PROJECT & PHASE

WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL

CLIENT

THOMPSON BUILDING GROUP

SITE ADDRESS / PROPERTY ID

LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

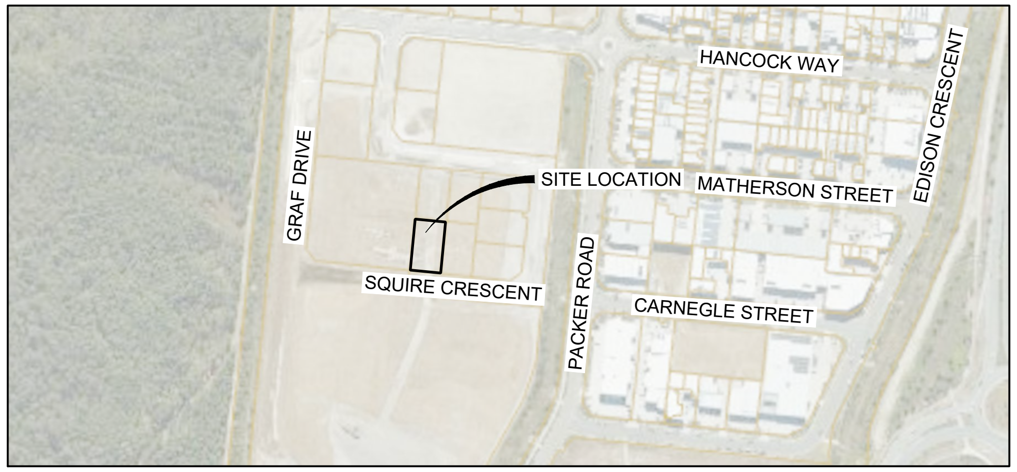

IMAGE (NEARMAPS)

LOCALITY PLAN
SCALE N.T.S

SURVEY DATA
SURVEYED BY RPS AAP CONSULTING PTY. LTD
DATED 01/07/2025.
PLAN REFERENCE 124697-5-176

RP DESCRIPTION
LOT 1127 SP347408
SITE AREA = 1512m²

PERMIT No. TBA

Project No.	Status	Drawing No.	Rev No.
2500277	FOR APPROVAL	OPW-C-001	A

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2025/1586
Date: 11 November 2025
Queensland Government

ARCOS

DRAWING INDEX

DRAWING No.	REV	DRAWING TITLE
2500277-OPW-C-001	A	COVER SHEET, LOCALITY & DRAWING INDEX
2500277-OPW-C-011	A	GENERAL NOTES & DETAILS
2500277-OPW-C-101	A	EXISTING FEATURES PLAN
2500277-OPW-C-201	A	EARTHWORKS PLAN
2500277-OPW-C-211	A	EARTHWORKS SECTIONS & DETAILS
2500277-OPW-C-231	A	EROSION & SEDIMENT CONTROL NOTES & STANDARD DETAILS
2500277-OPW-C-301	A	DEVELOPMENT SITE PLAN
2500277-OPW-C-371	A	CONCRETE JOINTING PLAN
2500277-OPW-C-372	A	CONCRETE JOINTING DETAILS
2500277-OPW-C-411	A	STORMWATER LONGITUDINAL SECTIONS
2500277-OPW-C-501	A	SEWER & WATER NOTES & DETAILS
2500277-OPW-C-502	A	SEWER & WATER PLAN

GENERAL NOTES:

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, LOCAL AUTHORITY SPECIFICATIONS (OR ARCOS GROUP SPECIFICATIONS IF SUPPLIED). ANY POINT OF CONFLICT IS TO BE IDENTIFIED BY THE CONTRACTOR AN WILL BE RESOLVED BY THE SUPERINTENDENT.
2. THE DEVELOPER IS TO NOMINATE THE SUPERINTENDENT AND/OR THE SUPERVISING RPEQ FOR THE WORKS AND NOTIFY ALL RELEVANT PARTIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. DIMENSIONS IN METRES U.N.O. DO NOT SCALE FROM DRAWINGS. USE PRINTED DIMENSIONS ONLY AND IF IN DOUBT ASK SUPERINTENDENT FOR CLARIFICATION.
4. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL APPROVAL CONDITIONS, DEVELOPMENT GUIDELINES, ASSOCIATED STANDARD DRAWINGS AND SPECIFICATIONS U.N.O.
5. EXISTING SERVICES AND STRUCTURES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE CONTRACTORS RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXITING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK. DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT.
6. ON COMPLETION OF SERVICES INSTALLATION, ALL AREAS SHALL BE RESTORED TO ORIGINAL LEVEL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO COUNCILS INFRASTRUCTURE. SUCH REPAIR OR REINSTATEMENT TO BE CARRIED OUT IMMEDIATELY TO THE SATISFACTION OF LOCAL COUNCIL.
8. THE CONTRACTOR SHALL PROVIDE ALL MANAGEMENT PLANS, INCLUDING TRAFFIC MANAGEMENT PLAN, ENVIRONMENTAL MANAGEMENT PLAN AND WORKPLACE HEALTH AND SAFETY PLAN FOR REVIEW AND APPROVAL OF PRINCIPAL AND SUPERINTENDENT, PRIOR TO CONSTRUCTION.
9. ALL MATERIALS SPECIFIED ARE TO BE UTILISED, UNLESS WRITTEN APPROVAL FROM THE SUPERINTENDENT, SUPERVISING RPEQ OR APPROVING AUTHORITY.
10. THE CONTRACTOR IS TO UNDERTAKE ALL WORKS IN ACCORDANCE WITH ALL WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
11. WHERE ANY EXCAVATION OR CONSTRUCTION WORKS ARE IN CLOSE PROXIMITY TO NEIGHBOURING LOT BOUNDARIES OR INFRASTRUCTURE, THE CONTRACTOR IS TO ALLOW IN SCOPE OF WORKS TO PROVIDE ALL MEASURES NECESSARY TO ENSURE THE INTEGRITY OF EXISTING BOUNDARIES AND INFRASTRUCTURE. THIS MAY INCLUDE THE USE OF LOW VIBRATION EQUIPMENT, TRENCH SHORING ETC AS REQUIRED.
12. THE CONTRACTOR SHALL NOTIFY ALL RELEVANT AUTHORITIES AND ENSURE REQUIRED CONDITIONS HAVE BEEN MET PRIOR TO COMMENCEMENT. THE CONTRACTOR SHALL NOTIFY ARCOS GROUP PRIOR TO COMMENCING WORKS AND RECEIVE WRITTEN CONFIRMATION THAT THE WORKS CAN COMMENCE.
13. CONTRACTOR SHALL PROVIDE AS CONSTRUCTED DRAWINGS FOR ALL CONSTRUCTED WORKS IN ACCORDANCE WITH COUNCIL REQUIREMENTS UNLESS OTHERWISE ADVISED BY ARCOS GROUP.
14. THE CONSTRUCTION PRE-START MEETING IS AN OPPORTUNITY FOR ALL PARTIES TO DISCUSS CRITICAL ISSUES, SUCH AS:
    - KEY OBJECTIVES OF THE EROSION AND SEDIMENT CONTROL PLAN;
    - REQUIRED WATER QUALITY OBJECTIVES;
    - PERFORMANCE MONITORING AND INSPECTION PROCEDURES;
    - IDENTIFICATION OF THE RESPONSIBLE SITE OFFICERS;
    - IDENTIFICATION OF CRITICAL ENVIRONMENTAL CONCERNS;
    - REPORTING PROCEDURES FOR NON-COMPLIANCE ACTIVITIES AND EVENTS.

ENVIRONMENTAL MANAGEMENT NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL ENVIRONMENTAL PROTECTION MEASURES BEING IMPLEMENTED ON SITE PRIOR AND DURING CONSTRUCTION.
2. NO VEGETATION BEYOND THE EXTENT OF EARTHWORKS OR THAT SHOWN ON THE PLANS IS TO BE UNDERTAKEN WITHOUT PRIOR CONSENT FROM THE SUPERINTENDENT.
3. ALL VEGETATION BEING RETAINED ON SITE MUST BE IDENTIFIED AND PROTECTED FROM DAMAGE.
4. EROSION AND SEDIMENT CONTROL IS THE RESPONSIBILITY OG THE CONTRACTOR AND MUST BE IMPLEMENTED PRIOR TO CONSTRUCTION COMMENCING AND DURING CONSTRUCTION.
5. ALL DISTURBED AREAS SHALL BE LEFT IN A STABLE CONDITION. THIS WILL INVOLVE SEEDING OR TURFING WITH APPROPRIATE GRASS SPECIES. ANY DISTURBED SLOPES SHALL BE COVERED WITH A SUITABLE FORM OF EROSION CONTROL.
6. PIPELINES ADJACENT TO SIGNIFICANT TREES MUST BE INSTALLED BY BORING OR DIRECTIONAL DRILLING UNLESS OTHERWISE AGREED WITH THE SUPERINTENDENT.
7. TOPSOIL AND SUBSOIL MUST BE STOCKPILED SEPARATELY AND NOT LOCATED UNDER TREE CANOPIES.
8. ALL STOCKPILES MUST HAVE APPROPRIATE SEDIMENT CONTROLS IN ACCORDANCE WITH THE ENVIRONMENTAL MANAGEMENT PLAN.
9. NO SOIL CAN BE STOCKPILED WITHIN 5M OF ANY CREEK OR WATER COURSE.
10. ANY SOIL DISTURBED ON SITE IS TO BE REUSED ON SITE. ANY UNSUITABLE MATERIAL NOT REUSED MUST BE DISPOSED OF AT A REGULATED WASTE DISPOSAL FACILITY.

RETAINING WALL NOTES:

1. RETAINING WALLS LESS THAN 1m IN HEIGHT TO BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. ALL WALLS OVER 1m IN HEIGHT, SUBJECT TO LOADING OR ADJACENT EXISTING STRUCTURES TO BE DESIGNED BY STRUCTURAL RPEQ AND REFERENCE IS MADE TO OTHERS.
2. SUPPORTED MATERIAL IS TO BE NATURAL INSITU SOIL OR WELL COMPACTED FILL, CAPABLE OF STANDING UNSUPPORTED DURING CONSTRUCTION OF THE WALL
3. FILL MATERIAL BEHIND WALL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 200mm DEPTH COMPACTED TO 95% MDD (AS1289) AND TO EXTEND A MINIMUM OF 2m BEYOND THE FRONT FACE OF WALL BEFORE BEING TRIMMED BACK ENSURING SOLID COMPACTION.
4. 20mm SCREENINGS BACKFILL MATERIAL IS TO BE GRANULAR, FREE DRAINING AND IN A MEDIUM DENSE CONDITION.
5. FOUNDATION TO BE CHECKED BY AN EXPERIENCED GEOTECHNICAL ENGINEER TO CONFIRM BEARING CAPACITY PRIOR TO PLACEMENT OF BLINDING LAYER/FIRST LAYER OF ROCK WALL.
6. ALL ROCK TO BE SOUND AND NOT DISPOSED TO DETRIMENTAL WEATHERING.
7. EROSION AND SEEPAGE SHALL BE CONTROLLED TO ELIMINATE CONCENTRATED FLOWS OVER OR THROUGH THE COMPLETED WORK.
8. AG DRAIN TO DISCHARGE TO CONNECT TO STORMWATER AT MAX 30m CENTRES OR DIRECTED TO LAWFUL POINT OF DISCHARGE TO SATISFACTION OF COUNCIL ENGINEERS
9. THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OFF ALL TEMPORARY WORKS INCLUDING PROPPING AND BRACING. WHERE NECESSARY THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY TEMPORARY WORKS. TEMPORARY PROPPING DURING BACKFILLING PROCEDURES MAY BE REQUIRED.
10. THIS DESIGN DOES NOT CONSIDER GLOBAL STABILITY AND IT IS THE RESPONSIBLE OF THE CONTRACTOR TO PROVIDE STABILITY REPORT AND MEASURES AGAINST SITE SLIPPAGE.

ROADWORKS & DRIVEWAY NOTES:

1. COMPACT THE EXPOSED SUBGRADE OR LOOSE TOP LEVEL MATERIAL TO A MINIMUM 100% STANDARD MAXIMUM DRY DENSITY (MDD) TO AS1289. ANY 'SOFT SPOTS' IDENTIFIED BY THE PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH A COMPACTED IMPORTED GENERAL FILL MATERIAL TO THE ABOVE COMPACTION REQUIREMENTS.
2. ALL EXPOSED SUBGRADE AREAS SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS.
3. GEOTECHNICAL INVESTIGATIONS REQUIRED IN ORDER TO DETERMINE SUBGRADE PROPERTIES & PREPARATION DETAILS. CONTRACTOR TO UNDERTAKE 4-DAY SOAKED CBR ON EXISTING SUBGRADE AND RESULTS TO BE A MINIMUM OF 5%. TESTING TO BE PROVIDED TO SUPERVISING ENGINEER PRIOR TO PROOF ROLL.
4. LEVELS SHOWN ARE FINISHED SURFACE LEVELS INCLUSIVE OF TOPSOIL LAYER OR BUILDING SLAB THICKNESS.
5. FINISHED SURFACES TO ALL DISTURBED AREAS ARE TO BE TREATED IN ACCORDANCE WITH LANDSCAPE DRAWINGS AND/OR TYPICAL SECTIONS.
6. CONTRACTOR TO OBTAIN ROADWORKS AND FOOTPATH PERMITS FOR ANY PROPOSED WORKS EXTERNAL TO THE SITE BOUNDARY.
7. SUBSOIL DRAINAGE UNDER KERBS TO BE IN ACCORDANCE WITH IPWEA STD DRG RS-140.
8. ALL TEMPORARY AND FINAL BATTER SLOPES ARE TO BE INSPECTED BY AN APPROVED GEOTECHNICAL ENGINEER.

EARTHWORKS NOTES:

1. ALL EXCAVATION AND FILLING SHALL BE CONSTRUCTED IN ACCORDANCE WITH AS3798 AND IN ACCORDANCE WITH THE CURRENT LOCAL AUTHORITY AND ARCOS SPECIFICATIONS.
2. ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND FULLY OPERATIONAL BEFORE COMMENCING UP-SLOPE EARTHWORKS.
3. THE CONTRACTOR SHALL REMOVE ALL STRUCTURES, DEBRIS AND FENCES FROM THE SITE TO THE SATISFACTION OF THE SUPERINTENDENT.
4. EXISTING SURFACE IS TO BE CLEAR OF ORGANIC MATERIAL PRIOR TO THE START OF FILLING.
5. FILL IS TO BE OF GOOD QUALITY AND FREE OF UNSUITABLE MATERIAL.
6. FILL TO BE PLACED IN MAXIMUM 200mm LIFTS, UNLESS APPROVED OTHERWISE BY A SUITABLY QUALIFIED CONSULTANT, AND COMPACTED TO SPECIFICATION.
7. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, THE FINISHED SURFACE LEVELS MAY BE ADJUSTED BY THE WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION AFTER AMENDED DRAWINGS HAVE BEEN APPROVED BY COUNCIL.
8. ALL AREAS SUBJECT TO EARTHWORKS ARE TO BE FREE DRAINING WITH A MINIMUM SLOPE OF 1:100 (1%).
9. ALL DRAINAGE STRUCTURES ARE TO BE PRESERVED FROM THE EFFECTS OF STRUCTURAL LOADING GENERATED BY THE EARTHWORKS.
10. ANY AREA DISTURBED OUTSIDE OF THE WORKS AREA SHOWN SHALL BE REHABILITATED TO A MINIMUM OF THE PRE-CONSTRUCTION CONDITIONS, AT THE CONTRACTORS EXPENSE.
11. EARTHWORKS BATTERS ARE TO BE TREATED AS FOLLOWS:
    - 1:4 OR FLATTER TO BE GRASS SEEDED U.N.O
    - STEEPER THAN 1:4 TO BE MULCHED & PLANTED IN ACCORDANCE WITH THE LANDSCAPE PLANS
13. TREE REMOVAL WORKS TO BE UNDERTAKEN BY A SUITABLY QUALIFIED AND INSURED CONTRACTOR. TIMBER IS TO BE REMOVED, REUSED OR RECYCLES IN AN APPROPRIATE AND A SUSTAINABLE MANNER WHERE POSSIBLE.

STORMWATER DRAINAGE NOTES:

1. ALL STORMWATER DRAINAGE HAS BEEN DESIGNED AND IS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3500, LOCAL COUNCIL AUTHORITY REQUIREMENTS, IPWEA AND QUDM.
2. EXCAVATION, BEDDING AND BACKFILLING OF STORMWATER DRAINAGE PIPES TO BE IN ACCORDANCE WITH IPWEA STD DRG DS-030.
3. ALL MANHOLES TO BE MIN 1050mm DIAMETER IN ACCORDANCE WITH IPWEA STD DRG DS-010.
4. ALL GRATES & MANHOLE COVERS LOCATED WITHIN ROADWAY TO BE SOLID DUCTILE CAST IRON CLASS 'D', AND WHERE NOT LOCATED WITHIN ROADWAY TO BE CLASS 'B' U.N.O, IN ACCORDANCE WITH IPWEA STD DRG DS-019 & DS-020.
5. ALL GULLY PITS TO BE LIP IN LIL (L.I.L) U.N.O IN ACCORDANCE WITH IPWEA STD DRG DS-063.
5. ALL FIELD INLETS TO BE IN ACCORDANCE WITH IPWEA STD DRG DS-050.
6. ALL REINFORCED CONCRETE PIPES ARE TO BE INSTALLED USING TYPE 'HS2' SUPPORT U.N.O AS DEFINED IN AS3725 - LOADS ON BURIED CONCRETE PIPES. IF ALTERNATIVE BEDDING METHODS ARE TO BE USED THE PIPE CLASS MUST BE REVIEWED.
7. ALL PIPES ABOVE 300Ø RCP TO BE RRJ CLASS 3 U.N.O. PIPES 300Ø AND BELOW TO BE UPVC U.N.O. HDPE/PP MAY BE USED AS AN RCP ALTERNATIVE FOR INTERNAL AND COUNCIL STORMWATER WHERE APPROVED BY THE SUPERVISING ENGINEER AND COUNCIL WHERE REQUIRED.
8. STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY, THE CONTRACTOR SHALL ASSESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES, IF NECESSARY, IN ACCORDANCE WITH AS3725, AT THE CONTRACTORS COST.
9. UNLESS DIRECTED OTHERWISE STORMWATER STRUCTURES INCLUDING HEADWALLS ARE TO HAVE AG-PIPE DRAINAGE STUBS (WITH END CAP) TO DEWATER DRAINAGE TRENCH.
10. THE CONTRACTOR IS TO CONSIDER CONSTRUCTION LOADING ON EXISTING AND NEW STORMWATER PIPES AND STRUCTURES.
11. ALL PIPE PENETRATIONS WILL BE NEATLY MORTARED ON THE INSIDE FACE OF MANHOLES/PITS.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL TRENCH EXCAVATION AND CONSTRUCTION IS IN ACCORDANCE WITH CURRENT CONSTRUCTION SAFETY ACT AND WORKPLACE HEALTH AND SAFETY LEGISLATION.
13. THE CONTRACTOR IS TO TAKE ALL POSSIBLE MEASURES TO ENSURE PROPER COMPACTION TO BACKFILLING OF TRENCHES AND STRUCTURES.
14. THE CONTRACTOR SHALL DEMONSTRATE NO DAMAGE TO EXISTING STORMWATER INFRASTRUCTURE HAS OCCURRED DURING THE CONSTRUCTION OF THESE WORKS.
15. UPON COMPLETION, ALL STORMWATER DRAINAGE INFRASTRUCTURE WILL BE CLEAR OF DEBRIS AND OTHER BLOCKAGES. THE CONTRACTOR IS TO PROVIDE A CCTV SURVEY OF ALL NEWLY CONSTRUCTED STORMWATER ASSETS FOR APPROVAL BY THE ENGINEER AND/OR LOCAL AUTHORITY.
16. ALL DEFECTS IDENTIFIED BY THE CCTV SURVEY WILL BE REPAIRED TO A SATISFACTORY STANDARD BY THE CONTRACTOR. PAYMENT FOR THESE REPAIRS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, UNLESS IT CAN BE DEMONSTRATED THAT THE IDENTIFIED DAMAGE WAS PRE-EXISTING AND THE RESPONSIBILITY OF OTHER PARTIES.
17. RESIDENTIAL DRAINAGE CONNECTIONS TO KERB AND CHANNEL IN ACCORDANCE WITH IPWEA STD DRG RS-081.

REINFORCED CONCRETE NOTES:

GENERAL

CONCRETE SHALL BE IN ACCORDANCE WITH AUSTRALIAN STANDARD SPECIFICATIONS

- AS 3600 - "SAA CONCRETE STRUCTURES CODE".

IN ADDITION TO THE ABOVE CODE THE FOLLOWING AUSTRALIAN STANDARD SPECIFICATIONS AND CODES OR THEIR LATEST REVISION SHALL APPLY:

- AS1012 PARTS 1-19 - METHODS FOR THE TESTING OF CONCRETE (METRIC UNITS)
- AS3583.1,2,3,8 - METHODS OF TEST FOR SUPPLEMENTARY CEMENTITIOUS MATERIALS FOR USE WITH PORTLAND CEMENT
- AS3582.1 - SUPPLEMENTARY CEMENTITIOUS MATERIALS FOR USE WITH PORTLAND CEMENT- FLY ASH
- AS1141 - METHODS FOR SAMPLING AND TESTING AGGREGATES
- AS1302 - STEEL REINFORCING BARS FOR CONCRETE
- AS1303 - HARD DRAWN STEEL REINFORCING WIRE FOR CONCRETE
- AS1304 - HARD DRAWN STEEL WIRE REINFORCING FABRIC FOR CONCRETE
- AS3972 - PORTLAND AND BLENDED CEMENTS
- AS1379 - READY-MIXED CONCRETE (METRIC UNITS)
- AS2758 - CONCRETE AGGREGATES
- AS1478, AS1479 - CODE OF PRACTICE FOR USE OF CHEMICAL ADMIXTURES IN CONCRETE
- AS3610 - FORMWORK FOR CONCRETE

SUPPLY

1. ALL CONCRETE IS TO BE SUPPLIED BY A LICENSED READY MIXED CONCRETE MANUFACTURER. NO ON SITE BATCHING IS ACCEPTABLE.
2. MANUFACTURERS MUST HAVE AN APPROVED AND CERTIFIED QUALITY ASSURANCE PROGRAM IN PLACE AND BE APPROVED BY THE ENGINEER PRIOR TO SUPPLY OF ANY CONCRETE.
3. ALL MATERIALS, STORAGE, BATCHING, ETC TO CONFORM TO THE REQUIREMENTS OF THE RELEVANT AUSTRALIAN STANDARDS.
4. ALL CONCRETE TO BE NORMAL-CLASS IN ACCORDANCE WITH AS3600 UNLESS NOTED OTHERWISE.
5. ALL CONCRETE SHALL HAVE A SHRINKAGE STRAIN NOT EXCEEDING 600 MICROSTRAIN.
6. ALL CONCRETE IS SPECIFIED BY 28 DAY COMPRESSIVE STRENGTH U.N.O.
7. ALL REINFORCEMENT TO BE SUPPLIED BY A REGISTERED MANUFACTURER WITH AN APPROVED AND CERTIFIED QUALITY
8. ASSURANCE PROGRAM IN PLACE. ALL REINFORCEMENT IS TO COMPLY WITH THE REQUIREMENTS OF AS1302, AS1303 AND AS1304 AS APPLICABLE.
9. ALL REINFORCEMENT IS TO BE DELIVERED TO SITE FREE FROM OIL, GREASE OR OTHER SURFACE COATINGS WHICH MAY IMPAIR BOND TO CONCRETE.
10. ALL REINFORCEMENT TO BE 500 MPA MINIMUM YIELD U.N.O.

FORMWORK

1. ALL CONCRETE OTHER THAN CAST AGAINST GROUND, SHALL BE PLACED AGAINST TIMBER, PLYWOOD OR STEEL FORMS.
2. ALL FORMWORK SHALL COMPLY WITH THE REQUIREMENTS OF AS15O9 AND AS151O.
3. REFER ARCHITECT'S DRAWINGS FOR REQUIRED FORMWORK CLASS WHERE APPLICABLE. CLASS B FORMWORK SHALL BE ADOPTED U.N.O.
4. ALL TEMPORARY FORMWORK, FALSEWORK, PROPPING, BRACING, TO BE DESIGNED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER (RPEQ) PRIOR TO ERECTION.
5. ALL REINFORCEMENT TO BE SUPPORTED OFF FORMS WITH PLASTIC OR PLASTIC TIPPED WIRE CHAIRS TO PROVIDE THE SPECIFIED COVER. ALL CONCRETE CAST AGAINST GROUND TO BE UNDERLAIN BY WATERPROOF MEMBRANE.

TRANSPORT

1. ALL CONCRETE IS TO BE TRANSPORTED TO SITE IN AGITATOR TRUCKS. CONCRETE NOT PLACED WITHIN ONE HOUR AFTER BATCHING MAY BE REJECTED AT THE ENGINEER'S DISCRETION

PLACEMENT, COMPACTION AND FINISHING

1. CONCRETE TO BE PLACED IN FORMS BY HORIZONTAL 'CHUTING' NO MORE THAN $3m^3$, CONCRETE PUMPING OR KIBBLING. UNDER NO CIRCUMSTANCES SHALL CONCRETE BE INDUCED TO FLOW HORIZONTALLY BY USE OF VIBRATORS.
2. ALL CONCRETE SHALL BE PLACED CONTINUOUSLY BETWEEN CONSTRUCTION JOINTS AS DETAILED, IN SUCH A MANNER AS TO AVOID 'COLD JOINTS'. CONSTRUCTION JOINTS SHALL BE LOCATED AS DETAILED ON DRAWINGS OR AS INSTRUCTED IN WRITING BY THE ENGINEER.
3. ALL CONCRETE IS TO BE COMPACTED UPON PLACEMENT USING 5OMM DIAMETER VIBRATORS.
4. SLABS AND BEAMS ARE TO HAVE A FILM OF APPROVED ALPHATIC ALCOHOL APPLIED TO THE SURFACE, DIRECTLY AFTER SCREEDING, PRIOR TO FLOATING, REGARDLESS OF WEATHER CONDITIONS.
5. ADDITIONAL PROTECTIVE MEASURES SUCH AS CHILLED MIX WATER, SHADING PLACEMENT AREAS, WIND BREAKS, ETC MAY BE REQUIRED BY THE ENGINEER IF PLACING CONCRETE DURING UNUSUALLY HOT, DRY OR WINDY CONDITIONS.
6. ALL CONCRETE SLABS SHALL BE STEEL TROWEL FINISHED U.N.O.
7. BROOM FINISHING, WHERE SPECIFIED, SHALL BE CARRIED OUT AFTER STEEL TROWEL FINISHING.
8. ALL CONCRETE TO BE ORDERED AND PLACED AT 8OMM SLUMP U.N.O.
9. NO WATER TO BE ADDED ON SITE UNLESS APPROVED BY THE ENGINEER.

TESTING

1. ALL CONCRETE TESTING IS TO BE CARRIED OUT BY A NATA REGISTERED LABORATORY, IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF AS1012.
2. THE FOLLOWING TESTING SCHEDULE IS TO BE ADOPTED IN ADDITION TO THE REQUIREMENTS OF THE MANUFACTURER'S QUALITY ASSURANCE PROGRAM:
    - A MINIMUM OF ONE TEST (3 CYLINDERS) TO BE TAKEN FROM EACH ELEMENT CAST ON ANY GIVEN DAY (EG. COLUMNS, FOOTINGS, ETC)
    - A MINIMUM OF ONE TEST (3 CYLINDERS) TO BE TAKEN FROM EACH CONCRETE STRENGTH GRADE CAST ON ANY GIVEN DAY.
    - A MINIMUM OF ONE TEST (3 CYLINDERS) TO BE TAKEN FROM EACH $5OM^3$ OR PART THEREOF CAST ON A GIVEN DAY FOR EACH STRENGTH GRADE.
3. ALL SAMPLES ARE TO BE TAKEN FROM THE AGITATOR, ON SITE. IF WATER IS ADDED ON SITE, WITH THE ENGINEER'S PERMISSION, SAMPLES FOR TESTING SHALL BE TAKEN AFTER THE ADDITION OF WATER.

CURING

1. ALL CONCRETE IS TO BE CURED BY AN APPROVED METHOD FOR A MINIMUM OF 28 DAYS AFTER FINISHING. CURING METHOD IS TO BE APPROVED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT AND SHALL GENERALLY CONSIST OF ONE OR A COMBINATION OF THE FOLLOWING METHODS:
    - CONTINUOUS WATER PONDING.
    - COMPLETE ENCASEMENT IN A WATERPROOF FILM (EG. POLYTHENE).
    - APPLICATION OF AN APPROVED CURING COMPOUND.

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WARNING
BEWARE OF UNDERGROUND SERVICES

POSITION OF EXISTING UNDERGROUND SERVICES SHOWN IS APPROXIMATE ONLY. EXACT POSITION SHALL BE PROVEN ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION

LOCATION OF SERVICES

PRIOR TO COMMENCEMENT OF NEW WORK THE CONTRACTOR SHALL CONFIRM LOCATIONS, LEVELS AND DETAILS OF EXISTING CONNECTION POINTS AND SERVICE CROSSINGS BY POT HOLING. IF A VARIATION OCCURS CONTACT THE ENGINEER PRIOR TO CONSTRUCTION.

PROTECTION OF SERVICES

THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES AND ARRANGE FOR RELOCATION AND / OR PROTECTION OF EXISTING SERVICES AS REQUIRED TO SUIT SURROUNDING NEW WORK, CONSTRUCTION LOADINGS AND TO SUIT FINAL FINISHED SURFACE LEVELS AND GRADES.

SETTING OUT

DESIGN FINISHED SURFACE LEVELS OF STRUCTURES ARE FOR THE CONTRACTOR'S GUIDANCE ONLY. ACTUAL FINISHED LEVELS SHALL BE SET OUT AS DIRECTED ON-SITE IN KEEPING WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL AUTHORITY AND ACTUAL FINISHED GROUND LEVELS.

INSPECTIONS & HOLD POINTS:

- PRE-START MEETING
- SET OUT
- SUBGRADE PROOF-ROLLS
- CONCRETE PRE-POURS
- STORMWATER
- BIO BASIN MATERIALS & DRAINAGE
- PAVEMENT PRE SEAL
- FINAL INSPECTION
- ON MAINTENANCE

Rev	Revision Description	Date	Approved
A	FOR APPROVAL	19.08.25	GM

North Point

Scale

Horiz. Datum: LOCAL
Vert. Datum: AHD
RL Datum

Client: THOMPSON BUILDING GROUP

Consultant: ARCOS

CIVIL | STRUCTURAL | GEOTECHNICAL
SUNSHINE COAST | BRISBANE | GOLD COAST
www.arcosgroup.com.au | ABN 51 640 311 842

Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

Drawn: KT
Design: HD
Check: GM
Approved: GRANT MINCHEV
RPEQ 35023
Approved Date: 19.08.25
Signed

Drawing: GENERAL NOTES & DETAILS

Project No.: 2500277
Drawing No.: OPW-C-011
Rev No.: A
Status: FOR APPROVAL
Sheet Size: A1

EXISTING LEGEND

- SUBJECT PROPERTY BOUNDARY
- 4.00 — MAJOR CONTOUR
- MINOR CONTOUR
- s150 — SEWER MAIN
- w150 — WATER MAIN
- c — U/G TELECOMMS
- e — ELECTRICAL U/G
- TO BE REMOVED

NOTES:

1. FOR GENERAL NOTES REFER DRG C-011.

DEMOLITION

DEMOLISH OR RELOCATE OFF SITE ALL EXISTING BUILDINGS AND/OR STRUCTURES ON SITE AND DISCONNECT AND WHERE REQUIRED CAP ALL ASSOCIATED SERVICES IN ACCORDANCE WITH A PLUMBING AND DRAINAGE APPLICATION PRIOR TO DEMOLITION COMMENCING.

CLEARING

THE CONTRACTOR SHALL REMOVE ALL EXISTING VEGETATION WITHIN THE SITE IN ACCORDANCE WITH THE APPROVED TREE RETENTION PLAN IF SPECIFIED.

Rev	Revision Description	Date	Approved
A	FOR APPROVAL	19.08.25	GM

North Point: N

Scale: 0m 3.125 6.25 — A1 1:125

Horiz. Datum: LOCAL
Vert. Datum: AHD
RL Datum

Client: THOMPSON BUILDING GROUP

Consultant: ARCOS

CIVIL | STRUCTURAL | GEOTECHNICAL
SUNSHINE COAST | BRISBANE | GOLD COAST
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Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

Drawn: KT
Design: HD
Check: GM

Drawing: EXISTING FEATURES PLAN

Approved: GRANT MINCHEV RPEQ 35023
Approved Date: 19.08.25
Signed

Project No.: 2500277
Drawing No.: OPW-C-101
Rev No.: A
Status: FOR APPROVAL
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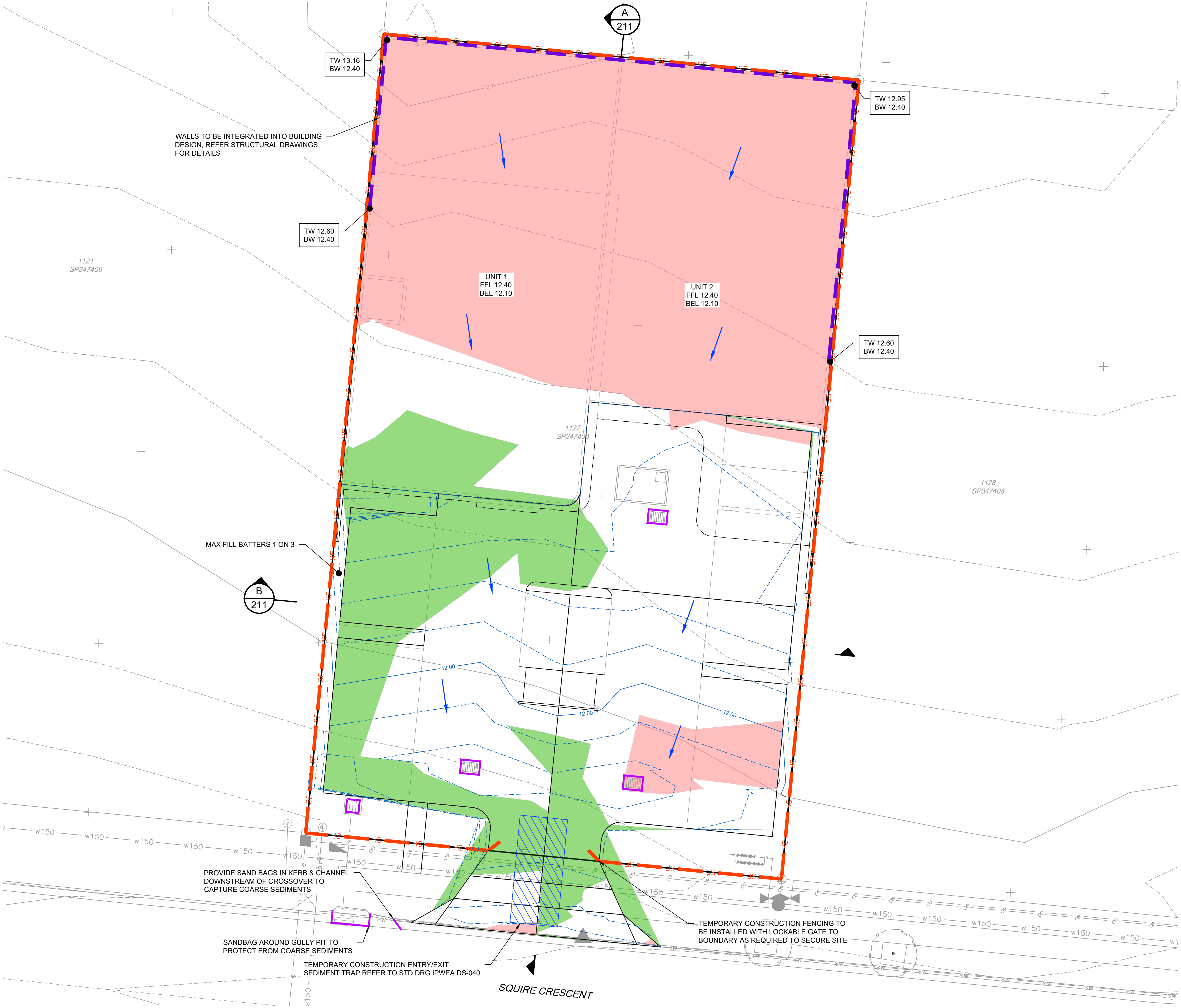


EXISTING LEGEND

- SUBJECT PROPERTY BOUNDARY
- 4.00 MAJOR CONTOUR
- MINOR CONTOUR
- s150 SEWER MAIN DN150
- w150 WATER MAIN DN150
- c U/G TELECOMMS
- e ELECTRICAL U/G
- sw STORMWATER
- / FENCE
- X 20.000 SURFACE LEVEL

PROPOSED LEGEND

- CUT
- FILL
- 50.00 MAJOR CONTOUR 0.5m INTERVAL
- MINOR CONTOUR 0.1m INTERVAL
- FLOW DIRECTION
- SF SEDIMENT FENCE
- RETAINING WALL - BUILDING WORKS
- X 20.000 DESIGN SURFACE LEVEL
- INLET PROTECTION

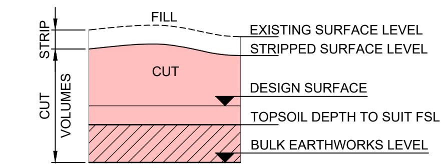
EARTHWORKS QUANTITIES

TOP SOIL STRIP:	227m^3
EARTHWORKS CUT:	-321m^3
EARTHWORKS FILL:	19m^3
BALANCE:	-302m^3

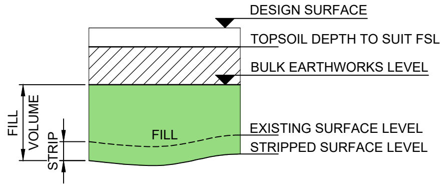
NOTES:
1. ALL VOLUMES INDICATED ARE SOLID VOLUMES.
2. ASSUMED TOP SOIL STRIP 150mm THICK.
3. EARTHWORKS QUANTITIES BASED ON COMPARISON BETWEEN SUBGRADE SURFACE AND STRIP SURFACE.

NOTES:

1. FOR GENERAL & EARTHWORKS NOTES REFER DRG C-011.
2. FOR EROSION & SEDIMENT CONTROL NOTES & DETAILS REFER DRG C-231.
3. RETAINING WALLS TO BE DESIGNED BY OTHERS/STRUCTURAL ENGINEER.



CUT DIAGRAM
N.T.S.



FILL DIAGRAM
N.T.S.

THE EROSION & SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION & SEDIMENTATION CONTROL FOR THE SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AN EROSION & SEDIMENT CONTROL DESIGN AND A COMPLETED DESIGN CERTIFICATE PRIOR TO COMMENCEMENT OF WORK. CERTIFICATION MUST BE UNDERTAKEN BY A SUITABLY QUALIFIED, EXPERIENCED PROFESSIONAL.

Rev	Revision Description	Date	Approved
A	FOR APPROVAL	19.08.25	GM

North Point: N

Scale: 0m 3.125 6.25 — A1 1:125

Horiz. Datum: LOCAL
Vert. Datum: AHD
RL Datum

Client: THOMPSON BUILDING GROUP

Consultant: ARCOS — CIVIL | STRUCTURAL | GEOTECHNICAL — SUNSHINE COAST | BRISBANE | GOLD COAST — www.arcosgroup.com.au | ABN 51 640 311 842

Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

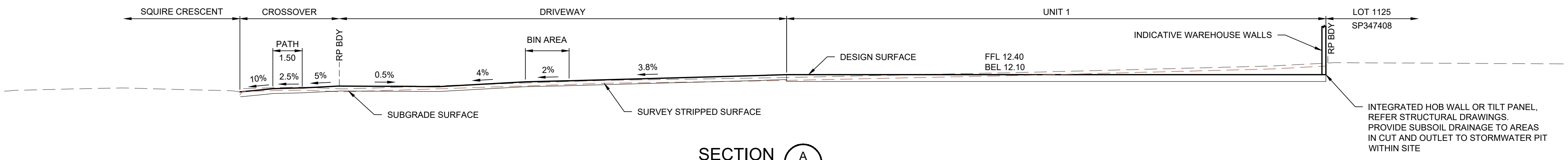
Drawn	KT
Design	HD
Check	GM

Drawing: EARTHWORKS PLAN

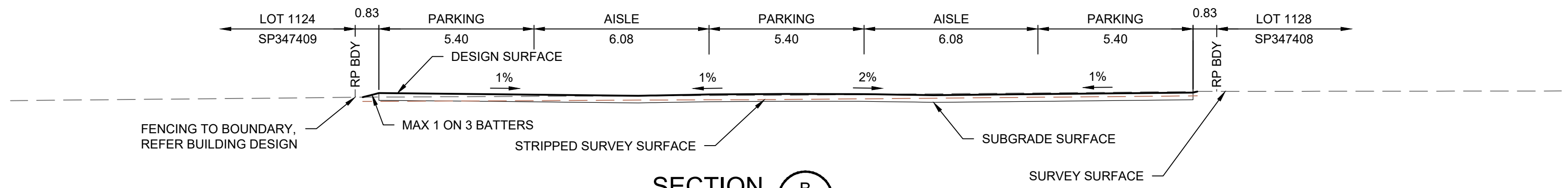
Approved: GRANT MINCHEV RPEQ 35023 — Approved Date: 19.08.25 — Signed

Project No.: 2500277 — Drawing No.: OPW-C-201 — Rev No.: A

Status: FOR APPROVAL — Sheet Size: A1



SECTION A/201
SCALE 1:125



SECTION B/201
SCALE 1:125

Rev	Revision Description	Date	Approved
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North Point

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Horiz. Datum: LOCAL
Vert. Datum: AHD
RL Datum

Client: THOMPSON BUILDING GROUP

Consultant: ARCOS
CIVIL | STRUCTURAL | GEOTECHNICAL
SUNSHINE COAST | BRISBANE | GOLD COAST
www.arcosgroup.com.au | ABN 51 640 311 842

Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

Drawn: KT
Design: HD
Check: GM
Approved: GRANT MINCHEV, RPEQ 35023
Approved Date: 19.08.25
Signed

Drawing: EARTHWORKS SECTIONS & DETAILS

Project No.: 2500277
Drawing No.: OPW-C-211
Rev No.: A
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GENERAL:

1. TO BE READ IN CONJUNCTION WITH 'SEDIMENT CONTROL DEVICES', REFER STD DRG IPWEA DS-040 & DS-041.
2. TEMPORARY DRAINAGE CONTROL FLOW SHOULD BE DIVERTED AROUND THE WORK SITE WHERE POSSIBLE.
3. ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND BE OPERATIONAL BEFORE COMMENCING UP-SLOPE EARTHWORKS.
4. CONTROL MEASURES TO BE INSPECTED AT LEAST WEEKLY AND AFTER SIGNIFICANT RUNOFF PRODUCING STORMS.
5. IN AREAS WHERE RUNOFF TURBIDITY IS TO BE CONTROLLED, EXPOSED SURFACES TO BE EITHER MULCHED, COVERED WITH EROSION CONTROL BLANKETS OR TURFED IF EARTHWORKS ARE EXPECTED TO BE DELAYED FOR MORE THAN I4 DAYS.
6. CONTROL MEASURES MAY BE REMOVED WHEN ON-SITE EROSION IS CONTROLLED AND 70% PERMANENT SOIL COVERAGE IS OBTAINED OVER ALL UPSTREAM DISTURBED LAND.
7. STRAW BALE SEDIMENT TRAPS ARE TO BE SECONDARY OPTION WHICH GENERALLY SHOULD NOT BE USED IF OTHER OPTIONS ARE AVAILABLE.
3. ALL CAPTURED RUNOFF MUST BE TREATED TO <75NTU PRIOR TO DISCHARGE.
4. SITE TO BE PROGRESSIVELY STABILISED, AIMING FOR 60% STABILISATION WITHIN 20 DAYS FROM START OF WORKS AND 70% OR GREATER WITHIN 2 MONTHS.
5. ALL INLET PITS TO BE PROTECTED IMMEDIATELY.
6. EROSION AND SEDIMENT CONTROL MEASURES TO BE PROGRESSIVELY REVEGETATE AND REHABILITATE THE SITE STABILISATION IS ACHIEVED.

SEDIMENT CONTROL:

1. ALL SEDIMENT & EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) AUSTRALIA GUIDELINES AND THE SPECIFICATIONS. THE BASIC PRINCIPLES ARE TO:
   - MINIMISE THE AREA OF DISTURBANCE;
   - CONTROL DRAINAGE PATHS UPSTREAM OF SITE AND AT OUTLETS FROM SITE;
   - MINIMISE EROSION;
   - MINIMISE SEDIMENTATION;
   - PROGRESSIVELY REVEGETATE AND REHABILITATE THE SITE
2. SEDIMENT & EROSION CONTROL DETAILS SHOWN ARE MINIMUM REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY THROUGHOUT CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL SEDIMENT CONTROL DEVICES IN A FUNCTIONAL ORDER AND REPLACE ALL BLOCKED SEDIMENT DEVICES AS REQUIRED UNTIL SUCCESSFUL OFF MAINTENANCE OF WORKS.
4. CONSTRUCTION OF ALL SEDIMENT MANAGEMENT DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT. SHALL BE COMPLETED AND EFFECTIVE PRIOR TO:
   a. STRIPPING OF TOPSOIL AND GRASS.
   b. BULK EARTHWORKS TO THE SITE.
   c. SERVICES INSTALLATION.
   d. PAVEMENT CONSTRUCTION.
6. ALL SEDIMENT MANAGEMENT MEASURES ARE TO REMAIN IN PLACE UNTIL INSTRUCTION IS RECEIVED IN WRITING FROM THE SUPERINTENDENT TO REMOVE ALL OR PART OF THE SILT CONTROL APPLICATIONS.
7. BOTH TEMPORARY AND PERMANENT SEDIMENT MANAGEMENT/EROSION CONTROL DEVICES SHALL BE MAINTAINED AT A SUITABLE LEVEL/CONDITION THROUGHOUT CONSTRUCTION TO THE SATISFACTION OF THE SUPERINTENDENT. SEDIMENT FENCES ARE TO BE CLEANED OUT WHEN CAPACITY IS REDUCED BY 30%.
8. THE BULK EARTHWORKS AND SEDIMENT CONTROL LAYOUT PLAN SHALL BE READ IN CONJUNCTION WITH THE APPROVED DRAWINGS.
9. PRIOR TO COMMENCEMENT OF CONSTRUCTION APPROVAL IS TO BE OBTAINED FROM THE SUPERINTENDENT FOR THE LOCATION OF THE SITE ACCESS POINT AND WASH DOWN AREA WHICH ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
10. IF EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN FOUND TO BE DIFFERENT OR FAILED IN SERVICE, CORRECTIVE ACTION IS TO BE UNDERTAKEN IMMEDIATELY WHICH MAY INCLUDE AMENDMENTS' ADDITIONS TO THE ORIGINAL APPROVED EROSION CONTROL PLANS. SUCH AMENDMENTS ARE TO BE APPROVED BY SUPERINTENDENT, IF DEEMED NECESSARY AND RELEVANT.
11. SEDIMENT TRAP TO BE FLOCCULATED AND DE-SILTED AS NECESSARY.
12. WATER QUALITY TESTING / MONITORING TO BE UNDERTAKEN BY CONTRACTOR.

SEDIMENT FENCE:

1. NOT TO BE LOCATED IN AREAS OF CONCENTRATED FLOW.
2. NORMALLY LOCATED ALONG THE CONTOUR WITH A MAXIMUM CATCHMENT AREA 0.6Ha PER 100m LENGTH OF FENCE
3. WOVEN FABRICS ARE PREFERRED, NON-WOVEN FABRICS MAY BE USED ON SMALL WORK SITES, I.E. OPERATIONAL PERIOD LESS THAN 6 MONTHS OR ON SITES WHERE SIGNIFICANT SEDIMENT RUNOFF IS NOT EXPECTED
4. WHERE FENCES NEED TO BE LOCATED ACROSS THE CONTOUR THE LAYOUT SHALL CONFORM TO 'TYPICAL LAYOUT' ACROSS GRADE.
5. FENCES ARE REQUIRED 2m MIN. FROM TOE OF CUT OR FILL BATTERS, WHERE NOT PRACTICAL ONE FENCE CAN BE AT THE TOE WITH A SECOND FENCE 1m MIN AWAY. FENCE SHOULD NOT BE LOCATED PARALLEL WITH TOE IF CONCENTRATION OF FLOW WILL OCCUR BEHIND THE FENCE

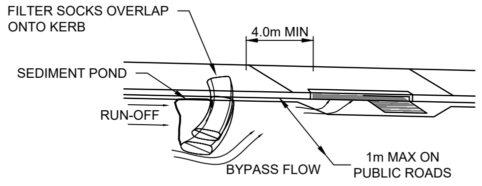
TEMPORARY CONSTRUCTION ENTRY / EXIT:

1. ADJACENT STORMWATER RUNOFF TO BE DIVERTED AWAY FROM ENTRY/EXIT.
2. WHEEL-WASH OR SPRAY UNIT MAY BE REQUIRED DURING WET WEATHER.

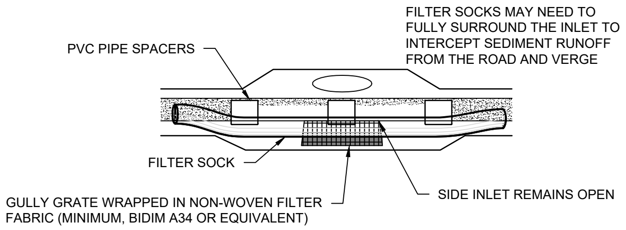
STANDARD SPECIFICATIONS:

DRAWING TO BE READ IN CONJUNCTION WITH INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) AUSTRALASIA BEST PRACTICES STANDARD DRAWINGS & SPECIFICATIONS. IECA STANDARD DRAWINGS GENERALLY AS LISTED BELOW BUT NOT LIMITED TO:

- EXIT-01 - CONSTRUCTION EXIT - ROCK PAD
- EXIT-02 - CONSTRUCTION EXIT - ROCK PAD
- EXIT-03 - ROCK PADS FOR BUILDING SITES
- CD-01 - CATCH DRAINS
- CD-02 - CATCH DRAINS - EARTH LINED
- RCD-01 - CHECK DAMS
- FF-01 - FILTER FENCE
- SF-01 - SEDIMENT FENCE
- SF-02 - SEDIMENT FENCE
- ESC-02 - GRATED STORMWATER (FIELD) INLET SEDIMENT TRAP
- ESC-03 - KERB INLET SEDIMENT TRAPS
- R-01 - RENEGOTIATION - GENERAL



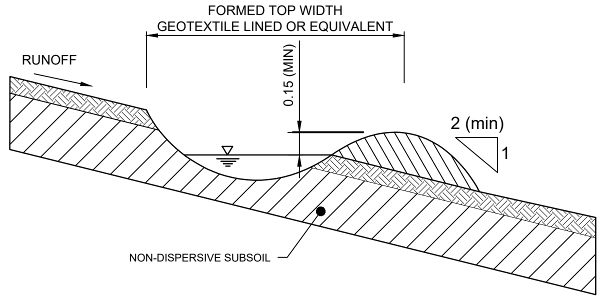
(a) ON-GRADE KERB INLET SEDIMENT TRAP



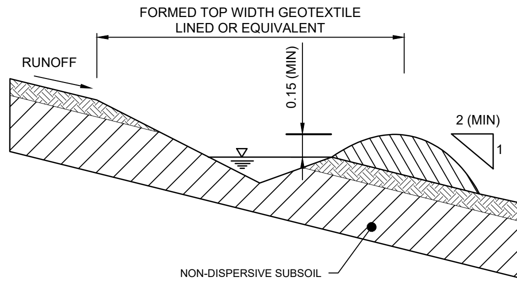
(b) SAG INLET SEDIMENT TRAP

KERB INLET PROTECTION

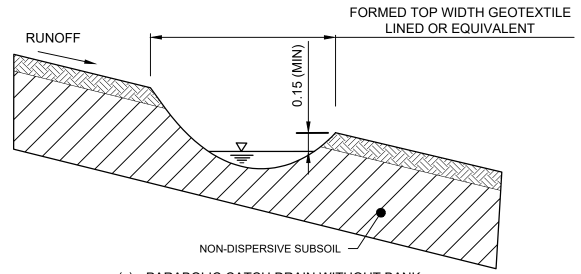
SCALE N.T.S.



(a) PARABOLIC CATCH DRAIN WITH DOWN-SLOPE BANK



(b) TRIANGULAR V-DRAIN WITH DOWN-SLOPE BANK



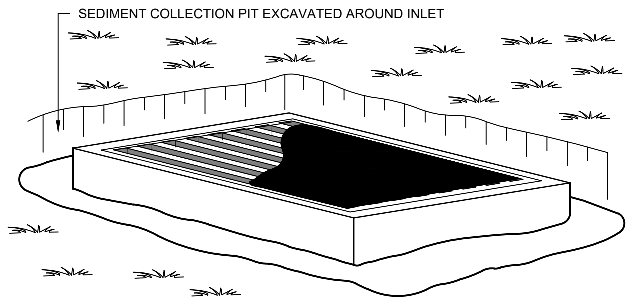
(c) PARABOLIC CATCH DRAIN WITHOUT BANK

CONSTRUCTED DIMENSIONS OF PARABOLIC CATCH DRAINS		
DRAIN TYPE	FORMED TOP WIDTH WITH OR WITHOUT BANK	FORMED DEPTH WITH OR WITHOUT BANK
TYPE - A	1.6m	0.3m
TYPE - B	2.4m	0.45m
TYPE - C	3.6m	0.65m

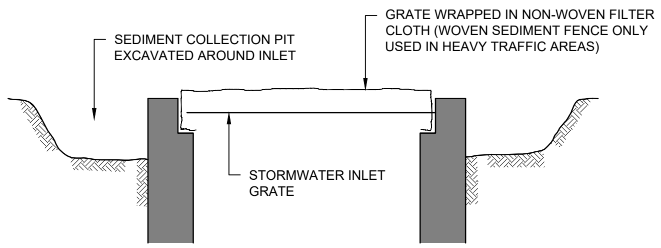
CONSTRUCTED DIMENSIONS OF TRIANGULAR V-DRAINS		
DRAIN TYPE	FORMED TOP WIDTH WITH OR WITHOUT BANK	FORMED DEPTH WITH OR WITHOUT BANK
TYPE - AV	2.0m	0.3m
TYPE - BV	2.7m	0.45m
TYPE - CV	3.9m	0.65m

LINED CATCH DRAIN

SCALE N.T.S.



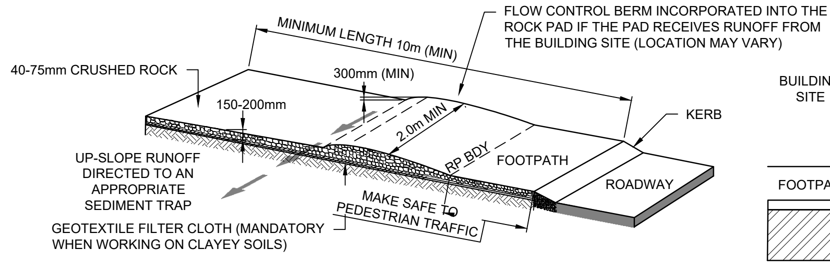
(a) FABRIC WRAP DROP INLET PROTECTION WITH TRENCH



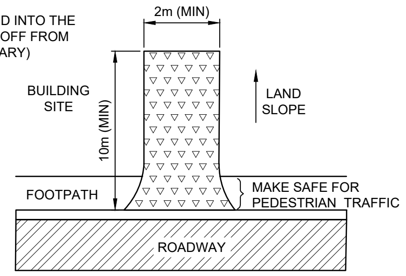
(b) TYPICAL DETAILS OF EXCAVATED SEDIMENT COLLECTION TRENCH

FIELD INLET PROTECTION

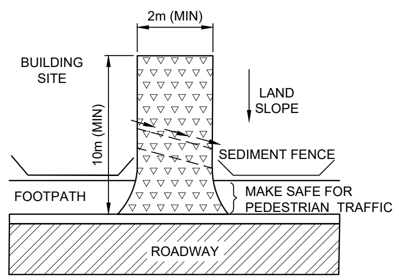
SCALE N.T.S.



(a) ROCK ENTRY/EXIT PAD FOR BUILDING SITES



(b) ROCK PAD SLOPING AWAY FROM ROAD



(c) ROCK PAD SLOPING TOWARD THE ROAD

CONSTRUCTION NOTES:

MATERIALS

1. ROCK: WELL GRADED, HARD, ANGULAR, EROSION RESISTANT ROCK, NOMINAL DIAMETER OF 40 TO 75mm.
2. FOOTPATH STABILISING AGGREGATE: 25 TO 50mm GRAVEL OR AGGREGATE (IF REQUIRED).
3. GEOTEXTILE FABRIC: HEAVY-DUTY, NEEDLE-PUNCHED, NON-WOVEN FILTER CLOTH ('BIDIM' A24 OR EQUIVALENT).

INSTALLATION

4. INSPECT ALL SITE ENTRY AND EXIT POINTS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER RUNOFF-PRODUCING RAINFALL, OR OTHERWISE AT FORTNIGHTLY INTERVALS.
5. IF SAND, SOIL, SEDIMENT OR MUD IS TRACKED OR WASHED ONTO THE ADJACENT SEALED ROADWAY, THEN SUCH MUST BE PHYSICALLY REMOVED, FIRST USING A SQUARE-EDGED SHOVEL, AND THEN A STIFF-BRISTLED BROOM, AND THEN BY A MECHANICAL VACUUM UNIT, IF AVAILABLE.
6. IF NECESSARY FOR SAFETY REASONS, THE ROADWAY SHALL ONLY BE WASHED CLEAN AFTER ALL REASONABLE EFFORTS HAVE BEEN TAKEN TO SHOVEL AND SWEEP THE MATERIAL FROM THE ROADWAY.
7. WHEN THE VOIDS BETWEEN THE ROCK BECOMES FILLED WITH MATERIAL AND THE EFFECTIVENESS OF THE ROCK PAD IS REDUCED TO A POINT WHERE SEDIMENT IS BEING TRACKED OFF THE SITE, A NEW 100mm LAYER OF ROCK MUST BE ADDED AND/OR THE ROCK PAD MUST BE EXTENDED.
8. ENSURE ANY ASSOCIATED DRAINAGE CONTROL MEASURES (e.g. FLOW CONTROL BERM) ARE MAINTAINED IN ACCORDANCE WITH THEIR DESIRED OPERATIONAL CONDITION.
9. DISPOSE OF SEDIMENT AND DEBRIS IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

ROCK PADS FOR BUILDING SITES

SCALE N.T.S.

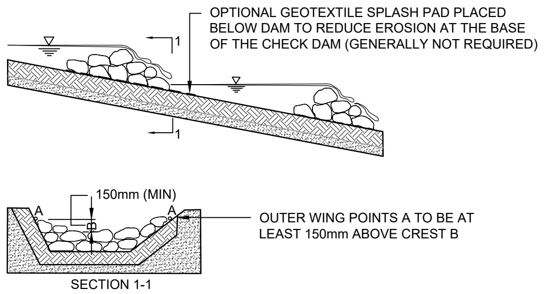
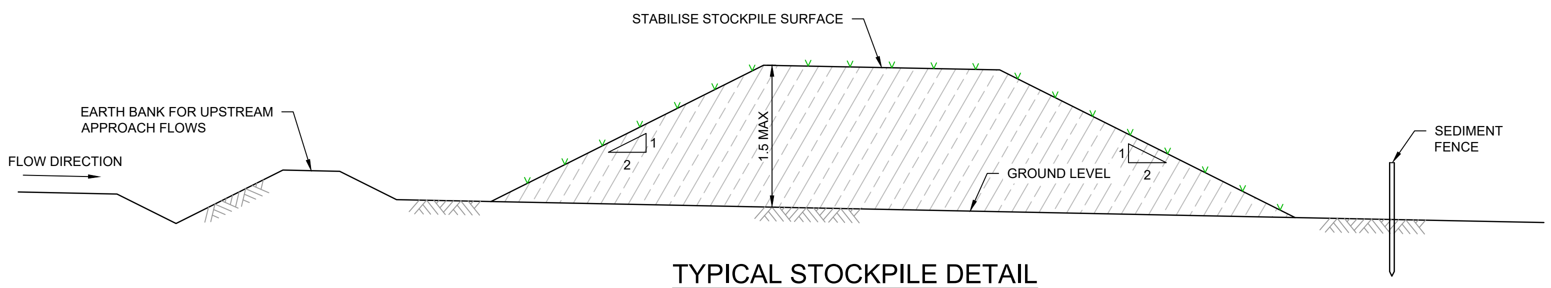


FIGURE 1 - LAYOUT PROFILE OF CHECK DAMS (ROCK CHECK DAMS SHOWN)

ROCK CHECK DAMS

SCALE N.T.S.



TYPICAL STOCKPILE DETAIL

SCALE N.T.S.

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North Point | Scale | Horiz. Datum: LOCAL | Vert. Datum: AHD | RL Datum

Client: THOMPSON BUILDING GROUP

Consultant: ARCOS — CIVIL | STRUCTURAL | GEOTECHNICAL — SUNSHINE COAST | BRISBANE | GOLD COAST — www.arcosgroup.com.au | ABN 51 640 311 842

Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

Drawn: KT | Design: HD | Check: GM

Approved: GRANT MINCHEV RPEQ 35023 | Approved Date: 19.08.25 | Signed

Drawing: EROSION & SEDIMENT CONTROL NOTES & STANDARD DETAILS

Project No.: 2500277 | Drawing No.: OPW-C-231 | Rev No.: A

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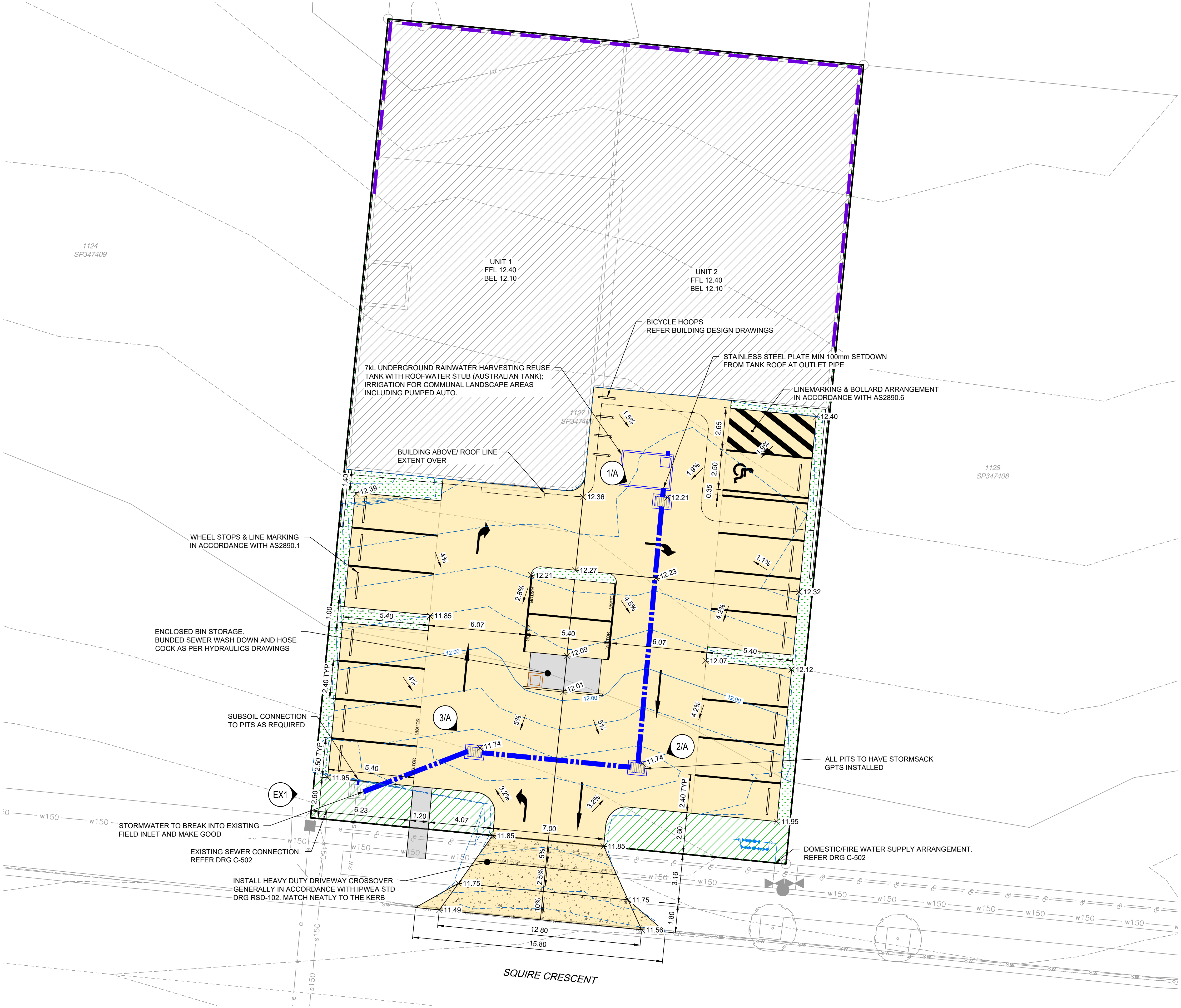

EXISTING LEGEND

	SUBJECT PROPERTY BOUNDARY
4.00	MAJOR CONTOUR
	MINOR CONTOUR
s150	SEWER MAIN DN150
w150	WATER MAIN DN150
c	U/G TELECOMMS
e	ELECTRICAL U/G
sw	STORMWATER
/ / /	FENCE
20.000	SURFACE LEVEL

PROPOSED LEGEND

	CONCRETE DRIVEWAY CROSSOVER
	INTERNAL CONCRETE DRIVEWAY
	CONCRETE PATH
	DWELLING
	LANDSCAPE
	LANDSCAPE BUFFER
	RETAINING WALL - BUILDING WORKS
	STORMWATER
50.00	MAJOR CONTOUR 0.5m INTERVAL
	MINOR CONTOUR 0.1m INTERVAL
20.000	SURFACE LEVEL
3%	CROSSFALL/SLOPE
	SYMBOLS

NOTES:

1. FOR GENERAL & ROADWORKS/DRIVEWAY NOTES REFER DRG C-011.

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Client: THOMPSON BUILDING GROUP

Consultant: ARCOS

CIVIL | STRUCTURAL | GEOTECHNICAL
SUNSHINE COAST | BRISBANE | GOLD COAST
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Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

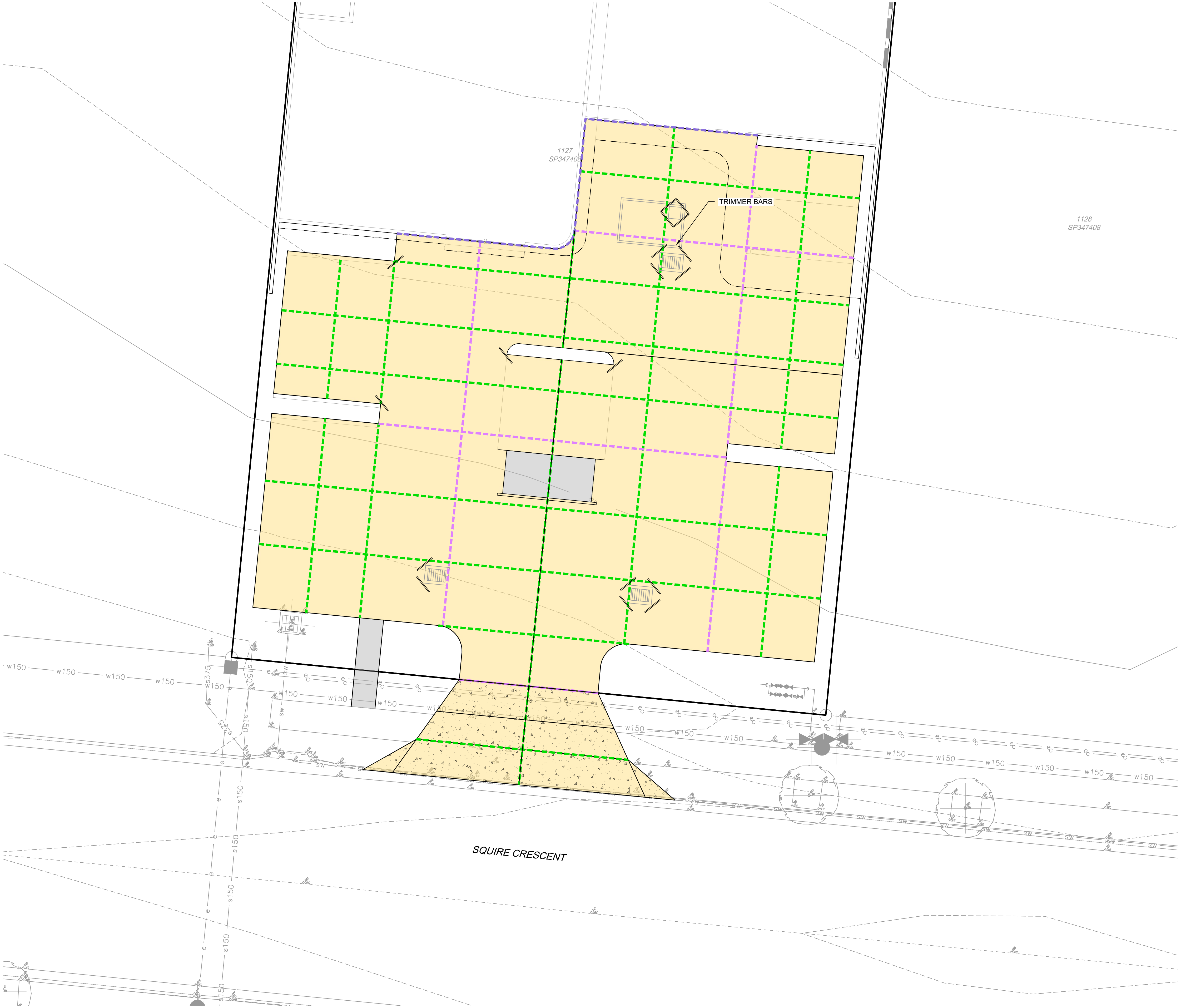
Drawn	KT
Design	HD
Check	GM

Approved: GRANT MINCHEV RPEQ 35023
Approved Date: 19.08.25
Signed

Drawing: DEVELOPMENT SITE PLAN

Project No.: 2500277
Drawing No.: OPW-C-301
Rev No.: A

Status: FOR APPROVAL
Sheet Size: A1



EXISTING LEGEND

- SUBJECT PROPERTY BOUNDARY
- 4.00 MAJOR CONTOUR
- MINOR CONTOUR
- s150 SEWER MAIN DN150
- w150 WATER MAIN DN150
- c U/G TELECOMMS
- e ELECTRICAL U/G
- sw STORMWATER
- FENCE
- 20.000 SURFACE LEVEL

PROPOSED LEGEND

- CONCRETE DRIVEWAY CROSSOVER
- INTERNAL CONCRETE DRIVEWAY
- CONCRETE PATH
- CONTROL JOINT (CJ)
- EXPANSION JOINT (EJ & KJ)
- ISOLATION JOINT (IJ)

NOTES:

1. FOR GENERAL NOTES REFER DRG C-011.
2. FOR CONCRETE DETAILS REFER TO DRG C-372.

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Client: THOMPSON BUILDING GROUP

Consultant: ARCOS
CIVIL | STRUCTURAL | GEOTECHNICAL
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Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

Drawn KT
Design HD
Check GM

Drawing: CONCRETE JOINTING PLAN

Project No. 2500277
Drawing No. OPW-C-371
Rev No. A

Approved GRANT MINCHEV RPEQ 35023
Approved Date 19.08.25
Signed

Status FOR APPROVAL
Sheet Size A1

DOWEL BAR SCHEDULE U.N.O

SLAB THICKNESS (mm)	DIA. (mm)	MIN LENGTH (mm)	MAX SPACING (mm)
125	16	350	300
150	20	400	300
150-200	24	450	300

TABLE IN ACCORDANCE WITH AS3727

CONCRETE DETAILS

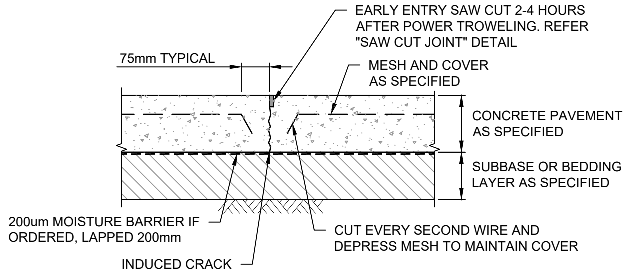
	HEAVY DUTY DRIVEWAY CROSSOVER	PATHS	INTERNAL HEAVY DUTY DRIVEWAY	INTERNAL BIN PADS
DEPTH (D)	175mm	125mm	150mm	125mm
CONC. STRENGTH (f'c)	32 MPa	32 MPa	32 MPa	25 MPa
REINF. MESH	SL82	SL72	SL82	SL72

TABLE IN ACCORDANCE WITH COUNCIL REQUIREMENTS AND AS3727

MESH COVER

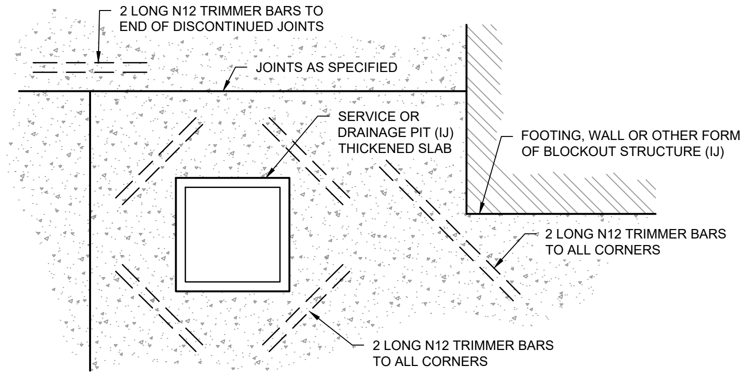
TOP	50mm
SIDES	50mm
SIDE (CONTROL JOINT)	75mm (FORMED JOINT) 75mm (WEAKENED PLANE JOINT)

NOTE:
- SUBGRADE (MIN CBR 5%) TO BE CONFIRMED BY 4 DAY SOAKED CBR TESTING
- CONCRETE PATH JOINTS IN ACCORDANCE WITH IPWEA RS-065 FOR PATHS
- HARDSTAND CONSTRUCTION AND JOINTING TO BE IN ACCORDANCE WITH THE 'GUIDE TO RESIDENTIAL STREETS & PATHS' - CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA FOR DRIVEWAYS



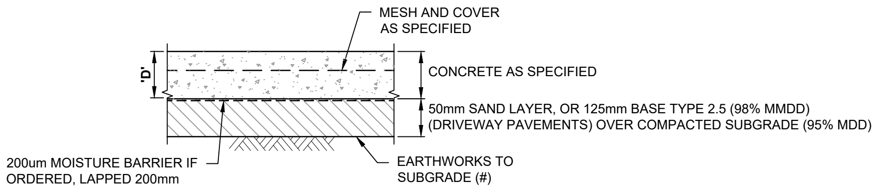
SAWN CONTRACTION JOINT (CJ)

SCALE N.T.S
(MAX JOINT SPACING; PATHS 2m NOM OR PATH WIDTH, SLABS 6m OR 1.5 TIMES WIDTH OF SLAB PANEL)



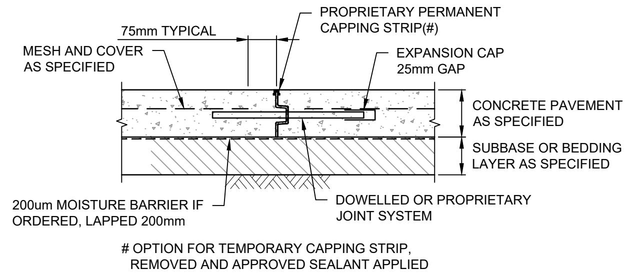
TYPICAL TRIMMER BAR ARRANGEMENT AT INTERNAL CORNERS

SCALE N.T.S



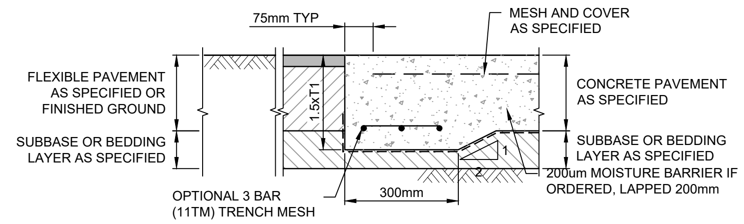
TYPICAL CONCRETE PAVEMENT

SCALE N.T.S



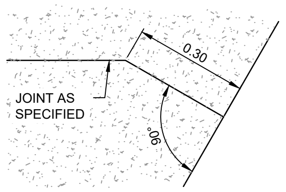
EXPANSION JOINT (KJ) WITH KEY

SCALE N.T.S
(MAX JOINT SPACING; 12m)



CONCRETE EDGE THICKENING (ET1)

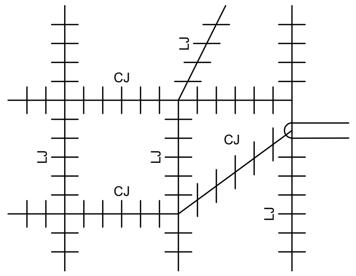
SCALE N.T.S



JOINT TERMINATION DETAIL OBLIQUE SLAB EDGE

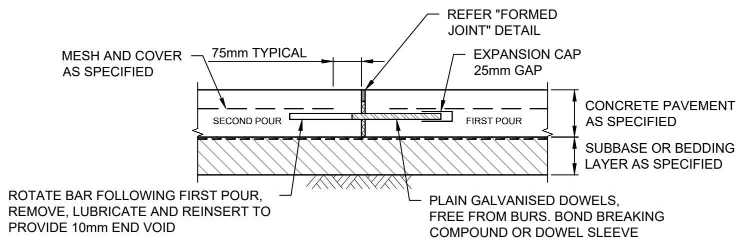
SCALE N.T.S

NOTE: WHERE CONTRACTION JOINTS ARE SKEW TO THE MAIN JOINTING LAYOUT. ENSURE THAT DOWELS ARE ALIGNED PARALLEL WITH THE MAIN JOINTING LAYOUT.



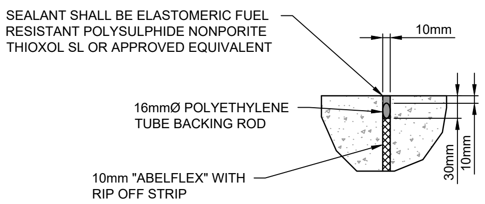
DOWEL ORIENTATIONS

SCALE N.T.S



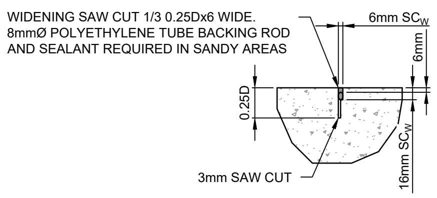
EXPANSION JOINT (EJ), DOWEL BAR

SCALE N.T.S



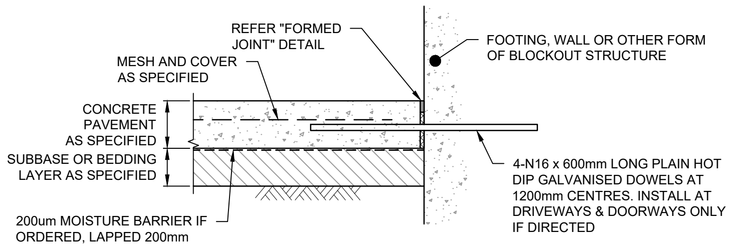
FORMED JOINT

SCALE N.T.S



SAW CUT JOINT

SCALE N.T.S



ISOLATION JOINT ABUTTING STRUCTURE (IJ)

SCALE N.T.S

Rev	Revision Description	Date	Approved
A	FOR APPROVAL	19.08.25	GM

North Point

Scale: 0m 0.125 0.25 (A1 1:5); 0m 0.25 0.5 (A1 1:10)

Horiz. Datum: LOCAL
Vert. Datum: AHD
RL Datum

Client: THOMPSON BUILDING GROUP

Consultant: ARCOS
CIVIL | STRUCTURAL | GEOTECHNICAL
SUNSHINE COAST | BRISBANE | GOLD COAST
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Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

Drawn: KT
Design: HD
Check: GM
Approved: GRANT MINCHEV, RPEQ 35023
Approved Date: 19.08.25
Signed

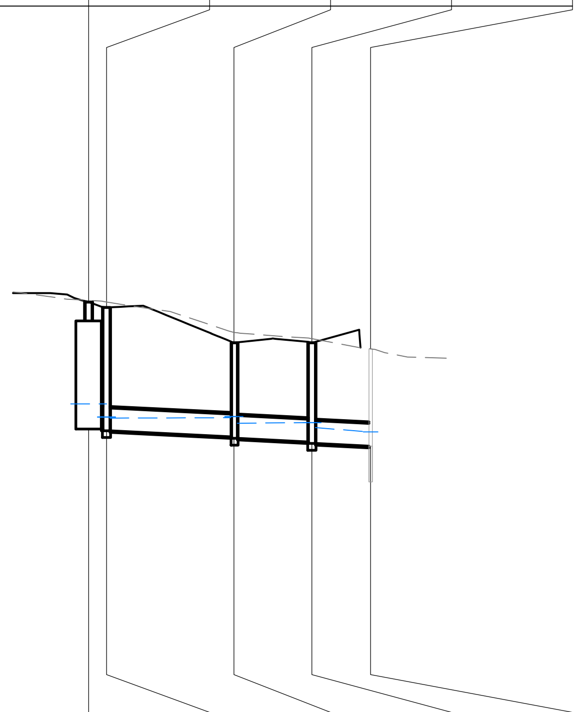
Drawing: CONCRETE JOINTING DETAILS

Project No.: 2500277
Drawing No.: OPW-C-372
Rev No.: A
Status: FOR APPROVAL
Sheet Size: A1

STRUCTURE NAME	1/A	2/A	3/A	4/A	EX1
STRUCTURE DESCRIPTION	TANK	STD FIELD INLET 900x600	STD FIELD INLET 900x600	STD FIELD INLET 900x600	EXISTING PIT

PIT SIZE

REFER TO IPWEA DS-050	
0-1.0 DEPTH	600mm x 600mm
1-1.5 DEPTH	600mm x 900mm
0-2.0 DEPTH	900mm x 900mm
2.0 GREATER	STANDARD MH WITH APPROVED INLET



	1/A – 2/A	2/A – 3/A	3/A – 4/A	4/A – EX1
PIPE SIZE (mm)	300	300	300	300
PIPE CLASS & TYPE	PP SN8	PP SN8	PP SN8	PP SN8
PIPE GRADE (%)	0.50%	0.50%	0.51%	0.51%
PIPE SLOPE (1 in X)	200.0	201.3	196.1	197.0
FULL PIPE VELOCITY (m/s)	0.60	0.66	0.81	1.02
NORMAL DEPTH VELOCITY (m/s)	1.35	1.38	1.46	1.53
PIPE FLOW (cumecs)	0.043	0.047	0.057	0.072
CAPACITY FLOW (cumecs)	0.099	0.098	0.100	0.100

DATUM RL 4.000

	1/A		2/A		3/A		4/A		EX1
HGL IN PIPE & WSE IN STRUCTURE	10.933	10.760	10.759	10.745	10.750 10.767	10.677	10.685	10.619	10.563
NATURAL SURFACE LEVEL	12.304		12.282		11.880		11.797		11.661
INVERT LEVEL		10.600	10.599	10.578	10.498	10.478	10.430	10.410	10.374 10.374
DEPTH TO INVERT		1.681	1.611	1.631	1.245	1.265	1.313	1.333	1.287 1.287
SETOUT LEVEL	12.281		12.209		11.742		11.742		11.661
SETOUT COORDS	4574.226 E	24262.438 N	4575.296 E	24260.525 N	4573.666 E	24243.747 N	4563.439 E	24244.741 N	4556.067 E 24242.301 N
CHAINAGE	0.000	0.244m	2.363	16.107m	19.220	9.415m	29.535	7.090m	37.301

LINE A

Rev	Revision Description	Date	Approved
A	FOR APPROVAL	19.08.25	GM

North Point

Scale: 0m 1.25 2.5 (A1 1:50); 0m 12.5 25 (A1 1:500)

Horiz. Datum: LOCAL
Vert. Datum: AHD
RL Datum

Client: THOMPSON BUILDING GROUP

Consultant: ARCOS
CIVIL | STRUCTURAL | GEOTECHNICAL
SUNSHINE COAST | BRISBANE | GOLD COAST
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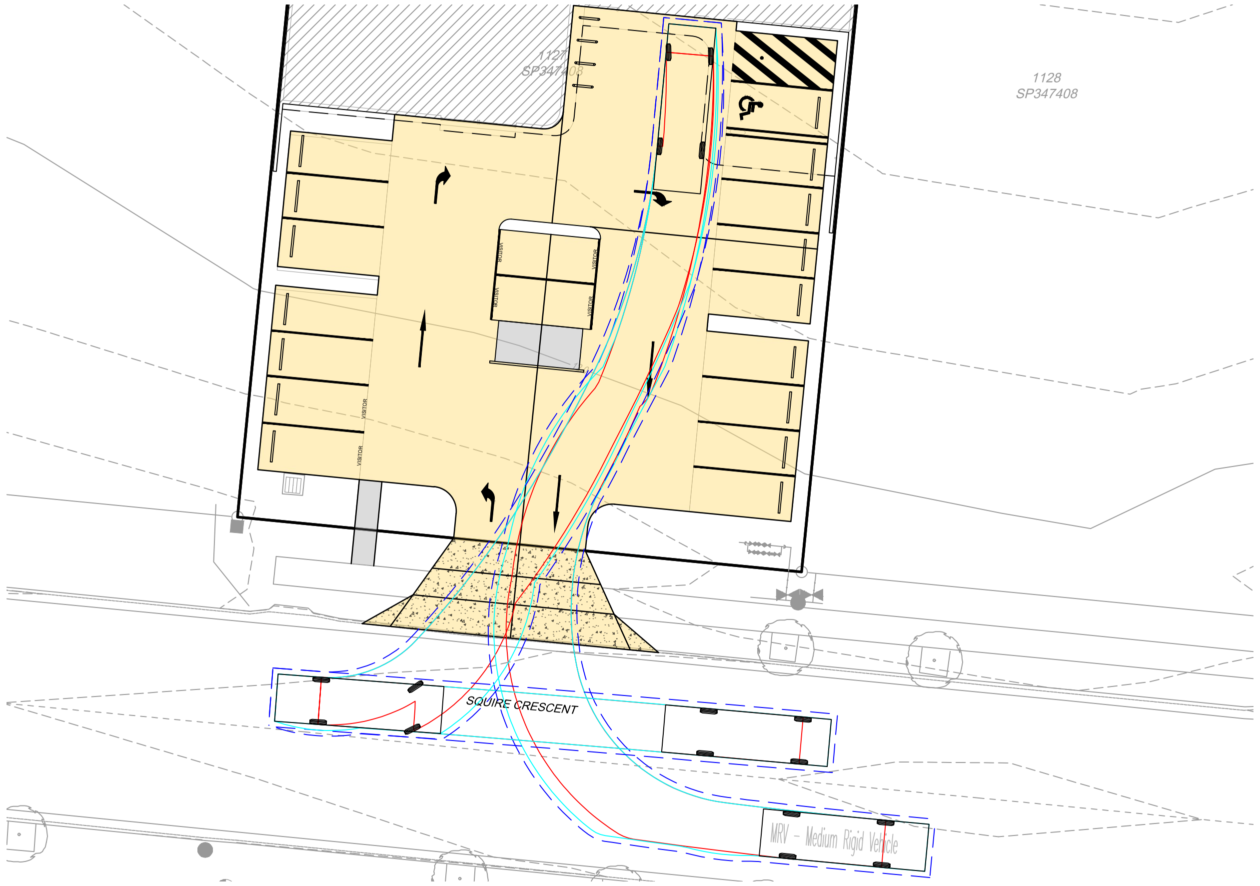
Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

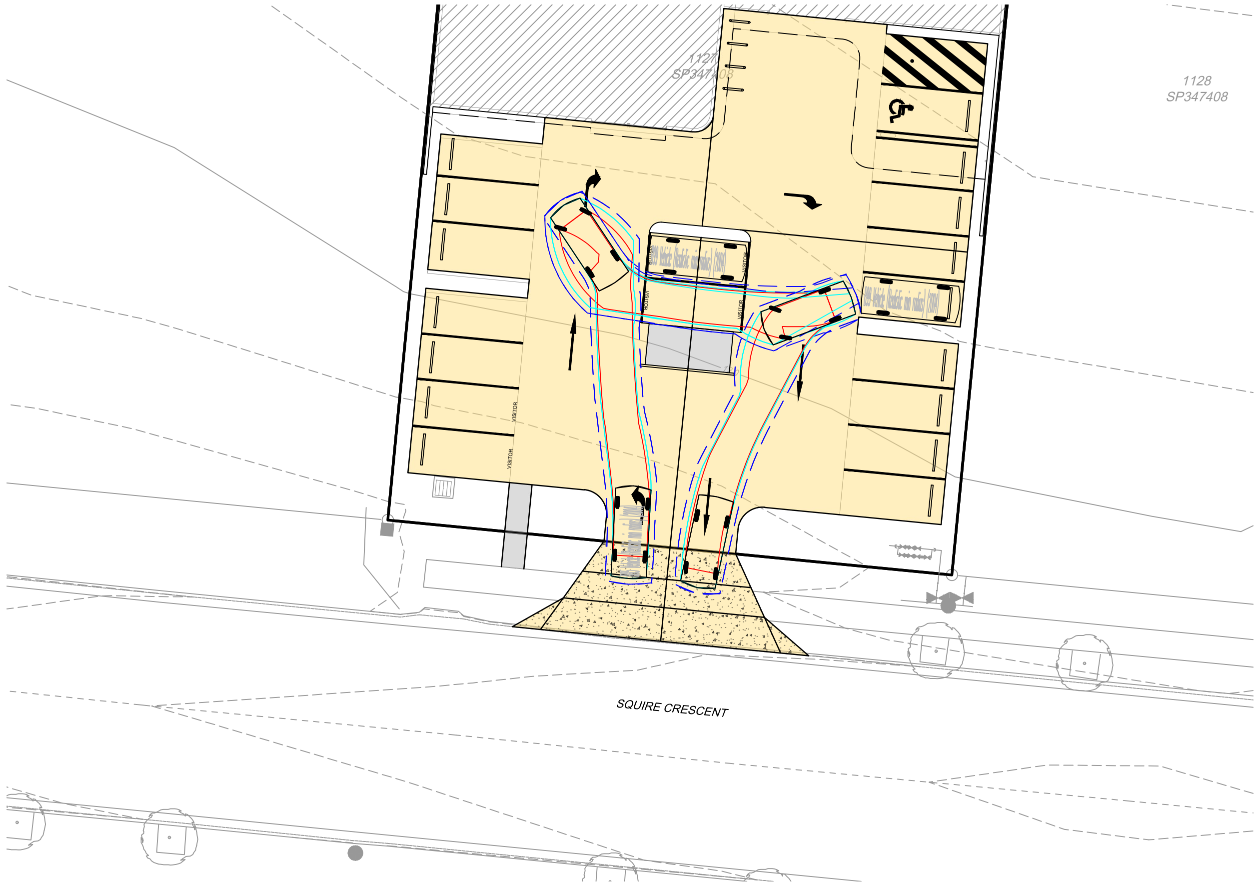
Drawn: KT
Design: HD
Check: GM
Approved: GRANT MINCHEV RPEQ 35023
Approved Date: 19.08.25
Signed

Drawing: STORMWATER LONGITUDINAL SECTIONS

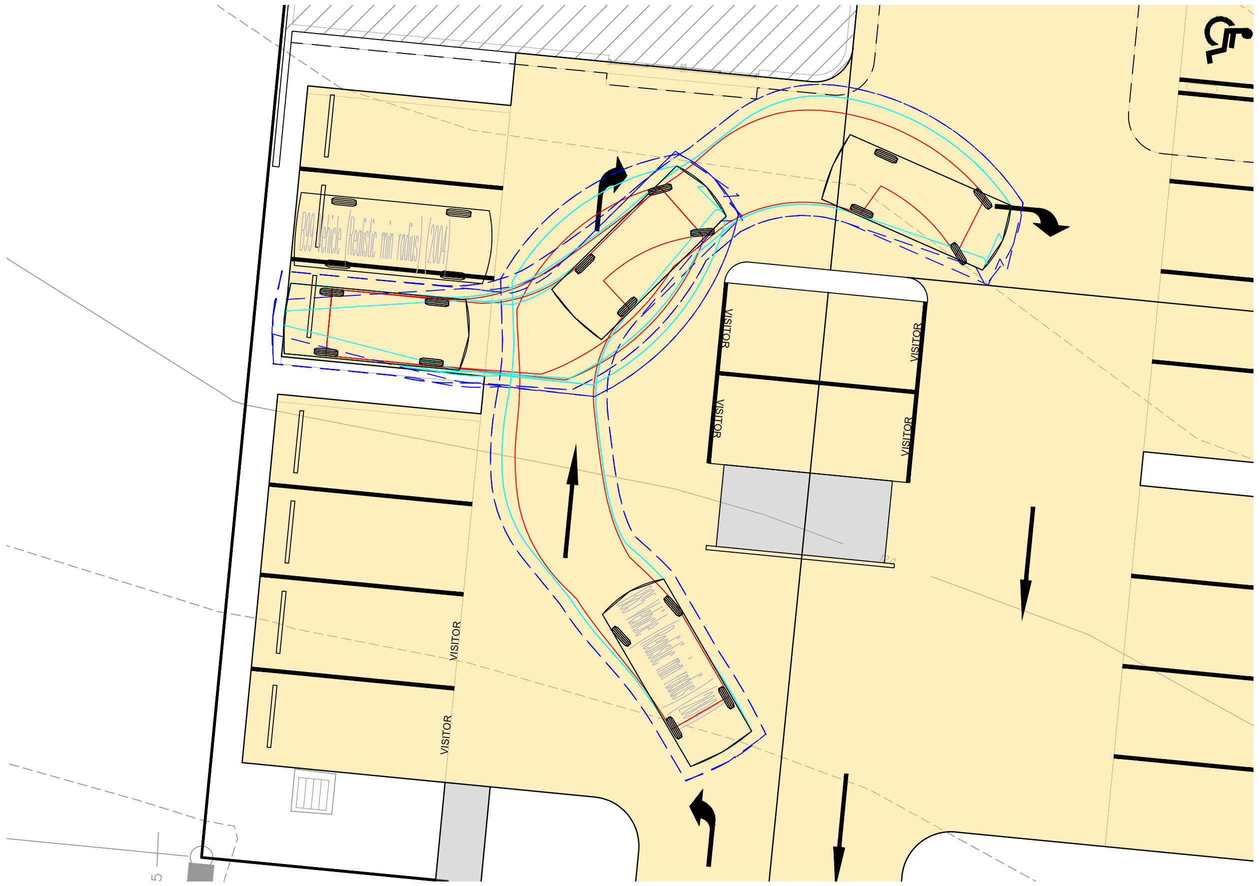
Project No.: 2500277
Drawing No.: OPW-C-411
Rev No.: A
Status: FOR APPROVAL
Sheet Size: A1



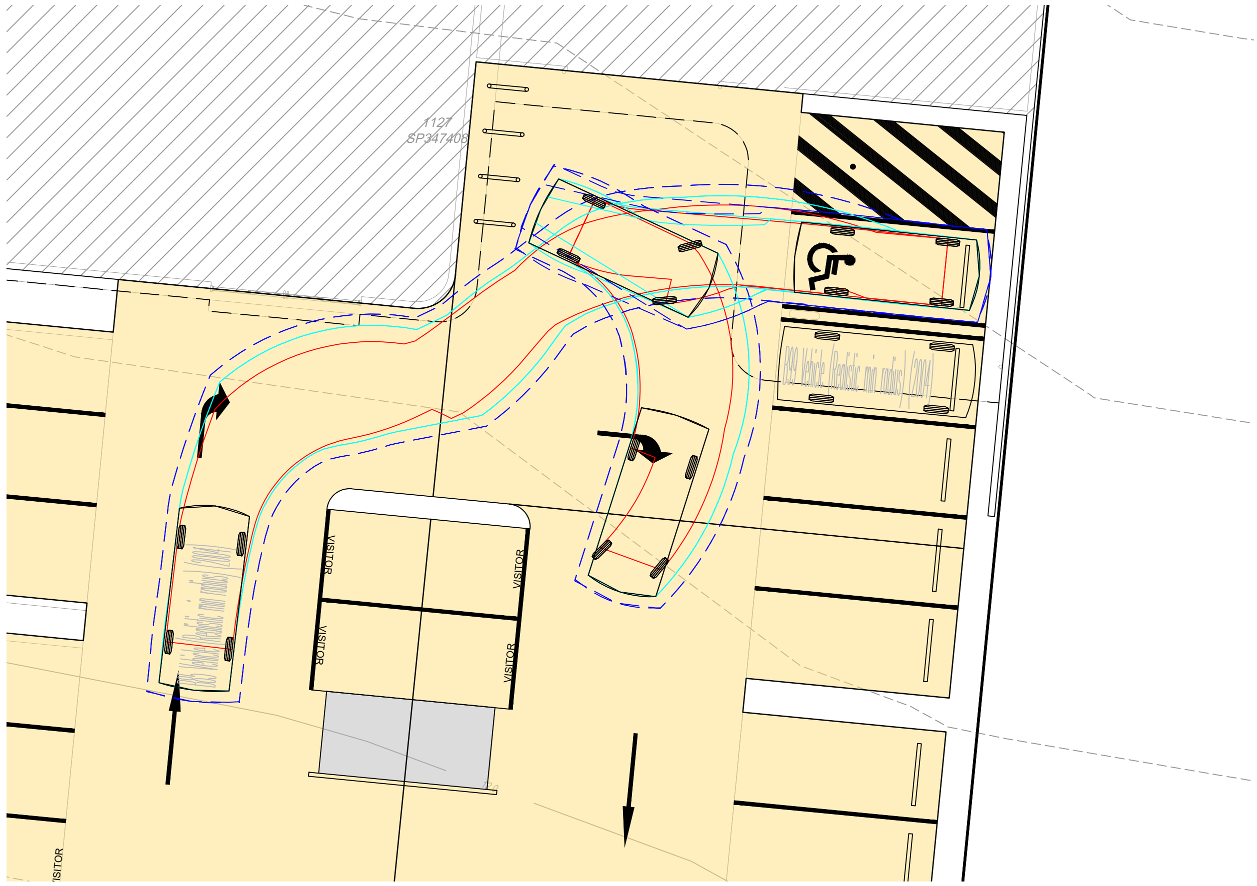
MRV - ACCESS & SERVICING
SCALE 1:200



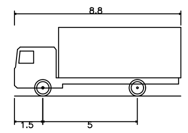
B85 ISLAND PARKING
SCALE 1:200



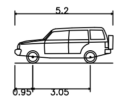
B85 - PARKING
SCALE 1:100



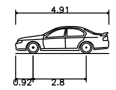
B85 - PWD PARKING
SCALE 1:100



MRV - Medium Rigid Vehicle	
Overall Length	8.800m
Overall Width	2.500m
Overall Body Height	3.633m
Min Body Ground Clearance	0.428m
Track Width	2.500m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	10.000m



B99 Vehicle (Realistic min radius) (2004)	
Overall Length	5.200m
Overall Width	1.940m
Overall Body Height	1.878m
Min Body Ground Clearance	0.272m
Track Width	1.840m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	6.250m



B85 Vehicle (Realistic min radius) (2004)	
Overall Length	4.910m
Overall Width	1.870m
Overall Body Height	1.421m
Min Body Ground Clearance	0.159m
Track Width	1.770m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	5.750m

Rev	Revision Description	Date	Approved
A	FOR APPROVAL	19.08.25	GM

North Point: N

Scale: 0m 2.5 5 (A1 1:100); 0m 5 10 (A1 1:200)

Horiz. Datum: LOCAL
Vert. Datum: AHD
RL Datum

Client: THOMPSON BUILDING GROUP

Consultant: ARCOS
CIVIL | STRUCTURAL | GEOTECHNICAL
SUNSHINE COAST | BRISBANE | GOLD COAST
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Project: WAREHOUSE DEVELOPMENT OPERATIONAL WORKS - CIVIL LOT 1127 AURA INDUSTRIAL PARK, BARINGA, QLD

Drawn: KT
Design: HD
Check: GM
Approved: GRANT MINCHEV RPEQ 35023
Approved Date: 19.08.25
Signed

Drawing: VEHICLE TRACKING PLAN

Project No.: 2500277
Drawing No.: SKT-C-001
Rev No.: A
Status: FOR APPROVAL
Sheet Size: A1