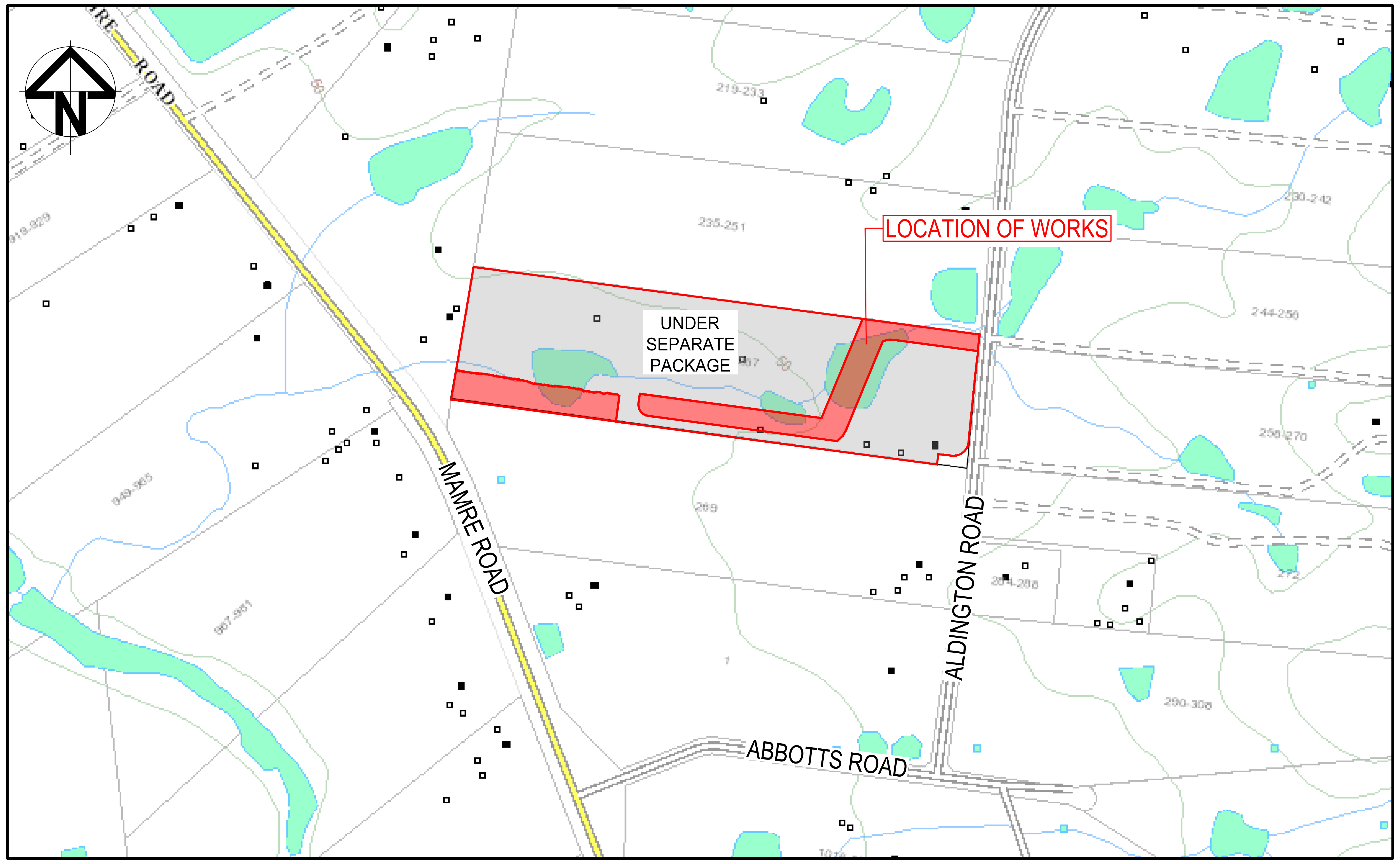
253-267 ALDINGTON ROAD, KEMPS CREEK

TRUNK DRAINAGE PACKAGE - CONSTRUCTION

STATE SIGNIFICANT DEVELOPMENT APPLICATION

SSD-23480429

THESE DRAWINGS MUST READ IN CONJUNCTION WITH ITT, THE RELEVANT SYDNEY WATER, COUNCIL CONSTRUCTION SPECIFICATIONS, AUSTRALIAN STANDARDS AND AUTHORITY GUIDELINES.



LOCALITY PLAN

NOT TO SCALE

NOTE:

1. THIS PACKAGE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING PACKAGES.
   - 1000 SERIES - BULK EARTHWORKS & INFRASTRUCTURE
   - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client

ICON
OCEANIA

Scales	N.T.S.	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
COVER SHEET

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2000

Issue
D

DRAWING LIST

DRAWING No.	DRAWING TITLE
GENERAL	
21-860-C2000	COVER SHEET
21-860-C2001	DRAWING LIST AND LEGENDS
21-860-C2002	GENERAL NOTES
21-860-C2003	GENERAL ARRANGEMENT PLAN
SITE SECTIONS	
21-860-C2010	STORMWATER TRUNK DRAINAGE CHANNEL TYPICAL SECTIONS SHEET 1
21-860-C2011	STORMWATER TRUNK DRAINAGE CHANNEL TYPICAL SECTIONS SHEET 2
21-860-C2015	STORMWATER TRUNK DRAINAGE CHANNEL SECTIONS SHEET 1
21-860-C2016	STORMWATER TRUNK DRAINAGE CHANNEL SECTIONS SHEET 2
21-860-C2017	STORMWATER TRUNK DRAINAGE CHANNEL SECTIONS SHEET 3
21-860-C2018	STORMWATER TRUNK DRAINAGE CHANNEL SECTIONS SHEET 4
21-860-C2019	STORMWATER TRUNK DRAINAGE CHANNEL SECTIONS SHEET 5
21-860-C2020	STORMWATER TRUNK DRAINAGE CHANNEL SECTIONS SHEET 6
21-860-C2021	STORMWATER TRUNK DRAINAGE CHANNEL SECTIONS SHEET 7
21-860-C2022	STORMWATER TRUNK DRAINAGE CHANNEL SECTIONS SHEET 8
STORMWATER TRUNK DRAINAGE CHANNEL PLAN	
21-860-C2030	STORMWATER TRUNK DRAINAGE CHANNEL PLAN SHEET 1
21-860-C2031	STORMWATER TRUNK DRAINAGE CHANNEL PLAN SHEET 2
21-860-C2032	STORMWATER TRUNK DRAINAGE CHANNEL PLAN SHEET 3
21-860-C2033	STORMWATER TRUNK DRAINAGE CHANNEL PLAN SHEET 4
21-860-C2034	STORMWATER TRUNK DRAINAGE CHANNEL PLAN SHEET 5
STORMWATER TRUNK DRAINAGE CHANNEL LONGSECTION	
21-860-C2040	STORMWATER TRUNK DRAINAGE CHANNEL LONGITUDINAL SECTION SHEET 1
21-860-C2041	STORMWATER TRUNK DRAINAGE CHANNEL LONGITUDINAL SECTION SHEET 2
21-860-C2042	STORMWATER TRUNK DRAINAGE CHANNEL SETOUT TABLE
SITEWORKS AND STORMWATER DETAILS	
21-860-C2050	SITEWORKS DETAILS SHEET
21-860-C2055	STORMWATER DETAILS SHEET SHEET 1
21-860-C2056	STORMWATER DETAILS SHEET SHEET 2
21-860-C2057	STORMWATER DETAILS SHEET SHEET 3
FENCING PLANS	
21-860-C2060	FENCING PLAN
21-860-C2061	FENCING DETAILS PLAN SHEET 1
21-860-C2062	FENCING DETAILS PLAN SHEET 2
21-860-C2063	FENCING DETAILS PLAN SHEET 3
RETAINING WALLS	
21-860-C2070	RETAINING WALL GENERAL ARRANGEMENT PLAN
21-860-C2071	RETAINING WALL RW01 PLAN AND LONGITUDINAL SECTION
21-860-C2072	RETAINING WALL RW02 PLAN AND LONGITUDINAL SECTION

LEGEND

—-·-·—-·-·—	EXISTING BOUNDARY
—-·-·—-·-·—	EXISTING BOUNDARY TO BE REMOVED
— — — — — —	EXISTING EASEMENT
—— — — ——	PROPOSED BOUNDARY
RW ▨	PROPOSED RETAINING WALL
— · · 48.00 · · —	PROPOSED CONTOUR
⊥	PROPOSED STORMWATER PIPE WITH HEADWALL
A-1	PROPOSED STORMWATER PIT LABEL
Ø375 →	PROPOSED STORMWATER PIPE, DIRECTION AND INDICATIVE SIZE
◺	PROPOSED BATTER SLOPE
▨	LOW FLOW CHANNEL REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	LANDSCAPED BATTER REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	SCOUR PROTECTION REFER SCOUR PROTECTION SCHEDULE ON DWG C2055 FOR DETAILS
▨	SCOUR PROTECTION - HIGH SHEAR AREA REFER TO UPSIZED SCOUR PROTECTION SIZE ON SITEWORKS PLAN FOR SELECT AREAS. SCHEDULE ON DWG C2055 FOR DETAILS
▨	MAINTENANCE TRACK 200mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL
▨	CONCRETE RAMP TOOLED GROOVES 175mm THICKNESS N32 CONCRETE (1 LAYER SL82 MESH MIN. 50 COVER) ON 150mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL 20mm (W) x 10mm (D) TOOLED GROOVES AT 100mm CENTRES AND 20°
- - - SJ - - -	SAWN JOINT. REFER DETAILS ON DWG C2050
DEJ	DOWELLED EXPANSION JOINT. REFER DETAILS ON DWG C2050
TE	THICKENED EDGE. REFER DETAILS ON DWG C2050
🟦	WORKS NOT PART THIS PACKAGE

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DRAWING LIST
AND LEGENDS

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Project - Drawing No.
21-860-C2001

Issue
D

SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT&L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS, BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO TfNSW SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TfNSW FORM 3051 (UNBOUND), TfNSW FORM 3052 (BOUND) 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 OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TfNSW FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 98% 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.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH TfNSW FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE SUPERINTENDENT.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM THE SUPERINTENDENT. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. 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.
13. ALL WORKS CARRIED OUT ADJACENT TO AND WITHIN TRANSGRIDS' EASEMENT TO COMPLY WITH TRANSGRIDS' GUIDELINES AND REQUIREMENTS.
14. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCILS' ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY BEVERIDGE WILLIAMS SURVEYORS, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT&L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA CONTACT AT&L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

NOTES
1. THE BOUNDARIES HAVE APP0ROXIMATELY BEEN SURVEYED IN ACCORDANCE WITH CLAUSE 9 OF THE SURVEYING & SPATIAL INFORMATION REGULATION 2017. SURVEY CONTROL WILL BE PROVIDED BY THE PRINCIPAL PRIOR TO WORKS COMMENCING ON SITE
2. ALL AREAS AND DIMENSIONS HAVE BEEN COMPILED FROM PLANS MADE AVAILABLE BY NSW LAND REGISTRY SERVICES AND ARE SUBJECT TO FINAL SURVEY
3. ORIGIN OF COORDINATES HAS BEEN DERIVED USING GPS (GNSS) SURVEY FROM PM33561
4. ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM TBC.
   IN MAMRE ROAD USING GPS (GNSS) SURVEY METHODS.
5. CONTOUR INTERVAL 0.5m
6. CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
7. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITIES INFORMATION AND HAVE NOT BEEN SURVEYED. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE
8. 8/.4/7 DENOTES TREE SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX. HEIGHT OF 7m
9. SHOWS APPROXIMATE POSITION OF ROAD LINEMARKING AND IS INDICATIVE ONLY
10. BEARINGS SHOWN ARE MGA (MAP GRID OF AUSTRALIA) ADD APPROX. 1°00' FOR TRUE NORTH

DEWATERING

1. IF REQUIRED ANY DEWATERING WORKS TO BE AS PER THE DEWATERING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).

EXISTING UNDERGROUND SERVICES

1. 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.
2. AT&L 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.
3. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
4. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
5. 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.
6. PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. CONCRETE QUALITY
   ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 FCC MP AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGOG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

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

3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT&L.
4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH TfNSW SPECIFICATION R83.
7. REINFORCEMENT SYMBOLS:
   N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
   R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
   SQL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

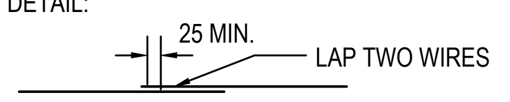
NUMBER OF BARS IN GROUP ┐ ┌ BAR GRADE AND TYPE

17 N 20 250

NOMINAL BAR SIZE IN mm ┘ └ SPACING IN mm

THE FIGURE FOLLOWING THE FABRIC SYMBOL SQL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



EARTHWORKS NOTES

1. WHERE EARTHWORKS ARE TO BE CONSTRUCTED ON OR AGAINST ANY EMBANKMENTS OR AGAINST ANY SLOPES AND THE EMBANKMENT/SLOPE IS STEEPER THAN 10(H):1(V) IN ANY DIRECTION, THE CONTRACTOR SHALL CUT TERRACES INTO THE SLOPE TO A MINIMUM DEPTH OF 300mm, EXCEPT WHERE SLOPES ARE STEEPER THAN 4(H):1(V) WHERE MINIMUM DEPTH SHALL BE 600mm TO ALLOW ADEQUATE KEY AND COMPACTION OF MATERIAL.
2. THE CONTRACTOR SHALL PRODUCE A MATERIAL TRACKING REGISTER FOR ALL IMPORT AND EXPORT MATERIAL INCLUDING DEMOLITION WASTE. FOR INSTANCES WHERE CONTAMINATED MATERIAL IS EXPORTED FROM THE SITE THE CONTRACTOR SHALL ENSURE A CHAIN OF CUSTODY REPORT AND CERTIFICATES ARE PROVIDED FOR THE CONTAMINATED MATERIAL. TIP DOCKETS TO BE MADE AVAILABLE UPON REQUEST. BULKING FACTOR TO BE PROVEN WITH GEOTECHNICAL TESTING.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA (AS PER PENRITH CITY COUNCIL DESIGN GUIDELINES FOR ENGINEERING WORKS FOR SUBDIVISIONS AND DEVELOPMENTS)
   (A) AVERAGE RECURRENCE INTERVAL:
   'MAJOR' SYSTEM (OVERLAND FLOW): 1% AEP
   'MINOR' SYSTEM (PIT AND PIPE NETWORK): 5% AEP
   (B) DESIGN RAINFALL INTENSITIES FROM BOM DESIGN RAINFALL DATA SYSTEM (2016) (LAT. -33.845, LON. 150.793).
   INTENSITIES FOR 5 MINUTE DURATION EVENT:
   1% AEP: 244mm/hr
   5% AEP: 182mm/hr
   (C) HYDROLOGICAL MODEL: ILSAX (FOR URBAN CATCHMENTS) AND RAFTS (FOR UNDEVELOPED / RURAL CATCHMENTS)
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. ALL ROAD CROSSINGS TO BE CLASS '4' U.N.O..
3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.
5. PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES AND ON APPROVED ADJOINING NEIGHBOURS WORK ZONES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
7. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
8. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
9. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL OF SUPERINTENDENT.
10. GRATES AND COVERS SHALL CONFORM TO AS 3996 AND PENRITH CITY COUNCIL CONSTRUCTION SPECIFICATIONS.
11. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
12. 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.
13. ALL STORMWATER PITS ARE TO BE CAST IN-SITU IN ACCORDANCE WITH THE STORMWATER DETAILS AND SPECIFICATIONS UNLESS APPROVED BY THE SUPERINTENDENT / PENRITH CITY COUNCIL. IF APPROVED AND IN ADDITION TO THE SPECIFICATION;

A. ALL PRE-CAST PITS ARE TO BE STRUCTURALLY CERTIFIED TO MEET RELEVANT AUSTRALIAN STANDARDS (AS3600, AS3996).
B. ALL PRECAST PITS TO BE FOUNDED ON CONCRETE BLINDING LAYER WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100kPa UP TO 3.0m DEPTH TO INVERT AND 150kPa FROM 3.0m TO 6.0m DEPTH TO INVERT (MINIMUM 100mm THICK 25MPa OR DEEPER TO ENSURE MINIMUM SPECIFIED BEARING CAPACITY IS ACHIEVED).
C. PRE-CAST STORMWATER PITS ARE TO BE CUSTOM MADE WITH OPENINGS WITHIN +50mm OD OF PIPE, HEIGHTS AND PIPE PENETRATIONS DURING MANUFACTURE. ANY ADDITIONAL PENETRATIONS SHALL BE CORE DRILLED AND STEEL BLOWN OUT TO MANUFACTURERS REQUIREMENTS IF REQUIRED.
D. DEMOLITION SAWS ARE NOT TO BE USED IN ANY CIRCUMSTANCES.
E. SINGLE UNITS PREFERRED BUT IF REQUIRED MINIMUM RISER DEPTH 600mm PIT INSTALLATION AND JOINTING PIPES TO PITS SHALL BE UNDERTAKEN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
F. ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WILL BE REPAIRED AND STRUCTURALLY CERTIFIED TO THE SATISFACTION OF THE SUPERINTENDENT / PENRITH CITY COUNCIL.
G. ALL PRE-CAST PIT PENETRATIONS SHALL BE CUT SO THAT IT IS FLUSH WITH THE INTERNAL WALL.
H. PIPE JOINTING/SEALING OF PIPE PENETRATION TO BE WITH A NON-SHRINK MORTAR MIX e.g. LANKO 702 DURABED OR SIMILAR APPROVED.
I. SUBSOIL DRAINAGE FLUSHING AND/OR INTERMEDIATE RISERS TO BE INSTALLED AT 40m CENTRES AND AT ALL UPSTREAM ENDPOINTS
J. ANY ADDITIONAL PENETRATIONS TO ANY STRUCTURAL CONCRETE (e.g. STORMWATER PITS, CULVERTS, HEADWALLS ETC.) SHALL BE CORE DRILLED AND STEEL BLOWN OUT TO MANUFACTURERS REQUIREMENTS, IF REQUIRED.

KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.
2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED DRY DENSITY (AS 1289 5.2.1).
3. EXPANSION JOINTS (E.J.) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. WEAKENED PLANE JOINTS TO BE MIN. 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5. BROOM FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
6. IN THE REPLACEMENT OF KERB AND GUTTER :-
   IF REQUIRED EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O. FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE 10000 SERIES OF DRAWINGS
2. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING AT&L AS THE SUITABLY QUALIFIED EROSION AND SEDIMENT CONSULTANT FOR THE DURATION OF THE CONTRACT TO DESIGN AND DOCUMENT ADDITIONAL STAGING EROSION AND SEDIMENT CONTROLS. SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR REQUIRED TO SUIT THE CONSTRUCTION STAGING
3. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
   b. LOCAL AUTHORITY REQUIREMENTS
   c. EPA REQUIREMENTS
4. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
5 .WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
6. 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

7. WHERE PRACTICAL THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END WORKS SHOULD BE UNDERTAKEN / INSTALLED AS DIRECTED BY THE CONTRACTORS EROSION AND SEDIMENT CONTROL CONSULTANT.
8 LARGE UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
9. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
10. 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 DOWNSLOPE WATERS, e.g. THROUGH INSTALLATION OF SEDIMENT FENCING.
11. 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.
12. 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.
13. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

14. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

STAGING

15. SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, THROUGHOUT THE FULL TERM OF THE CONTRACT, WHERE SHOWN ON AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENRITH CITY COUNCILS ENGINEERS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, DOCUMENTING, INSTALLING AND MAINTAINING THE SEDIMENT AND EROSION CONTROLS REQUIRED TO SUIT THE SELECTED CONSTRUCTION STAGING. THIS IS TO BE DOCUMENTED IN THE FORM OF A SOIL AND WATER MANAGEMENT PLAN TO BE DEVELOPED BY THE CONTRACTOR AND THEIR EROSION AND SEDIMENT CONSULTANT AND PROVIDED TO THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCEMENT.
16. SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT, PENRITH CITY COUNCILS SPECIFICATIONS AND THE OFFICE OF ENVIRONMENT AND HERITAGES 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION, LANDCOM (4TH EDITION) MARCH 2004 (REPRINTED 2006) (THE "BLUE BOOK") VOLUME 1 AND VOLUME 2 AND THE CEMP.

EMBANKMENT CONSTRUCTION SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SHOW ANY FAILURE THE CONTRACTOR IS TO ENGAGE A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER TO DETERMINE THE CAUSE AND METHOD OF RECTIFICATION
4. COMPACT CLAY STABILISED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILISED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILISE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILISE LANDSCAPE AS REQUIRED BY CLIMATIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL. LANDSCAPING TO BE MAINTAINED FOR 24 MONTHS TO ENSURE ESTABLISHMENT.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION AND CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

DECOMMISSIONING / DEMOLITION

1. EXISTING INTERNALS FENCING, CATTLE YARDS, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.
2. DAM DECOMMISSIONING TO BE COMPLETED AS PER THE DAM DECOMMISSIONING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).
3. ALL EXISTING SERVICES (INCLUDING SEPTIC TANKS) SHALL BE REMOVED FROM SITE.
4. ALL UNDERGROUND CABLES AND PIPES SHALL BE GRUBBED OUT AND CAPPED AT THE BOUNDARY OF THE SITE.
5. ALL OVERHEAD SERVICES SHALL BE REMOVED FROM WITHIN THE SITE BOUNDARY AND MADE SAFE AT THE TERMINATION LOCATION. ANY POLES SHALL BE REMOVED FROM THE SITE.
6. ALL EXISTING SERVICES TO BE CONSIDERED AS LIVE UNTIL THE CONTRACTOR HAS TESTED AND CONFIRMED TO THE SUPERINTENDENT THAT THE SERVICES ARE DEAD / REDUNDANT.

DESIGN & CERTIFICATION REQUIREMENTS

1. THE CONTRACTOR IS TO PROVIDE STRUCTURAL CERTIFICATION ON ALL STRUCTURAL ELEMENTS INCLUDING DESIGN CERTIFICATION AND FINAL CONSTRUCTION CERTIFICATION.
   THIS INCLUDES:
   * ALL RETAINING WALLS
   * CULVERTS INCLUDING BASE SLABS
   * HEADWALLS
   * STORMWATER STRUCTURES INCLUDING STORMWATER PITS
   ALL STRUCTURAL CERTIFICATES MUST BE PROVIDED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER.

CONSTRUCTION SPECIFICATION

1. THESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH PENRITH CITY COUNCILS' LATEST REVISION OF THE 'ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS AND SYDNEY WATER TECHNICAL SPECIFICATIONS - CIVIL'
2. WHERE THERE IS A CONFLICT THE FOLLOWING IS TO OCCUR
   2.1. NOTIFY THE DESIGN ENGINEER AND/OR SUPERINTENDENT
   2.2. THE PENRITH CITY COUNCILS' SPECIFICATION TAKES PRECEDENCE
3. REFER PELLS SULLIVAN MEYNINK REPORT REV 6 (DATED) FOR BULK EARTHWORKS SPECIFICATIONS.
4. REFER LANDSCAPE ARCHITECT DESIGN (CURRENT REVISION) FOR LANDSCAPE SPECIFICATION.

BEFORE YOU DIG
www.byda.com.au

CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales

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Client
ICON
OCEANIA

GDA2020

Scales	N.T.S.	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
GENERAL NOTES

Civil Engineers and Project Managers
at&l
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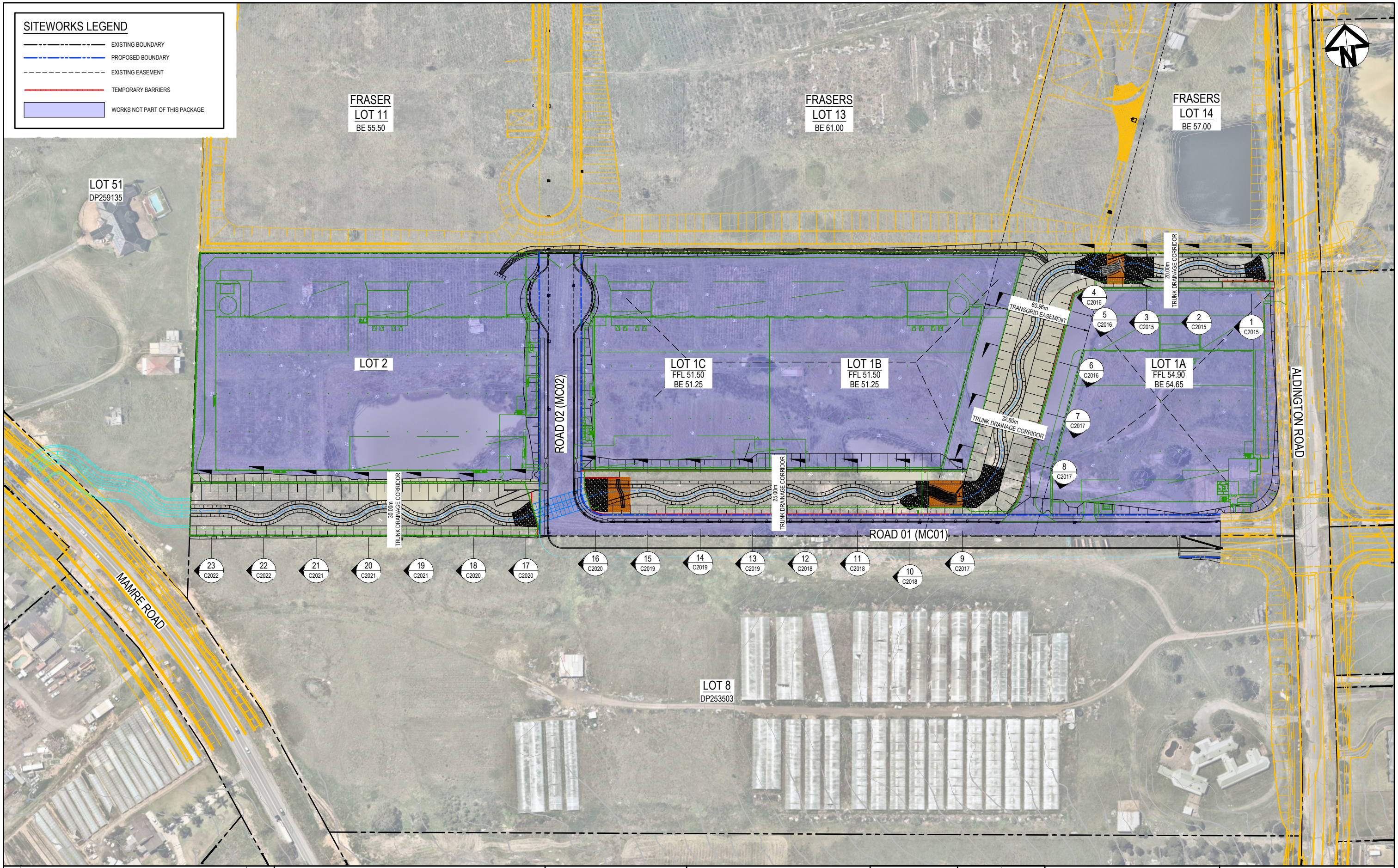
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2002
Issue
D

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\2000_TRUNK DRAINAGE\21-860-C2002.dwg



Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	02-09-25
A	ISSUED FOR FOR APPROVAL	28-07-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client

ICON
OCEANIA

Scales	N.T.S.	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title

GENERAL ARRANGEMENT
PLAN

Civil Engineers and Project Managers

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C2003

Issue
B

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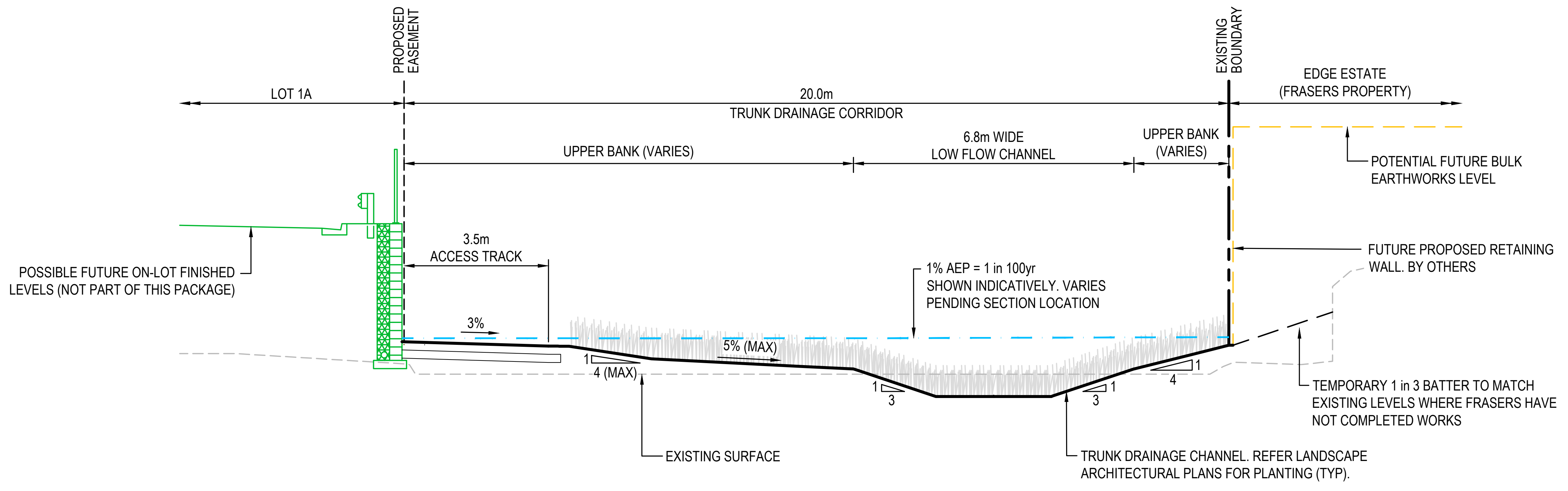
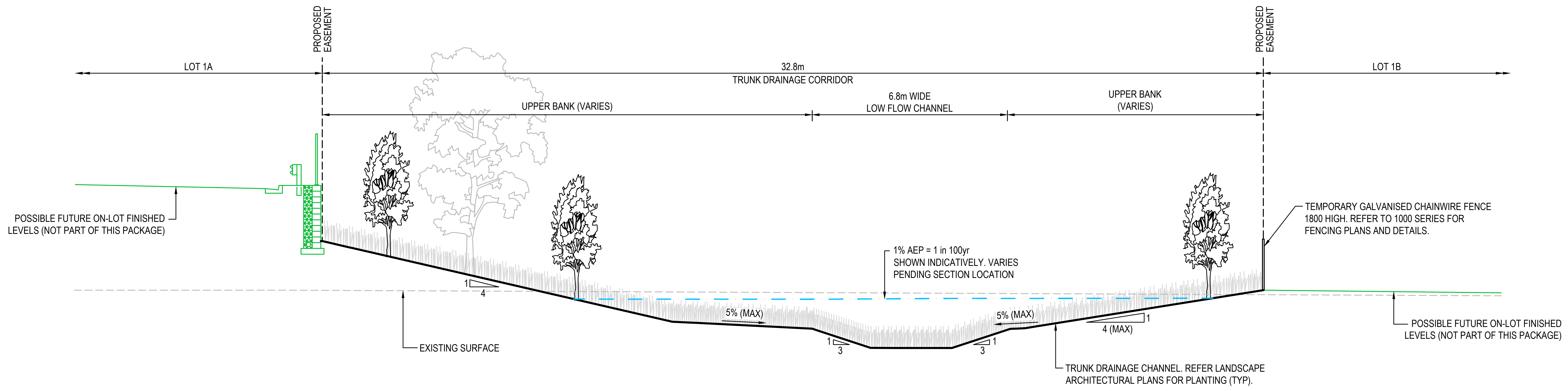


20.00m WIDE TRUNK DRAINAGE CORRIDOR TYPICAL SECTION

SCALE 1:100



32.8m WIDE TRUNK DRAINAGE CORRIDOR TYPICAL SECTION

SCALE 1:100

- NOTE:

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
2. LINEWORK SHOWN IN GREEN DENOTES PROPOSED WORKS UNDER SEPARATE PACKAGE.
3. THIS PACKAGE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING PACKAGES.
   - 1000 SERIES - BULK EARTHWORKS & INFRASTRUCTURE
   - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

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OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER TRUNK
DRAINAGE CHANNEL
TYPICAL SECTIONS
SHEET 1

Civil Engineers and Project Managers

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2010

Issue
B

100mm on Original

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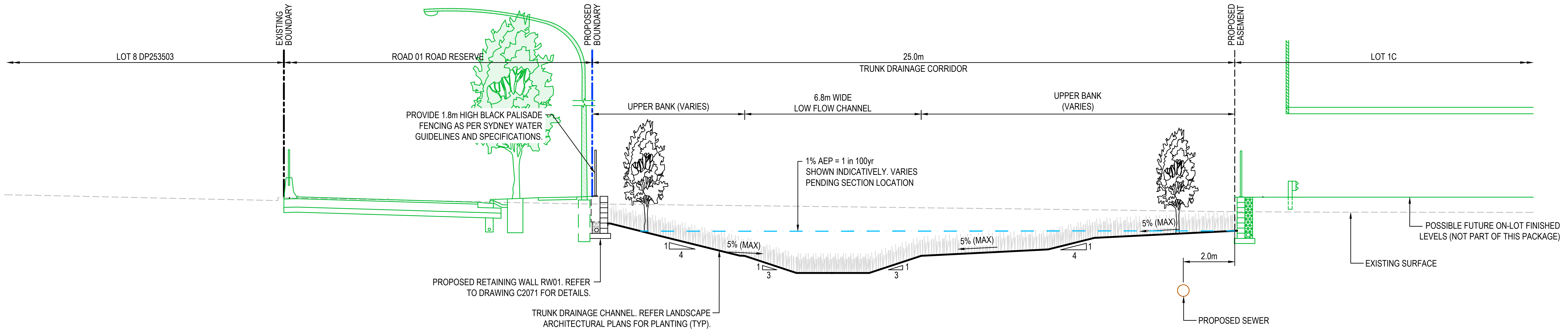
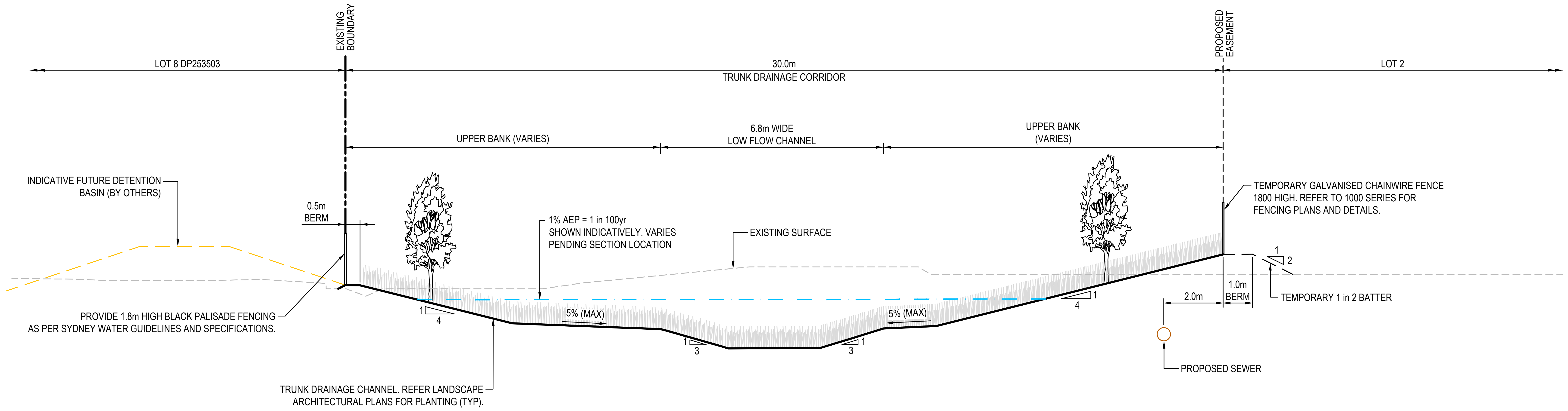


25.0m WIDE TRUNK DRAINAGE CORRIDOR TYPICAL SECTION

SCALE 1:100



30.0m WIDE TRUNK DRAINAGE CORRIDOR TYPICAL SECTION

SCALE 1:100

● NOTE:

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
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    - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

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Client

ICON
OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
TYPICAL SECTIONS
SHEET 2

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2011

Issue
B

100mm on Original

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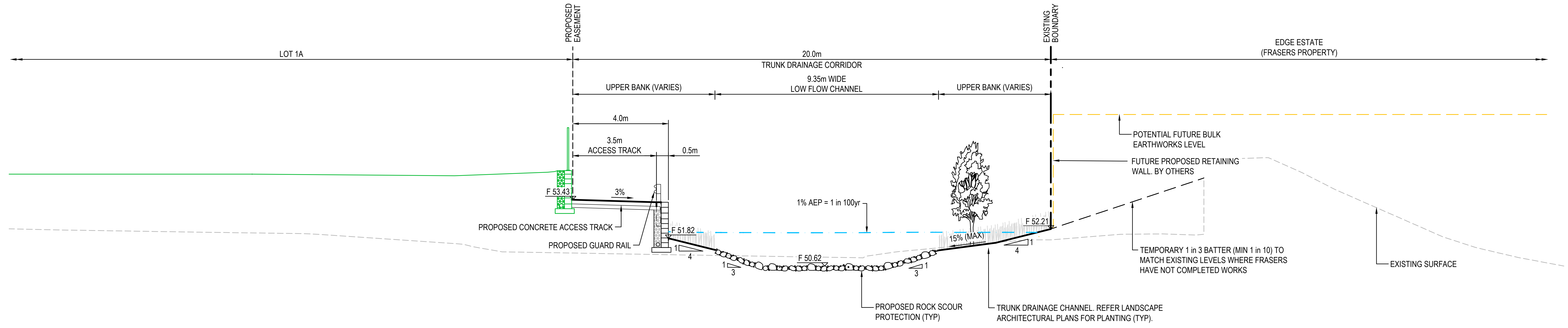
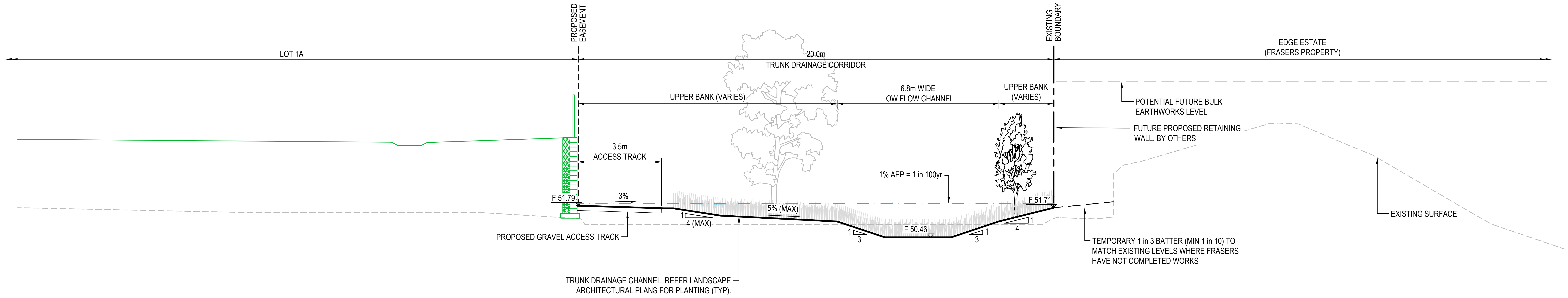


SECTION 1
1 : 100
C2030



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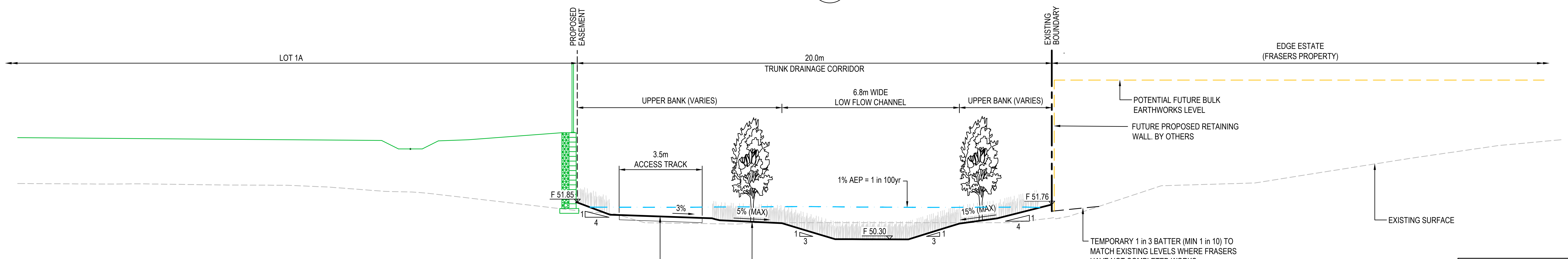
C2030



SECTION 3
1 : 100
C2030

- NOTE:

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
2. LINEWORK SHOWN IN GREEN DENOTES PROPOSED WORKS UNDER SEPARATE PACKAGE.
3. THIS PACKAGE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING PACKAGES.
   - 1000 SERIES - BULK EARTHWORKS & INFRASTRUCTURE
   - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client
ICON OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
SECTIONS
SHEET 1

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2015

Issue
B

100mm on Original

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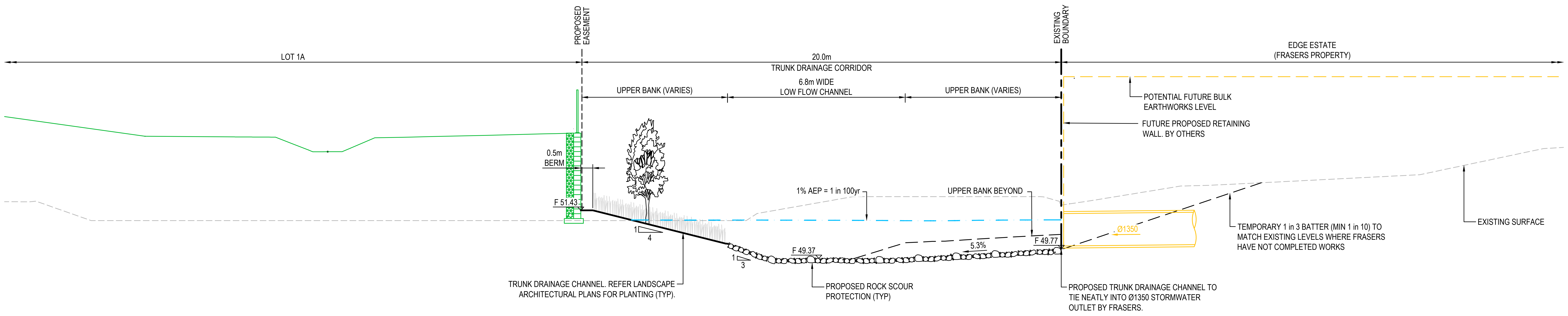

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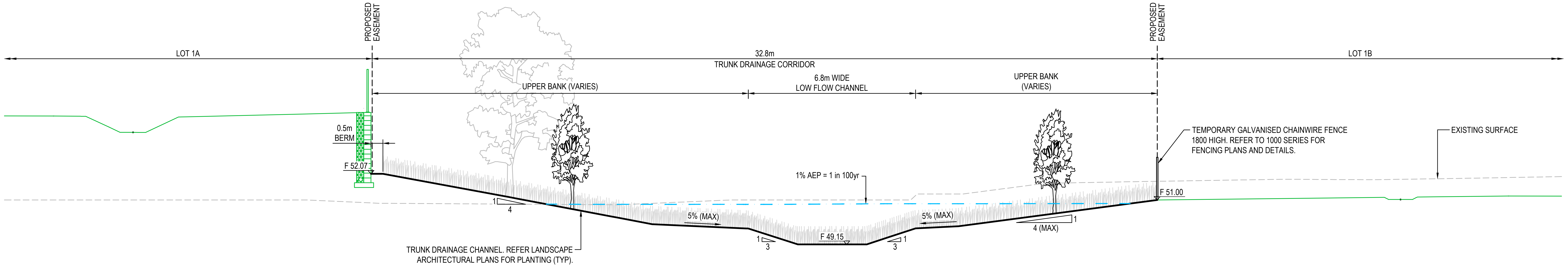

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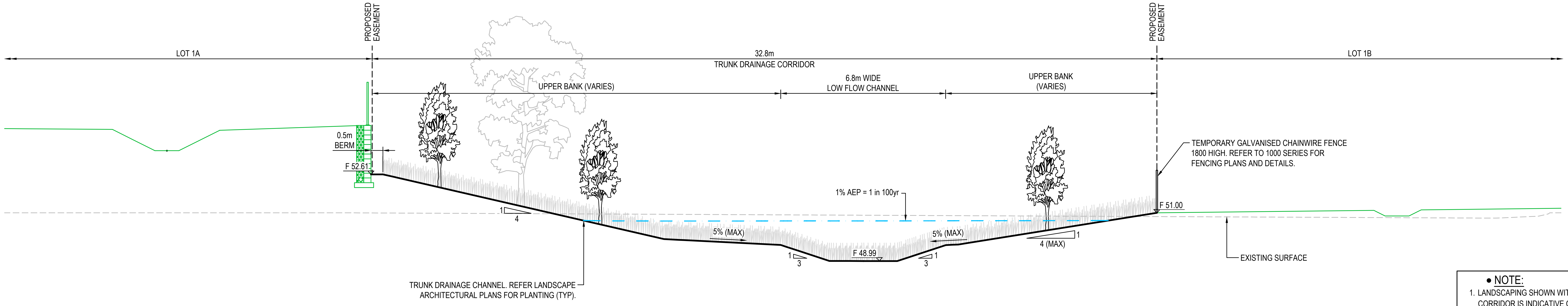

SECTION 6
1 : 100
C2030

- NOTE:

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
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Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales

1 : 100 @ A1   1 : 200 @ A3

Client
ICON
OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
SECTIONS
SHEET 2

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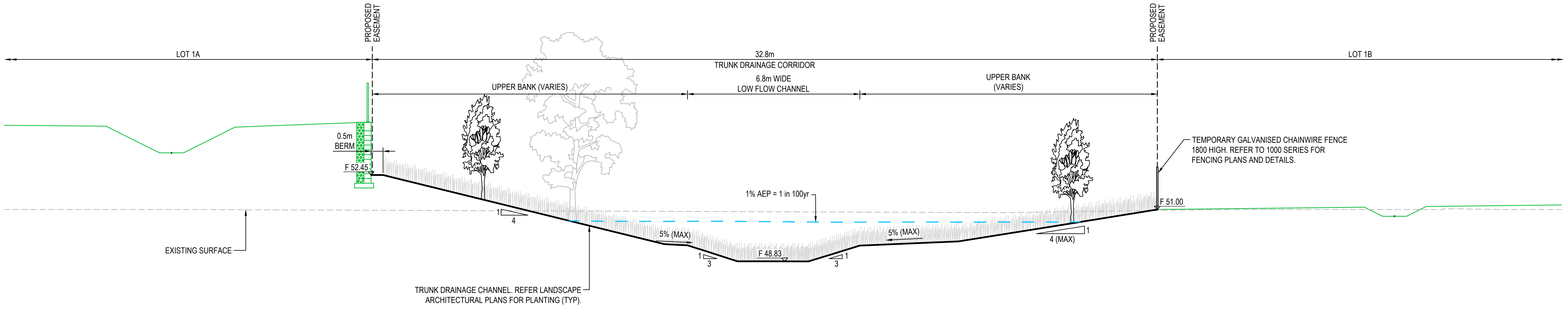
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2016
Issue
B

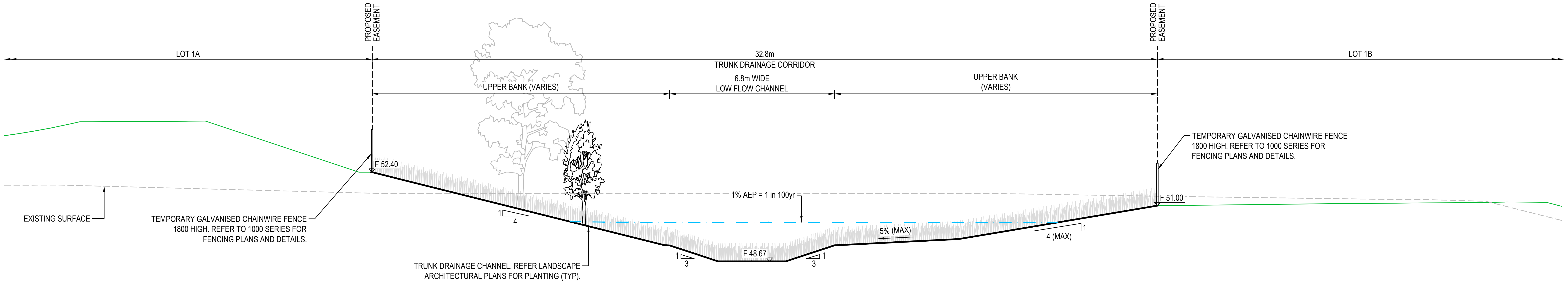
100mm on Original



SECTION 7

1 : 100

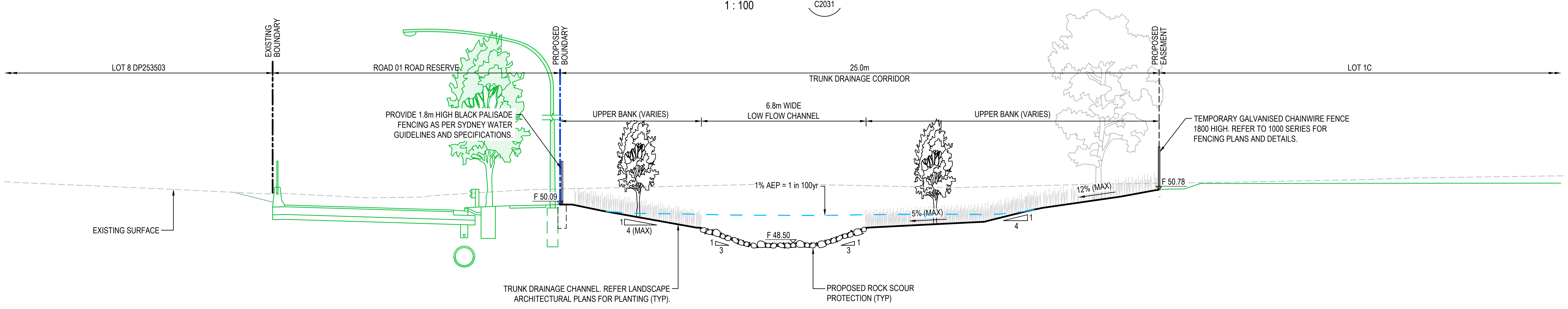
C2031



SECTION 8

1 : 100

C2031



SECTION 9

1 : 100

C2031

- NOTE:

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
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   - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

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Client

ICON
OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER TRUNK
DRAINAGE CHANNEL
SECTIONS
SHEET 3

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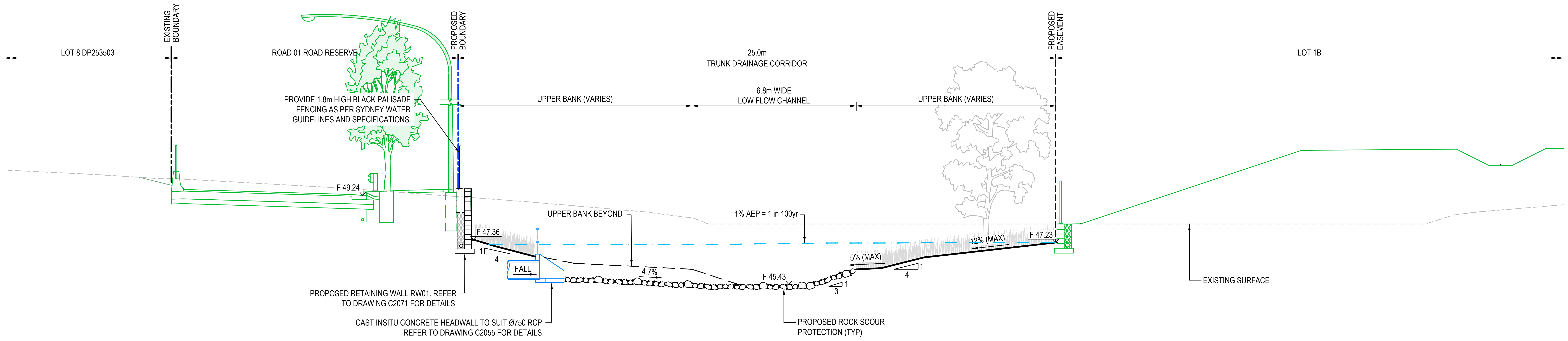
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C2017

Issue
B

100mm on Original



SECTION 10
C2031
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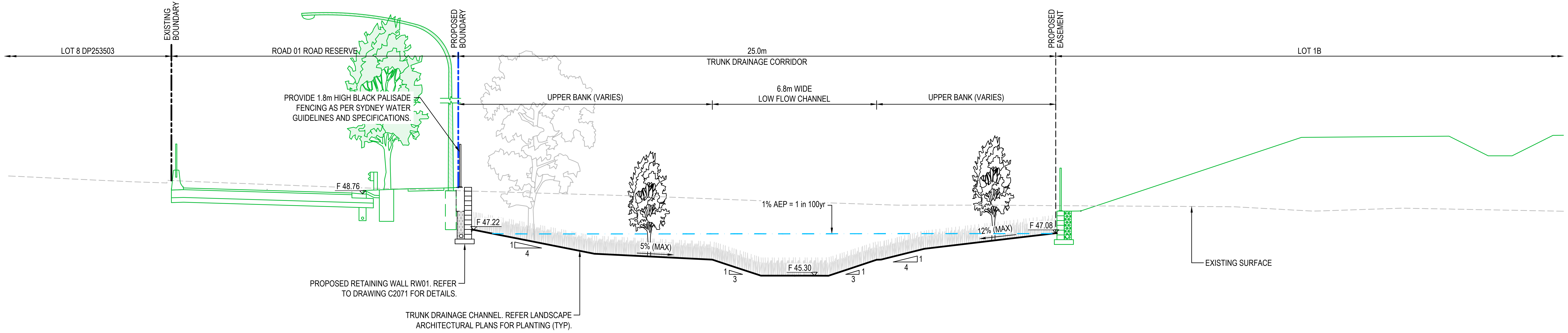

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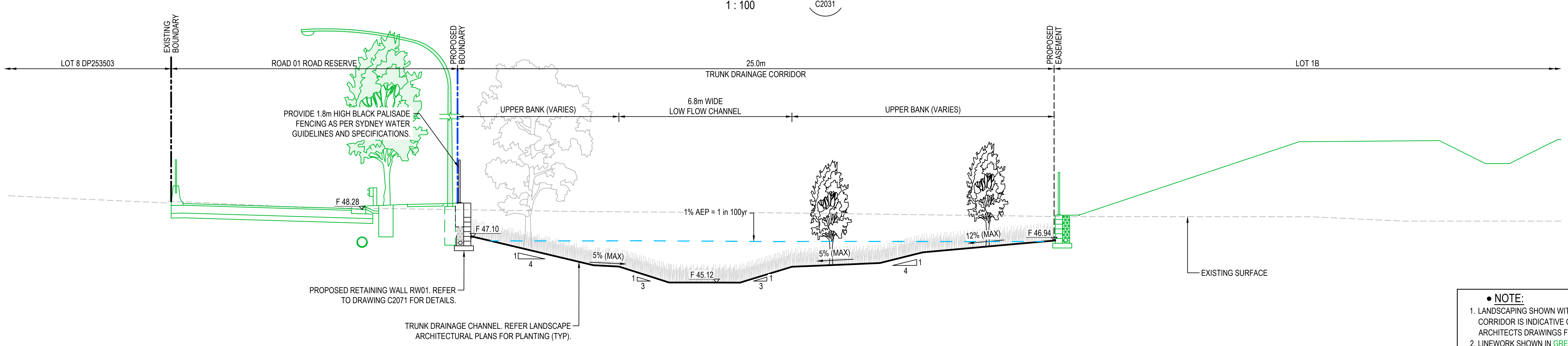

SECTION 12
C2032
1 : 100

- NOTE:

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
2. LINEWORK SHOWN IN GREEN DENOTES PROPOSED WORKS UNDER SEPARATE PACKAGE.
3. THIS PACKAGE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING PACKAGES.
   - 1000 SERIES - BULK EARTHWORKS & INFRASTRUCTURE
   - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

ICON
OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
SECTIONS
SHEET 4

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
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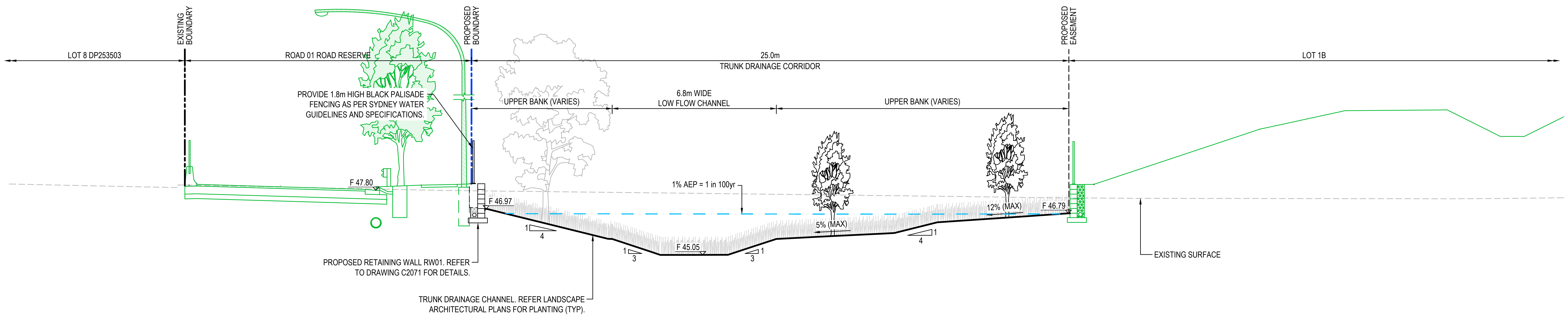
www.atl.net.au
info@atl.net.au

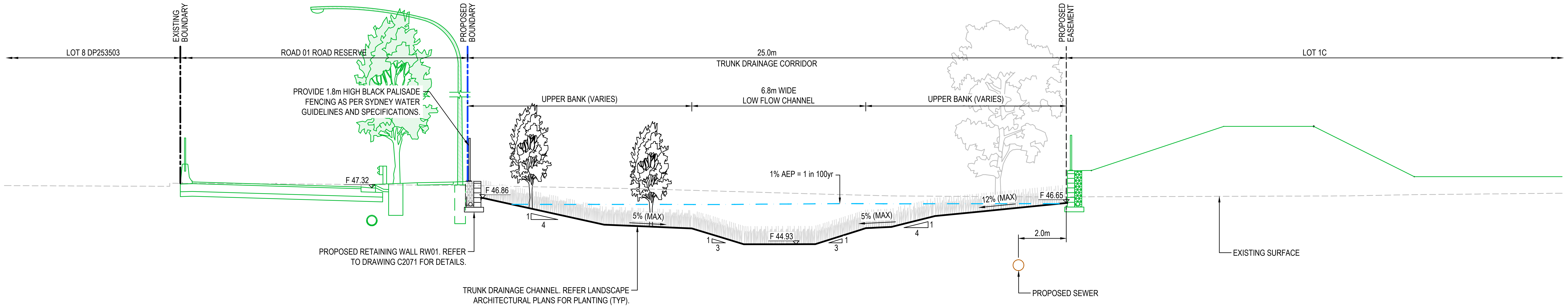
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2018

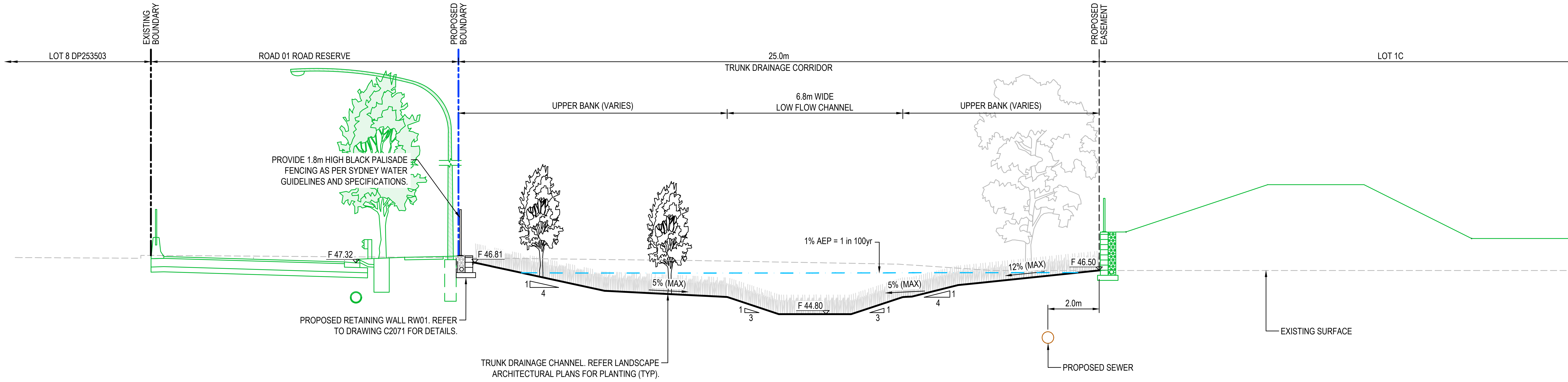
Issue
B



SECTION 13
1 : 100
C2032



SECTION 14
1 : 100
C2032



SECTION 15
1 : 100
C2032

- NOTE:

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
2. LINEWORK SHOWN IN GREEN DENOTES PROPOSED WORKS UNDER SEPARATE PACKAGE.
3. THIS PACKAGE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING PACKAGES.
   - 1000 SERIES - BULK EARTHWORKS & INFRASTRUCTURE
   - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client
ICON
OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
SECTIONS
SHEET 5

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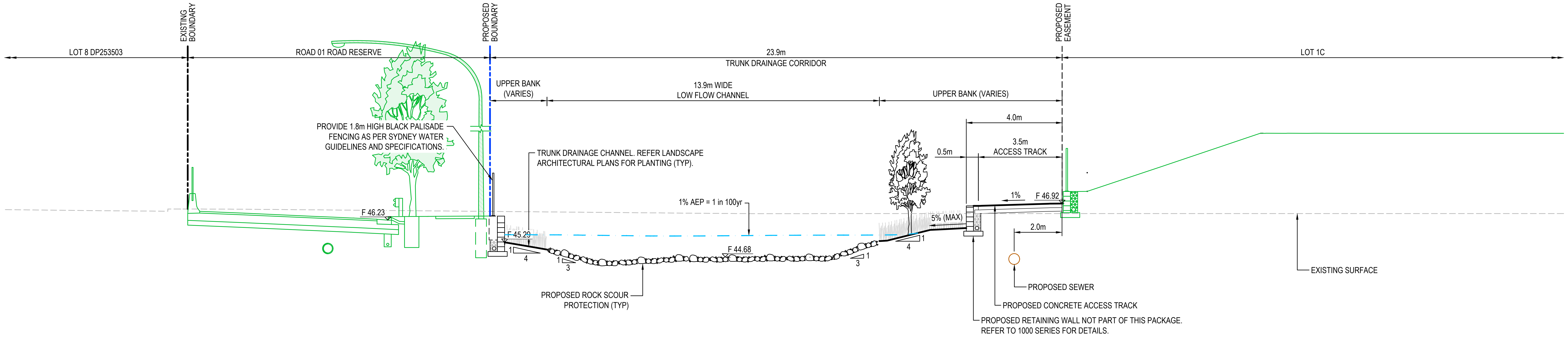
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

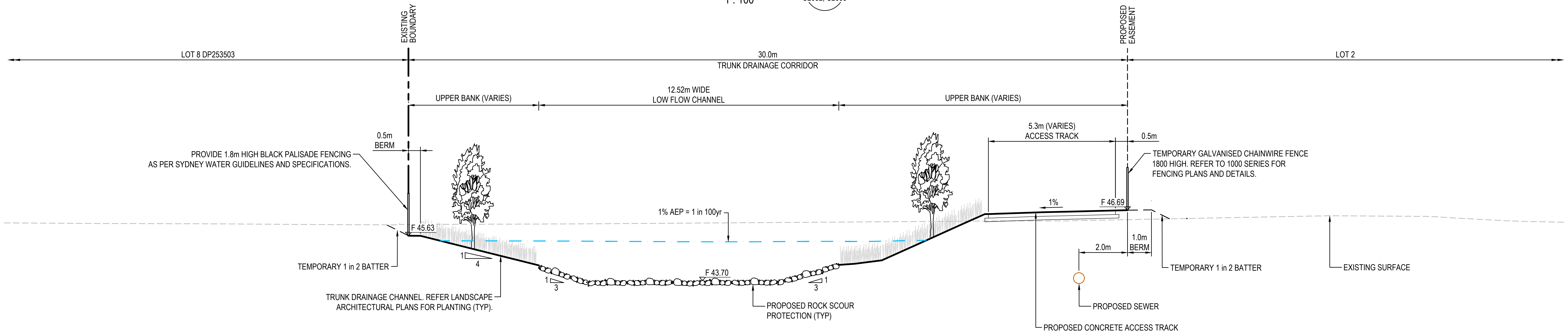
Project - Drawing No.
21-860-C2019
Issue
B

100mm on Original

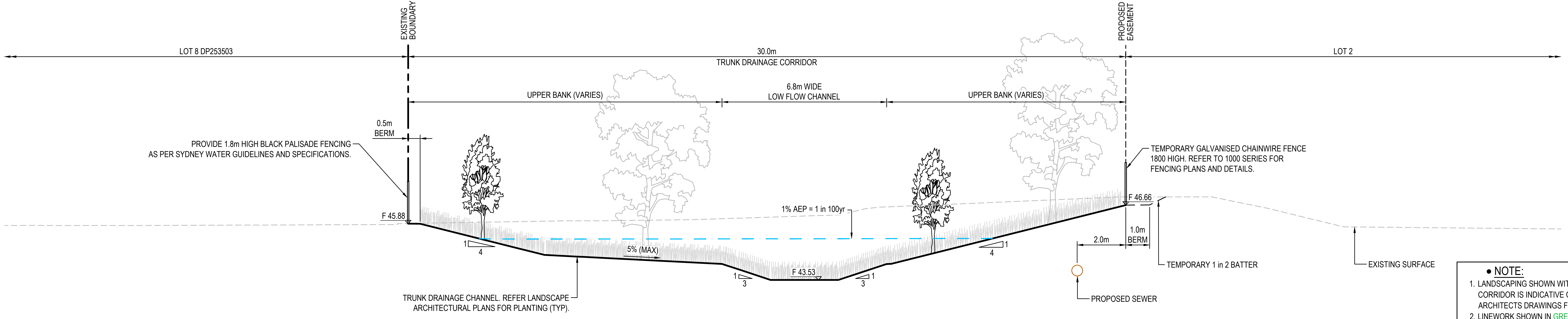
F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\2000_TRUNK DRAINAGE\21-860-C2019.dwg



SECTION 16
1 : 100
C2032, C2033



SECTION 17
1 : 100
C2032, C2033



SECTION 18
1 : 100
C2033

- **NOTE:**

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
2. LINEWORK SHOWN IN GREEN DENOTES PROPOSED WORKS UNDER SEPARATE PACKAGE.
3. THIS PACKAGE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING PACKAGES.
   - 1000 SERIES - BULK EARTHWORKS & INFRASTRUCTURE
   - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales

1 : 100 @ A1   1 : 200 @ A3

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Client

ICON
OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
SECTIONS
SHEET 6

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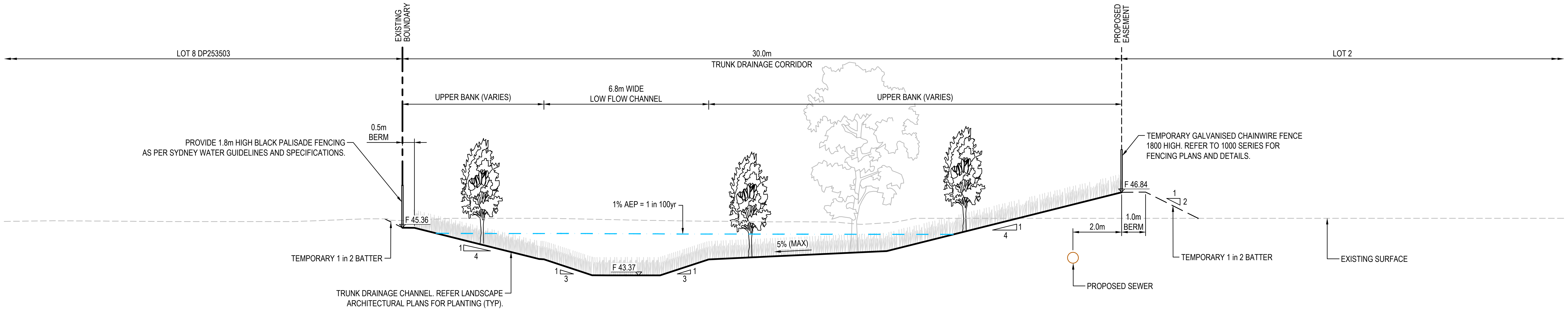
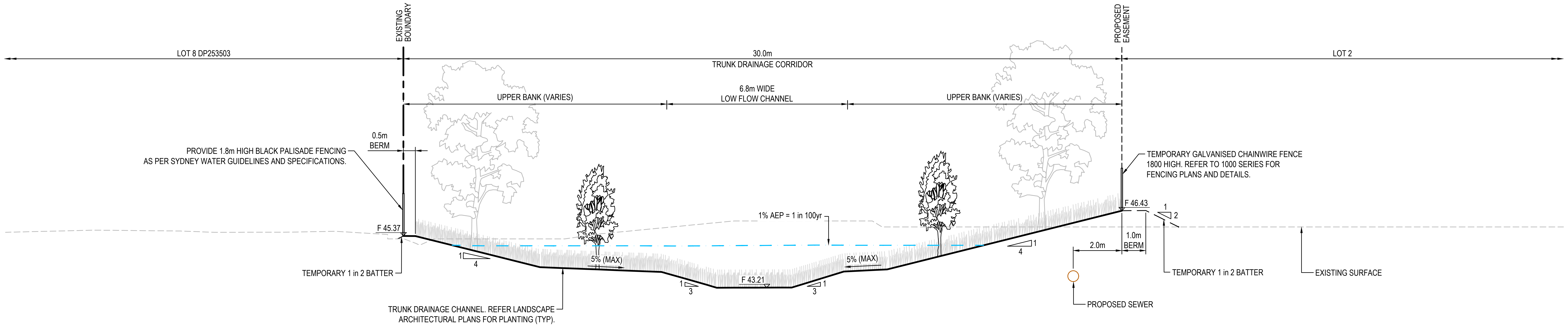
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2020
Issue
B

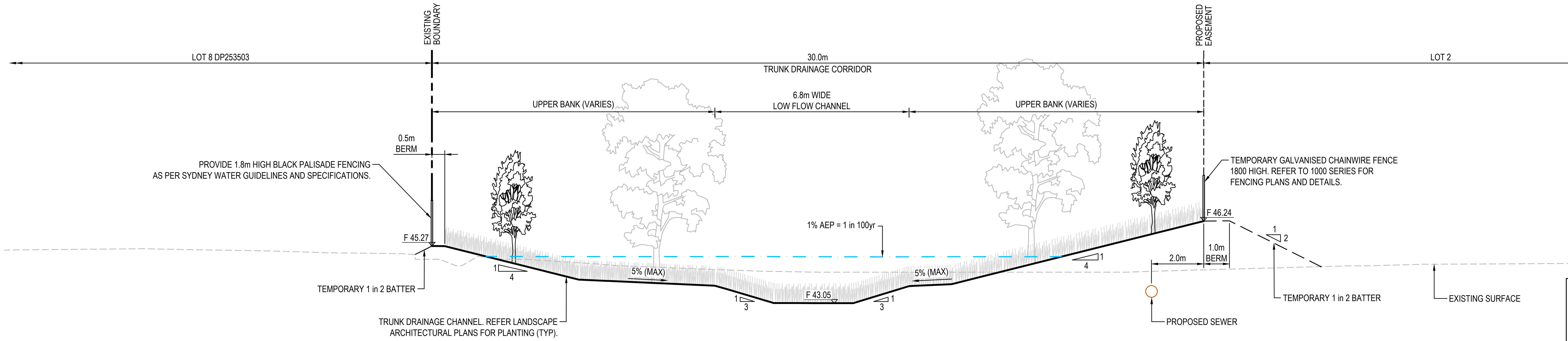
100mm on Original



SECTION 19
1 : 100
C2033



SECTION 20
1 : 100
C2033



SECTION 21
1 : 100
C2033

- NOTE:

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
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3. THIS PACKAGE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING PACKAGES.
   - 1000 SERIES - BULK EARTHWORKS & INFRASTRUCTURE
   - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1   1 : 200 @ A3

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Client

ICON
OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title

STORMWATER TRUNK
DRAINAGE CHANNEL
SECTIONS
SHEET 7

Civil Engineers and Project Managers

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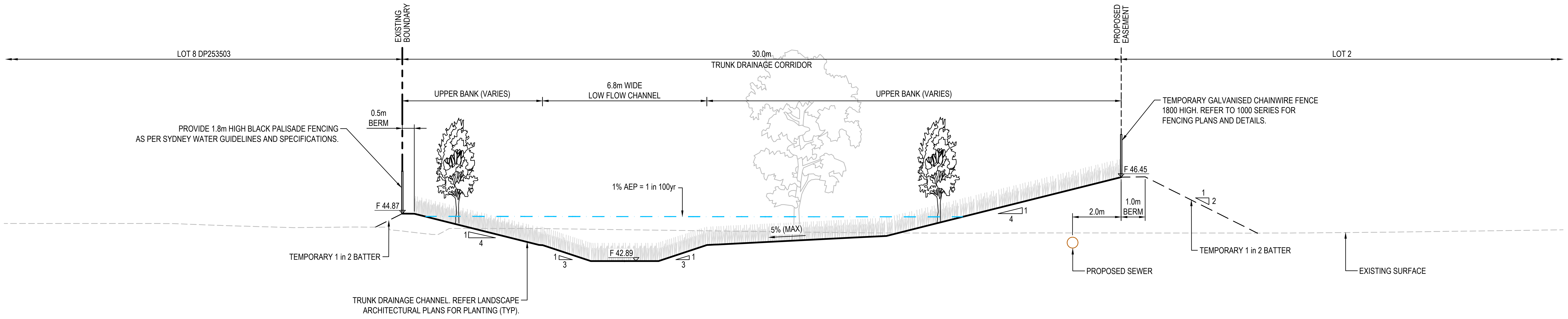
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

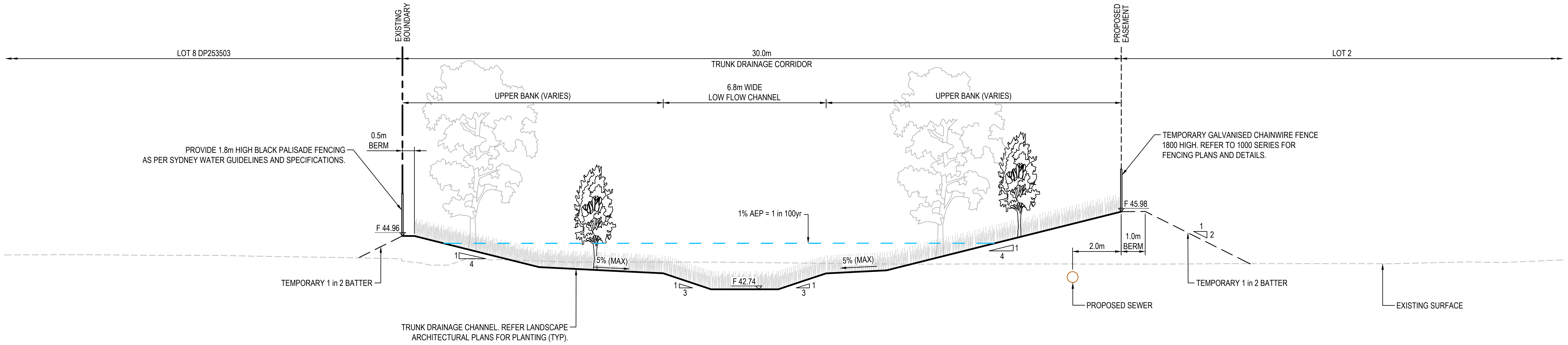
Project - Drawing No.
21-860-C2021

Issue
B

100mm on Original



SECTION 22
1 : 100
C2034



SECTION 23
1 : 100
C2034

- NOTE:

1. LANDSCAPING SHOWN WITHIN PROPOSED TRUNK DRAINAGE CORRIDOR IS INDICATIVE ONLY. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS.
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   - 3000 SERIES - EROSION & SEDIMENT CONTROL PLAN

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

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Client

ICON
OCEANIA

Scales	1 : 100	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
SECTIONS
SHEET 8

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info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2022

Issue
B

100mm on Original

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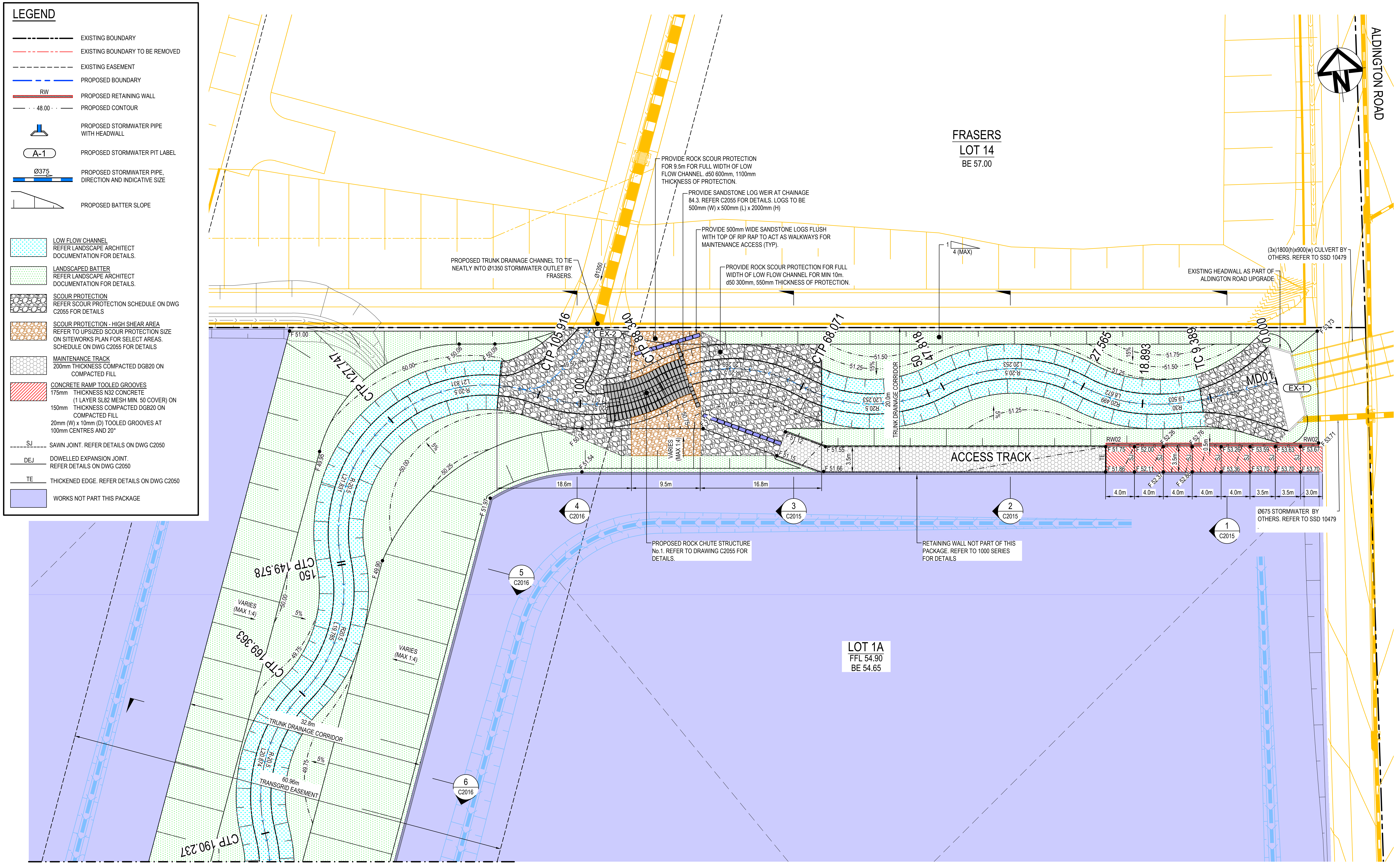
LEGEND

▬ ▪ ▪ ▬	EXISTING BOUNDARY
▬ - - ▬	EXISTING BOUNDARY TO BE REMOVED
- - - - -	EXISTING EASEMENT
▬ ▬ ▬	PROPOSED BOUNDARY
RW	PROPOSED RETAINING WALL
— · · 48.00 · · —	PROPOSED CONTOUR
	PROPOSED STORMWATER PIPE WITH HEADWALL
A-1	PROPOSED STORMWATER PIT LABEL
Ø375	PROPOSED STORMWATER PIPE, DIRECTION AND INDICATIVE SIZE
	PROPOSED BATTER SLOPE
▨	LOW FLOW CHANNEL REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	LANDSCAPED BATTER REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	SCOUR PROTECTION REFER SCOUR PROTECTION SCHEDULE ON DWG C2055 FOR DETAILS
▨	SCOUR PROTECTION - HIGH SHEAR AREA REFER TO UPSIZED SCOUR PROTECTION SIZE ON SITEWORKS PLAN FOR SELECT AREAS. SCHEDULE ON DWG C2055 FOR DETAILS
▨	MAINTENANCE TRACK 200mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL
▨	CONCRETE RAMP TOOLED GROOVES 175mm THICKNESS N32 CONCRETE (1 LAYER SL82 MESH MIN. 50 COVER) ON 150mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL 20mm (W) x 10mm (D) TOOLED GROOVES AT 100mm CENTRES AND 20°
- - SJ - -	SAWN JOINT. REFER DETAILS ON DWG C2050
DEJ	DOWELLED EXPANSION JOINT. REFER DETAILS ON DWG C2050
TE	THICKENED EDGE. REFER DETAILS ON DWG C2050
▨	WORKS NOT PART THIS PACKAGE



PROVIDE ROCK SCOUR PROTECTION FOR 9.5m FOR FULL WIDTH OF LOW FLOW CHANNEL. d50 600mm, 1100mm THICKNESS OF PROTECTION.

PROVIDE SANDSTONE LOG WEIR AT CHAINAGE 84.3. REFER C2055 FOR DETAILS. LOGS TO BE 500mm (W) x 500mm (L) x 2000mm (H)

PROVIDE 500mm WIDE SANDSTONE LOGS FLUSH WITH TOP OF RIP RAP TO ACT AS WALKWAYS FOR MAINTENANCE ACCESS (TYP).

PROPOSED TRUNK DRAINAGE CHANNEL TO TIE NEATLY INTO Ø1350 STORMWATER OUTLET BY FRASERS.

PROVIDE ROCK SCOUR PROTECTION FOR FULL WIDTH OF LOW FLOW CHANNEL FOR MIN 10m. d50 300mm, 550mm THICKNESS OF PROTECTION.

(3x)1800(h)x900(w) CULVERT BY OTHERS. REFER TO SSD 10479

EXISTING HEADWALL AS PART OF ALDINGTON ROAD UPGRADE

Ø675 STORMWATER BY OTHERS. REFER TO SSD 10479

PROPOSED ROCK CHUTE STRUCTURE No.1. REFER TO DRAWING C2055 FOR DETAILS.

RETAINING WALL NOT PART OF THIS PACKAGE. REFER TO 1000 SERIES FOR DETAILS

FOR CONTINUATION REFER TO DRAWING C2031

Issue	Description	Date
E	ISSUED FOR FOR APPROVAL	02-09-25
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client

ICON
OCEANIA

Scales	1 : 250	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
PLAN
SHEET 1

Civil Engineers and Project Managers
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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
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www.atl.net.au
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C2030

Issue
E

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\2000_TRUNK DRAINAGE\21-860-C2030.dwg

LEGEND

━ ‑ ‑ ━	EXISTING BOUNDARY
━ ‑ ‑ ━	EXISTING BOUNDARY TO BE REMOVED
‑ ‑ ‑ ‑	EXISTING EASEMENT
━ ‑ ‑ ━	PROPOSED BOUNDARY
RW	PROPOSED RETAINING WALL
· · 48.00 · ·	PROPOSED CONTOUR
	PROPOSED STORMWATER PIPE WITH HEADWALL
A-1	PROPOSED STORMWATER PIT LABEL
Ø375	PROPOSED STORMWATER PIPE, DIRECTION AND INDICATIVE SIZE
	PROPOSED BATTER SLOPE
▨	LOW FLOW CHANNEL REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	LANDSCAPED BATTER REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	SCOUR PROTECTION REFER SCOUR PROTECTION SCHEDULE ON DWG C2055 FOR DETAILS
▨	SCOUR PROTECTION - HIGH SHEAR AREA REFER TO UPSIZED SCOUR PROTECTION SIZE ON SITEWORKS PLAN FOR SELECT AREAS. SCHEDULE ON DWG C2055 FOR DETAILS
▨	MAINTENANCE TRACK 200mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL
▨	CONCRETE RAMP TOOLED GROOVES 175mm THICKNESS N32 CONCRETE (1 LAYER SL82 MESH MIN. 50 COVER) ON 150mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL 20mm (W) x 10mm (D) TOOLED GROOVES AT 100mm CENTRES AND 20°
SJ	SAWN JOINT. REFER DETAILS ON DWG C2050
DEJ	DOWELLED EXPANSION JOINT. REFER DETAILS ON DWG C2050
TE	THICKENED EDGE. REFER DETAILS ON DWG C2050
▨	WORKS NOT PART THIS PACKAGE

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client
ICON OCEANIA

Scales	1 : 250	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
PLAN
SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
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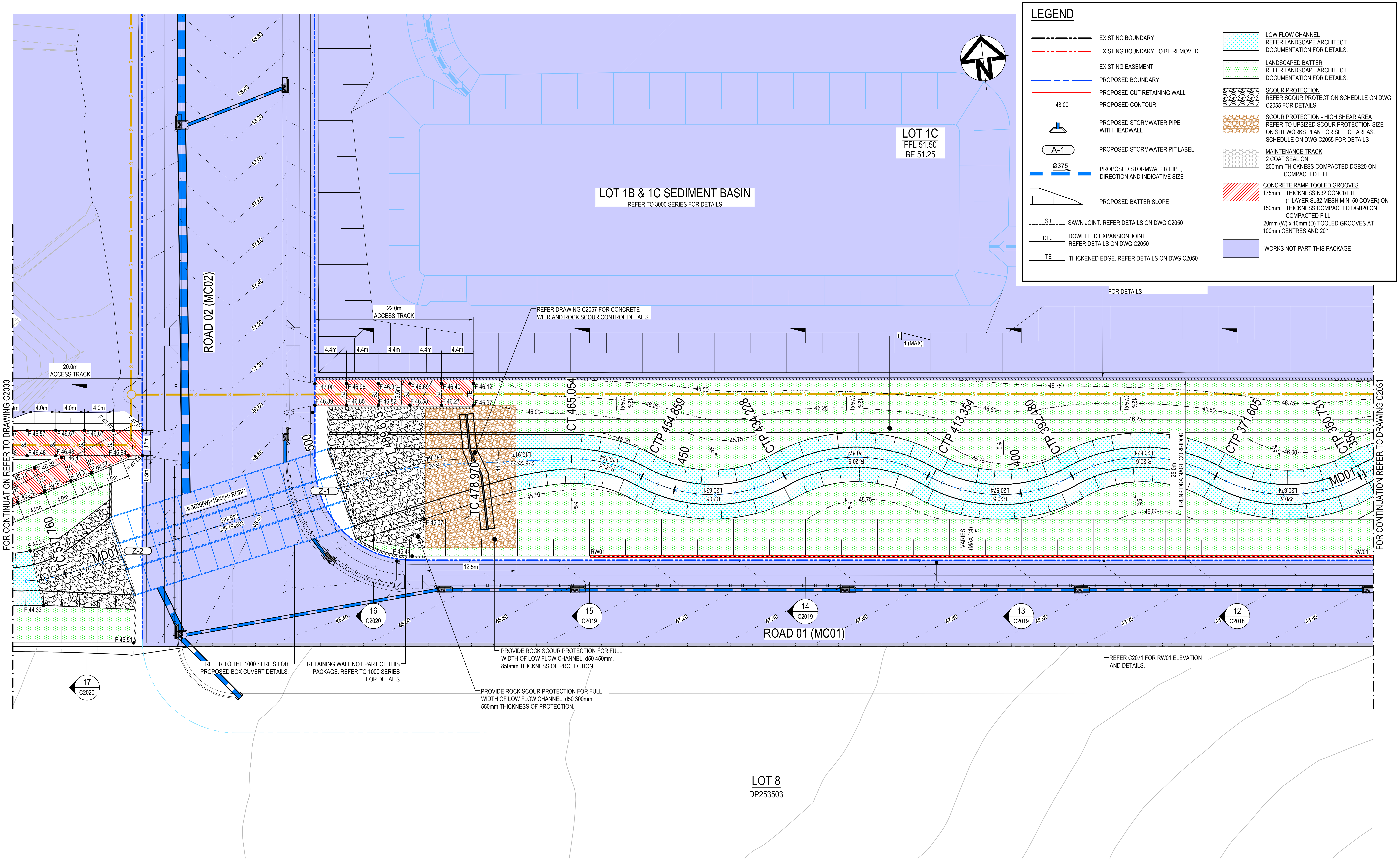
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2031
Issue
D

100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\2000_TRUNK DRAINAGE\21-860-C2031.dwg



LEGEND

━ ‑ ‑ ━	EXISTING BOUNDARY
─ ‑ ‑ ─	EXISTING BOUNDARY TO BE REMOVED
‑ ‑ ‑ ‑ ‑	EXISTING EASEMENT
━ ‑ ‑ ━	PROPOSED BOUNDARY
───	PROPOSED CUT RETAINING WALL
── · · 48.00 · · ──	PROPOSED CONTOUR
⊥	PROPOSED STORMWATER PIPE WITH HEADWALL
A-1	PROPOSED STORMWATER PIT LABEL
Ø375	PROPOSED STORMWATER PIPE, DIRECTION AND INDICATIVE SIZE
◺	PROPOSED BATTER SLOPE
SJ	SAWN JOINT. REFER DETAILS ON DWG C2050
DEJ	DOWELLED EXPANSION JOINT. REFER DETAILS ON DWG C2050
TE	THICKENED EDGE. REFER DETAILS ON DWG C2050

▨	LOW FLOW CHANNEL REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	LANDSCAPED BATTER REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	SCOUR PROTECTION REFER SCOUR PROTECTION SCHEDULE ON DWG C2055 FOR DETAILS
▨	SCOUR PROTECTION - HIGH SHEAR AREA REFER TO UPSIZED SCOUR PROTECTION SIZE ON SITEWORKS PLAN FOR SELECT AREAS. SCHEDULE ON DWG C2055 FOR DETAILS
▨	MAINTENANCE TRACK 2 COAT SEAL ON 200mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL
▨	CONCRETE RAMP TOOLED GROOVES 175mm THICKNESS N32 CONCRETE (1 LAYER SL82 MESH MIN. 50 COVER) ON 150mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL 20mm (W) x 10mm (D) TOOLED GROOVES AT 100mm CENTRES AND 20°
🟦	WORKS NOT PART THIS PACKAGE

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client
ICON
OCEANIA

Scales	1 : 250	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
PLAN
SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
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Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2032

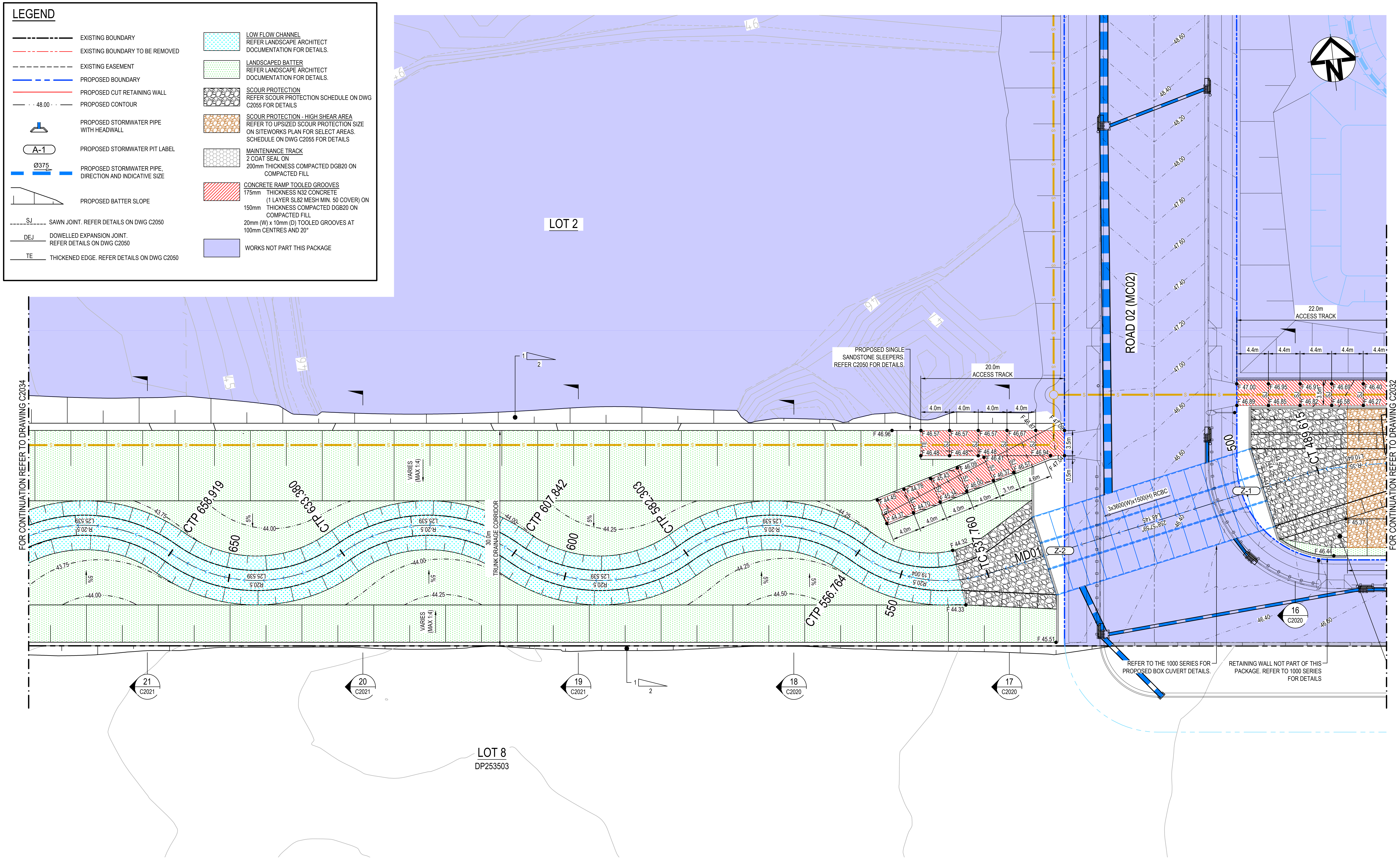
Issue
D

100mm on Original

LEGEND

- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- EXISTING EASEMENT
- PROPOSED BOUNDARY
- PROPOSED CUT RETAINING WALL
- 48.00 PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE WITH HEADWALL
- A-1 PROPOSED STORMWATER PIT LABEL
- Ø375 PROPOSED STORMWATER PIPE, DIRECTION AND INDICATIVE SIZE
- PROPOSED BATTER SLOPE
- SJ SAWN JOINT. REFER DETAILS ON DWG C2050
- DEJ DOWELLED EXPANSION JOINT. REFER DETAILS ON DWG C2050
- TE THICKENED EDGE. REFER DETAILS ON DWG C2050

- LOW FLOW CHANNEL
  REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
- LANDSCAPED BATTER
  REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
- SCOUR PROTECTION
  REFER SCOUR PROTECTION SCHEDULE ON DWG C2055 FOR DETAILS
- SCOUR PROTECTION - HIGH SHEAR AREA
  REFER TO UPSIZED SCOUR PROTECTION SIZE ON SITEWORKS PLAN FOR SELECT AREAS. SCHEDULE ON DWG C2055 FOR DETAILS
- MAINTENANCE TRACK
  2 COAT SEAL ON
  200mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL
- CONCRETE RAMP TOOLED GROOVES
  175mm THICKNESS N32 CONCRETE (1 LAYER SL82 MESH MIN. 50 COVER) ON
  150mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL
  20mm (W) x 10mm (D) TOOLED GROOVES AT 100mm CENTRES AND 20°
- WORKS NOT PART THIS PACKAGE



Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

ICON
OCEANIA

Scales	1 : 250	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
PLAN
SHEET 4

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2033

Issue
D

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LEGEND

━ ‒ ‒ ━	EXISTING BOUNDARY
─ ‒ ‒ ─	EXISTING BOUNDARY TO BE REMOVED
‒ ‒ ‒ ‒	EXISTING EASEMENT
━ ‒ ‒ ━	PROPOSED BOUNDARY
───	PROPOSED CUT RETAINING WALL
— · · 48.00 · · —	PROPOSED CONTOUR
	PROPOSED STORMWATER PIPE WITH HEADWALL
A-1	PROPOSED STORMWATER PIT LABEL
Ø375	PROPOSED STORMWATER PIPE, DIRECTION AND INDICATIVE SIZE
	PROPOSED BATTER SLOPE
SJ	SAWN JOINT. REFER DETAILS ON DWG C2050
DEJ	DOWELLED EXPANSION JOINT. REFER DETAILS ON DWG C2050
TE	THICKENED EDGE. REFER DETAILS ON DWG C2050
▨	LOW FLOW CHANNEL REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	LANDSCAPED BATTER REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
▨	SCOUR PROTECTION REFER SCOUR PROTECTION SCHEDULE ON DWG C2055 FOR DETAILS
▨	SCOUR PROTECTION - HIGH SHEAR AREA REFER TO UPSIZED SCOUR PROTECTION SIZE ON SITEWORKS PLAN FOR SELECT AREAS. SCHEDULE ON DWG C2055 FOR DETAILS
▨	MAINTENANCE TRACK 2 COAT SEAL ON 200mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL
▨	CONCRETE RAMP TOOLED GROOVES 175mm THICKNESS N32 CONCRETE (1 LAYER SL82 MESH MIN. 50 COVER) ON 150mm THICKNESS COMPACTED DGB20 ON COMPACTED FILL 20mm (W) x 10mm (D) TOOLED GROOVES AT 100mm CENTRES AND 20°
▨	WORKS NOT PART THIS PACKAGE

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client

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OCEANIA

Scales	1 : 250	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
PLAN
SHEET 5

Civil Engineers and Project Managers

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Project - Drawing No.
21-860-C2034

Issue
D

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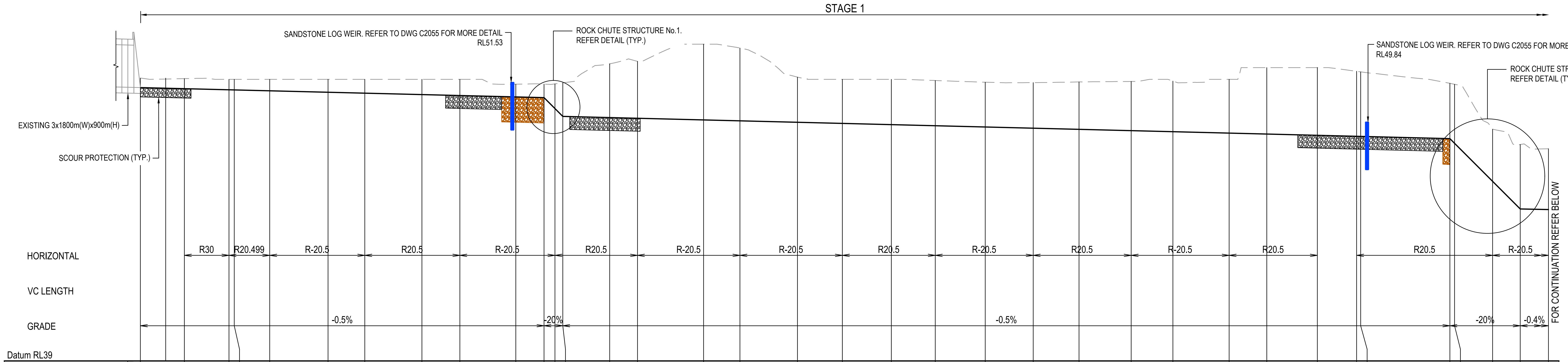


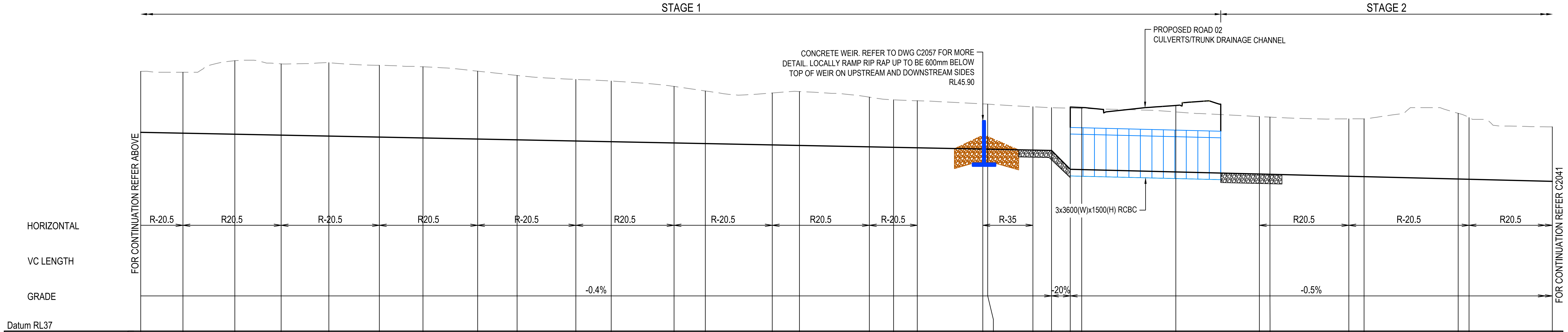
PROPOSED SURFACE LEVEL	50.650	50.603	50.556	50.550	50.512	50.450	50.411	50.350	50.310	50.250	50.220	49.752
EXISTING SURFACE LEVEL	51.053	51.032	51.000	51.000	51.000	51.000	51.000	51.000	51.000	50.793	50.796	50.807
CHAINAGE	0.000	9.389	18.893	20.000	27.565	40.000	47.818	60.000	68.071	80.000	86.000	88.340
	TP	TP					TP		TP			TP

PROPOSED SURFACE LEVEL	49.420	49.370	49.340	49.270	49.231	49.170	49.122	49.070	49.023	48.970	48.919	48.870
EXISTING SURFACE LEVEL	50.853	51.661	51.766	52.500	52.335	51.094	51.000	51.000	50.951	50.878	50.861	50.889
CHAINAGE	90.000	100.000	105.916	120.000	127.747	140.000	149.578	160.000	169.363	180.000	190.237	200.000
			TP		TP		TP		TP		TP	

PROPOSED SURFACE LEVEL	48.814	48.770	48.710	48.670	48.616	48.574	48.570	48.475	48.275	46.653	45.475	45.451
EXISTING SURFACE LEVEL	50.910	50.926	51.000	51.500	51.500	51.343	51.319	50.831	50.791	48.875	48.222	48.041
CHAINAGE	211.111	220.000	231.985	240.000	250.764	259.131	260.000	279.000	280.000	288.109	294.000	300.000
	TP		TP		TP	TP				TP		

STORMWATER TRUNK DRAINAGE (MD01) LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.



PROPOSED SURFACE LEVEL	45.451	45.415	45.371	45.332	45.291	45.248	45.211	45.165	45.131	45.081	45.051
EXISTING SURFACE LEVEL	48.041	48.000	48.492	48.356	48.408	48.296	48.235	48.050	47.867	47.698	47.630
CHAINAGE	300.000	308.983	320.000	329.857	340.000	350.731	360.000	371.605	380.000	392.480	400.000
		TP		TP		TP		TP		TP	

PROPOSED SURFACE LEVEL	44.998	44.971	44.914	44.891	44.832	44.811	44.791	44.735	44.731	44.693	44.677
EXISTING SURFACE LEVEL	47.401	47.207	47.122	47.182	46.944	46.831	46.790	46.658	46.646	46.535	46.497
CHAINAGE	413.354	420.000	434.228	440.000	454.859	460.000	465.054	478.970	480.000	489.615	493.568
	TP		TP		TP		TP	TP		TP	

PROPOSED SURFACE LEVEL	43.877	43.865	43.765	43.676	43.665	43.581	43.565	43.465	43.453	43.365
EXISTING SURFACE LEVEL	46.476	46.463	46.315	46.118	46.095	46.022	46.022	46.257	46.077	45.681
CHAINAGE	497.568	500.000	520.000	537.760	540.000	556.764	560.000	580.000	582.303	600.000
				TP		TP			TP	

STORMWATER TRUNK DRAINAGE (MD01) LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

NOTE:
- REFER TO DRAWING No. C2041 FOR SINUOSITY CALCULATIONS
- REFER TO DRAWING No. C2055 FOR ROCK DROP STRUCTURE AND ROCK SCOUR PROTECTION DETAILS

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
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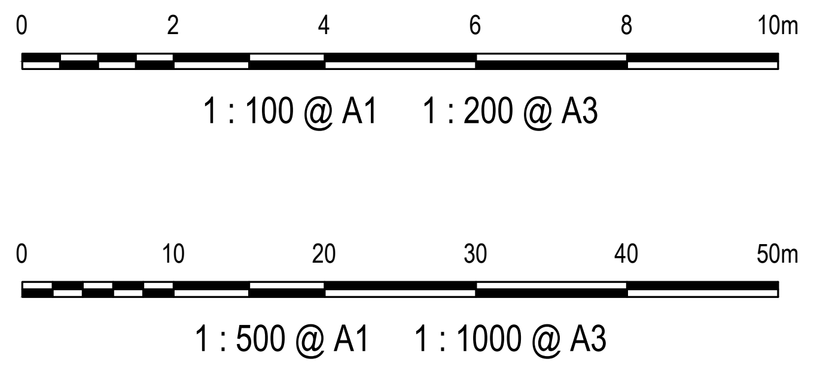
A	ISSUED FOR INFORMATION	31-03-25

Bar Scales



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Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER TRUNK
DRAINAGE CHANNEL
LONGITUDINAL SECTION
SHEET 1

Civil Engineers and Project Managers

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Status
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Project - Drawing No.
21-860-C2040

Issue
D

100mm on Original

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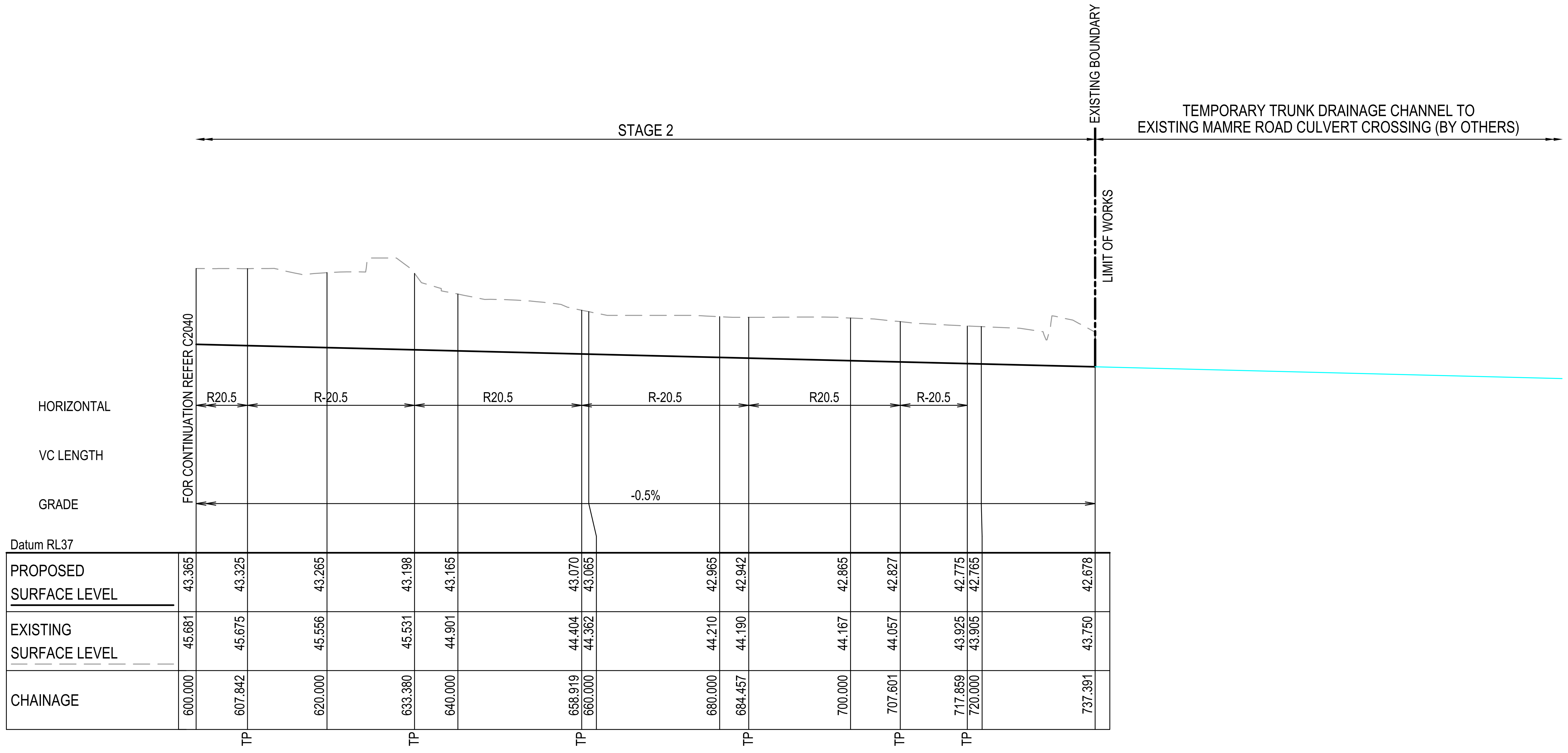
Minimum sinuosity of 1.05, where:

$$Sinuosity = \frac{Low\ Flow\ Channel\ Length\ (m)}{Corridor\ Length\ (m)}$$

SINUOSITY CH 0.00 - CH 497.568 = $\frac{497.568m}{478.343m}$ SINUOSITY CH 529.547 - CH 737.391 = $\frac{207.844m}{196.563m}$

SINUOSITY CH 0.00 - CH 497.568= 1.040 SINUOSITY CH 529.547 - CH 737.391= 1.057

CHANNEL SINUOSITY



PROPOSED SURFACE LEVEL	43.365	43.325	43.265	43.198	43.165	43.070	43.065	42.965	42.942	42.865	42.827	42.775	42.765	42.678
EXISTING SURFACE LEVEL	45.681	45.675	45.556	45.531	44.901	44.404	44.362	44.210	44.190	44.167	44.057	43.925	43.905	43.750
CHAINAGE	600.000	607.842	620.000	633.380	640.000	658.919	660.000	680.000	684.457	700.000	707.601	717.859	720.000	737.391

STORMWATER TRUNK DRAINAGE (MD01) LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

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A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

Client
ICON
OCEANIA

Scales: AS SHOWN
Grid: GDA 2020
Height Datum: AHD

GDA2020

Drawn: ASD
Designed: ASD
Checked: MM
Approved:

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
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DRAINAGE CHANNEL
LONGITUDINAL SECTION
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Status
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A1

Project - Drawing No.
21-860-C2041

Issue
D

CONTROL MD01 (TRUNK DRAINAGE CHANNEL) - SETOUT TABLE (CL)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	296061.502	6252033.256	262°17'50.17"			
TC	9.389	296052.197	6252031.998	262°17'50.17"			
IP 2	14.141	296047.448	6252031.355		R = 30.000	9.503	18°08'59.57"
IP 3	18.893	296042.736	6252032.224				
	20.000	296041.653	6252032.454	283°32'30.68"			
IP 4	23.229	296038.407	6252033.022		R = 20.499	8.672	24°14'23.75"
IP 5	27.565	296034.787	6252035.528				
IP 6	37.691	296025.710	6252041.810		R = -20.500	20.253	56°36'20.20"
	40.000	296023.097	6252039.171	269°56'00.52"			
IP 7	47.818	296015.469	6252037.690				
IP 8	57.944	296005.227	6252033.569		R = 20.500	20.253	56°36'15.10"
	60.000	296003.509	6252036.666	282°07'50.13"			
CC	68.071	295996.150	6252039.851	304°41'13.45"			
IP 9	78.205	295987.064	6252046.140		R = -20.500	20.269	56°39'01.96"
	80.000	295984.965	6252043.489	271°20'42.81"			
CC	88.340	295976.816	6252042.007	248°02'11.49"			
IP 10	97.128	295968.127	6252038.503		R = 20.500	17.577	49°07'31.04"
	100.000	295965.369	6252040.871	280°37'34.13"			
CC	105.916	295959.791	6252042.780	297°09'42.53"			
IP 11	116.832	295949.044	6252048.294		R = -20.500	21.831	61°00'54.34"
	120.000	295946.100	6252044.578	257°47'56.98"			
CC	127.747	295939.013	6252041.565	236°08'48.19"			
IP 12	138.662	295928.981	6252034.836		R = -20.500	21.831	61°00'54.34"
	140.000	295931.412	6252032.187	201°54'03.02"			
CC	149.578	295930.006	6252022.801	175°07'53.85"			
IP 13	159.470	295930.918	6252012.100		R = 20.500	19.785	55°17'51.00"
	160.000	295928.270	6252012.638	204°15'38.64"			
CC	169.363	295922.640	6252005.259	230°25'44.86"			
IP 14	179.800	295913.819	6251997.969		R = -20.500	20.874	58°20'29.64"
	180.000	295916.522	6251996.703	200°41'57.11"			
CC	190.237	295915.394	6251986.635	172°05'15.21"			
	200.000	295914.428	6251977.012	199°22'27.27"			
IP 15	200.674	295916.969	6251975.300		R = 20.500	20.874	58°20'29.64"
CC	211.111	295908.148	6251968.011	230°25'44.86"			
	220.000	295902.718	6251961.061	205°35'08.49"			
IP 16	221.548	295899.327	6251960.721		R = -20.500	20.874	58°20'29.64"
CC	231.985	295900.902	6251949.386	172°05'15.21"			
	240.000	295900.446	6251941.436	194°29'15.90"			
IP 17	241.375	295902.294	6251939.376		R = 20.500	18.779	52°29'07.07"
CT	250.764	295895.201	6251932.177	224°34'22.29"			
TC	259.131	295889.329	6251926.217	224°34'22.29"			
	260.000	295888.706	6251925.611	227°00'06.33"			
IP 18	273.620	295877.043	6251913.747		R = 20.500	28.978	80°59'25.75"
	280.000	295870.149	6251920.622	282°54'00.29"			
CC	288.109	295862.803	6251923.928	305°33'48.04"			
IP 19	298.546	295853.494	6251930.583		R = -20.500	20.874	58°20'29.64"
	300.000	295851.713	6251927.735	272°19'41.83"			
CC	308.983	295842.943	6251926.153	247°13'18.39"			
IP 20	319.420	295832.392	6251921.723		R = 20.500	20.874	58°20'29.64"
	320.000	295832.148	6251924.754	278°00'48.91"			
CC	329.857	295823.083	6251928.378	305°33'48.04"			
	340.000	295813.735	6251932.040	277°12'53.21"			
IP 21	340.294	295813.775	6251935.034		R = -20.500	20.874	58°20'29.64"
CC	350.731	295803.224	6251930.603	247°13'18.39"			
	360.000	295794.169	6251929.035	273°07'37.54"			
IP 22	361.168	295792.673	6251926.173		R = 20.500	20.874	58°20'29.64"
CC	371.605	295783.364	6251932.828	305°33'48.04"			
	380.000	295775.739	6251936.196	282°06'04.58"			
IP 23	382.043	295774.055	6251939.484		R = -20.500	20.874	58°20'29.64"
CC	392.480	295763.504	6251935.053	247°13'18.39"			
	400.000	295756.197	6251933.464	268°14'26.16"			

CONTROL MD01 (TRUNK DRAINAGE CHANNEL) - SETOUT TABLE (CL)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 24	402.917	295752.953	6251930.623		R = 20.500	20.874	58°20'29.64"
CC	413.354	295743.644	6251937.278	305°33'48.04"			
	420.000	295737.711	6251940.207	286°59'15.95"			
IP 25	423.791	295734.336	6251943.934		R = -20.500	20.874	58°20'29.65"
CC	434.228	295723.785	6251939.503	247°13'18.39"			
	440.000	295718.220	6251938.042	263°21'14.79"			
IP 26	444.544	295713.380	6251935.134		R = 20.500	20.631	57°39'46.56"
CC	454.859	295704.123	6251941.588	304°53'04.95"			
IP 27	459.956	295699.854	6251944.565		R = -20.500	10.194	28°29'31.74"
	460.000	295699.584	6251943.971	290°31'01.15"			
CT	465.054	295694.681	6251945.144	276°23'33.21"			
TC	478.970	295680.851	6251946.694	276°23'33.21"			
	480.000	295679.826	6251946.793	274°42'23.90"			
IP 28	484.293	295675.521	6251947.291		R = -35.000	10.645	17°25'33.97"
CT	489.615	295670.256	6251946.264	258°57'59.24"			
	500.000	295660.063	6251944.277	258°57'59.24"			
	520.000	295640.433	6251940.449	258°57'59.24"			
TC	537.760	295623.001	6251937.050	258°57'59.24"			
	540.000	295620.783	6251936.742	265°13'34.88"			
IP 29	547.262	295612.944	6251935.089		R = 20.500	19.004	53°06'54.14"
CC	556.764	295605.339	6251941.956	312°04'53.39"			
	560.000	295602.776	6251943.927	303°02'17.93"			
IP 30	569.534	295594.410	6251951.825		R = -20.500	25.539	71°22'41.10"
	580.000	295583.636	6251945.631	247°08'23.98"			
CC	582.303	295581.569	6251944.619	240°42'12.29"			
IP 31	595.072	295568.727	6251937.414		R = 20.500	25.539	71°22'41.10"
	600.000	295564.470	6251943.254	290°09'54.56"			
CC	607.842	295557.798	6251947.283	312°04'53.39"			
	620.000	295546.948	6251952.363	278°05'58.26"			
IP 32	620.611	295546.870	6251957.151		R = -20.500	25.539	71°22'41.10"
CC	633.380	295534.028	6251949.946	240°42'12.29"			
	640.000	295527.836	6251947.686	259°12'20.27"			
IP 33	646.149	295521.187	6251942.740		R = 20.500	25.539	71°22'41.10"
CC	658.919	295510.258	6251952.609	312°04'53.39"			
	660.000	295509.437	6251953.312	309°03'32.54"			
IP 34	671.688	295499.330	6251962.477		R = -20.500	25.539	71°22'41.10"
	680.000	295490.581	6251957.015	253°09'38.58"			
CC	684.457	295486.488	6251955.272	240°42'12.29"			
IP 35	696.029	295475.167	6251948.920		R = 20.500	23.144	64°41'06.14"
	700.000	295471.447	6251953.271	284°08'39.95"			
CC	707.601	295464.585	6251956.437	305°23'18.42"			
IP 36	712.730	295460.314	6251959.471		R = -20.500	10.258	28°40'17.02"
CT	717.859	295455.111	6251960.084	276°43'01.40"			
	720.000	295452.985	6251960.334	276°43'01.40"			
IP 37	737.391	295435.713	6251962.369	276°43'01.40"			

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
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100mm on Original

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DRAINAGE CHANNEL
SETOUT TABLE

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Status
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Project - Drawing No.
21-860-C2042
Issue
B

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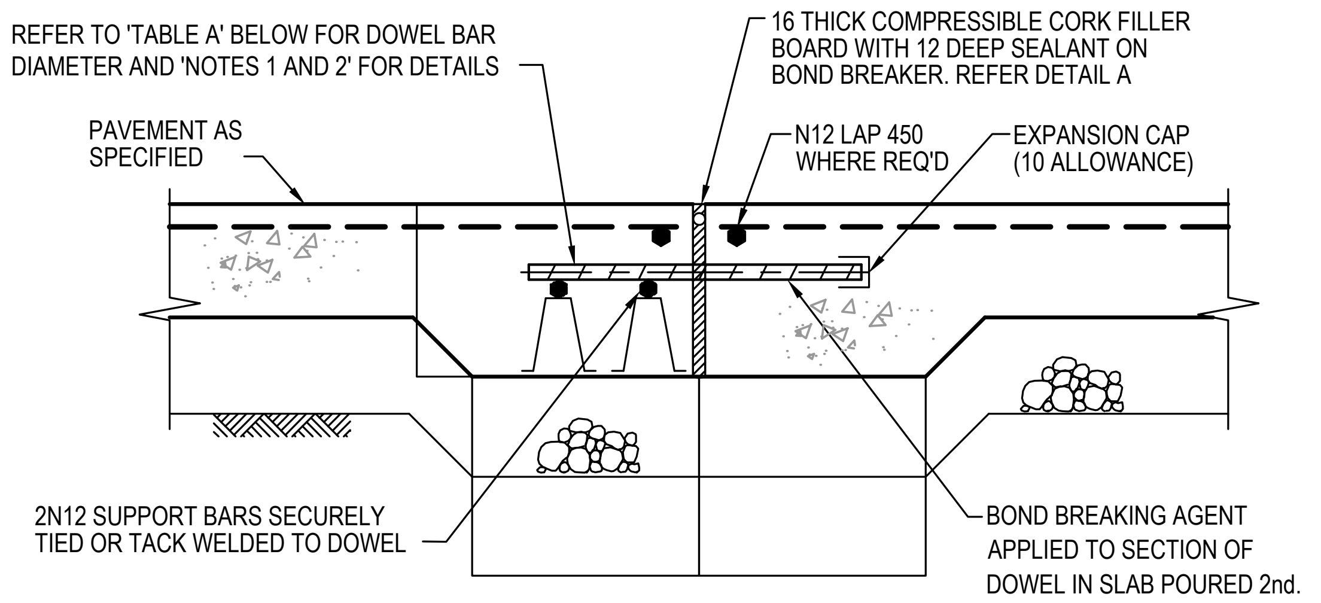


DOWELLED EXPANSION JOINT (DEJ)

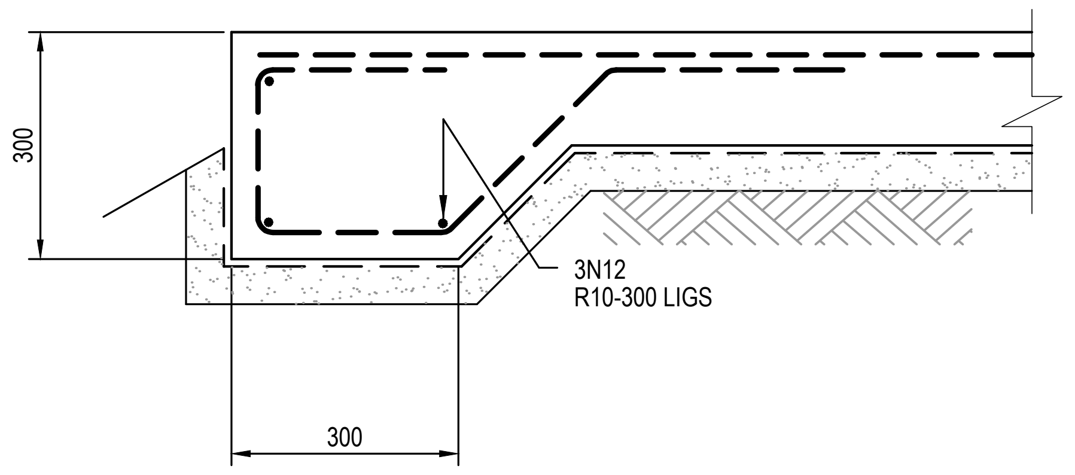
SCALE 1:10

NOTE

1. DOWEL BARS ARE TO BE PLAIN ROUND STEEL BARS OF GRADE 250N AND 450mm LONG PLACED AT 300mm CENTRES.
2. MORE THAN HALF OF THE DOWEL SHOULD BE COATED WITH DEBONDING AGENT TO ENSURE EFFECTIVE DEBONDING FROM THE CONCRETE ON THAT SIDE OF THE JOINT.

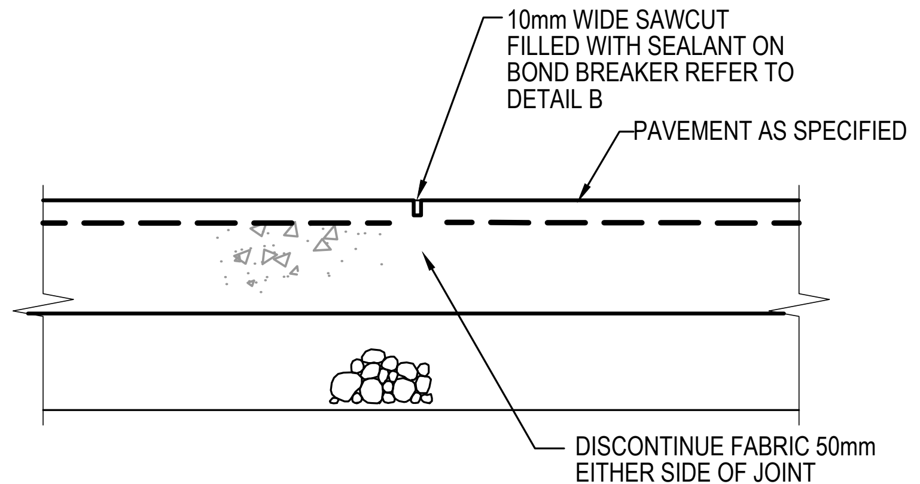
TABLE A

SLAB THICKNESS	DOWEL DIA.
125<D≤160	24
160<D≤200	28
200<D≤250	32
D>250	36



THICKENED EDGE DETAIL (TE)

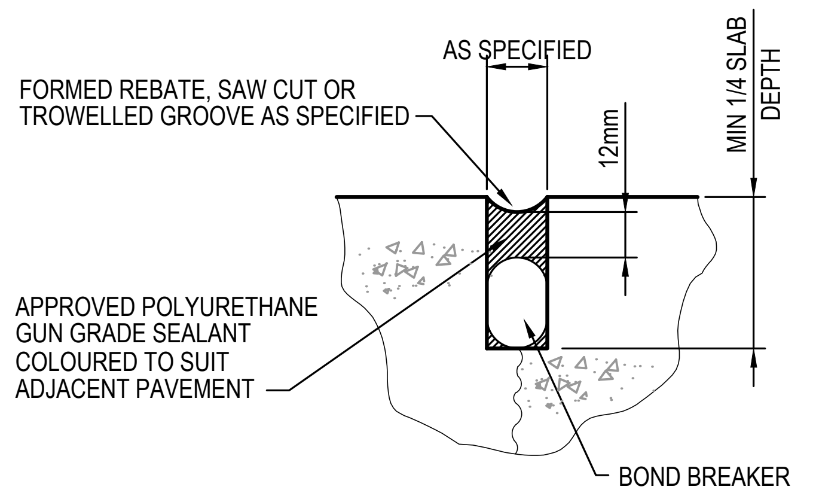
SCALE 1:10



NOTE:SAWCUT TO BE MADE 24 HOURS MAX. AFTER SLAB IS POURED

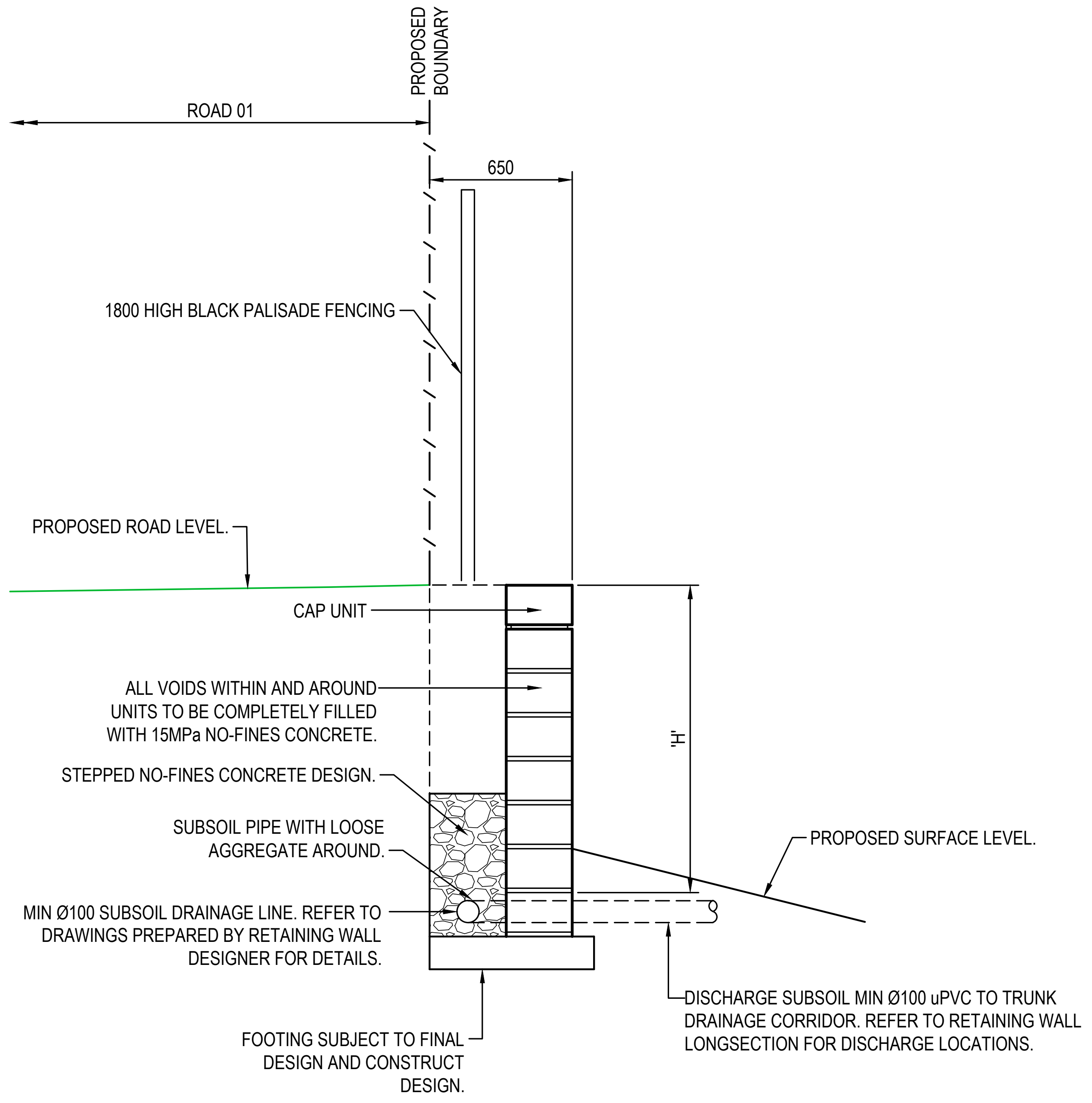
SAWN JOINT (SJ)

SCALE 1:10



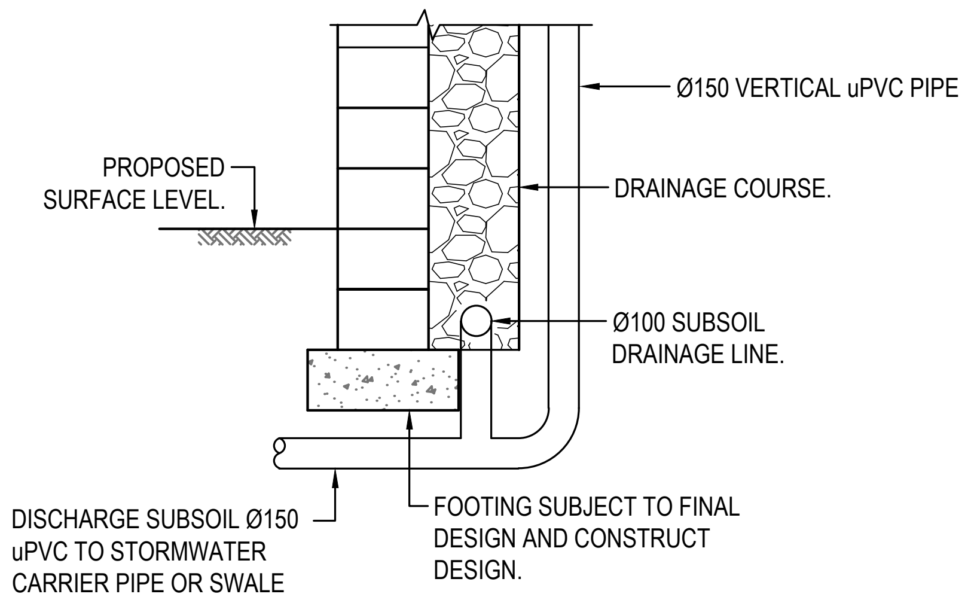
DETAIL B

N.T.S.



RETAINING WALL DETAIL

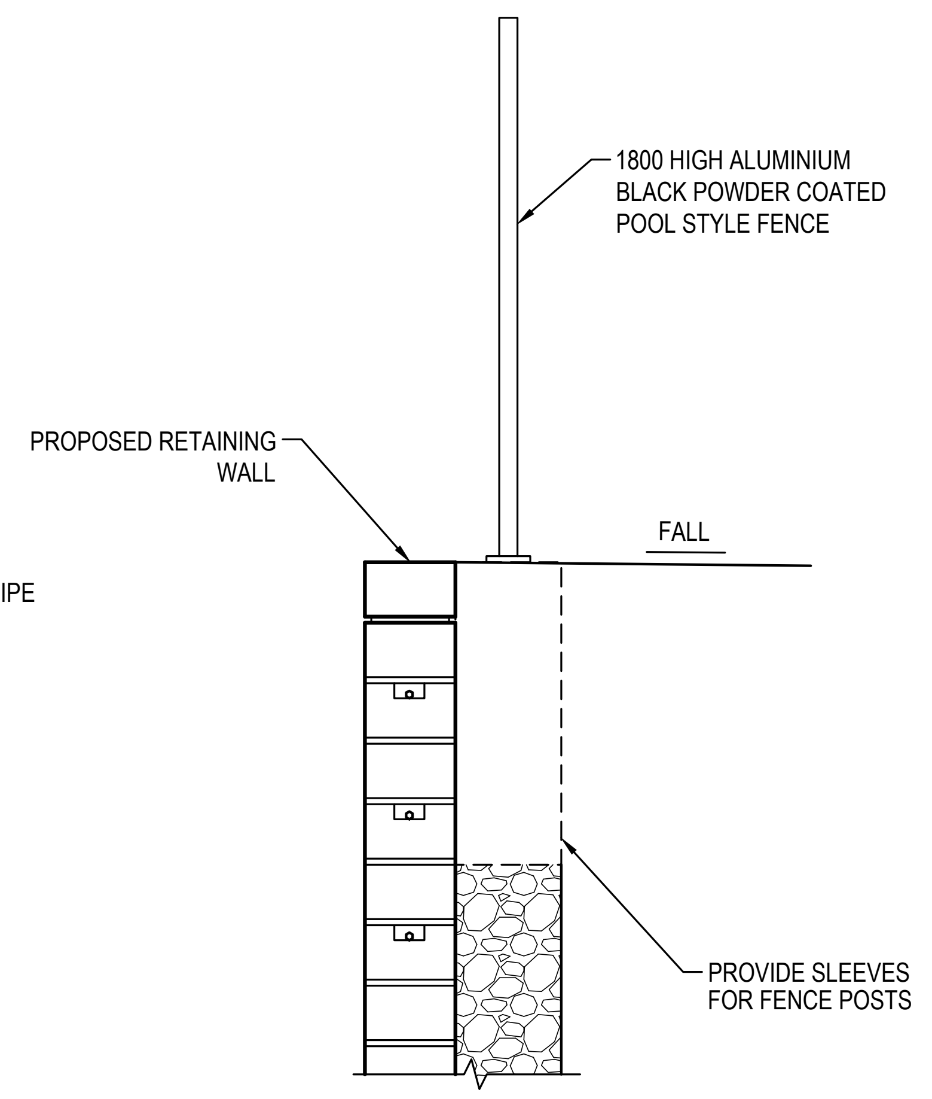
SCALE 1 : 25



DETAIL 1

SCALE 1 : 25

-



DETAIL 2

SCALE 1 : 25

-

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

Bar Scales

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

0 0.5 1 1.5 2 2.5m

1 : 25 @ A1 1 : 50 @ A3

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Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title

SITEWORKS
DETAILS SHEET

Civil Engineers and Project Managers

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

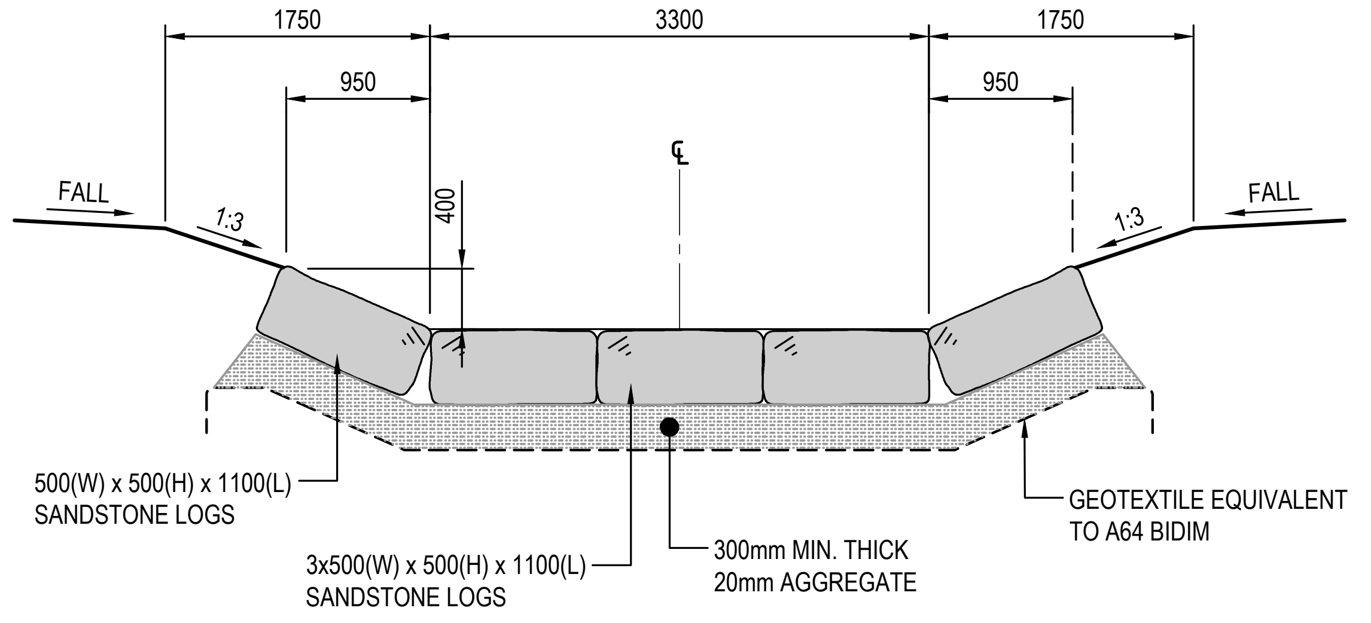
A1

Project - Drawing No.
21-860-C2050

Issue
D

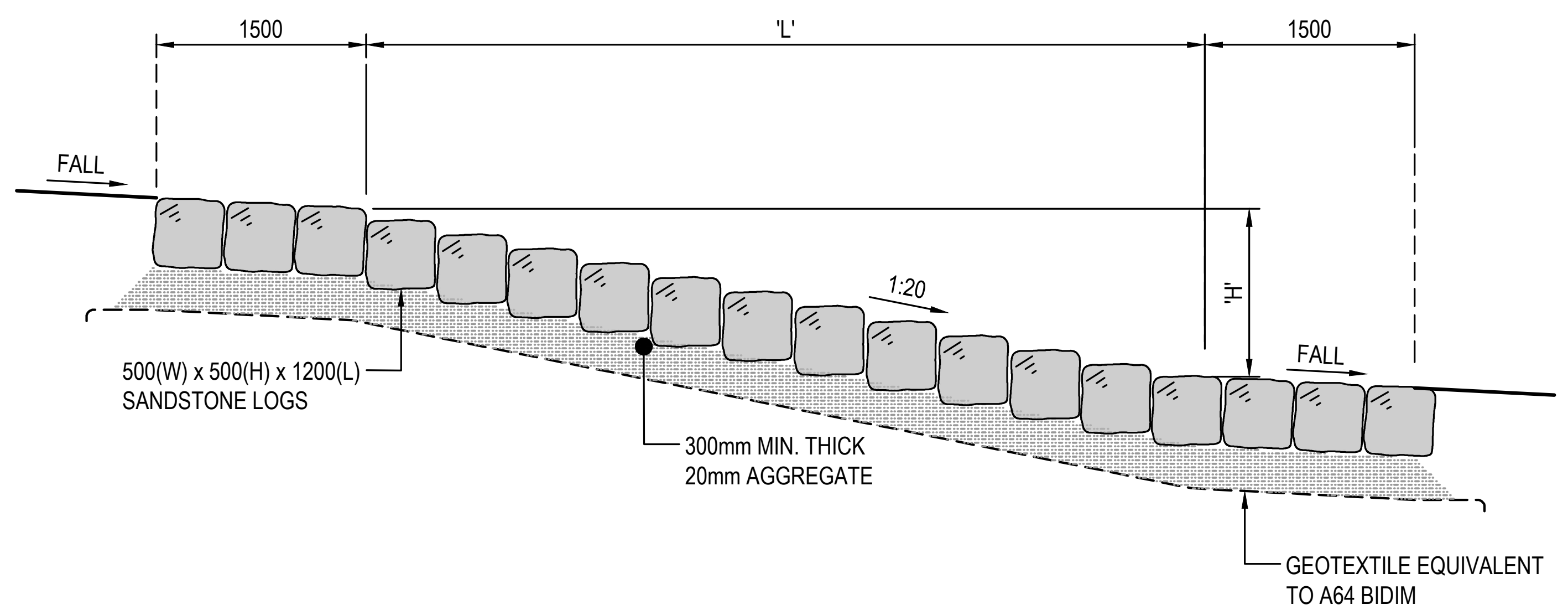
100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\2000_TRUNK DRAINAGE\21-860-C2050.dwg



ROCK CHUTE STRUCTURE - CROSS SECTION

SCALE 1:50



ROCK CHUTE STRUCTURE - LONGITUDINAL SECTION

SCALE 1:50

ROCK CHUTE SCHEDULE

STRUCTURE No.	LENGTH OF PROTECTION (m)	HEIGHT OF PROTECTION (m)
	'L'	'H'
1	4.0	0.8
2	15.0	3.0

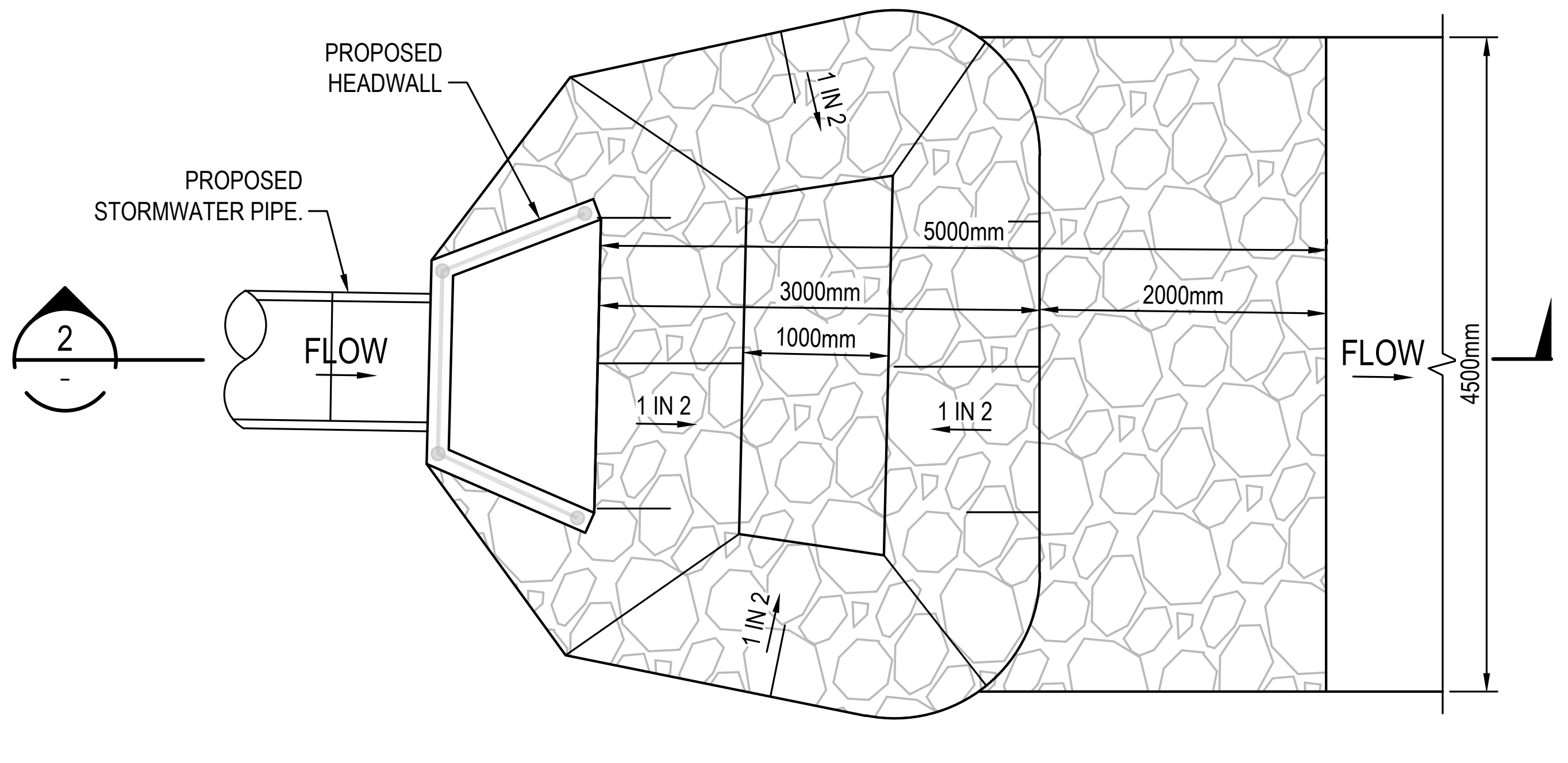
ROCK GRADATION TABLE

	d_{50}				ROCK DISTRIBUTION BY %
	250mm	300mm	450mm	600mm	
ROCK SIZE (mm)	500	600	750	900	15-25%
	380	450	525	750	20%
	250	300	450	600	50%
	100	120	150	200	15-25%

NOTE:
1. MINIMUM NOMINAL ROCK SIZE 'd50' IS 250mm.
2. THICKNESS 'T' IS 1.8 x NOMINAL ROCK SIZE
3. ROCK IS NOT TO BE SITE WON SHALE OR OTHER WEATHERABLE ROCK

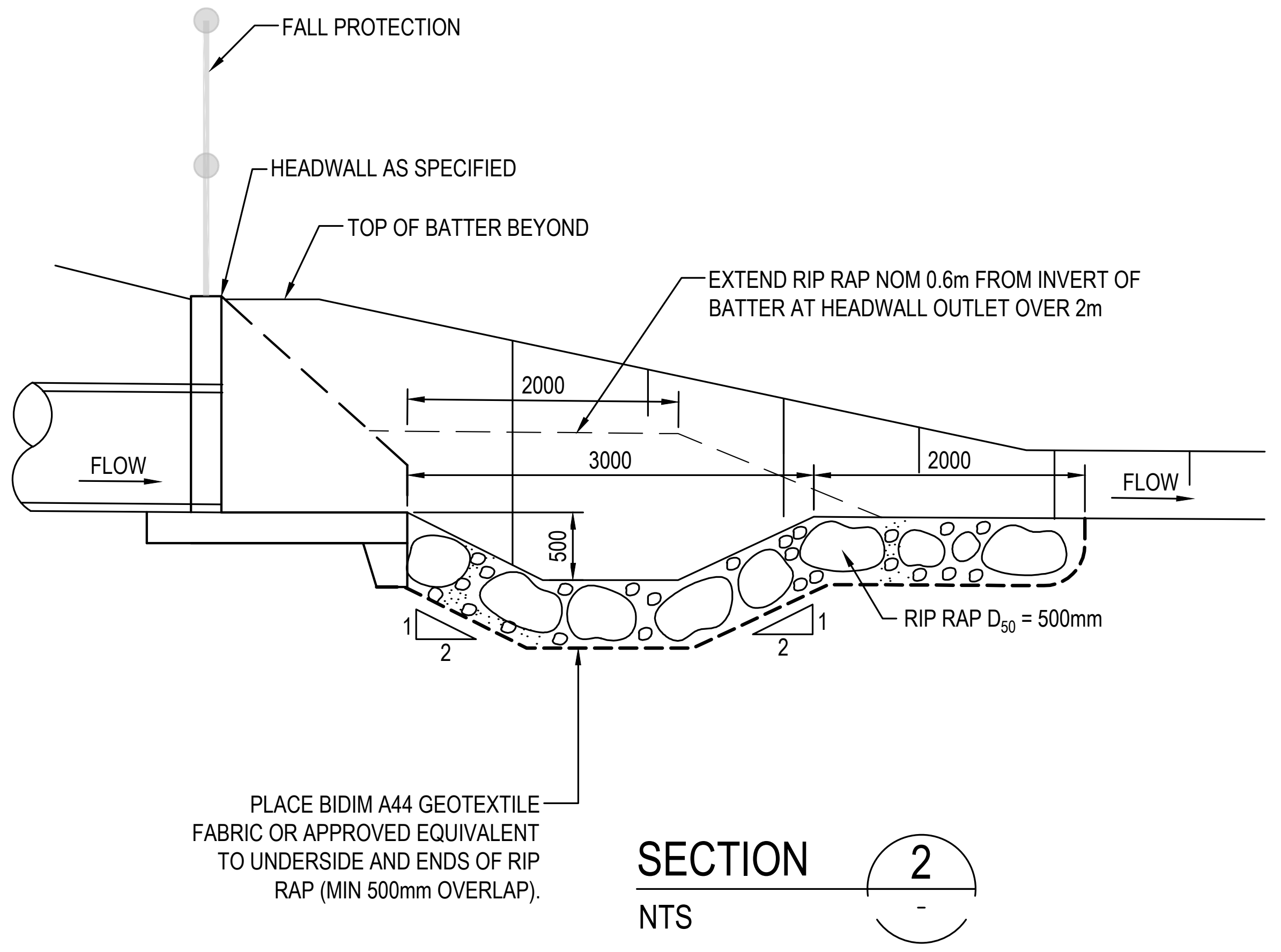
SCOUR PROTECTION SCHEDULE

HEADWALL No.	PIPE Ø (mm)	LENGTH OF PROTECTION (m)	WIDTH OF PROTECTION (m)	NOMINAL ROCK SIZE (mm)	THICKNESS OF PROTECTION (mm)
	'D'	'L'	'W'	'd_{50}'	'T'
EX-1	3x1.8(W)x0.9(H) RCBC	10.0	10.0	250	400
A-6	750	7.0	5.0	300	550
Z-1	3x3.6(W)x1.5(H) RCBC	60	15.0	250	400
Z-2	3x3.6(W)x1.5(H) RCBC	13.0	15.0	250	400



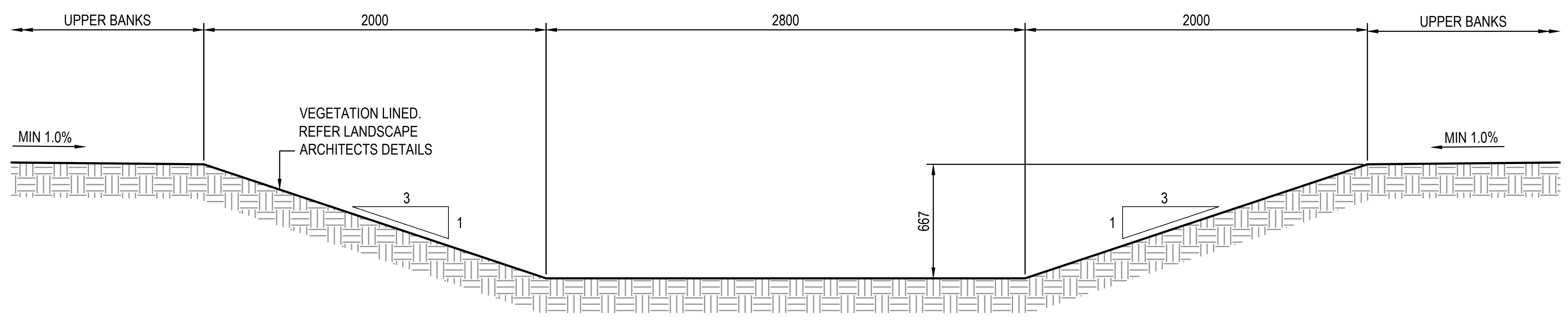
RIP RAP ENERGY DISSIPATER DETAIL

1 : 50



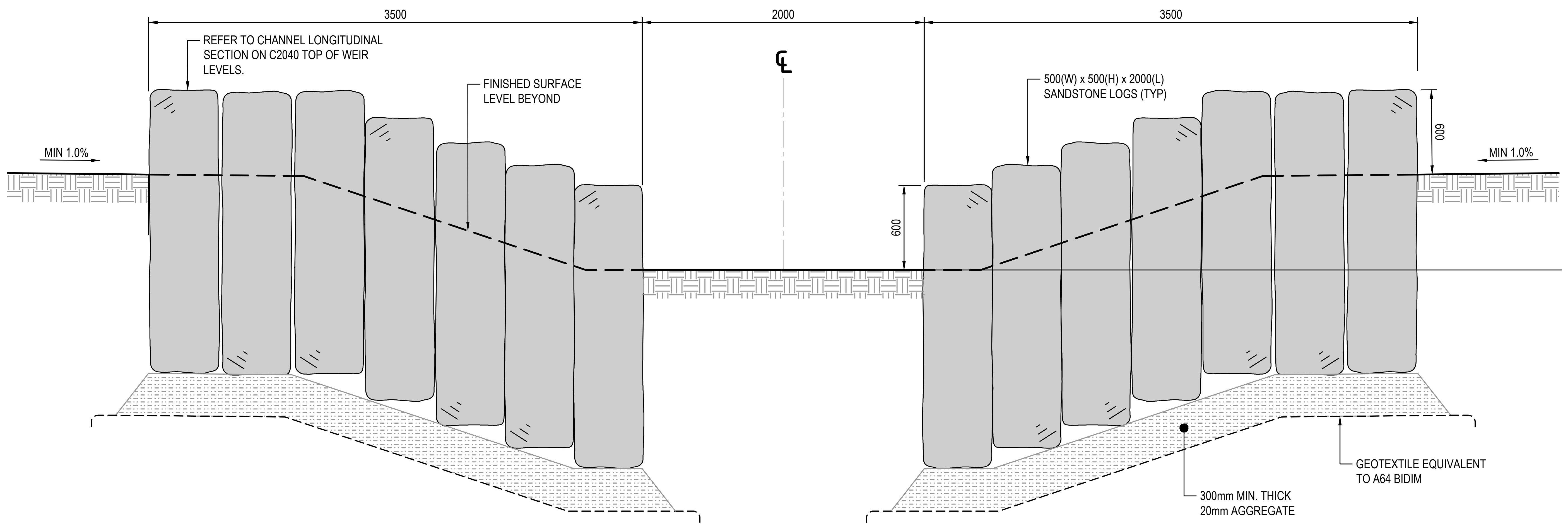
SECTION 2

NTS



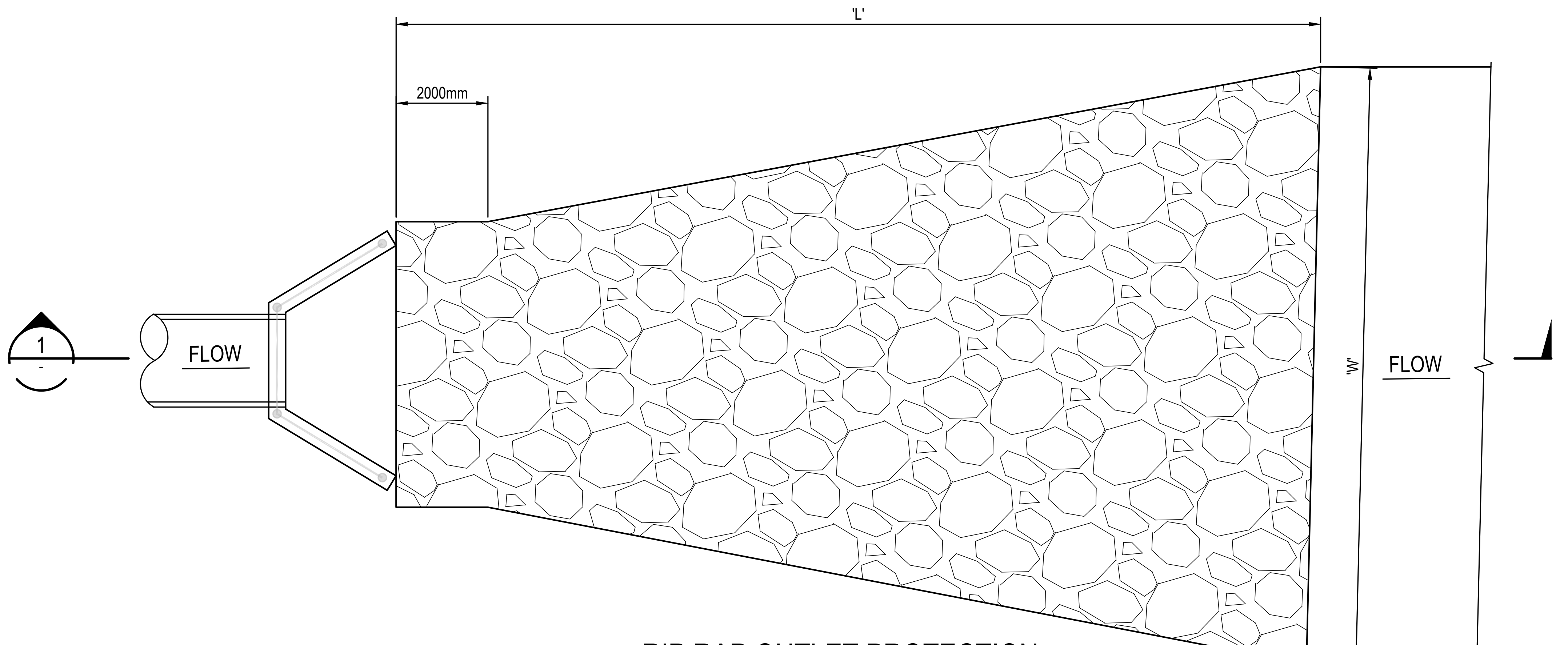
TRUNK DRAINAGE LOW FLOW CHANNEL DETAIL

SCALE 1:25



TRUNK DRAINAGE SANDSTONE LOG WEIR DETAIL

SCALE 1:25



RIP RAP OUTLET PROTECTION TYPE 1 DETAIL

1 : 100

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales
0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3
0 0.5 1 1.5 2 2.5m
1 : 25 @ A1 1 : 50 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

Client
ICON OCEANIA

Scales AS SHOWN
Grid GDA 2020
Height Datum AHD

GDA2020

Drawn ASD
Designed ASD
Checked MM
Approved

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER
DETAILS SHEET
SHEET 1

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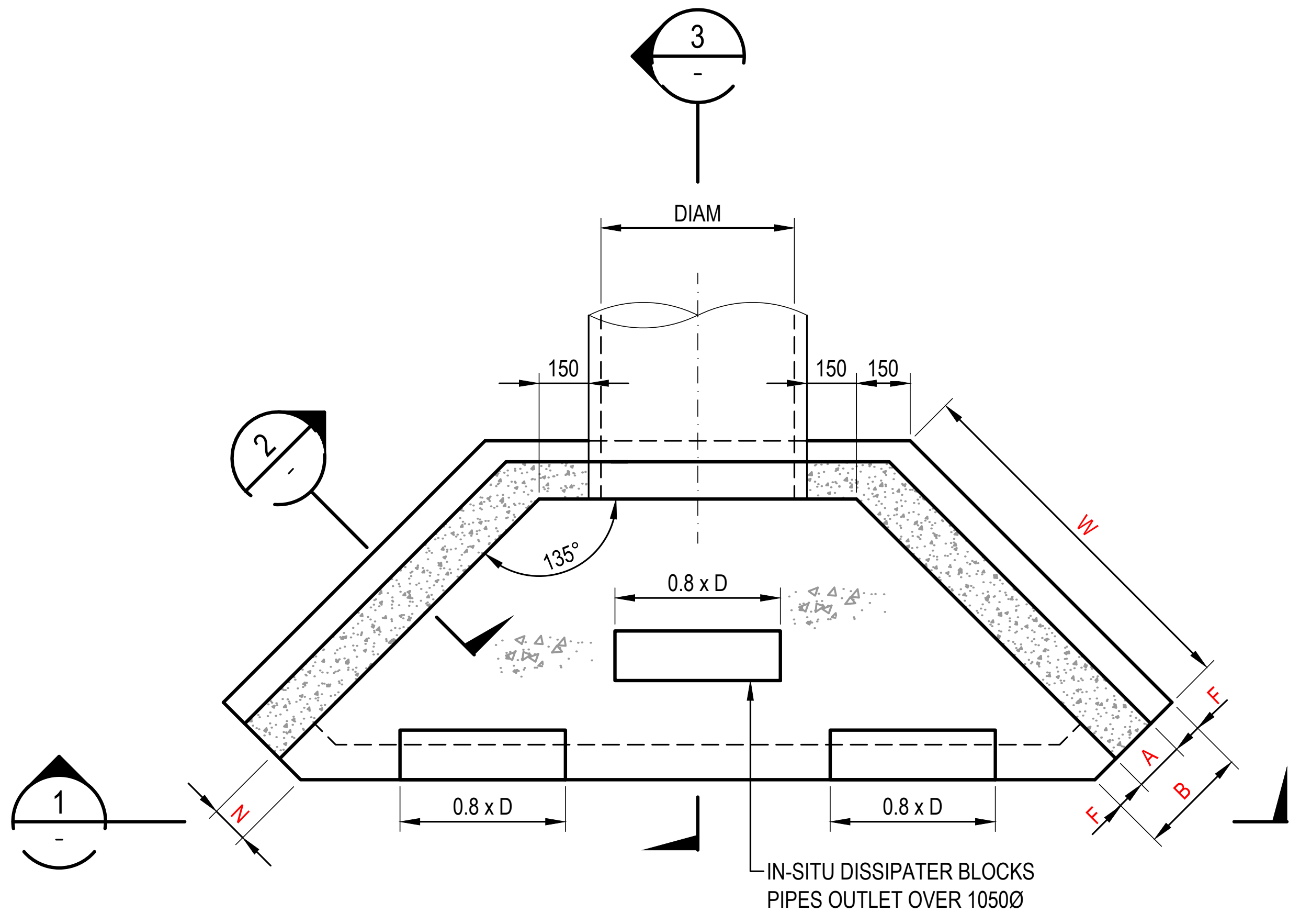
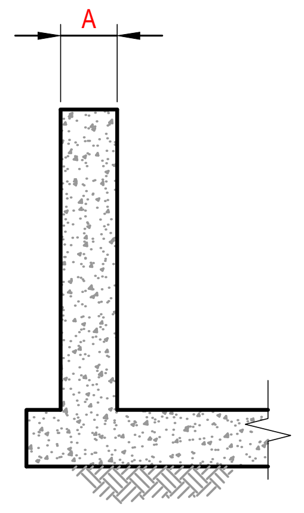
info@atl.net.au

Status FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C2055
Issue D



HEADWALL PLAN

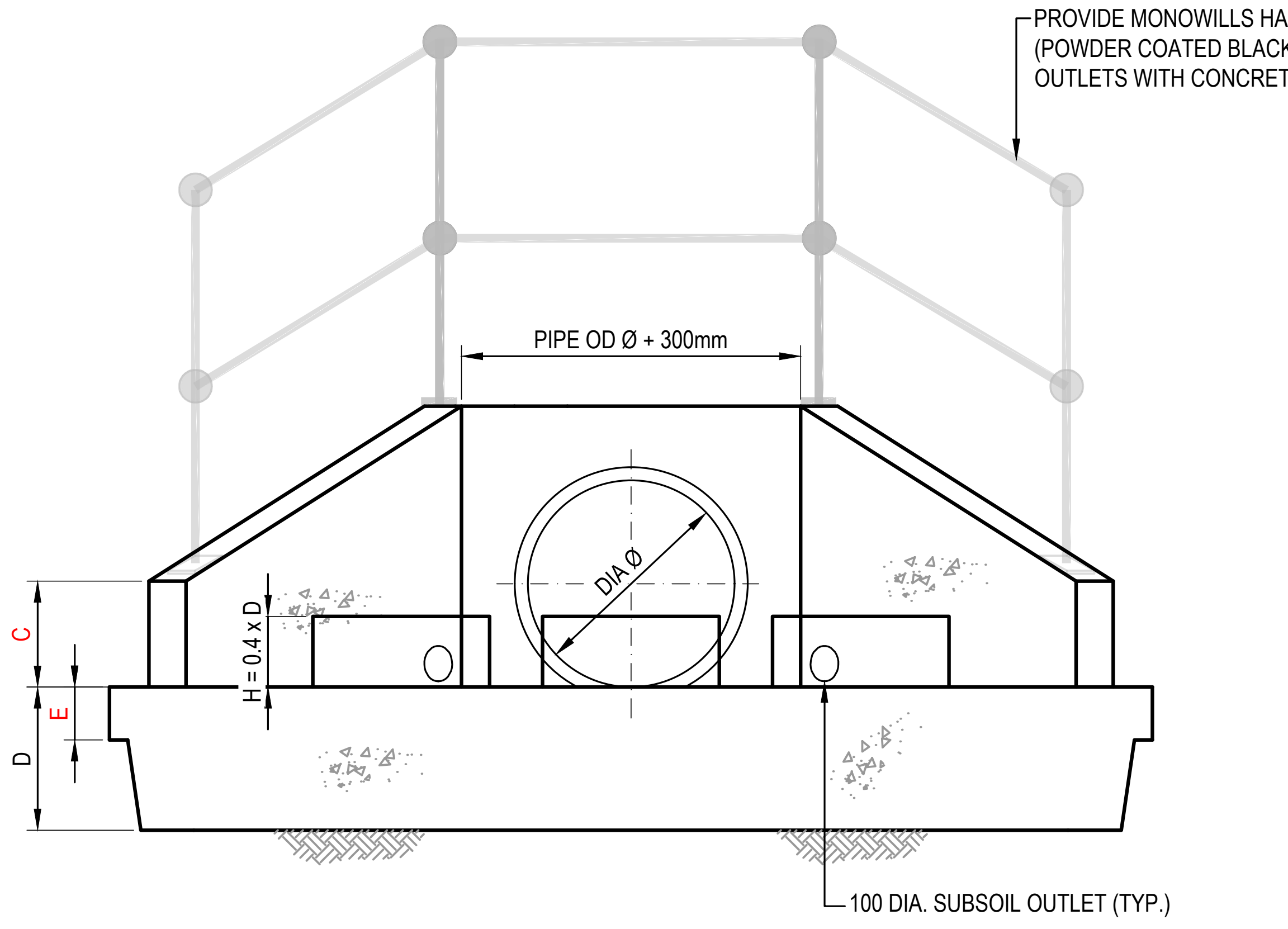


SECTION 2
-
SCALE 1 : 20

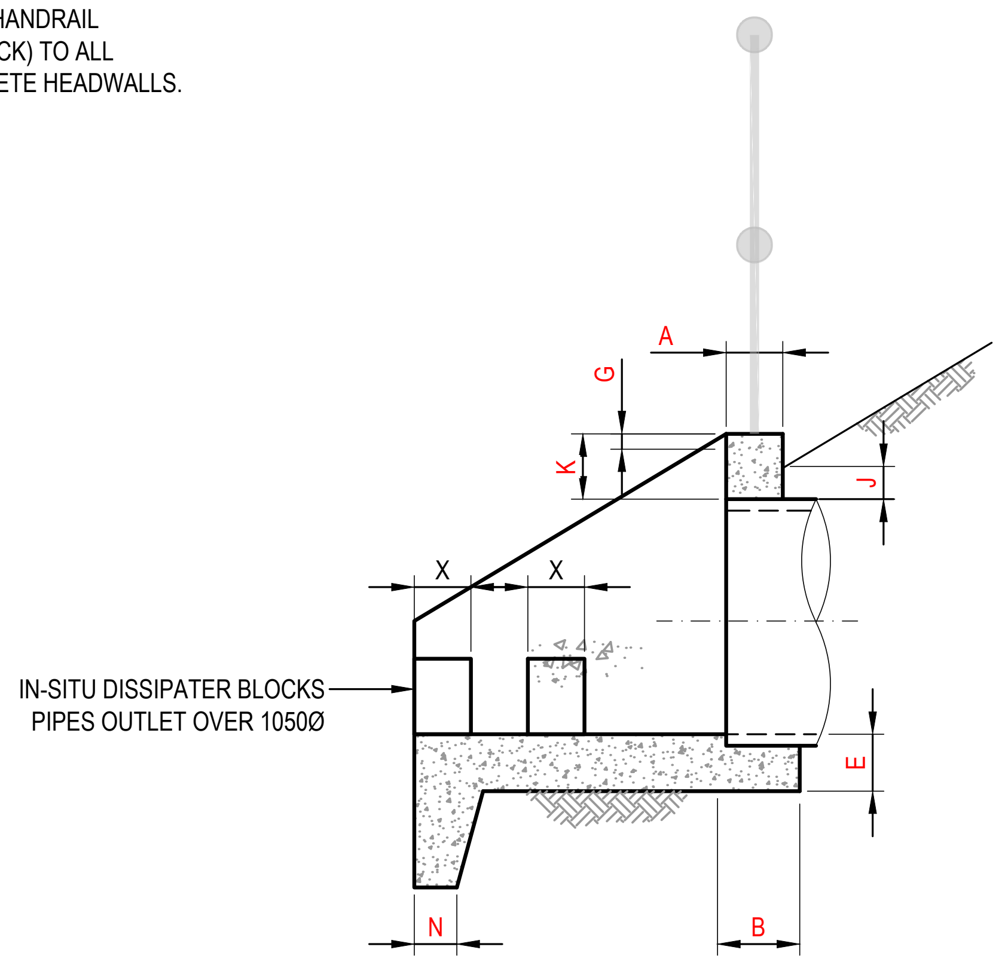
HEADWALL TYPE - SINGLE PIPE

PIPE DIAMETER	300	375	450	525	600	675	750	825	900	1050	1200	1350	1500	1650	1800
A	150	150	150	175	175	175	200	200	225	225	225	250	250	250	250
B	300	300	300	375	375	375	450	450	525	525	525	550	550	550	550
C	300	300	300	300	350	350	350	350	350	350	350	350	350	350	350
D	375	375	375	375	530	530	530	530	530	530	530	530	530	530	530
E	150	150	150	150	175	175	200	200	225	225	225	225	225	225	225
F	75	75	75	100	100	100	125	125	150	150	150	150	150	150	150
G	40	40	40	40	50	50	50	50	50	50	50	50	50	50	50
J	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
K	200	200	200	200	300	300	300	300	300	300	300	300	300	300	300
N	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
W	700	700	850	1000	1100	1300	1450	1600	1750	1950	2200	2500	2700	2800	2900
M	1100	1200	1300	1400	1450	1500	1600	1650	1750	1900	2100	2250	2400	2500	2600
X	150	150	150	150	150	150	150	150	150	200	200	200	250	250	250

NOTES
- COMPRESSIVE STRENGTH (Fc) FOR CAST-IN-SITU CONCRETE TO BE A MINIMUM OF 32MPa AT 28 DAYS.
- 25mm CHAMFER ON ALL EXPOSED SURFACES.
- CONTRACTOR TO DESIGN AND PROVIDE STRUCTURAL CERTIFICATE FOR ALL PITS / END STRUCTURES.



SECTION 1
-
SCALE 1 : 20



SECTION 3
-
SCALE 1 : 20

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales
0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3
0 0.5 1 1.5 2 2.5m
1 : 25 @ A1 1 : 50 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

Client
ICON
OCEANIA

Scales	AS SHOWN
Grid	GDA 2020
Height Datum	AHD
Drawn	ASD
Designed	ASD
Checked	MM
Approved	

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER
DETAILS SHEET
SHEET 2

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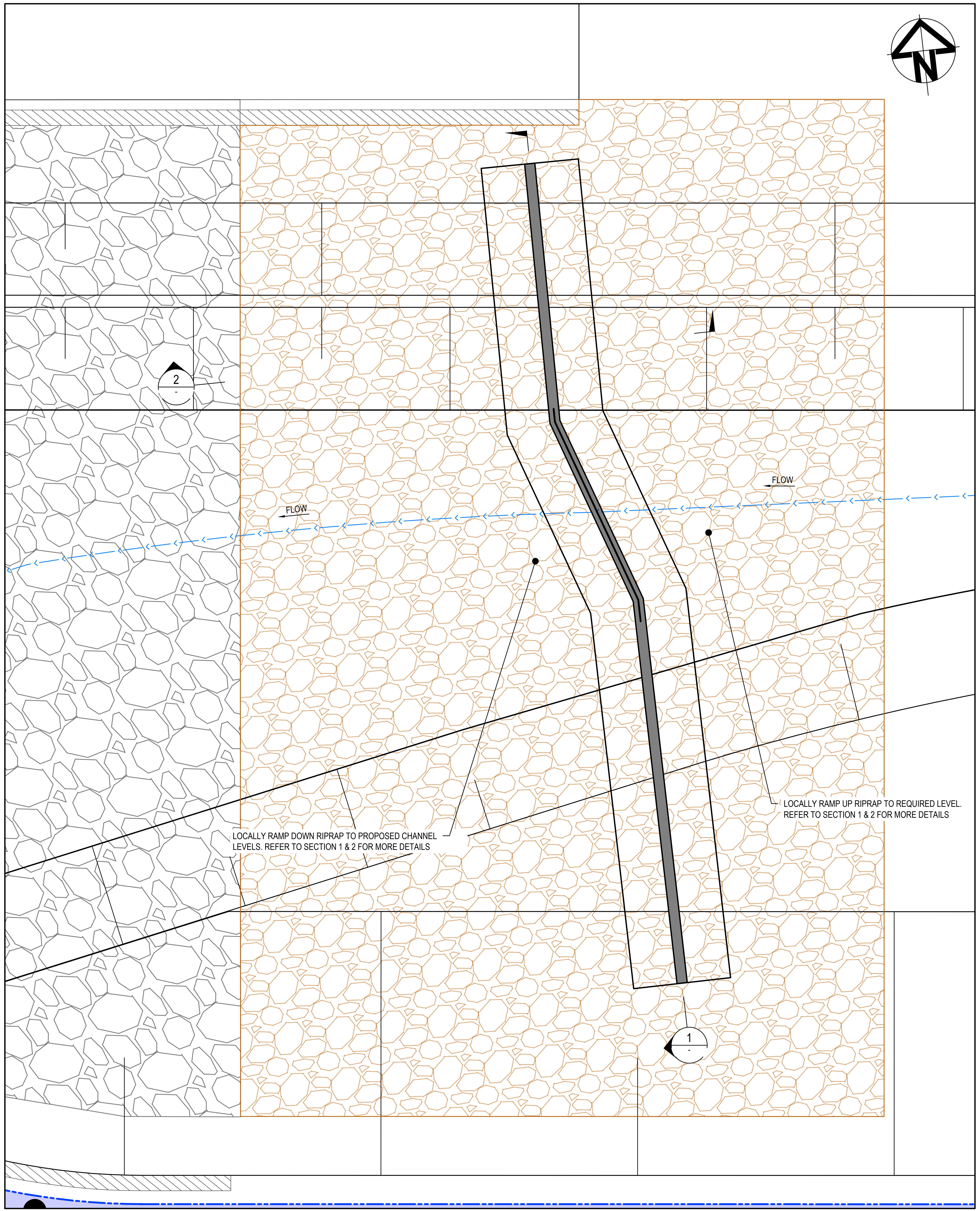
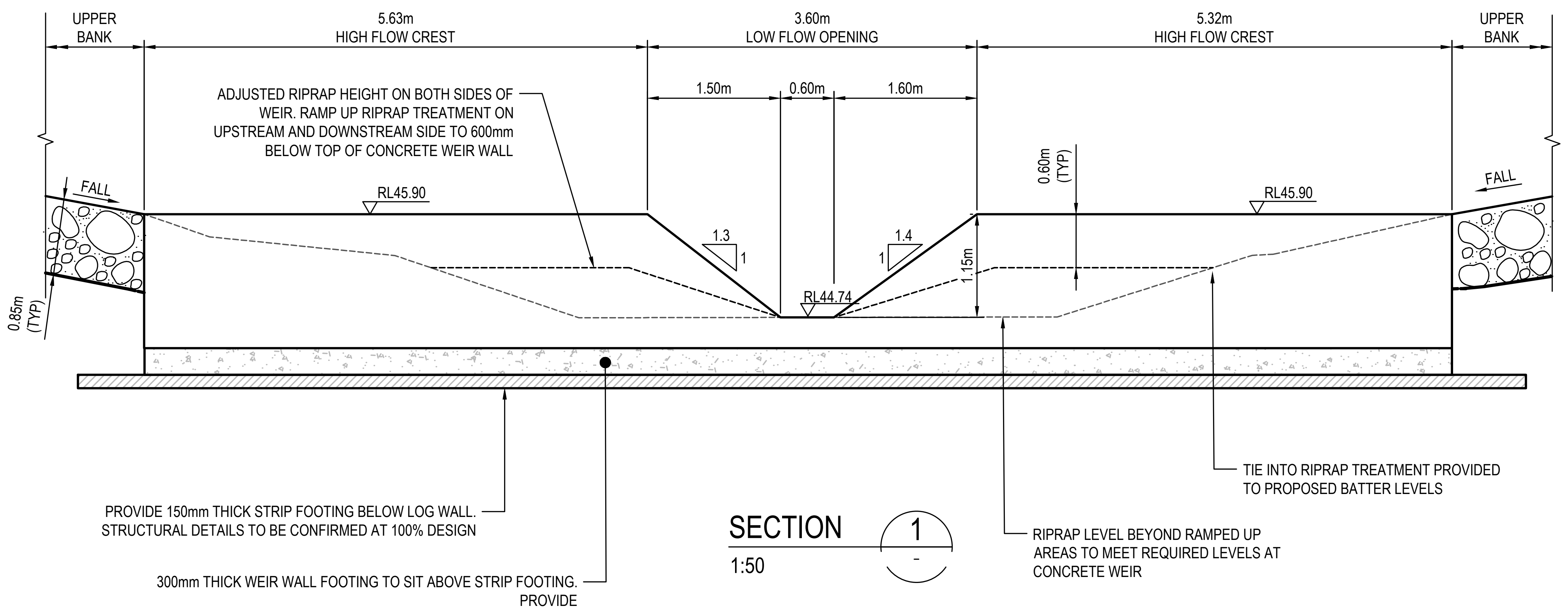
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2056

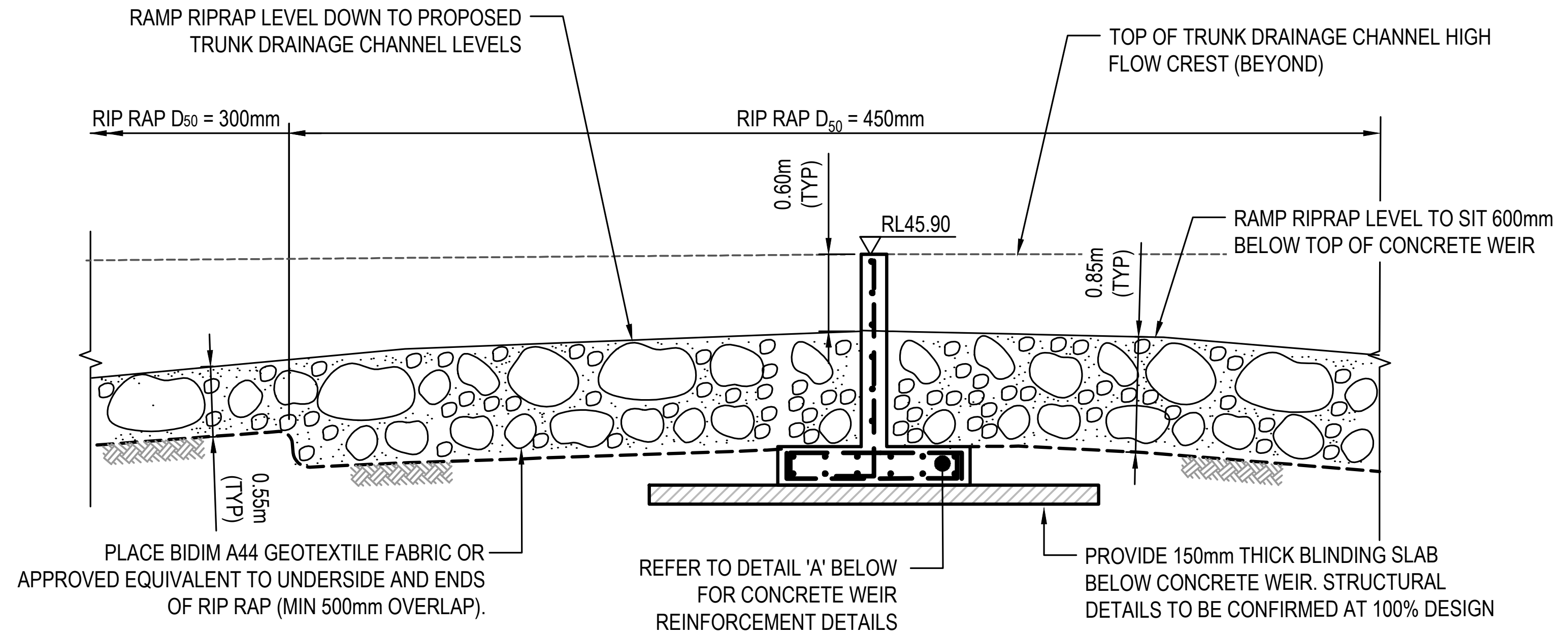
Issue
D



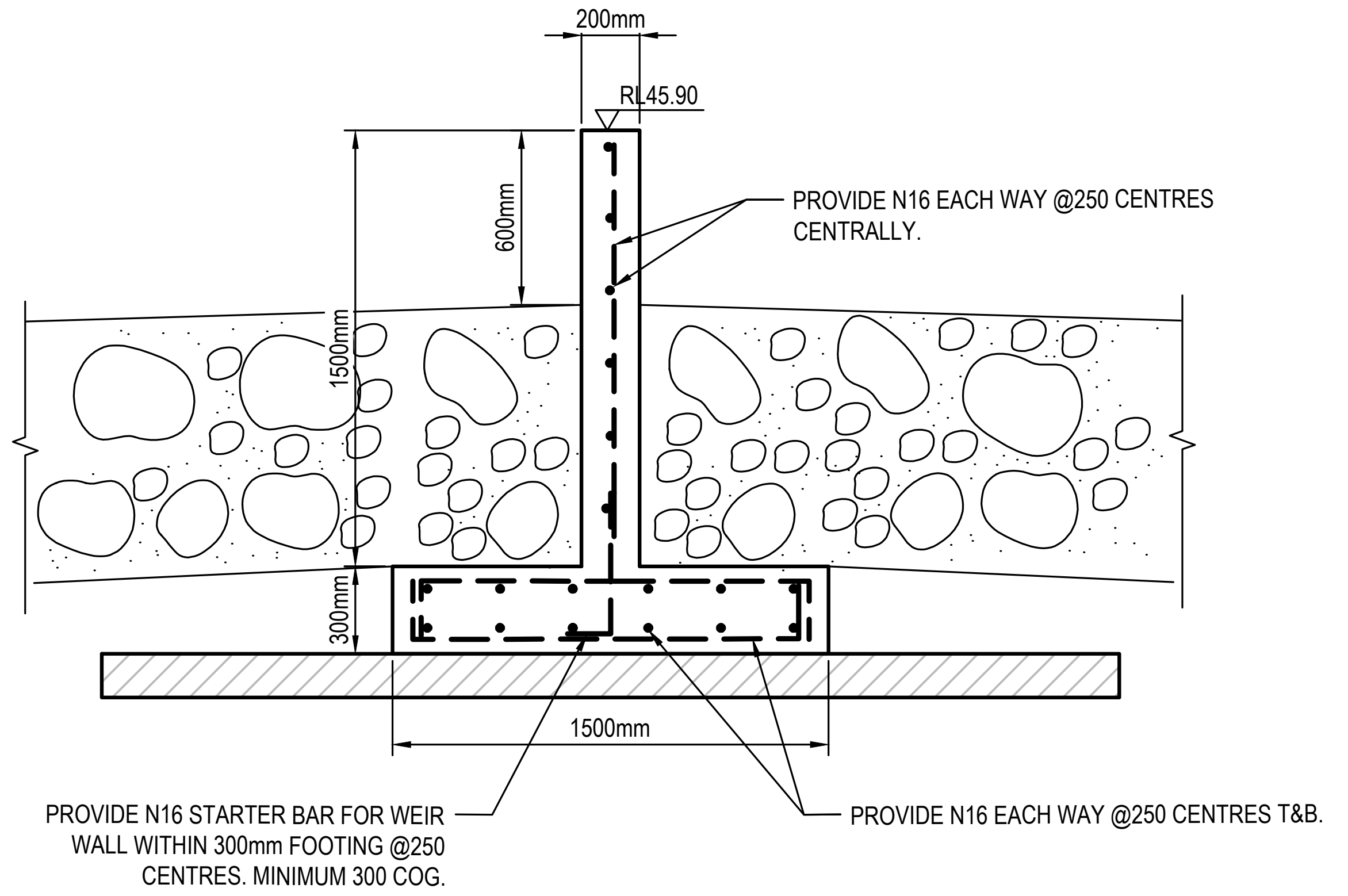
PLAN
SCALE 1:50



SECTION 1
1:50



SECTION 2
1:50



DETAIL 'A'
1 : 25

Issue	Description	Date
B	ISSUED FOR FOR APPROVAL	28-07-25
A	ISSUED FOR 90% DESIGN	04-07-25

100mm on Original

Bar Scales
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

Client
ICON OCEANIA

Scales	1 : 50	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
STORMWATER
DETAILS SHEET
SHEET 3

Civil Engineers and Project Managers
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

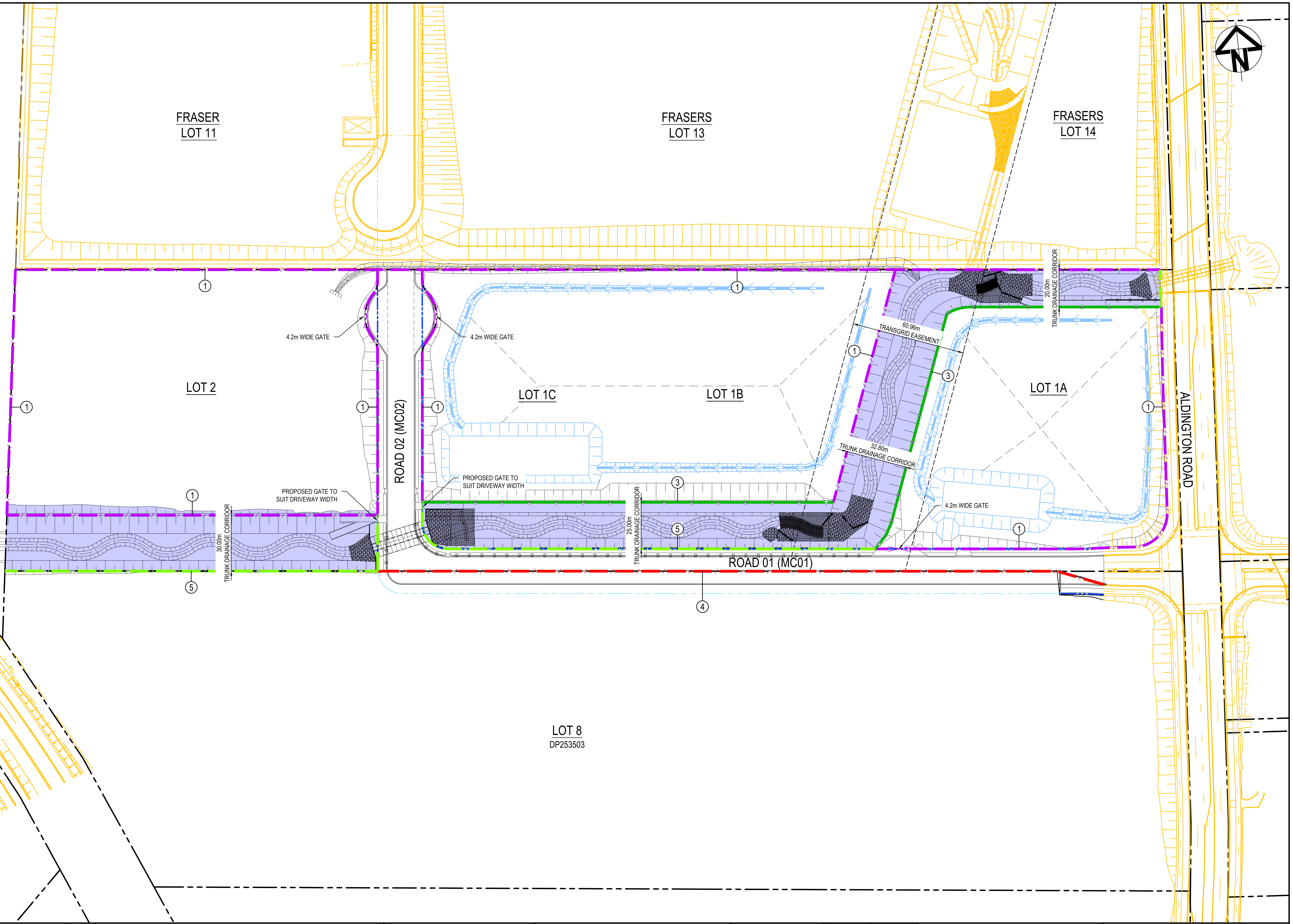
Project - Drawing No.
21-860-C2057
Issue
B

FENCING LEGEND

▬ ▬ ▬	PROPOSED BOUNDARY
▬ / ▬	FENCE TYPE 1 TEMPORARY GALVANISED CHAINWIRE FENCE 1800 HIGH. REFER DWG C2061 FOR DETAIL
▬ / ▬	FENCE TYPE 2 TYPE 2 PLUS 3 BARBED WIRE TOTAL 2100 HIGH. REFER DWG C2061 FOR DETAIL
▬○▬	FENCE TYPE 3 POOL STYLE BLACK POWDER COATED FENCE (SUITABLE AS BALUSTRADE). REFER DWG C2063 FOR DETAIL
▬ / ▬	FENCE TYPE 4 BARRIER FENCE FIXED TO TEMPORARY BARRIER. FENCE TYPE TO BE CONFIRMED
▬ / ▬	FENCE TYPE 5 BLACK POWDER COATED PALISADE FENCE 2100 HIGH. REFER DRG C2062 FOR DETAIL

NOTE

1. FENCES TO BE LOCATED ON BOUNDARIES. IF IN DOUBT THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT FOR CONFIRMATION.
2. FENCES AND GATES THAT CROSS OR ARE ASIDE TRANSGRID EASEMENT TO BE EARTHED AND ISOLATED IN ACCORDANCE WITH TRANSGRID GUIDELINES



Issue	Description	Date
B	ISSUED FOR APPROVAL	02-09-25
A	ISSUED FOR APPROVAL	28-07-25

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client

ICON
OCEANIA

Scales	1 : 1000	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
FENCING PLAN

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

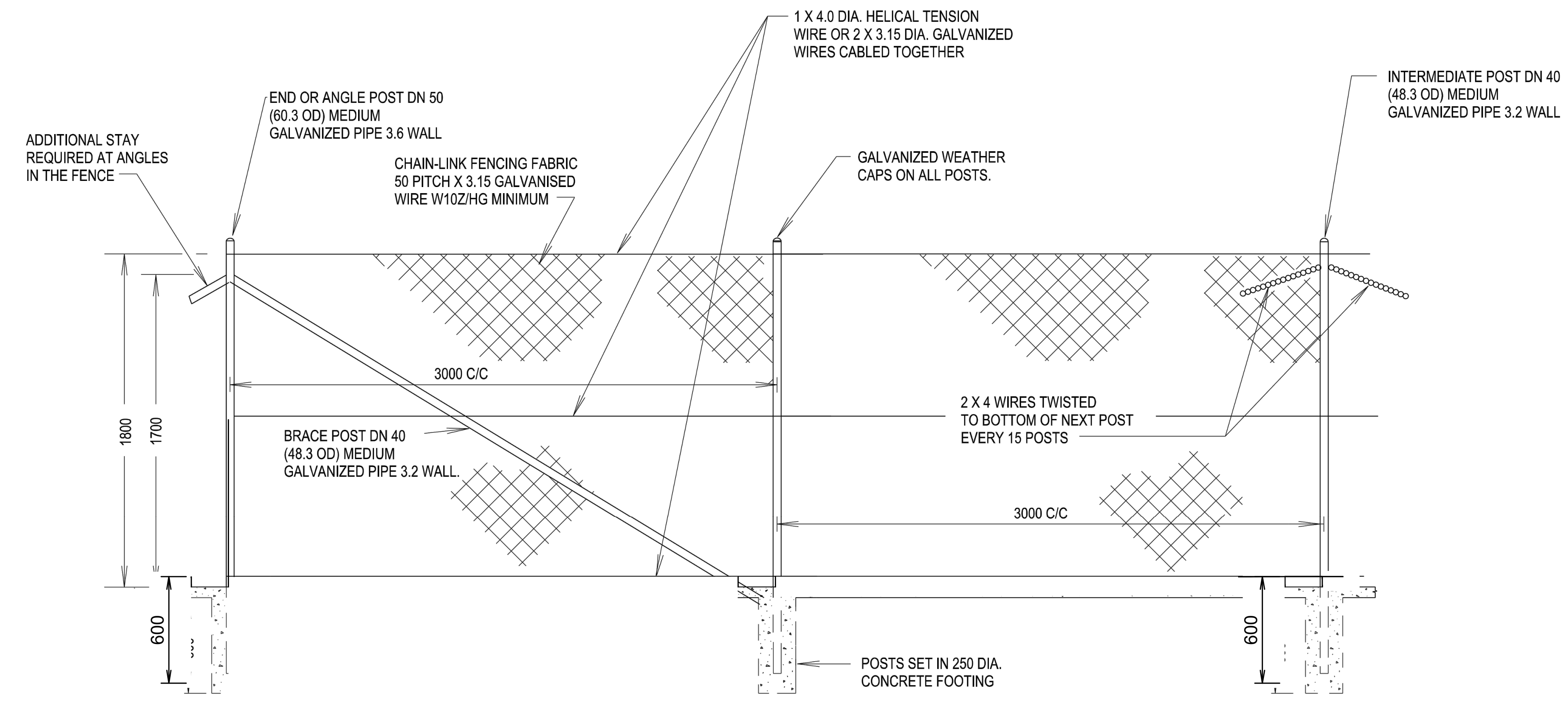
A1

Project - Drawing No.
21-860-C2060

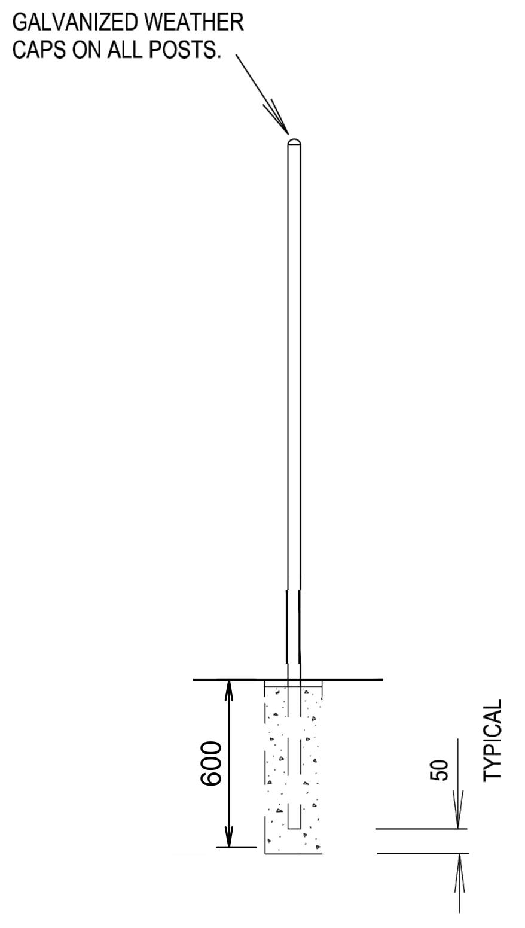
Issue
B

100mm on Original

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\2000_TRUNK DRAINAGE\21-860-C2060.dwg



FENCE PANEL



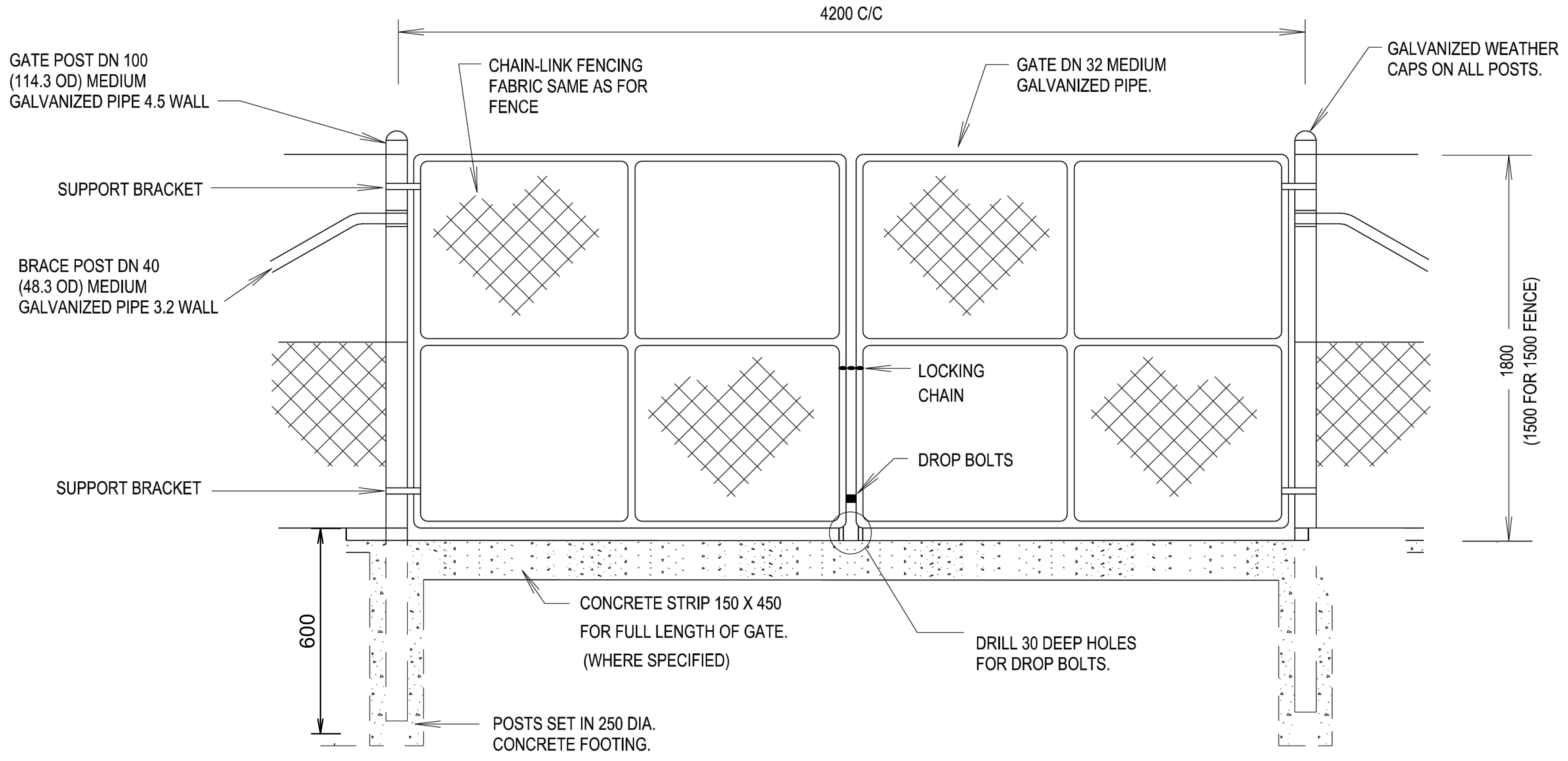
SECTION THROUGH INTERMEDIATE POST

900 x 600 SIGN FOR ALL GATES

NTS

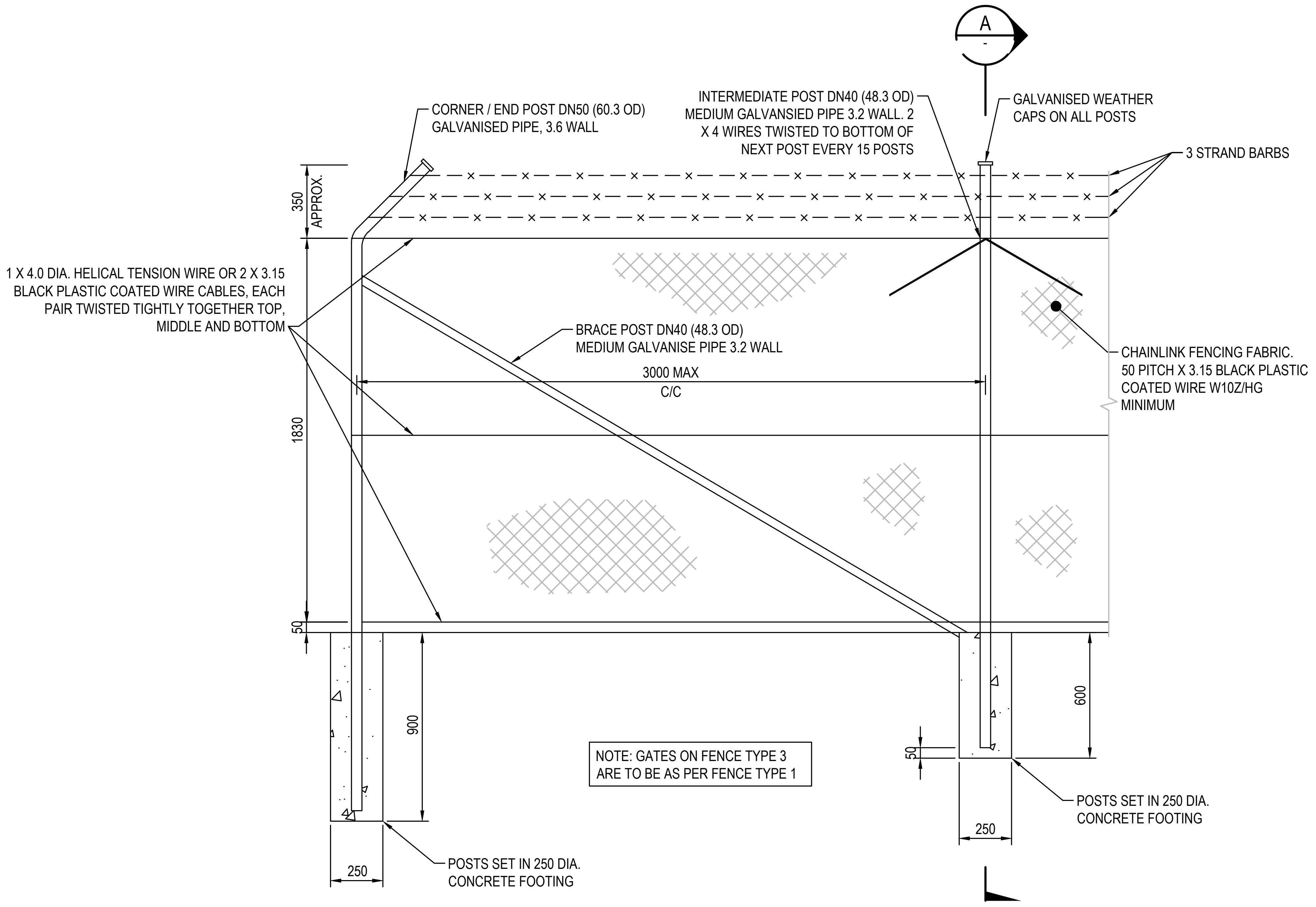
NOTES:

1. ALL CONCRETE TO BE 20 MPa.
2. JOINTS TO BE WELDED AND PAINTED WITH ZINC RICH PRIMER.
3. FENCING MATERIALS ARE TO BE IN ACCORDANCE WITH THE SPECIFICATION - R201.
4. BOUNDARY SIGNS TO BE SUPPLIED AND FIXED AS SHOWN ON DS2014/005992.
5. SPECIAL REQUIREMENTS MAY APPLY TO THE ERECTION PROCEDURES FOR FENCES INSTALLED NEAR HIGH VOLTAGE TRANSMISSION LINES. THE RELEVANT ELECTRICITY AUTHORITY SHOULD BE CONTACTED PRIOR TO THE INSTALLATION OF THE FENCE.



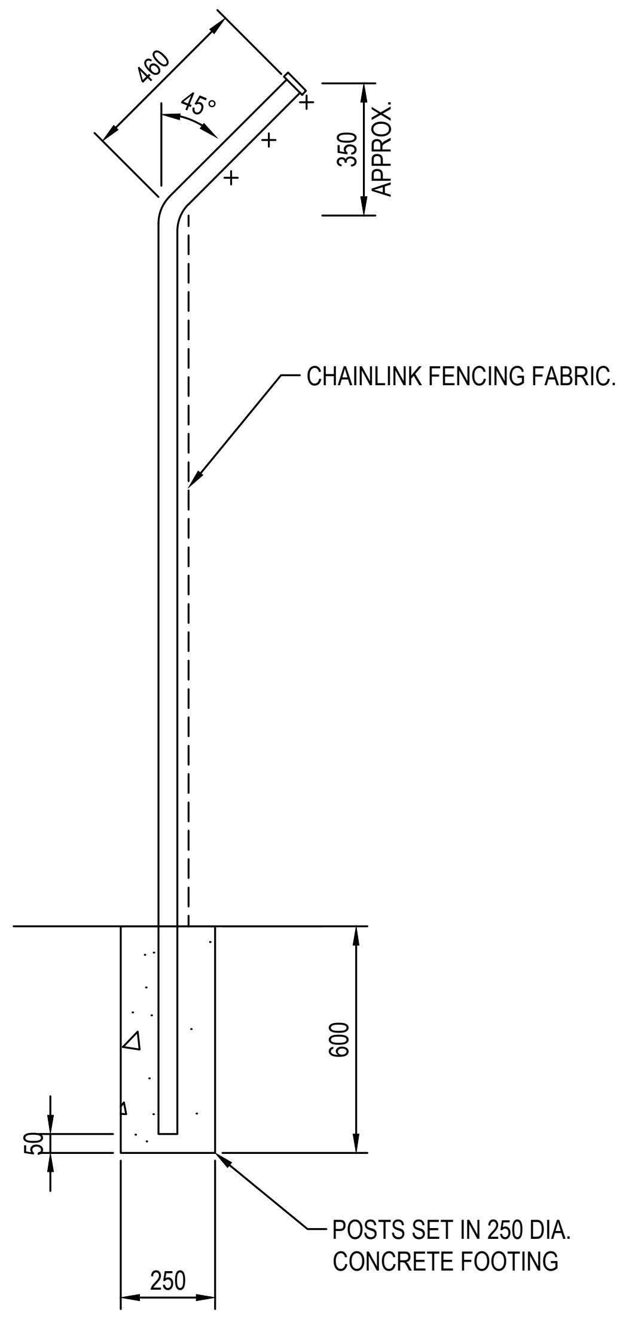
1800 HIGH CHAINWIRE GALVANISED FENCE
FENCE TYPE 1

NTS



FENCE TYPE 2
PLASTIC COATED CHAINWIRE BOUNDARY FENCE

1 : 20



DETAIL A

1 : 20

Issue	Description	Date
A	ISSUED FOR FOR APPROVAL	28-07-25

Bar Scales

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

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Client

ICON OCEANIA

Scales	NTS	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
FENCING DETAILS
PLAN
SHEET 1

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C2061
Issue A

100mm on Original

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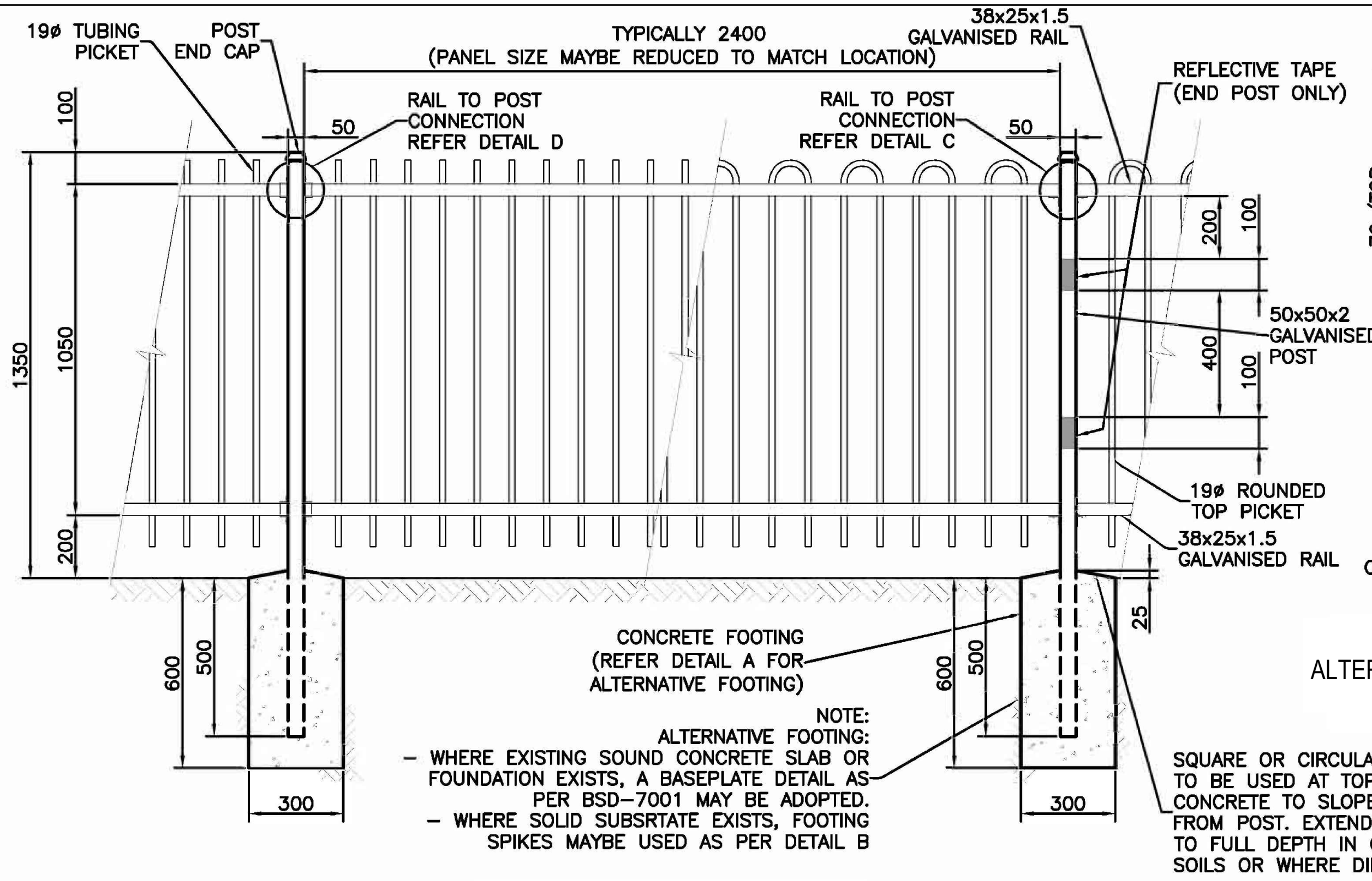
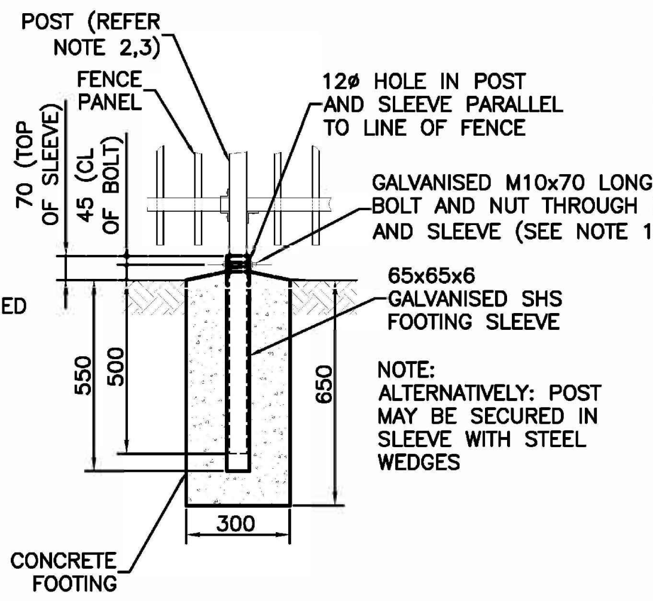


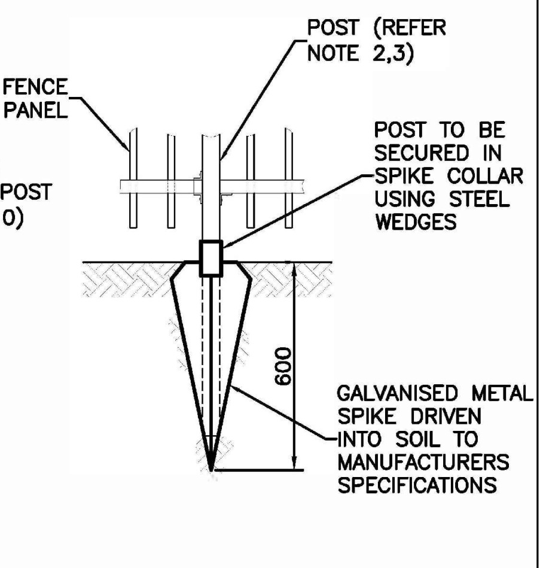
TYPICAL SECTION

NTS

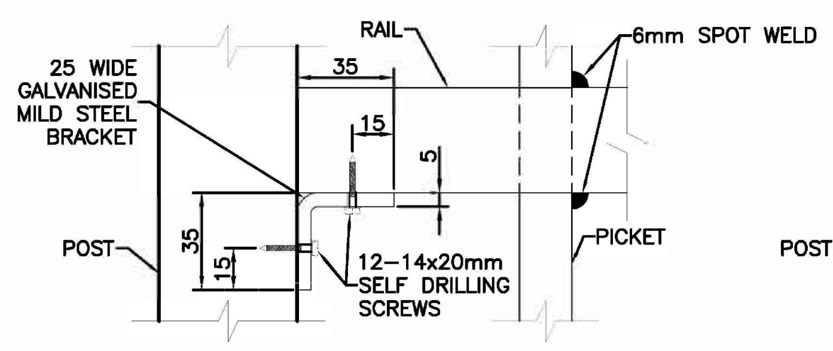


DETAIL A

ALTERNATIVE FOOTING DETAIL FOOTING SLEEVE
NTS

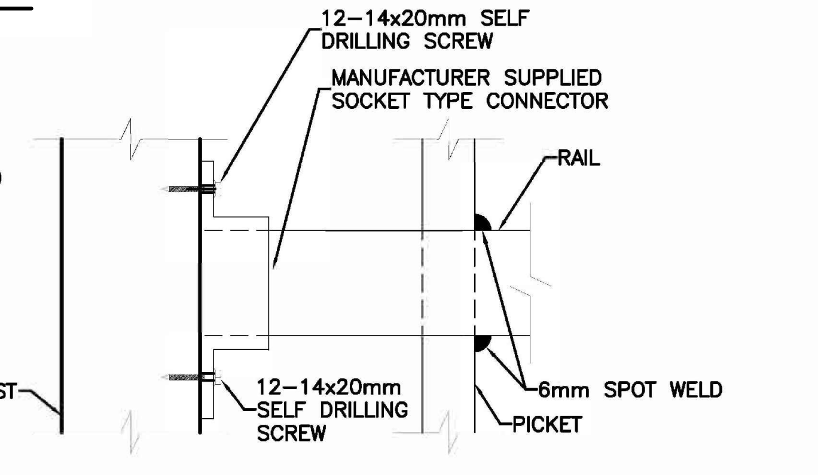


DETAIL B



DETAIL C

RAIL TO POST CONNECTION OPTION 1
NTS



DETAIL D

RAIL TO POST CONNECTION OPTION 2
NTS

NOTES:

1. THIS STANDARD IS NOT FOR USE IN A MARINE ENVIRONMENT. THE MARINE ENVIRONMENT COULD EXTEND UP TO 1 km FROM THE FORESHORE.
2. GATE, END AND INTERMEDIATE POSTS TO BE 50x50x2 GALVANISED STEEL SECTION TO AS 1163.
3. FENCE RAILS TO BE 38x25x1.5 GALVANISED STEEL SECTION TO AS 1163.
4. PANELS TO BE FIXED TO POSTS USING MANUFACTURER SUPPLIED SOCKET CONNECTORS OR 25 WIDE 35x35x2 GALVANISED MILD STEEL 'L' BRACKETS. BOTH CONNECTORS TO BE ATTACHED WITH GALVANISED 12-14x20mm HEXAGON HEAD SELF DRILLING (TEK) SCREWS.
5. PANELS TO BE 2400x1050 WITH 19 DIAMETER PICKETS, EITHER STRAIGHT TUBULAR OR ROUNDED TOP STYLE.
6. PICKETS TO PASS THROUGH TOP AND BOTTOM RAIL AND BE SECURED TO TOP AND UNDERSIDE OF RAIL WITH 6mm SPOT WELD.
7. HOT DIP GALVANISING: FERROUS OPEN SECTIONS TO AS 4791, FERROUS HOLLOW SECTIONS TO AS 4792.
8. ALL CONCRETE TO BE GRADE N25.
9. POSTS ARE TO BE VERTICAL.
10. POST SPIKES, WHERE USED, ARE TO BE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
11. WHERE SLEEVES OR POST SPIKES ARE USED, POSTS ARE TO BE SECURED WITH BOLTS AS SHOWN OR STEEL WEDGES.
12. NUTS (WHERE USED) TO BE SPOT WELDED TO BOLTS AS AN ANTI-THEFT DETERRENT.
13. RAKED PANELS ARE AVAILABLE FOR SLOPES UP TO 1 IN 5.
14. THESE FENCES ARE INTENDED AS A PEDESTRIAN BARRIER AND ARE NOT TO BE USED IN SITUATIONS WHERE MOTOR VEHICLES REQUIRE RESTRAINT.
15. STEEL WORK TO BE POWDER COATED TO AS 4506 TO MATCH COLOUR CO-ORDINATION IN THE AREA. COLOUR FOR TRAFFIC APPLICATIONS TO BE EITHER BCC CORPORATE COLOUR PALETTE "GREY 3" (AS 2700-1996 "N65 GRAPHITE GREY" EQUIV.), "BLUE 3" (AS 2700S-1996 "B62 MIDNIGHT BLUE" EQUIV.), "GREEN 1" (AS 2700-1996 "G12 HOLLY" EQUIV.) OR BLACK (AS 2700-1996 "N61 BLACK" EQUIV.).
16. 100mm WIDE REFLECTIVE TAPE TO BE APPLIED TO END POSTS WHEREVEHICLE TRAFFIC CONFLICT MAY OCCUR.
17. DIMENSIONS IN MILLIMETRES (UNO).

1350 HIGH GALVANISED STEEL BLACK POWDER COATED POOL STYLE FENCE
FENCE TYPE 3

NTS

Issue	Description	Date
A	ISSUED FOR FOR APPROVAL	28-07-25

Bar Scales

100mm on Original

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Client
ICON
OCEANIA

Scales	NTS	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
FENCING DETAILS
PLAN
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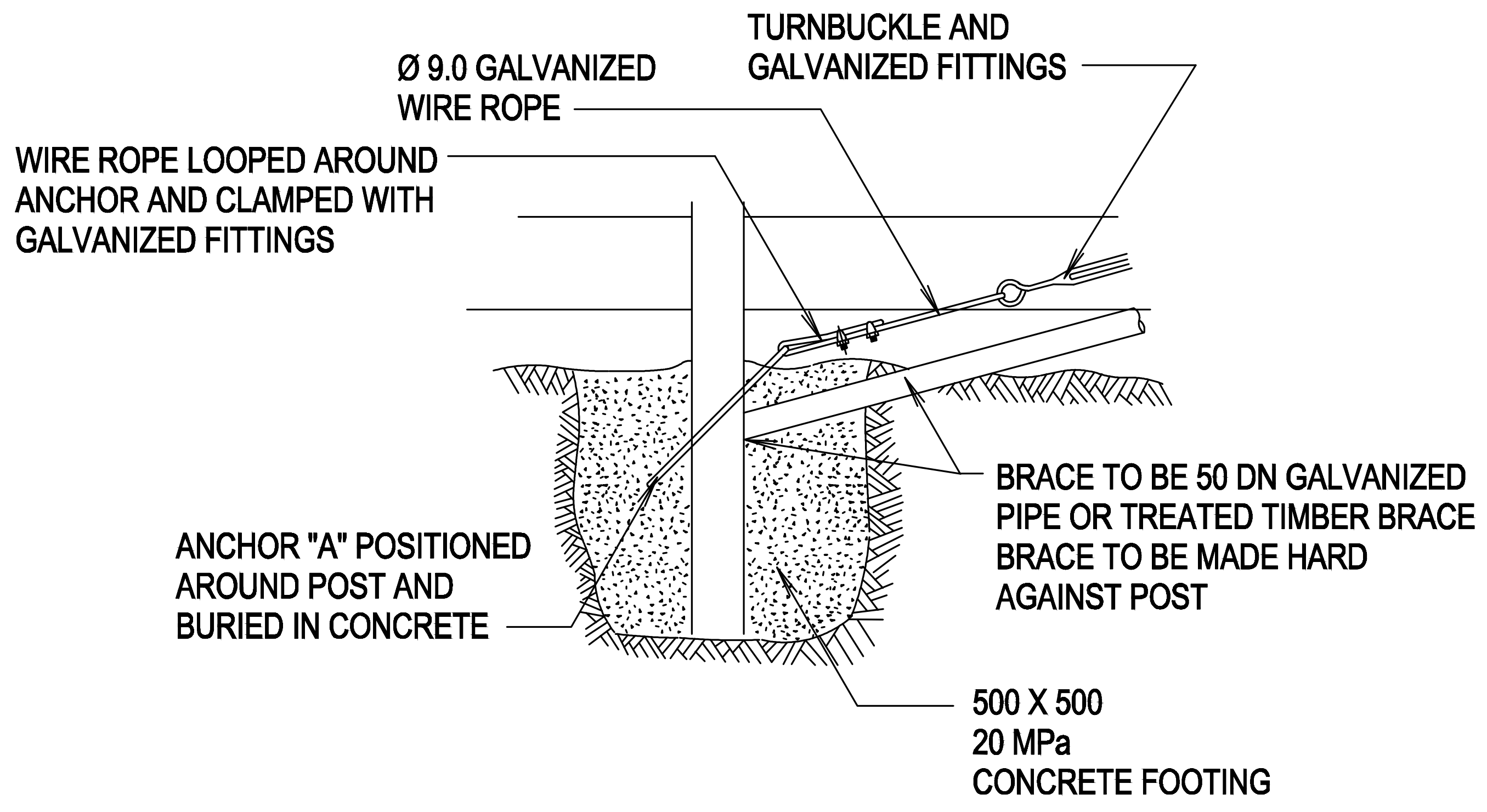
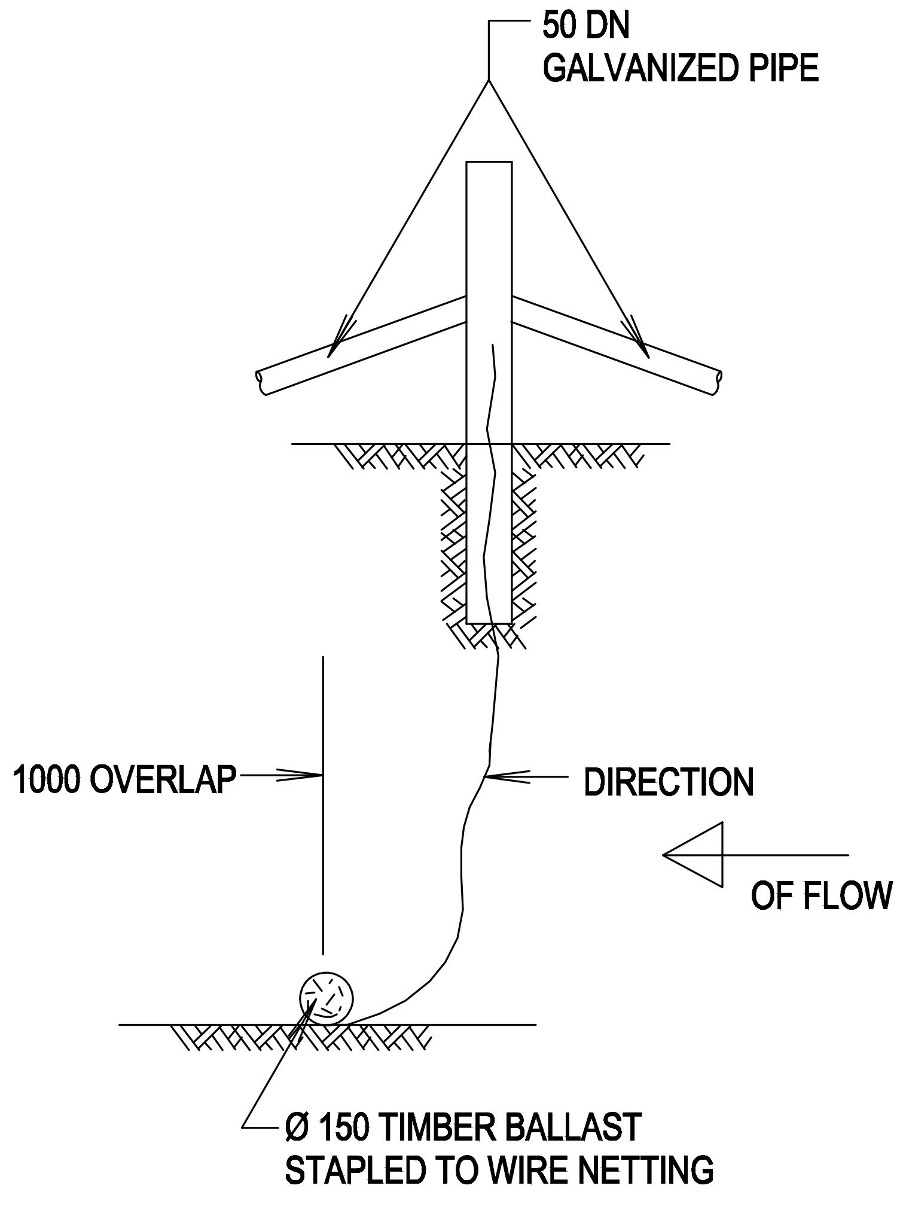
Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C2062
Issue
A

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\2000_TRUNK DRAINAGE\21-860-C2062.dwg

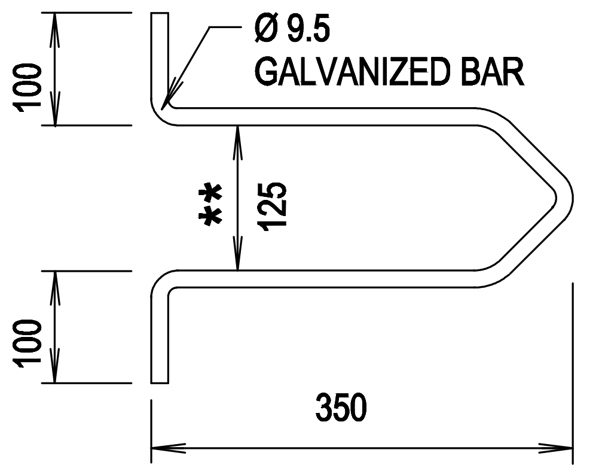


DETAIL OF WIRE ROPE CONNECTION



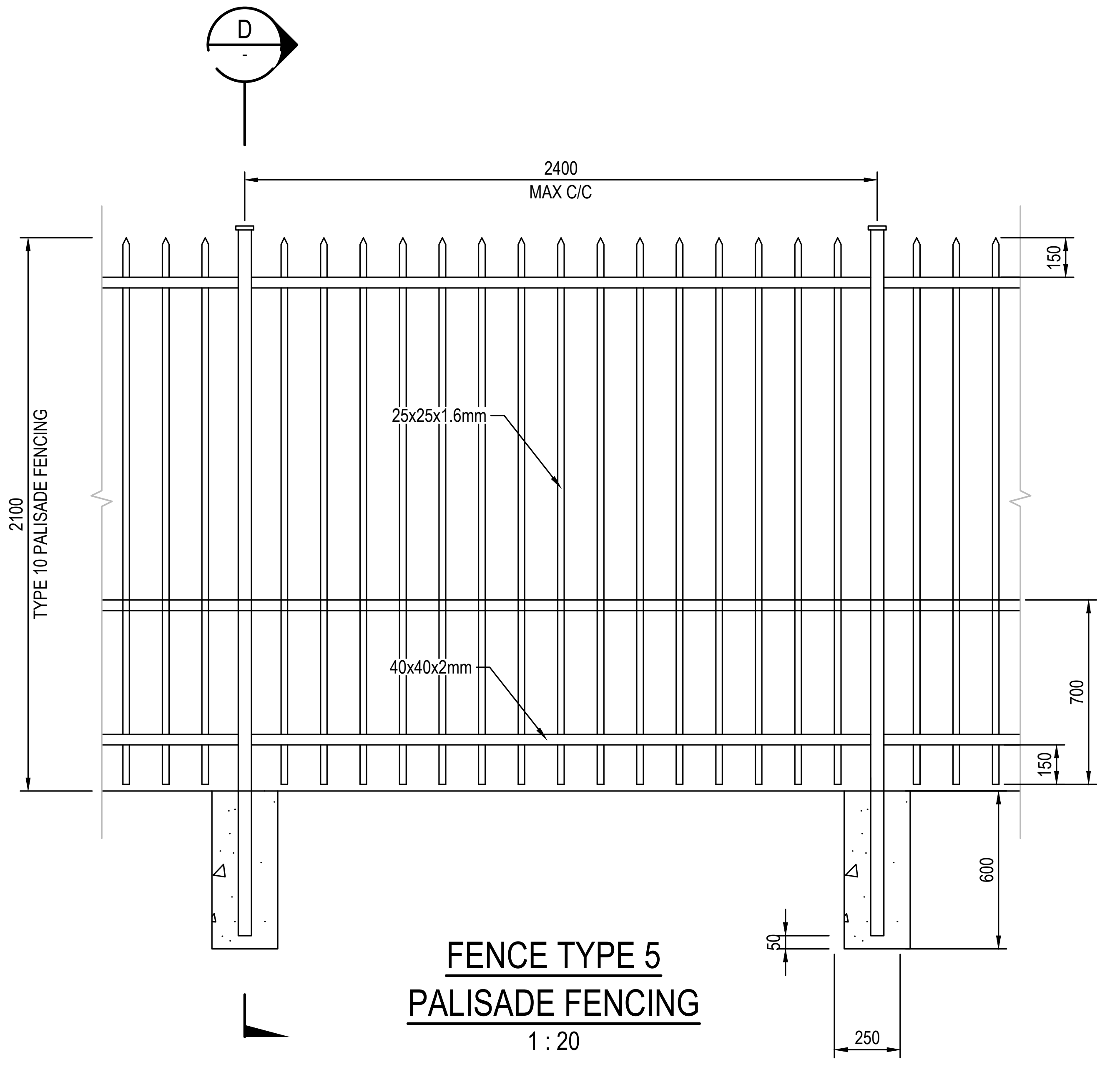
SECTION

NOT TO SCALE



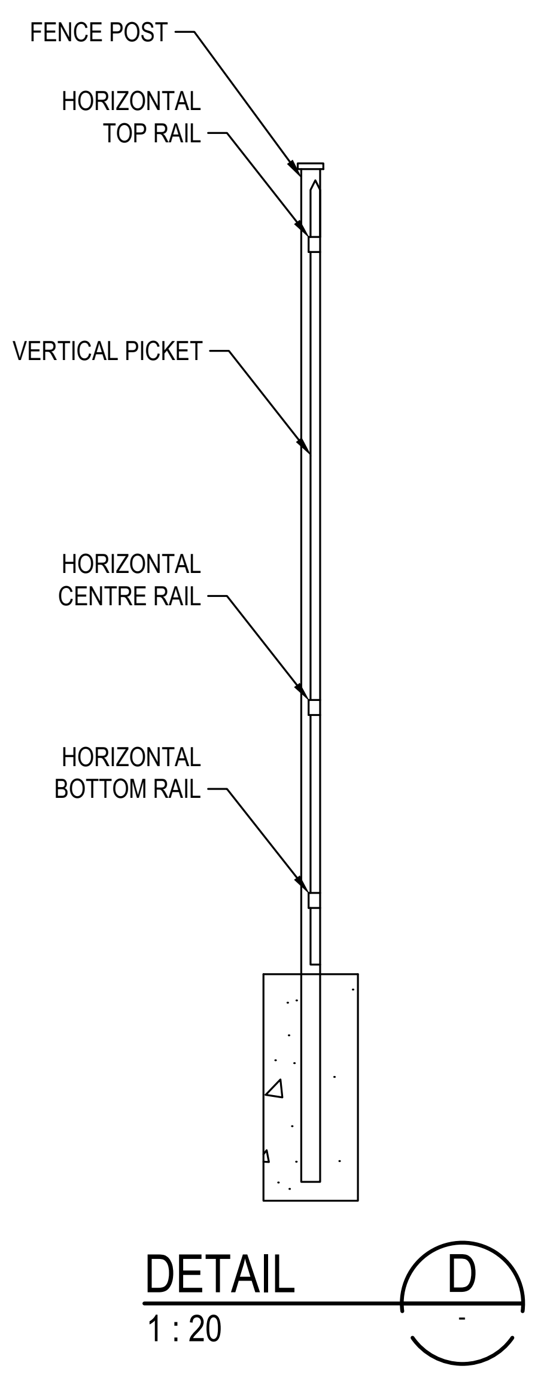
DETAIL OF ANCHOR "A"

** FOR TTI OR HTI POSTS THIS DIMENSION IS 175



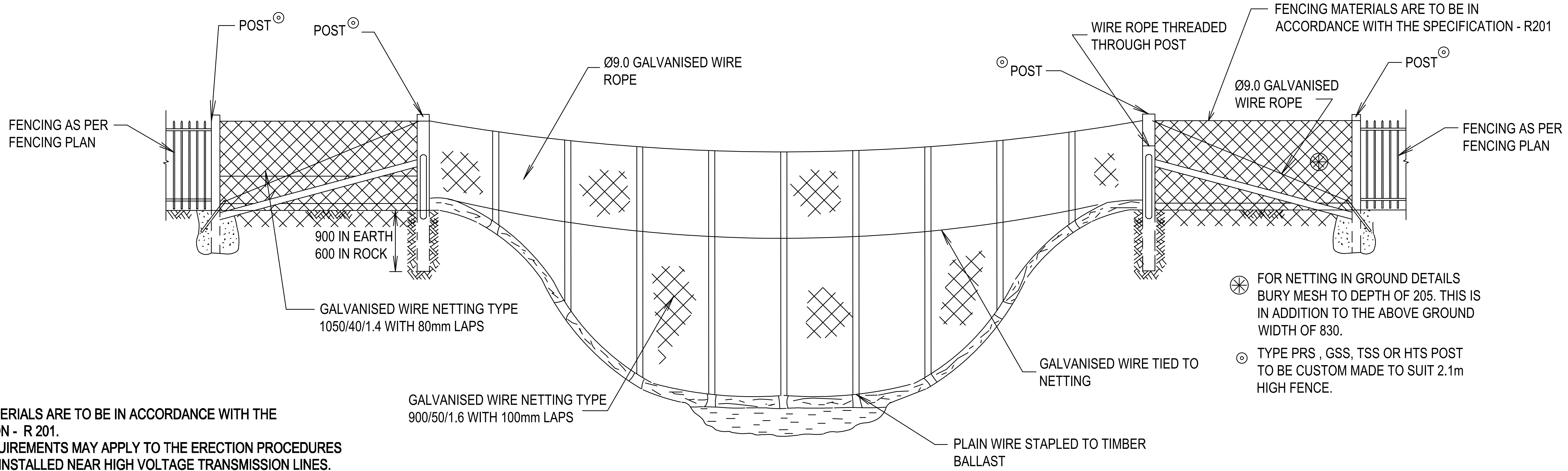
FENCE TYPE 5 PALISADE FENCING

1 : 20



DETAIL D

1 : 20



✳ FOR NETTING IN GROUND DETAILS BURY MESH TO DEPTH OF 205. THIS IS IN ADDITION TO THE ABOVE GROUND WIDTH OF 830.

⊙ TYPE PRS , GSS, TSS OR HTS POST TO BE CUSTOM MADE TO SUIT 2.1m HIGH FENCE.

SWALE CROSSING

NTS

NOTES

1 FENCING MATERIALS ARE TO BE IN ACCORDANCE WITH THE SPECIFICATION - R 201.
2. SPECIAL REQUIREMENTS MAY APPLY TO THE ERECTION PROCEDURES FOR FENCES INSTALLED NEAR HIGH VOLTAGE TRANSMISSION LINES. THE RELEVANT ELECTRICITY AUTHORITY SHOULD BE CONTACTED PRIOR TO THE INSTALLATION OF THE FENCE.

Issue	Description	Date
A	ISSUED FOR FOR APPROVAL	28-07-25

Bar Scales

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

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Client

ICON OCEANIA

Scales	NTS	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title

FENCING DETAILS
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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C2063
Issue A

100mm on Original

Issue	Description	Date
E	ISSUED FOR FOR APPROVAL	02-09-25
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Client

ICON
OCEANIA

Scales	1 : 1000	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project

SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title

RETAINING WALL
GENERAL ARRANGEMENT
PLAN

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

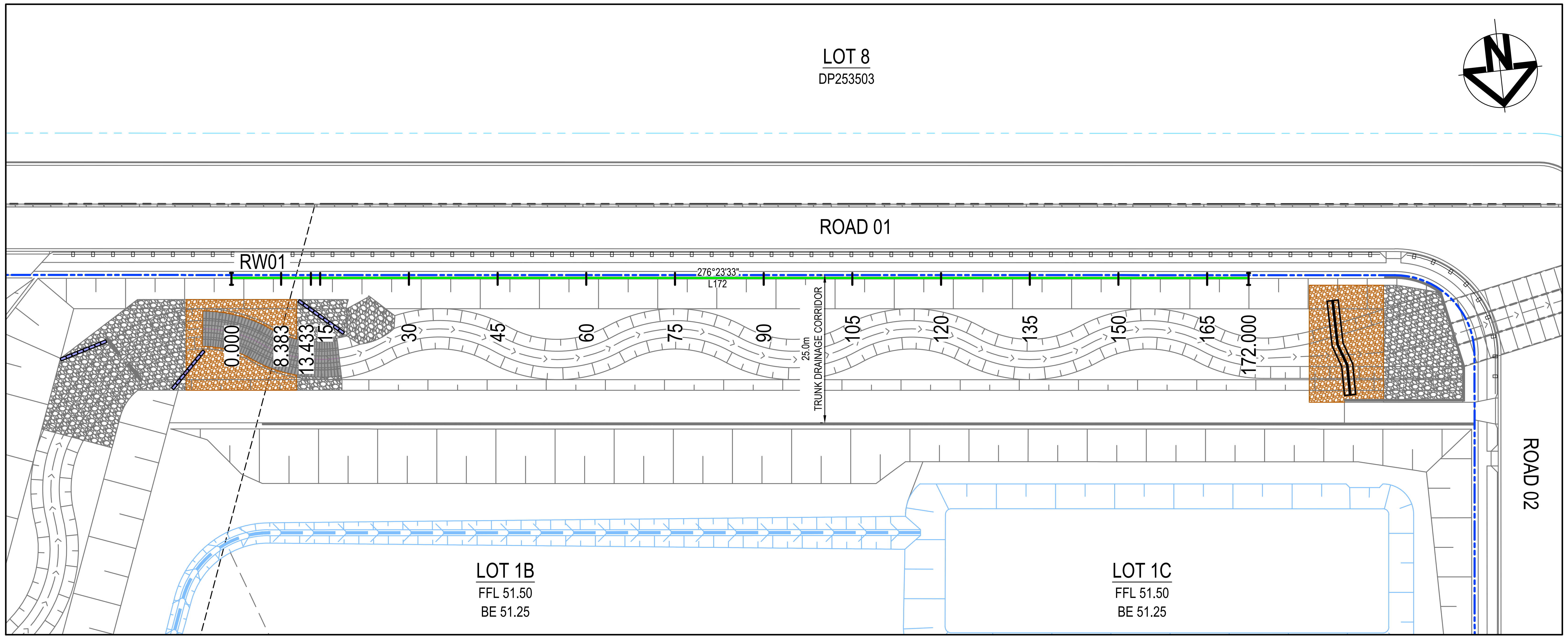
Project - Drawing No.
21-860-C2070

Issue
E

F:\21-860 253-267 Aldington\6.0 Drgs\Civil\Final\CONSTRUCTION PACKAGES\2000_TRUNK DRAINAGE\21-860-C2070.dwg

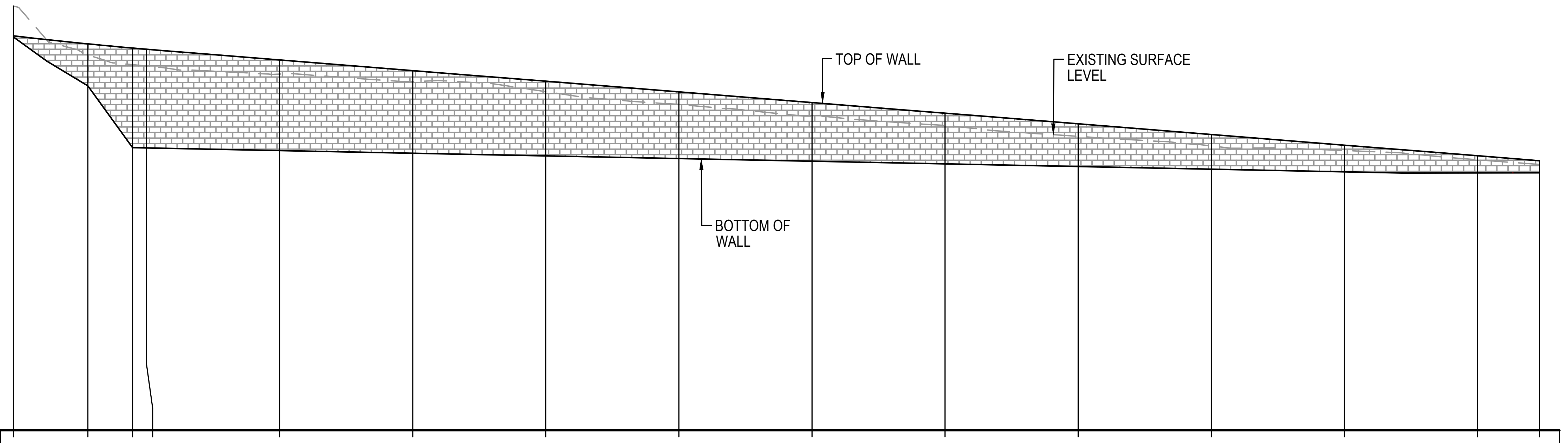
LEGEND

—·—·—	EXISTING BOUNDARY
— — —	PROPOSED BOUNDARY
- - - -	EXISTING EASEMENT
🟩	PROPOSED FILL RETAINING WALL



PLAN

SCALE 1:500



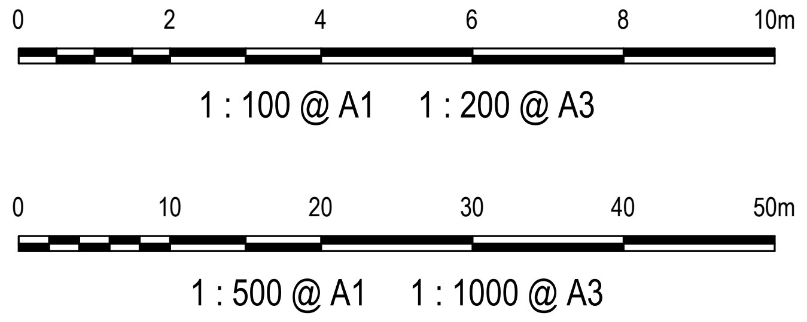
BOTTOM OF RETAINING WALL	49.865	48.765	47.371	47.365	47.305	47.245	47.185	47.125	47.065	47.005	46.945	46.885	46.825	46.802	46.804
TOP OF RETAINING WALL	49.891	49.709	49.615	49.588	49.347	49.107	48.867	48.627	48.387	48.147	47.907	47.667	47.427	47.187	47.075
HEIGHT OF RETAINING WALL	0.026	0.944	2.243	2.223	2.042	1.862	1.682	1.502	1.322	1.142	0.962	0.782	0.602	0.385	0.271
BOTTOM OF WALL EASTING COORDINATES	295866.658	295858.327	295853.308	295851.751	295836.844	295821.937	295807.031	295792.124	295777.217	295762.31	295747.404	295732.497	295717.59	295702.683	295695.727
BOTTOM OF WALL NORTHING COORDINATES	6251912.377	6251913.31	6251913.873	6251914.047	6251915.717	6251917.387	6251919.057	6251920.727	6251922.398	6251924.068	6251925.738	6251927.408	6251929.078	6251930.748	6251931.527
EXISTING SURFACE LEVEL	50.560	49.460	49.241	49.210	49.029	48.860	48.633	48.345	48.081	47.873	47.624	47.408	47.305	47.097	46.992
CHAINAGE	0.000	8.383	13.433	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	172.000

RETAINING WALL RW01 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

Issue	Description	Date
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

Bar Scales



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Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
RETAINING WALL RW01 PLAN
AND
LONGITUDINAL SECTION

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION
A1

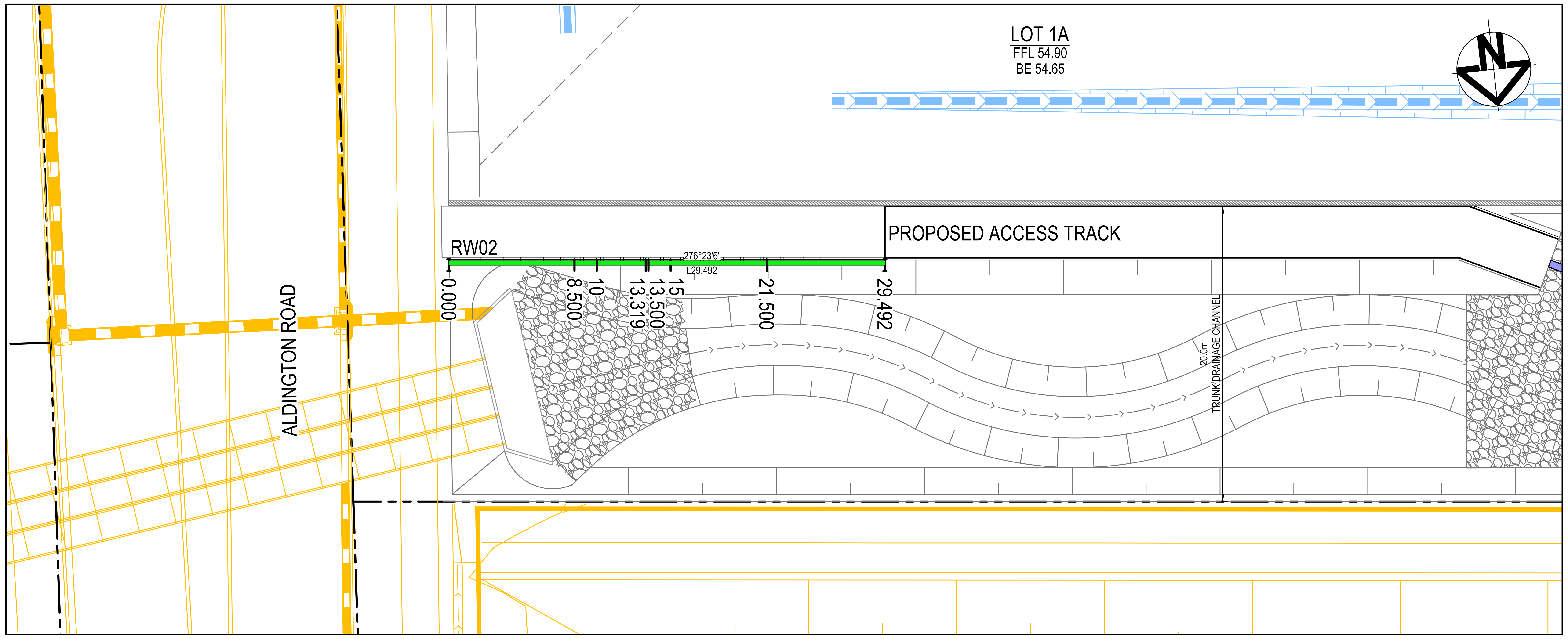
Project - Drawing No.
21-860-C2071

Issue
D

100mm on Original

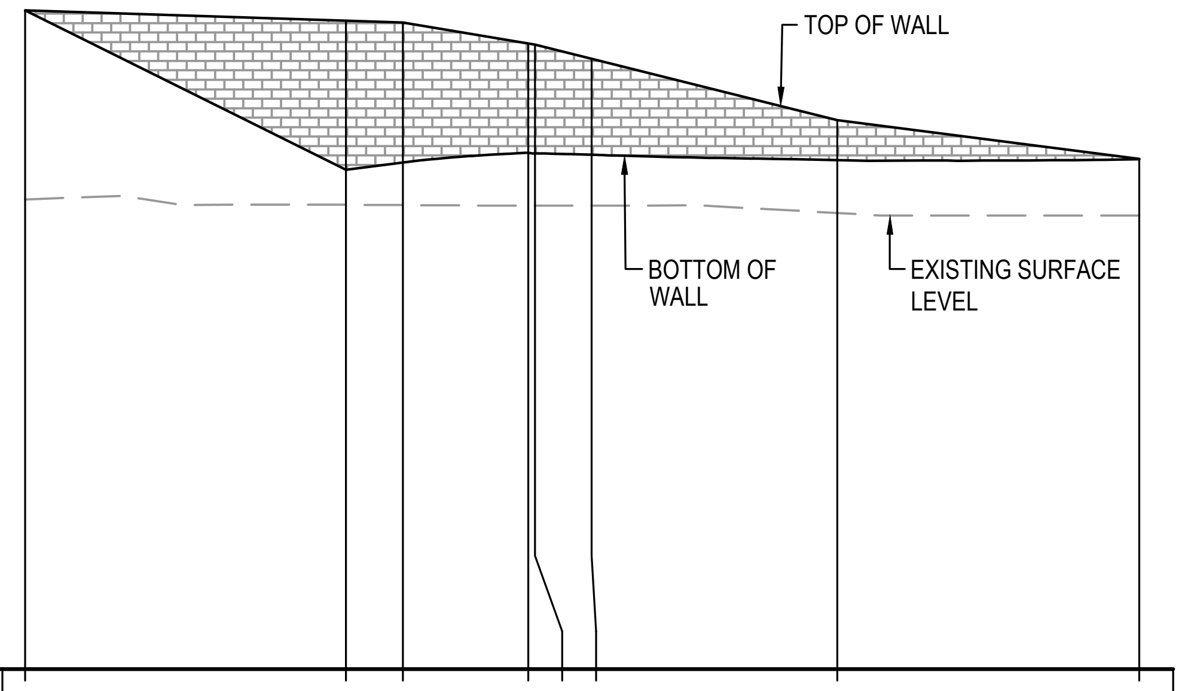
LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- EXISTING EASEMENT
- PROPOSED FILL RETAINING WALL



PLAN

SCALE 1:200



BOTTOM OF RETAINING WALL	53.713	51.604	51.701	51.830	51.822	51.802	51.733	51.746
TOP OF RETAINING WALL	53.713	53.576	53.552	53.276	53.261	53.074	52.261	51.749
HEIGHT OF RETAINING WALL	0.000	1.972	1.851	1.447	1.440	1.272	0.529	0.004
BOTTOM OF WALL EASTING COORDINATES	296066.408	296057.96	296056.47	296053.171	296052.991	296051.501	296045.041	296037.098
BOTTOM OF WALL NORTHING COORDINATES	6252024.09	6252025.035	6252025.202	6252025.571	6252025.591	6252025.758	6252026.481	6252027.37
EXISTING SURFACE LEVEL	51.212	51.143	51.138	51.130	51.130	51.132	51.033	51.000
CHAINAGE	0.000	8.500	10.000	13.319	13.500	15.000	21.500	29.492

RETAINING WALL RW02 LONGITUDINAL SECTION

SCALE 1:200 HORI.
1:100 VERT.

Issue	Description	Date
E	ISSUED FOR FOR APPROVAL	02-09-25
D	ISSUED FOR FOR APPROVAL	28-07-25
C	ISSUED FOR 90% DESIGN	04-07-25
B	ISSUED FOR TENDER	04-04-25
A	ISSUED FOR INFORMATION	31-03-25

100mm on Original

Bar Scales

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

0 5 10 15 20m
1 : 200 @ A1 1 : 400 @ A3

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Client

ICON
OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	ASD
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
RETAINING WALL RW02 PLAN
AND
LONGITUDINAL SECTION

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Status
FOR APPROVAL
NOT TO BE ISSUED FOR CONSTRUCTION

A1

Project - Drawing No.
21-860-C2072

Issue
E