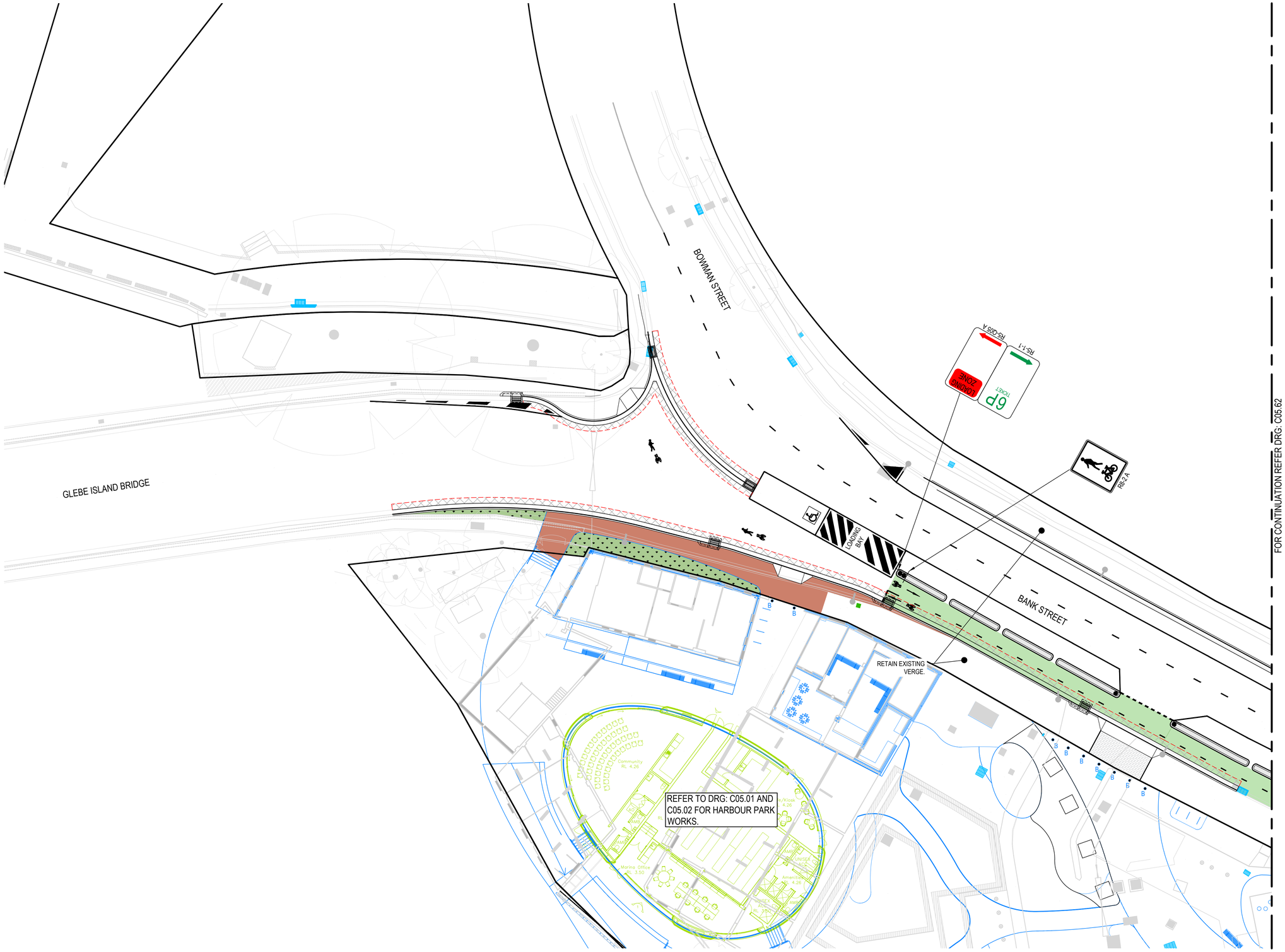
GIVEWAY LINES
TB

PEDESTRIAN CROSSING
PCW

SIGNAGE

PROPOSED SIGN

EXISTING SIGN / PARKING METER



FOR CONTINUATION REFER DRG: C05.62

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
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1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 5 10 15 20m — SCALE 1:200 @A1

North

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Project: BANK STREET PARK, PYRMONT

Title: BANK STREET PAVEMENT, SIGNAGE AND LINEMARKING PLAN SHEET 01

Scale: 1:200

Date: 23/08/2023

Size: A1

Datum: GDA94

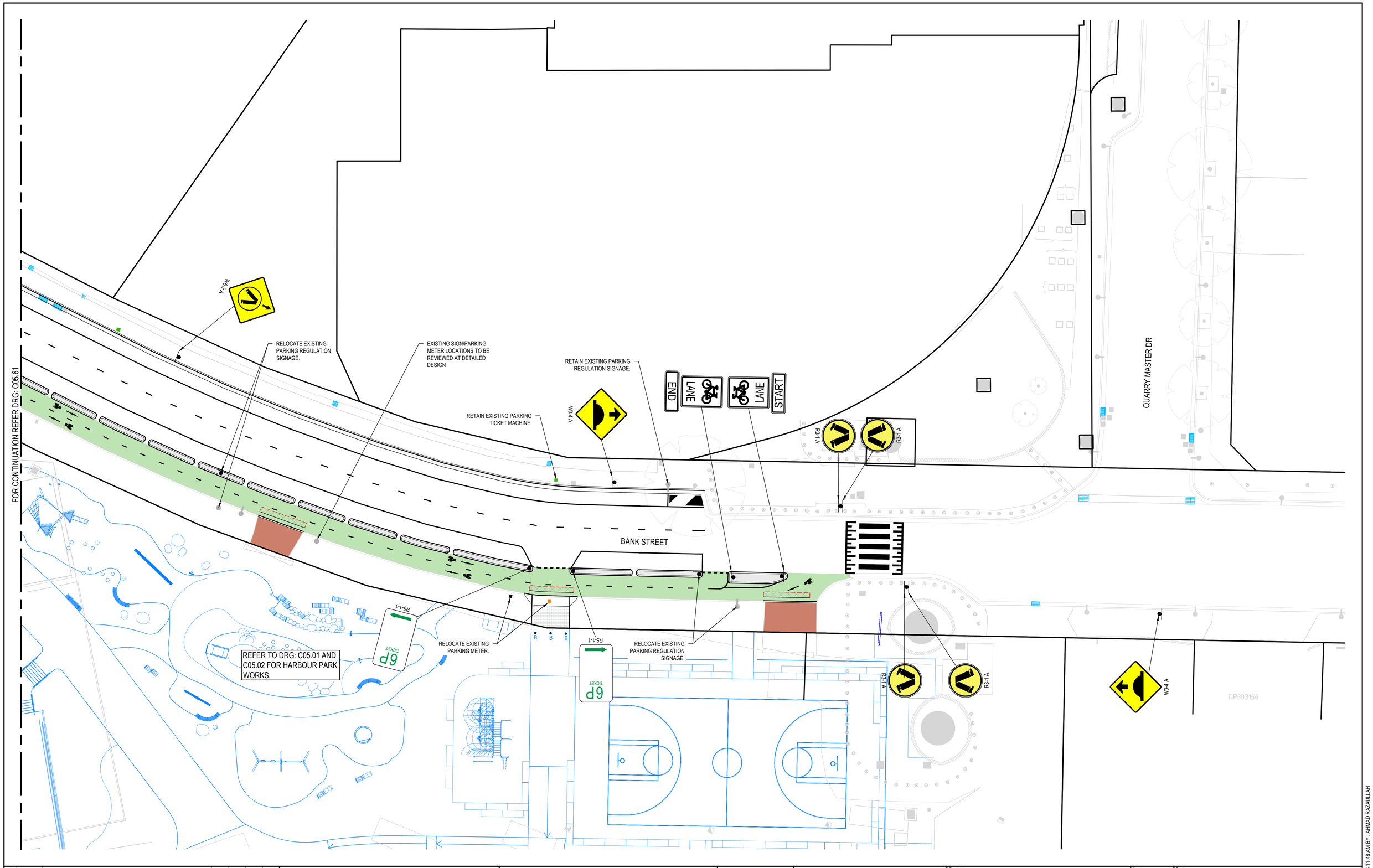
Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C05.61

Revision: 2

DATE PLOTTED: 20 October 2023 11:48 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C05.61-C05.62 BANK STREET - PAVEMENT, SIGNAGE AND LINEMARKING PLAN.dwg



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client

we are insw Infrastructure New South Wales

Scale

0 5 10 15 20m

SCALE 1:200 @A1

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Project
BANK STREET PARK,
PYRMONT

Scale
1:200

Date
23/08/2023

Status
FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Title
BANK STREET
PAVEMENT, SIGNAGE AND LINEMARKING PLAN
SHEET 02

Size
A1

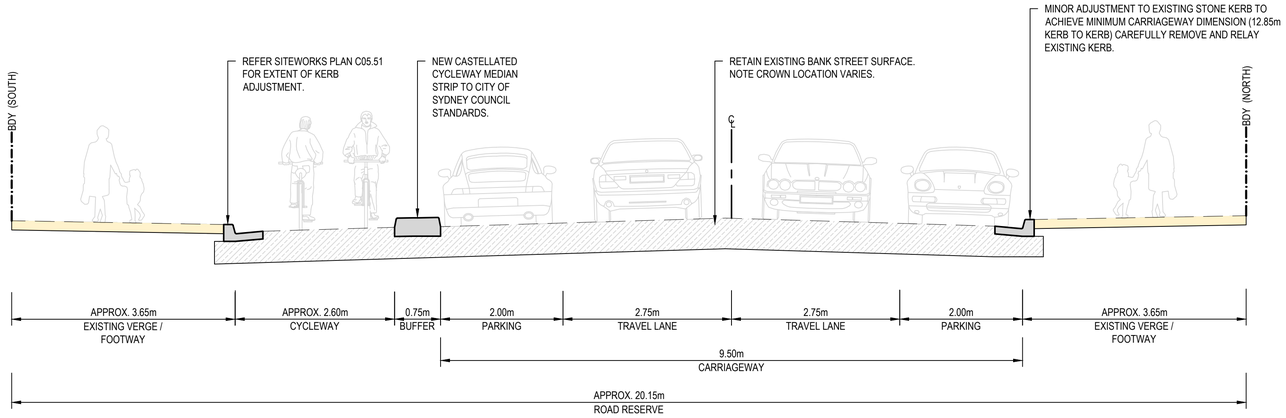
Datum
GDA94

Project Number/Drawing Number
220067-00-DA-C05.62

Revision
2

DATE PLOTTED: 20 October 2023 11:46 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C05.61-C05.62 BANK STREET - PAVEMENT, SIGNAGE AND LINEMARKING PLAN.dwg



BANK STREET - TYPICAL SECTION

SCALE 1:50

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are in NSW Infrastructure New South Wales

Scale: 0 1 2 3 4 5m — SCALE 1:50 @A1

North

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Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: BANK STREET PARK, PYRMONT

Title: ROAD TYPICAL CROSS SECTIONS

Scale: 1:50

Date: 23/08/2023

Size: A1

Datum: GDA94

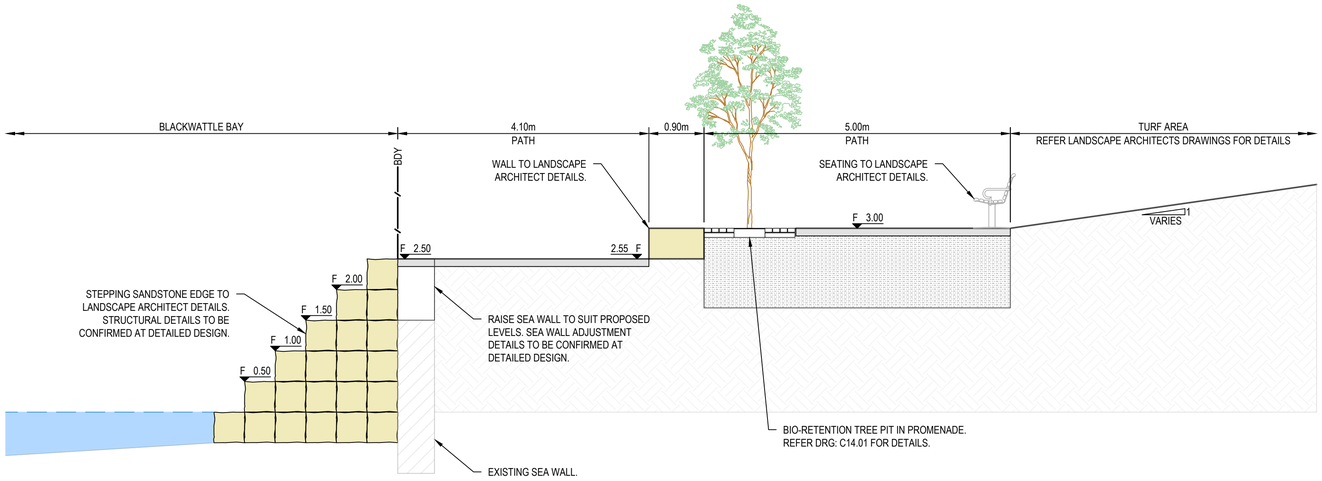
Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C06.01

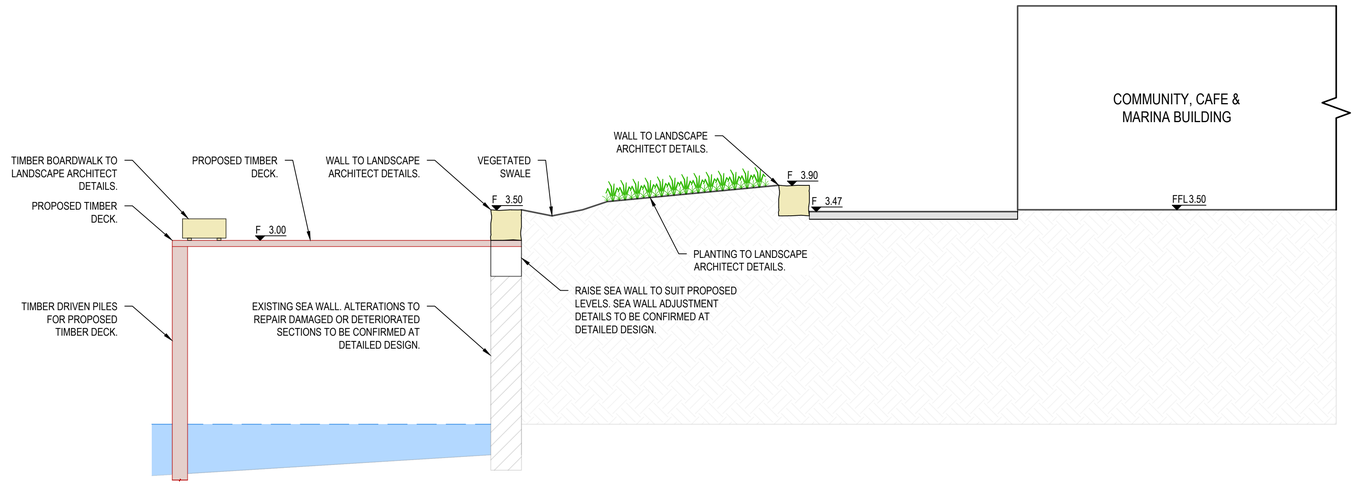
Revision: 2

DATE PLOTTED: 20 October 2023 11:49 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C06.01 ROAD TYPICAL CROSS SECTIONS.dwg



SECTION 1 / C05.02
SCALE 1:50



SECTION 2 / C05.01
SCALE 1:50

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1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 1 2 3 4 5m — SCALE 1:50 @A1

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ABN: 71 624 801 690
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Project: BANK STREET PARK, PYRMONT

Title: SITE SECTIONS

Scale: AS SHOWN

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C13.01

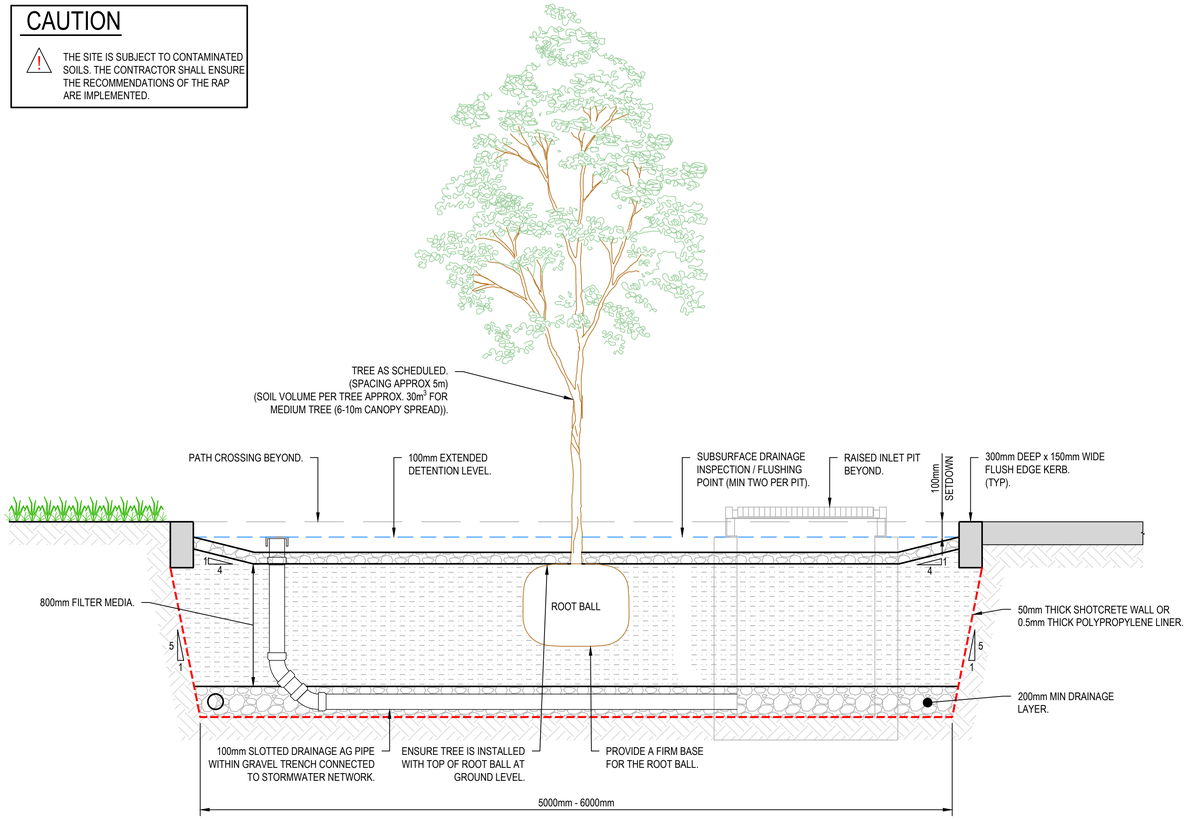
Revision: 2

DATE PLOTTED: 20 October 2023 11:49 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C13.01 SITE SECTIONS.dwg

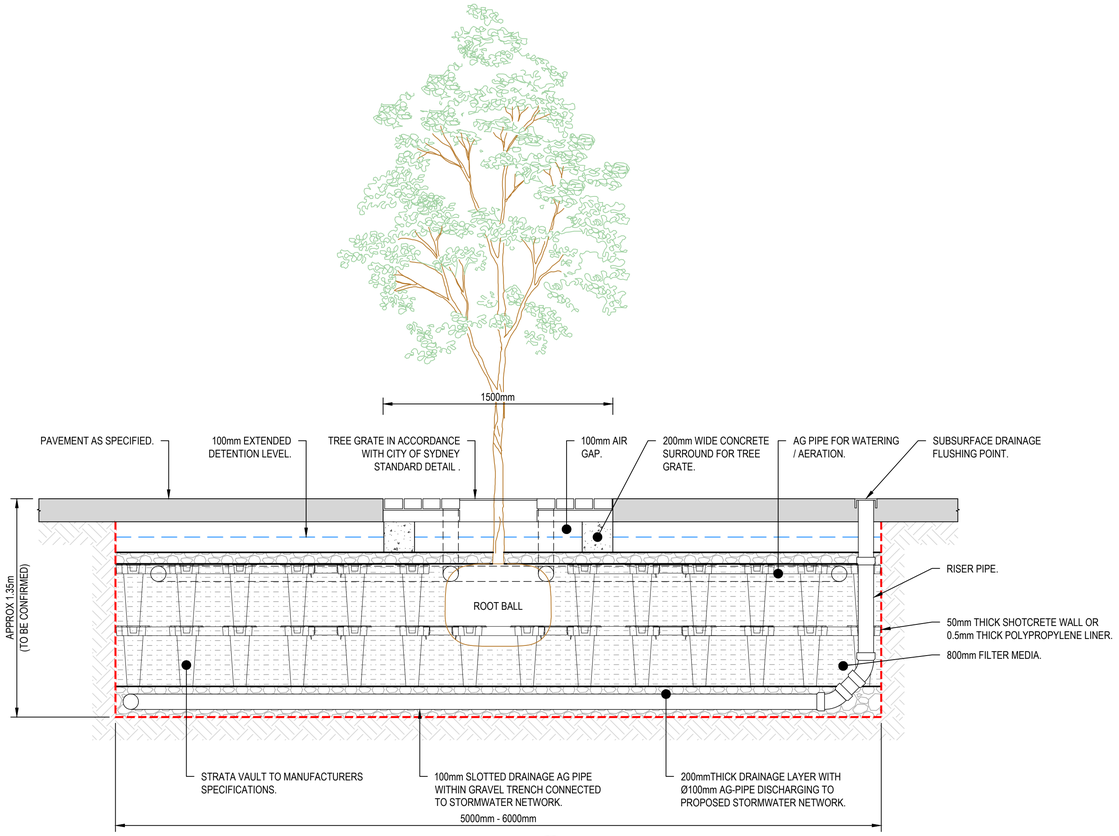
CAUTION

⚠ THE SITE IS SUBJECT TO CONTAMINATED SOILS. THE CONTRACTOR SHALL ENSURE THE RECOMMENDATIONS OF THE RAP ARE IMPLEMENTED.



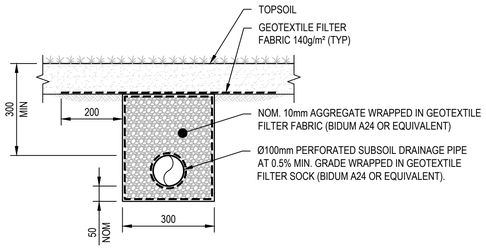
BIO-RETENTION TREE PIT IN PARK

SCALE 1:20



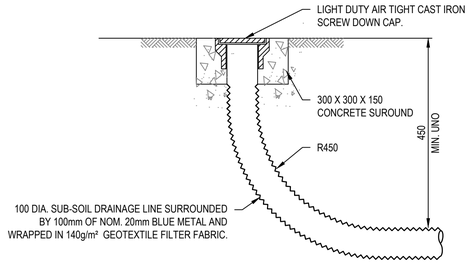
SECTION A

SCALE 1:20



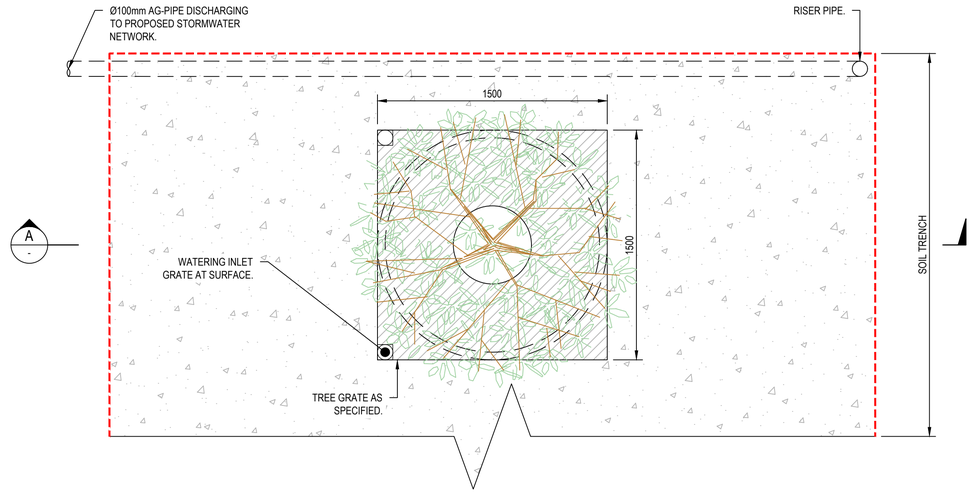
SUBSOIL IN LANDSCAPE AREAS

SCALE 1:10



FLUSHING POINT

SCALE 1:10



TREE PLANTING: BIO-RETENTION TREE PIT IN PROMENADE

SCALE 1:20

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 200 400 600 800 1000mm — SCALE 1:10 @A1; 0 500 1000 1500 2000mm — SCALE 1:20 @A1

North

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Project: BANK STREET PARK, PYRMONT

Title: DETAILS

SHEET 01

Scale: AS SHOWN

Date: 23/08/2023

Size: A1

Datum: GDA94

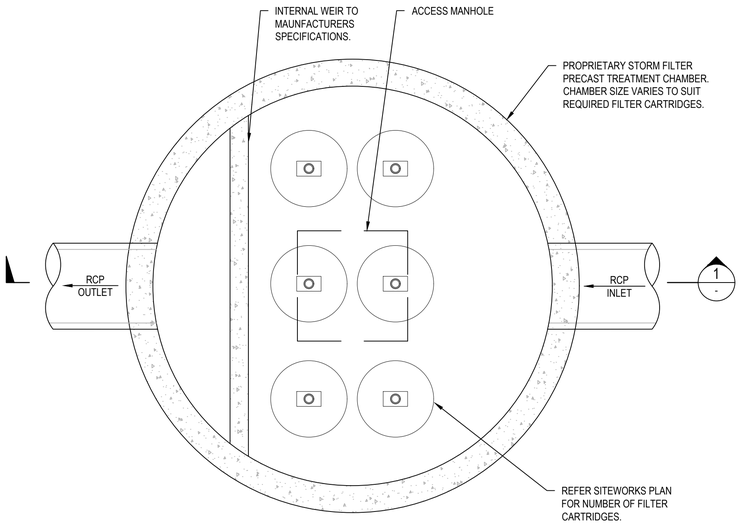
Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C14.01

Revision: 2

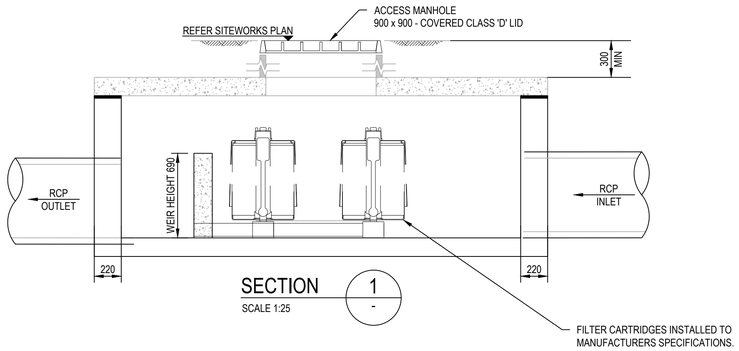
DATE PLOTTED: 20 October 2023 11:49 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C14.01-C14.03-DETAILS.dwg



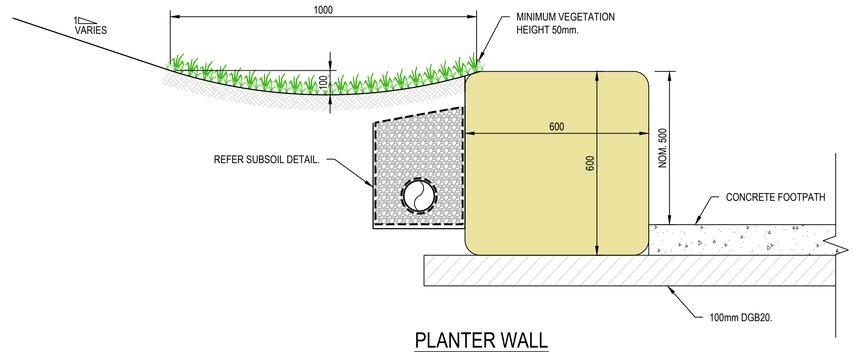
WATER QUALITY TREATMENT CHAMBER

SCALE 1:25



SECTION 1 / -

SCALE 1:25



PLANTER WALL

SCALE 1:10

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are in NSW Infrastructure New South Wales

Scale: 0 200 400 600 800 1000mm — SCALE 1:10 @A1; 0 500 1000 1500 2000 2500mm — SCALE 1:25 @A1

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Project: BANK STREET PARK, PYRMONT

Title: DETAILS

SHEET 02

Scale: AS SHOWN

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C14.02

Revision: 2

DATE PLOTTED: 20 October 2023 11:49 AM BY : AHMAD RAZAULLAH

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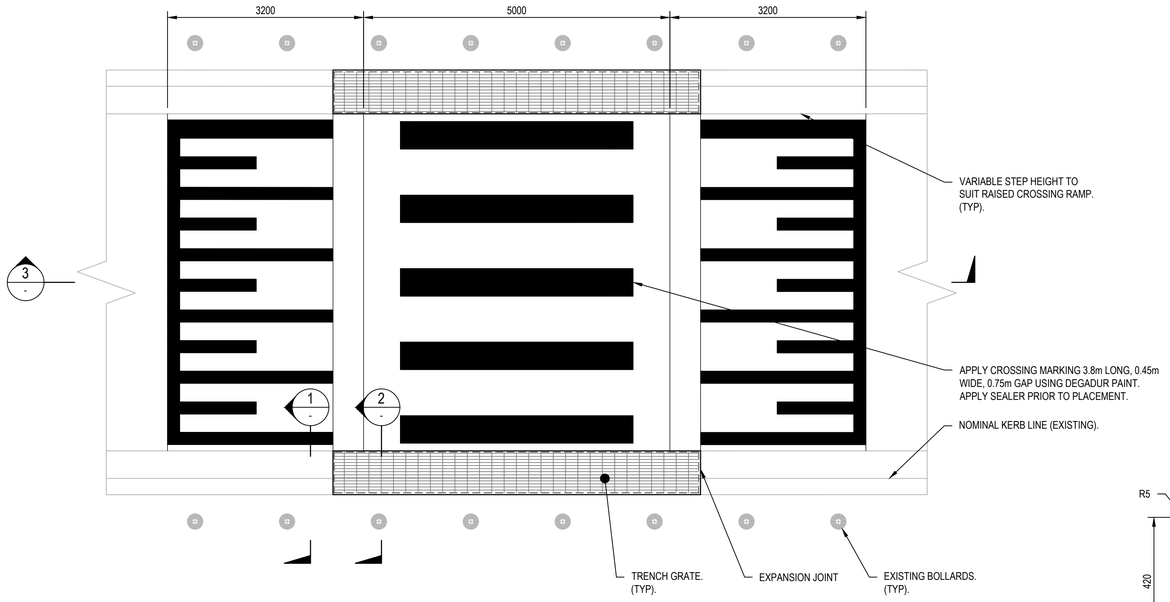
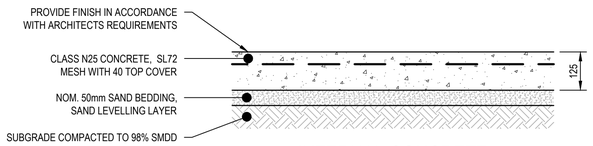
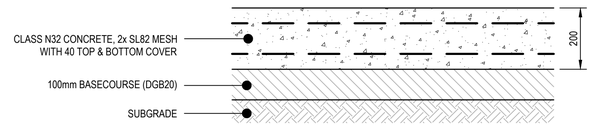


PLAN
SCALE 1:50

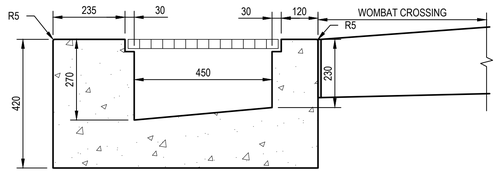


INTERNAL CONCRETE FOOTPATH
SCALE 1:10

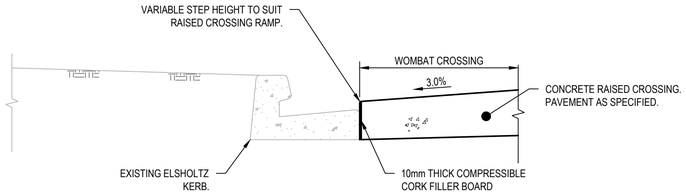


MAINTENANCE ACCESS TRACK
SCALE 1:10

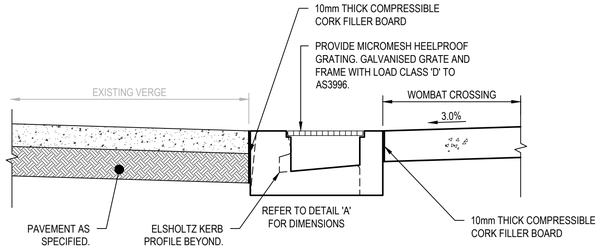
CONTRACTOR TO ALLOW FOR JOINTS - REFER JOINT DETAILS



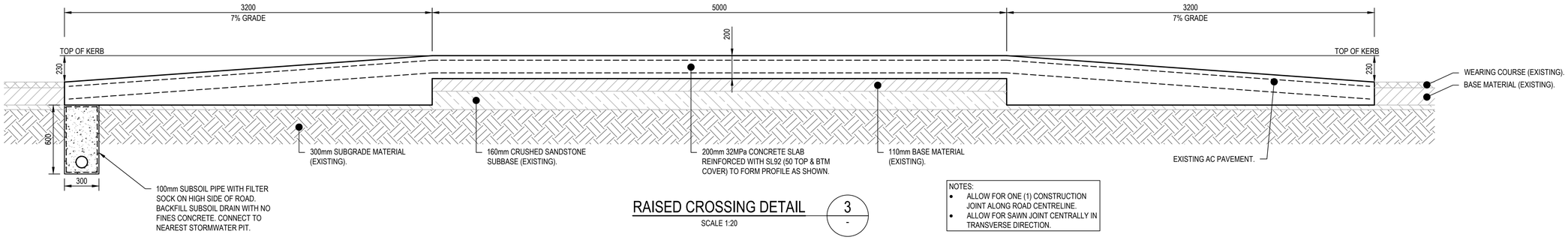
DETAIL 'A'
SCALE 1:10



SECTION 1
SCALE 1:20



SECTION 2
SCALE 1:20



RAISED CROSSING DETAIL
SCALE 1:20

NOTES:
- ALLOW FOR ONE (1) CONSTRUCTION JOINT ALONG ROAD CENTRELINE.
- ALLOW FOR SAWN JOINT CENTRALLY IN TRANSVERSE DIRECTION.

0 200 400 600 800 1000mm
SCALE 1:10 @A1

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 500 1000 1500 2000mm SCALE 1:20 @A1; 0 1000 2000 3000 4000 5000mm SCALE 1:50 @A1

North

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Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: BANK STREET PARK, PYRMONT

Title: DETAILS

SHEET 03

Scale: AS SHOWN

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C14.03

Revision: 2

DATE PLOTTED: 20 October 2023 11:49 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C14.01-C14.03-DETAILS.dwg

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are insw Infrastructure New South Wales

Scale: 0 10 20 30 40 50m — SCALE 1:500 @A1

North

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Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: BANK STREET PARK, PYRMONT

Title: STORMWATER CATCHMENT PLAN

Scale: 1:500

Date: 23/08/2023

Size: A1

Datum: GDA94

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 220067-00-DA-C20.01

Revision: 2

DATE PLOTTED: 20 October 2023 11:49 AM BY : AHMAD RAZAULLAH

CAD File: P:\220067 BankStPark\D-Civil\00-SiteWide\Drawings\6-DACC\1-DA\220067-00-DA-C20.01 STORMWATER CATCHMENT PLAN.dwg

SAFETY IN DESIGN REPORT

INTRODUCTION

ENSPIRE HAS PREPARED DESIGN DOCUMENTATION FOR ROAD UPGRADE WORKS, SITE GRADING, STORMWATER PIT AND PIPE INFRASTRUCTURE AND WATER QUALITY INFRASTRUCTURE FOR BANK STREET PARK. THIS SAFETY IN DESIGN REPORT HAS BEEN DEVELOPED IN PARALLEL WITH THE DESIGN TO IDENTIFY POTENTIAL HAZARDS TO WORK HEALTH AND SAFETY AND DEVELOP RISK ASSESSMENT METHODS TO POTENTIALLY REDUCE THE LIKELIHOOD AND SEVERITY OF HAZARDS.

THIS SAFETY IN DESIGN REPORT HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK HEALTH AND SAFETY REGULATION 2017 AND THE WORK HEALTH AND SAFETY REGULATION PART 6.2 CLAUSE 295. UNDER THE WORK HEALTH AND SAFETY REGULATION DESIGNERS HAVE THE RESPONSIBILITY TO ENSURE THEIR DESIGN ELIMINATES OR MINIMISES RISKS TO HEALTH AND SAFETY AND GIVE ADEQUATE INFORMATION TO PEOPLE COMMISSIONING THE DESIGN AND UNDERTAKING CONSTRUCTION, OPERATION AND MAINTENANCE ACTIVITIES BASED ON THE DESIGN.

THIS REPORT SPECIFIES POTENTIAL HEALTH AND SAFETY RISKS AND HAZARDS ASSOCIATED WITH THE DESIGN ELEMENTS DOCUMENTED IN THIS DRAWING PACKAGE TO RELEVANT PERSONNEL DURING THE DESIGN, CONSTRUCTION, OPERATION AND MAINTENANCE, AND DEMOLITION AS WELL AS ULTIMATE DEMOLITION PROCESS AND ASSESSES THEIR LIKELIHOOD AND CONSEQUENCES. THIS REPORT PROPOSES ACTIONS AND STRATEGIES AGAINST RISKS IDENTIFIED TO ACHIEVE EFFECTIVE MITIGATION OF THE RISKS AND HAZARDS, AND ASSESSES RESIDUAL RISKS BASED ON CONTROL MEASURES BEING IMPLEMENTED. ANY SAFETY ISSUES UNRESOLVED THROUGH DESIGN ARE ALSO IDENTIFIED FOR THEIR APPROPRIATE MANAGEMENT.

THE INFORMATION CONTAINED IN THIS SAFETY IN DESIGN REPORT HAS BEEN PREPARED PRIOR TO THE COMMENCEMENT OF THE WORK ON SITE. IT DOES NOT TAKE ACCOUNT OF ANY MATTERS OR INFORMATION WHICH MAY COME TO LIGHT AFTER THAT TIME. WHEN A DESIGN IS ALTERED, AN ADDITIONAL REVIEW MUST BE CONDUCTED TO ENSURE NEW RISKS HAVE BEEN CAPTURED DUE TO MODIFICATION OF THE DESIGN. ADDITIONALLY, CLIENTS ARE REQUIRED TO INFORM ENSPIRE OF ANY EXISTING RISKS AND HAZARDS IN THE AREA WHERE CONSTRUCTION WILL TAKE PLACE.

THE RISKS IDENTIFIED IN THIS SAFETY IN DESIGN REPORT ARE PROJECT AND DESIGN SPECIFIC RISKS WHICH WOULD NOT BE EASILY RECOGNIZED BY A REASONABLY COMPETENT STAKEHOLDER. IT DOES NOT ADDRESS THE COMMON-PLACE HAZARDS OR HAZARDS WHERE KNOWN SOLUTIONS APPLY, AND WHICH ARE ASSOCIATED WITH CONSTRUCTION, OPERATION AND MAINTENANCE AND DEMOLITION GENERALLY. THESE COMMON-PLACE HAZARDS MUST BE CONTROLLED BY THE APPLICATION OF NORMAL GOOD MANAGEMENT PRACTICES.

THIS DESIGN REPORT ASSUMES THAT DURING CONSTRUCTION, OPERATION AND MAINTENANCE OF THE DEVELOPMENT, THE PRINCIPAL WILL ENGAGE EXPERIENCED AND COMPETENT PERSONNEL AS PART OF THE RESPECTIVE TENDER EVALUATION PROCESS. IT IS THE HEAD CONTRACTOR'S OBLIGATION TO PREPARE AND IMPLEMENT SITE SPECIFIC WORK HEALTH AND SAFETY MANAGEMENT PLANS TO MITIGATE COMMON RISKS ASSOCIATED WITH GENERAL CONSTRUCTION AND OPERATION ACTIVITIES IN ACCORDANCE WITH THE WORK HEALTH AND SAFETY REGULATION 2017.

PROPOSED WORKS

THE SCOPE OF THE MAIN ACTIVITIES INVOLVED IN THESE WORKS ARE:

- DESIGN OF ROAD UPGRADE WORKS TO INCLUDE A DEDICATED CYCLE PATH, SITE GRADING, STORMWATER INFRASTRUCTURE AND WATER QUALITY INFRASTRUCTURE;
- CONSTRUCTION OF A NEW HARBOUR SIDE PARK.

INFORMATION TRANSFER

SAFETY IN DESIGN RELIES ON EFFECTIVE DOCUMENTATION AND COMMUNICATION BETWEEN EVERYONE INVOLVED IN THE LIFE CYCLE OF THE DESIGN ELEMENTS. IN ACCORDANCE WITH THE WORK HEALTH AND SAFETY REGULATION 2017, THE DESIGNER MUST PROVIDE A COPY OF THIS SAFETY IN DESIGN REPORT TO THE PRINCIPAL CONTRACTOR IN PARALLEL WITH THE COMPLETED DESIGN DOCUMENTATION AND ENSURE THAT THE FOLLOWING ACTIONS ARE UNDERTAKEN:

- ONSITE SAFETY INDUCTIONS, INCLUDING HAZARDS IDENTIFIED IN THIS REPORT, SHOULD BE CONDUCTED FOR ALL STAFF;
- SAFETY MANAGEMENT PLANS SHOULD BE PREPARED FOR THE HAZARDS IDENTIFIED IN THIS REPORT;
- THERE SHOULD BE NO VARIATION ON DESIGN REQUIREMENTS WITHOUT CONSULTATION WITH THE ORIGINAL DESIGNERS;
- ONSITE MANAGEMENT OF CONTRACTORS TO ENSURE THAT HAZARDS THAT ARISE THROUGH STARTING/COMPLETION OF JOBS DOES NOT OCCUR; AND
- THIS DESIGN MAY INTERFACE WITH OTHER PLANS AND ACCOUNT SHOULD BE TAKEN OF ANY INTERFACE ISSUES.

IT IS RECOMMENDED THAT THIS SAFETY IN DESIGN REPORT BE PASSED ONTO ANY PARTICIPANT IN THE PROJECT WHO MAY EXTEND THE DESIGN OR FURTHER DEVELOP THE DESIGN.

SAFE DESIGN PROCESS

A SAFE DESIGN PROCESS SHOULD BE ENGAGED EARLY IN THE DEVELOPMENT OF THE DESIGN TO IDENTIFY ALL CONCEIVABLE RISKS AND HAZARDS THAT MAY AFFECT THE FUNDAMENTALS OF THE DESIGN AND AVOID UNNECESSARY REWORK. IT SHOULD BE IMPLEMENTED THROUGH A STRUCTURED APPROACH ACROSS EACH PHASE OF THE DESIGN PROCESS.

DELIVERY OF SAFE DESIGN FOR EACH DESIGN PHASE OF THE PROJECT HAS BEEN CARRIED OUT FOLLOWING THE STEPS BELOW:

- STEP 1: PRELIMINARY RISK IDENTIFICATION

  THE DESIGNER/DESIGN TEAM TO CONDUCT A PRELIMINARY ASSESSMENT AND IDENTIFY ANY POTENTIAL RISKS RELEVANT TO THE SCOPE OF DESIGN WORKS. WITH PROJECTS INVOLVING MULTIPLE DISCIPLINES, THE DESIGNER/DESIGN TEAM TO ATTEND SAFETY IN DESIGN WORKSHOP (IF APPROPRIATE) AND IDENTIFY RISKS IN CONSULTATION WITH OTHER KEY PROJECT STAKEHOLDERS.
- STEP 2: RISK ASSESSMENT AND MITIGATION

  THE DESIGNER/DESIGN TEAM TO ASSESS THE LIKELIHOOD AND SEVERITY OF EACH HAZARD AND DEVELOP CONTROLS AND MEASURES TO ELIMINATE OR MINIMISE THE CONSEQUENCES OF THE HAZARD.
- STEP 3: VERIFICATION

  ENSPIRE TO PERFORM INTERNAL VERIFICATION ON THE SAFE DESIGN RISK REGISTER PRIOR TO ISSUING TO THE CONTRACTOR AND CLIENT.
- STEP 4: REVIEW DESIGN

  THE DESIGNER/DESIGN TEAM TO IDENTIFY ANY ALTERATIONS IN DESIGN AND REVIEW AND UPDATE RISK REGISTER ACCORDINGLY.

MATRIX FOR DETERMINATION OF RISK LEVEL

CONSEQUENCE							
	CATASTROPHIC	(5)	HIGH	VERY HIGH	VERY HIGH	VERY HIGH	VERY HIGH
	MAJOR	(4)	HIGH	HIGH	VERY HIGH	VERY HIGH	VERY HIGH
	MODERATE	(3)	MODERATE	MODERATE	HIGH	HIGH	VERY HIGH
	MINOR	(2)	LOW	LOW	MODERATE	HIGH	VERY HIGH
	INSIGNIFICANT	(1)	LOW	LOW	LOW	MODERATE	HIGH
			RARE (1)	UNLIKELY (2)	POSSIBLE (3)	LIKELY (4)	ALMOST CERTAINLY (5)
			LIKELIHOOD				

QUALITATIVE MEASURES OF IMPACT - CONSEQUENCE SEVERITY

LEVEL	MEASURE	CRITERIA
1	INSIGNIFICANT	NO INJURIES; NO ENVIRONMENTAL IMPACT.
2	MINOR	FIRST AID; ENVIRONMENTAL RELEASE IMMEDIATELY CONTAINED.
3	MODERATE	MEDICAL TREATMENT; ENVIRONMENTAL RELEASE NOT IMMEDIATELY CONTAINED WITH NO DETRIMENTAL EFFECTS.
4	MAJOR	LOST TIME AND/OR LONG-TERM INJURY/ILLNESS; ENVIRONMENTAL RELEASE NOT IMMEDIATELY CONTAINED WITH TOXIC EFFECTS.
5	CATASTROPHIC	FATALITY; RELEASE TO THE ENVIRONMENT WITH LONG TERM OR PERMANENT TOXIC EFFECTS.

QUALITATIVE MEASURES OF LIKELIHOOD OR FREQUENCY

LEVEL	MEASURE	CRITERIA
1	RARE	WOULD ONLY OCCUR IN HIGHLY EXCEPTIONAL CIRCUMSTANCES THAT ARE UNLIKELY TO EXIST IN ANY PHASE OF THE DEVELOPMENT'S LIFECYCLE PERIOD. EXTREMELY REMOTE CHANCE OF OCCURRENCE IN DEVELOPMENT'S LIFECYCLE PERIOD. 'ONCE IN A LIFETIME' EVENT.
2	UNLIKELY	NOT LIKELY TO OCCUR IN THE DEVELOPMENT'S LIFECYCLE PERIOD. A SMALL, BUT REMOTE CHANCE OF OCCURRENCE DUE TO CIRCUMSTANCES / SITUATIONS THAT COULD ARISE.
3	POSSIBLE	LIKELY TO OCCUR AT LEAST ONCE BUT NOT EXPECTED TO OCCUR MUCH MORE THAT THIS IN THE DEVELOPMENT'S LIFECYCLE PERIOD.
4	LIKELY	LIKELY TO OCCUR MORE THAN ONCE IN THE DEVELOPMENT'S LIFECYCLE PERIOD BUT NOT AN 'EVERYDAY' OCCURRENCE. PRECONDITIONS WILL ARISE AT TIMES THROUGHOUT THE PERIOD.
5	ALMOST CERTAIN	WILL OCCUR. CIRCUMSTANCES OR SITUATIONS ARE LIKELY TO ARISE OFTEN THROUGHOUT THE DEVELOPMENT'S LIFECYCLE PERIOD WHICH PROVIDES THE OPPORTUNITY FOR CRYSTALLISATION OF RISK. EXPECT FREQUENT, REGULAR OCCURRENCES.

PROJECT REPRESENTATIVE

ORGANISATION	PROJECT ROLE	MAIN CONTACT	CONTACT DETAILS
ENSPIRE SOLUTIONS	CIVIL DESIGN CONSULTANT	ROBERT HUTCHINSON	TEL: 0490533547 EMAIL: ROBERT.HUTCHINSON@ENSPIRESOLUTIONS.COM.AU ADD: LEVEL 4, 153 WALKER STREET, NORTH SYDNEY NSW 2060

SAFE DESIGN RISK REGISTER

ITEM	ACTIVITY	HAZARD	STAGE	INITIAL RISK			DESIGN ACTION	RESIDUAL RISK		
				LIKELIHOOD	CONSEQUENCE	RISK LEVEL		LIKELIHOOD	CONSEQUENCE	RISK LEVEL
1	WORKS NEAR LIVE UTILITIES	ELECTROCUTION	CONSTRUCTION	3	4	VERY HIGH	LOCATED EXISTING SERVICES AND PROVIDE PROTECTION, ISOLATE WHEN NECESSARY	1	4	HIGH
2	DUST POLLUTION AND DUST CONTROL	- POTENTIAL OF AIR AND WATER POLLUTION. - INHALATION OF DUST DURING EXCAVATION WORKS MAY CAUSE RESPIRATORY PROBLEMS WITH WORKERS AND TO THOSE USING ADJACENT OCCUPIED SPACES	CONSTRUCTION	2	4	HIGH	-CONSTRUCTION MANAGEMENT PLAN TO OUTLINE METHOD STATEMENTS FOR DEALING WITH DUST AND DEBRIS. - ENSURE DUST CONTROL HAS BEEN ESTABLISHED DURING CONSTRUCTION. EG. BY EMPLOYING WATER TRUCKS AND SPEED LIMITS. - PROVIDE SUITABLE PPE SUCH AS FACE MASKS FOR WORKERS UNDERTAKING DUTIES IN THE VICINITY OF EARTHWORKS.	2	3	MODERATE
3	SITE ACCESS	TRESPASSERS CAUSING DAMAGE OR INJURY TO SELF AND OTHERS	CONSTRUCTION	2	4	HIGH	- SITE FENCING TO BE DETAILED ON PLANS. - CONTRACTOR TO ADJUST FENCING STRATEGY TO SUIT CONSTRUCTION ACTIVITIES.	1	4	HIGH
4	WORKS NEAR SEDIMENT BASINS	FALLING INTO BASIN	CONSTRUCTION	3	2	MODERATE	- THE DESIGN OF THE SEDIMENT BASINS HAS BATTER SLOPES CONDUCIVE TO SAFE ACCESS AND EGRESS. - WARNING MARKERS PLACED AROUND BASIN.	1	2	LOW
5	PLANT OPERATION ON SITE	- PLANT-PLANT COLLISION ON SITE - COLLISION OF PLANT WITH SITE PERSONNEL	CONSTRUCTION	3	3	HIGH	- SCHEDULE WORKS SUCH THAT PLANT AND LABOUR ARE NOT WORKING IN THE SAME AREA AT THE SAME TIME. - PROVIDE TRAFFIC MANAGEMENT PLAN TO CAPTURE TRAFFIC FLOWS AND PLANT MOVEMENT.	1	3	MODERATE
6	SITE INSPECTIONS	FALLS, INJURY, COLLISION WITH CONSTRUCTION TRAFFIC	CONSTRUCTION	3	4	VERY HIGH	- COMPULSORY SAFETY INDUCTIONS PRIOR TO SITE VISITS. - PROTECTIVE CLOTHING TO BE WORN AT ALL TIMES ONSITE. - VISITORS TO BE ESCORTED THROUGHOUT SITE BY CONTRACTOR PERSONNEL AT ALL TIMES. - SITE VEHICLES TO BE APPROPRIATELY MARKED WITH FLAGS/HEADLIGHTS AND SITE LIGHTS AS PER CONTRACTOR POLICY. - DEEP OPEN EXCAVATIONS TO BE CLEARLY MARKED OR COVERED.	2	4	HIGH
7	RETAINING WALL CONSTRUCTION	- POTENTIAL FALLS FROM HEIGHT - FAILURE OF WALL DURING CONSTRUCTION	CONSTRUCTION	3	5	VERY HIGH	- PROVISION OF FENCING WHERE THERE ARE HIGH LEVEL DIFFERENCES OF MORE THAN 900mm. - SITE SHOULD BE KEPT TIDY TO AVOID TRIP HAZARDS. - GROUND CONDITIONS SHOULD BE MONITORED TO MINIMISE FAILURE OF RETAINING WALL DURING CONSTRUCTION.	2	4	HIGH
8	DELIVERY AND UNLOADING OF MATERIALS	- SITE PERSONNEL COLLISION BY VEHICLE - COLLISION OF DELIVERY VEHICLE WITH PLANT	CONSTRUCTION	2	3	MODERATE	- ENSURE TRAFFIC MANAGEMENT PLAN CONSIDERS DELIVERY AND PLANT MOVEMENT TO AVOID CLASH. - SITE PERSONNEL WEAR REFLECTIVE CLOTHING TO BECOME MORE VISIBLE ON SITE.	1	3	MODERATE
9	EXCAVATION OF UNKNOWN HAZARDOUS SUBSTANCE	POTENTIAL UNEARTHING OF HAZARDOUS SUBSTANCE SUCH AS ASBESTOS	CONSTRUCTION	1	4	HIGH	- ENSURE SURVEY IS OBTAINED TO DETERMINE IF HAZARDOUS MATERIAL IS PRESENT UNDERGROUND. - PPE IS PROVIDED IN CASE OF HAZARDOUS MATERIAL FOUND ON SITE. - ENSURE ADEQUETE MEASURES ARE SET IN PLACE TO DISPOSE HAZARDOUS MATERIAL FROM SITE.	1	3	MODERATE
10	GENERAL SITE OPERATION	FALL FROM HEIGHTS / RETAINING STRUCTURES	CONSTRUCTION / OPERATION	3	4	VERY HIGH	- APPROVED HANDRAILS / BARRIERS TO BE INSTALLED UPON COMPLETION OF RETAINING STRUCTURES DEEMED AS A RISK.	2	4	HIGH
11	EROSION AND SEDIMENT MANAGEMENT	SEDIMENT IMPACTING THE EXTERNAL ENVIRONMENT / PUBLIC AREAS. CONTAMINATION OF WATERCOURSES.	CONSTRUCTION	2	3	MODERATE	- INSTALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH 'BLUE BOOK'REQUIREMENTS	2	2	LOW
12	SHARE ROAD WITH VEHICLES INCLUDING HEAVY VEHICLES	POTENTIAL OF COLLISION WITH PEDESTRIANS, CYCLISTS AND VEHICLES	OPERATION	3	5	VERY HIGH	- ENSURE VEHICLE FLOW IS RESTRICTED WITH SPEED REDUCTION MEASURES THROUGH DESIGN. NARROW CARRIAGEWAY WILL PROMOTE SPEED DETERRENT. - INCREASE AWARENESS BY HIGHER LEVEL OF LIGHTING AND HEAVY PEDESTRIAN ACTIVITY SIGNAGE.	2	5	VERY HIGH
13	CYCLIST USING BI-DIRECTIONAL PATH AND SHARED PATH	COLLISION WITH TRAFFIC AND PEDESTRIANS	OPERATION	3	4	VERY HIGH	- PROVIDE CLEARANCES FOR CYCLISTS. - LANEMARKING AND SIGNAGE. - CLEAR SIGHT LINES	2	4	HIGH
14	DROWING IN HARBOUR	ACCIDENTAL FALLS INTO HARBOUR	OPERATION	3	5	VERY HIGH	- PROVIDE ADEQUATE SIGNAGE TO WARN PUBLIC OF DANGERS. - PROVIDE MULTIPLE OPPORTUNITIES FOR EGRESS. - PROVIDE SAFETY/RESCUE EQUIPMENT	2	4	HIGH
15	VEHICLES ENTERING PARK AREA	COLLISION BETWEEN VEHICLES, PEDESTRIANS AND CYCLISTS	OPERATION	3	4	VERY HIGH	- RESTRICT UNAUTHORISED VEHICLE ACCESS. - LIMIT MAINTENANCE VEHICLE ACCESS TO TIMES OF LOW PEDESTRIAN ACTIVITY. - CLEAR SIGHT LINES ALONG MAINTENANCE VEHICLE PATHWAYS.	1	4	HIGH
16	WATER QUALITY PIT ACCESS	- FALL FROM ENTERING THE PIT - SUFFOCATION OR ILLNESS DUE TO LACK OF VENTILATION	OPERATION	3	3	HIGH	- PROVIDE STEP IRONS NEXT TO HATCH - PERSONNEL ENTERING PIT MUST COMPLETE CONFINED SPACE TRAINING	1	3	MODERATE
17	STORMWATER PIT/PIPE MAINTENANCE	- THE STORMWATER PIPE NETWORK MAY CONTAIN HARMFUL LEVELS OF CONTAMINANTS/ ODOURS	MAINTENANCE	3	4	VERY HIGH	- ENSURE STAFF IDENTIFIED TO ACCESS STORMWATER PITS FOR MAINTENANCE HAVE COMPLETED CONFINED SPACE TRAINING	1	3	MODERATE
18	BULK EARTHWORKS EXCAVATIONS	CONTAMINATED SOILS	CONSTRUCTION	3	4	VERY HIGH	-ENSURE REMEDIAL ACTION PLAN (RAP) IS IN PLACE PRIOR TO COMMENCEMENT OF EXCAVATION, AND ALL THE RECCOMENDATIONS OF THE RAP ARE IMPLEMENTED	2	4	HIGH

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	20/10/2023	ISSUED FOR SSD	AR	RH	RL	RH
1	23/08/2023	DRAFT ISSUE	CWH	RH	-	RH

Client: we are NSW Infrastructure New South Wales

Scale:

North:

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Project: BANK STREET PARK, PYRMONT

Title: SAFETY IN DESIGN

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