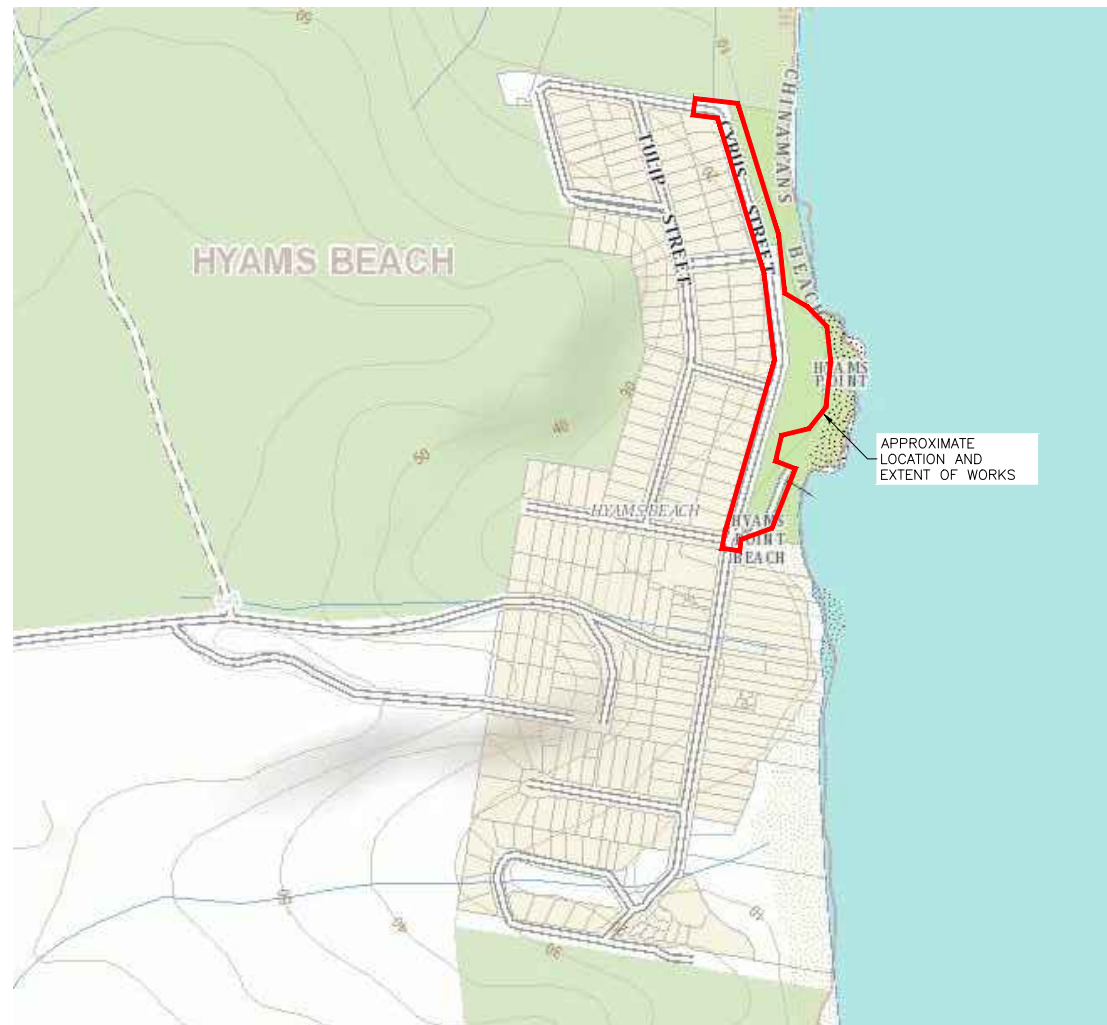


HYAMS BEACH MASTERPLAN (STAGE 1)

CIVIL ENGINEERING DRAWINGS



LOCALITY PLAN
NOT TO SCALE



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ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
TITLE SHEET

DRAWING NO. 2128-C01
ISSUE. B
SHEET 1 OF 38

City Council

SCC PLAN REFERENCE
5518.35

GENERAL:

1. READ THESE NOTES IN CONJUNCTION WITH OTHER ENGINEERING DRAWINGS AND SPECIFICATIONS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS ISSUED. REFER TO CIVIL DRAWINGS FOR SETTING OUT AND DETAILED DIMENSIONS. IN CASE OF DISCREPANCY, PRECEDENCE IS GIVEN TO DRAWINGS, THEN NOTES, THEN SPECIFICATION.
2. CARRY OUT WORK IN A SAFE MANNER IN ACCORDANCE WITH APPLICABLE STATUTORY REGULATIONS, BY-LAWS OR RULES. CONTRACTOR IS RESPONSIBLE FOR OCCUPATIONAL HEALTH AND SAFETY OF SITE PERSONNEL AND GENERAL PUBLIC IN ACCORDANCE WITH LEGISLATIVE REQUIREMENTS, INDUSTRIAL AGREEMENTS AND ACCEPTED INDUSTRY PRACTICE.
3. REFER DISCREPANCIES TO SUPERINTENDENT BEFORE PROCEEDING WITH WORK.
4. SUBMIT DETAILS OF CHANGES TO SCOPE, WORK METHODS OR MATERIALS ETC FOR APPROVAL BEFORE PROCEEDING. APPROVAL DOES NOT AUTHORISE A VARIATION TO THE CONTRACT.
5. NOMINATION OF PROPRIETARY ITEMS DOES NOT INDICATE EXCLUSIVE PREFERENCE, BUT INDICATES REQUIRED PROPERTIES OF THE ITEM. SIMILAR ALTERNATIVES HAVING THE REQUIRED PROPERTIES MAY BE OFFERED FOR APPROVAL. APPROVAL DOES NOT AUTHORISE A VARIATION TO THE CONTRACT. INSTALL PROPRIETARY ITEMS IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS.
6. OBTAIN NECESSARY PERMITS AND APPROVAL FROM RELEVANT AUTHORITIES BEFORE COMMENCING WORK ON SITE.
7. NOTIFY RELEVANT SERVICE AUTHORITIES BEFORE COMMENCING WORK ON SITE.
8. GIVE TWO WORKING DAYS (48 HOURS) NOTICE SO THAT INSPECTION MAY BE MADE OF CRITICAL STAGES OF WORK.
9. INSPECTIONS UNDERTAKEN BY SUPERINTENDENT/OTHERS DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH DRAWING AND SPECIFICATIONS.
10. DO NOT OBTAIN DIMENSIONS BY SCALING FROM DRAWING.
11. DIMENSIONS ARE IN METRES, LEVELS ARE IN METRES UNO, CHAINAGE ARE IN METRES UNO.
12. HAVE SURVEY AND SETTING OUT UNDERTAKEN BY A REGISTERED SURVEYOR.
13. TAKE CARE OF HAZARDS ASSOCIATED WITH BURIED, CONCEALED OR OVERHEAD SERVICES. TAKE PRECAUTIONS TO ESTABLISH LOCATION OF AND PROTECT EXISTING SERVICES AT THE SITE. SERVICES SHOWN ON DRAWING ARE IN APPROXIMATE LOCATIONS ONLY. SERVICES OTHER THAN THOSE SHOWN MAY EXIST ON SITE. MARK LOCATIONS OF SERVICES CLEARLY ON SITE, AND ON AS-BUILT DRAWINGS. HAND EXCAVATE WITHIN ONE METRE OF IN-GROUND SERVICES.
14. WORKMANSHIP AND MATERIALS TO COMPLY WITH REQUIREMENTS OF SAA CODES, BUILDING CODE OF AUSTRALIA AND BY-LAWS AND ORDINANCES OF RELEVANT BUILDING AUTHORITIES. ALL CODES REFERRED TO ARE THOSE CURRENT (AS AMENDED) AT COMMENCEMENT OF CONTRACT.
15. MAINTAIN STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION AND PROVIDE TEMPORARY BRACING AND/OR SUPPORT AS REQUIRED. PROVIDE SPREADERS AT LOADS AND/OR LIFTING POINTS WHERE REQUIRED. ENSURE NO PART IS OVERSTRESSED. DO NOT PLACE OR STORE BUILDING MATERIALS ON STRUCTURAL MEMBERS WITHOUT SUPERINTENDENTS APPROVAL. PROVIDE CALCULATIONS TO PROVE ADEQUACY OF STRUCTURE FOR PROPOSED CONSTRUCTION METHOD AND LOADS.
16. UNLESS NOTED OTHERWISE THESE DRAWING DO NOT DETAIL TEMPORARY WORKS. CONSTRUCTION METHODS AND TEMPORARY WORK ARE RESPONSIBILITY OF THE CONTRACTOR.
17. DISPOSE OF SURPLUS MATERIAL OFF SITE AT APPROVED LOCATION.
18. IMPLEMENT SOIL AND WATER MANAGEMENT PROCEDURES TO AVOID EROSION, CONTAMINATION AND SEDIMENTATION OF SITE, SURROUNDING AREAS AND DRAINAGE SYSTEMS IN ACCORDANCE WITH MANAGING URBAN STORMWATER:SOILS AND CONSTRUCTION.
19. OBTAIN REQUIREMENTS FOR ADJOINING ELEMENTS TO BE FIXED TO OR SUPPORTED ON WORK AND PROVIDE FOR REQUIRED FIXINGS. DRAWINGS DO NOT SHOW DETAILS OF ALL FIXTURES, INSERTS, SLEEVES, RECESSES OR OPENINGS ETC REQUIRED. PROVIDE FOR TEMPORARY SUPPORT OF ADJOINING ELEMENTS DURING CONSTRUCTION.
20. MAKE GOOD ANY DAMAGE TO EXISTING ELEMENTS PRIOR TO COMPLETION OF WORKS.
21. WHERE NEW WORK ABUTS EXISTING PROVIDE SMOOTH TRANSITION FREE OF ABRUPT CHANGES.
22. HAVE TESTING PERFORMED BY AN INDEPENDENT NATA (NATIONAL ASSOCIATION OF TESTING AUTHORITIES) ACCREDITED AUTHORITY AND PROVIDE TEST REPORTS TO SUPERINTENDENT.
23. SEPARATE METALS FROM INCOMPATIBLE MATERIALS (I.E. GALVANISED AND UNGALVANISED STEEL, TREATED TIMBER AND STEEL ETC) BY CONCEALED LAYERS OF SUITABLE INERT MATERIALS OF SUITABLE THICKNESS. USE PLASTIC SLEEVES AND WASHERS FOR BOLTS ETC.
24. BUILD FABRICATE AND PROCURE ONLY FROM DRAWING 'ISSUED FOR CONSTRUCTION'.
25. KEEP ON SITE A COMPLETE SET OF CONTRACT DOCUMENTS (INCLUDING DRAWINGS AND SPECIFICATIONS) AND SITE INSTRUCTIONS.

SITE MANAGEMENT:

1. PROVIDE BARRIERS AROUND ALL CONSTRUCTION WORKS WITHIN THE PUBLIC DOMAIN TO PROVIDE SAFE ACCESS FOR PEDESTRIANS.
2. CONCRETE PUMPS AND CRANES ARE TO OPERATE FROM WITHIN THE DESIGNATED WORK AREA AND ARE NOT TO OPERATE FROM THE PUBLIC ROADWAY UNLESS SPECIFIC COUNCIL PERMISSION IS OBTAINED.
3. DELIVERY VEHICLES MUST NOT STAND WITHIN THE PUBLIC ROADWAY FOR MORE THAN 20 MINUTES AT A TIME.
4. TOILET FACILITIES MUST BE EITHER FLUSHING TYPE OR APPROVED PORTABLE CHEMICAL CLOSET. CHEMICAL CLOSETS ARE TO BE MAINTAINED AND SERVICES ON A REGULAR BASIS SO THAT OFFENSIVE ODOUR IS NOT EMITTED.
5. TRAFFIC MANAGEMENT MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE RMS TRAFFIC CONTROL AT WORKSITES MANUAL AND AS1742, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
6. PEDESTRIAN CONTROL MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH AS1742, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ENVIRONMENTAL SITE MANAGEMENT:

1. IMPLEMENT SOIL AND WATER MANAGEMENT PROCEDURES TO AVOID EROSION, CONTAMINATION AND SEDIMENTATION OF SITE, SURROUNDING AREAS AND DRAINAGE SYSTEMS IN ACCORDANCE WITH MANAGING URBAN STORMWATER:SOILS AND CONSTRUCTION (THE BLUE BOOK). REFER TO THE BLUE BOOK FOR STANDARD DRAWING "SD" REFERENCED IN THESE NOTES.
2. SEDIMENT AND EROSION CONTROLS MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS OR DEMOLITION ACTIVITY. THE LOCATION OF SUCH DEVICES IS INDICATIVE ONLY AND FINAL POSITION SHOULD BE DETERMINED ON-SITE.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MEASURES ARE TAKEN DURING THE COURSE OF CONSTRUCTION TO PREVENT SEDIMENT EROSION AND POLLUTION OF THE DOWNSTREAM SYSTEM. SUPERINTENDENT SHOULD BE CONTACTED IF IN DOUBT. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SITE. A SEDIMENT FENCE IS TO BE PLACED DOWNSLOPE OF ALL STOCKPILES.
4. RETAIN ALL EXISTING GRASS COVER WHEREVER POSSIBLE. TOPSOIL FROM ALL AREAS THAT WILL BE DISTURBED ARE TO BE STRIPPED AND STOCKPILED AT THE NOMINATED SITE.
5. AREAS OR SITE REGRADING ARE TO BE COMPLETED PROGRESSIVELY DURING THE WORKS AND STABILISED AS EARLY AS POSSIBLE. THE SUPERINTENDENT MAY DIRECT THE CONTRACTOR TO HAVE DISTURBED AREAS COMPLETED AND STABILISED DURING THE COURSE OF THE WORKS. NOTWITHSTANDING ALL DISTURBED AREAS ARE TO BE SEEDED AND FERTILISED WITHIN 14 DAYS OF EXPOSURE.
6. ALL EXISTING TREES TO BE RETAINED UNLESS SHOWN OTHERWISE ON APPROVED DRAWINGS. TREES RETAINED ARE TO BE PROTECTED WITH A HIGH VISIBILITY FENCE, PLUS FLAGGING TO INDIVIDUAL TREES AS NECESSARY.
7. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER UNTIL SURROUNDING AREAS ARE PAVED OR REVEGETATED. GRAVEL OR GEOTEXTILE INTEL FILTERS TO BE IN ACCORDANCE WITH STANDARD DRAWING SD6-11 AND SD6-12
8. ALL SILT FENCES AND BARRIERS ARE TO BE MAINTAINED IN GOOD ORDER AND REGULARLY DESILTED DURING THE CONSTRUCTION PERIOD. SILT FENCES TO STANDARD DRAWINGS SD6-8 OR SD6-9.
9. STOCKPILES OF LOOSE MATERIALS SUCH A SAND, SOIL AND GRAVEL MUST BE COVERED WITH GEOTEXTILE. PLASTIC SHEETING OR MEMBRANE MUST NOT BE USED. SAFETY BARRICADING SHOULD BE USED TO ISOLATE STOCKPILES OF SOLID MATERIALS SUCH AS STEEL REINFORCING.
10. WASTE MATERIALS ARE TO BE STOCKPILED OR LOADED INTO SKIP BINS LOCATED ON SITE AS SHOWN ON PLAN OR IF NOT SHOWN AT A LOCATION APPROVED BY THE SUPERINTENDENT.
11. NO MORE THAN 150m OF TRENCHING IS TO BE OPEN AT ANY ONE TIME. IMMEDIATELY AFTER TRENCH BACKFILLING, PROVIDE SANDBAGS OR SAUSAGE FILTERS ACROSS EACH TRENCH AT MAXIMUM 20m INTERVALS. FILTERS TO REMAIN IN PLACE UNTIL REVEGETATION HAS OCCURRED.
12. ALL VEHICLES LEAVING THE SITE MUST PASS OVER A STABILISED SITE ACCESS BALLAST AREA (SIMILAR TO STANDARD DRAWING SD6-14) TO SHAKE OFF SITE CLAY AND SOIL. IF NECESSARY WHEELS AND AXLES ARE TO BE HOSED DOWN. BALLAST IS TO BE MAINTAINED AND REPLACED AS NECESSARY DURING THE CONSTRUCTION PERIOD.
13. THE HEAD CONTRACTOR IS TO INFORM ALL SITE STAFF AND SUB-CONTRACTORS OR THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN.
14. ANY SEDIMENT DEPOSITED ON THE PUBLIC WAY, INCLUDING FOOTPATH RESERVE AND ROAD SURFACE IS TO BE REMOVED IMMEDIATELY.
15. TRUCKS REMOVING EXCAVATED/DEMOLISHED MATERIAL SHOULD TRAVEL ON STABILISED CONSTRUCTION PATHS. MATERIAL ARE TO BE TAKEN TO THE TRUCKS TO REDUCE TRUCK MOVEMENTS ON-SITE. TRUCKS TO BE LIMITED TO SINGLE UNIT HEAVY RIGID VEHICLES (NO SEMI-TRAILERS).
16. DURING TRENCH EXCAVATION ALL SPOIL SHALL BE MOUNDED ON THE UPHILL SIDE OF TRENCHES AND PLACEMENT IS TO COMPLY WITH THE SUPERINTENDENTS REQUIREMENT.
17. DIVERSION BANKS SHOULD BE CONSTRUCTED BY MOUNDING STRIPPED TOPSOIL (MIN HEIGHT 600mm) WHERE DIRECTED. MATERIAL TO BE RESPREAD ON FOOTWAYS AFTER FINAL TRIMMING.
18. UNDISTURBED BUFFER ZONE AREAS ARE TO BE CLOSED TO ALL TRAFFIC MOVEMENTS UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.

EARTHWORKS:

1. EARTHWORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS AND ANY GEOTECHNICAL ENGINEERS RECOMMENDATIONS. THE DESIGN AS DETAILED ON THESE DRAWINGS ASSUMES A PROPERLY PREPARED UNIFORM AND STABLE SUBGRADE.
2. THE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ANY GEOTECHNICAL REPORT PREPARED FOR THE WORKS.
3. STRIP OFF ALL VEGETATION, RUBBISH AND TOPSOIL CONTAINING ORGANIC OR ROOT MATTER FROM THE AREA OF THE WORKS AND REMOVE FROM SITE/STOCKPILE FOR RE-USE.
4. PRIOR TO ANY FILLING, THE EXPOSED SUBGRADE SHALL BE PROOF ROLLED WITH A MINIMUM OF 10 PASSES OF A 5 TONNE (MIN) DEAD WEIGHT VIBRATING ROLLER IN THE PRESENCE OF THE SUPERINTENDENT OR GEOTECHNICAL ENGINEER AND ANY SOFT OR YIELDING MATERIALS REMOVED AND REPLACED WITH APPROVED FILLING COMPACTED AS HEREAFTER SPECIFIED.
5. FILL SHALL BE SOUND WELL GRADED MATERIAL WITH A HIGH GRANULAR CONTENT AND SHALL BE THE BEST OF EXCAVATED MATERIALS FROM THE SITE, OR APPROVED SOUND IMPORTED MATERIAL FREE OF RUBBISH, PLASTIC CLAY OR LARGE PIECES THAT WOULD PRECLUDE COMPACTION.
6. FILL SHALL BE SPREAD IN LAYERS NOT EXCEEDING 200mm AND COMPACTED USING SUITABLE MECHANICAL EQUIPMENT AT OPTIMUM MOISTURE CONTENT ±2 % TO NOT LESS THAN 100% STANDARD MAXIMUM DRY DENSITY (SMDD) IN ACCORDANCE WITH AS1289 – E11 UNLESS OTHERWISE NOTED OR INSTRUCTED BY THE GEOTECHNICAL ENGINEER.
7. DENSITY TESTING OF FILLING SHALL BE CARRIED OUT AT THE RATE NOMINATED BY THE GEOTECHNICAL ENGINEER AND SHALL BE UNDERTAKEN BY A NATA REGISTERED LABORATORY. ALL TESTING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL PROGRAM AND UNDERTAKE THE EARTHWORKS OPERATIONS SUCH THAT WORKING AREAS ARE ADEQUATELY DRAINED DURING CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THESE REQUIREMENTS SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.

CONCRETE:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND AS 3610. CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. ALL CEMENT TO BE TYPE GP, GENERAL PURPOSE CEMENT IN ACCORDANCE WITH AS3972
3. PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3600
4. DETAILS OF THE PROPOSED MIX ARE TO BE SUBMITTED & APPROVAL OBTAINED PRIOR TO POURING ANY CONCRETE.
5. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
6. MINIMUM CLEAR COVER TO ALL REINFORCEMENT SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:

ELEMENT	STRENGTH GRADE (MPa)	SLUMP (mm)	MAX AGGREG. SIZE (mm)	CAST AGAINST GROUND (mm)	CAST IN FORMS AND NOT EXPOSED (mm)	CAST IN FORMS AND EXPOSED (mm)
FOOTPATH	25	80	20	50	50	50
PITS	20	80	20	50	50	50
STAIRS	40	80	20	50	50	50

7. CONCRETE SIZES/DIMENSIONS SHOWN DO NOT INCLUDE THE THICKNESS OF ANY APPLIED FINISHES. NO FINISH THAT DECREASES COVER IS PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT/ENGINEER.
8. MAINTAIN COVER TO REINFORCEMENT AT CHAMFERS, DRIP GROOVED, REGLETS ETC
9. NO HOLES, CHASES, BLOCKOUT, DUCTS OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE SUPERINTENDENT/ENGINEER.
10. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE SUPERINTENDENT/ENGINEER.
11. ALL CONCRETE MEMBERS SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK AND THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS.
12. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF THREE DAYS, AND THE PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT.
13. CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.
14. ALL CONCRETE SHALL BE PLACED IN SUCH A MANNER SO AS TO AVOID SEGREGATION OR LOSS OF MATERIALS.
15. UNDER NO CIRCUMSTANCES SHALL EXCESS CONCRETE BE DISPOSED OF ON-SITE. ALL EXCESS CONCRETE MUST BE CARTED FROM SITE AND DISPOSED OF IN AN APPROPRIATE MANNER.
16. WATER USED FOR FLUSHING CHUTES AND FOR CLEANING OF CONCRETE TRUCKS AND EQUIPMENT MUST BE DISCHARGED IN AN AREA DESIGNATED FOR THAT PURPOSE AND WHICH HAS EROSION AND SEDIMENT CONTROL MEASURES IN PLACE.

REINFORCEMENT:

1. REINFORCEMENT SYMBOLS:
 - R DENOTES GRADE 250 R HOT ROLLED PLAIN BARS TO AS1302
 - F DENOTES GRADE 450 F HARD-DRAWN WIRE REINFORCING FABRIC TO AS1304
 - W DENOTES GRADE 450 W HARD-DRAWN PLAIN WIRE TO AS1303
 - N DENOTES DEFORMED BAR NORMAL DUCTILITY TO AS/NZS 4671 GRADE D500N
 - L DENOTES DEFORMED BAR LOW DUCTILITY TO AS/NZS 4671 GRADE D500L
 - RN DENOTES RECTANGULAR WIRE MESH NORMAL DUCTILITY TO AS/NZS 4671
 - RL DENOTES RECTANGULAR WIRE MESH LOW DUCTILITY
 - SN DENOTES SQUARE WIRE MESH NORMAL DUCTILITY
 - SL DENOTES SQUARE WIRE MESH LOW DUCTILITY TO AS/NZS 4671
2. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
3. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
4. LAPS SHALL BE IN ACCORDANCE WITH AS 3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.
5. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE SUPERINTENDENT.
6. MINIMUM FABRIC LAP SHALL BE TWO TRANSVERSE WIRES PLUS 50mm. WHERE FABRIC LAPS, SHEETS TO HAVE MAXIMUM 2 LAYERS AT ANY POINT, CUT BACK FABRIC AT CORNERS AS REQUIRED.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAP WITH MAIN BARS 400mm UNLESS NOTED.
8. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC BAR CHAIRS OR CONCRETE CHAIRS AND NOT GREATER THAN 1 METRE CENTRES BOTH WAYS (800 EACH WAY FOR FABRIC).
9. ALL RE-ENTRANT CORNERS TO HAVE 600 x 600mm N12 L-BARS TIED TO EACH LAYER OF MESH

SURVEY MARK PROTECTION:

1. IN ACCORDANCE WITH SECTION 24(1) OF THE SURVEYING AND SPATIAL INFORMATION ACT 2002 A PERSON MUST NOT REMOVE, DAMAGE, DESTROY, DISPLACE, OBLITERATE OR DEFACE ANY SURVEY MARK UNLESS AUTHORIZED TO DO SO BY THE SURVEYOR GENERAL. IN THIS REGARD ANY PROPOSED CONSTRUCTION WORK THAT MAY AFFECT A STATE SURVEY MARK CANNOT BE UNDERTAKEN UNTIL A REGISTERED SURVEYOR IS ENGAGED TO ARRANGE ITS RELOCATION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE NSW GOVERNMENT LAND AND PROPERTY INFORMATION.
2. REFER TO SURVEY MARK AUDIT SCHEDULE FOR ADDITIONAL INFORMATION PERTAINING TO PROTECTION AND RELOCATION OF EXISTING SURVEY MARKS.

FORMWORK:

1. RESPONSIBILITY FOR DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF FORMWORK AND FALSEWORK LIES WITH CONTRACTOR.
2. DO NOT SUPPORT OR RESTRAIN FORMWORK ON PERMANENT WORKS WITHOUT SUPERINTENDENTS WRITTEN APPROVAL.
3. CONSTRUCT FORMWORK TO COMPLY WITH AS3610 AND CLAUSE 19.6.2 OF AS3600 WHERE THIS IS MORE STRINGENT SO CONCRETE WILL HAVE DIMENSIONS, SHAPE, LOCATION AND FINISH SPECIFIED. PROVIDE OPENINGS OR REMOVABLE PANELS FOR INSPECTION AND CLEANING. APPLY RELEASE AGENT COMPATIBLE WITH CONTACT SURFACES TO INTERIOR OR FORMWORK (EXCEPT WHERE CONCRETE IS TO RECEIVE AND APPLIED FINISH FOR WHICH THERE IS NO COMPATIBLE RELEASE AGENT). WHERE NECESSARY CLEAN REINFORCEMENT TO REMOVE TRACES OF RELEASE AGENT. SEAL JOINT BETWEEN FORMWORK PANELS, AND TO HARDENED CONCRETE WITH FLEXIBLE RUBBER STRIP. SET OUT FORMWORK TO GIVE A REGULAR ARRANGEMENT OF PANELS, JOINT, BOLT HOLES ETC.
4. DO NOT USE FORMWORK HARDWARE THAT FORMS A COMPLETE HOLE THROUGH CONCRETE ELEMENTS. DO NOT USE REINFORCEMENT TO SUPPORT FORMWORK.
5. PROVIDE HOLES IN REBATE FORMERS ETC AS REQUIRED TO PREVENT AIR ENTRAPMENT.
6. CONSTRUCTION TOLERANCES TO BE TO AS3610.
7. STRIP FORMWORK TO AS3600 CLAUSE 19.6. REMOVE FROM TIE BOLTS WITHOUT DAMAGING CONCRETE. PARTS OF BOLTS LEFT IN CONCRETE MUST NOT INTRUDE INTO COVER CONCRETE. FLUSH FILL HOLES USING PRE-MIXED NON-SHRINK CEMENTITIOUS REPAIR MORTAR MATCHING CONCRETE SURFACE COLOUR, STRENGTH AND DURABILITY AND ADEQUATE BOND.

STORMWATER DRAINAGE

1. ALL STORMWATER WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CURRENT EDITION OF AS3500.3.
2. THE CONTRACTOR IS TO VERIFY THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION.
3. THE CONTRACTOR SHALL CONFIRM ALL INVERTS AND GRADES PRIOR TO CONSTRUCTION.
4. MATERIAL TO BE USED FOR BEDDING OF PIPES SHALL BE APPROVED NON-COHESIVE GRANULAR MATERIAL HAVING HIGH PERMEABILITY AND HIGH STABILITY WHEN SATURATED AND FREE OF ORGANIC AND CLAY MATERIAL.
5. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MINIMUM 50mm CONCRETE BED (OR 75mm THICK BED OF BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK.
6. BEDDING SHALL BE TYPE HS2 UNDER ROADS AND H2 IN ALL OTHER AREAS IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS AND GUIDELINES.
7. PROVIDE MIN 300mm COVER TO PIPES NOT SUBJECT TO VEHICULAR LOADING TO AREAS WITHOUT PAVEMENT AND 500mm COVER IN AREAS SUBJECT TO VEHICULAR LOADING.
8. PROVIDE SEPARATION BETWEEN SERVICES IN ACCORDANCE WITH AS3500.
9. COVERS: USE HOT DIPPED GALVANISED COVERS AND GRATES COMPLYING WITH RELEVANT AUSTRALIAN STANDARDS. UNLESS DETAILED OR SPECIFIED OTHERWISE COVERS AND GRATES TO BE CLASS "c" IN VEHICULAR PAVEMENTS AND CLASS "b" ELSEWHERE.
10. ALL PIPE BENDS, JUNCTIONS ETC ARE TO BE PROVIDED USING PURPOSE MADE FITTINGS OR STORMWATER PITS.
11. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
12. PIT DIMENSIONS SHALL BE IN ACCORDANCE WITH AS3500.3-2018 TABLE 7.5.2.1. ALL BASES OR PITS TO BE BENCHED TO HALF PIPE DEPTH.
13. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE PIPE PENETRATION CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
14. PITS GREATER THAN 1.2m DEEP ARE TO BE FITTED WITH STEP IRONS.
15. ALL PIPES SHALL BE RUBBER RING JOINTED UNLESS NOTED OTHERWISE. FOR PIPES LAID ON CURVES USE LONG PIPE WITH LONG JOINT PIPE SOCKETS.
16. THE CONTRACTOR SHALL PROTECT THE INTEGRITY OF ALL STORMWATER PIPE AND DRAINAGE STRUCTURES DURING CONSTRUCTION. ANY AND ALL DAMAGE AS A RESULT OF THE WORKS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE SUPERINTENDENT AT FULL COST OF THE CONTRACTOR.

TREE PRESERVATION:


1. PRIOR TO THE COMMENCEMENT OF WORKS ON SITE, EXISTING TREES TO BE RETAINED ARE TO BE PROTECTED FROM DAMAGE AND FENCED OFF WITH TEMPORARY FENCING OR SIMILAR APPROVED EQUIVALENT. THE FENCING SHOULD ALIGN WITH THE DRIP LINE OF THE TREE CANOPY AND ANY VARIATION SHALL BE AT THE APPROVAL OF AN AQFS ARBORIST.
2. ALL CARE MUST BE TAKEN TO ENSURE TREE HEALTH IS PROTECTED INCLUDING, BUT NOT LIMITED TO:
 - NO STORAGE OF MATERIALS WITH TREE PROTECTION ZONE (TPZ). NO OIL, BITUMEN, CEMENT, PAINT OR OTHER MATERIALS BE ALLOWED TO CONTAMINATE TPZ; NO MIXING OF CONCRETE, MORTAR OR WASHING PAINTING EQUIPMENT TO OCCUR WITHIN TPZ OR AREA DRAINING TOWARDS TPZ
 - NO LEVEL CHANGES WITHIN TPZ UNLESS NOMINATED ON PLAN OR APPROVED BY AQFS ARBORIST
 - NO ATTACHMENT OF ROPES, GUYS, CABLES OR NOTICE BOARDS TO ANY TREE
3. ALL EXCAVATION WITH TREE PROTECTION ZONES OF EXISTING BANGALAYS IS TO BE OVERSEEN BY AN AQFS ARBORIST.
4. ALL EXPOSED ROOTS AND ROOT MASS MUST BE COVERED AND KEPT MOIST IMMEDIATELY TO REDUCE DRYING (AND TO PROTECT THEM FOR DIRECT SUNLIGHT EXPOSURE), BY USING MATERIALS SUCH AS JUTE MESH OR HESSIAN AS PER AS4970-2009.
5. EXPOSED ROOTS MUST NOT BE TRAVERSED OVER BY MECHANISED HEAVY EQUIPMENT. SEEK AQFS ARBORIST ADVICE ON ADDITIONAL ROOT PROTECTION MEASURES WHERE THERE IS A REQUIREMENT TO USE HEAVY EQUIPMENT WITHIN THE TPZ
6. CONSULT AQFS ARBORIST FOR CUTTING ROOTS OF ANY SIZE WITHIN THE TPZ AND CUTTING OF ANY ROOTS >40mm OUTSIDE OF TPZ.

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HYAMS BEACH MASTERPLAN (STAGE 1)

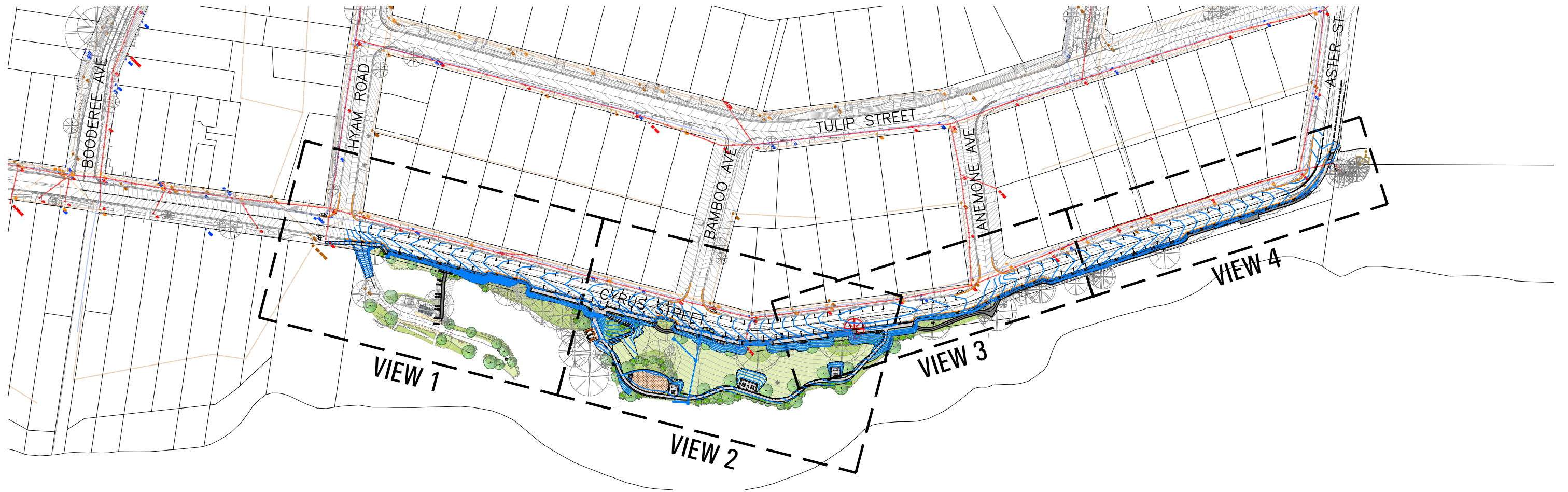
CIVIL ENGINEERING DRAWINGS

NOTES

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SHEET	2 OF 38

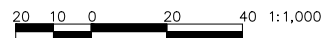


SCC PLAN REFERENCE
5518.36



GENERAL ARRANGEMENT PLAN

SCALE 1:1,000 @ A1, 1:2,000 @ A3



Original sheet size A1



EXISTING FEATURES LEGEND

- EXISTING PROPERTY/ROAD BOUNDARY (NOT SURVEYED)
- EXISTING ROAD CENTRELINE/CROWN
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD FORMATION/SHOULDER
- EXISTING KERB AND GUTTER
- EXISTING TOP OF BATTER
- EXISTING BOTTOM OF BATTER
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING FENCE
- EXISTING CONTOURS (0.2m INTERVAL)
- EXISTING TREE (TO BE RETAINED)
- EXISTING TREE (TO BE REMOVED)

EXISTING SERVICES LEGEND

- EXISTING TELECOMMUNICATIONS SERVICES
- EXISTING SEWER
- EXISTING WATER MAINS
- EXISTING UNDERGROUND POWER
- EXISTING OVERHEAD POWER

* REFER TO SHEETS C04 - C06 FOR SURVEY AND SERVICES PLANS



AS5488-2013 QUALITY LEVEL

- C
- C
- C
- C
- N/A

PROPOSED STRUCTURES LEGEND

- PROPOSED ROAD/PATH CENTRELINE
- PROPOSED BARRIER KERB AND GUTTER
- PROPOSED LINEMARKING
- PROPOSED TOP OF BATTER
- PROPOSED TOE OF BATTER
- PROPOSED CONCRETE PATHWAY
- PROPOSED BOARDWALK
- PROPOSED RETAINING WALL
- FUTURE PATHWAY
- PROPOSED STORMWATER PIPE AND PIT
- FINISHED SURFACE CONTOURS (0.2m INTERVAL)

* REFER TO SHEETS C09 - C11 FOR PROPOSED LAYOUT PLANS

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HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
GENERAL ARRANGEMENT PLAN

DRAWING NO. 2128-C03
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5518.37



SURVEY AND SERVICES PLAN – VIEW 1
 SCALE 1:200 @ A1, 1:400 @ A3



Original sheet size A1

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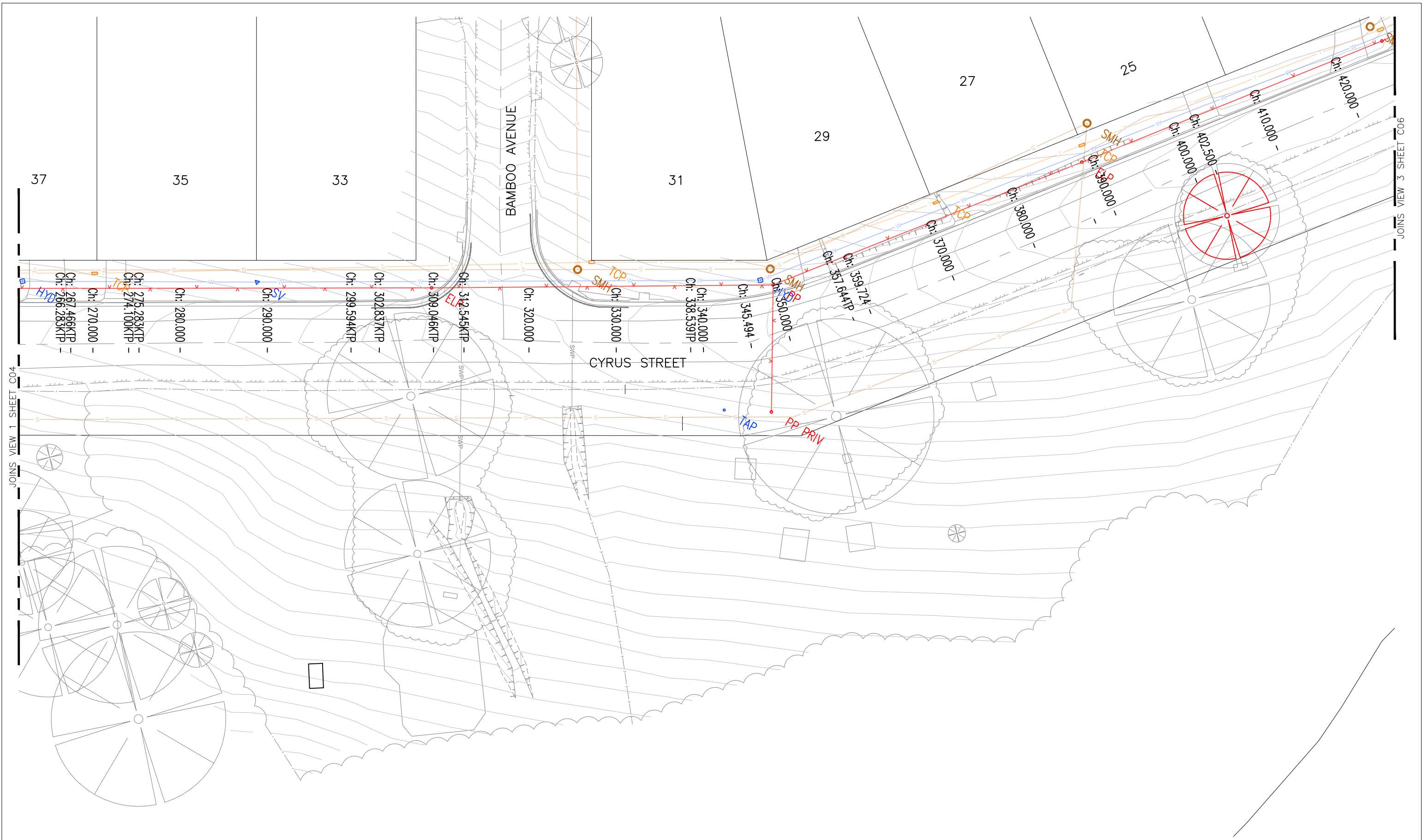
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HYAMS BEACH MASTERPLAN (STAGE 1)
 CIVIL ENGINEERING DRAWINGS
 SURVEY AND SERVICES PLAN - VIEW 1

DRAWING NO. 2128-C04
ISSUE. B
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5518.38

JOINS VIEW 2 SHEET C05



SURVEY AND SERVICES PLAN – VIEW 2
 SCALE 1:200 @ A1, 1:400 @ A3



Original sheet size A1

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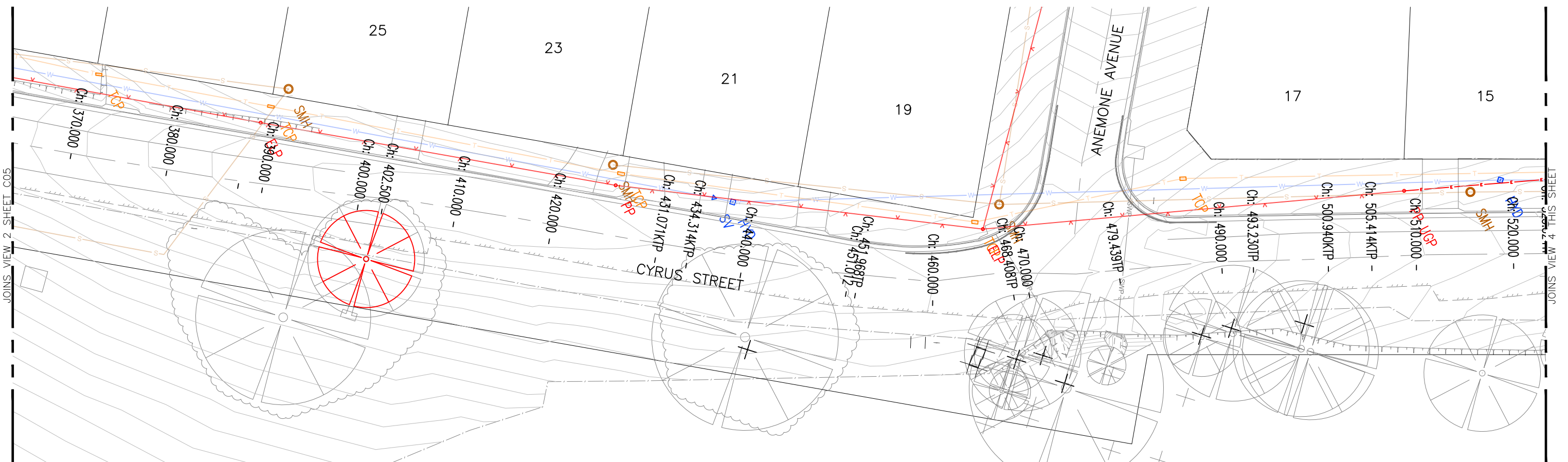
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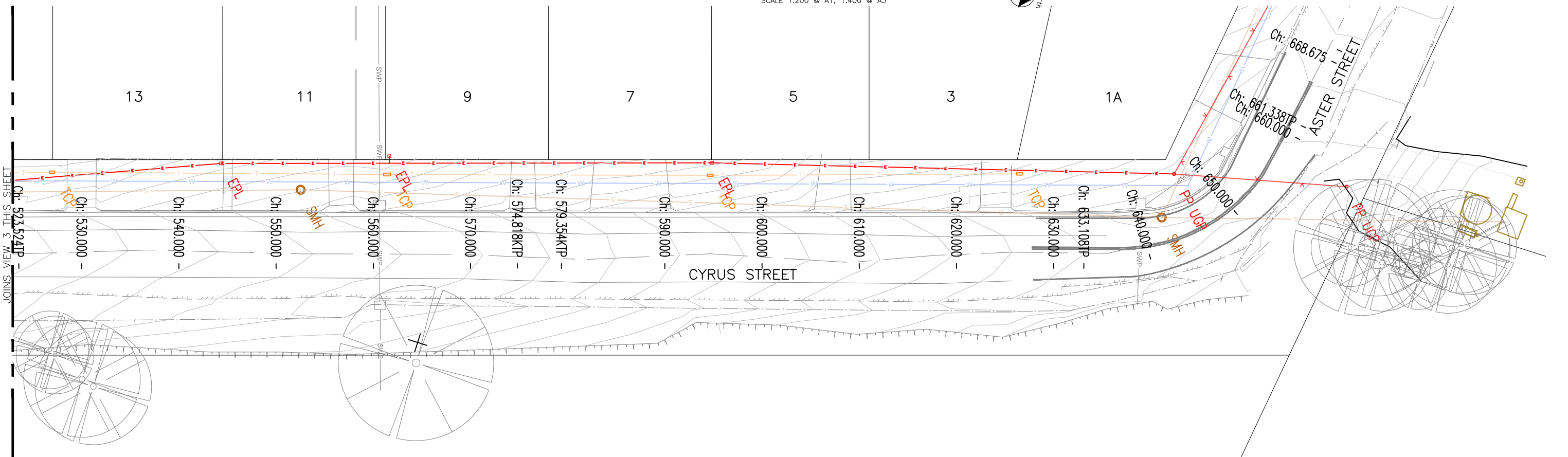
HYAMS BEACH MASTERPLAN (STAGE 1)
 CIVIL ENGINEERING DRAWINGS
 SURVEY AND SERVICES PLAN - VIEW 2

DRAWING NO. 2128-C05	 SCC PLAN REFERENCE 5518.39
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SHEET 5 OF 38	



SURVEY AND SERVICES PLAN - VIEW 3

SCALE 1:200 @ A1, 1:400 @ A3



SURVEY AND SERVICES PLAN - VIEW 4

SCALE 1:200 @ A1, 1:400 @ A3



Original sheet size A1

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HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
SURVEY AND SERVICES PLAN - VIEWS 3 AND 4

DRAWING NO. 2128-C06	
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SCC PLAN REFERENCE
5518.40

ESCP LEGEND

-  FILTER ROLL KERB INLET SEDIMENT TRAP
-  SANDBAG KERB INLET SEDIMENT TRAP
-  SEDIMENT FENCE

GENERAL REQUIREMENTS

THE FOLLOWING EROSION AND SEDIMENT CONTROL PLAN (ESCP) HAS BEEN DEVELOPED IN GENERAL ACCORDANCE WITH LANDCOM (2004) – MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION, OTHERWISE KNOWN AS "THE BLUE BOOK". THE CONTRACTOR SHALL BE AT ALL TIMES RESPONSIBLE FOR TAILORING THE EROSION AND SEDIMENT CONTROL PLAN TO SUIT SITE CONDITIONS. AS CONSTRUCTION PROGRESSES THE CONTRACTOR SHALL AMEND THE EROSION AND SEDIMENT CONTROL PLAN ACCORDINGLY. IT IS THE CONTRACTOR'S RESPONSIBILITY ALL TIMES TO ENSURE THAT THE EROSION AND SEDIMENT MANAGEMENT MEASURES COMPLY WITH THE REQUIREMENTS OF THE BLUE BOOK.

SITE ESTABLISHMENT

PRIOR TO THE COMMENCEMENT OF EARTHWORKS ON THE SITE THE FOLLOWING SHALL BE UNDERTAKEN AS A MINIMUM:

1. ERECT SAFETY FENCING WITH SIGNAGE CLEARLY INDICATING THAT THE SITE IS A CONSTRUCTION ZONE AND ACCESS IS RESTRICTED AS DEEMED NECESSARY.
2. ERECT CLEARLY VISIBLE BARRIER FENCING AT LOCATIONS SHOWN OR IF NOT SHOWN AT THE DISCRETION OF THE SITE SUPERINTENDENT TO ENSURE TRAFFIC IS CONTROLLED AND TO PROHIBIT UNNECESSARY SITE DISTURBANCE.
3. INSTALL STABILISED SITE ACCESS IN ACCORDANCE WITH STANDARD DRAWING SD6-14 AT EACH SITE ACCESS POINT TO PREVENT CONSTRUCTION EQUIPMENT FROM CARRYING SEDIMENT OFF THE SITE ONTO SURROUNDING ROADS.
4. INSTALL SEDIMENT AND EROSION CONTROL DEVICES IN ACCORDANCE WITH THE CONSTRUCTION DETAILS SPECIFIED IN THIS DRAWING SET AND/OR THE REQUIREMENTS OF THE 'BLUE BOOK'.

CONSTRUCTION

5. TOPSOIL, FROM ALL AREAS TO BE DISTURBED, SHALL BE STRIPPED PRIOR TO CONSTRUCTION OF ANY WORKS AND STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN LOCATIONS WHERE SHOWN ON THIS DRAWING. TOPSOIL SHALL BE STOCKPILED IN WINDROWS OUTSIDE OF MAJOR FLOW AREAS.
6. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
7. ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION. HAY BALES SHALL BE PLACED AS A SEDIMENTATION CONTROL DEVICE WHERE REQUIRED.
8. ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS ARE COMPLETED. TOPSOIL SHALL BE AMELIORATED AND COMPOSTED TO LANDSCAPE ARCHITECTS SPECIFICATIONS.
9. INLET FILTERS WILL BE INSTALLED WHERE SHOWN TO PREVENT WATER FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE. IF THE LOCATION OF INLET FILTERS ARE NOT SHOWN ON THE PLAN THEIR LOCATION SHALL BE AT THE DISCRETION OF THE SUPERINTENDENT.

STOCKPILES

10. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED NO CLOSER THAN 5m FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
11. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 10 DAYS THEN THEY SHALL BE STABILISED BY COVERING WITH MULCH OR WITH TEMPORARY VEGETATION.
12. STOCKPILES SHALL BE IN WINDROWS NO HIGHER THAN 2m HIGH AND SHALL HAVE BATTER SLOPES NO STEEPER THAN 1 IN 2. AN EARTH BANK SHALL BE INSTALLED ON THE UPSLOPE SIDE AND SEDIMENT FENCING SHALL BE INSTALLED ALONG THE LENGTH OF THE DOWNSLOPE SIDE ON ANY STOCKPILE.

MAINTENANCE

13. ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE STRUCTURES ARE A MAXIMUM OF 80% FULL OF SOLID MATERIALS (INCLUDING DURING THE MAINTENANCE PERIOD) AND DISPOSED OF IN A MANNER THAT PREVENTS FURTHER POLLUTION OF THE SITE.
14. TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE PROTECTING, ARE COMPLETELY REHABILITATED.
15. THE CONTRACTOR WILL INSPECT THE SITE AT LEAST WEEKLY OR AFTER ANY STORM EVENT AND WILL:
 - ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS;
 - REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS (E.G. LANDS CLOSER THAN FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY DRAINS, WATERWAYS AND PAVED AREAS);
 - REMOVE TRAPPED SEDIMENT WHENEVER LESS THAN DESIGN CAPACITY REMAINS WITHIN THE STRUCTURE;
 - ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS APPROPRIATE;
 - CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS REQUIRED;
 - MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED; AND
 - REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.
16. A SELF-AUDITING PROGRAM WILL BE ESTABLISHED BASED ON A CHECK SHEET. A SITE INSPECTION USING THE CHECK SHEET WILL BE MADE BY THE CONTRACTOR:
 - AT LEAST WEEKLY;
 - IMMEDIATELY BEFORE SITE CLOSURE;
 - IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL.
 - ENTRIES WILL INCLUDE (BUT ARE NOT LIMITED TO):
 - a. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS;
 - b. THE CONDITION AND MAINTENANCE OF ANY SOIL AND WATER MANAGEMENT PLAN WORKS;
 - c. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE;
 - d. THE NEED FOR DUST PREVENTION STRATEGIES; AND
 - e. ANY REMEDIAL WORKS TO BE UNDERTAKEN.
 - A SIGNED DUPLICATE OF THE CHECK SHEET SHOULD BE FORWARDED TO THE PROJECT MANAGER WEEKLY FOR THEIR INFORMATION. ALL CHECK SHEETS SHOULD BE COLLATED, KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON ON REQUEST.

SEQUENCE OF WORKS:

1. INSTALL SOIL AND WATER MANAGEMENT MEASURES AS DETAILED.
2. UNDERTAKE DEMOLITION AS REQUIRED
3. UNDERTAKE EARTHWORKS
4. UNDERTAKE DRAINAGE WORKS
5. UNDERTAKE ROADWORKS
6. UNDERTAKE LANDSCAPING WORKS
7. REMOVE MANAGEMENT DEVICES ON SUCCESSFUL REHABILITATION.

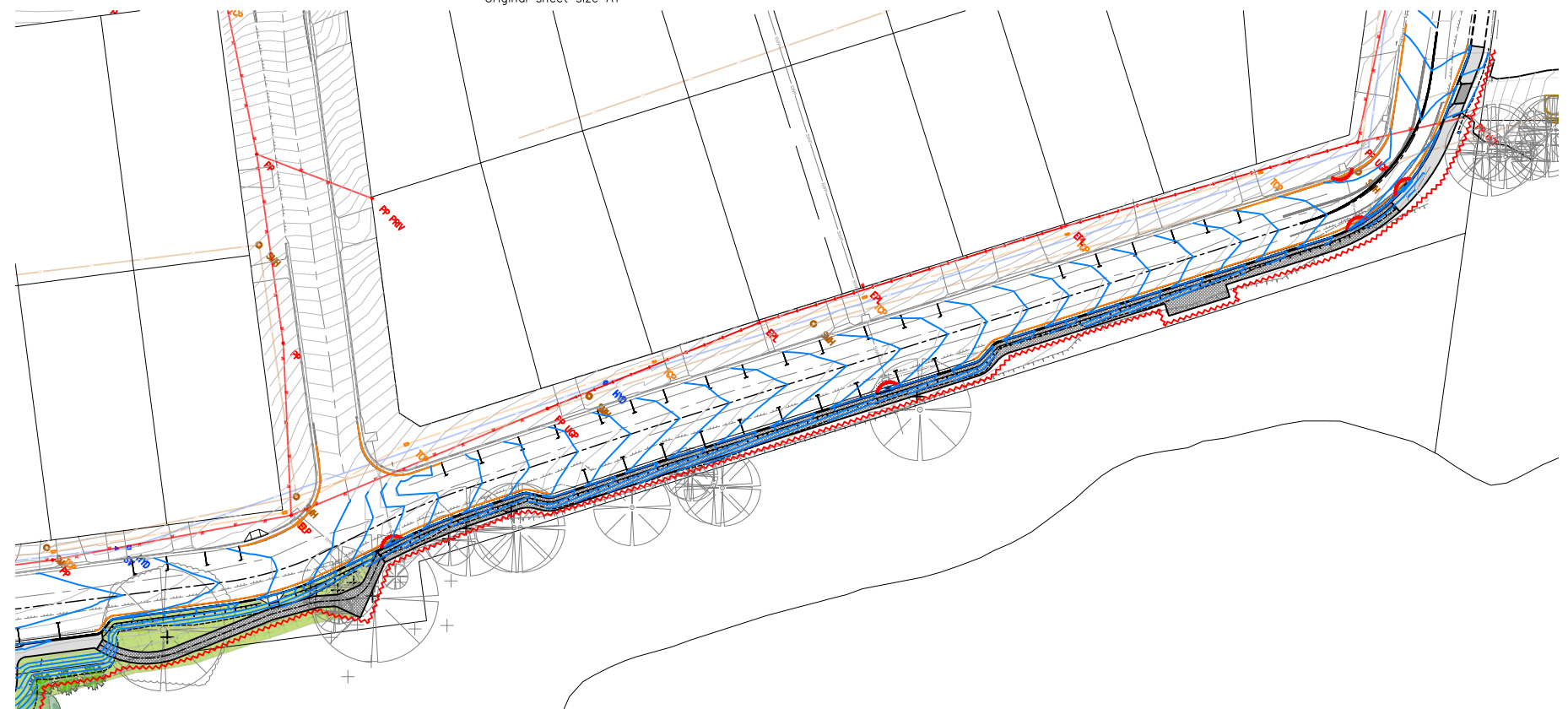


EROSION AND SEDIMENT PRINCIPLES PLAN – VIEW 1

SCALE 1:500 @ A1, 1:1,000 @ A3

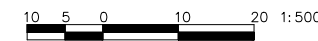


Original sheet size A1



EROSION AND SEDIMENT PRINCIPLES PLAN – VIEW 2

SCALE 1:500 @ A1, 1:1,000 @ A3



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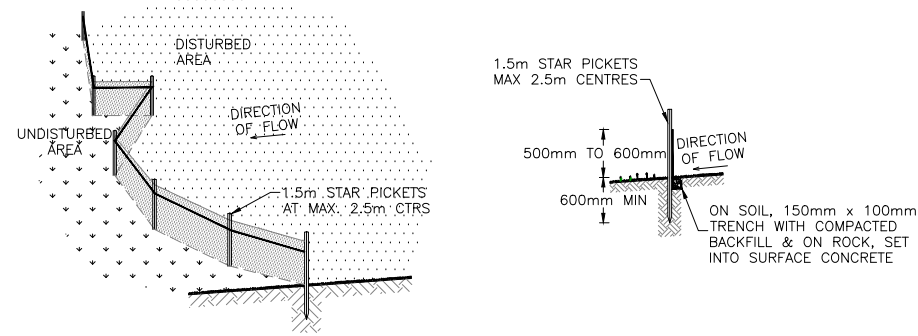
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HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
EROSION AND SEDIMENT CONTROL PRINCIPLES PLAN

DRAWING NO. 2128-C07
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SHEET 7 OF 38



SCC PLAN REFERENCE
5518.41

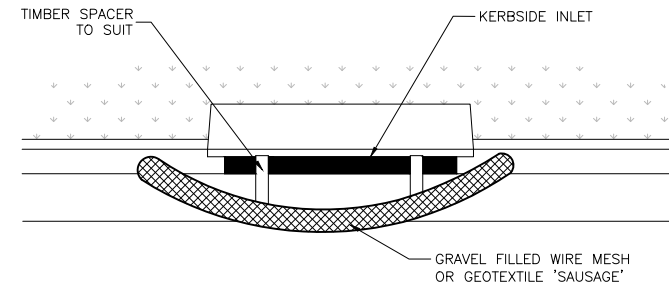


SEDIMENT CONTROL FENCE DETAIL

NTS

SEDIMENT FENCE 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 10YR 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 1.5m LONG STAR PICKETS INTO THE GROUND AT 2.5m 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.

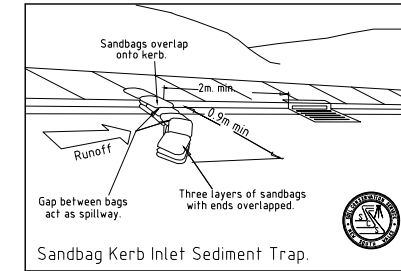


FILTER ROLL DETAIL

NTS

FILTER ROLL CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST 100mm SPACE BETWEEN IT AND THE KERB INLET.
5. FORM A SEAL WITH THE KERB AT EACH END TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN BE SUBSTITUTED FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT LADEN WATERS CANNOT PASS BETWEEN.



Sandbag Kerb Inlet Sediment Trap.

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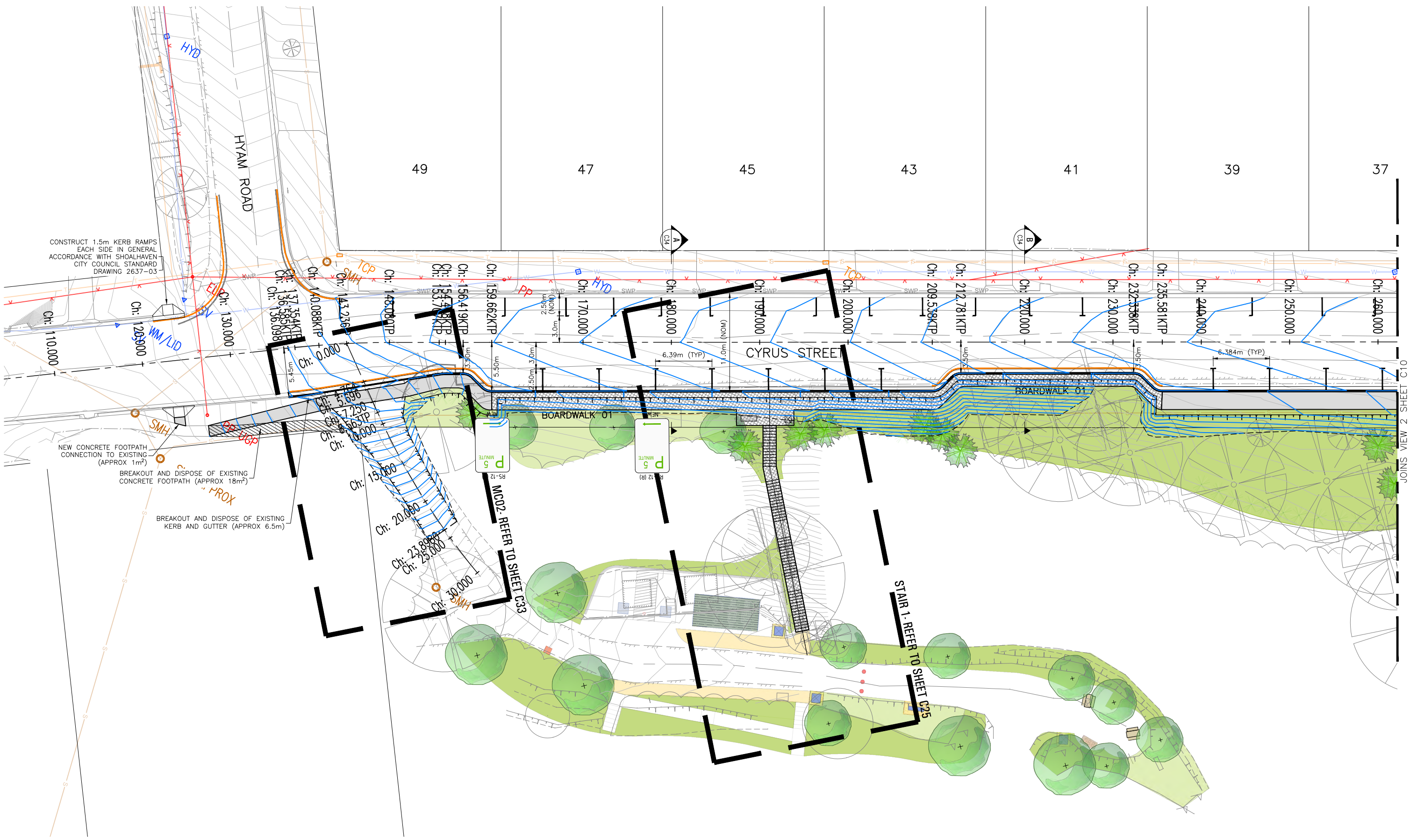
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HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
EROSION AND SEDIMENT CONTROL DETAILS

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LAYOUT PLAN – VIEW 1
SCALE 1:200 @ A1, 1:400 @ A3

4 2 0 4 8 1:200

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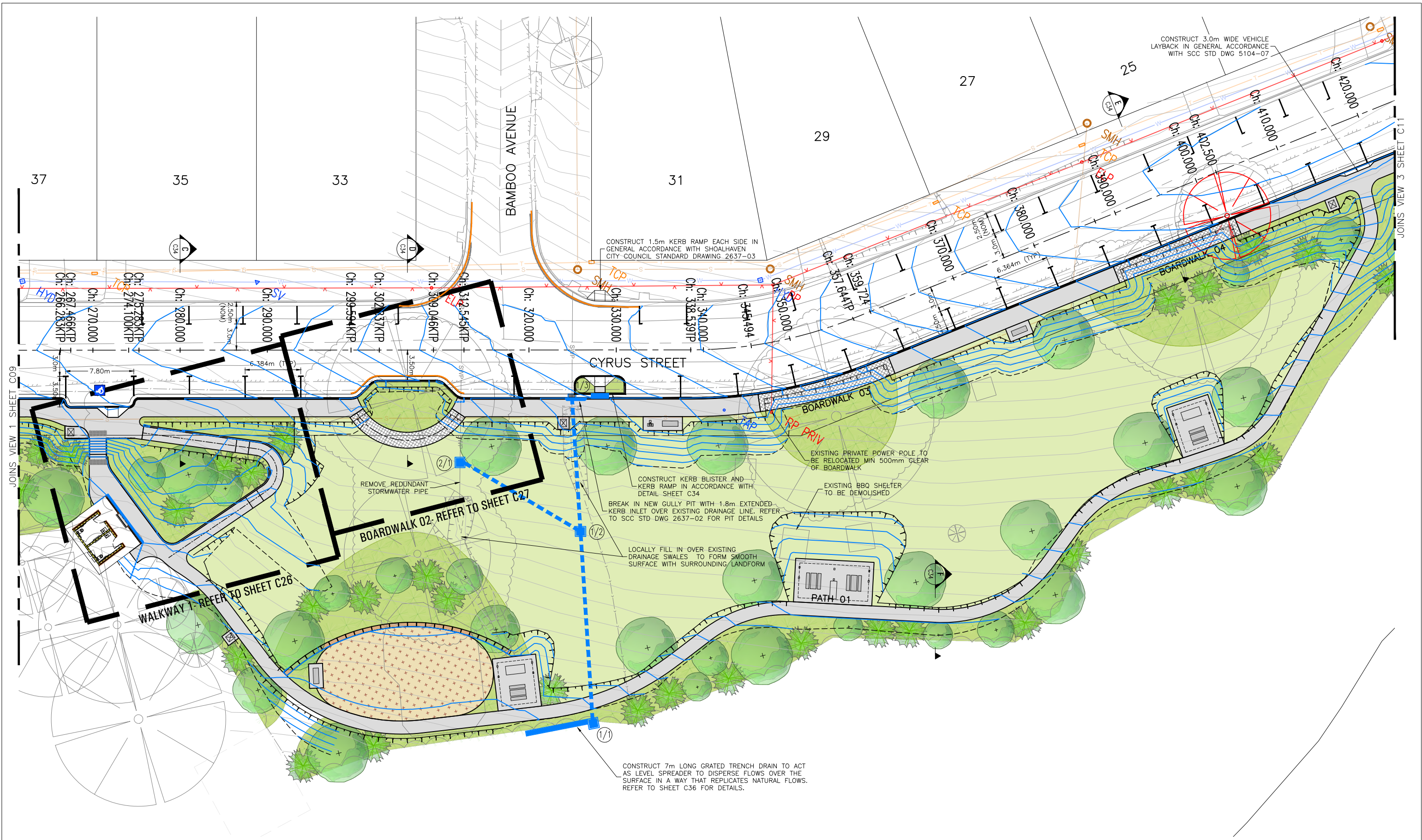
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HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
LAYOUT PLAN - VIEW 1

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JOINS VIEW 2 SHEET C10



LAYOUT PLAN – VIEW 2
SCALE 1:200 @ A1, 1:400 @ A3

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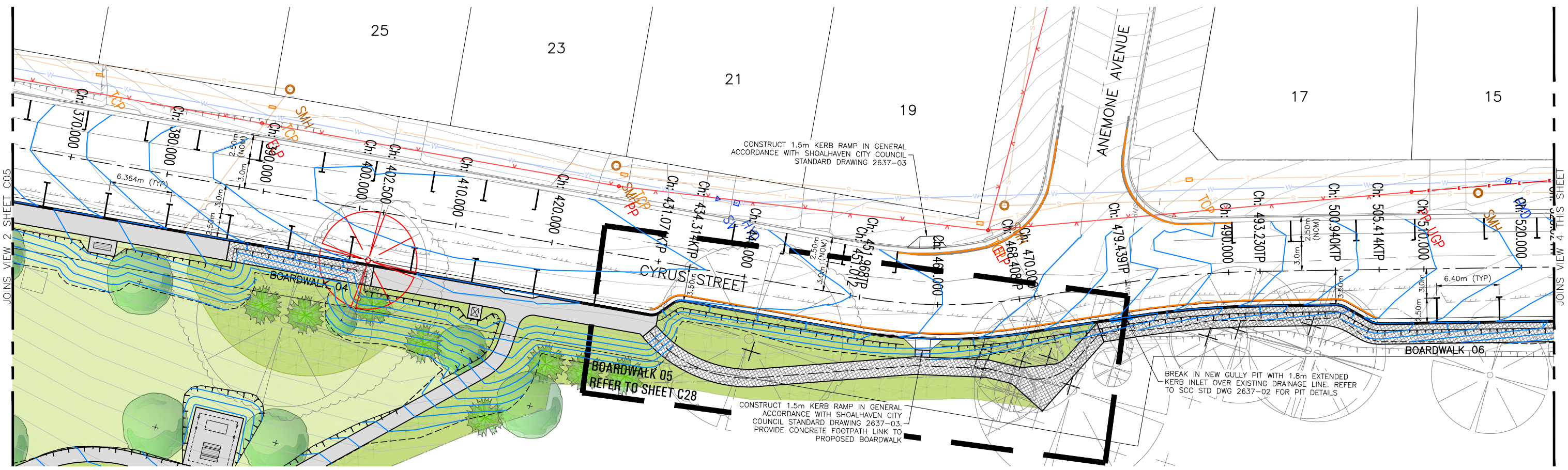
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	DESIGNED DATE: JAN '22
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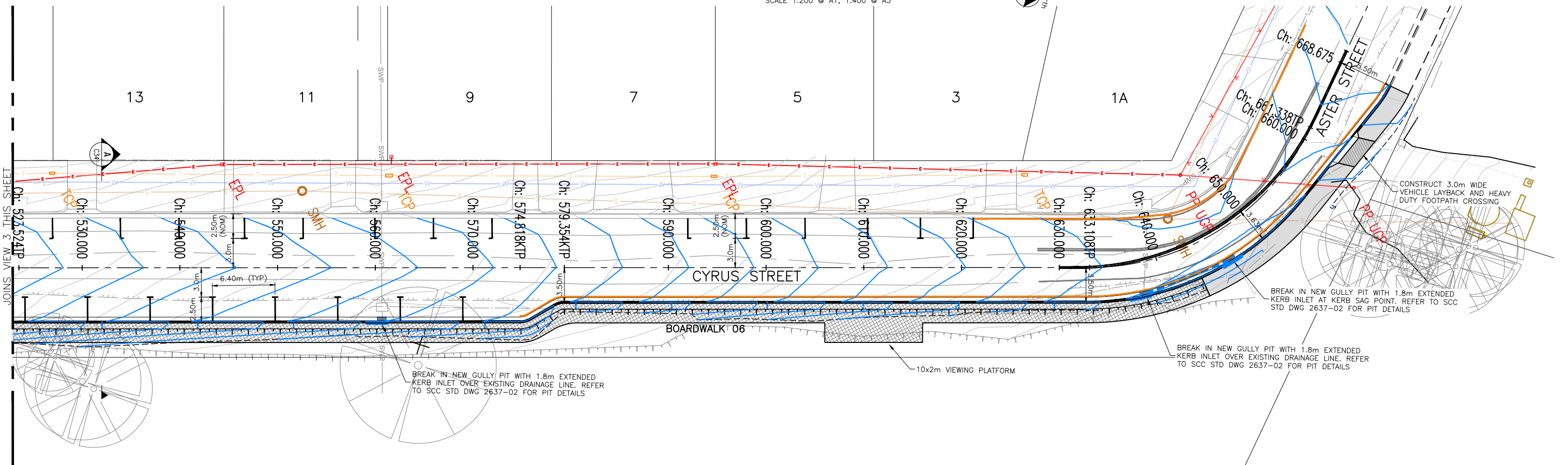
footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
LAYOUT PLAN - VIEW 2

Original sheet size A1	DRAWING NO. 2128-C10		5518.44
	ISSUE. B		
	SHEET 10 OF 38		



LAYOUT PLAN - VIEW 3
SCALE 1:200 @ A1, 1:400 @ A3



LAYOUT PLAN - VIEW 4
SCALE 1:200 @ A1, 1:400 @ A3

ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

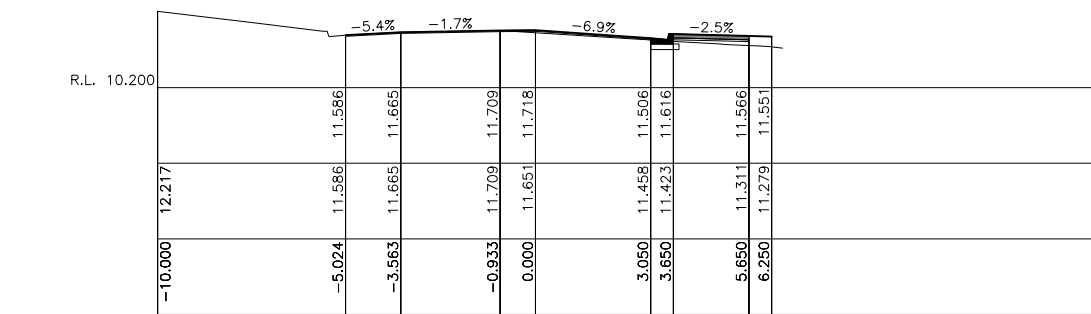
SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

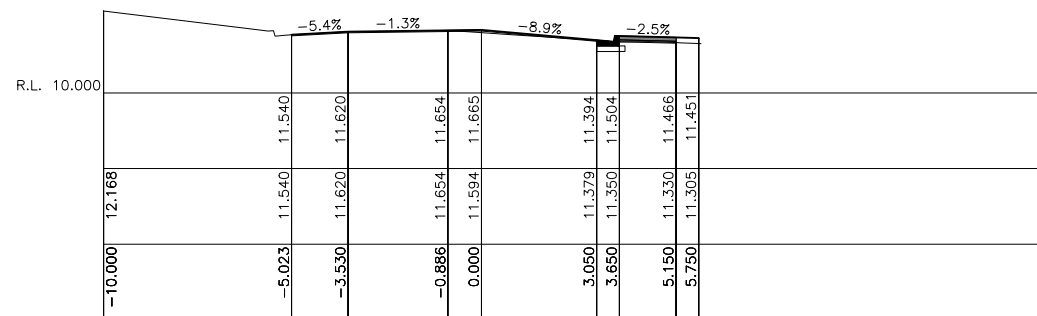
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
LAYOUT PLAN - VIEWS 3 AND 4

Original sheet size A1	DRAWING NO. 2128-C11	ISSUE. B	SHEET 11 OF 38

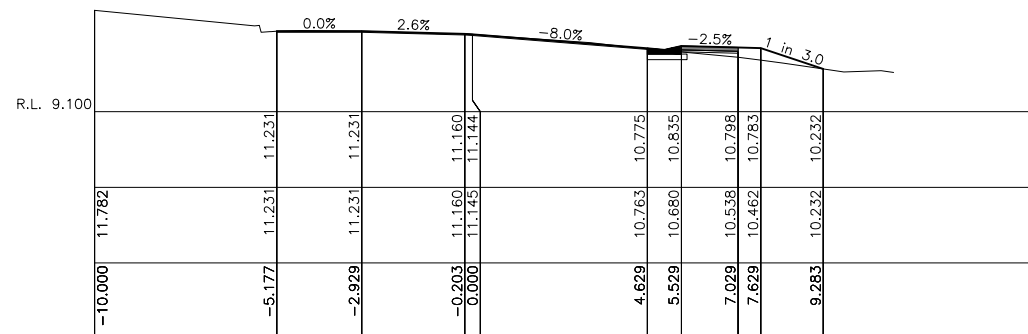
City Council
SCC PLAN REFERENCE
5518.45



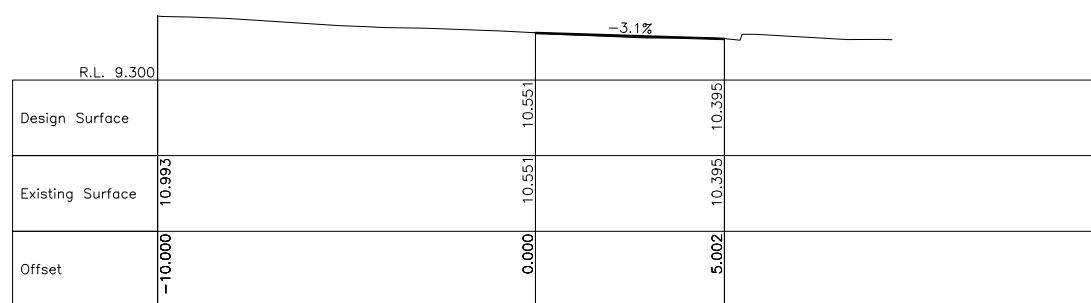
Ch 156.419



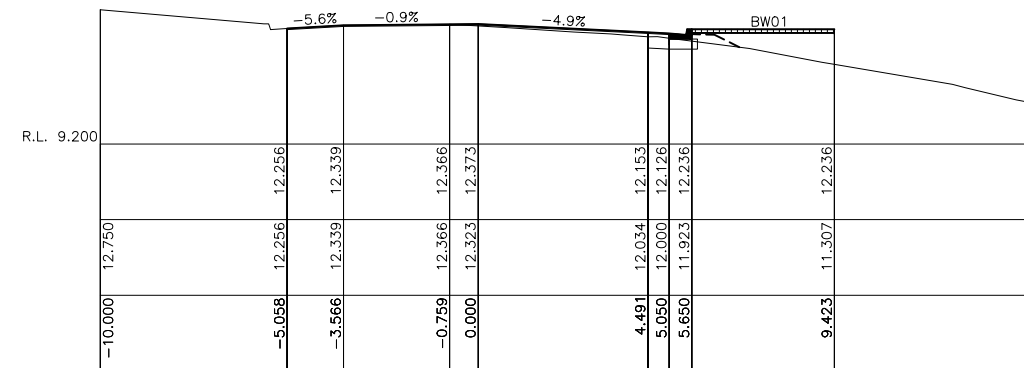
Ch 154.418



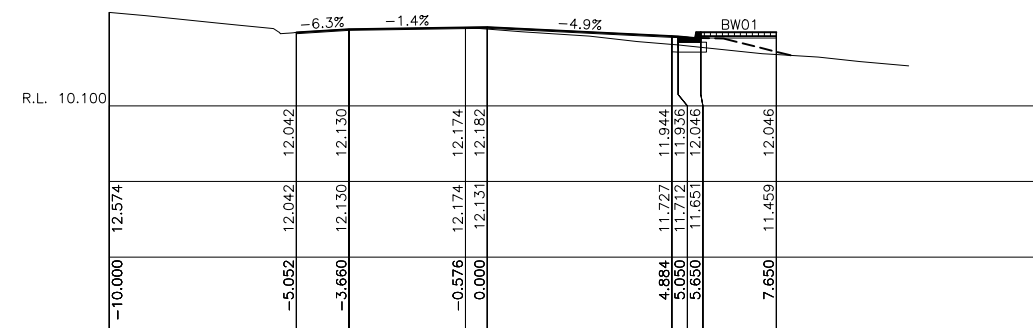
Ch 143.236



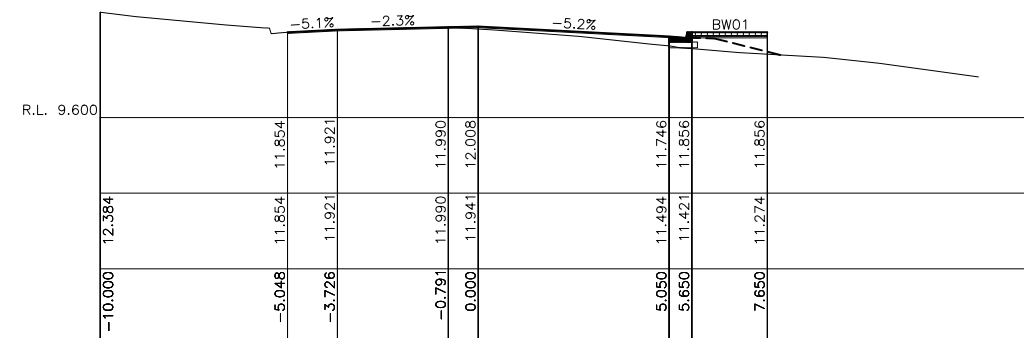
Ch 136.098



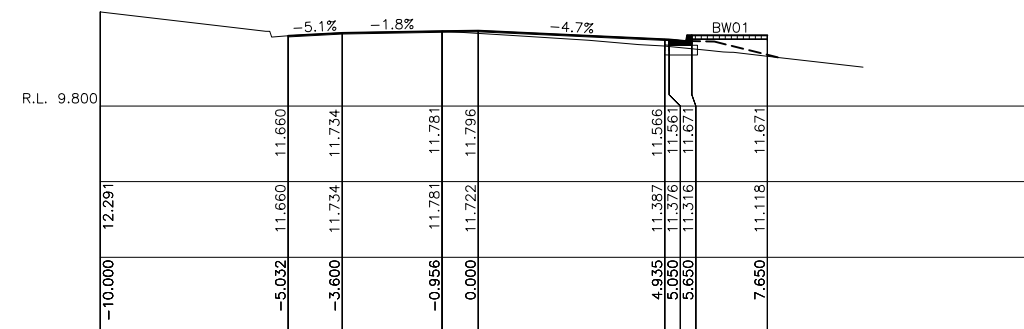
Ch 190.000



Ch 180.000



Ch 170.000



Ch 159.662

B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22
ISSUE	DESCRIPTION	DATE

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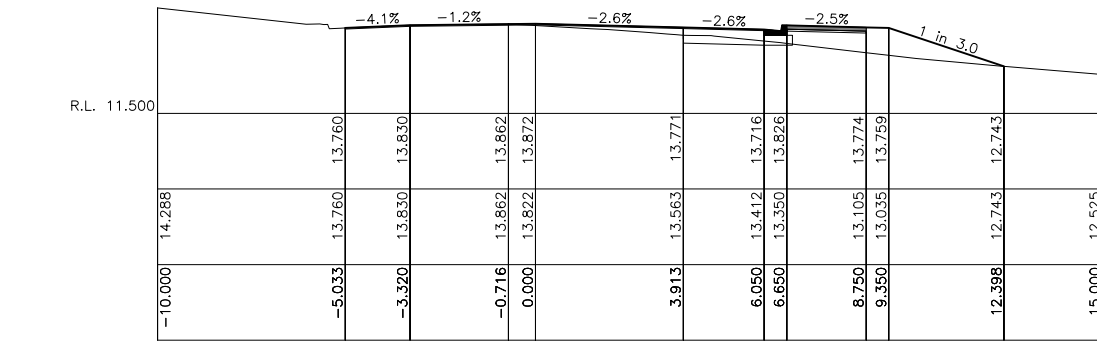
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1:100 @ A1	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

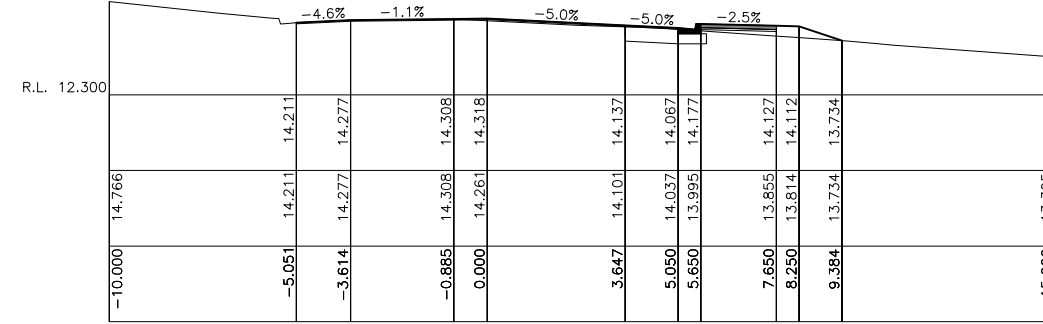
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
CYRUS STREET CROSS SECTIONS - SHEET 1 OF 9

DRAWING NO.	2128-C12
ISSUE.	B
SHEET	12 OF 38

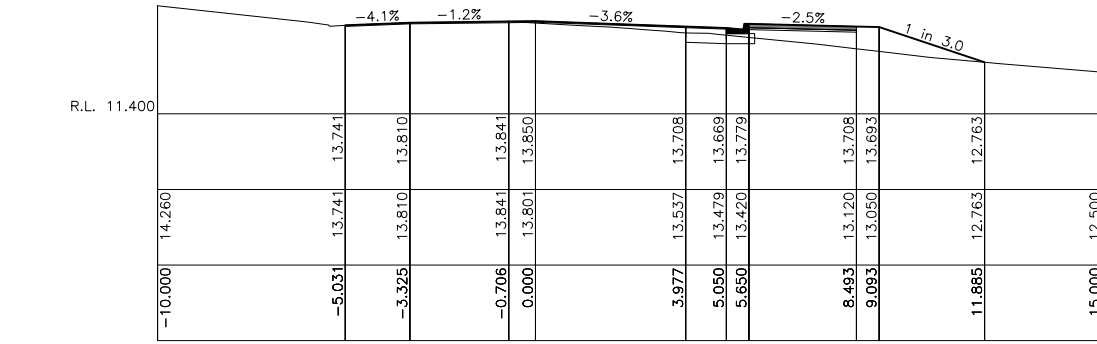
SCC PLAN REFERENCE
5518.46



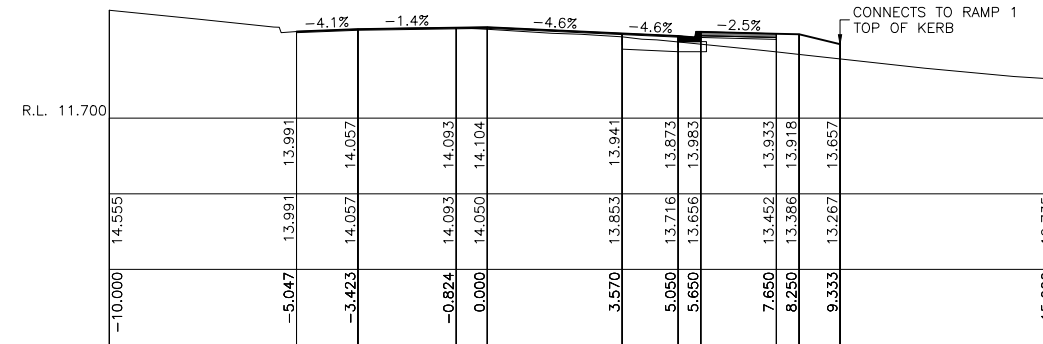
Ch 267.466



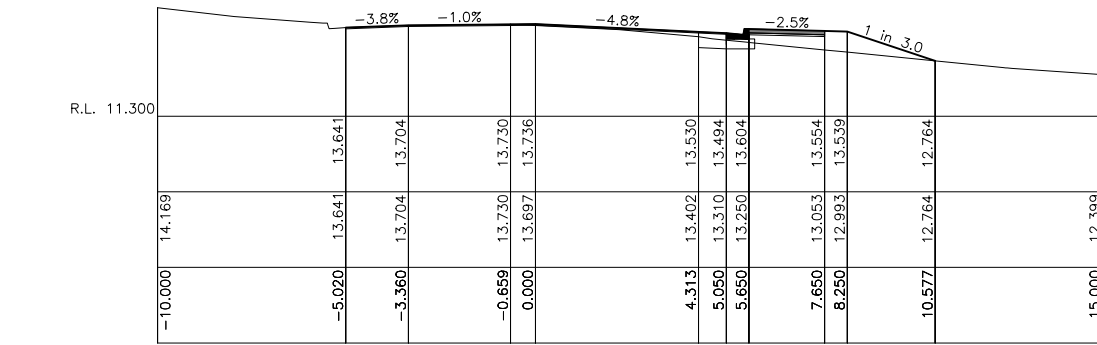
Ch 290.000



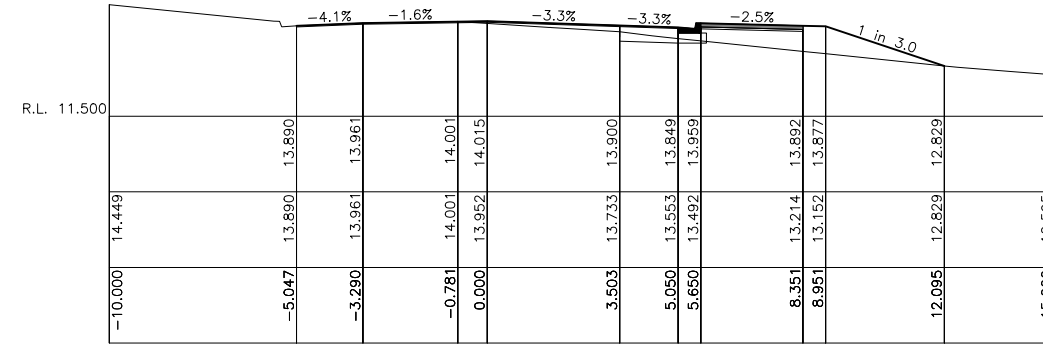
Ch 266.283



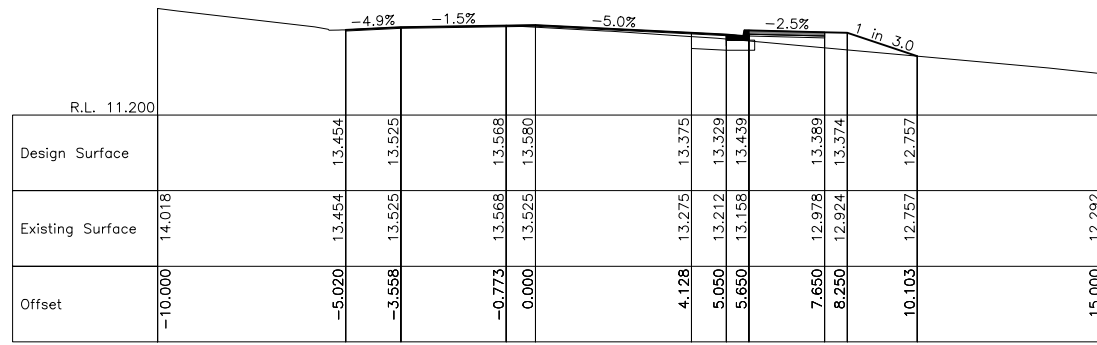
Ch 280.000



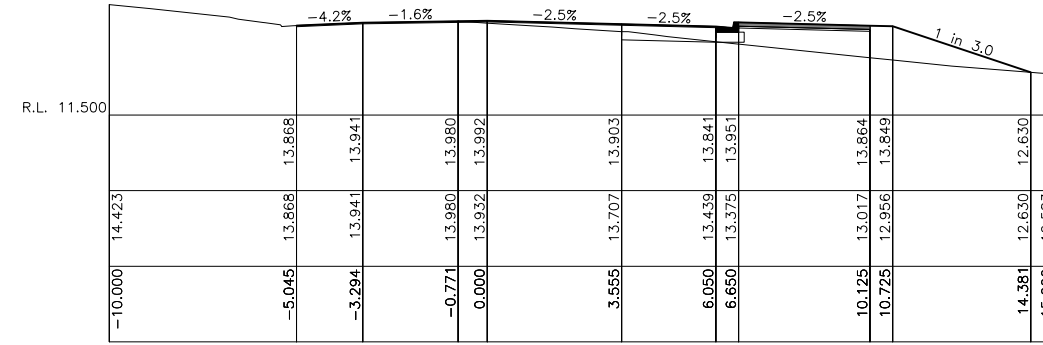
Ch 260.000



Ch 275.283



Ch 250.000



Ch 274.100

B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22
ISSUE	DESCRIPTION	DATE

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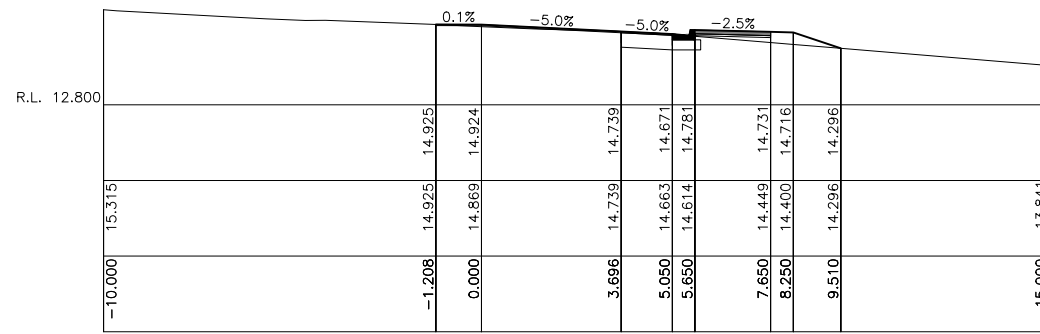
SCALES	SURVEYOR: SCC
1:100 @ A1	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

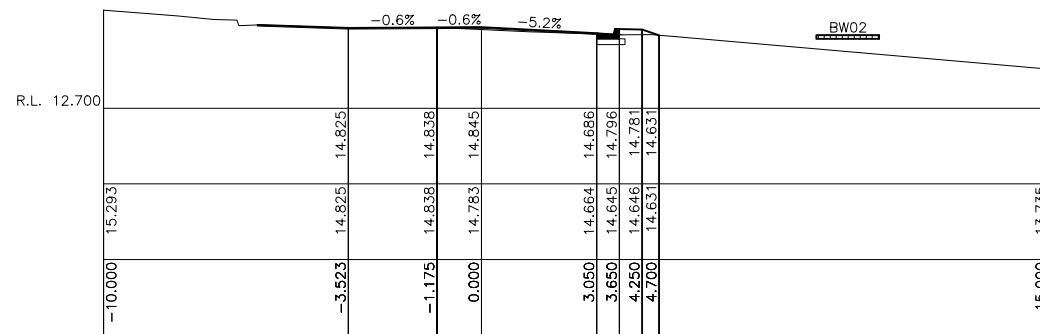
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
CYRUS STREET CROSS SECTIONS - SHEET 3 OF 9

DRAWING NO.	2128-C14
ISSUE.	B
SHEET	14 OF 38

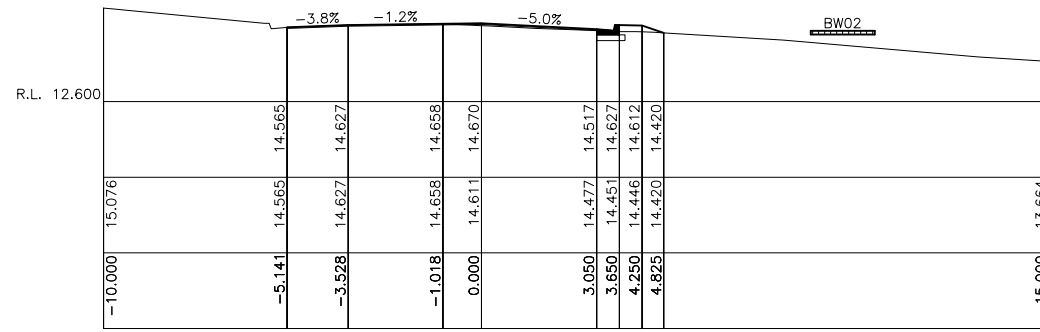
SCC PLAN REFERENCE
5518.48



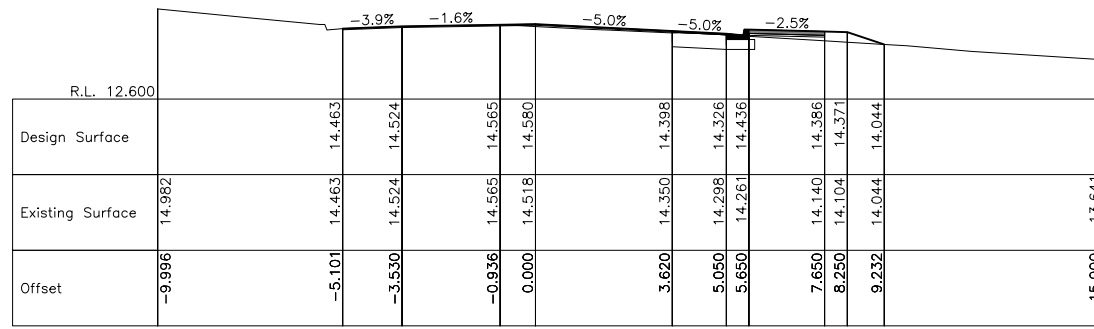
Ch 312.545



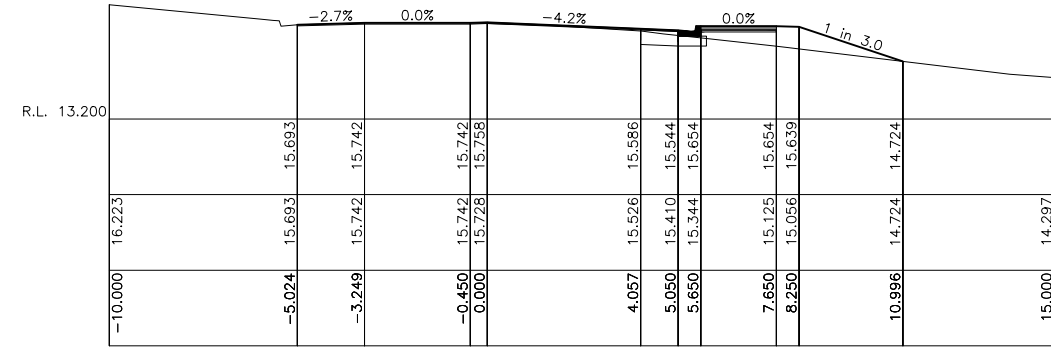
Ch 309.046



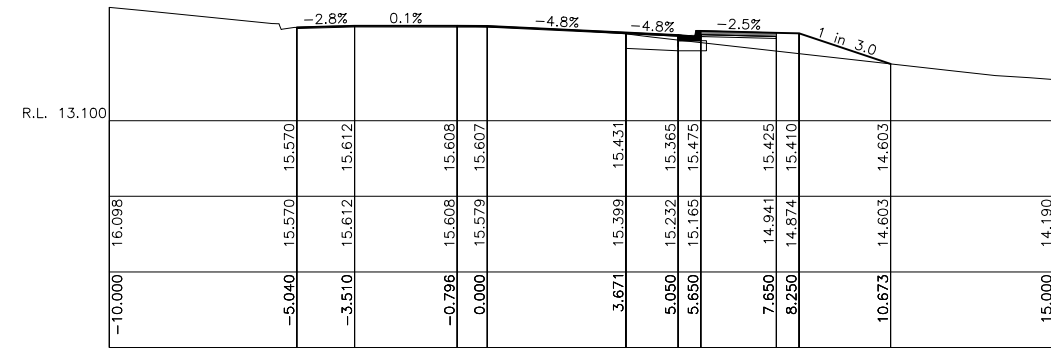
Ch 302.837



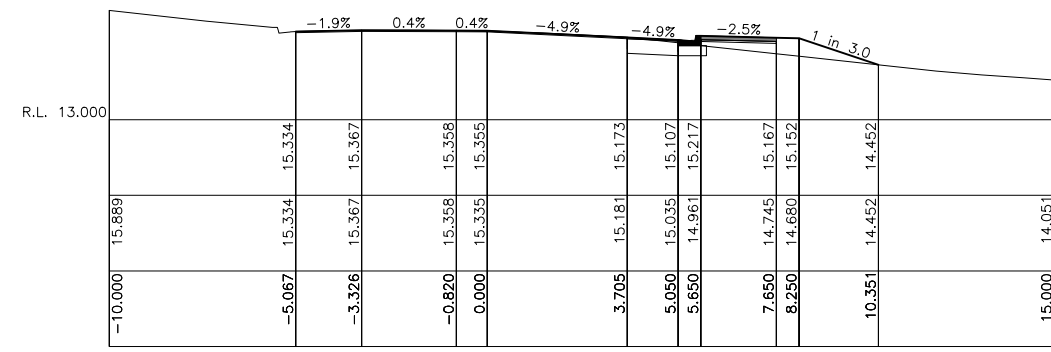
Ch 299.594



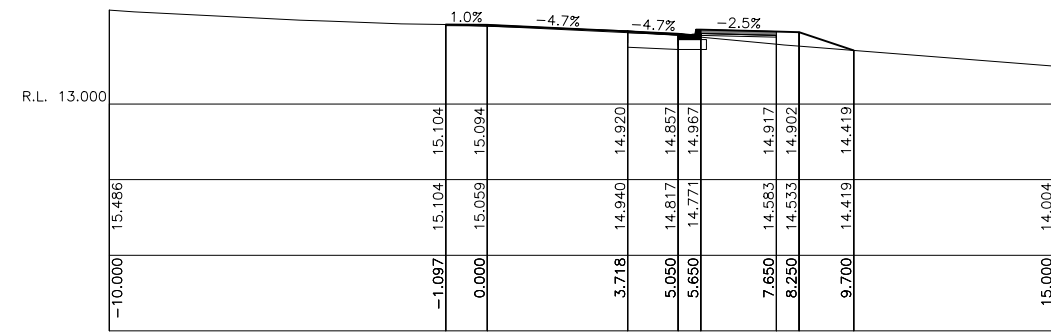
Ch 345.494



Ch 340.000



Ch 330.000



Ch 320.000

B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22
ISSUE	DESCRIPTION	DATE

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SCALES	SURVEYOR: SCC
1:100 @ A1	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB



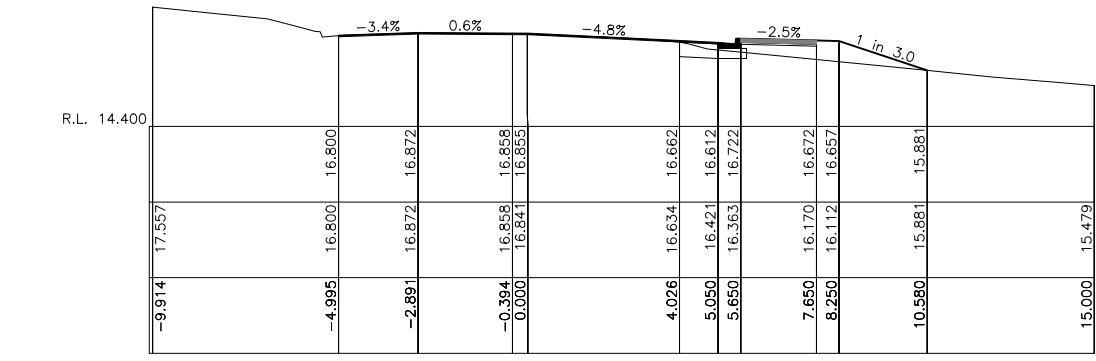
HYAMS BEACH MASTERPLAN (STAGE 1)

CIVIL ENGINEERING DRAWINGS

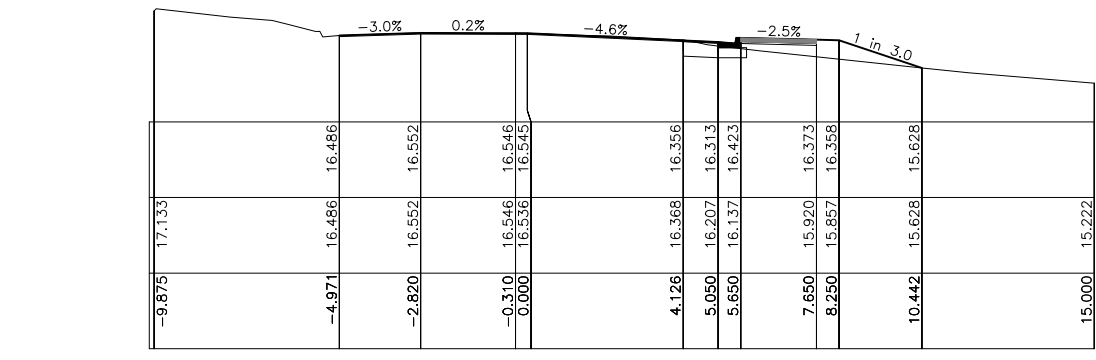
CYRUS STREET CROSS SECTIONS - SHEET 4 OF 9

DRAWING NO.	2128-C15
ISSUE.	B
SHEET	15 OF 38

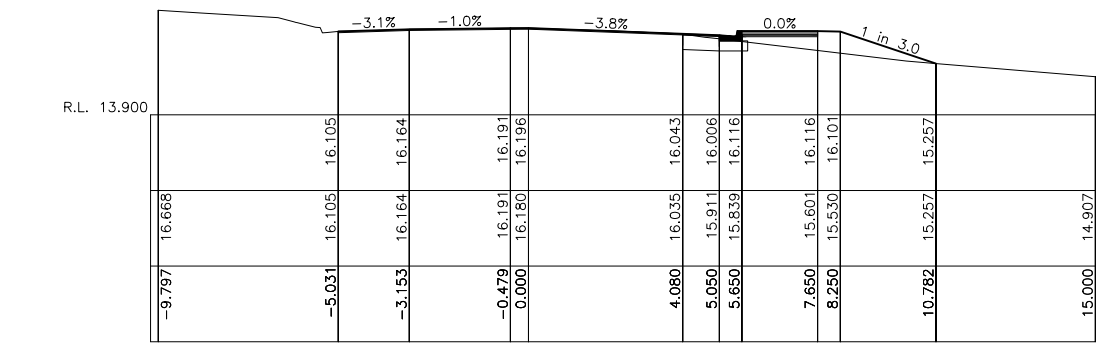




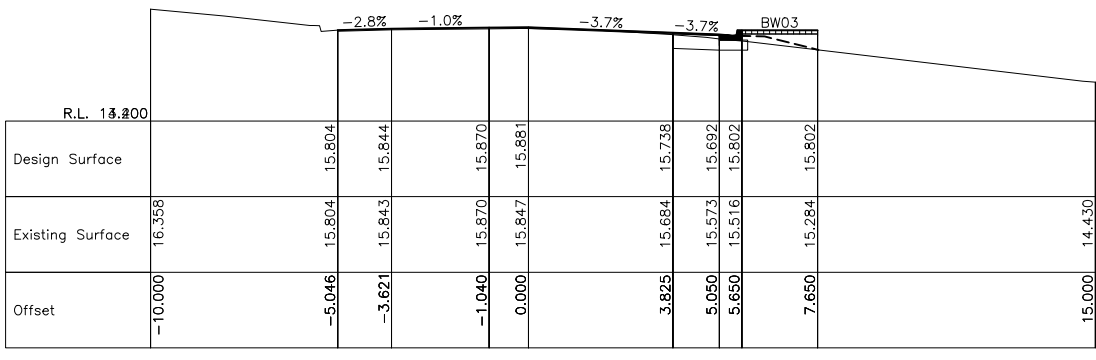
Ch 380.000



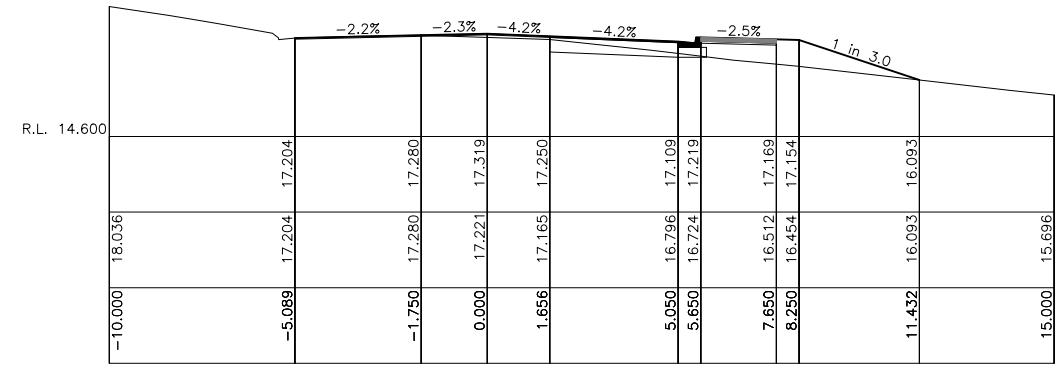
Ch 370.000



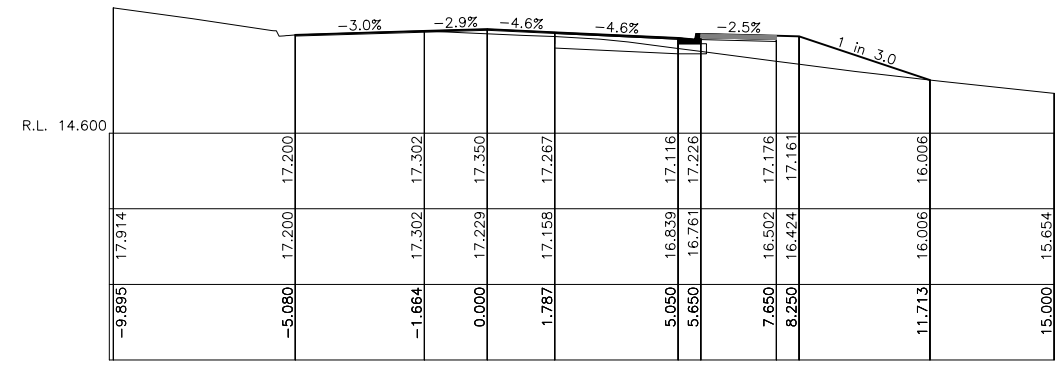
Ch 359.724



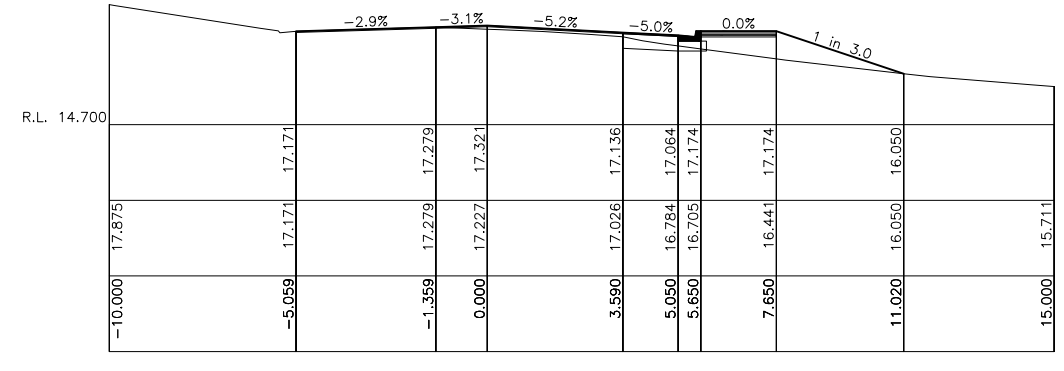
Ch 350.000



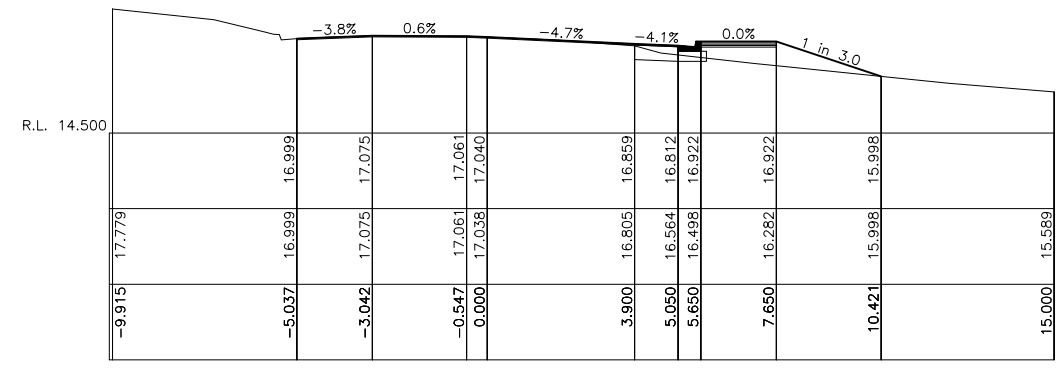
Ch 420.000



Ch 410.000



Ch 402.500



Ch 387.500

B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22
ISSUE	DESCRIPTION	DATE

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FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

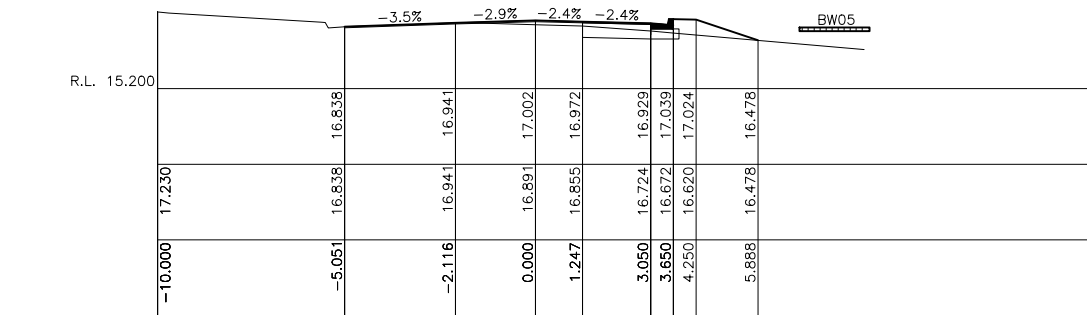
SCALES	SURVEYOR: SCC
1:100 @ A1	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

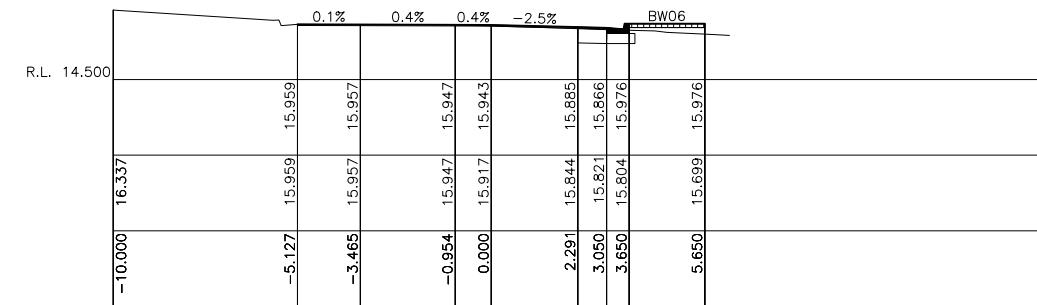
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
CYRUS STREET CROSS SECTIONS - SHEET 5 OF 9

DRAWING NO.	2128-C16
ISSUE.	B
SHEET	16 OF 38

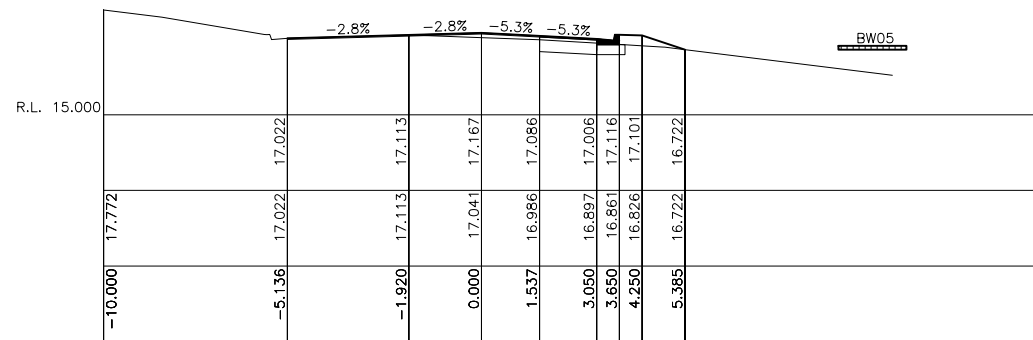
City Council
SCC PLAN REFERENCE
5518.50



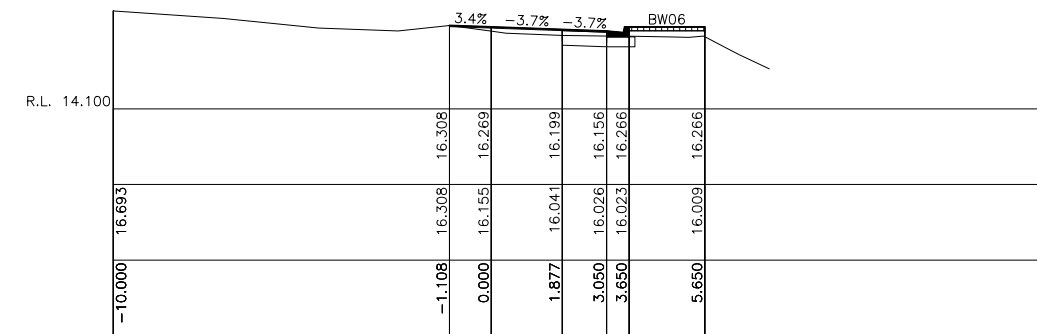
Ch 451.012



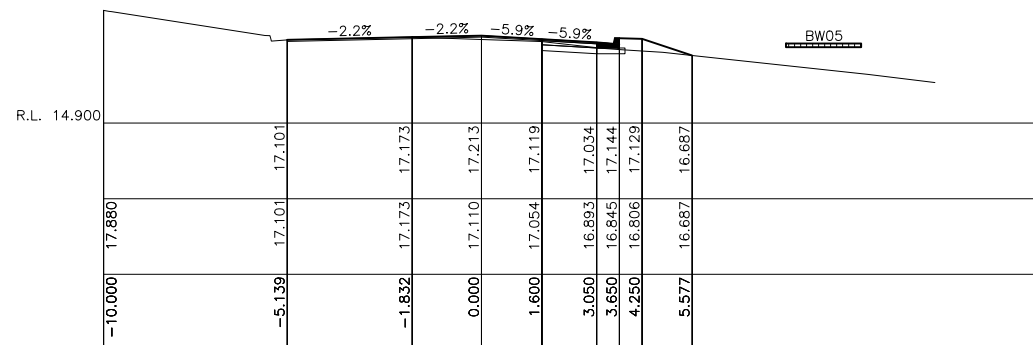
Ch 490.000



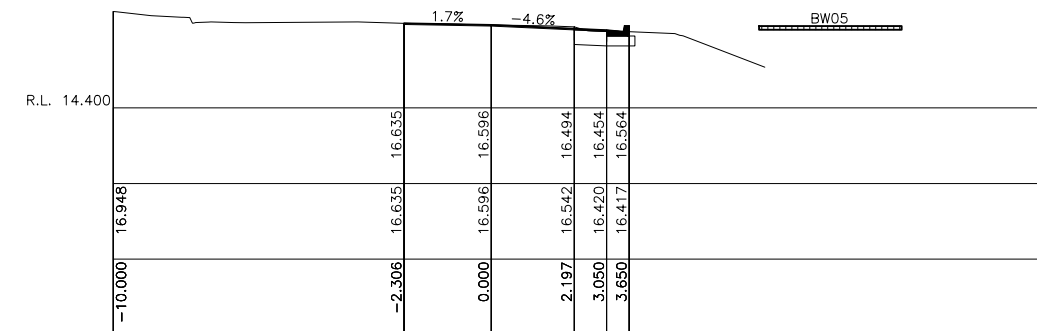
Ch 440.000



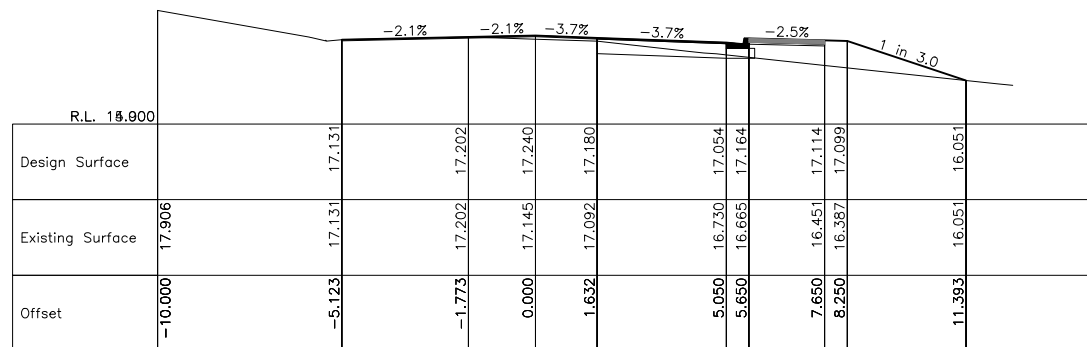
Ch 480.000



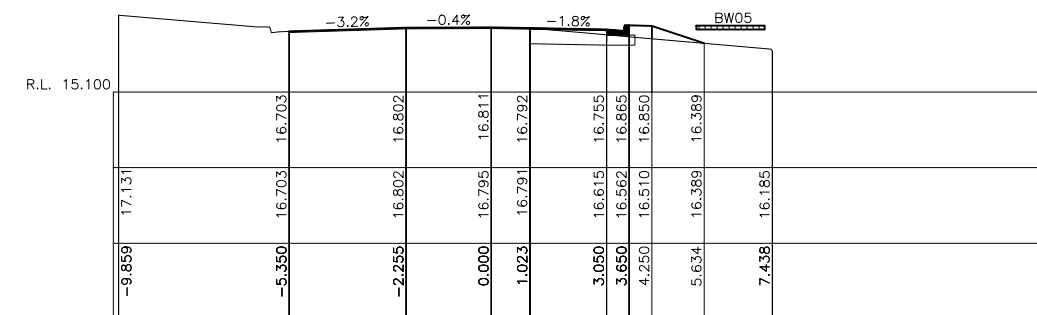
Ch 434.314



Ch 470.000



Ch 431.071



Ch 460.000

ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

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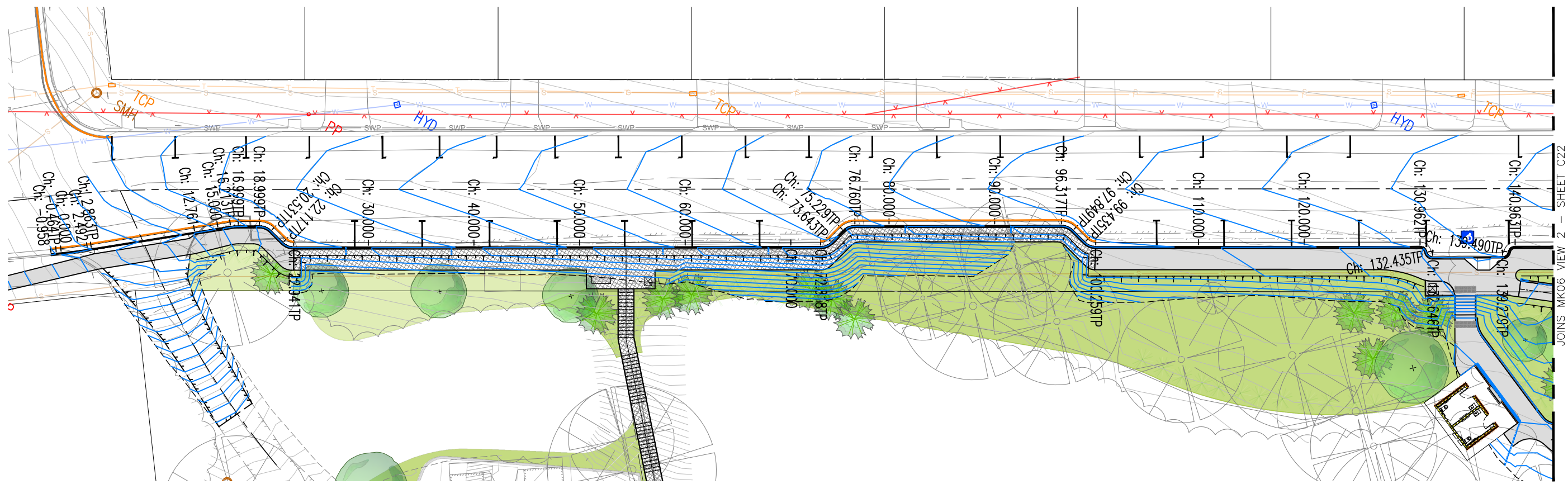
SCALES	1:100 @ A1
ORIGINAL	A1
SURVEYOR:SCC	DATUM: AHD
AZIMUTH: MGA	DRAWN: AB
DESIGNED: AB	DESIGNED DATE: JAN '22
CHECKED: AB	

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

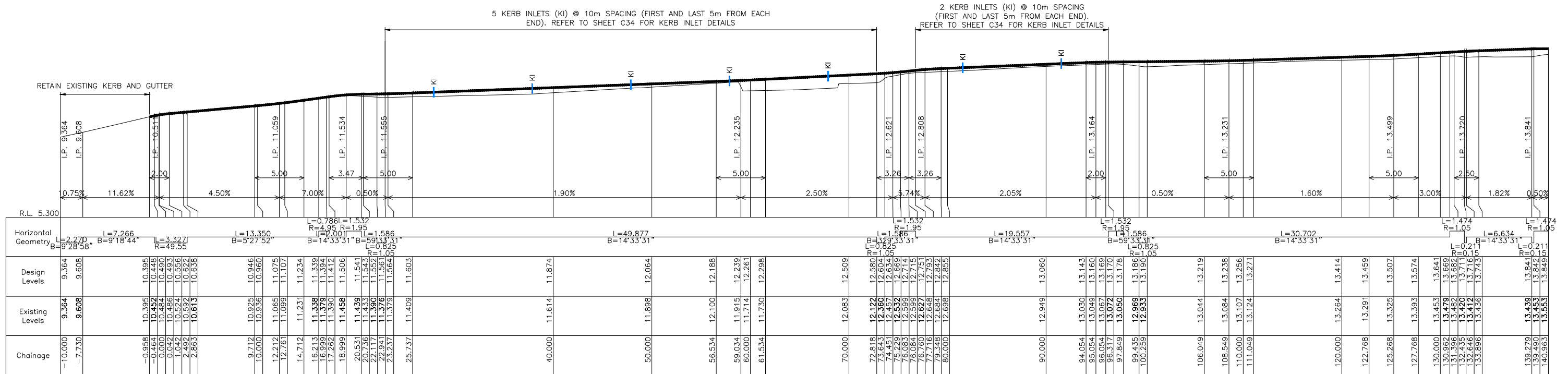
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
CYRUS STREET CROSS SECTIONS - SHEET 6 OF 9

DRAWING NO.	2128-C17
ISSUE.	B
SHEET	17 OF 38

SCC PLAN REFERENCE
5518.51

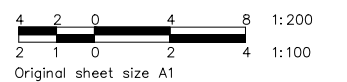


MK06 PLAN - PART 1
SCALE 1:200 @ A1, 1:400 @ A3



MK06 LIP LONGITUDINAL SECTION - PART 1

SCALES H 1:200 @ A1, 1:400 @ A3
V 1:100 @ A1, 1:200 @ A3



ISSUE	DESCRIPTION	DATE
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SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

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a. 15 meehan drive
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p. 02 4237 6770
m. 0430 421 661

HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS

MK06 PLAN AND LONGITUDINAL SECTION - PART 1

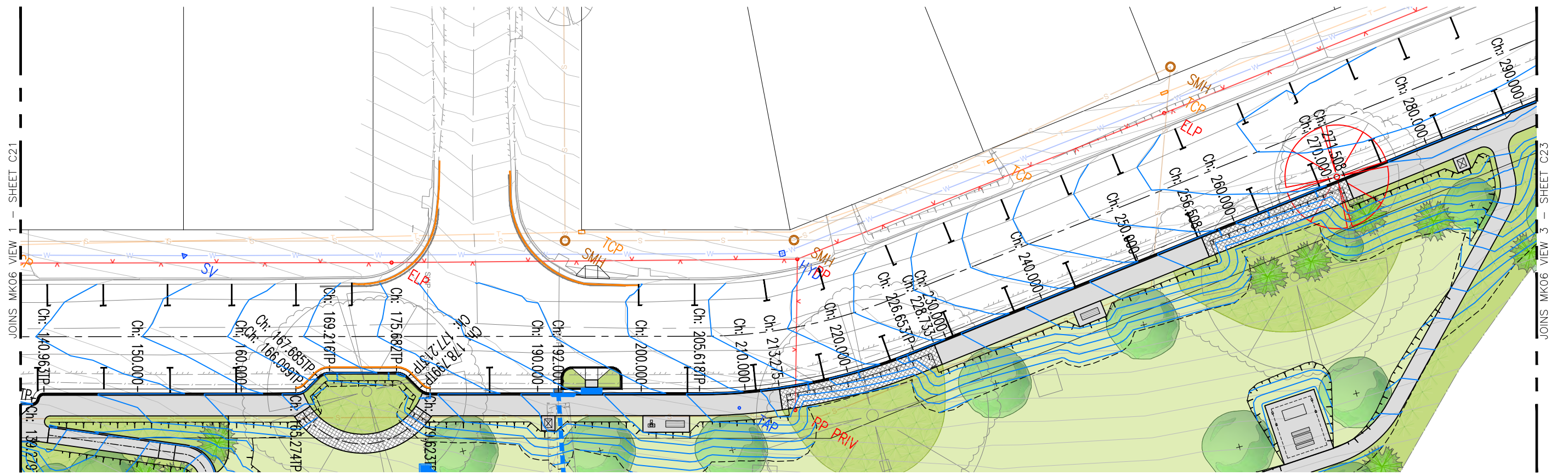
DRAWING NO. 2128-C21

ISSUE: B

SHEET 21 OF 38

City Council

SCC PLAN REFERENCE 5518.55

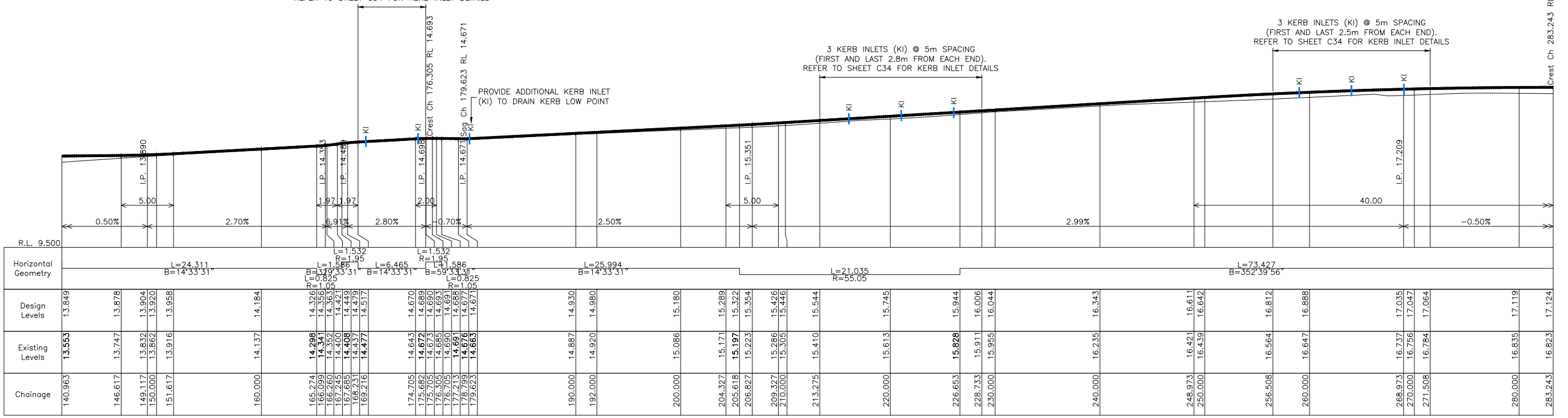


MK06 PLAN - PART 2
SCALE 1:200 @ A1, 1:400 @ A3

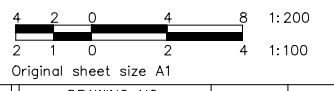
2 KERB INLETS (KI) @ APPROX 5.0m SPACING
(FIRST AND LAST 750mm FROM TP EACH END).
REFER TO SHEET C34 FOR KERB INLET DETAILS

3 KERB INLETS (KI) @ 5m SPACING
(FIRST AND LAST 2.8m FROM EACH END).
REFER TO SHEET C34 FOR KERB INLET DETAILS

3 KERB INLETS (KI) @ 5m SPACING
(FIRST AND LAST 2.5m FROM EACH END).
REFER TO SHEET C34 FOR KERB INLET DETAILS



MK06 LIP LONGITUDINAL SECTION - PART 2
SCALES H 1:200 @ A1, 1:400 @ A3
V 1:100 @ A1, 1:200 @ A3



ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

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FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
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HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS

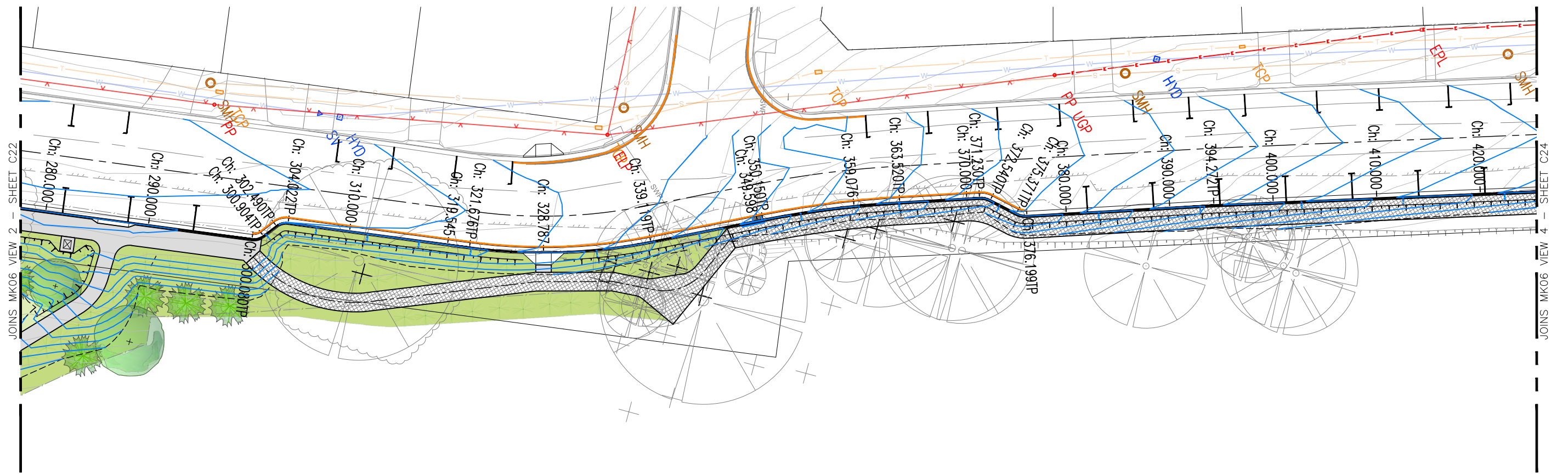
MK06 PLAN AND LONGITUDINAL SECTION - PART 2

DRAWING NO.
2128-C22

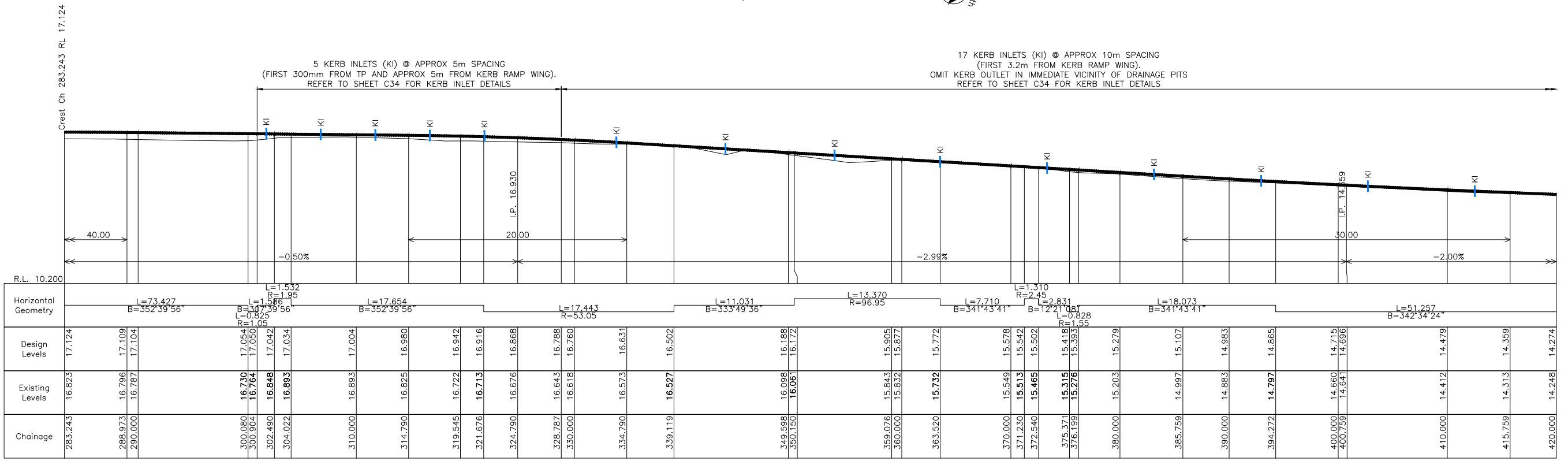
ISSUE.
B

SHEET 22 OF 38

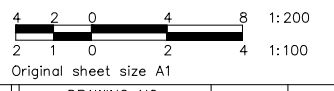
City Council
SCC PLAN REFERENCE
5518.56



MK06 PLAN - PART 3
SCALE 1:200 @ A1, 1:400 @ A3



MK06 LIP LONGITUDINAL SECTION - PART 3
SCALES H 1:200 @ A1, 1:400 @ A3
V 1:100 @ A1, 1:200 @ A3



ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
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ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

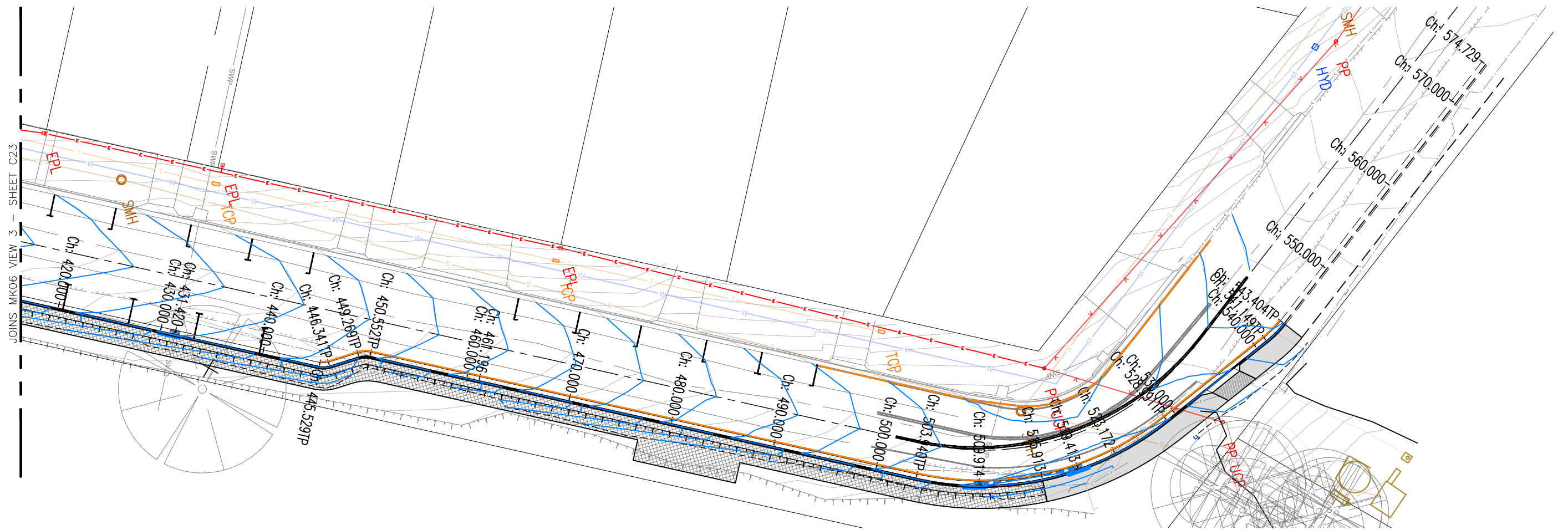
SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

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sustainable engineering
a. 15 meehan drive
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HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
MK06 PLAN AND LONGITUDINAL SECTION - PART 3

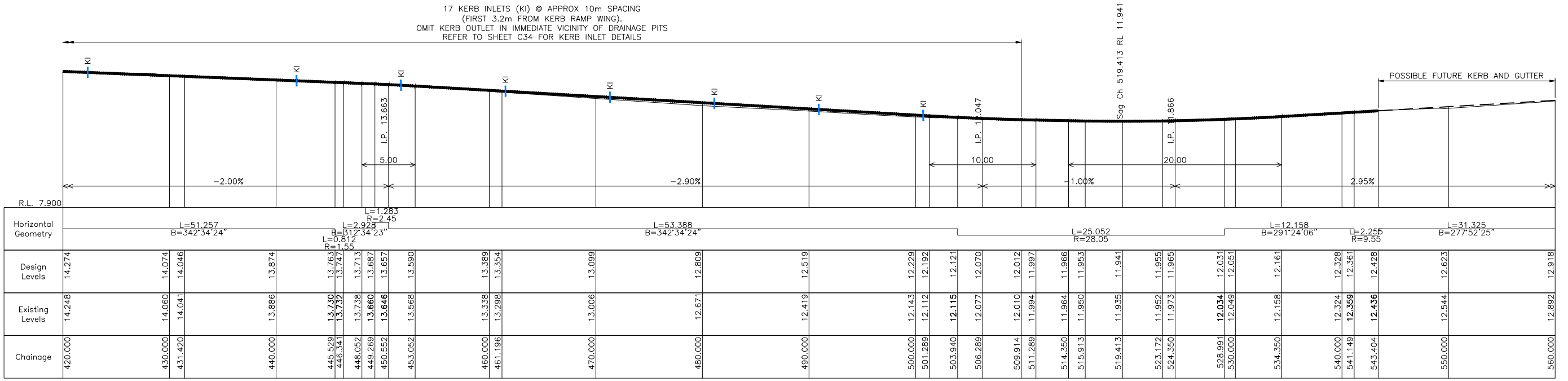
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2128-C23	B	23 OF 38

SCC PLAN REFERENCE: **5518.57**

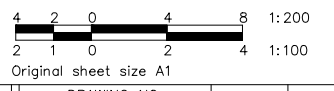


MK06 PLAN - PART 4
SCALE 1:200 @ A1, 1:400 @ A3

17 KERB INLETS (KI) @ APPROX 10m SPACING
(FIRST 3.2m FROM KERB RAMP WING).
OMIT KERB OUTLET IN IMMEDIATE VICINITY OF DRAINAGE PITS
REFER TO SHEET C34 FOR KERB INLET DETAILS



MK06 LIP LONGITUDINAL SECTION - PART 4
SCALES H 1:200 @ A1, 1:400 @ A3
V 1:100 @ A1, 1:200 @ A3



ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

ISSUED FOR CONSTRUCTION

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SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS

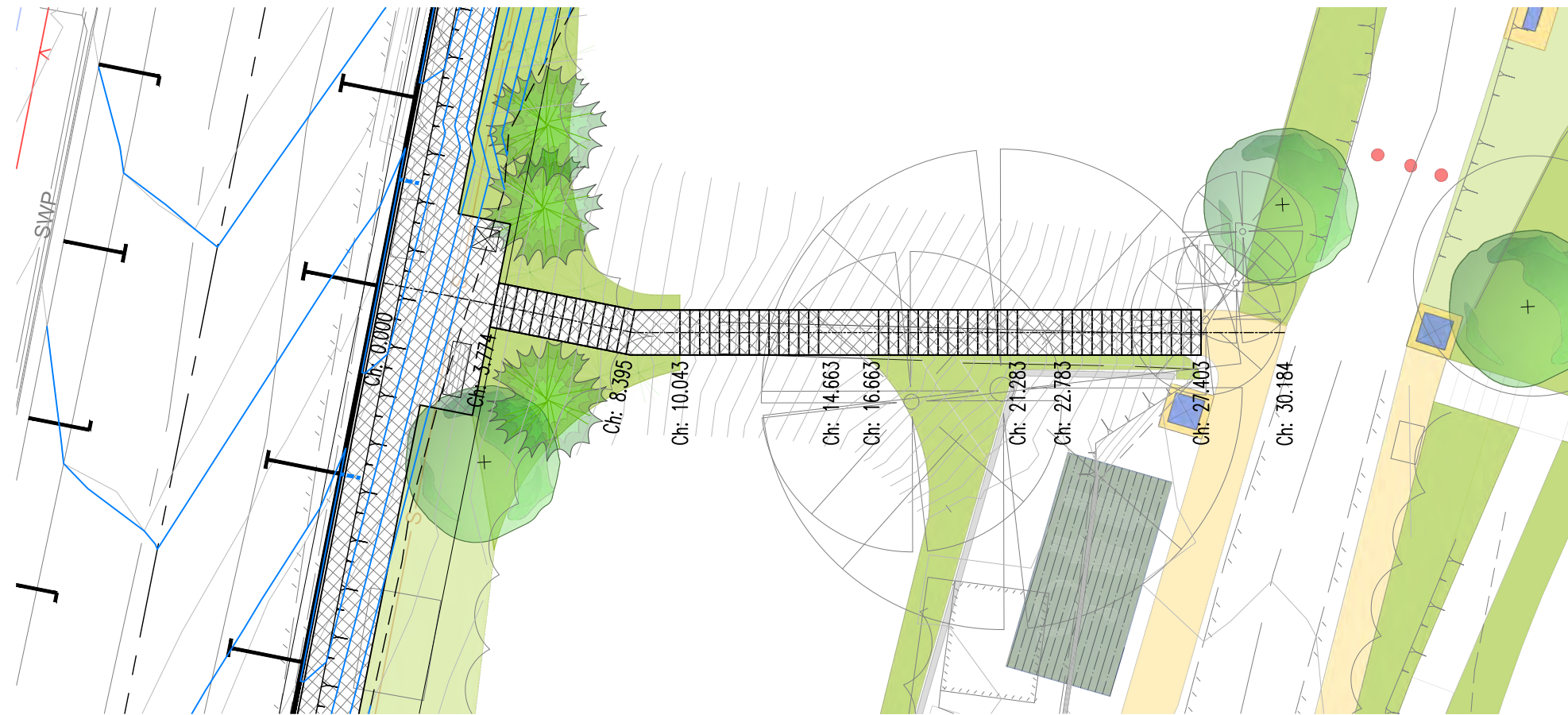
MK06 PLAN AND LONGITUDINAL SECTION - PART 4

DRAWING NO.
2128-C24

ISSUE.
B

SHEET 24 OF 38

City Council
SCC PLAN REFERENCE
5518.58

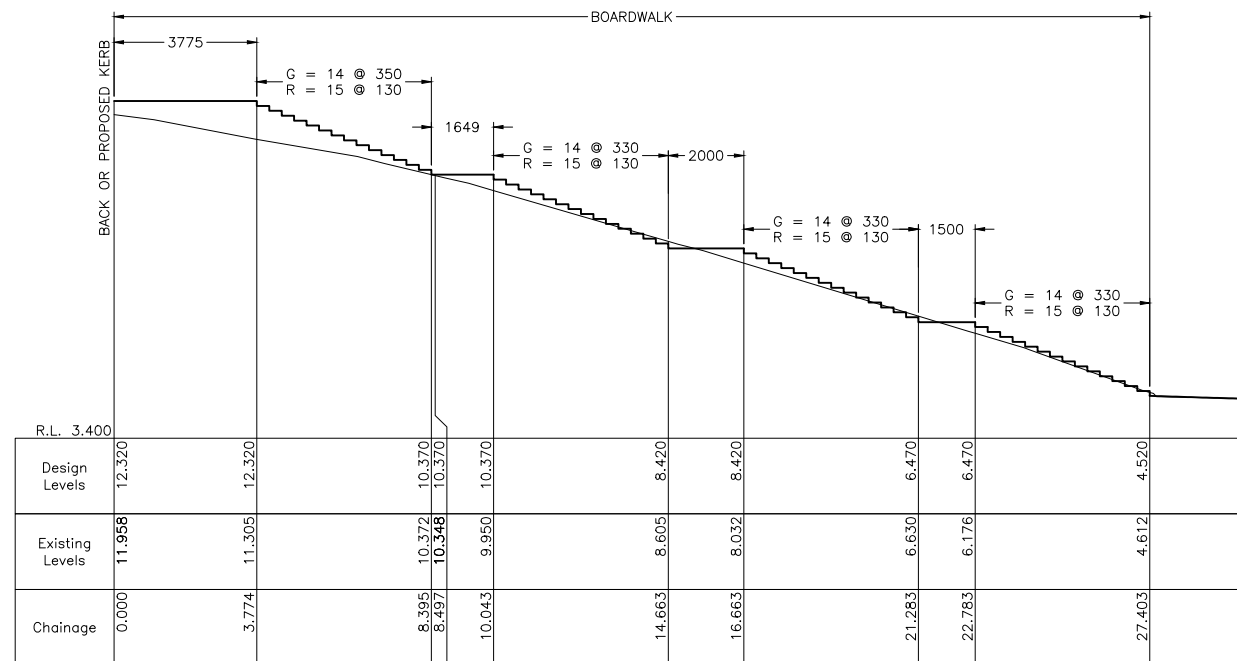


STAIR 1 PLAN
SCALE 1:100 @ A1, 1:200 @ A3



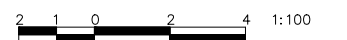
STAIR 1 COMPLIANCE TABLE

RANGE (mm)	RISER (R)		GOING (G)		SLOPE RELATIONSHIP (2R + G)	
	MIN	MAX	MIN	MAX	MIN	MAX
AS1657	130	225	215	355	540	700
BCA	115	190	240	355	550	700
DESIGNED	130		330		590	



STAIR 1 LONGITUDINAL SECTION

SCALE 1:100 @ A1, 1:200 @ A3



Original sheet size A1

ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

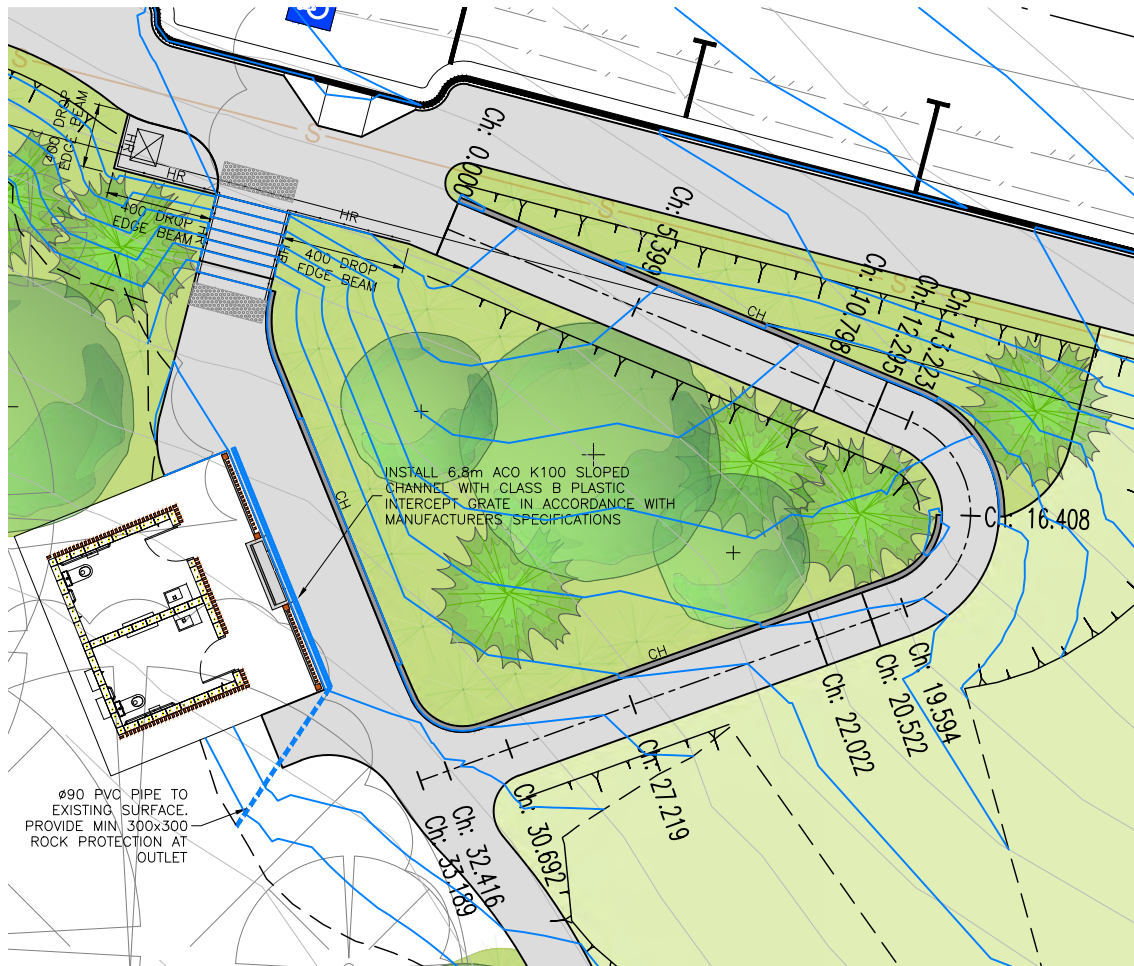
SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
STAIR 1 DETAILS

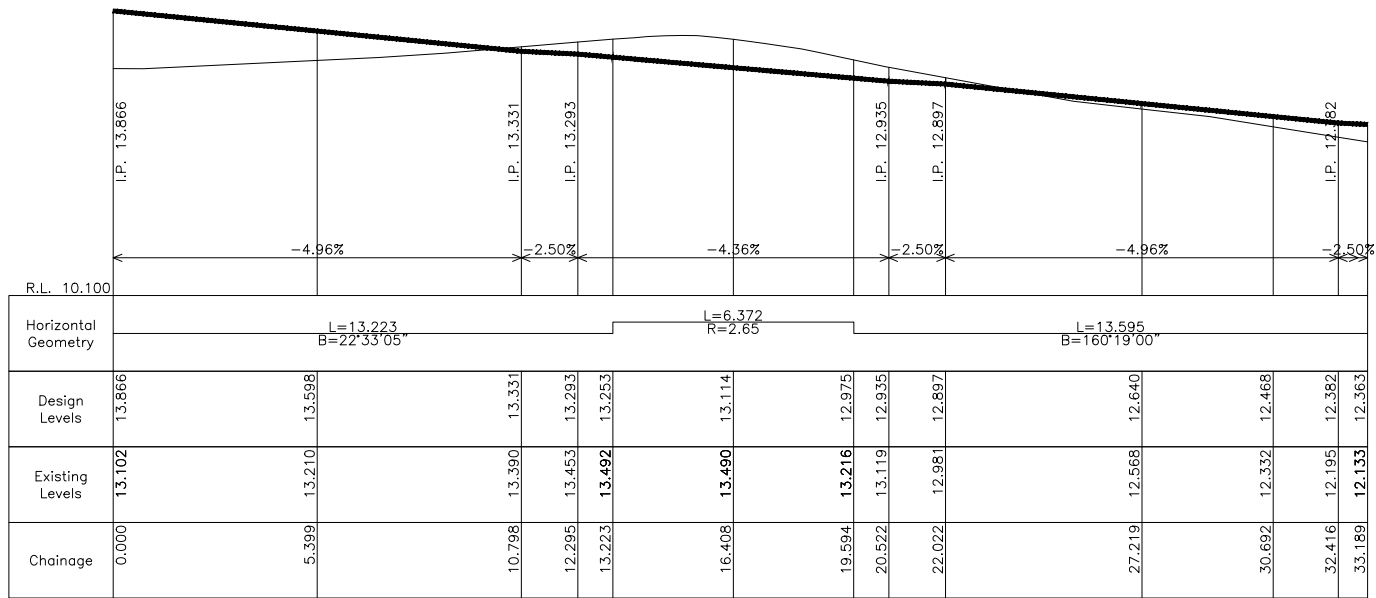
DRAWING NO. 2128-C25
ISSUE. B
SHEET 25 OF 38

City Council
SCC PLAN REFERENCE
5518.59



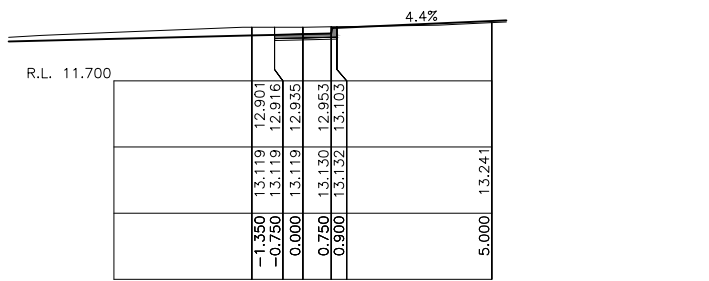
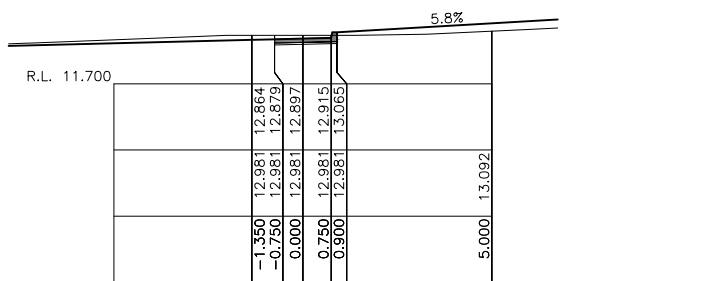
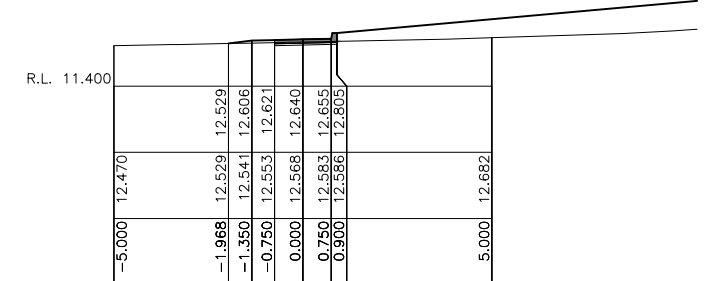
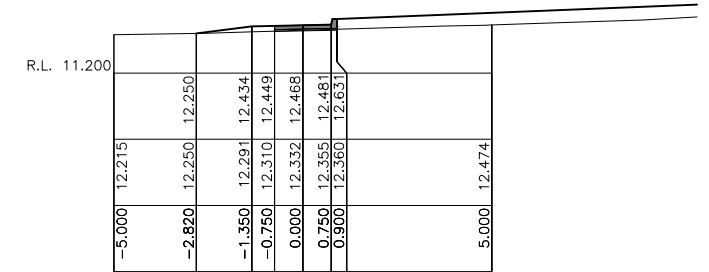
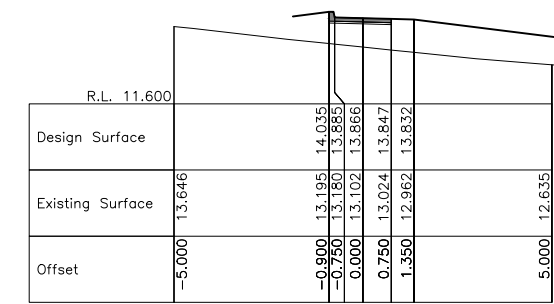
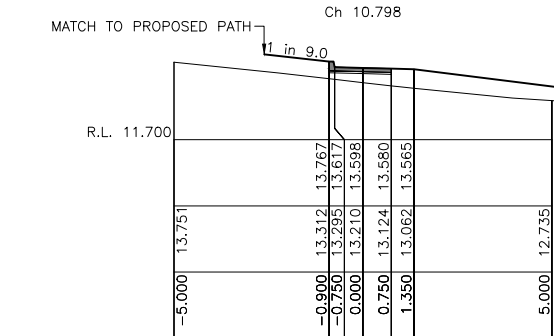
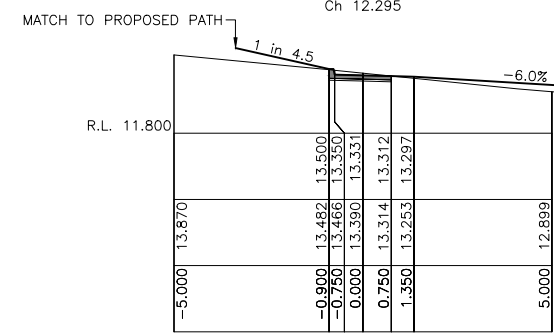
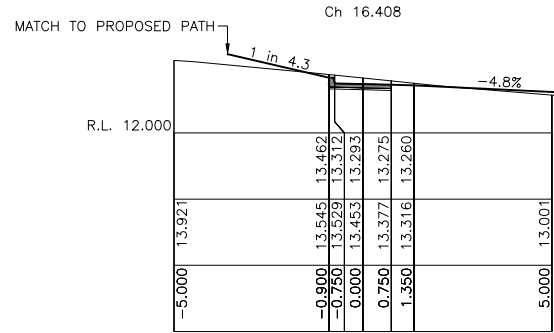
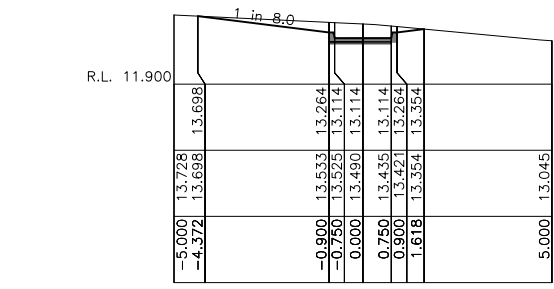
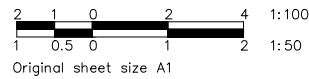
WALKWAY 1 PLAN
SCALE 1:100 @ A1, 1:200 @ A3

HR - HANDRAIL (STAINLESS STEEL)
CH - CONCRETE HOB



WALKWAY 1 LONGITUDINAL SECTION

SCALE H 1:100 @ A1, 1:200 @ A3
V 1:50 @ A1, 1:100 @ A3



WALKWAY 1 CROSS SECTIONS
SCALE 1:100 @ A1, 1:200 @ A3

ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

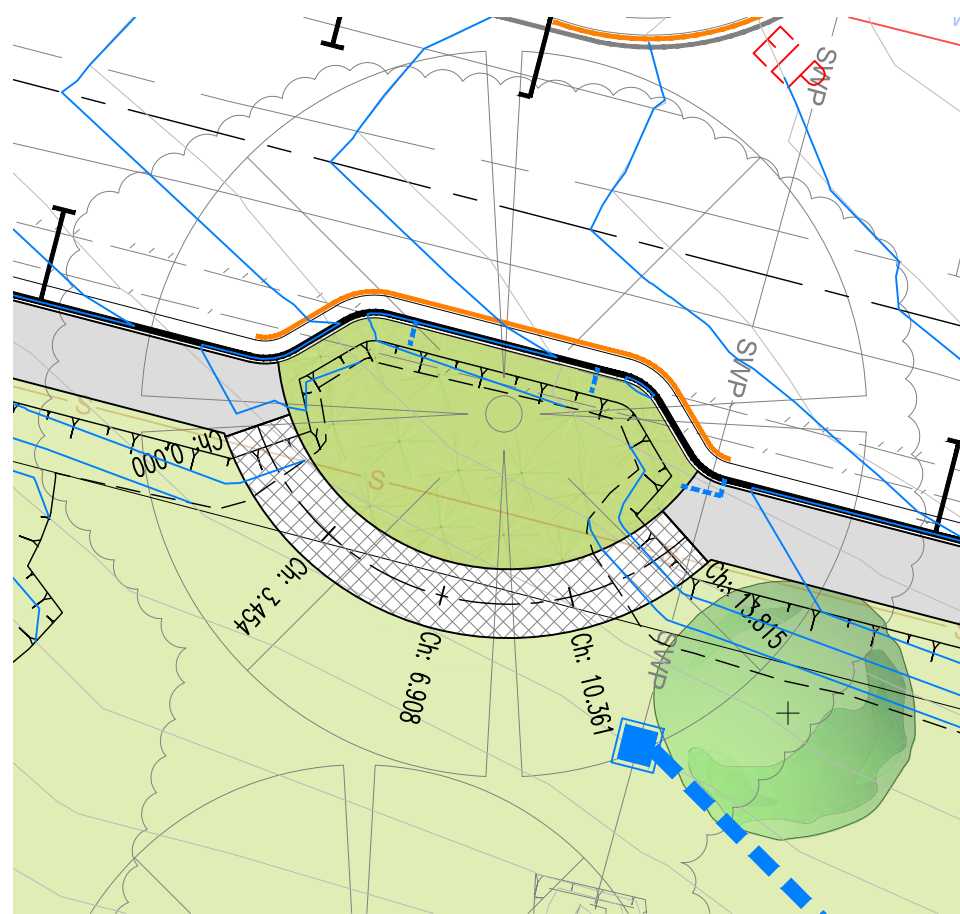
SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
WALKWAY 1 DETAILS

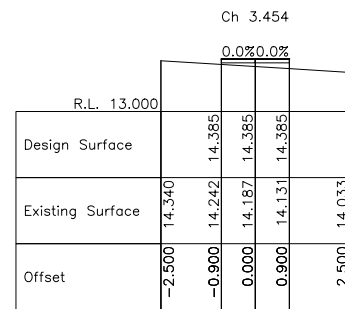
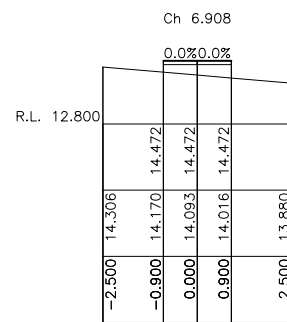
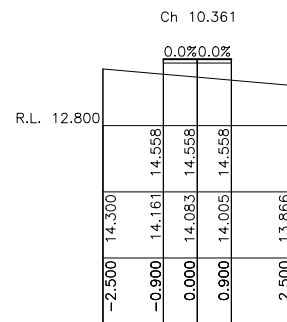
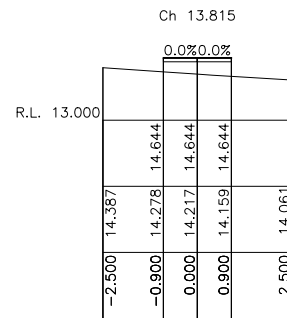
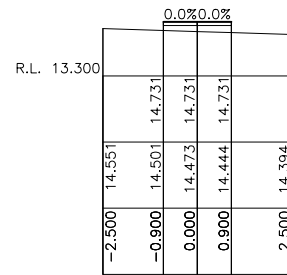
DRAWING NO. 2128-C26	
ISSUE B	
SHEET 26 OF 38	

SCC PLAN REFERENCE
5518.60



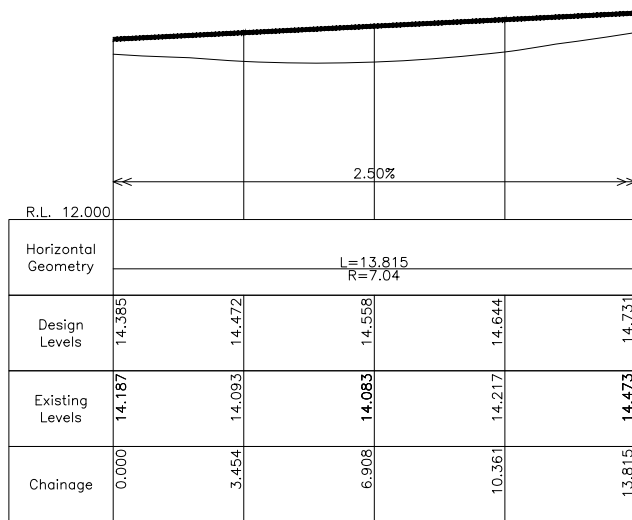
BOARDWALK 02 PLAN

SCALE 1:100 @ A1, 1:200 @ A3



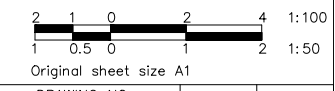
BOARDWALK 02 CROSS SECTIONS

SCALE 1:100 @ A1, 1:200 @ A3



BOARDWALK 02 LONGITUDINAL SECTION

SCALES H 1:100 @ A1, 1:200 @ A3
V 1:50 @ A1, 1:100 @ A3



B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22
ISSUE	DESCRIPTION	DATE

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

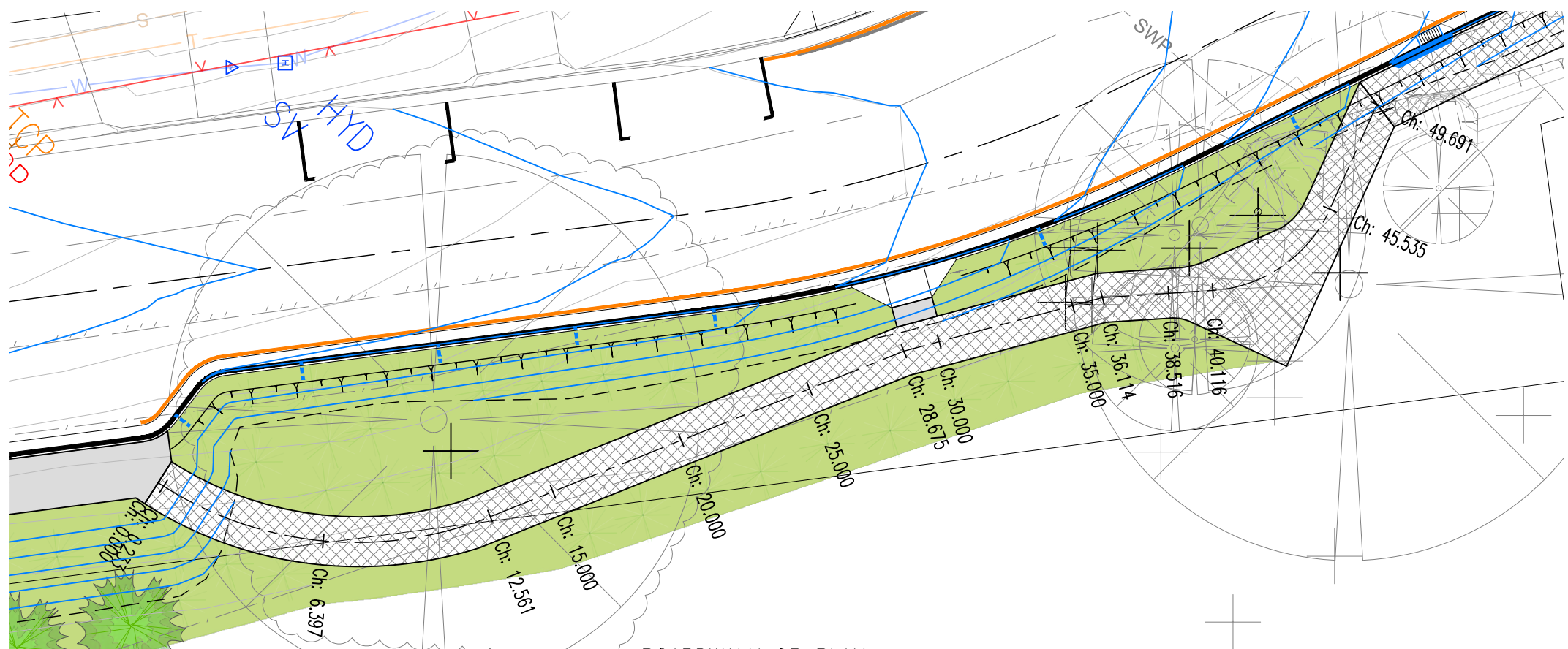
SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

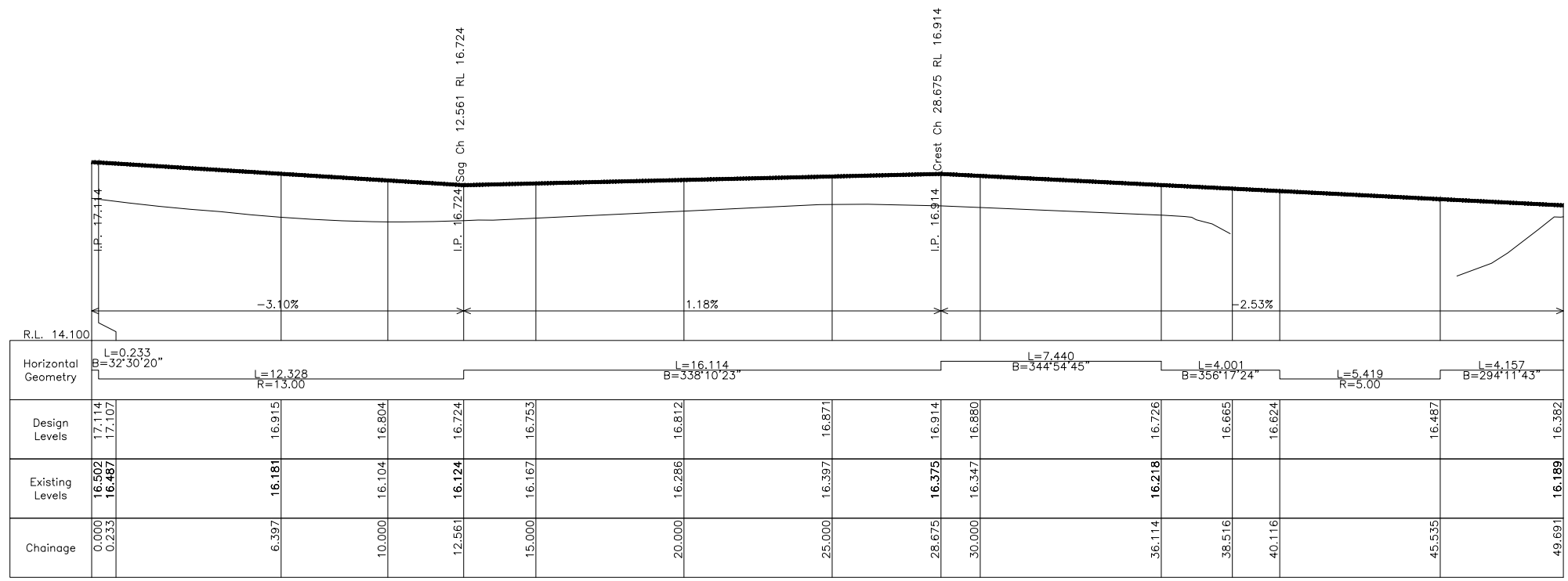
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
BOARDWALK 02 DETAILS

DRAWING NO.	2128-C27
ISSUE.	B
SHEET	27 OF 38

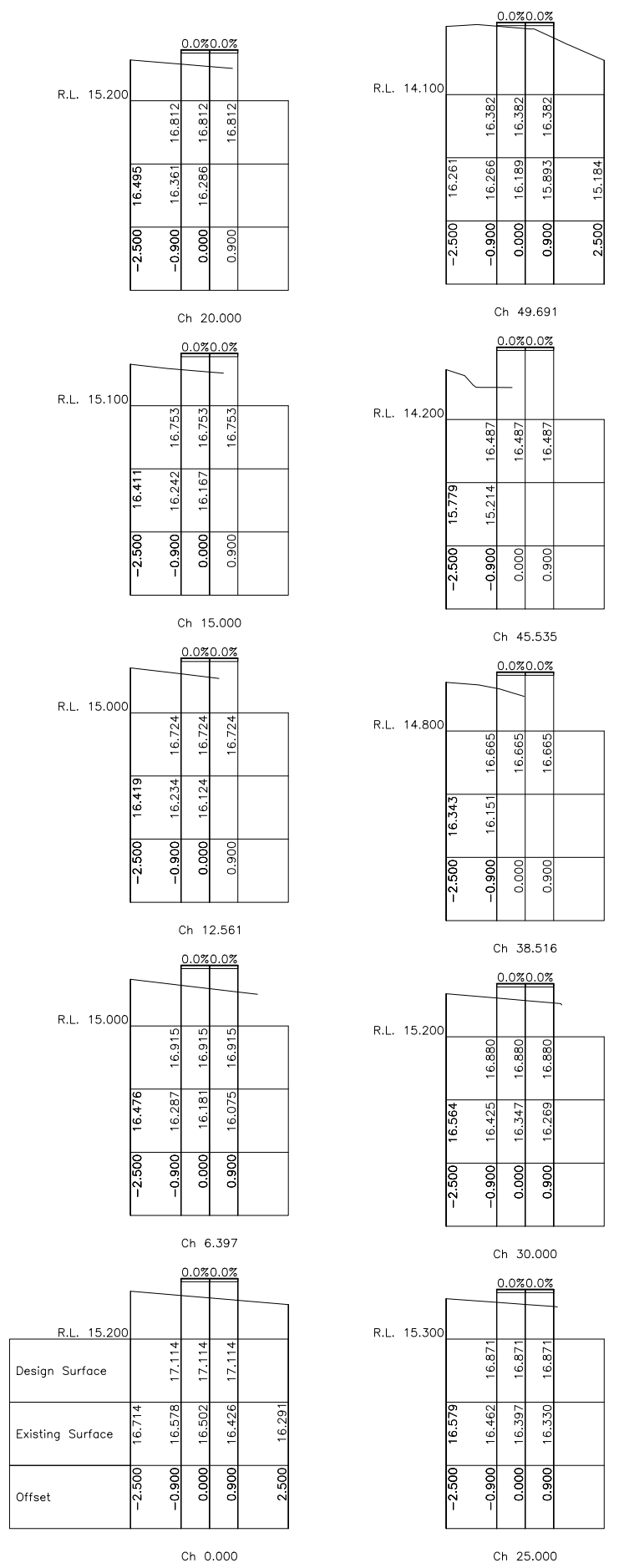
City Council
SCC PLAN REFERENCE
5516.61



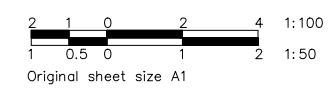
BOARDWALK 05 PLAN
SCALE 1:100 @ A1, 1:200 @ A3



BOARDWALK 05 LONGITUDINAL SECTION
SCALES H 1:100 @ A1, 1:200 @ A3
V 1:50 @ A1, 1:100 @ A3



BOARDWALK 05 CROSS SECTIONS
SCALE 1:100 @ A1, 1:200 @ A3



ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

SCALES	AS SHOWN
ORIGINAL	A1

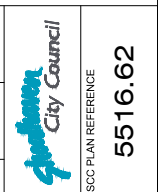
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DATUM: AHD
AZIMUTH: MGA
DRAWN: AB
DESIGNED: AB
DESIGNED DATE: JAN '22
CHECKED: AB

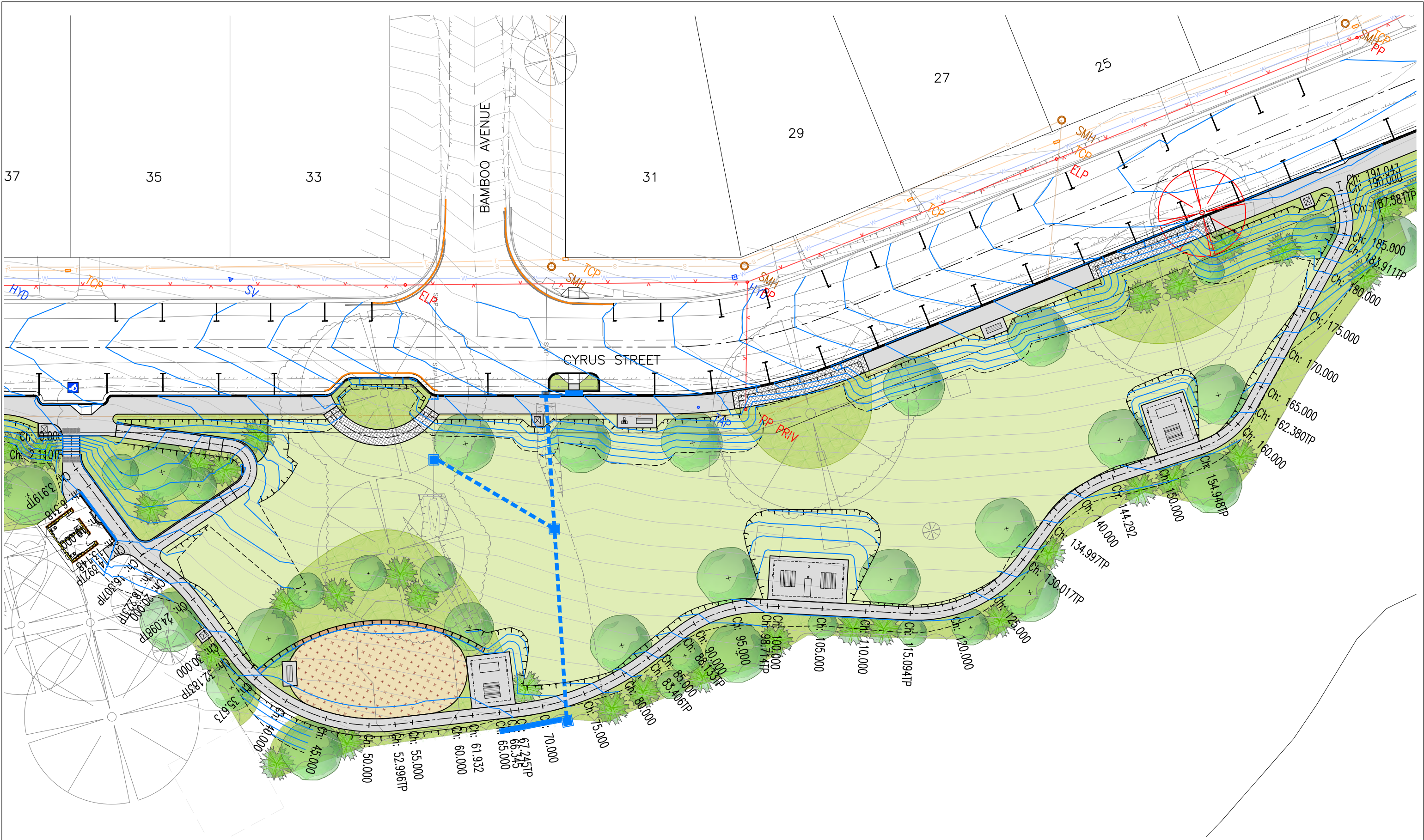
footprint
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kiama downs nsw 2533
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m. 0430 421 661

HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
BOARDWALK 05 DETAILS

DRAWING NO.	2128-C28
ISSUE.	B
SHEET	28 OF 38

SCC PLAN REFERENCE
5516.62





PATH 01 PLAN
SCALE 1:200 @ A1, 1:400 @ A3



Original sheet size A1

B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22
ISSUE	DESCRIPTION	DATE

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

SCALES	AS SHOWN
ORIGINAL	A1

SURVEYOR: SCC
DATUM: AHD
AZIMUTH: MGA
DRAWN: AB
DESIGNED: AB
DESIGNED DATE: JAN '22
CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

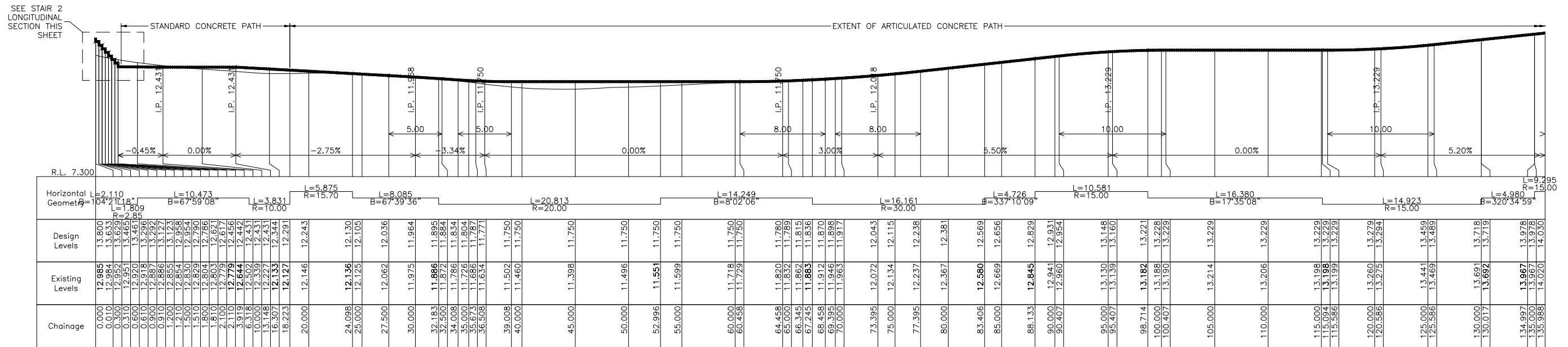
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
PATH 01 PLAN

DRAWING NO.	2128-C29
ISSUE	B
SHEET	29 OF 38

City Council
SCC PLAN REFERENCE
5518.63

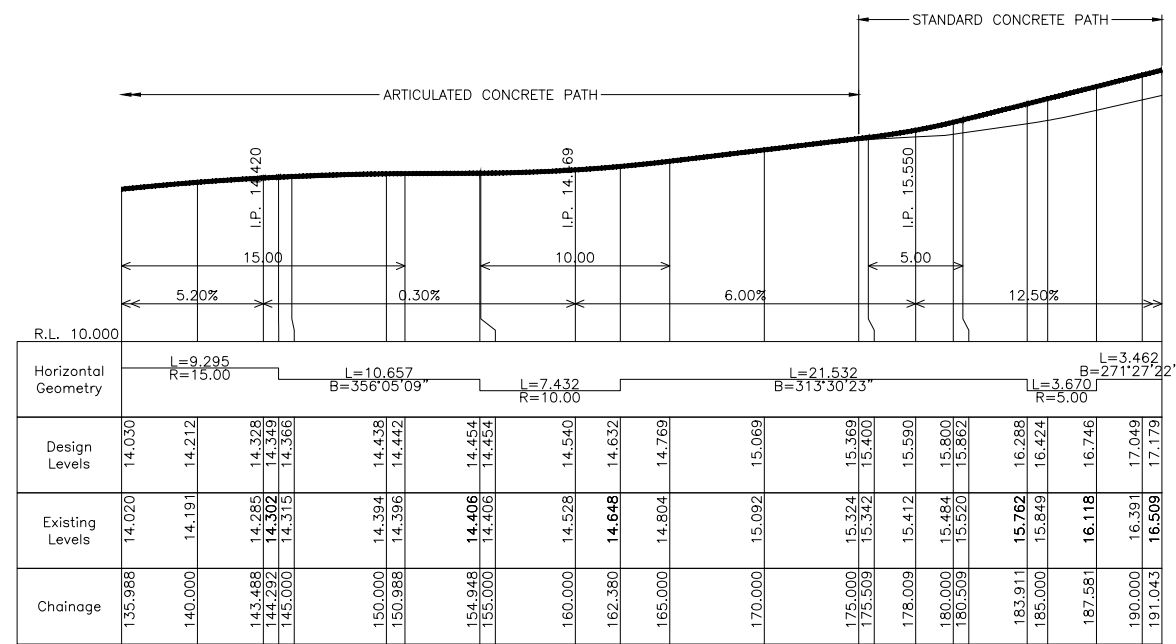
STAIR 2 COMPLIANCE TABLE

RANGE (mm)	RISER (R)		GOING (G)		SLOPE RELATIONSHIP (2R + G)	
	MIN	MAX	MIN	MAX	MIN	MAX
AS1657	130	225	215	355	540	700
BCA	115	190	240	355	550	700
DESIGNED	167		300		634	



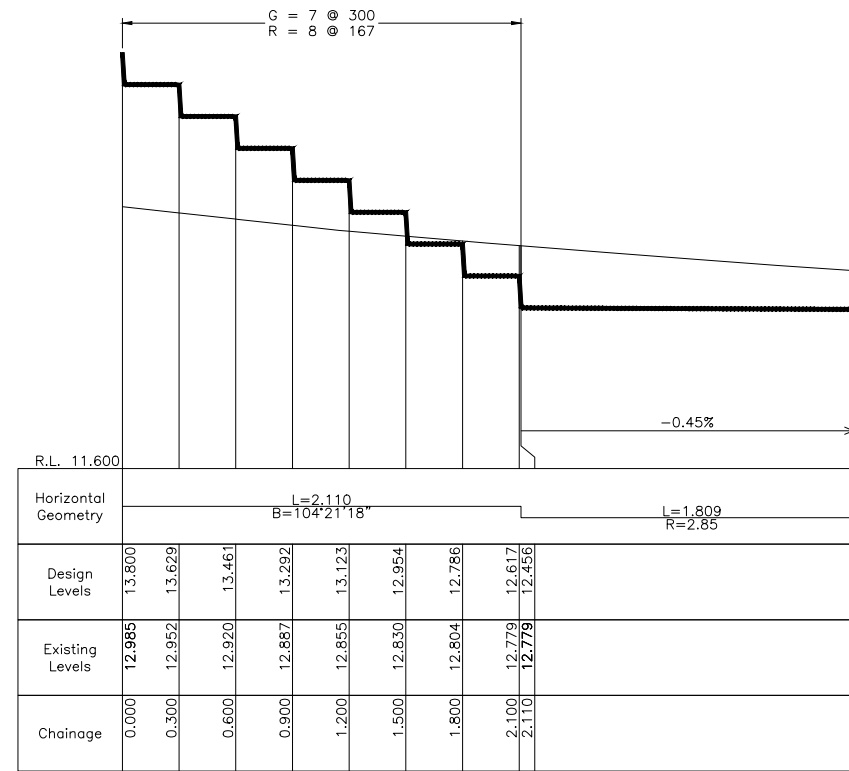
PATH 01 CENTRELINE LONGITUDINAL SECTION - PART 1

SCALES H 1:200 @ A1, 1:400 @ A3
V 1:100 @ A1, 1:200 @ A3



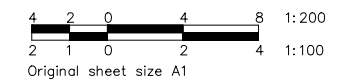
PATH 01 CENTRELINE LONGITUDINAL SECTION - PART 2

SCALES H 1:200 @ A1, 1:400 @ A3
V 1:100 @ A1, 1:200 @ A3



STAIR 2 LONGITUDINAL SECTION

SCALES H 1:20 @ A1, 1:40 @ A3
V 1:20 @ A1, 1:40 @ A3



ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

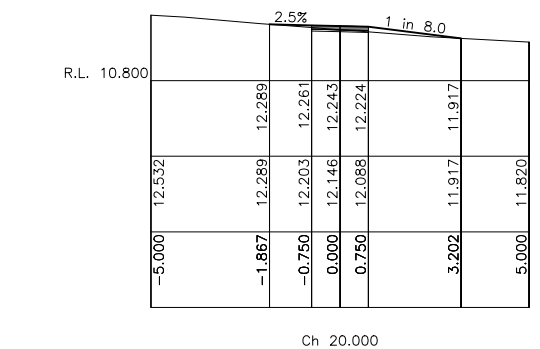
footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
PATH 01 LONGITUDINAL SECTION

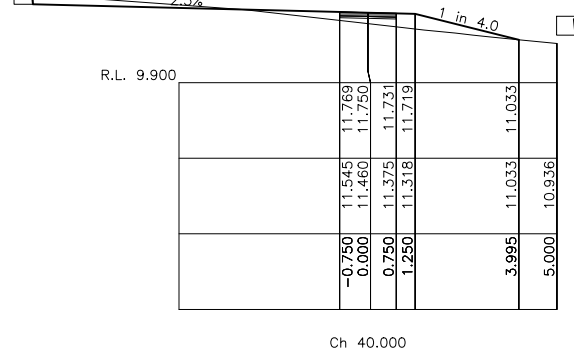
DRAWING NO.	ISSUE.	SHEET
2128-C30	B	30 OF 38

SCC PLAN REFERENCE 5518.64

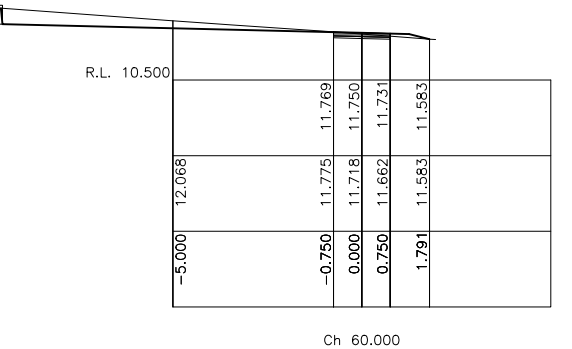
RETAINING WALL TO HIGH SIDE OF PLAYGROUND
(TYP CH35.63 TO CH66.162)



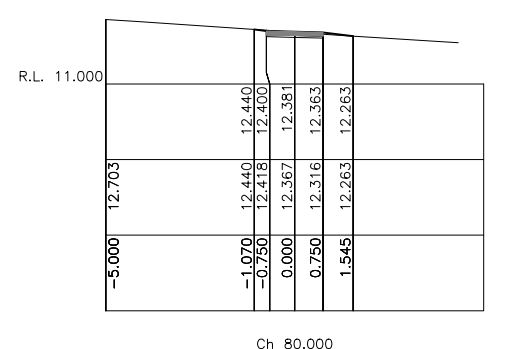
Ch 20.000



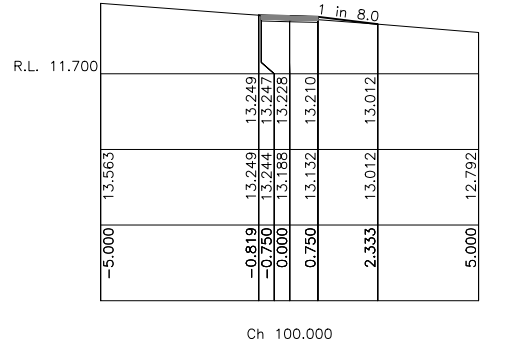
Ch 40.000



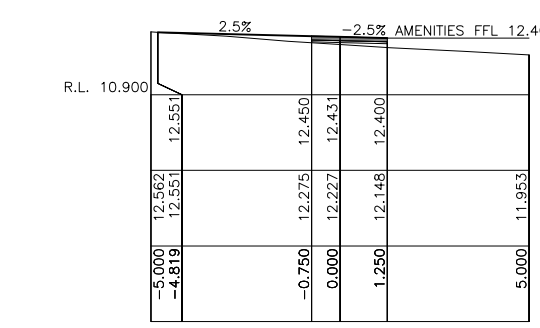
Ch 60.000



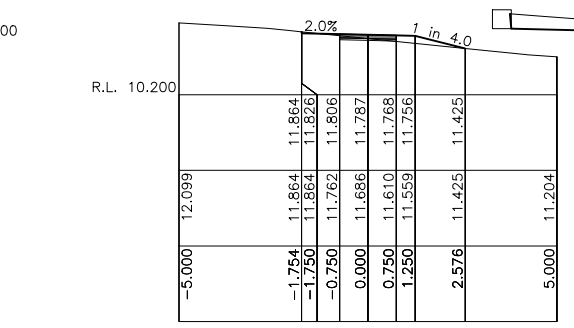
Ch 80.000



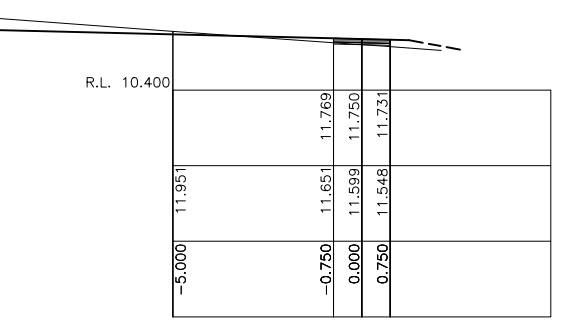
Ch 100.000



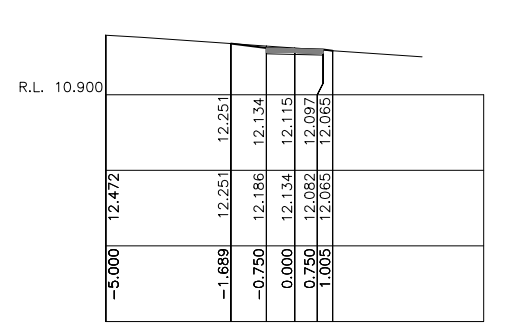
Ch 13.148



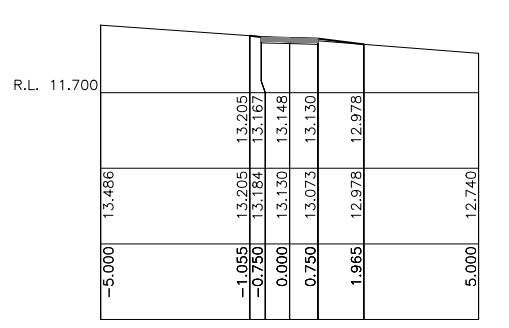
Ch 35.673



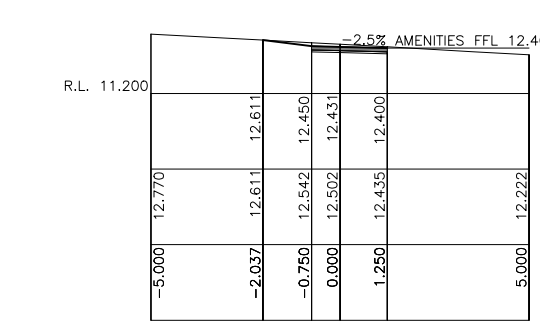
Ch 55.000



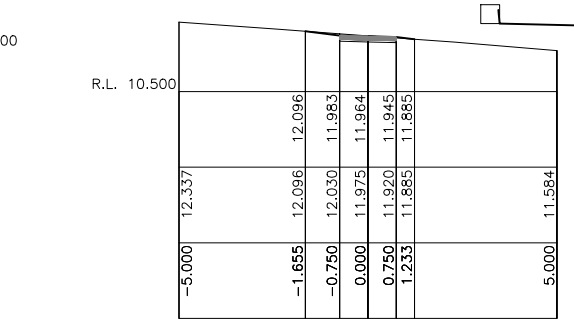
Ch 75.000



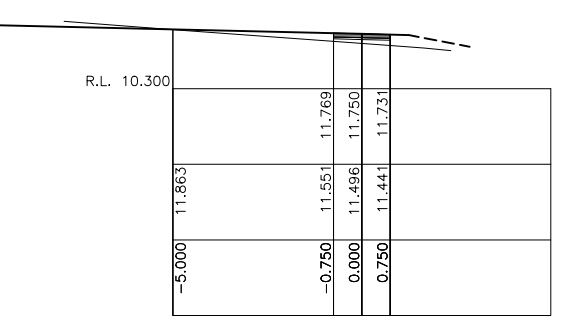
Ch 95.000



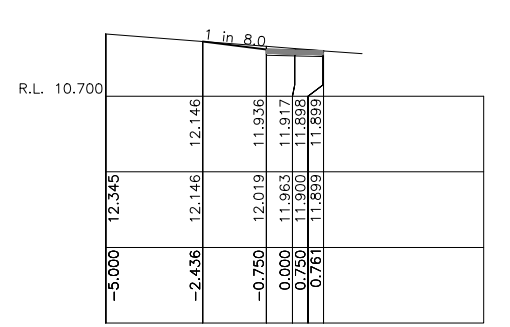
Ch 6.318



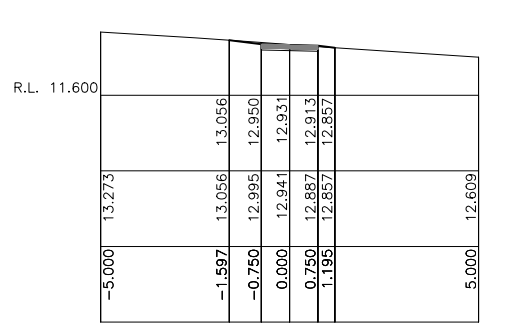
Ch 30.000



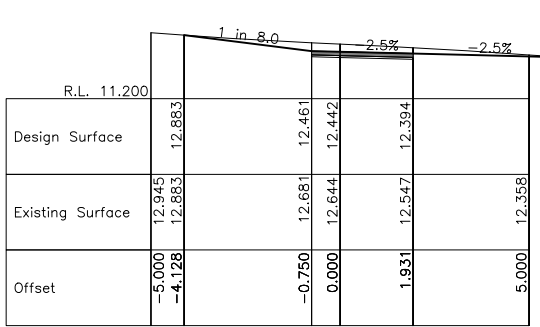
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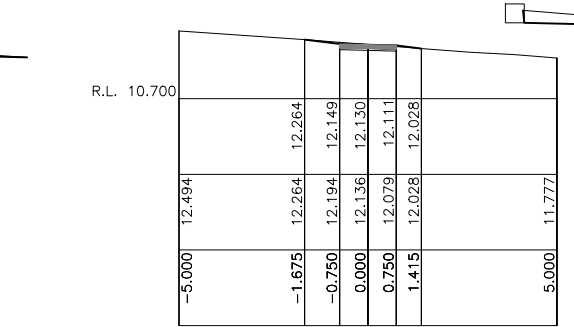
Ch 70.000



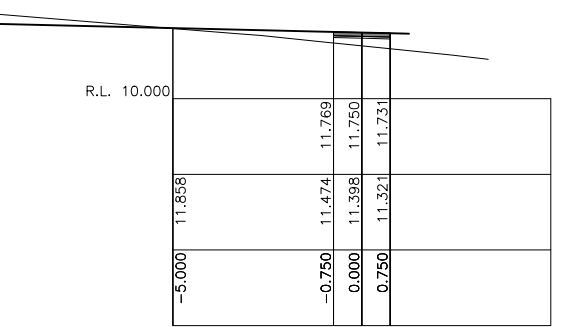
Ch 90.000



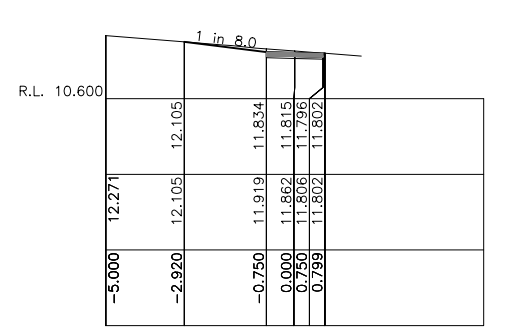
Ch 3.919



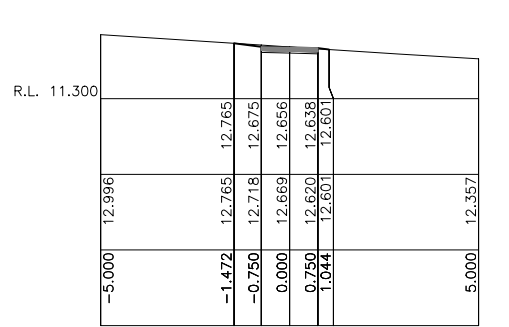
Ch 24.098



Ch 45.000



Ch 66.345



Ch 85.000

B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22
ISSUE	DESCRIPTION	DATE

ISSUED FOR CONSTRUCTION

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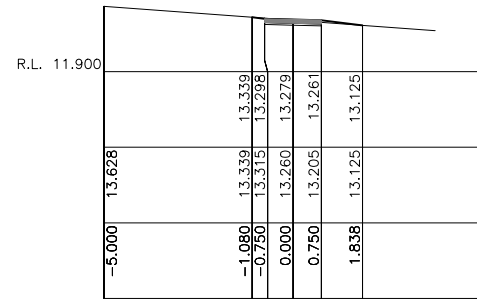
SCALES	SURVEYOR: SCC
1:100	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

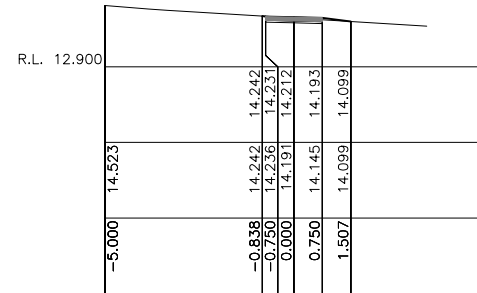
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
PATH 01 CROSS SECTIONS - SHEET 1 OF 2

DRAWING NO.	2128-C31
ISSUE.	B
SHEET	31 OF 38

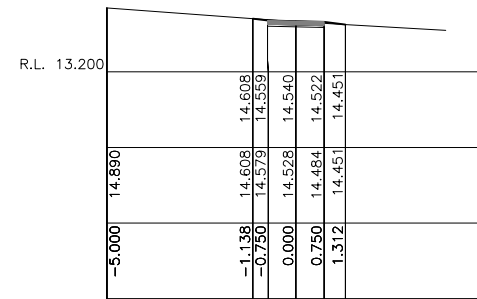
SCC PLAN REFERENCE
5518.65



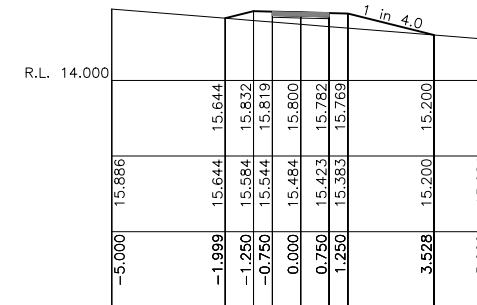
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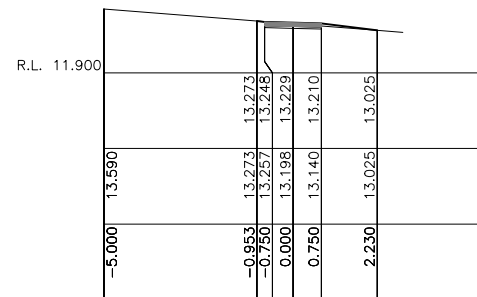
Ch 140.000



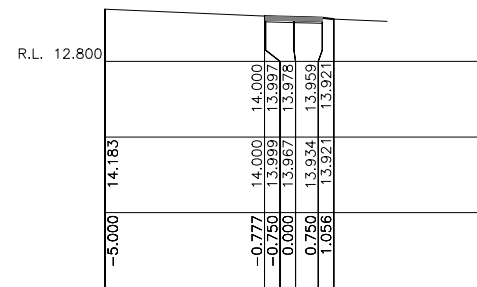
Ch 160.000



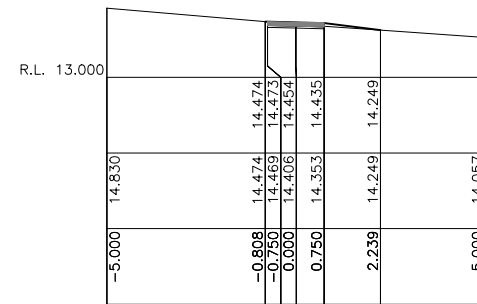
Ch 180.000



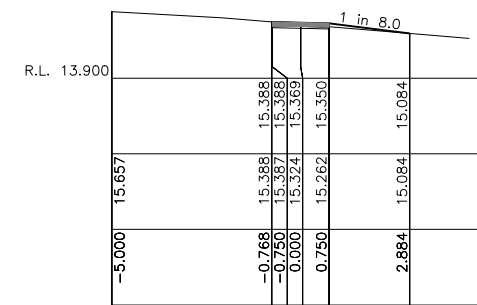
Ch 115.094



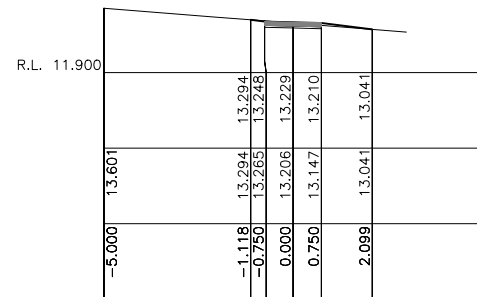
Ch 134.997



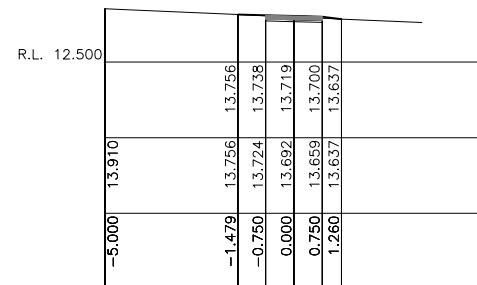
Ch 154.948



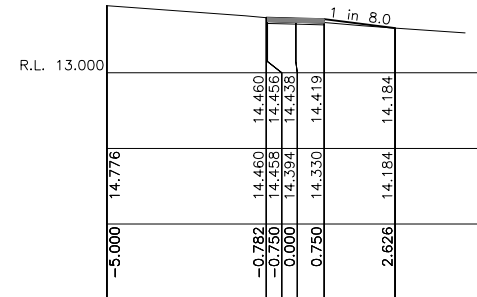
Ch 175.000



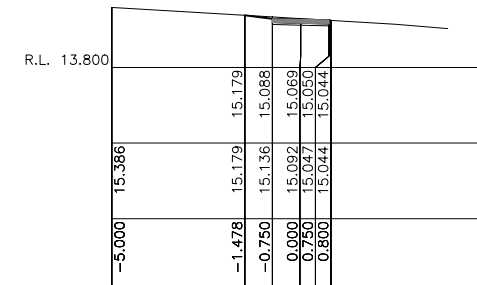
Ch 110.000



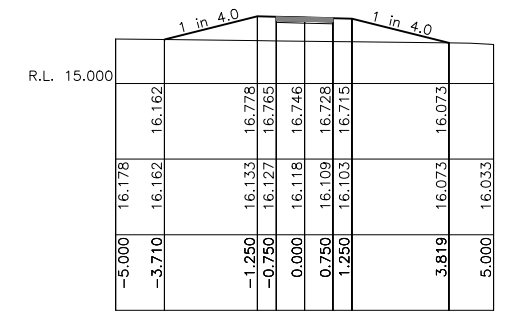
Ch 130.017



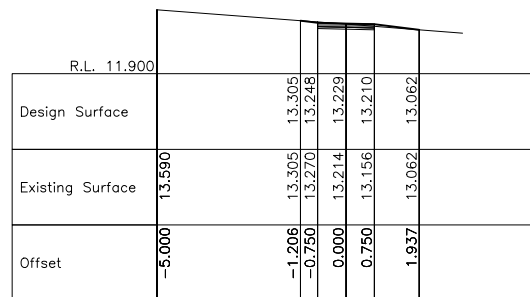
Ch 150.000



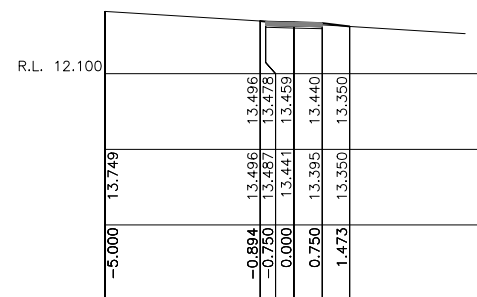
Ch 170.000



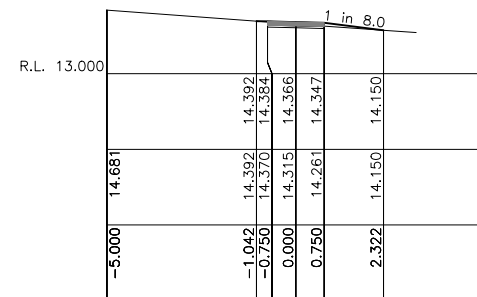
Ch 187.581



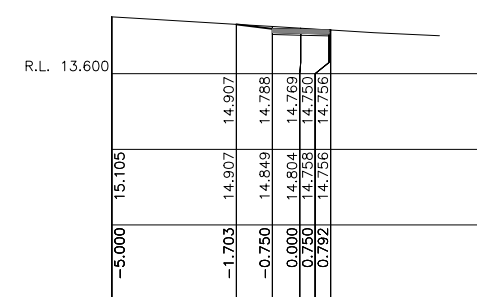
Ch 105.000



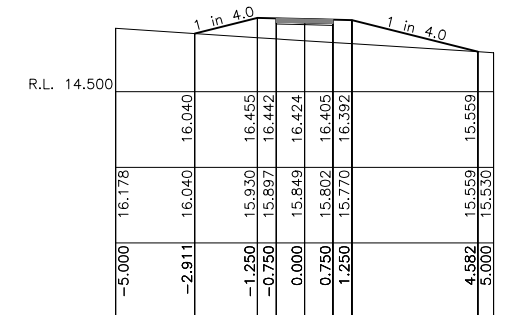
Ch 125.000



Ch 145.000



Ch 165.000



Ch 185.000

B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22
ISSUE	DESCRIPTION	DATE

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

SCALES
1:100
ORIGINAL
A1

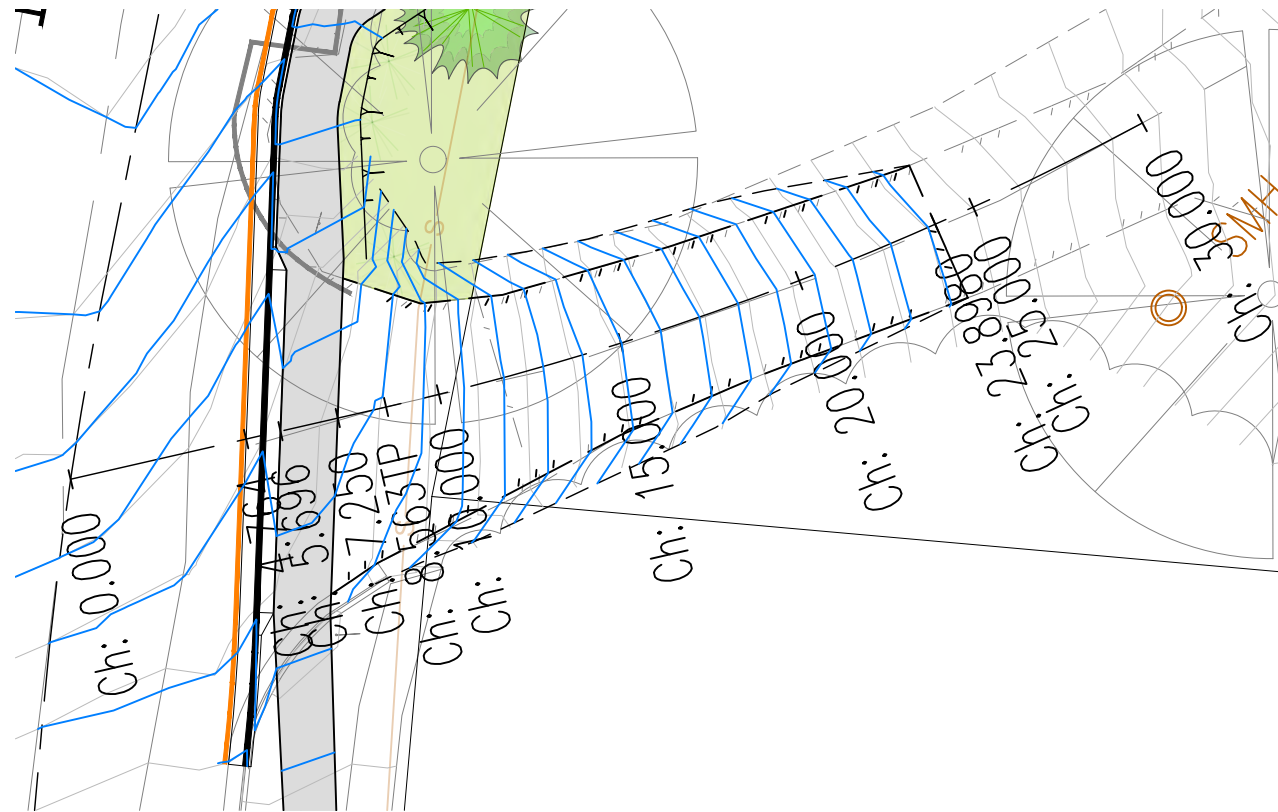
SURVEYOR: SCC
DATUM: AHD
AZIMUTH: MGA
DRAWN: AB
DESIGNED: AB
DESIGNED DATE: JAN '22
CHECKED: AB

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 kiama downs nsw 2533
 p. 02 4237 6770
 m. 0430 421 661

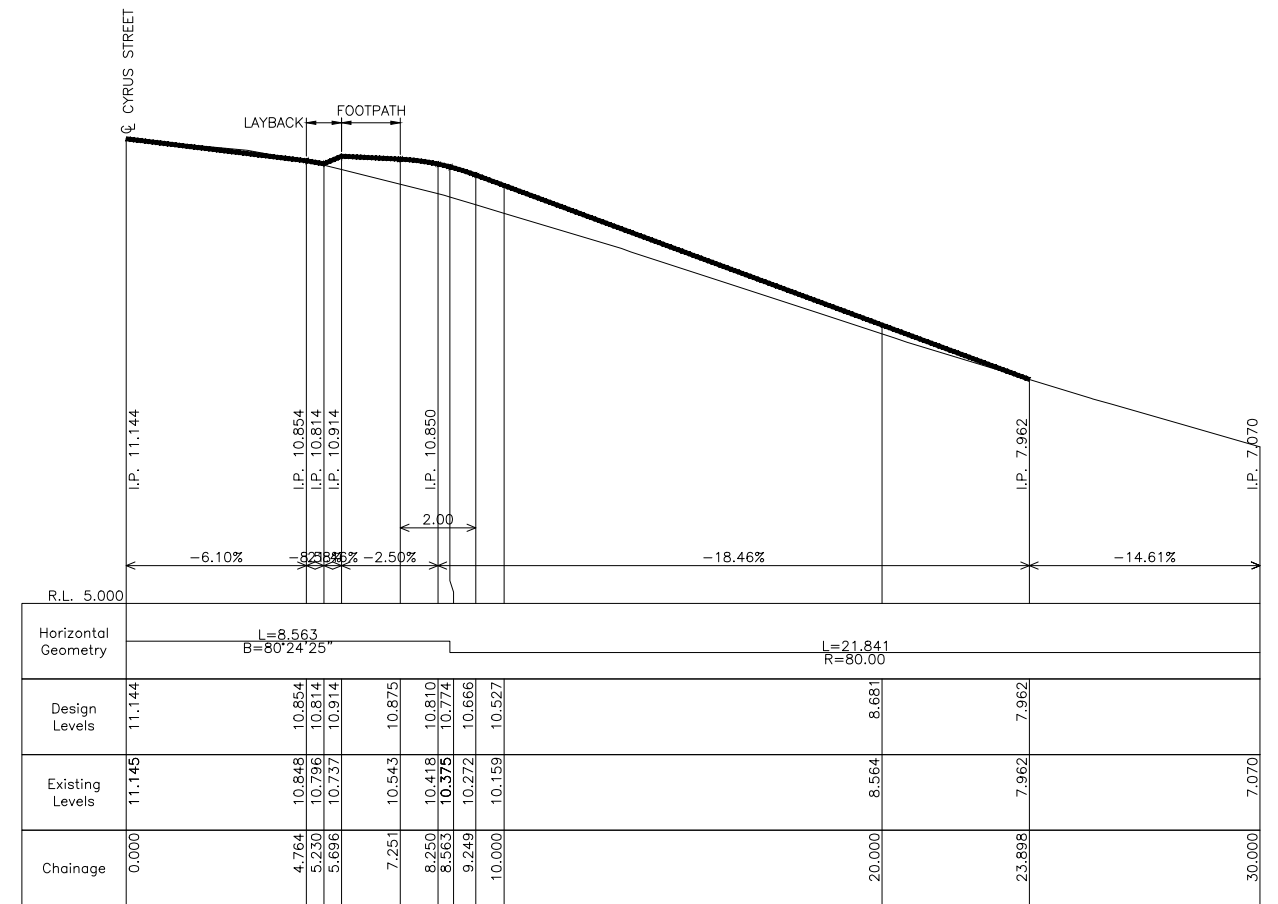
HYAMS BEACH MASTERPLAN (STAGE 1)
 CIVIL ENGINEERING DRAWINGS
 PATH 01 CROSS SECTIONS - SHEET 2 OF 2

DRAWING NO.	2128-C32
ISSUE.	B
SHEET	32 OF 38

SCC PLAN REFERENCE
5518.66



MC02 PLAN
SCALE 1:100 @ A1, 1:200 @ A3



MC02 LONGITUDINAL SECTION

SCALES H 1:200 @ A1, 1:400 @ A3
V 1:100 @ A1, 1:200 @ A3

	R.L. 9.200		7.4%		-7.4%	
Design Surface						
Existing Surface	10.925	10.773	10.602	11.022	10.774	10.503
Offset	-5.000	-4.356	-3.361	0.000	3.670	4.213
					10.232	10.367
					10.367	10.444

Ch 8.563

	R.L. 8.200		-3.0%		-3.1%	
Design Surface						
Existing Surface	9.343	9.341	9.365	9.542	9.604	9.534
Offset	-2.890	-2.678	-2.096	0.000	2.243	3.085
					9.328	9.264

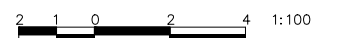
Ch 15.000

	R.L. 7.400		-4.0%		-2.8%	
Design Surface						
Existing Surface	8.442	8.452	8.500	8.603	8.681	8.625
Offset	-2.802	-2.547	-1.945	0.000	1.986	2.385
					8.532	8.526
					8.526	8.512

Ch 20.000

	R.L. 6.800		-6.2%		-2.1%	
Design Surface						
Existing Surface	7.810	7.857	7.857	7.856	7.962	7.918
Offset	-2.857	-1.703	-1.701	0.000	2.126	2.127
					7.918	7.918
					7.918	7.875

Ch 23.898



Original sheet size A1

ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

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SCALES	SURVEYOR: SCC
1:100 UNO	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

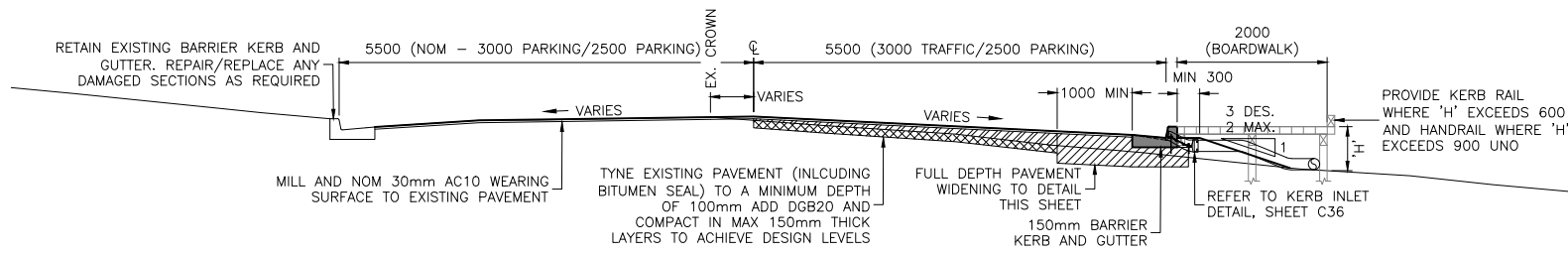
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HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
MC02 LONGITUDINAL AND CROSS SECTIONS

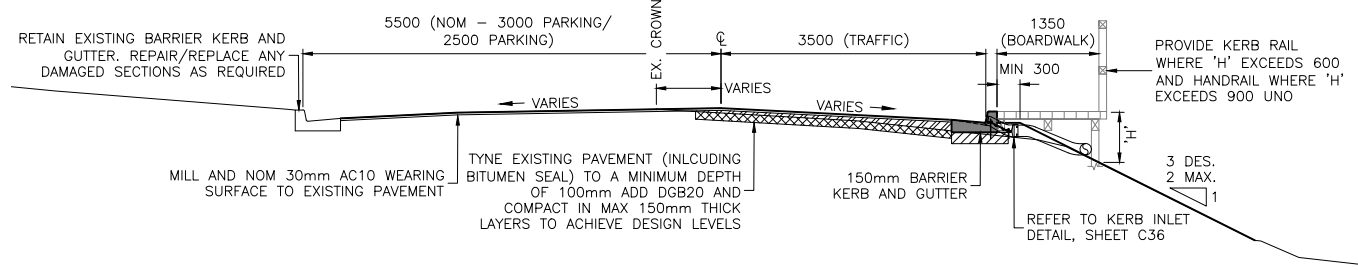
DRAWING NO. 2128-C33
ISSUE. B
SHEET 33 OF 38

City Council

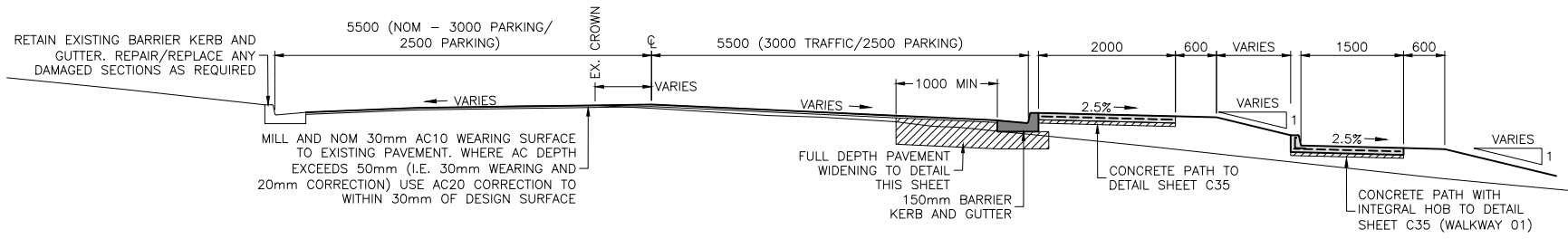
SCC PLAN REFERENCE
5518.67



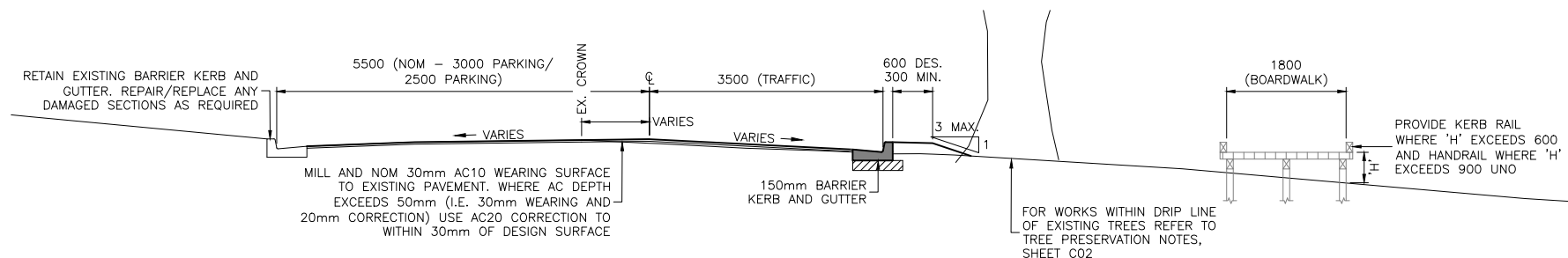
A TYPICAL SECTION
SCALE 1:50 @ A1, 1:100 @ A3



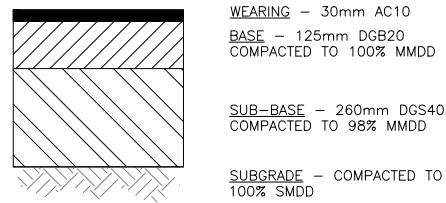
B TYPICAL SECTION
SCALE 1:50 @ A1, 1:100 @ A3



C TYPICAL SECTION
SCALE 1:50 @ A1, 1:100 @ A3

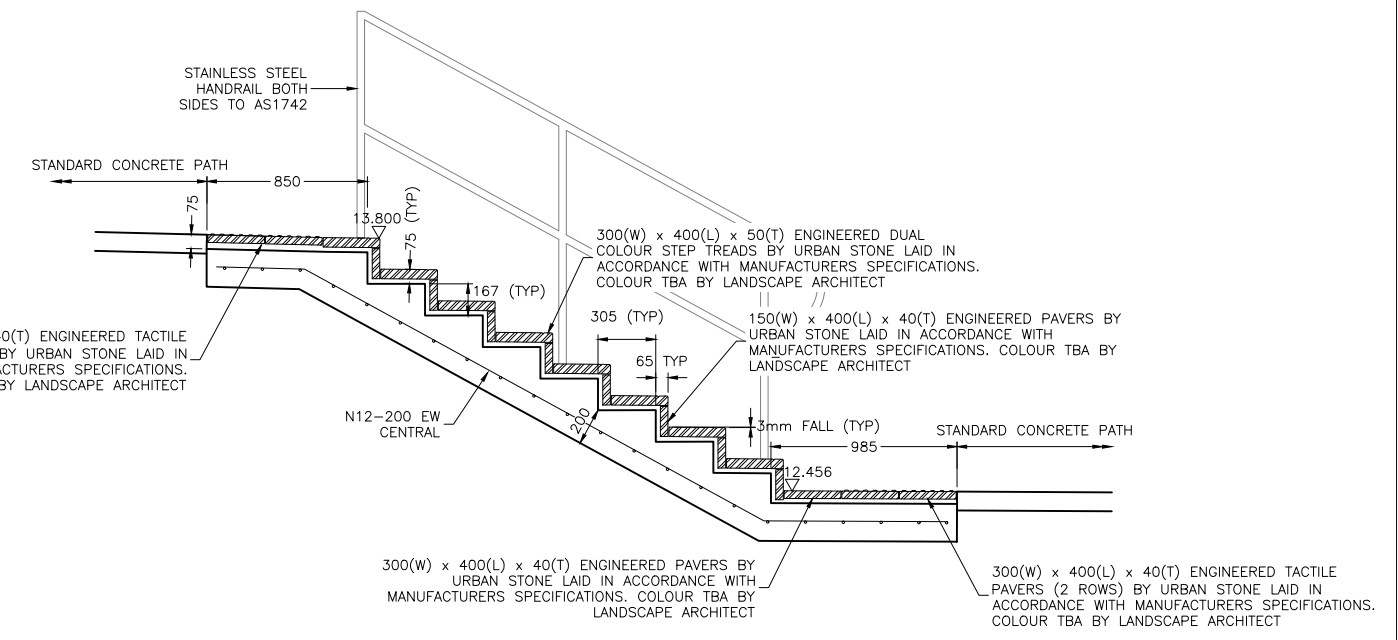


D TYPICAL SECTION
SCALE 1:50 @ A1, 1:100 @ A3

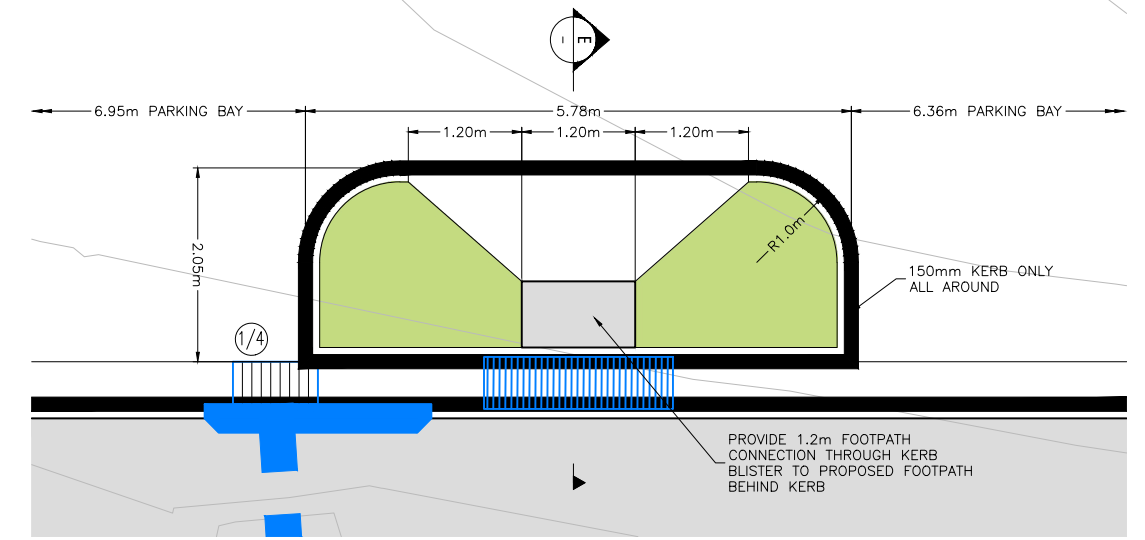


TYPICAL PAVEMENT DETAIL
NOT TO SCALE

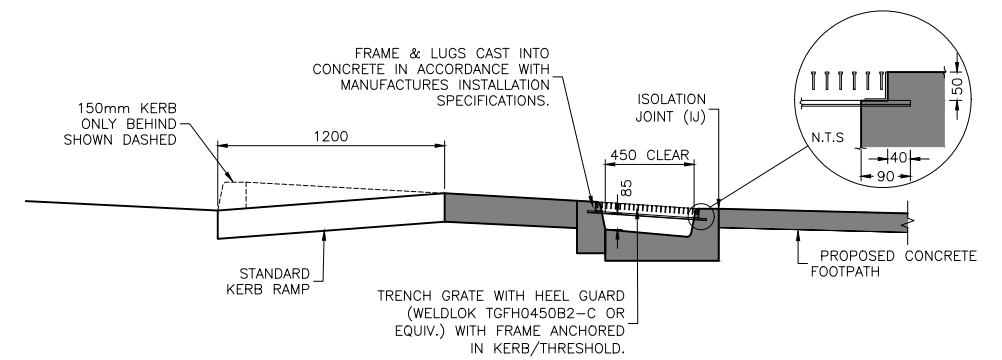
NOTE: PAVEMENT DESIGN TO BE READ IN CONJUNCTION WITH 'REPORT ON GEOTECHNICAL PAVEMENT INVESTIGATION' BY TERRA INSIGHT DATED 20 MAY 2022.



STAIR 2 DETAILS
SCALE 1:20 @ A1, 1:40 @ A3



KERB BLISTER DETAIL
SCALE 1:40 @ A1, 1:80 @ A3



E SECTION
SCALE 1:20 @ A1, 1:400 @ A3

ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
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ISSUED FOR CONSTRUCTION

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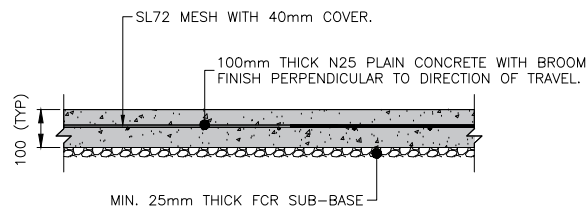
SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

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m. 0430 421 661

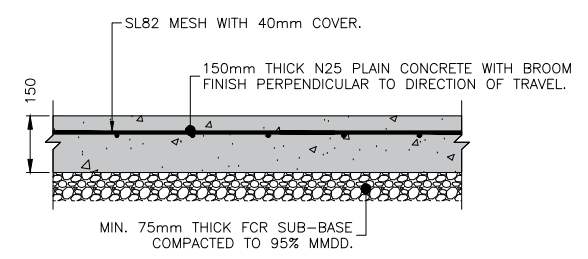
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
TYPICAL SECTIONS AND DETAILS

DRAWING NO.	ISSUE.	SHEET
2128-C34	B	34 OF 38

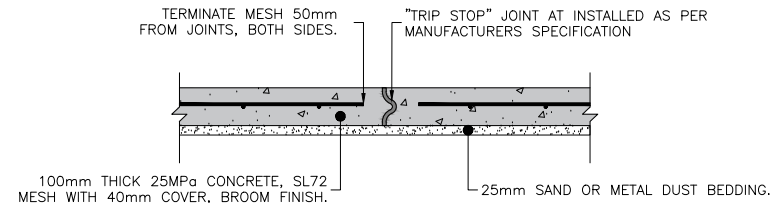
SCC PLAN REFERENCE: 5518.68



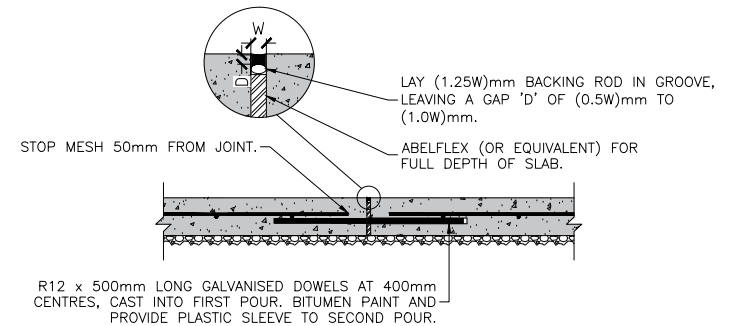
STANDARD CONCRETE PATH DETAIL
SCALE 1:10 @ A1, 1:20 @ A3



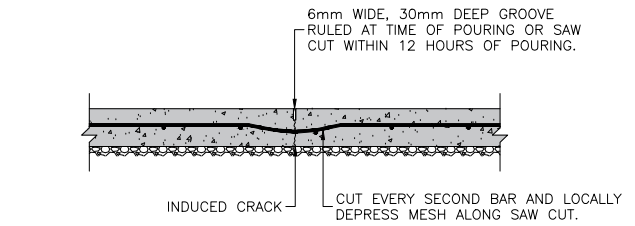
TRAFFICABLE CONCRETE PATH DETAIL
SCALE 1:10 @ A1, 1:20 @ A3



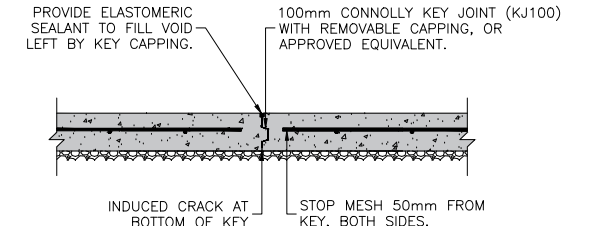
ARTICULATED PATH DETAIL
SCALE 1:10 @ A1, 1:20 @ A3



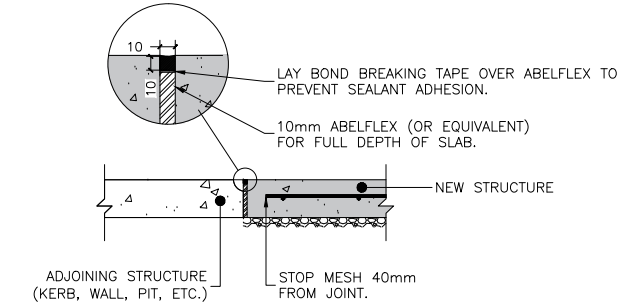
DOWELLED EXPANSION JOINT DETAIL
SCALE 1:10 @ A1, 1:20 @ A3



SAW CUT CONTRACTION JOINT DETAIL
SCALE 1:10 @ A1, 1:20 @ A3



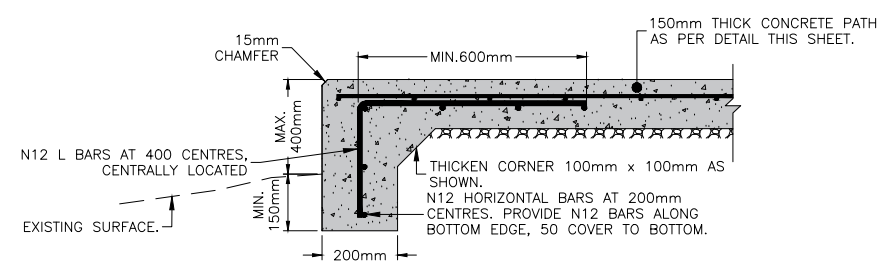
KEY CONTRACTION JOINT DETAIL
SCALE 1:10 @ A1, 1:20 @ A3



ISOLATION JOINT DETAIL
SCALE 1:10 @ A1, 1:20 @ A3

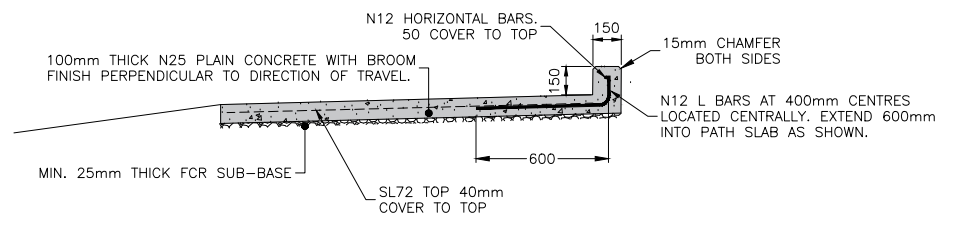
SHARED PATH JOINTING NOTES

1. SAW CUT/ARTICULATED JOINTS TO BE PLACED LATERALLY AT INTERVALS NOT EXCEEDING 1 X PATH WIDTH (i.e. 2.0m TYPICAL). SAW CUTS CAN BE SUBSTITUTED WITH KEY JOINTS.
2. FOR OTHER THAN ARTICULATED PATH DOWELLED EXPANSION JOINTS OR KEY JOINTS TO BE PLACED LATERALLY AT INTERVALS NOT EXCEEDING 3 X PATH WIDTH (i.e. 6m TYPICAL), REPLACING THE SAW CUT JOINT AT THAT INTERVAL. FOR ARTICULATED PATH ARTICULATED JOINTS ARE TO BE USED THROUGHOUT.
3. ISOLATION JOINTS TO BE USED BETWEEN NEW STRUCTURES AND ADJOINING STRUCTURES (e.g. BETWEEN NEW SLABS AND EXISTING KERBS, PITS OR DRIVEWAYS).



DROP EDGE BEAM DETAIL
SCALE 1:10 @ A1, 1:20 @ A3

(LOCATE AS REQUIRED)



CONCRETE HOB DETAIL
SCALE 1:10 @ A1, 1:20 @ A3

ISSUE	DESCRIPTION	DATE
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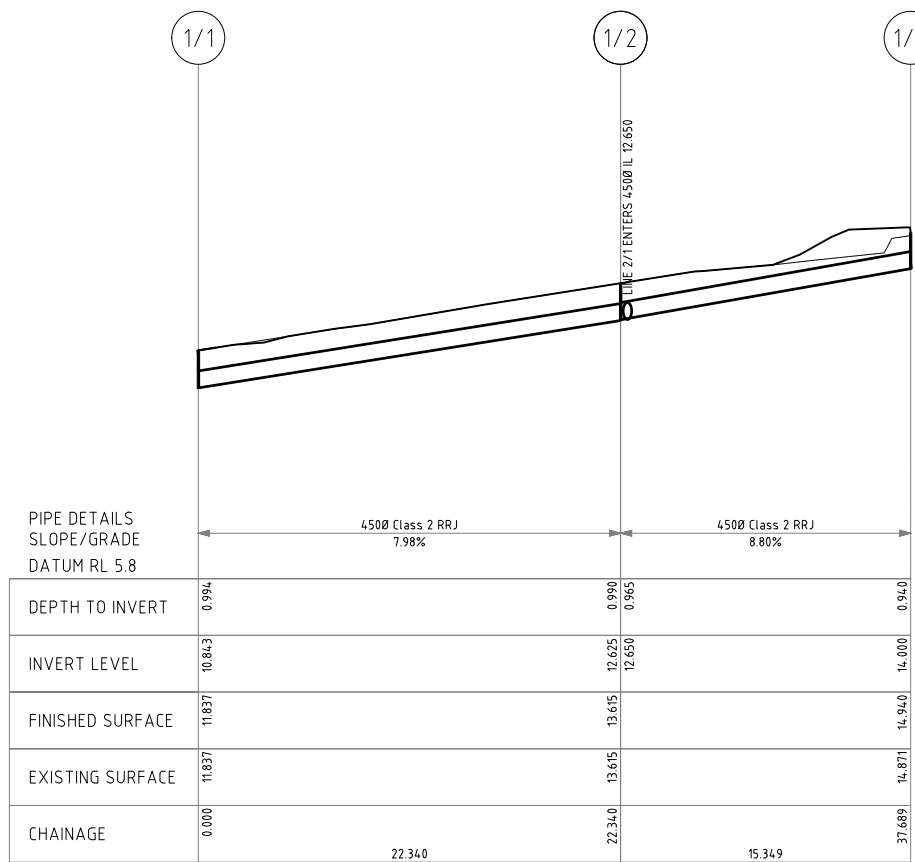
SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
	DRAWN: AB
	DESIGNED: AB
A1	DESIGNED DATE: JAN '22
	CHECKED: AB

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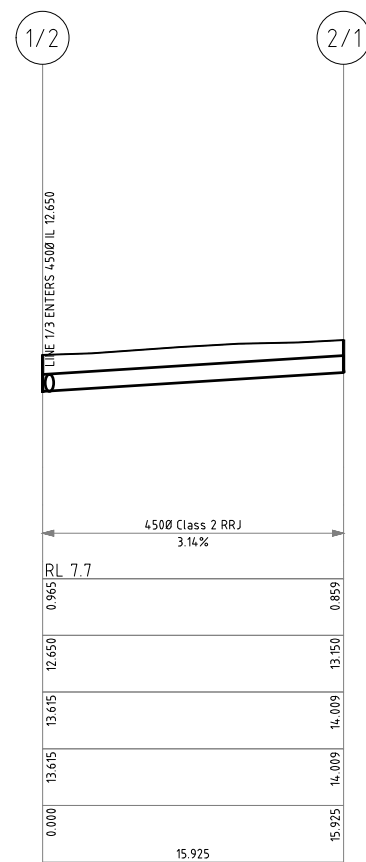
HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
CONCRETE FOOTPATH DETAILS

DRAWING NO. 2128-C35
ISSUE B
SHEET 35 OF 38

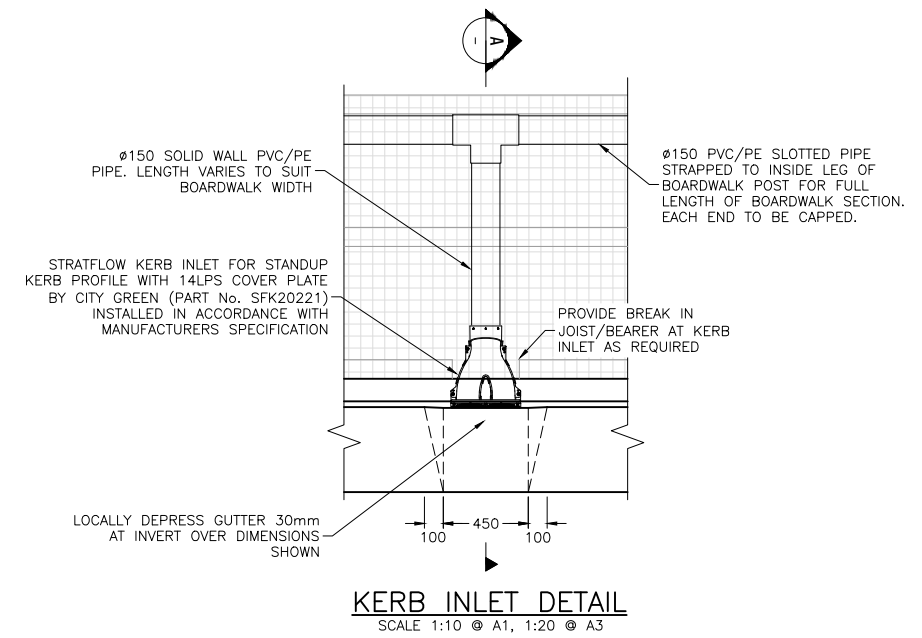
City Council
SCC PLAN REFERENCE
5518.69



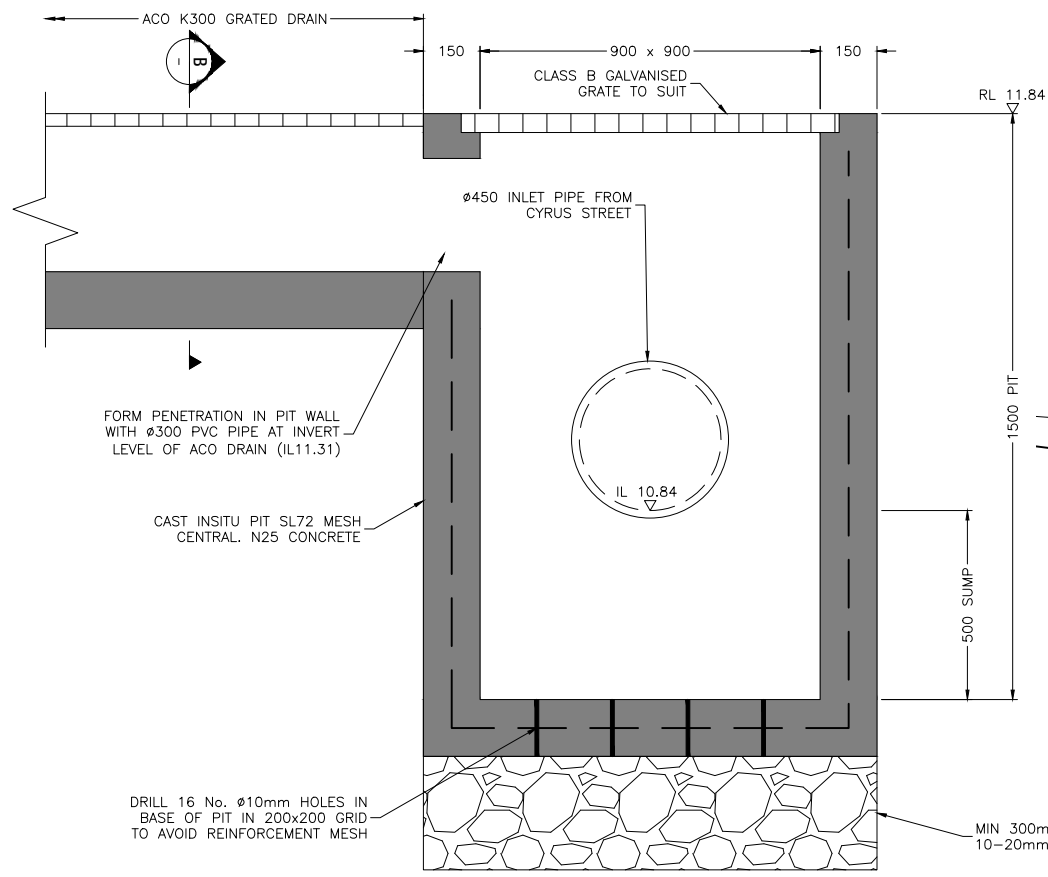
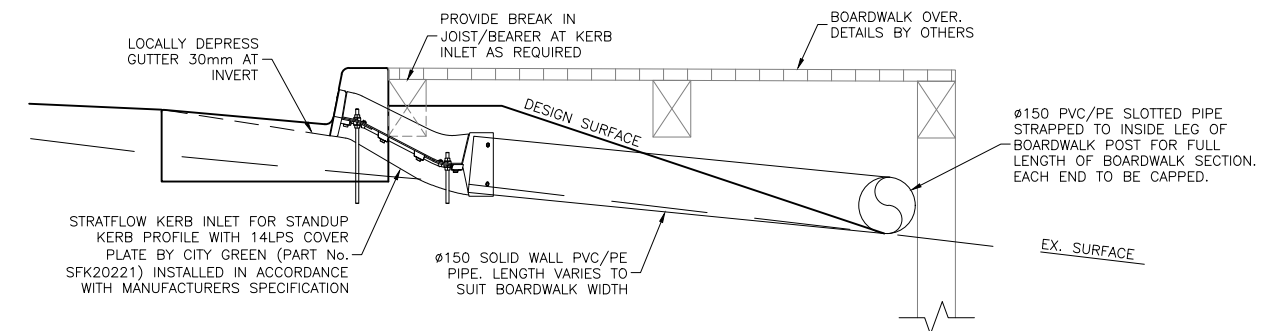
LINE 1
 SCALES H 1:200 @ A1, 1:400 @ A3
 V 1:100 @ A1, 1:200 @ A3



LINE 2
 SCALES H 1:200 @ A1, 1:400 @ A3
 V 1:100 @ A1, 1:200 @ A3

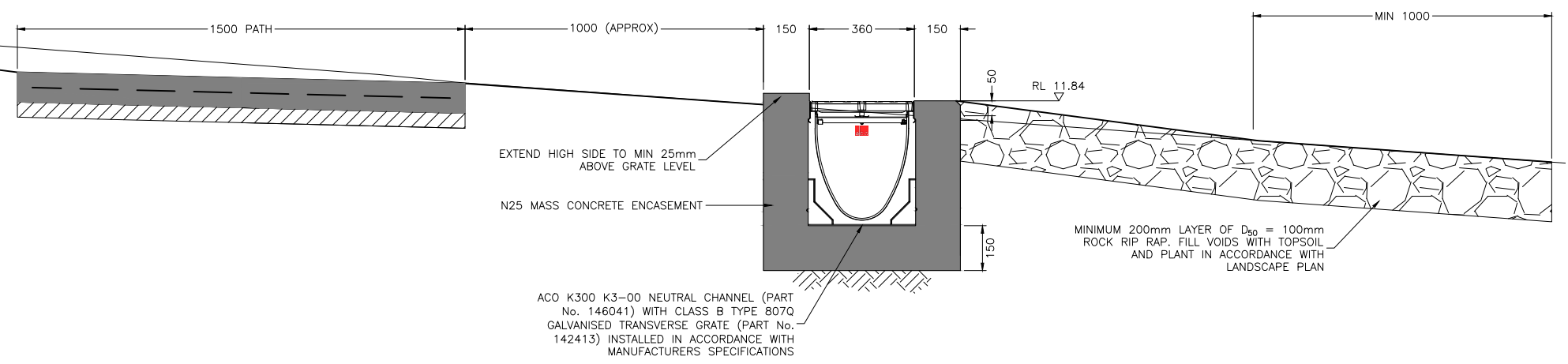


NOTE: FOR LOCATION OF KERN INLETS REFER TO MK06 LIP LONGITUDINAL SECTION, SHEETS C21-C24



PIT SCHEDULE

PIT	EASTING	NORTHING	DESCRIPTION
1/1	289762.943	6113549.162	REFER TO DETAIL THIS SHEET
1/2	289741.279	6113553.285	JUNCTION PIT IN GENERAL ACCORDANCE WITH SCC STD DWG 2637-06
1/3	289726.209	6113556.194	STANDARD KERB INLET PIT WITH 1.8m LINTEL IN GENERAL ACCORDANCE WITH SCC STD DWG 2637-03
2/1	289730.138	6113541.906	JUNCTION PIT IN GENERAL ACCORDANCE WITH SCC STD DWG 2637-06



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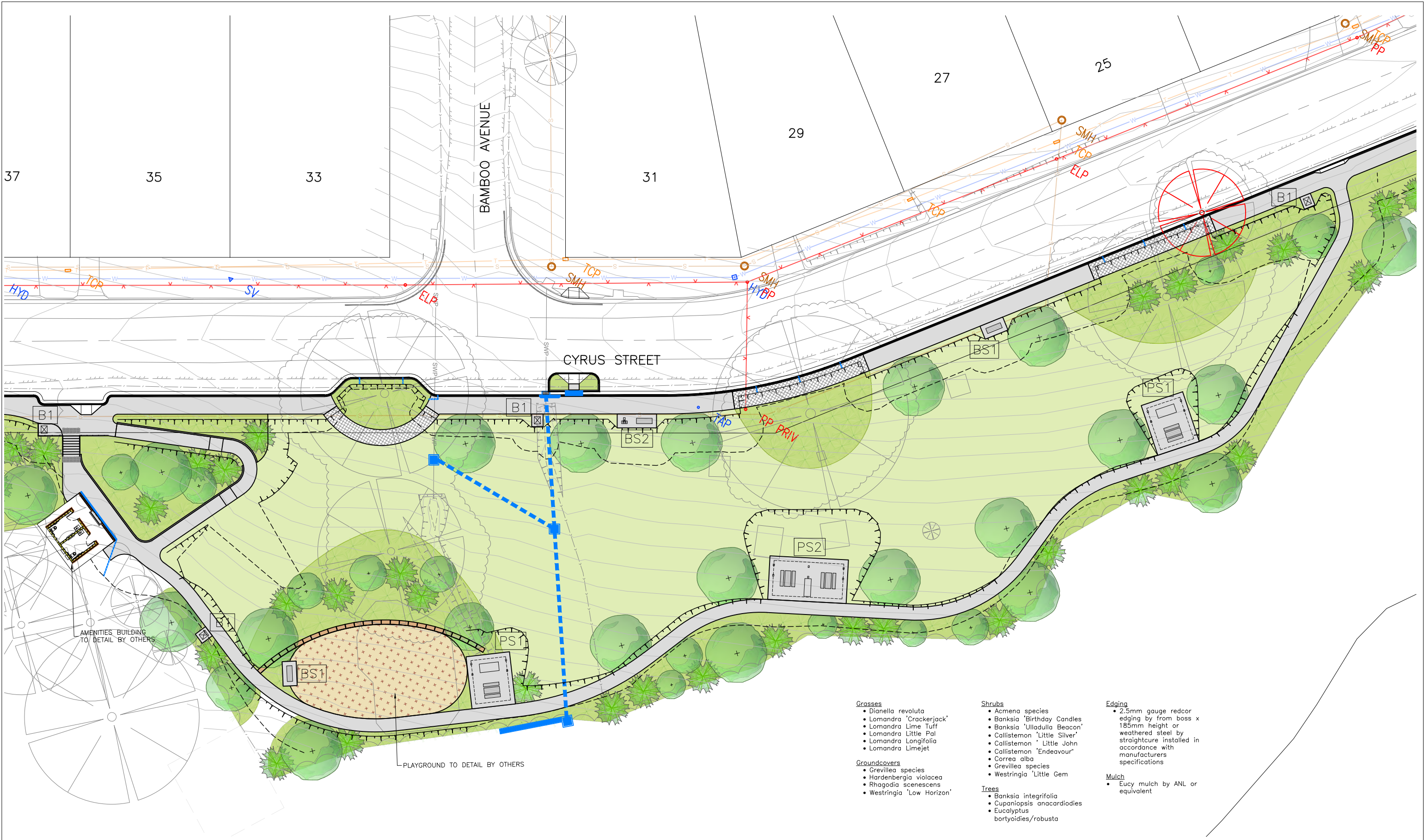
SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

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HYAMS BEACH MASTERPLAN (STAGE 1)
 CIVIL ENGINEERING DRAWINGS
 DRAINAGE DETAILS

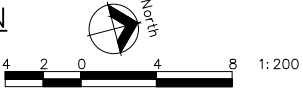
DRAWING NO.	ISSUE.	SHEET
2128-C36	B	36 OF 38

SCC PLAN REFERENCE: 5518.70



FORSHORE RESERVE LANDSCAPE PLAN

SCALE 1:200 @ A1, 1:400 @ A3



Original sheet size A1

- Grasses**
 - Dianella revoluta
 - Lomandra 'Crackerjack'
 - Lomandra Lime Tuff
 - Lomandra Little Pal
 - Lomandra Longifolia
 - Lomandra Limejet
- Groundcovers**
 - Grevillea species
 - Hardenbergia violacea
 - Rhagodia scenescens
 - Westringia 'Low Horizon'
- Shrubs**
 - Acmena species
 - Banksia 'Birthday Candles'
 - Banksia 'Ulladulla Beacon'
 - Callistemon 'Little Silver'
 - Callistemon 'Little John'
 - Callistemon 'Endeavour'
 - Correa alba
 - Grevillea species
 - Westringia 'Little Gem'
- Trees**
 - Banksia integrifolia
 - Cupaniopsis anacardioides
 - Eucalyptus boryoides/robusta
- Edging**
 - 2.5mm gauge redcor edging by from boss x 185mm height or weathered steel by straighture installed in accordance with manufacturers specifications
- Mulch**
 - Eucy mulch by ANL or equivalent

ISSUED FOR CONSTRUCTION

SCALES
AS SHOWN

ORIGINAL

A1

SURVEYOR: SCC
DATUM: AHD
AZIMUTH: MGA
DRAWN: AB
DESIGNED: AB
DESIGNED DATE: JAN '22
CHECKED: AB

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HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS

FORESHORE RESERVE LANDSCAPE PLAN

DRAWING NO.
2128-LD01

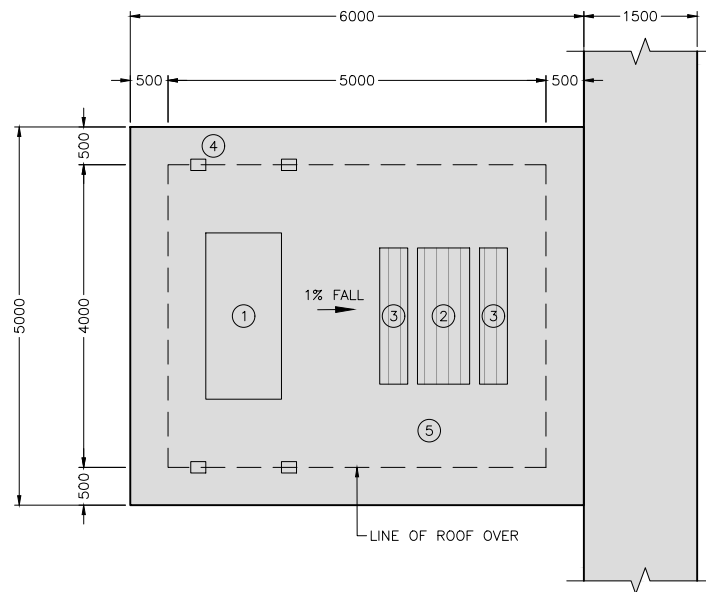
ISSUE
B

SHEET 37 OF 38

City Council
SCC PLAN REFERENCE
5518.71

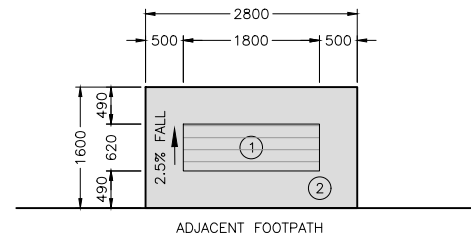
ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.



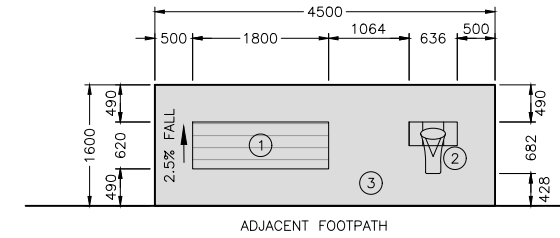
- ① ELECTRIC BBQ TO LANDSCAPE ARCHITECTS SPECIFICATIONS
- ② 1800mm ECO BOARDWALK BENCH WITH SPOTTED GUM FINISHED PLANKS BY GOSSI PARK AND STREET FURNITURE
- ③ 1800mm ECO ACCESS TABLE WITH SPOTTED GUM FINISHED PLANKS BY GOSSI PARK AND STREET FURNITURE
- ④ K673 LONGREACH SHELTER BY LANDMARK PRODUCTS
- ⑤ 100mm BLUESTONE CONCRETE PAVING TO STANDARD CONCRETE PATH DETAILS SHEET C34

PICNIC SHELTER 1 (PS1) DETAIL
SCALE 1:50 @ A1, 1:100 @ A3



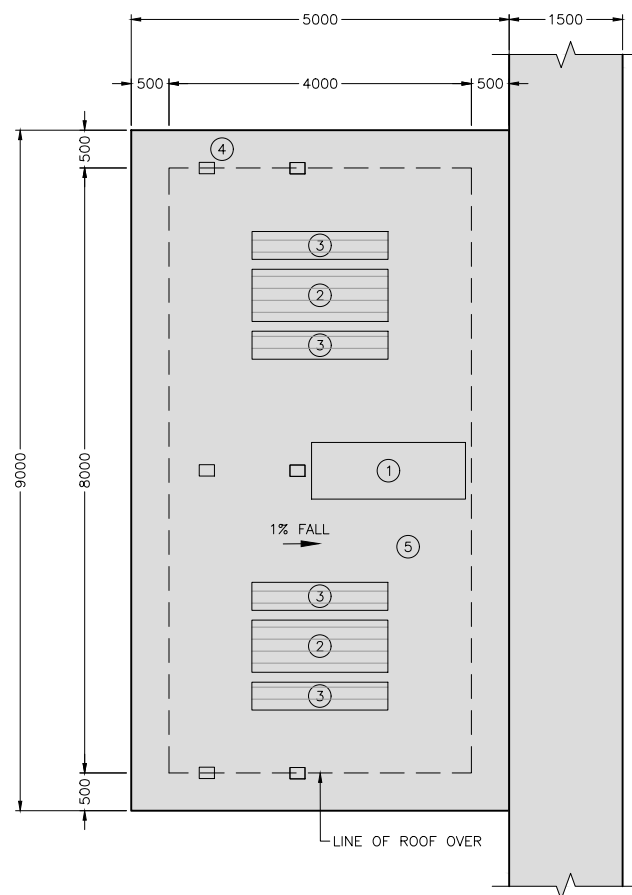
BENCH SEAT (BS1) DETAIL
SCALE 1:50 @ A1, 1:100 @ A3

- ① 1800mm ECO BOULEVARD BENCH WITH SPOTTED GUM FINISHED PLANKS BY GOSSI PARK AND STREET FURNITURE
- ② 100mm BLUESTONE CONCRETE PAVING TO STANDARD CONCRETE PATH DETAILS SHEET C34



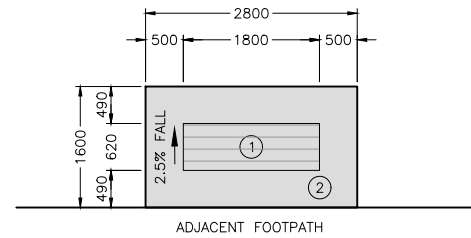
BENCH SEAT AND DRINKING FOUNTAIN (BS2) DETAIL
SCALE 1:50 @ A1, 1:100 @ A3

- ① 1800mm ECO BOULEVARD BENCH WITH SPOTTED GUM FINISHED PLANKS BY GOSSI PARK AND STREET FURNITURE
- ② AQUAFIL FLEXIFOUNTAIN 1500BF DRINKING FOUNTAIN AND BOTTLE REFILL STATION BY CIVIQ PTY. LTD.
- ③ 100mm BLUESTONE CONCRETE PAVING TO STANDARD CONCRETE PATH DETAILS SHEET C34



- ① RELOCATE ELECTRIC BBQ FROM EXISTING REDUNDANT SHELTER
- ② 1800mm ECO BOARDWALK BENCH WITH SPOTTED GUM FINISHED PLANKS BY GOSSI PARK AND STREET FURNITURE
- ③ 1800mm ECO ACCESS TABLE WITH SPOTTED GUM FINISHED PLANKS BY GOSSI PARK AND STREET FURNITURE
- ④ K672 LONGREACH SHELTER BY LANDMARK PRODUCTS
- ⑤ 100mm BLUESTONE CONCRETE PAVING TO STANDARD CONCRETE PATH DETAILS SHEET C34

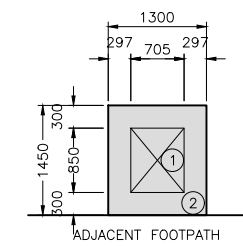
PICNIC SHELTER 2 (PS2) DETAIL
SCALE 1:50 @ A1, 1:100 @ A3



PARK SEAT DETAIL
SCALE 1:50 @ A1, 1:100 @ A3

- ① 1800mm ECO PARKWAY SEAT WITH SPOTTED GUM FINISHED PLANKS BY GOSSI PARK AND STREET FURNITURE
- ② 100mm BLUESTONE CONCRETE PAVING TO STANDARD CONCRETE PATH DETAILS SHEET C34

NOTE: LOCATION TO BE DETERMINED ON-SITE BY LANDSCAPE ARCHITECT



RUBBISH BIN (B1) DETAIL
SCALE 1:50 @ A1, 1:100 @ A3

- ① TAMORA 240L BIN ENCLOSURE WITH SPOTTED GUM FINISHED SLATS BY GOSSI PARK AND STREET FURNITURE
- ② 100mm BLUESTONE CONCRETE PAVING TO STANDARD CONCRETE PATH DETAILS SHEET C34

INSTALLATION NOTES:

- 1. ALL PARK FURNITURE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS
- 2. REFER TO MANUFACTURERS SPECIFICATIONS FOR FOOTING DETAILS FOR PICNIC SHELTERS

ISSUE	DESCRIPTION	DATE
B	RE-ISSUED FOR CONSTRUCTION	25/06/22
A	ISSUED FOR CONSTRUCTION	04/05/22

ISSUED FOR CONSTRUCTION

FOOTPRINT (NSW) PTY. LTD. AUTHORISE THE USE OF THIS DRAWING ONLY FOR THE PURPOSE DEMONSTRATED BY THE STATUS STAMP SHOWN ABOVE.

SCALES	SURVEYOR: SCC
AS SHOWN	DATUM: AHD
ORIGINAL	AZIMUTH: MGA
A1	DRAWN: AB
	DESIGNED: AB
	DESIGNED DATE: JAN '22
	CHECKED: AB

footprint
sustainable engineering
a. 15 meehan drive
kiama downs nsw 2533
p. 02 4237 6770
m. 0430 421 661

HYAMS BEACH MASTERPLAN (STAGE 1)
CIVIL ENGINEERING DRAWINGS
LANDSCAPE FURNITURE DETAILS

DRAWING NO. 2128-LD02
ISSUE. B
SHEET 38 OF 38

City Council
SCC PLAN REFERENCE
5518.72