

# 134-140 OLD BATHURST ROAD, EMU PLAINS, NSW PROPOSED ALTERATIONS AND ADDITIONS STORMWATER CONCEPT DESIGN

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**LOCALITY PLAN**  
NOT TO SCALE

**WARNING:**  
EXISTING SERVICES HAVE BEEN PLOTTED FROM RECORDS SUPPLIED BY THE PUBLIC UTILITY AUTHORITIES. LOCATIONS HAVE BEEN INTERPRETED FROM THESE RECORDS AND ARE APPROXIMATE ONLY. EXTREME CAUTION SHOULD BE TAKEN WHEN EXCAVATING

**GENERAL NOTES**

- G1. ALL WORKMANSHIP, MATERIALS AND TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARD SPECIFICATIONS, STANDARD DRAWINGS.
- G2. ALL DIMENSIONS SHOWN FOR PLANS ARE IN METRES. ALL DIMENSIONS SHOWN FOR SECTIONS AND DETAILS ARE MILLIMETRES. UNLESS NOTED OTHERWISE.
- G3. DRAWINGS TAKE PREFERENCE OVER LOCAL COUNCIL STANDARD SPECIFICATIONS.
- G4. DRAWINGS SHALL NOT BE SCALED TO OBTAIN DIMENSIONS, LEVELS OR CHAINAGES. LARGER SCALE DETAIL DRAWING AND WRITTEN DIMENSIONS TAKE PREFERENCE.
- G5. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARD SPECIFICATIONS, TOGETHER WITH THE REQUIREMENTS OF ALL RELEVANT AUSTRALIAN STANDARDS AND CODES OF PRACTICE REFERRED TO THEREIN AND THE REQUIREMENTS OF ALL STATUTORY AUTHORITIES WHERE APPLICABLE.
- G6. ALL LOCATIONS, ORIENTATIONS AND LEVELS SHALL BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES FOUND SHALL BE REFERRED TO CONSULTANT ENGINEERS.
- G7. ALL AREAS NOT SUBJECT TO CONSTRUCTION WORKS SHALL BE RETAINED FREE FROM DISTURBANCE OF DAMAGE. TOPSOIL STOCKPILES SHALL BE LOCATED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE DEPRESSIONS. ALL OPEN EXCAVATIONS TO BE SEALED OFF TO PUBLIC ACCESS BY THE PROVISION OF SAFETY FENCING TO THE SATISFACTION OF CLIENT'S SUPERINTENDENT.
- G8. IN AREA WHERE THERE IS NO EXISTING STREET LIGHTING OR IS DEEMED INSUFFICIENT FOR NIGHT WORKS, THE CONTRACTOR SHALL PROVIDE FLOODLIGHTING FOR THE WORK SITE.
- G9. STATE SURVEY MARKS (SSM) AND PERMANENT MARKERS (PM) ARE TO BE RETAINED. THE CONTRACTOR MUST CONSULT WITH LOCAL COUNCIL SURVEYOR IF SSM OR PM ARE PRESENT PRIOR COMMENCEMENT OF WORK ON SITE.
- G10. TREE PROTECTION MEASURES ARE TO BE IN PLACE PRIOR TO COMMENCEMENT OF WORKS. ALL TREE WORKS INCLUDING ROOT PRUNING REQUIRE SUPERINTENDENT'S APPROVAL AND SHOULD BE SUPERVISED BY QUALIFIED ARBORIST. TREE WORKS ARE TO COMPLY WITH THE LOCAL COUNCIL SPECIFICATION.
- G11. IF TREE ROOTS ARE UNCOVERED DURING EXCAVATION AROUND TREES. PROJECT ARBORIST IS TO BE NOTIFIED TO APPROVE ROOT PRUNING METHODS.
- G12. SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE IMPLEMENTED PRIOR TO OR IN CONJUNCTION WITH THE FIRST PHASE OF EARTHWORKS AND SHALL BE REMOVED ONLY WHEN THE AREAS ABOVE IT HAVE BEEN STABILISED. EACH SEDIMENTATION AND EROSION CONTROL DEVICE SHALL BE INSPECTED PERIODICALLY & AFTER EACH STORM FOR STRUCTURAL DAMAGE OR CLOGGING BY SILT AND OTHER DEBRIS AND PROMPTLY DE-SILTED, REPAIRED OR REPLACED IF REQUIRED.
- G13. SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AT INLETS TO STORMWATER SYSTEMS TO TRAP THE SEDIMENT IN RUNOFF. THESE DEVICES SHALL COMPLY WITH RMS SPECIFICATION G38 - SOIL AND WATER MANAGEMENT.
- G14. WHEN ENTERING ADJACENT PRIVATE PREMISES, PLEASE CONTACT OWNER OF PROPERTY FOR PERMISSION.
- G15. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND PROVISION OF ANY TEMPORARY SUPPORT STRUCTURES REQUIRED DURING THE CONSTRUCTION WORKS.
- G16. EXISTING STRUCTURES SHALL BE PROTECTED FROM CONSTRUCTION LOADINGS AND ACTIVITIES. ALL DAMAGE SHALL BE RECTIFIED AT CONTRACTOR EXPENSE.
- G17. U.N.O DENOTES UNLESS NOTED OTHERWISE.

**EXISTING SERVICES**

- E1. UNDERGROUND SERVICES SHOWN ON THE DRAWING ARE INDICATIVE ONLY. MAJCON PTY LTD WILL NOT ACCEPT ANY LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN. CONTRACTOR TO OBTAIN UNDERGROUND SERVICES INFORMATION FROM DIAL BEFORE YOU DIG 1100 AND VERIFY THE LOCATION AND DEPTH OF UNDERGROUND SERVICES IN ACCORDANCE WITH AS 5488. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING SERVICES FROM CONSTRUCTION LOADINGS AND PROVIDING TEMPORARY SERVICES IF NECESSARY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO RECTIFY ANY DAMAGE TO EXISTING SERVICES.
- E2. THE CONTRACTOR SHALL COORDINATE WITH RELEVANT UTILITY AUTHORITIES WITH RESPECT TO ANY TEMPORARY DIVERSIONS OR SUPPLY IF NECESSARY.
- E3. ALL UTILITY SERVICE COVERS SHALL BE RAISED OR LOWERED TO FINISH FLUSH WITH FINISHED SURFACE AND COMPLY WITH ALL RELEVANT SERVICE AUTHORITY REQUIREMENT. NO UTILITY SERVICE COVER ARE TO BE COVERED OR BURIED.
- E4. ANY CONFLICTS WITH EXISTING UNDERGROUND SERVICES SHALL BE REFERRED TO CONSULTANT ENGINEER FOR CLARIFICATION.

**STORMWATER**

- SW1. ALL STORMWATER PIPES SHALL BE CLASS 4 RUBBER RING JOINT BELLED SOCKET REINFORCED CONCRETE PIPE UNLESS NOTED OTHERWISE.
- SW2. MINIMUM COVER FOR ALL STORMWATER PIPES SHALL BE 450mm UNDER ROADS AND 350mm ELSEWHERE, UNLESS NOTED OTHERWISE IN THE DRAWING.
- SW3. DIMENSIONS OF PIPES AND PITS ARE SHOWN ON DRAWING. IF THESE INFORMATION ARE NOT SHOWN, THE CONTRACTOR SHALL SEEK CLARIFICATION FOR CONSULTANT ENGINEER.
- SW4. ALL ACTIVE STORMWATER CONNECTIONS SHALL BE REINSTATED AFTER CONSTRUCTION.
- SW5. THE MINIMUM CLEARANCE TO EXISTING SERVICES SHALL BE IN ACCORDANCE WITH RELEVANT UTILITY AUTHORITIES REQUIREMENTS AND IN ACCORDANCE WITH AS3500.3.
- SW6. EXISTING STORMWATER PIPES THAT ARE NO LONGER IN SERVICE ARE TO BE CAPPED OFF AT BOTH ENDS AND SHALL REMAIN IN SITU UNLESS DAMAGED. PIPES THAT ARE STRUCTURALLY UNSOUND SHALL BE FILLED WITH SAND CEMENT MATERIAL. PIPES THAT ARE CONFLICTING WITH NEW STORMWATER SYSTEM ARE TO BE DEMOLISHED AND REMOVED.
- SW7. ALL PIT COVERS AND GRATES SHALL BE CLASS D AND COMPLY WITH THE REQUIREMENTS OF AS3996 UNLESS NOTED OTHERWISE.
- SW8. ALL PIT COVERS AND GRATES SHALL BE BICYCLE SAFE UNLESS NOTED OTHERWISE.
- SW9. HOT DIPPED GALVANISED STEP IRONS SHALL BE PROVIDED FOR PITS THAT ARE DEEPER THAN 1000mm AND IN ACCORDANCE WITH AS1657.
- SW10. STEEL GRATES AND FRAMES FOR PITS ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANISED AFTER FABRICATION.
- SW11. ALL GALVANISING TO BE IN ACCORDANCE WITH AS2312 AND AS4680. GALVANISING THREADED FASTENERS ARE TO BE IN ACCORDANCE WITH AS1214. MINIMUM GALVANISING 600G/SQm OTHER THAN ON FASTENERS.
- SW12. ALL WELDS TO COMPLY WITH AS1554. FILLET WELDS TO BE NOT LESS THAN 6mm UNLESS NOTED OTHERWISE.

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REV	DESCRIPTION	DATE	APPROVED
01	ISSUED FOR INFORMATION	02 09 2019	

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APPROVED	DRAWN HL	DRAWING TITLE	PROJECT TITLE
DRG. CH'KED	DESIGN HL	CONCEPT DRAINAGE DESIGN	PROPOSED ALTERATIONS & ADDITIONS
DES. CH'KED	DATE SEP 2019	COVER PAGE	134-140 OLD BATHURST ROAD
	SCALE AS SHOWN		EMU PLAINS N.S.W. 2750

CLIENT	PROJECT TITLE
ACO POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

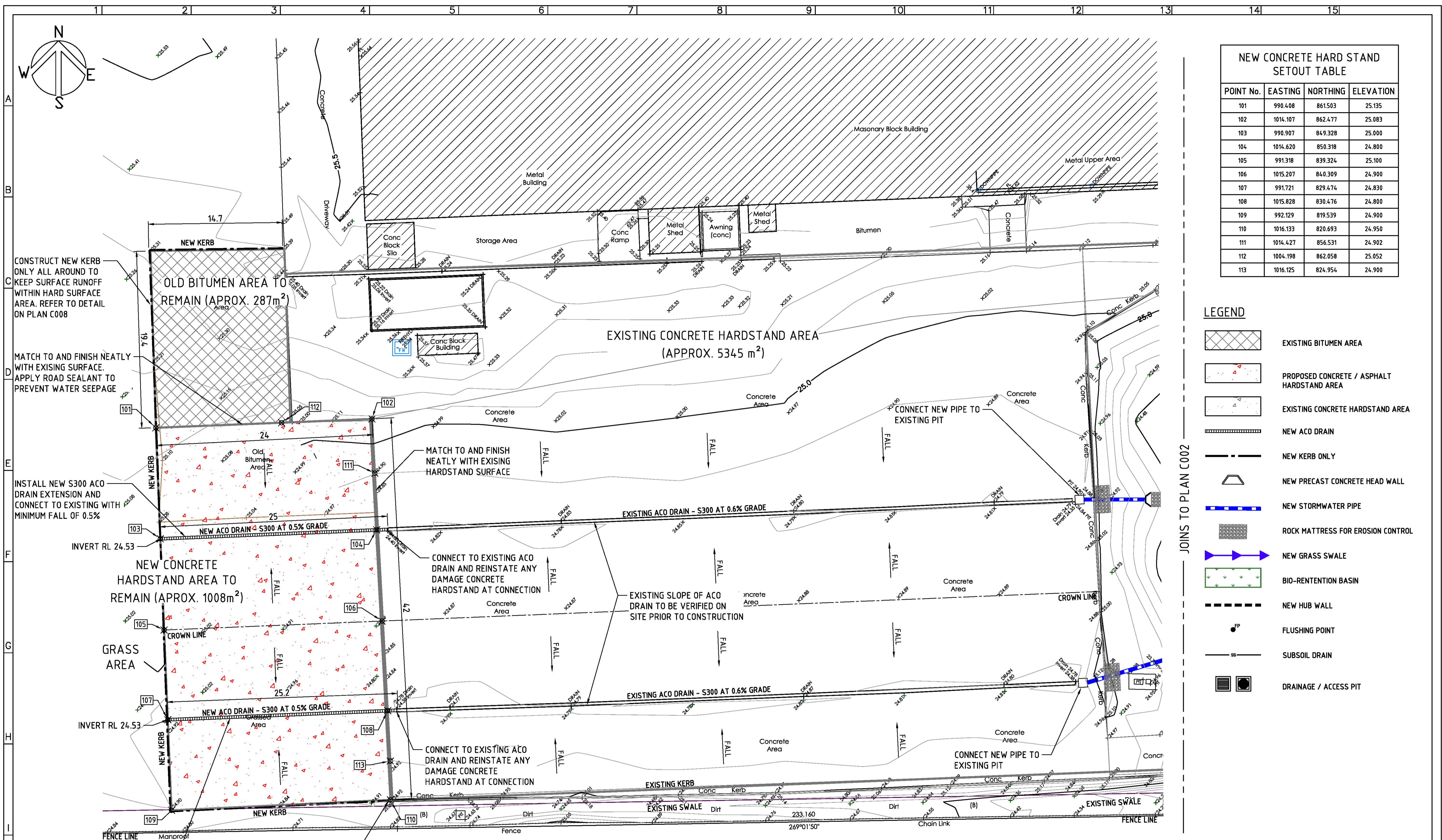
CLIENT	PROJECT TITLE
ACO POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

CLIENT	PROJECT TITLE
ACO POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

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DRAWING STATUS ISSUED FOR INFORMATION NOT FOR CONSTRUCTION	DRAWING No.      REVISION
	C000                      01



CONSTRUCT NEW KERB ONLY ALL AROUND TO KEEP SURFACE RUNOFF WITHIN HARD SURFACE AREA. REFER TO DETAIL ON PLAN C008

MATCH TO AND FINISH NEATLY WITH EXISING SURFACE. APPLY ROAD SEALANT TO PREVENT WATER SEEPAGE

INSTALL NEW S300 ACO DRAIN EXTENSION AND CONNECT TO EXISTING WITH MINIMUM FALL OF 0.5%

INSTALL NEW S300 ACO DRAIN EXTENSION AND CONNECT TO EXISTING WITH MINIMUM FALL OF 0.5%

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REVISION	DESCRIPTION	DATE	APPROVED
02	ISSUED FOR INFORMATION - REVISED DRAWING FOR DA SUBMISSION	09 09 2019	
01	ISSUED FOR INFORMATION	02 09 2019	

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DES. CH'KED

DRAWN HL  
DESIGN HL  
DATE SEP 2019  
SCALE AS SHOWN

DRAWING TITLE  
EXTERNAL HARDSTAND AREA  
CONCEPT DRAINAGE PLAN 1 OF 2

PROJECT TITLE  
PROPOSED ALTERATIONS & ADDITIONS  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

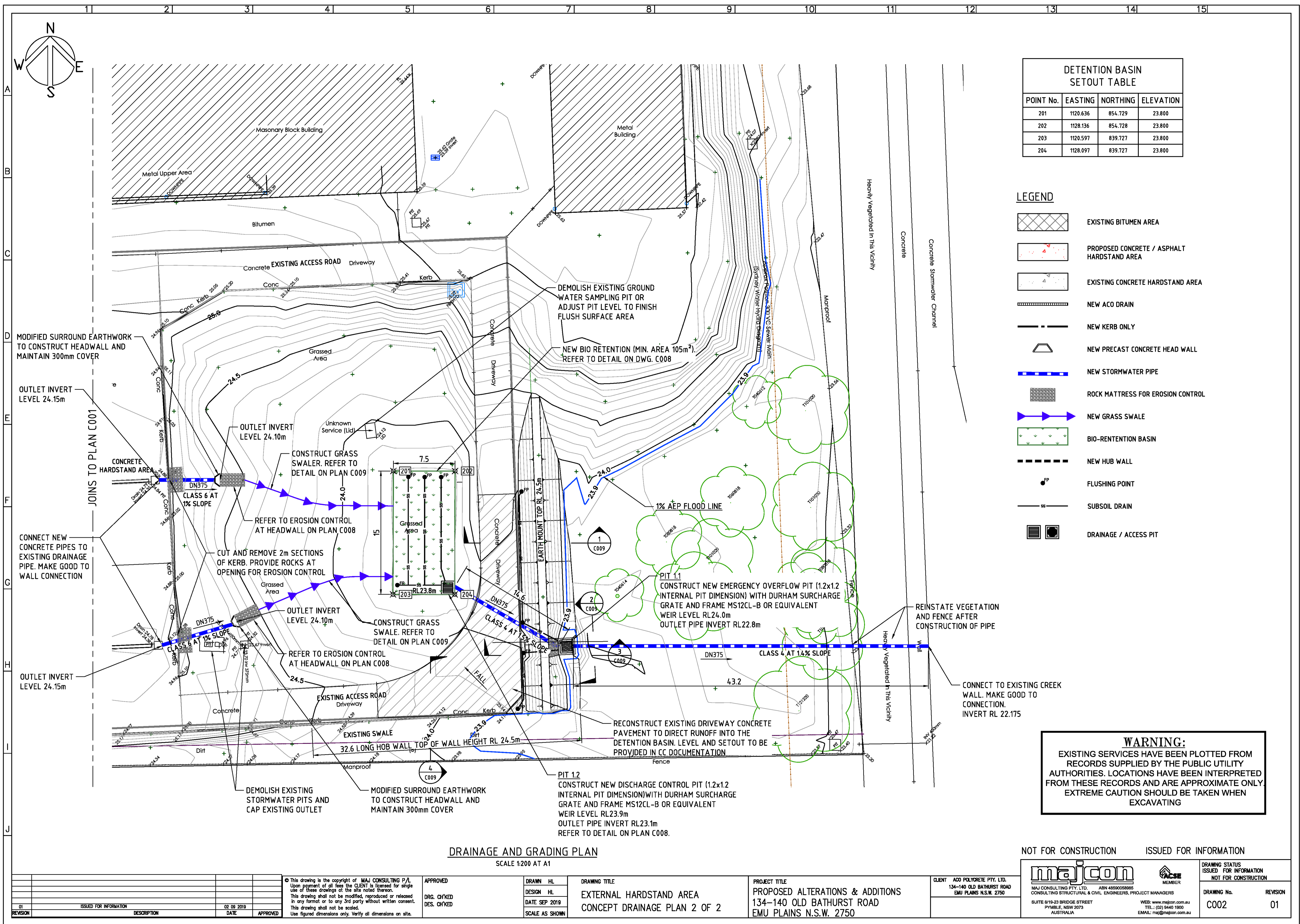
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DRAWING STATUS  
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DRAWING No. C001 REVISION 02



DETENTION BASIN SETOUT TABLE			
POINT No.	EASTING	NORTHING	ELEVATION
201	1120.636	854.729	23.800
202	1128.136	854.728	23.800
203	1120.597	839.727	23.800
204	1128.097	839.727	23.800

- LEGEND**
- EXISTING BITUMEN AREA
  - PROPOSED CONCRETE / ASPHALT HARDSTAND AREA
  - EXISTING CONCRETE HARDSTAND AREA
  - NEW ACO DRAIN
  - NEW KERB ONLY
  - NEW PRECAST CONCRETE HEAD WALL
  - NEW STORMWATER PIPE
  - ROCK MATTRESS FOR EROSION CONTROL
  - NEW GRASS SWALE
  - BIO-RETENTION BASIN
  - NEW HUB WALL
  - FLUSHING POINT
  - SUBSOIL DRAIN
  - DRAINAGE / ACCESS PIT

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**DRAINAGE AND GRADING PLAN**  
 SCALE 1:200 AT A1

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01	ISSUED FOR INFORMATION		02 09 2019	

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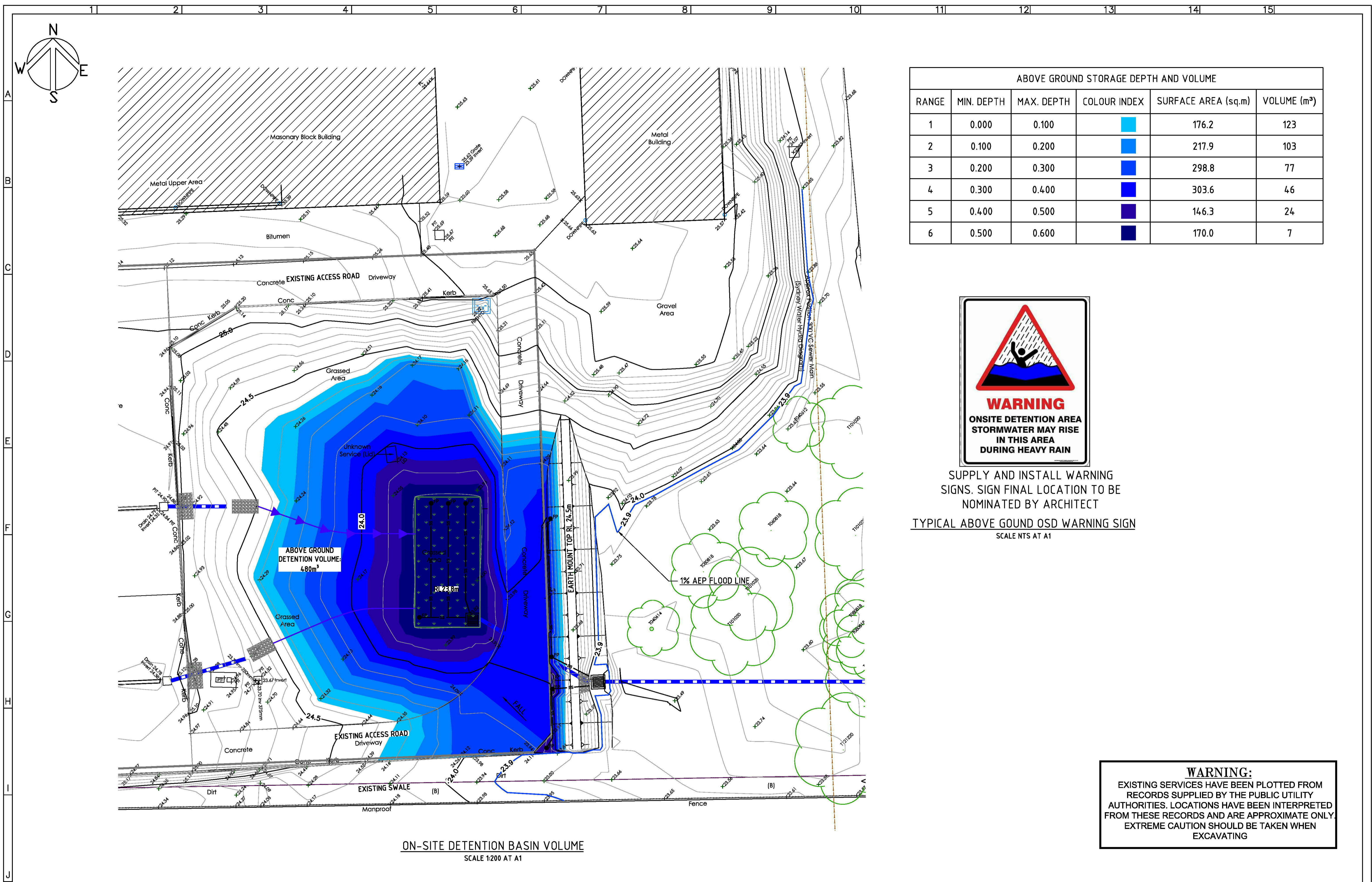
DRAWN HL  
 DESIGN HL  
 DATE SEP 2019  
 SCALE AS SHOWN

DRAWING TITLE  
**EXTERNAL HARDSTAND AREA**  
 CONCEPT DRAINAGE PLAN 2 OF 2

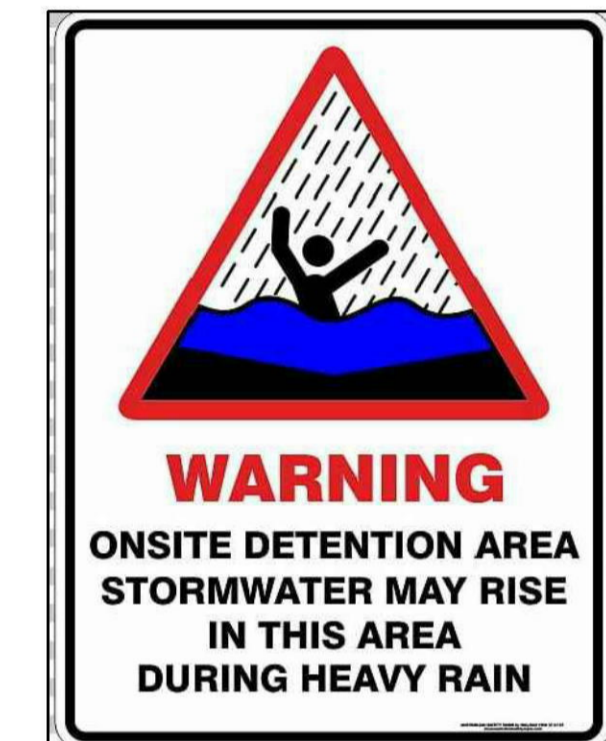
PROJECT TITLE  
**PROPOSED ALTERATIONS & ADDITIONS**  
 134-140 OLD BATHURST ROAD  
 EMU PLAINS N.S.W. 2750

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DRAWING No.	C002	REVISION 01



ABOVE GROUND STORAGE DEPTH AND VOLUME					
RANGE	MIN. DEPTH	MAX. DEPTH	COLOUR INDEX	SURFACE AREA (sq.m)	VOLUME (m³)
1	0.000	0.100		176.2	123
2	0.100	0.200		217.9	103
3	0.200	0.300		298.8	77
4	0.300	0.400		303.6	46
5	0.400	0.500		146.3	24
6	0.500	0.600		170.0	7



SUPPLY AND INSTALL WARNING SIGNS. SIGN FINAL LOCATION TO BE NOMINATED BY ARCHITECT  
 TYPICAL ABOVE GOUND OSD WARNING SIGN  
 SCALE NTS AT A1

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ON-SITE DETENTION BASIN VOLUME  
 SCALE 1:200 AT A1

REVISION	DESCRIPTION	DATE	APPROVED
01	ISSUED FOR INFORMATION	02 09 2019	

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 DES. CH'KED

DRAWN HL  
 DESIGN HL  
 DATE SEP 2019  
 SCALE AS SHOWN

DRAWING TITLE  
 EXTERNAL HARDSTAND AREA  
 OSD VOLUME

PROJECT TITLE  
 PROPOSED ALTERATIONS & ADDITIONS  
 134-140 OLD BATHURST ROAD  
 EMU PLAINS N.S.W. 2750

CLIENT ACO POLYURETE PTY. LTD.  
 134-140 OLD BATHURST ROAD  
 EMU PLAINS N.S.W. 2750

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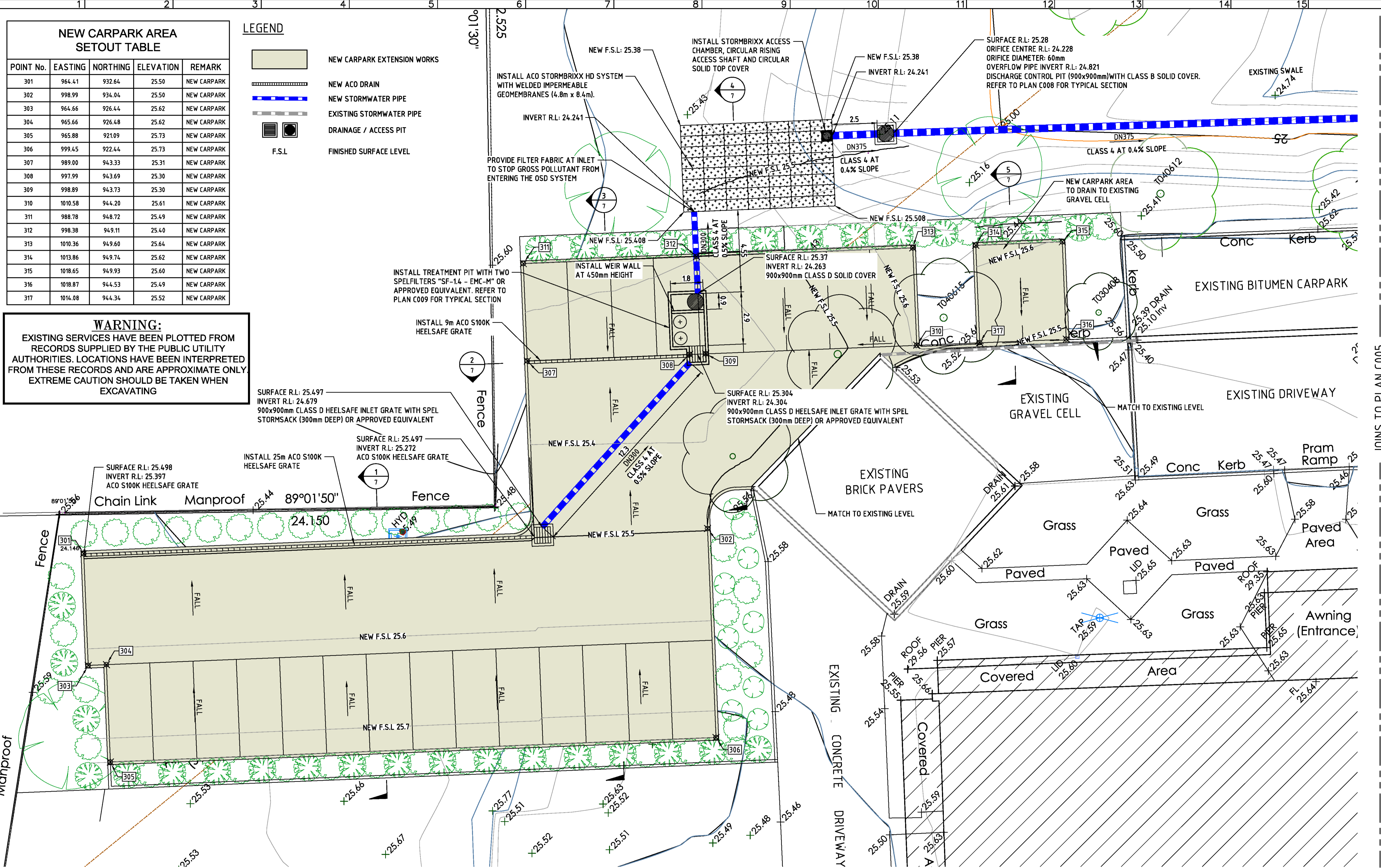
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DRAWING No. C003  
 REVISION 01



**NEW CARPARK AREA SETOUT TABLE**

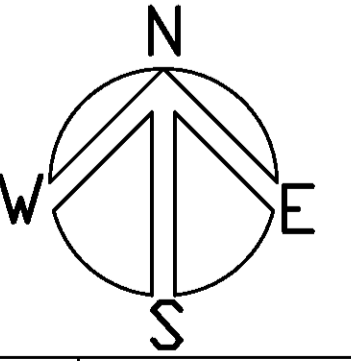
POINT No.	EASTING	NORTHING	ELEVATION	REMARK
301	964.41	932.64	25.50	NEW CARPARK
302	998.99	934.04	25.50	NEW CARPARK
303	964.66	926.44	25.62	NEW CARPARK
304	965.66	926.48	25.62	NEW CARPARK
305	965.88	921.09	25.73	NEW CARPARK
306	999.45	922.44	25.73	NEW CARPARK
307	989.00	943.33	25.31	NEW CARPARK
308	997.99	943.69	25.30	NEW CARPARK
309	998.89	943.73	25.30	NEW CARPARK
310	1010.58	944.20	25.61	NEW CARPARK
311	988.78	948.72	25.49	NEW CARPARK
312	998.38	949.11	25.40	NEW CARPARK
313	1010.36	949.60	25.64	NEW CARPARK
314	1013.86	949.74	25.62	NEW CARPARK
315	1018.65	949.93	25.60	NEW CARPARK
316	1018.87	944.53	25.49	NEW CARPARK
317	1014.08	944.34	25.52	NEW CARPARK

**LEGEND**

	NEW CARPARK EXTENSION WORKS
	NEW ACO DRAIN
	NEW STORMWATER PIPE
	EXISTING STORMWATER PIPE
	DRAINAGE / ACCESS PIT
	F.S.L
	FINISHED SURFACE LEVEL

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**DRAINAGE AND GRADING PLAN**  
 SCALE 1:100 AT A1



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APPROVED	DRAWN HL	DRAWING TITLE	PROJECT TITLE
DRG. CHK'D	DESIGN HL	NEW BITUMEN CARPARK	PROPOSED ALTERATIONS & ADDITIONS
DES. CHK'D	DATE SEP 2019	CONCEPT DRAINAGE PLAN 1 OF 3	134-140 OLD BATHURST ROAD
	SCALE AS SHOWN	GRADING PLAN	EMU PLAINS N.S.W. 2750

CLIENT	ACO POLYCRETE PTY. LTD.
CLIENT ADDRESS	134-140 OLD BATHURST ROAD
CLIENT ADDRESS	EMU PLAINS N.S.W. 2750

CLIENT	ACO POLYCRETE PTY. LTD.
CLIENT ADDRESS	134-140 OLD BATHURST ROAD
CLIENT ADDRESS	EMU PLAINS N.S.W. 2750

CLIENT	ACO POLYCRETE PTY. LTD.
CLIENT ADDRESS	134-140 OLD BATHURST ROAD
CLIENT ADDRESS	EMU PLAINS N.S.W. 2750

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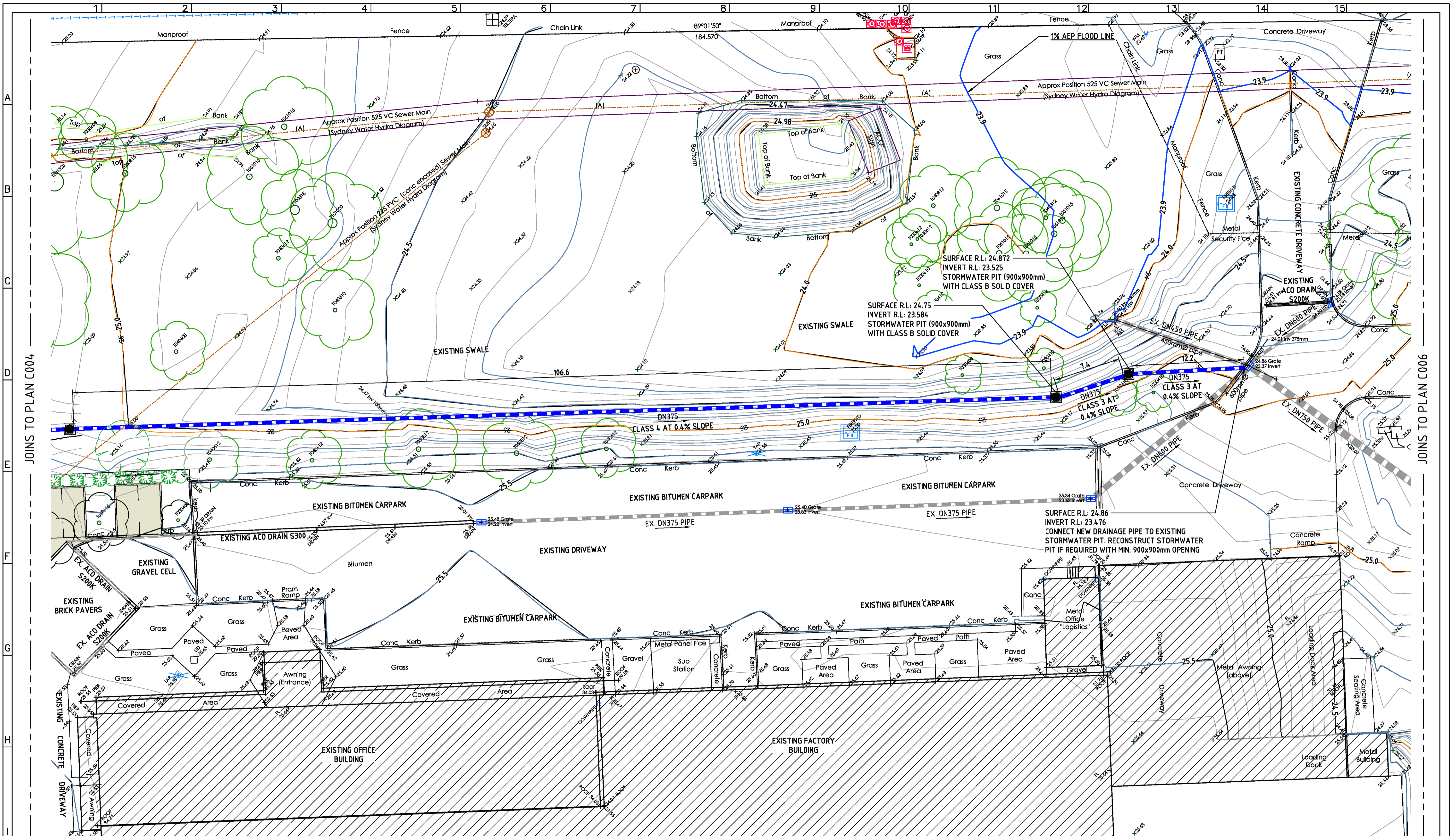
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DRAWING No. C004 REVISION 01

JOINS TO PLAN C005



JOINS TO PLAN C004

JOINS TO PLAN C005

**LEGEND**

	NEW CARPARK EXTENSION WORKS
	NEW STORMWATER PIPE
	EXISTING STORMWATER PIPE
	DRAINAGE / ACCESS PIT

**DRAINAGE PLAN**  
SCALE 1:200 AT A1

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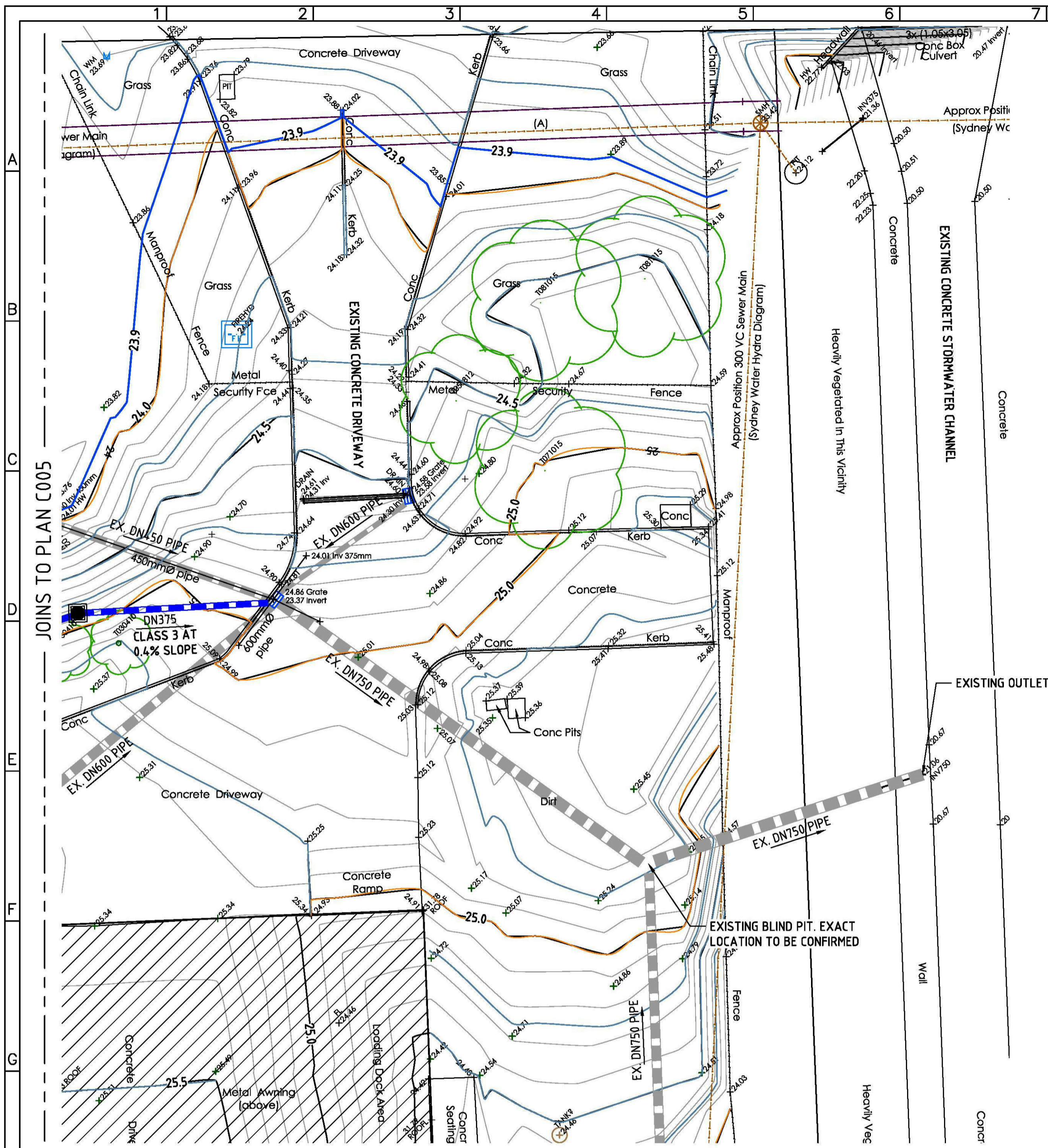
APPROVED	DRAWN HL	DRAWING TITLE	PROJECT TITLE
DRG. CHK'D	DESIGN HL	NEW BITUMEN CARPARK	PROPOSED ALTERATIONS & ADDITIONS
DES. CHK'D	DATE SEP 2019	CONCEPT DRAINAGE PLAN 2 OF 3	134-140 OLD BATHURST ROAD
	SCALE AS SHOWN		EMU PLAINS N.S.W. 2750

CLIENT	ACQ POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750
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SUITE 8/19-23 BRIDGE STREET PYMBLE, NSW 2073 AUSTRALIA	WEB: www.majcon.com.au TEL: (02) 9440 1900 EMAIL: maj@majcon.com.au

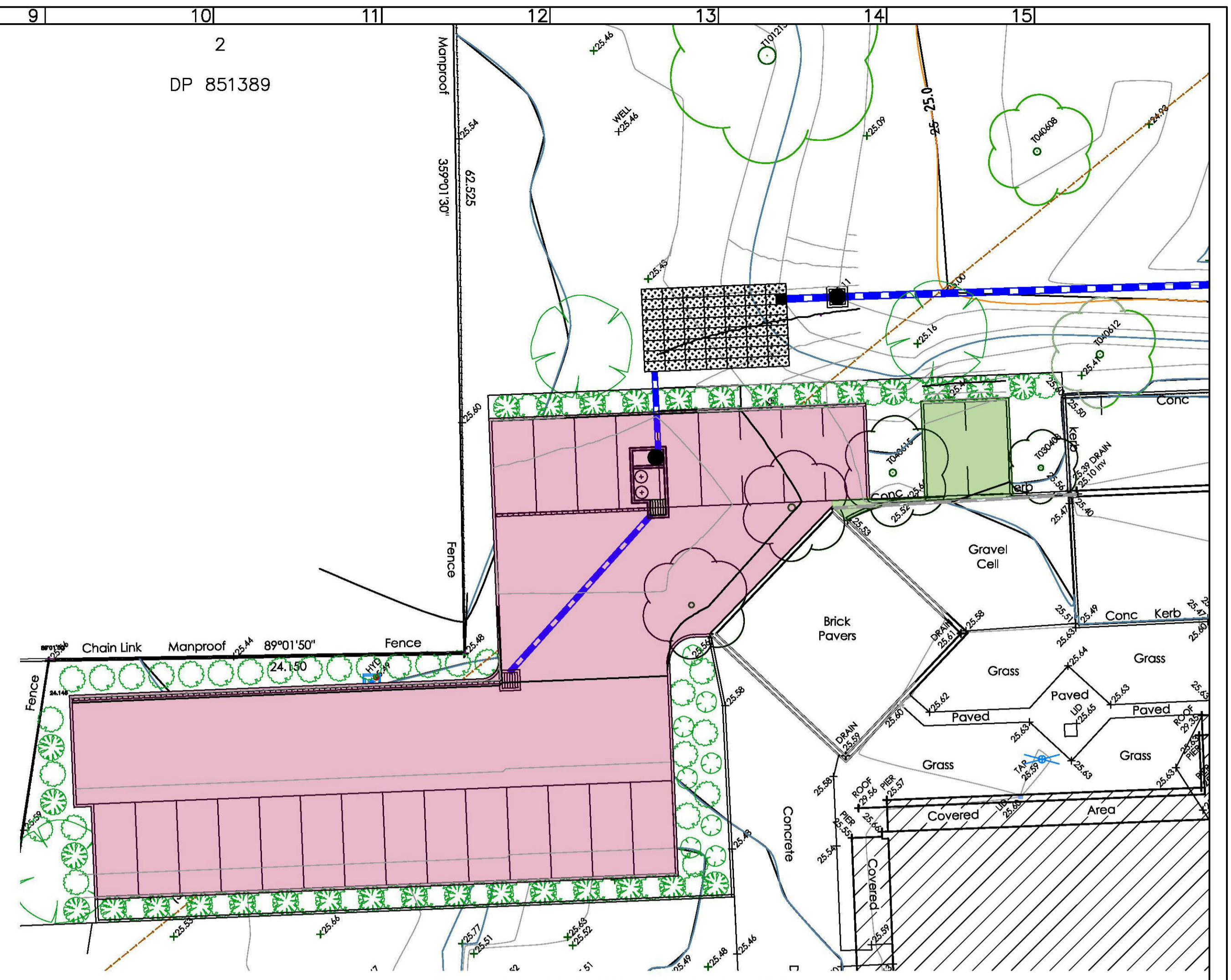
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DRAWING No.	C005
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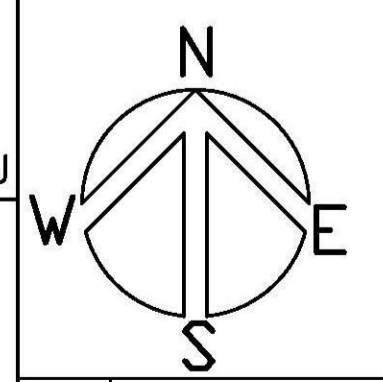
**DRAINAGE PLAN**  
SCALE 1:200 AT A1



**NEW BITUMEN CARPARK CATCHMENT PLAN**  
SCALE 1:200 AT A1

- LEGEND**
- NEW CARPARK CATCHMENT BYPASSING NEW OSD SYSTEM (APPROX. 32m<sup>2</sup>)
  - NEW CARPARK CATCHMENT DRAINING TO PROPOSED OSD SYSTEM (APPROX. 678m<sup>2</sup>)
  - NEW ACO DRAIN
  - NEW STORMWATER PIPE
  - EXISTING STORMWATER PIPE
  - DRAINAGE / ACCESS PIT

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REVISION	DESCRIPTION	DATE	APPROVED
02	ISSUED FOR INFORMATION - REVISED DRAWING FOR DA SUBMISSION	08 09 2019	
01	ISSUED FOR INFORMATION	02 09 2019	

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APPROVED	DRAWN HL	DRAWING TITLE	PROJECT TITLE
DRG. CHK'D	DESIGN HL	NEW BITUMEN CARPARK	PROPOSED ALTERATIONS & ADDITIONS
DES. CHK'D	DATE SEP 2019	CONCEPT DRAINAGE PLAN 3 OF 3	134-140 OLD BATHURST ROAD
	SCALE AS SHOWN	NEW CARPARK CATCHMENT PLAN	EMU PLAINS N.S.W. 2750

CLIENT	ACO POLYCRETE PTY. LTD.
	134-140 OLD BATHURST ROAD
	EMU PLAINS N.S.W. 2750

MAJ CONSULTING PTY. LTD.	ABN 48590058985
CONSULTING STRUCTURAL & CIVIL ENGINEERS, PROJECT MANAGERS	
SUITE 8/19-23 BRIDGE STREET	WEB: www.majcon.com.au
PYMBLE, NSW 2073	TEL: (02) 9440 1900
AUSTRALIA	EMAIL: maj@majcon.com.au

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**majcon**      **ACSE** MEMBER

DRAWING STATUS: ISSUED FOR INFORMATION, NOT FOR CONSTRUCTION

DRAWING No. C006      REVISION 02



REVISION	DESCRIPTION	DATE	APPROVED
01	ISSUED FOR INFORMATION	02 09 2019	

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APPROVED  
DRG. CH'KED  
DES. CH'KED

DRAWN HL  
DESIGN HL  
DATE SEP 2019  
SCALE AS SHOWN

DRAWING TITLE  
NEW BITUMEN CARPARK  
TYPICAL SECTIONS

PROJECT TITLE  
PROPOSED ALTERATIONS & ADDITIONS  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

CLIENT ACO POLYCRETE PTY. LTD.  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

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CONSULTING STRUCTURAL & CIVIL ENGINEERS, PROJECT MANAGERS  
SUITE 8/19-23 BRIDGE STREET  
PYMBLE, NSW 2073  
AUSTRALIA

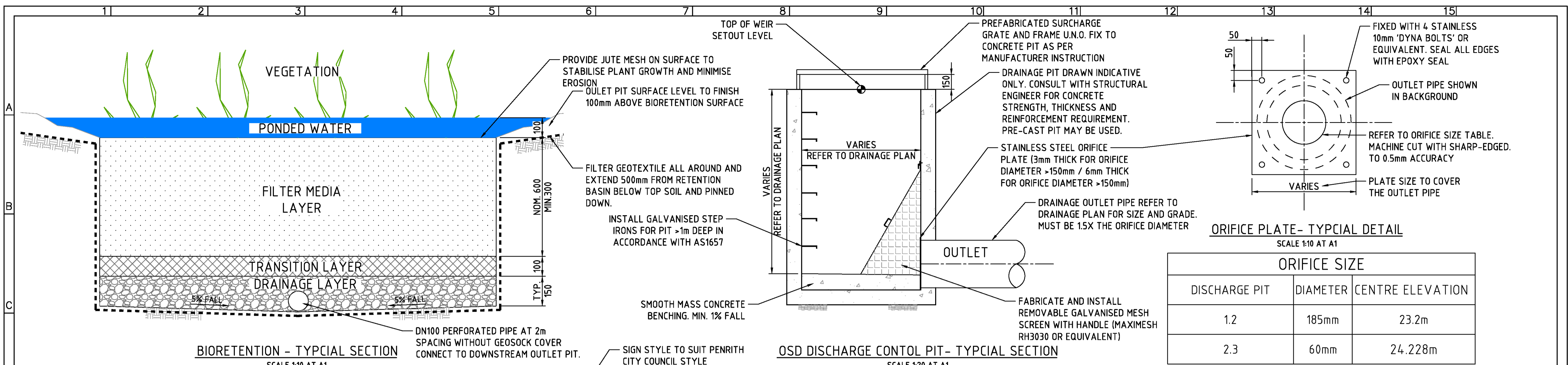
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DRAWING No. C007  
REVISION 01

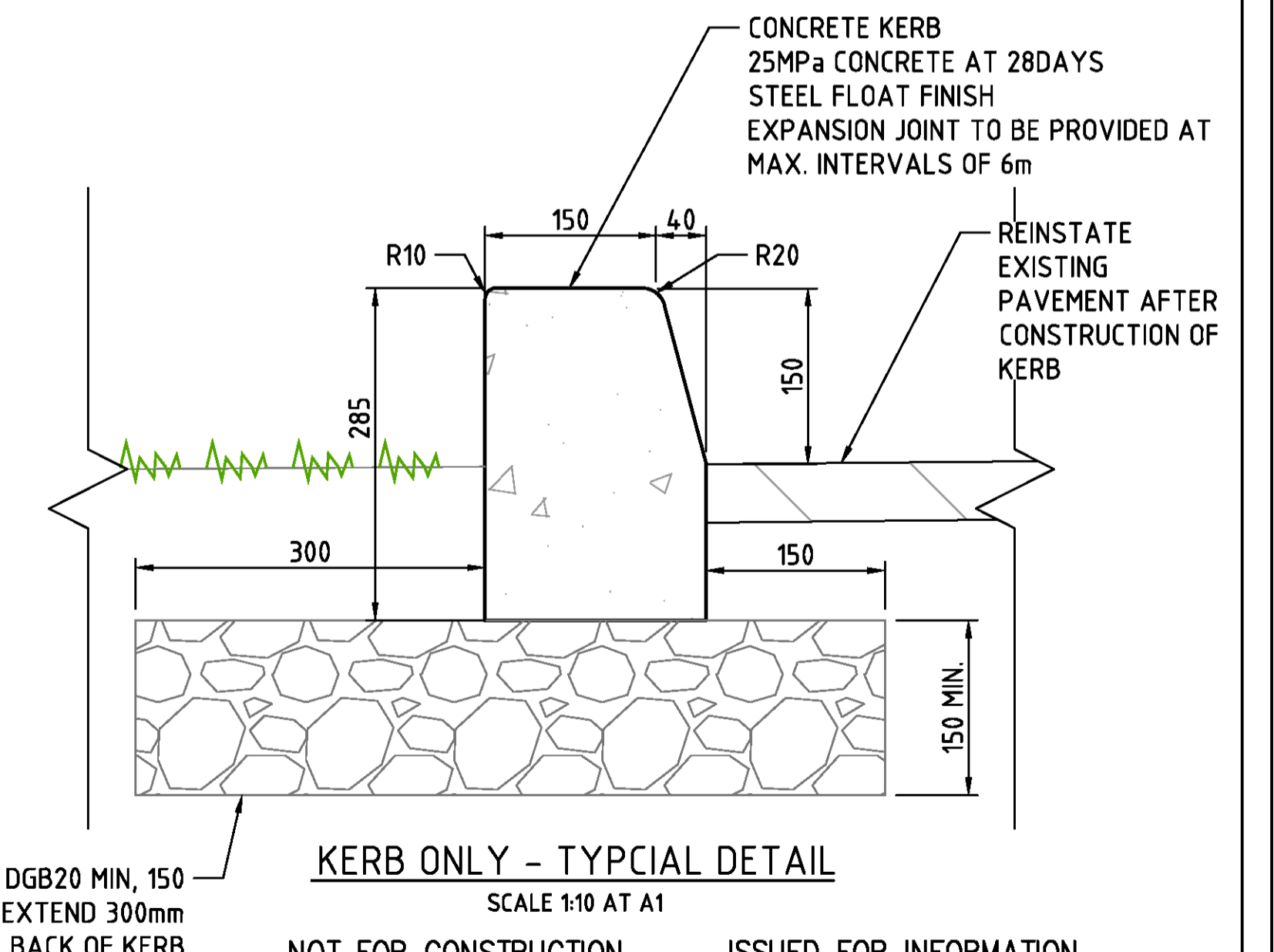
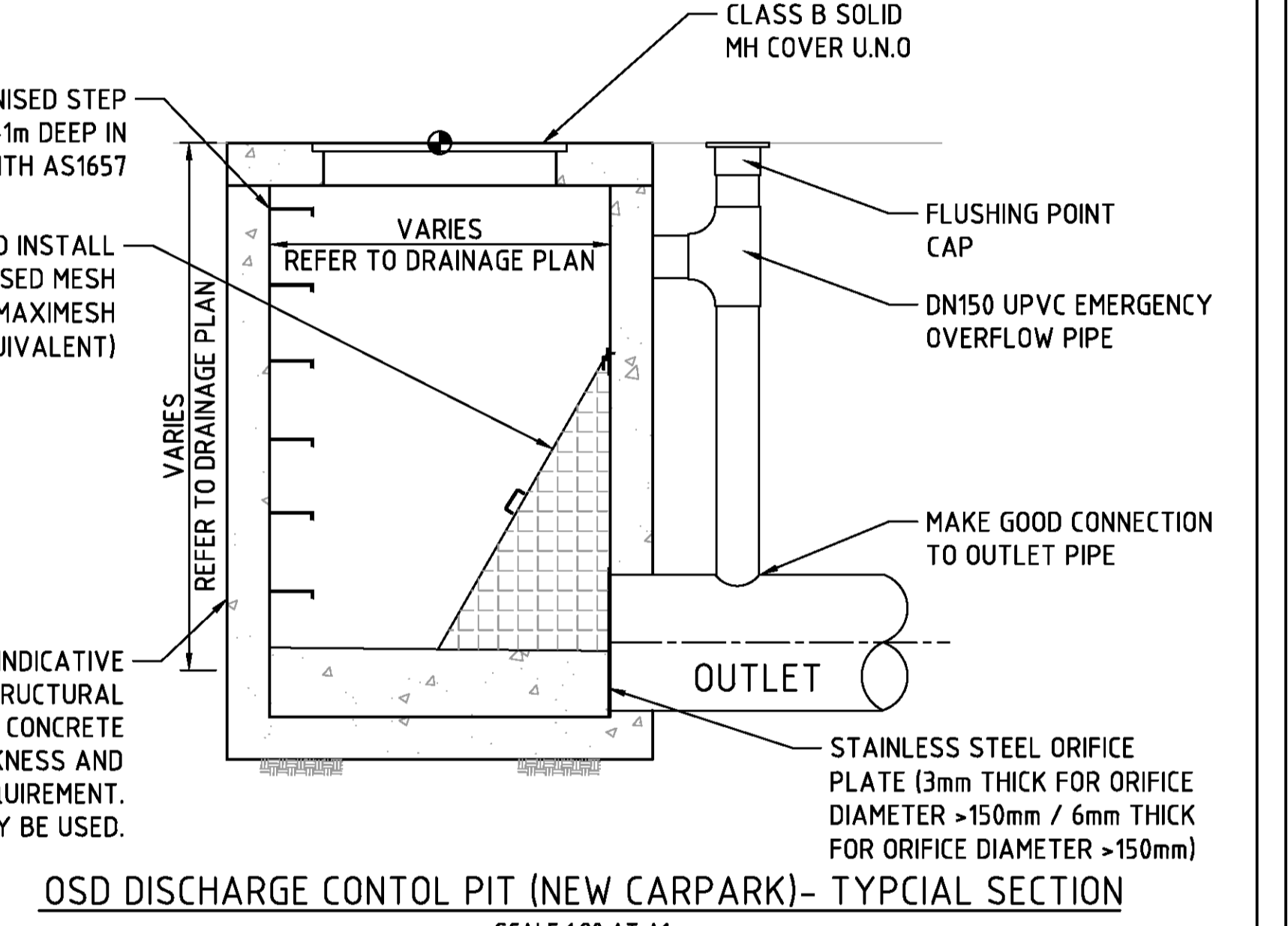
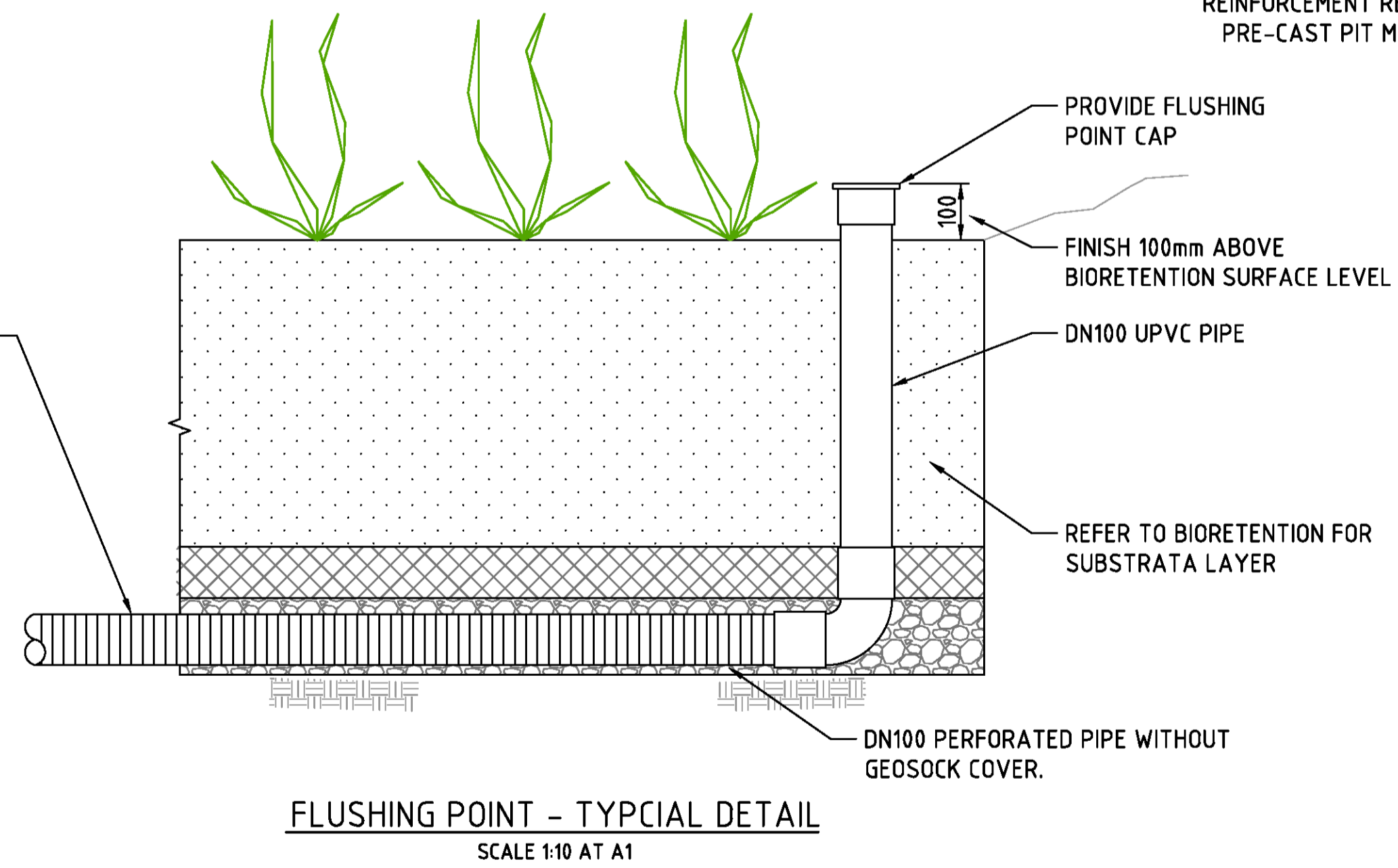
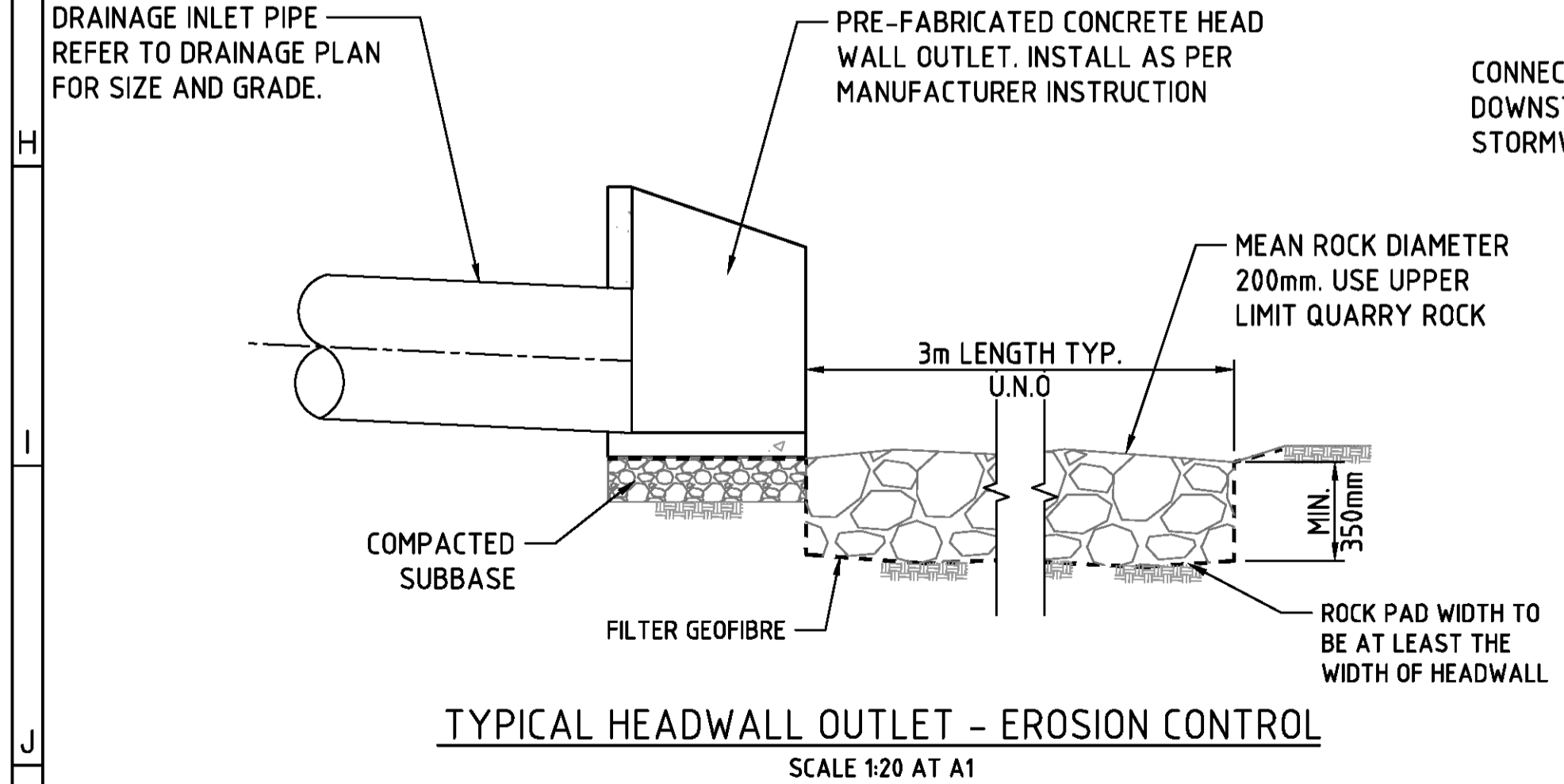
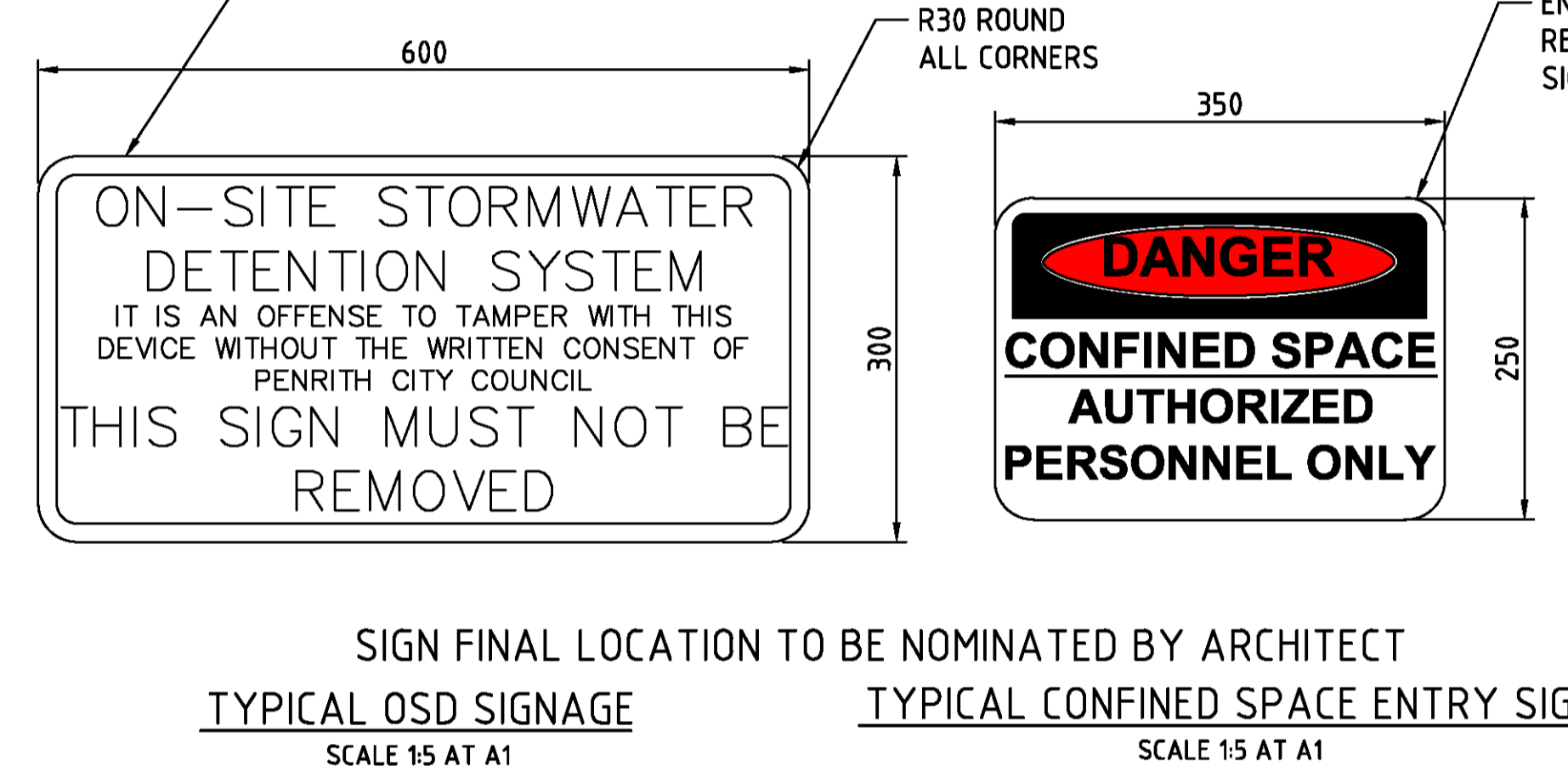
NOT FOR CONSTRUCTION ISSUED FOR INFORMATION



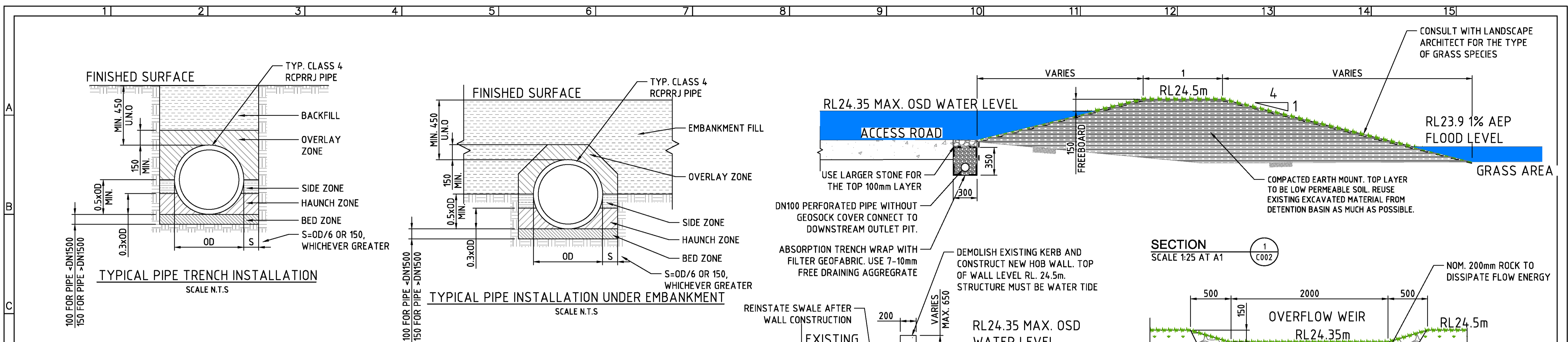
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TEL: (02) 9440 1900  
EMAIL: maj@majcon.com.au



BIORETENTION SUB-LAYER	
VEGETATION	<p>LIST OF POSSIBLE PLANT SPECIES:</p> <ul style="list-style-type: none"> <li>- IMPERATA CYLINDRICA (BLADY GRASS)</li> <li>- FICINIA NODOSA (SYN. ISOLEPIS NODOSA) (KNOBBY CLUB RUSH)</li> <li>- JUNCUS USITATUS (COMMON RUSH)</li> <li>- LOMANDRA LONGIFOLIA (MATRUSH)</li> <li>- POA SIEBREIANA (GREY TUSSOCK GRASS)</li> <li>- THEMEDA AUSTRALIS (KANGAROO GRASS)</li> <li>- DIANELLA CAERULEA (BLUE FLAX-LILY)</li> <li>- CAREX APPRESSA (TUSSOCK SEDGE)</li> </ul> <p>CONSULT WITH LANDSCAPE ARCHITECT FOR SPECIES SELECTION. MINIMUM 8 PLANTS PER SQUARE METRE.</p>
FILTER MEDIA LAYER	<p>LOAMY SAND WITH A PERMEABILITY OF 100-300mm/hr UNDER COMPACTION. THE SAND SHALL BE CLEAN AND FREE OF WEEDS. CONTAIN LESS THAN 5% OF ORGANIC MATTER AND LOW IN NUTRIENT CONTENT. DO NOT ADD FERTILISER. PROVIDE NITROGEN CONTENT OF 800mg/Kg AND ORTHOPHOSPHATE CONTENT OF 40mg/Kg.</p>
TRANSITION LAYER	<p>WELL GRADED SAND TO PREVENT FILTER MEDIA LAYER FROM WASHING OUT.</p>
DRAINAGE LAYER	<p>CLEAN FINE GRAVEL (2-5mm) SUCH AS BLUE METAL</p>



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**DRAINAGE TRENCH SUBSTRATA NOTES**

**BED ZONE:** IMPORTED MATERIAL OR EXCAVATED MATERIAL WITH PARTICLE SIZE NOT GREATER THAN 19mm AND CONFORMS WITH THE FOLLOWING SOIL CLASSES

SIEVE SIZE (mm)	19	2.36	0.6	0.3	0.15	0.075
% MASS PASSING	100	100-50	90-20	60-10	25-0	10-0

THE MATERIAL PASSING THE 0.075mm SIEVE MUST HAVE LOW PLASTICITY AS DESCRIBED IN APPENDIX D OF AS1726. COMPACTION BY TAMPING, ROLLING AND/OR VIBRATION TO A MINIMUM DENSITY INDEX OF 60.

**HAUNCH ZONE:** FILL MATERIAL COMPLYING THE REQUIREMENTS SHOWN ABOVE FOR THE BED ZONE. COMPACTION BY SATURATION AND VIBRATION TO ACHIEVE A MINIMUM DENSITY INDEX OF 60.

**SIDE ZONE:** IMPORTED MATERIAL OR EXCAVATED MATERIAL WITH PARTICLE SIZE NOT GREATER THAN 19mm AND CONFORMS WITH THE FOLLOWING SOIL CLASSES:

SIEVE SIZE (mm)	75	9.5	2.36	0.6	0.075
% MASS PASSING	100	100-50	100-30	50-15	25-0

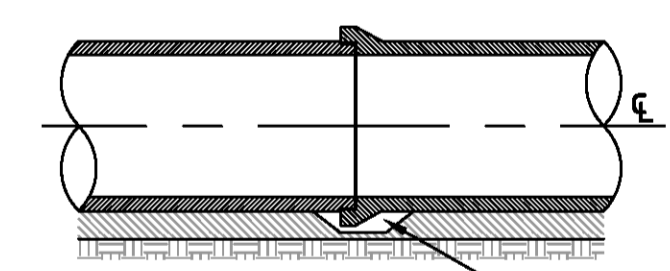
COMPACTION BY TAMPING, ROLLING AND/OR VIBRATION TO A MINIMUM DENSITY INDEX OF 60.

**OVERLAY ZONE:** FILL MATERIAL FROM EXCAVATE TRENCH SHALL NOT CONTAIN ANY STONES LARGER THAN 150mm, NOR MORE THAN 20% WITH A SIZE BETWEEN 75mm AND 150mm, COMPACTION BY TAMPING, ROLLING OR VIBRATION TO A MINIMUM DENSITY INDEX OF 60.

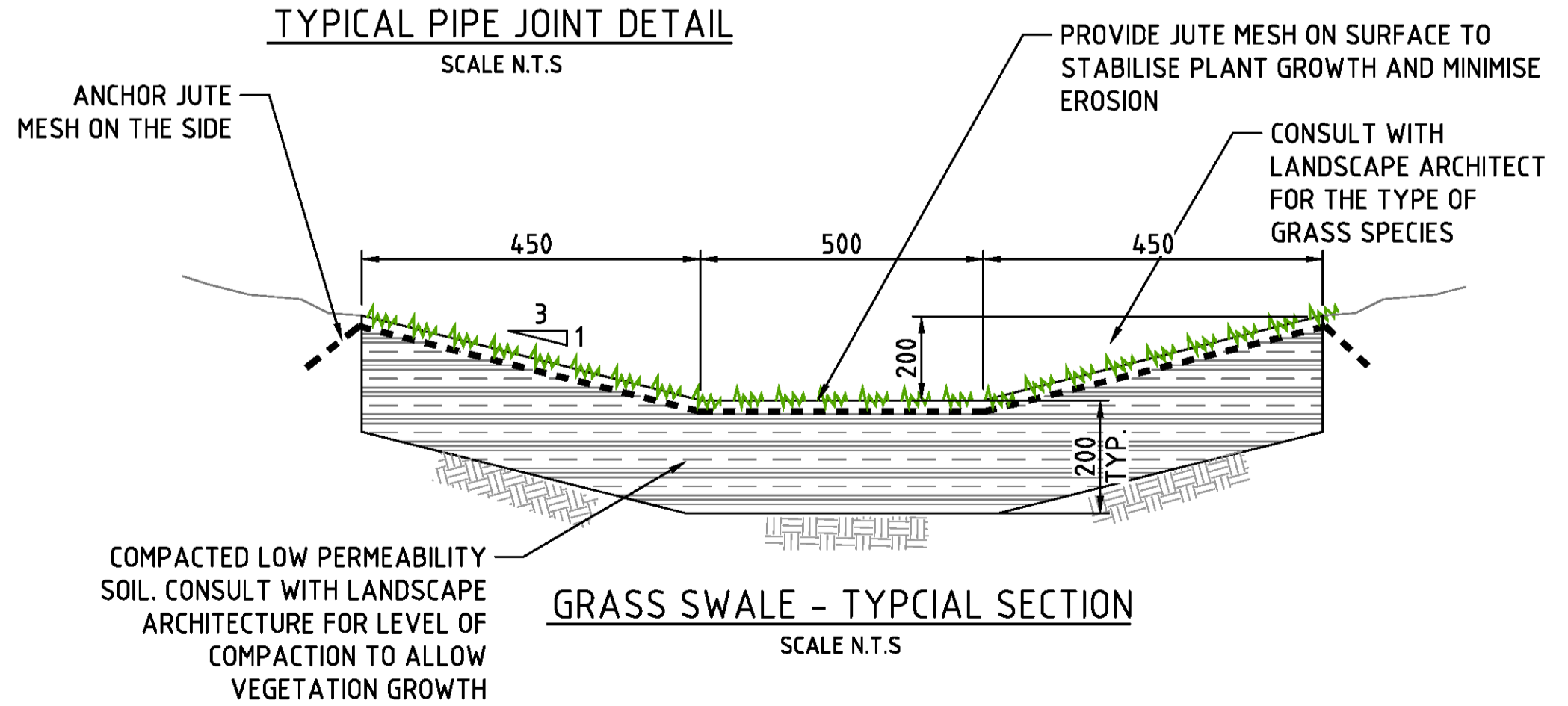
**BACKFILL/ EMBANKMENT FILL:** MATERIAL FROM EXCAVATED TRENCH COMPACTED TO PREVENT EXCESSIVE SETTLEMENT IN THE GROUND SURFACE LEVEL.

**NOTES**

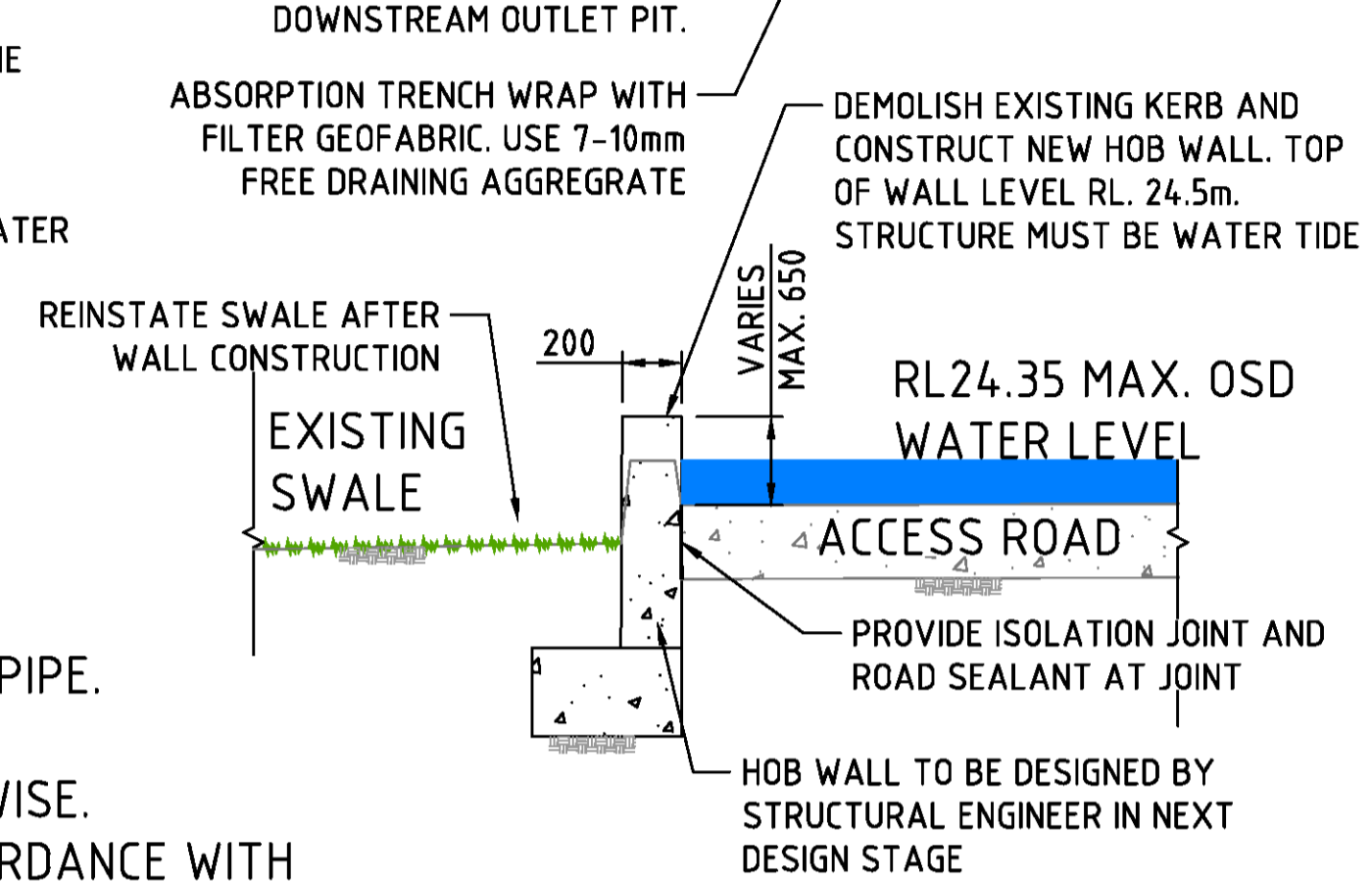
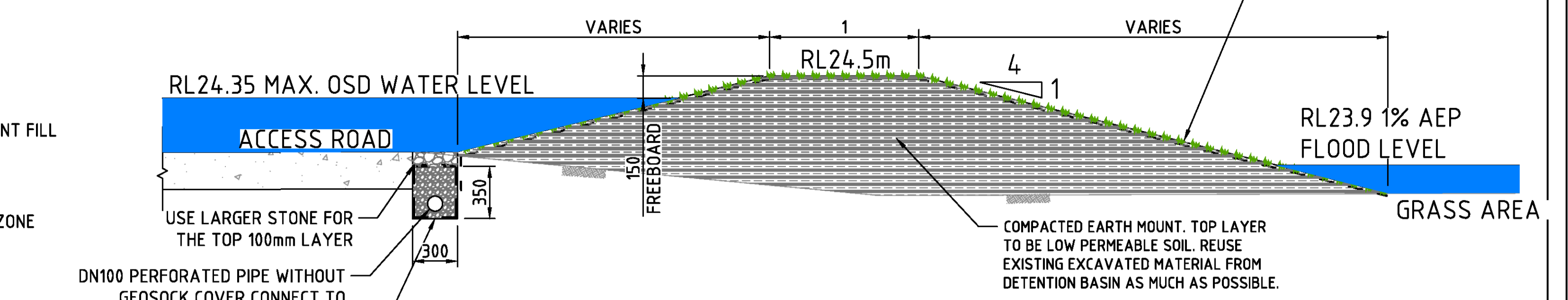
- RCP DENOTES REINFORCED CONCRETE PIPE.
- RRJ DENOTES RUBBER RING JOINT.
- UNO DENTOEES UNLESS NOTED OTHERWISE.
- PIPE INSTALLATION SHALL BE INACCORDANCE WITH AS/NZS 3725 DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPE
- THE TRENCH SHALL BE OVER-EXCAVATED IF REQUIRED TO REMOVE ANY UNSUITABLE MATERIAL AND REFILLED WITH COMPACTED MATERIAL CONFORMING TO THE REQUIREMENTS FOR THE BED ZONE.
- ALL COMPACTION LAYER SHALL NOT EXCEED 150mm. COMPACTION ACHIEVED SHALL BE MONITORED BY FIELD TESTING IN ACCORDANCE WITH AS1289.
- MAXIMUM PIPE GRADE IS 15%. PROVIDED CONCRETE BULKHEAD FOR STEEP PIPE TO PREVENT SLIDING.
- ALL DIMENSION SHOWN IS IN MILLIMETRE UNO.



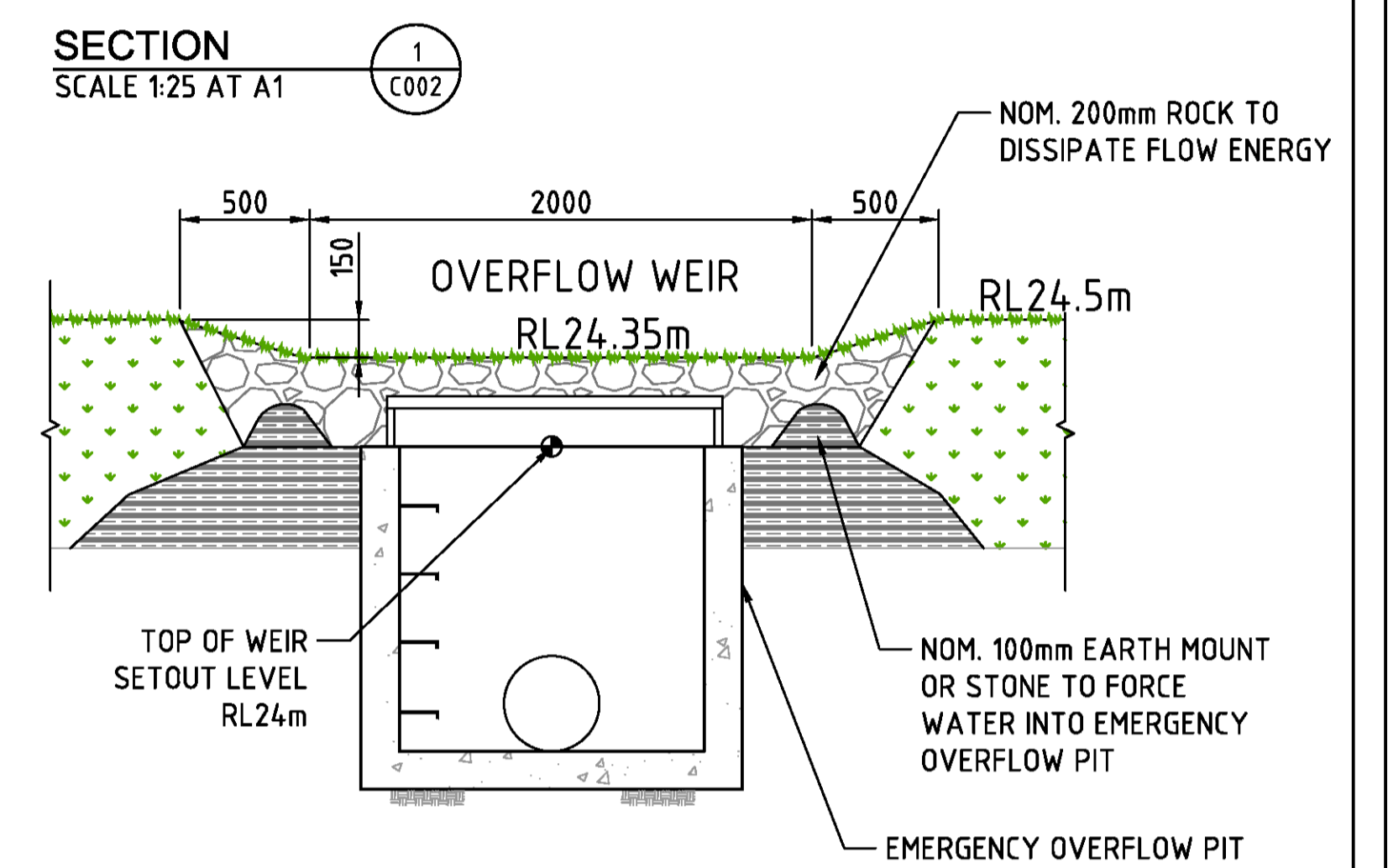
**TYPICAL PIPE JOINT DETAIL**  
SCALE N.T.S.



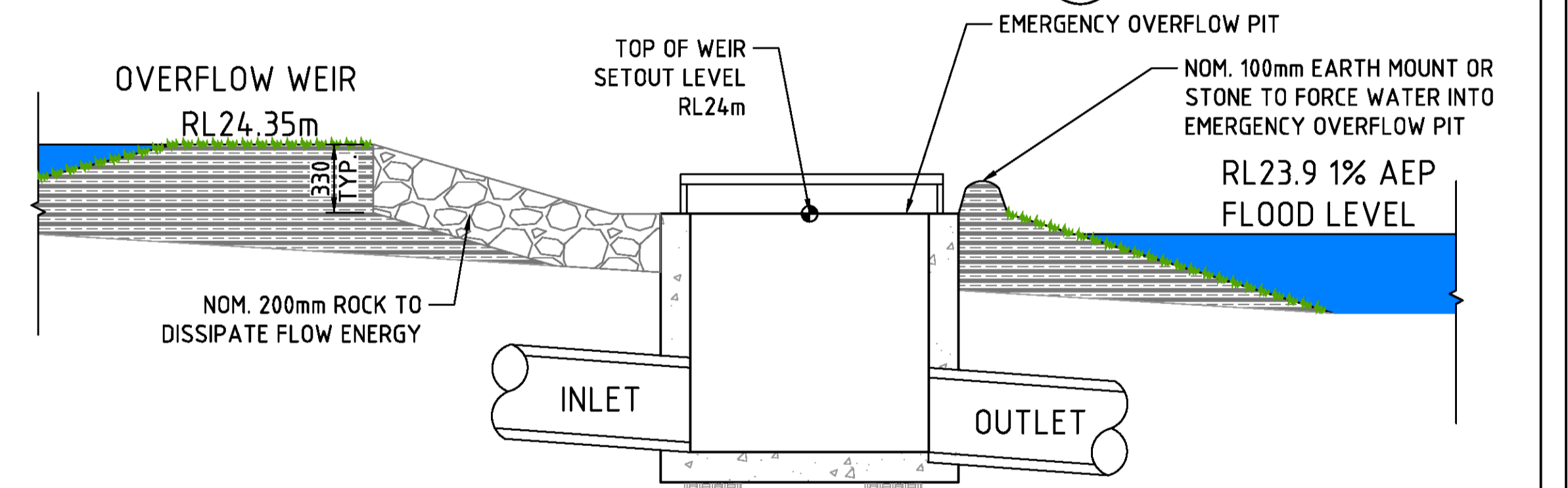
**GRASS SWALE - TYPICAL SECTION**  
SCALE N.T.S.



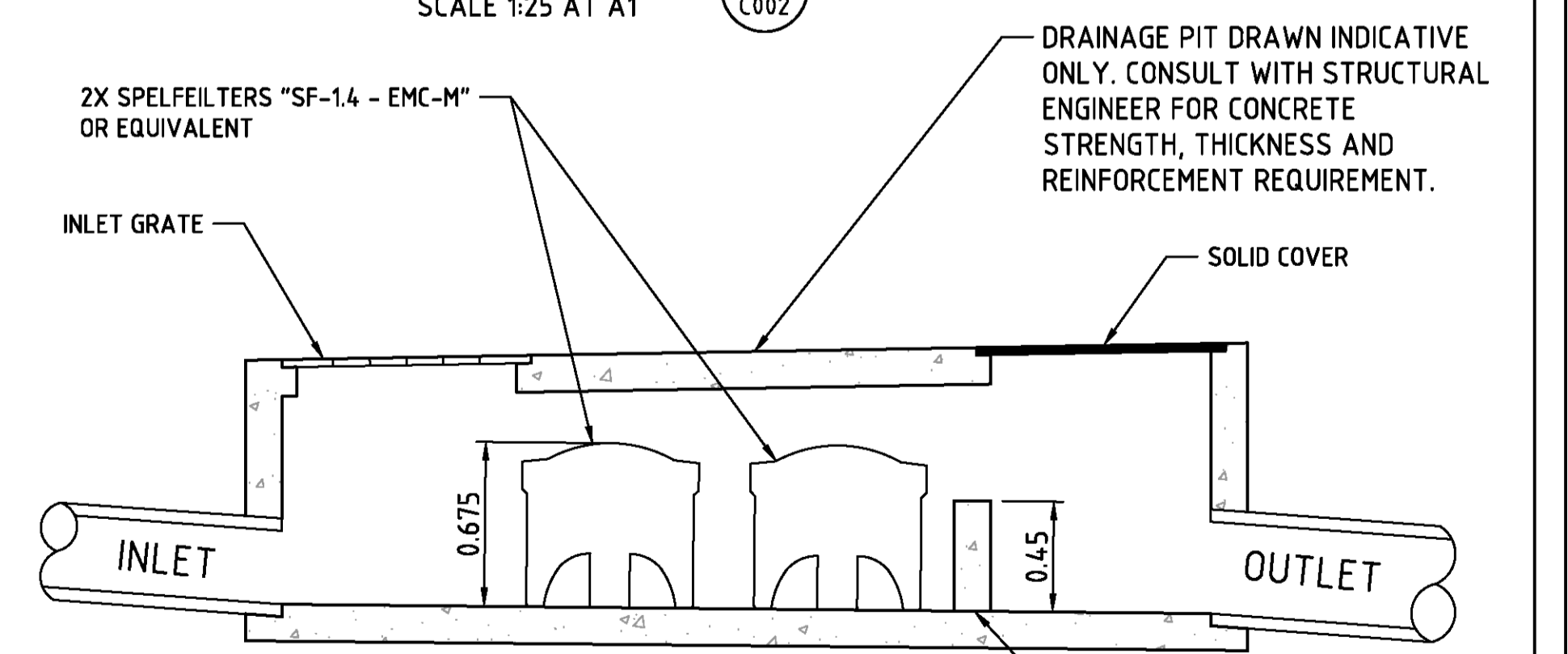
**SECTION 4**  
SCALE 1:25 AT A1



**SECTION 1**  
SCALE 1:25 AT A1



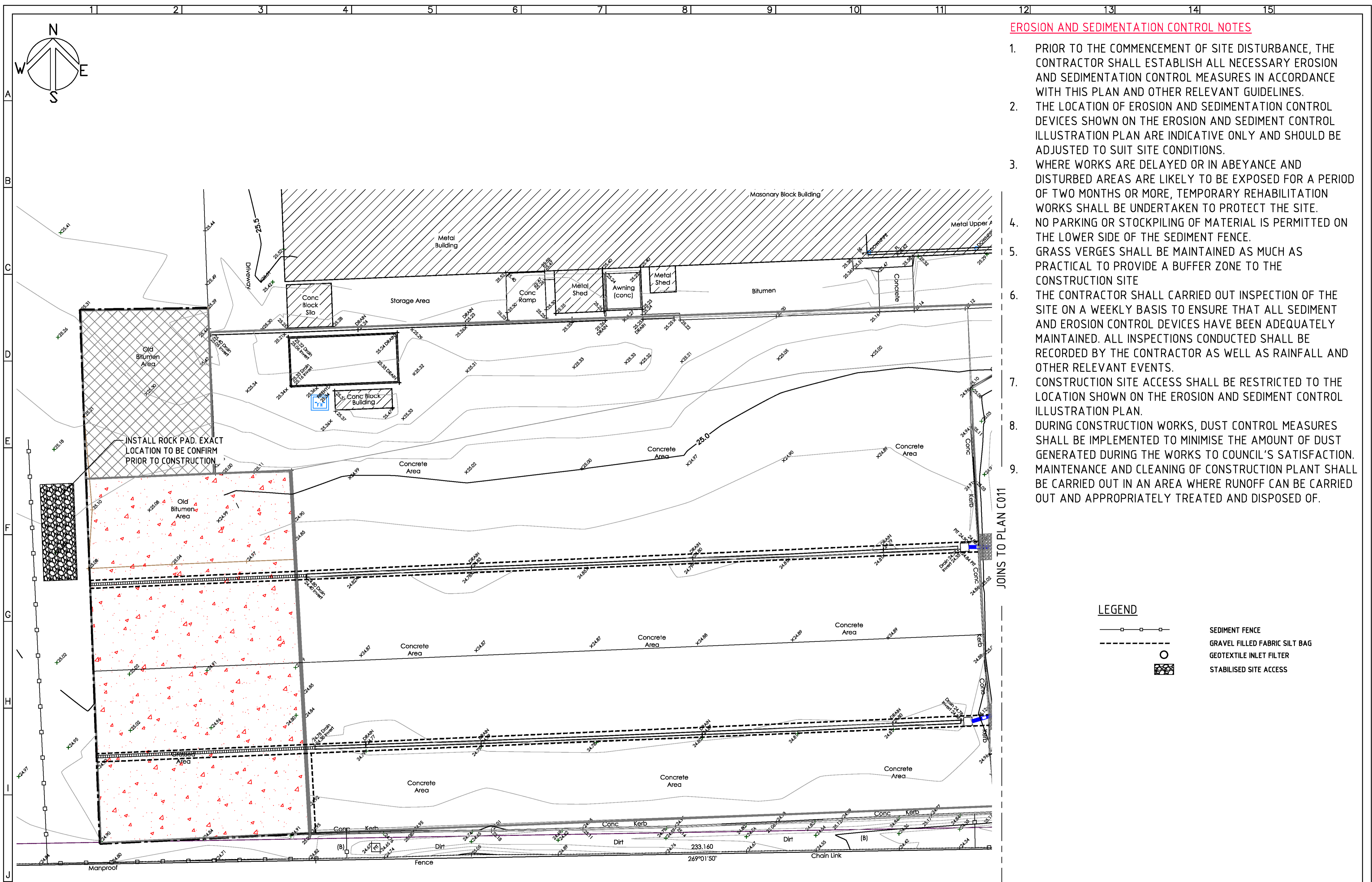
**SECTION 2**  
SCALE 1:25 AT A1



**TYPICAL TREATMENT PIT**  
SCALE N.T.S.

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**EROSION AND SEDIMENTATION CONTROL NOTES**

1. PRIOR TO THE COMMENCEMENT OF SITE DISTURBANCE, THE CONTRACTOR SHALL ESTABLISH ALL NECESSARY EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THIS PLAN AND OTHER RELEVANT GUIDELINES.
2. THE LOCATION OF EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THE EROSION AND SEDIMENT CONTROL ILLUSTRATION PLAN ARE INDICATIVE ONLY AND SHOULD BE ADJUSTED TO SUIT SITE CONDITIONS.
3. WHERE WORKS ARE DELAYED OR IN ABEYANCE AND DISTURBED AREAS ARE LIKELY TO BE EXPOSED FOR A PERIOD OF TWO MONTHS OR MORE, TEMPORARY REHABILITATION WORKS SHALL BE UNDERTAKEN TO PROTECT THE SITE.
4. NO PARKING OR STOCKPILING OF MATERIAL IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
5. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE
6. THE CONTRACTOR SHALL CARRIED OUT INSPECTION OF THE SITE ON A WEEKLY BASIS TO ENSURE THAT ALL SEDIMENT AND EROSION CONTROL DEVICES HAVE BEEN ADEQUATELY MAINTAINED. ALL INSPECTIONS CONDUCTED SHALL BE RECORDED BY THE CONTRACTOR AS WELL AS RAINFALL AND OTHER RELEVANT EVENTS.
7. CONSTRUCTION SITE ACCESS SHALL BE RESTRICTED TO THE LOCATION SHOWN ON THE EROSION AND SEDIMENT CONTROL ILLUSTRATION PLAN.
8. DURING CONSTRUCTION WORKS, DUST CONTROL MEASURES SHALL BE IMPLEMENTED TO MINIMISE THE AMOUNT OF DUST GENERATED DURING THE WORKS TO COUNCIL'S SATISFACTION.
9. MAINTENANCE AND CLEANING OF CONSTRUCTION PLANT SHALL BE CARRIED OUT IN AN AREA WHERE RUNOFF CAN BE CARRIED OUT AND APPROPRIATELY TREATED AND DISPOSED OF.

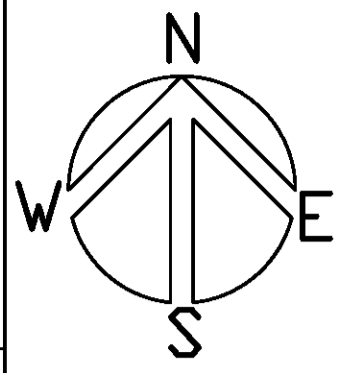
**LEGEND**

- SEDIMENT FENCE
- - - □ - - - GRAVEL FILLED FABRIC SILT BAG
- GEOTEXTILE INLET FILTER
- ▣ STABILISED SITE ACCESS

**EROSION CONTROL PLAN**  
SCALE 1:200 AT A1

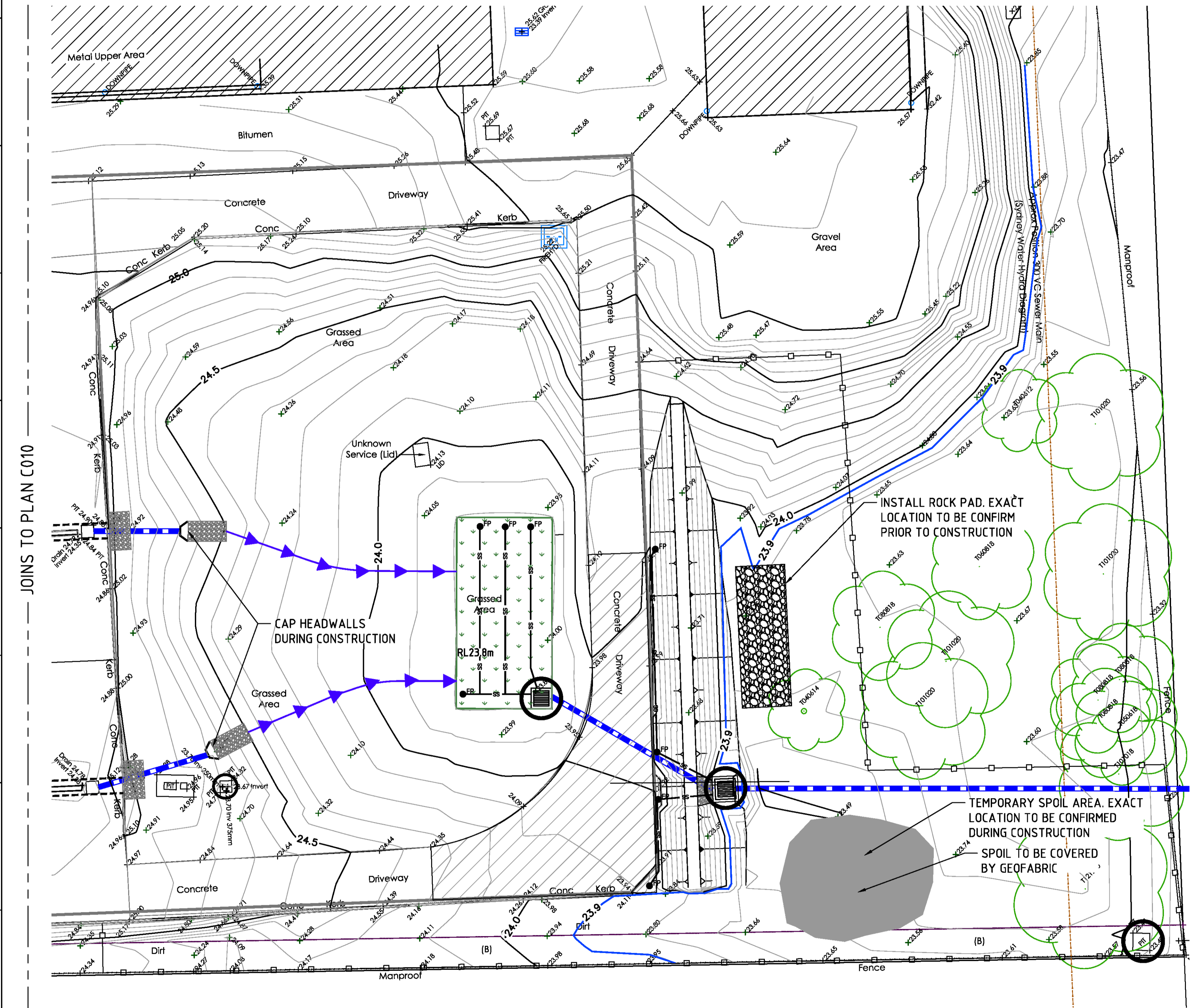
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01 ISSUED FOR INFORMATION 02 09 2019 DATE APPROVED		© This drawing is the copyright of MAJ CONSULTING P/L. Upon payment of all fees the CLIENT is licensed for single use of these drawings at the site noted thereon. This drawing shall not be modified, reproduced or released in any format or to any 3rd party without written consent. This drawing shall not be scaled. Use figured dimensions only. Verify all dimensions on site.		APPROVED DRG. CH'KED DES. CH'KED		DRAWN HL DESIGN HL DATE SEP 2019 SCALE AS SHOWN		DRAWING TITLE EXTERNAL HARDSTAND AREA EROSION CONTROL PLAN 1 OF 2		PROJECT TITLE PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750		CLIENT ACO POLYURETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750		DRAWING STATUS ISSUED FOR INFORMATION NOT FOR CONSTRUCTION	
MAJ CONSULTING P/L SUITE 8/15-23 BRIDGE STREET PYMBLE, NSW 2073 AUSTRALIA WEB: www.majcon.com.au TEL: (02) 9440 1900 EMAIL: maj@majcon.com.au		MAJ CONSULTING P/L SUITE 8/15-23 BRIDGE STREET PYMBLE, NSW 2073 AUSTRALIA ABN 48690058885 CONSULTING STRUCTURAL & CIVIL ENGINEERS, PROJECT MANAGERS MEMBER ACSE		DRAWING No. C010		REVISION 01									



**EROSION AND SEDIMENTATION CONTROL NOTES**

1. PRIOR TO THE COMMENCEMENT OF SITE DISTURBANCE, THE CONTRACTOR SHALL ESTABLISH ALL NECESSARY EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THIS PLAN AND OTHER RELEVANT GUIDELINES.
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**LEGEND**

- SEDIMENT FENCE
- GRAVEL FILLED FABRIC SILT BAG
- GEOTEXTILE INLET FILTER
- STABILISED SITE ACCESS

**EROSION CONTROL PLAN**  
SCALE 1:200 AT A1

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REVISION	ISSUED FOR INFORMATION	DESCRIPTION	DATE	APPROVED
01	ISSUED FOR INFORMATION		02 09 2019	

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DES. CH'KED

DRAWN HL  
DESIGN HL  
DATE SEP 2019  
SCALE AS SHOWN

DRAWING TITLE  
EXTERNAL HARDSTAND AREA  
EROSION CONTROL PLAN 2 OF 2

PROJECT TITLE  
PROPOSED ALTERATIONS & ADDITIONS  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

CLIENT  
ACQ POLYURETE PTY. LTD.  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

**majcon** MEMBER

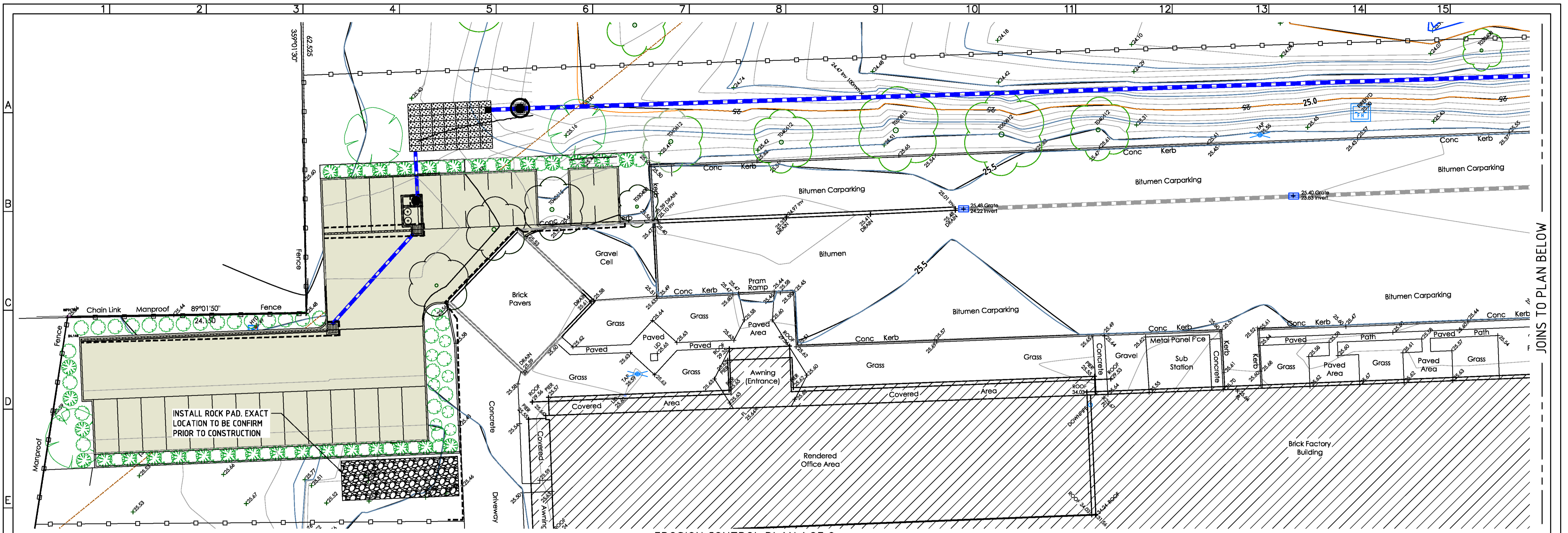
MAJ CONSULTING PTY. LTD. ABN 48690058885  
CONSULTING STRUCTURAL & CIVIL ENGINEERS, PROJECT MANAGERS

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PYMBLE, NSW 2073  
AUSTRALIA

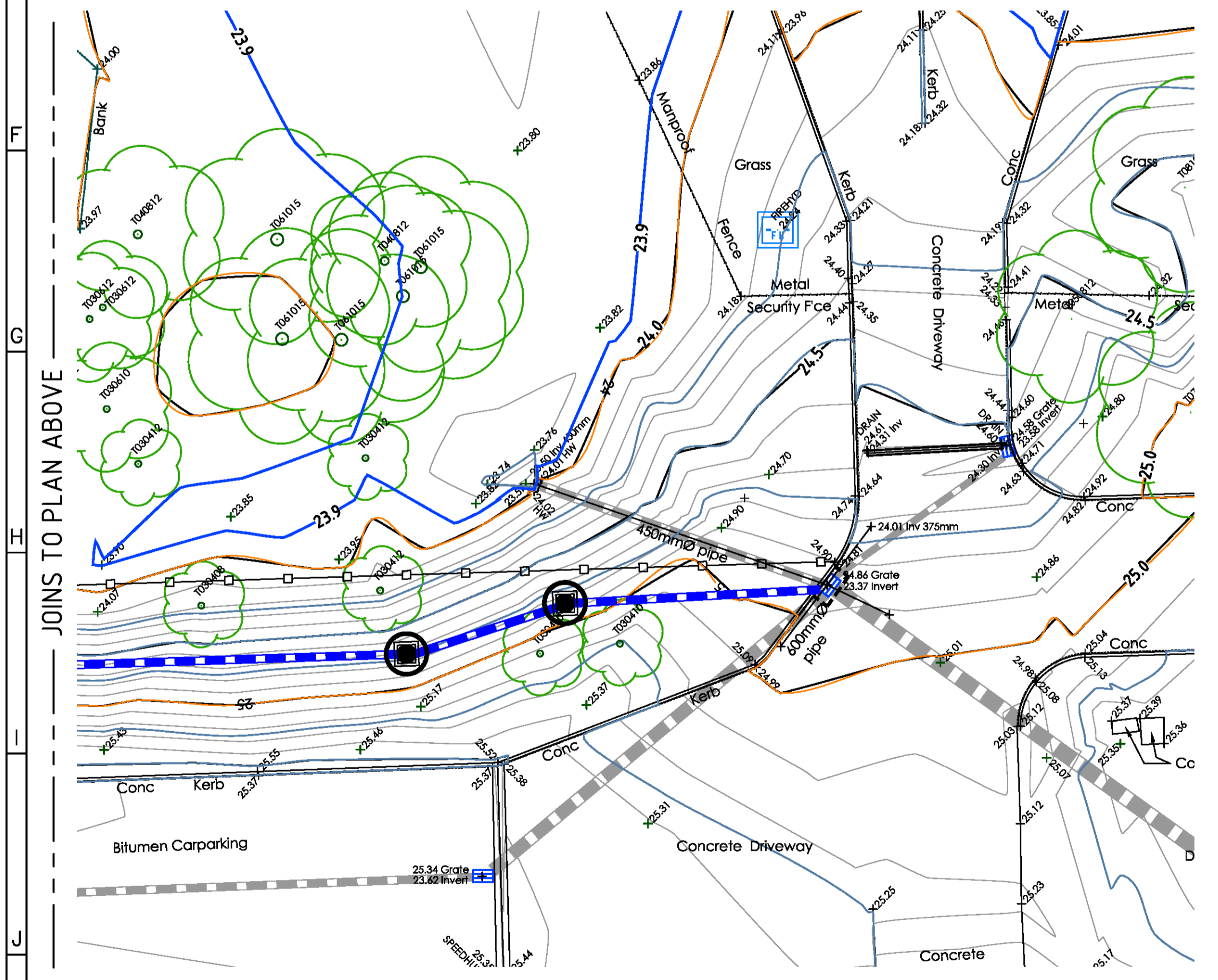
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DRAWING No. C011  
REVISION 01



EROSION CONTROL PLAN 1 OF 2  
SCALE 1:200 AT A1



EROSION CONTROL PLAN 2 OF 2  
SCALE 1:200 AT A1

**EROSION AND SEDIMENTATION CONTROL NOTES**

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**LEGEND**

	SEDIMENT FENCE
	GRAVEL FILLED FABRIC SILT BAG
	GEOTEXTILE INLET FILTER
	STABILISED SITE ACCESS

**WARNING:**  
EXISTING SERVICES HAVE BEEN PLOTTED FROM RECORDS SUPPLIED BY THE PUBLIC UTILITY AUTHORITIES. LOCATIONS HAVE BEEN INTERPRETED FROM THESE RECORDS AND ARE APPROXIMATE ONLY. EXTREME CAUTION SHOULD BE TAKEN WHEN EXCAVATING

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REVISION	DESCRIPTION	DATE	APPROVED
02	ISSUED FOR INFORMATION - REVISED DRAWING FOR DA SUBMISSION	08 09 2019	
01	ISSUED FOR INFORMATION	02 09 2019	

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DRG. CHK'D  
DES. CHK'D

DRAWN HL  
DESIGN HL  
DATE SEP 2019  
SCALE AS SHOWN

DRAWING TITLE  
NEW BITUMEN CARPARK  
EROSION CONTROL PLAN

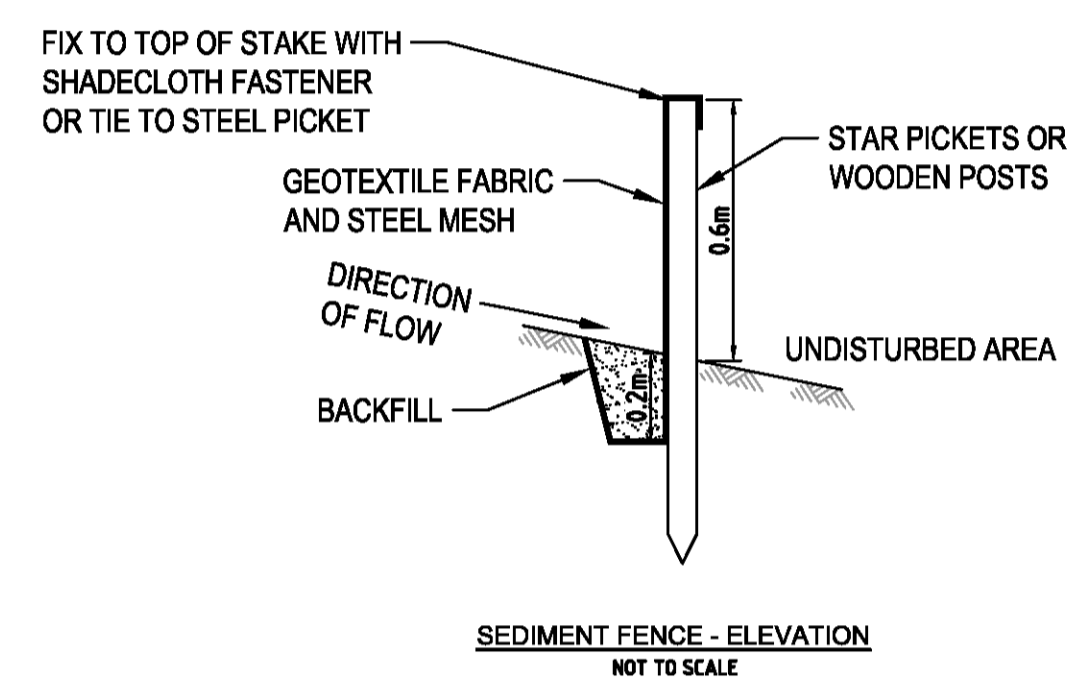
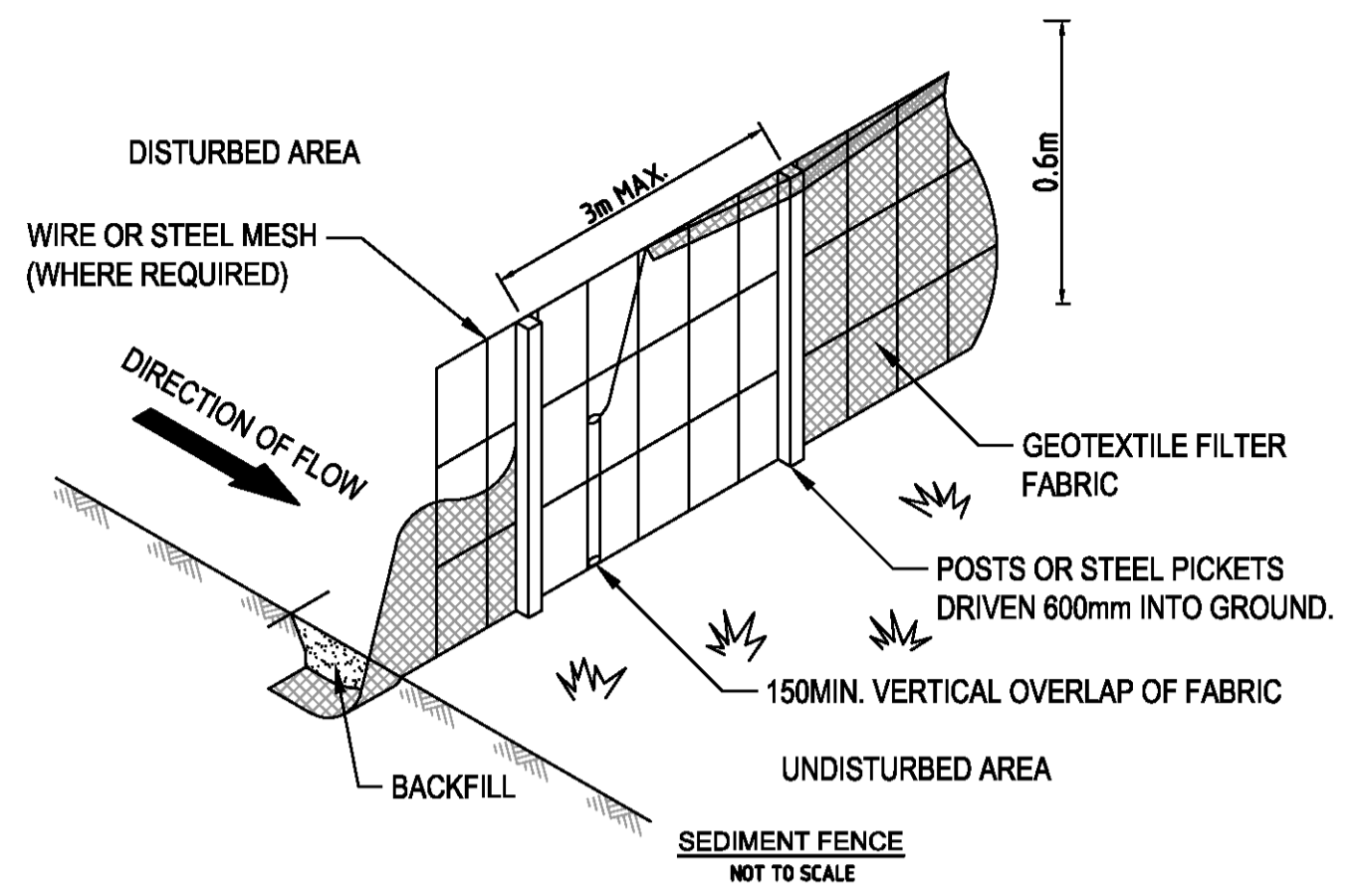
PROJECT TITLE  
PROPOSED ALTERATIONS & ADDITIONS  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

CLIENT  
ACC POLYCRETE PTY. LTD.  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

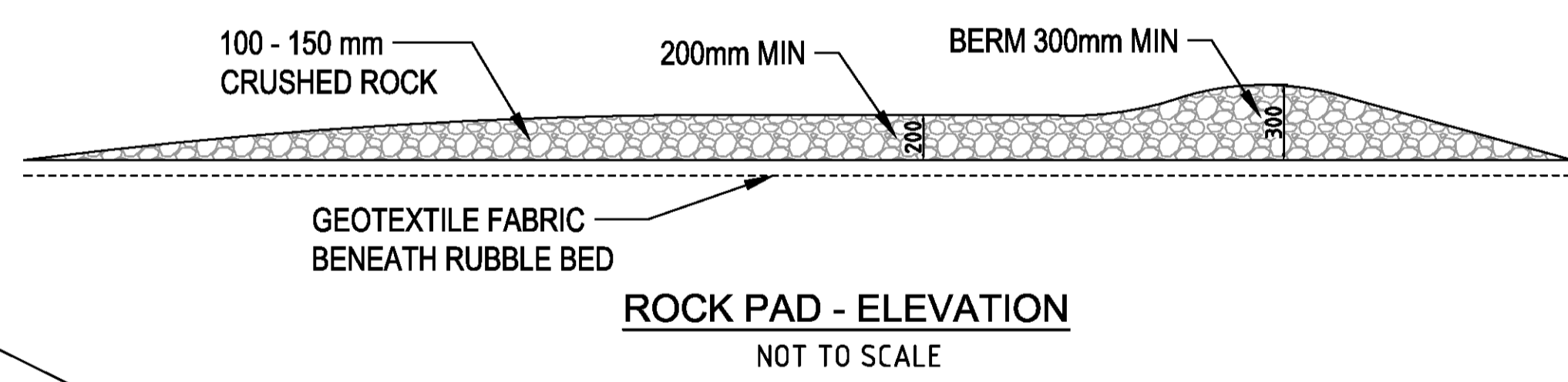
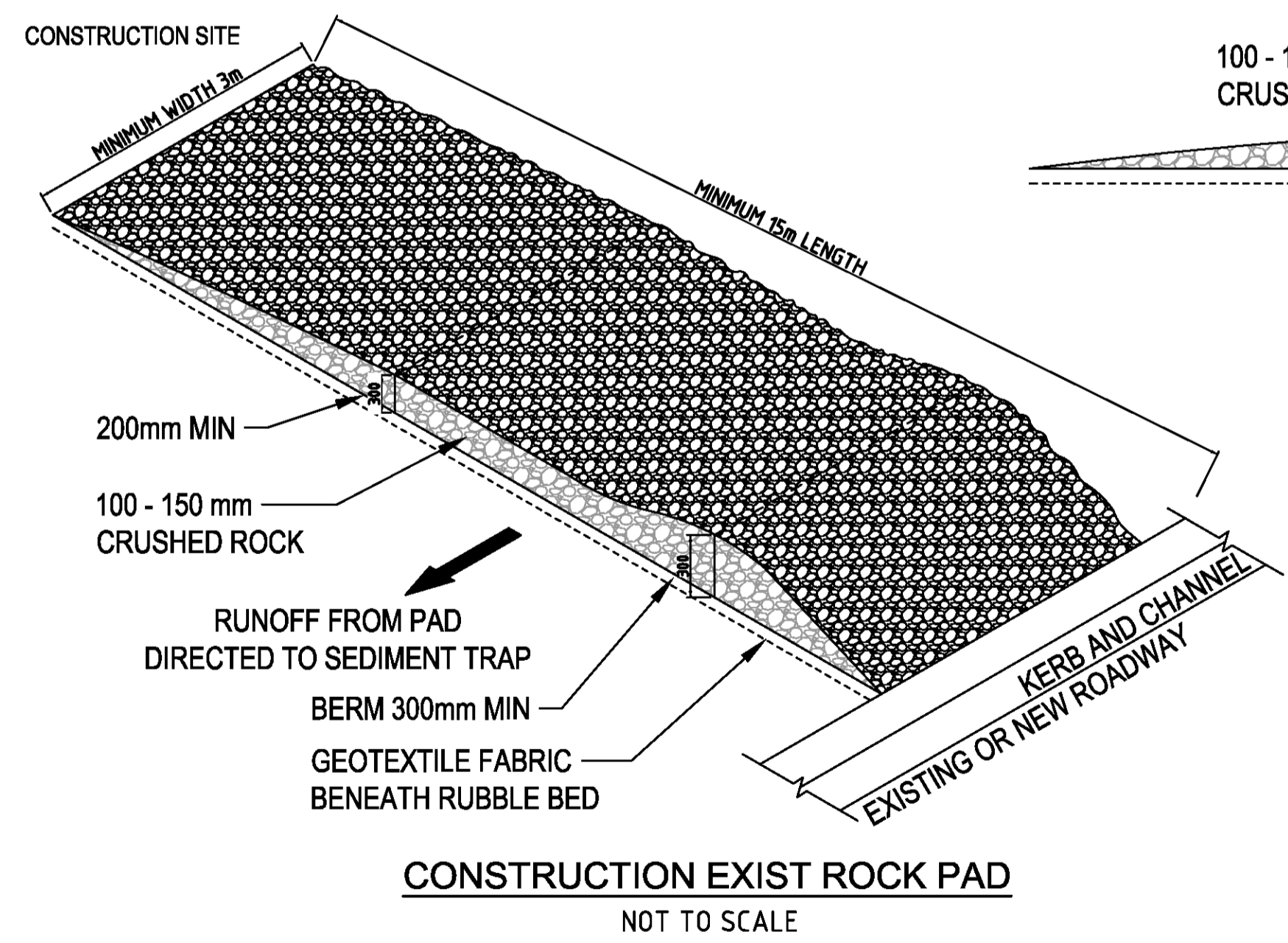
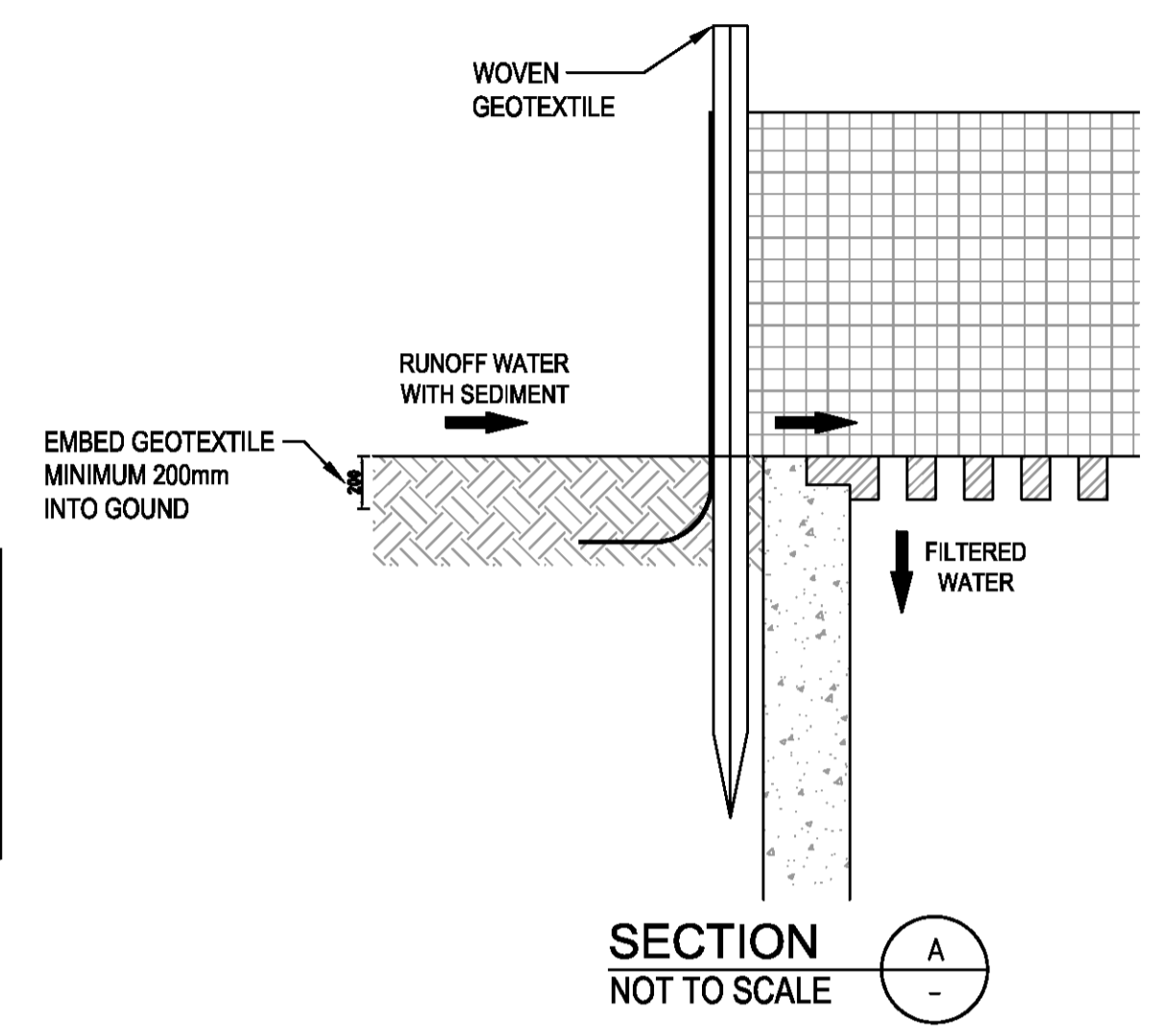
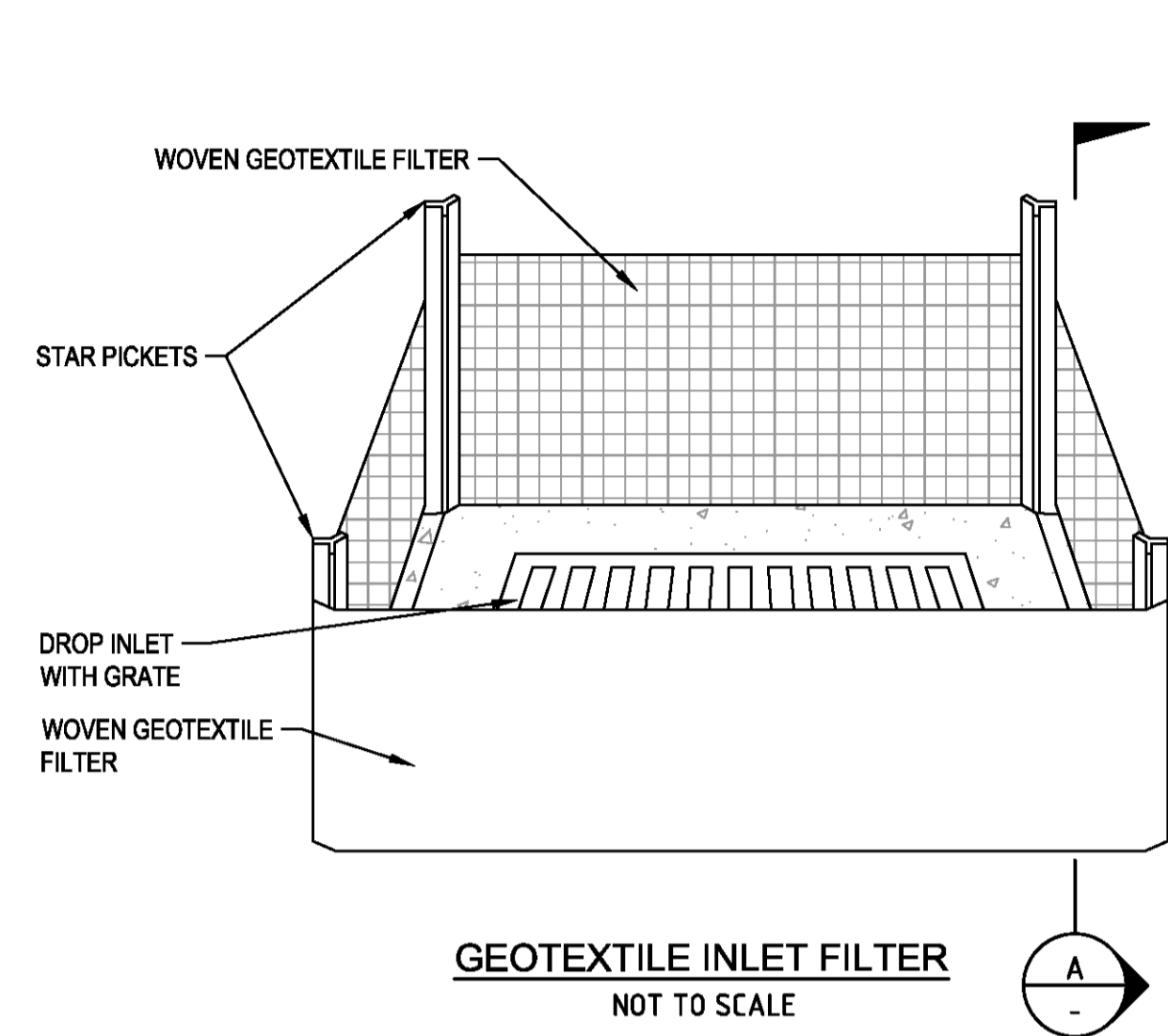
**majcon**  
MAJ CONSULTING PTY. LTD. ABN 48590058985  
CONSULTING STRUCTURAL & CIVIL ENGINEERS, PROJECT MANAGERS  
SUITE 8/19-23 BRIDGE STREET  
PYMBLE, NSW 2073  
AUSTRALIA

**ACE**  
MEMBER

DRAWING STATUS	ISSUED FOR INFORMATION	NOT FOR CONSTRUCTION
DRAWING No.	REVISION	
C012	02	



- CONSTRUCTION NOTES:**
1. CONSTRUCT SEDIMENT CONTROL FENCE AS CLOSE AS POSSIBLE TO PARALLEL THE CONTOURS OF THE SITE.
  2. DRIVE 1.5m LONG STAR PICKETS OR WOODEN POSTS A MINIMUM OF 600mm INTO GROUND AT 3m (MAX.) INTERVALS.
  3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
  4. BACKFILL TRENCH OVER BASE OF FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.
  5. FIX SELF-SUPPORTING GEOTEXTILE FABRIC TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
  6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
  7. GEOTEXTILE MATERIAL USED IS TO BE APPROPRIATE FOR SILT FENCE APPLICATIONS AND TO BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS.
  8. MAXIMUM SLOPE GRADIENT TO BE 1:2.
  9. MAXIMUM SLOPE LENGTH TO BE 60m.
  10. FIT STAR PICKETS WITH YELLOW SAFETY CAPS AFTER INSTALLATION.
  11. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.



- CONSTRUCTION NOTES:**
1. STRIP TOPSOIL, LEVEL SITE AND COMPACT SUBGRADE.
  2. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
  3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROADBASE OR 30mm AGGREGATE.
  4. ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
  5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO SEDIMENT FENCE.
  6. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

NOT FOR CONSTRUCTION ISSUED FOR INFORMATION

REVISION	DESCRIPTION	DATE	APPROVED
01	ISSUED FOR INFORMATION	02 09 2019	

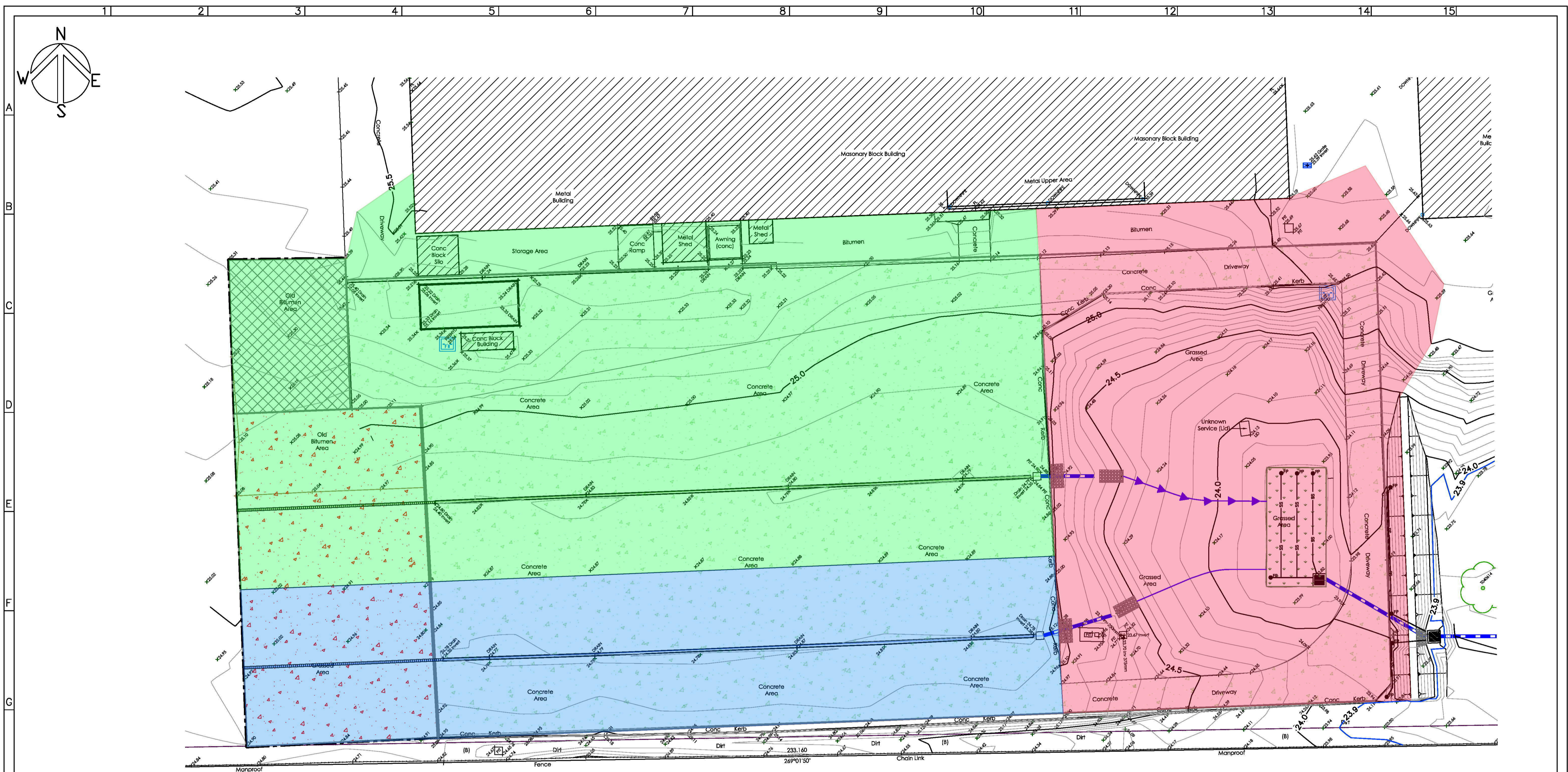
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APPROVED	DRAWN HL	DRAWING TITLE
DRG. CH'KD	DESIGN HL	EROSION CONTROL TYPICAL DETAILS
DES. CH'KD	DATE SEP 2019	PROJECT TITLE
	SCALE AS SHOWN	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

CLIENT	ACC POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750
--------	--

MAJ CONSULTING PTY. LTD. CONSULTING STRUCTURAL & CIVIL ENGINEERS, PROJECT MANAGERS SUITE 8/19-23 BRIDGE STREET PYMBLE, NSW 2073 AUSTRALIA	WEB: www.majcon.com.au TEL: (02) 9440 1900 EMAIL: maj@majcon.com.au
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DRAWING No.	REVISION
C013	01



**CATCHMENT PLAN**  
SCALE 1:250 AT A1

**LEGEND**

- CATCHMENT A - 4490m<sup>2</sup>
- CATCHMENT B - 2035m<sup>2</sup>
- CATCHMENT C - 2930m<sup>2</sup>

**WARNING:**  
EXISTING SERVICES HAVE BEEN PLOTTED FROM RECORDS SUPPLIED BY THE PUBLIC UTILITY AUTHORITIES. LOCATIONS HAVE BEEN INTERPRETED FROM THESE RECORDS AND ARE APPROXIMATE ONLY. EXTREME CAUTION SHOULD BE TAKEN WHEN EXCAVATING.

NOT FOR CONSTRUCTION      ISSUED FOR INFORMATION

REVISION	ISSUED FOR INFORMATION	DESCRIPTION	DATE	APPROVED
01			02 09 2019	

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APPROVED	DRAWN HL	DRAWING TITLE
DRG. CH'KED	DESIGN HL	EXTERNAL HARDSTAND AREA
DES. CH'KED	DATE SEP 2019	CATCHMENT PLAN
	SCALE AS SHOWN	

PROJECT TITLE  
**PROPOSED ALTERATIONS & ADDITIONS  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750**

CLIENT: ACO POLYURETE PTY. LTD.  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

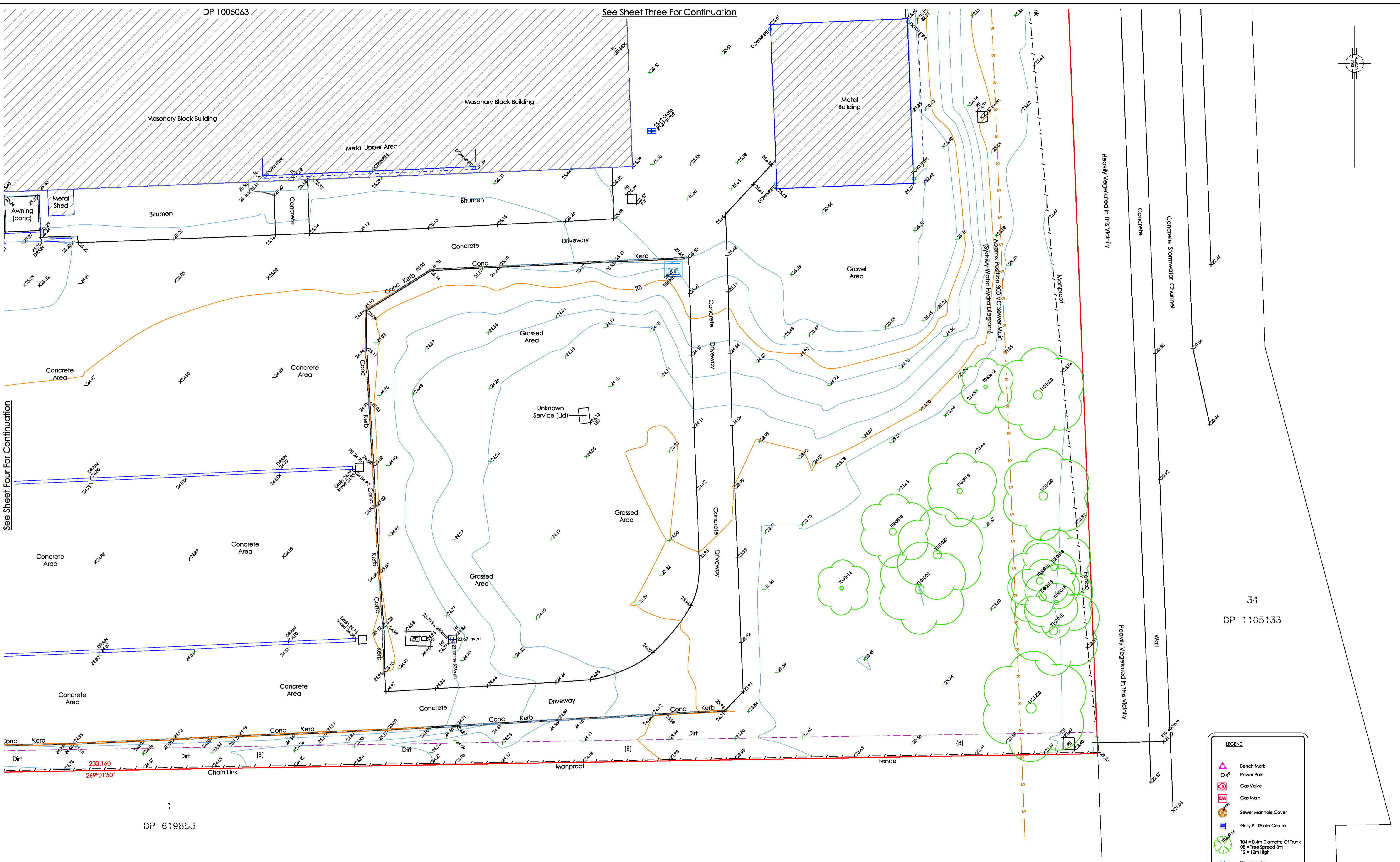
MAJ CONSULTING PTY. LTD.  
SUITE 8/15-23 BRIDGE STREET  
PYMBLE, NSW 2073  
AUSTRALIA



ACSE MEMBER  
WEB: www.majcon.com.au  
TEL: (02) 9440 1900  
EMAIL: maj@majcon.com.au

DRAWING STATUS	ISSUED FOR INFORMATION
DRAWING No.	REVISION
C014	01





See Sheet Four For Continuation

See Sheet Three For Continuation



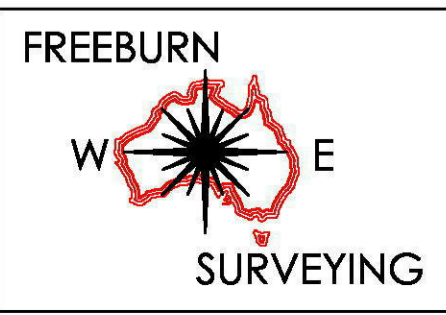
(A) EASEMENT TO DRAIN SEWER 2 WIDE (DP 116773)  
 (B) EASEMENT TO DRAIN WATER 2.5 WIDE (DP 1005063)

**NOTE:**  
 THESE PLANS SHOULD BE READ IN CONJUNCTION WITH DIGITAL DATA ISSUED TO CLIENT. THE DIGITAL DATA CONTAINS NUMEROUS LAYERS OF INFORMATION WHICH ARE NOT SHOWN ON THESE PLANS FOR THE SAKE OF CLARITY.

LEGEND	
	Bench Mark
	Power Pole
	Gas Valve
	Gas Main
	Sewer Manhole Cover
	Gully Pit Grate Centre
	T04 = 0.4m Diameter Of Trunk T08 = Tree Spread 8m T12 = 12m High
	Water Meter
	Water Hydrant
	Water Fire Hydrant
	Water Tap

Client:  
**ACO Polycrete**

Project:  
**PLAN OF DETAIL, LEVELS AND CONTOURS OVER  
 LOT 31 IN DP 1005063  
 No.134-140 OLD BATHURST ROAD, EMU PLAINS**



**MATTHEW FREEBURN**  
 LAND, ENGINEERING & MINING SURVEYOR  
 SUITE 2, FIRST FLOOR, "SURVEYOR HOUSE"  
 2 CASTLEREAGH STREET  
 PENRITH 2750

Telephone 02 4721 2289  
 Fax 02 4721 5646  
 email l.mcgrann@freeburnsurveyors.com  
 or matthew@freeburnsurveyors.com

Scale 1:200	Datum: AHD	Contour: 0.25m
Surveyor: DF/EB	Drawn By: LJMc	Checked: MF
Date of Survey: 18/06/2019	Sheet 5 of 5	
AUTOCAD	REVISION 00	25559 DETAIL



**NOTES:**

- BEARINGS & DISTANCES SHOWN ARE BY TITLE ONLY. NO BOUNDARY INVESTIGATION OR DEFINITION HAS BEEN CARRIED OUT.
- THE POSITION OF THE BUILDINGS, IMPROVEMENTS, FENCES & WALLS SHOWN IN RELATION TO THE BOUNDARIES ARE APPROXIMATE AND DIAGRAMMATIC ONLY. IF THE POSITION OF THESE STRUCTURES ARE CRITICAL TO DESIGN OR FINANCIAL DECISIONS, FREEBURN SURVEYING RECOMMEND A BOUNDARY SURVEY OVERSEEN BY A REGISTERED SURVEYOR.
- DO NOT SCALE OFF THIS PLAN.
- SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. THE POSITION OF ANY UNDERGROUND SERVICES, INCLUDING FIBRE OPTIC CABLES HAVE NOT BEEN DETERMINED. PRIOR TO ANY EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF ANY OTHER SERVICES INCLUDING THOSE WHICH MAY BE UNDERGROUND. "DIAL BEFORE YOU DIG" (www.1100.com.au)
- INDICATES EXISTING SURFACE LEVEL.
- CONTOURS SHOWN DEPICT THE GENERAL TOPOGRAPHY. THEY DO NOT REPRESENT EXACT LEVELS OTHER THAN AT SPOT LEVELS SHOWN.
- THE TREE SIZES ARE APPROXIMATE ONLY. FURTHER FIELD INSPECTION SHOULD BE CARRIED OUT WHERE TREE DETAILS ARE CONSIDERED TO CRITICALLY AFFECT DESIGN.
- ORIGIN OF LEVELS: SSM 49382 RL 25.112 (SCIMS 19-06-2019)

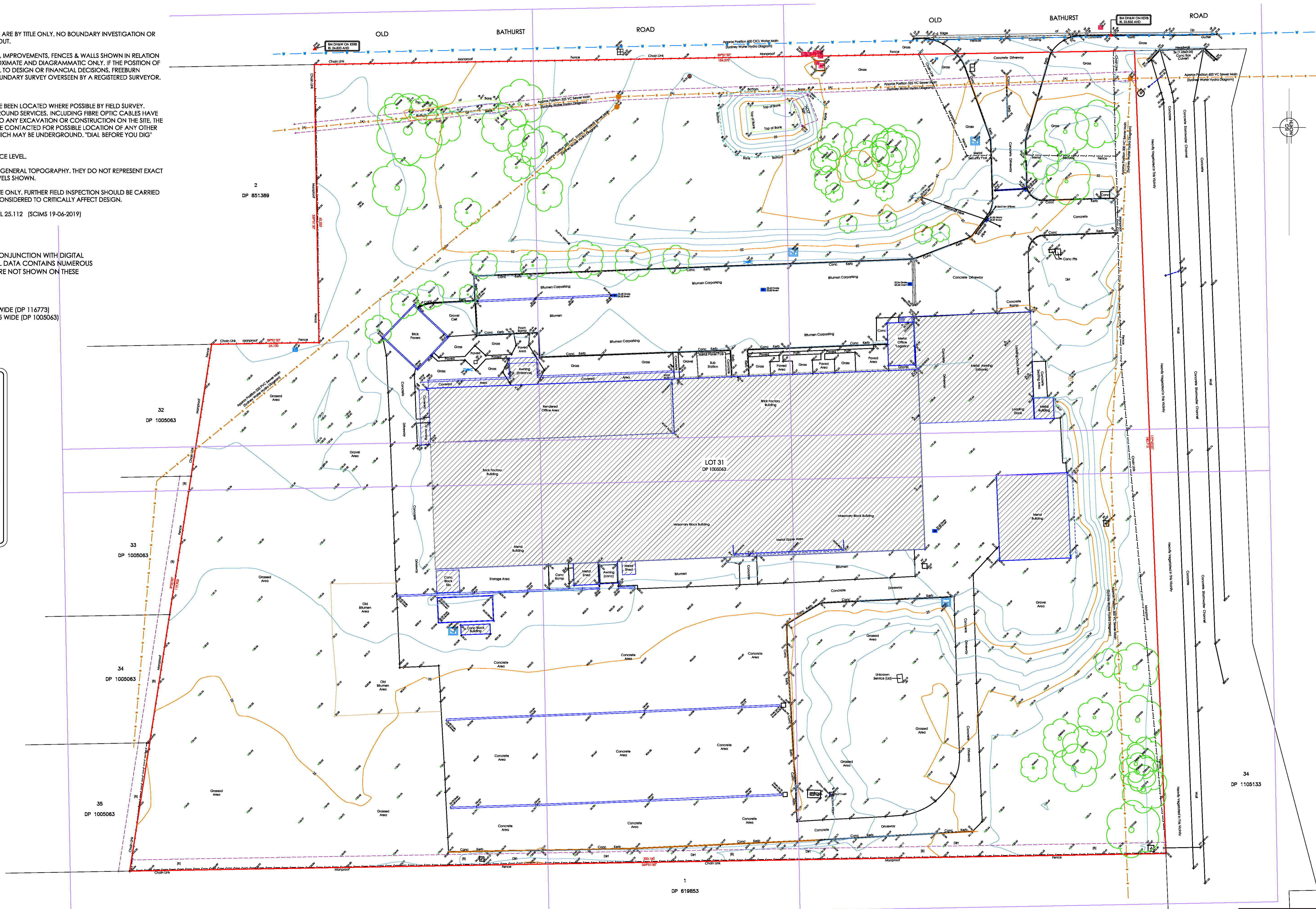
**NOTE:**

THESE PLANS SHOULD BE READ IN CONJUNCTION WITH DIGITAL DATA ISSUED TO CLIENT. THE DIGITAL DATA CONTAINS NUMEROUS LAYERS OF INFORMATION WHICH ARE NOT SHOWN ON THESE PLANS FOR THE SAKE OF CLARITY.

- (A) EASEMENT TO DRAIN SEWER 2 WIDE (DP 114773)
- (B) EASEMENT TO DRAIN WATER 2.5 WIDE (DP 1005063)

**LEGEND**

- Bench Mark
- Power Pole
- Gas Valve
- Gas Main
- Sewer Manhole Cover
- Gully Pit Grate Centre
- 104 = 0.4m Diameter Of Trunk  
08 = Tree Spread 8m  
12 = 12m High
- Water Meter
- Water Hydrant
- Water Fire Hydrant
- Water Tap

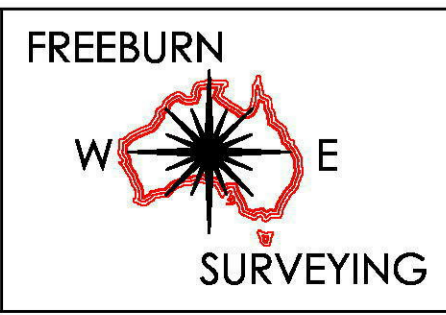


0 10 20 30 40m  
1 : 400



Client:  
ACO Polycrete

Project:  
**PLAN OF DETAIL, LEVELS AND CONTOURS OVER  
LOT 31 IN DP 1005063  
No.134-140 OLD BATHURST ROAD, EMU PLAINS**



**MATTHEW FREEBURN**  
LAND, ENGINEERING & MINING SURVEYOR  
SUITE 2, FIRST FLOOR, "SURVEYOR HOUSE"  
2 CASTLEREAGH STREET  
PENRITH 2750

Telephone 02 4721 2289  
Fax 02 4721 5646  
email l.mcgrann@freeburnsurveyors.com  
or matthew@freeburnsurveyors.com

Scale 1:400	Datum: AHD	Contour: 0.25m
Surveyor: DF/EB	Drawn By: LJMc	Checked: MF
Date of Survey: 18/06/2019	Sheet 1 of 5	
AUTOCAD	REVISION 00	03-07-19 25559 DETAIL

NOTES:

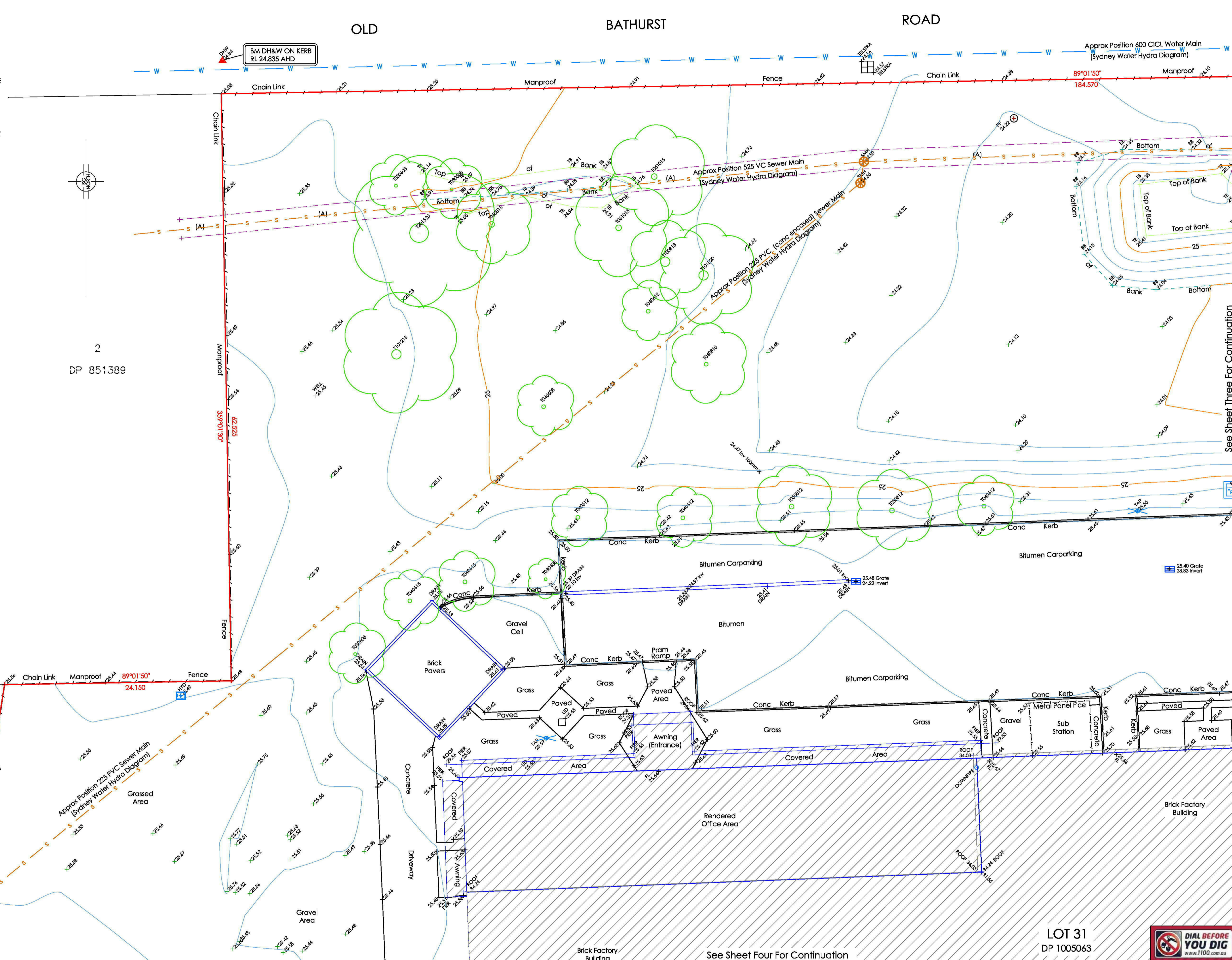
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- ORIGIN OF LEVELS: SSM 49382 RL 25.112 (SCIMS 19-06-2019)

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- (B) EASEMENT TO DRAIN WATER 2.5 WIDE (DP 1005063)

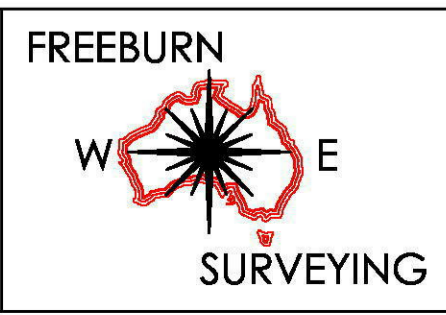
**LEGEND**

- Bench Mark
- Power Pole
- Gas Valve
- Gas Main
- Sewer Manhole Cover
- Gully Pit Grate Centre
- T04 = 0.4m Diameter Of Trunk  
08 = Tree Spread 8m  
12 = 12m High
- Water Meter
- Water Hydrant
- Water Fire Hydrant
- Water Tap



Client:  
**ACO Polycrrete**

Project:  
**PLAN OF DETAIL, LEVELS AND CONTOURS OVER LOT 31 IN DP 1005063 No.134-140 OLD BATHURST ROAD, EMU PLAINS**



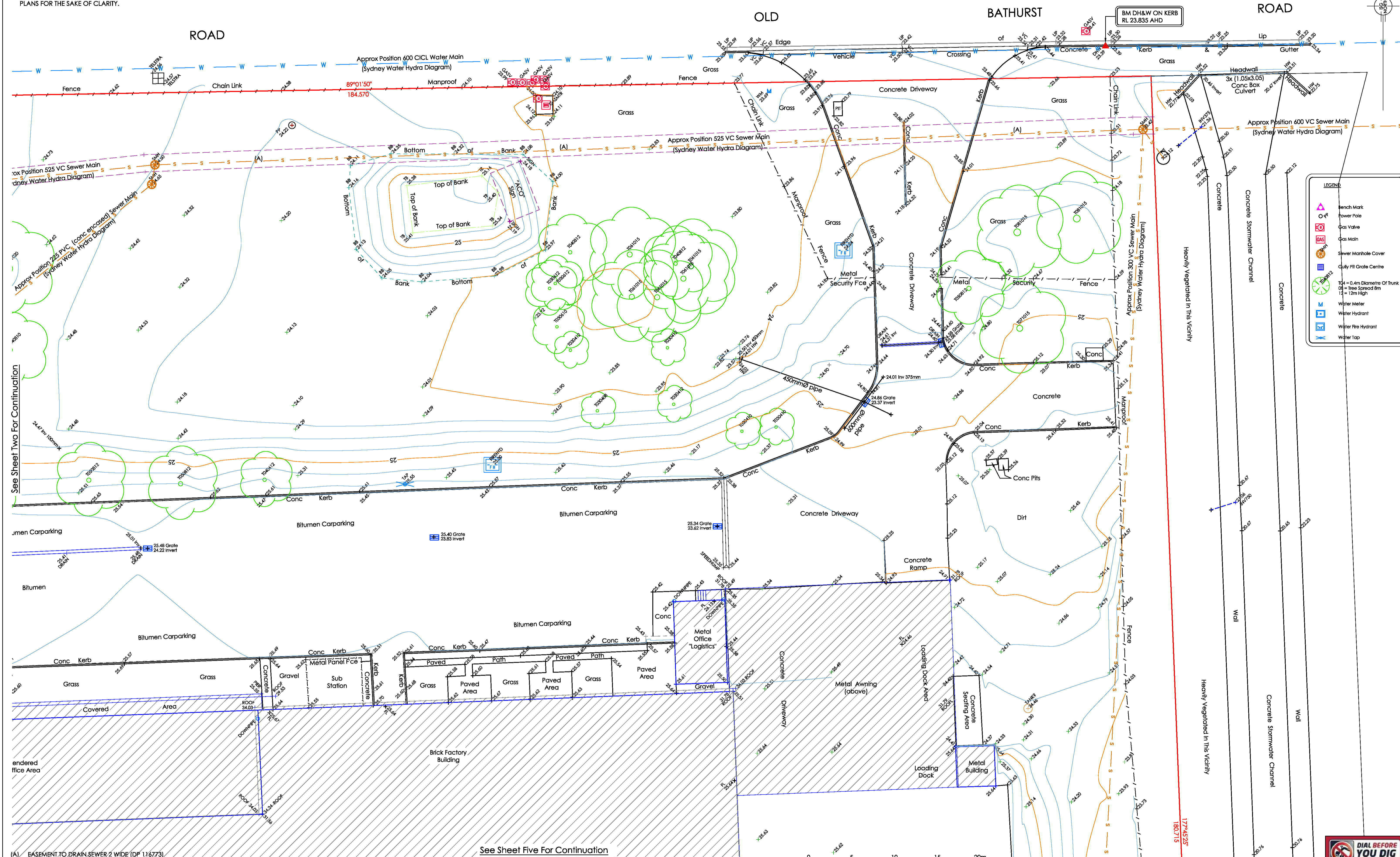
**MATTHEW FREEBURN**  
LAND, ENGINEERING & MINING SURVEYOR  
SUITE 2, FIRST FLOOR, "SURVEYOR HOUSE"  
2 CASTLEREAGH STREET  
PENRITH 2750

Telephone 02 4721 2289  
Fax 02 4721 5646  
email l.mcgrann@freeburnsurveyors.com  
or matthew@freeburnsurveyors.com

Scale 1:200	Datum: AHD	Contour: 0.25m
Surveyor: DF/EB	Drawn By: LJMc	Checked: MF
Date of Survey: 18/06/2019		Sheet 2 of 5
AUTOCAD	REVISION 00	25559 DETAIL



**NOTE:**  
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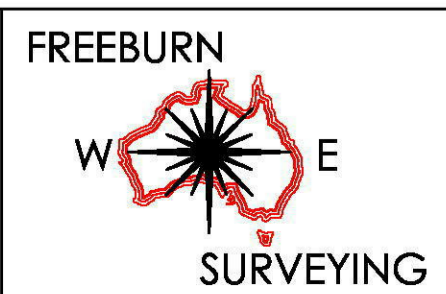
See Sheet Two For Continuation

See Sheet Five For Continuation

(A) EASEMENT TO DRAIN SEWER 2 WIDE (DP 116773)  
(B) EASEMENT TO DRAIN WATER 2.5 WIDE (DP 1005063)

Client:  
**ACO Polycrete**

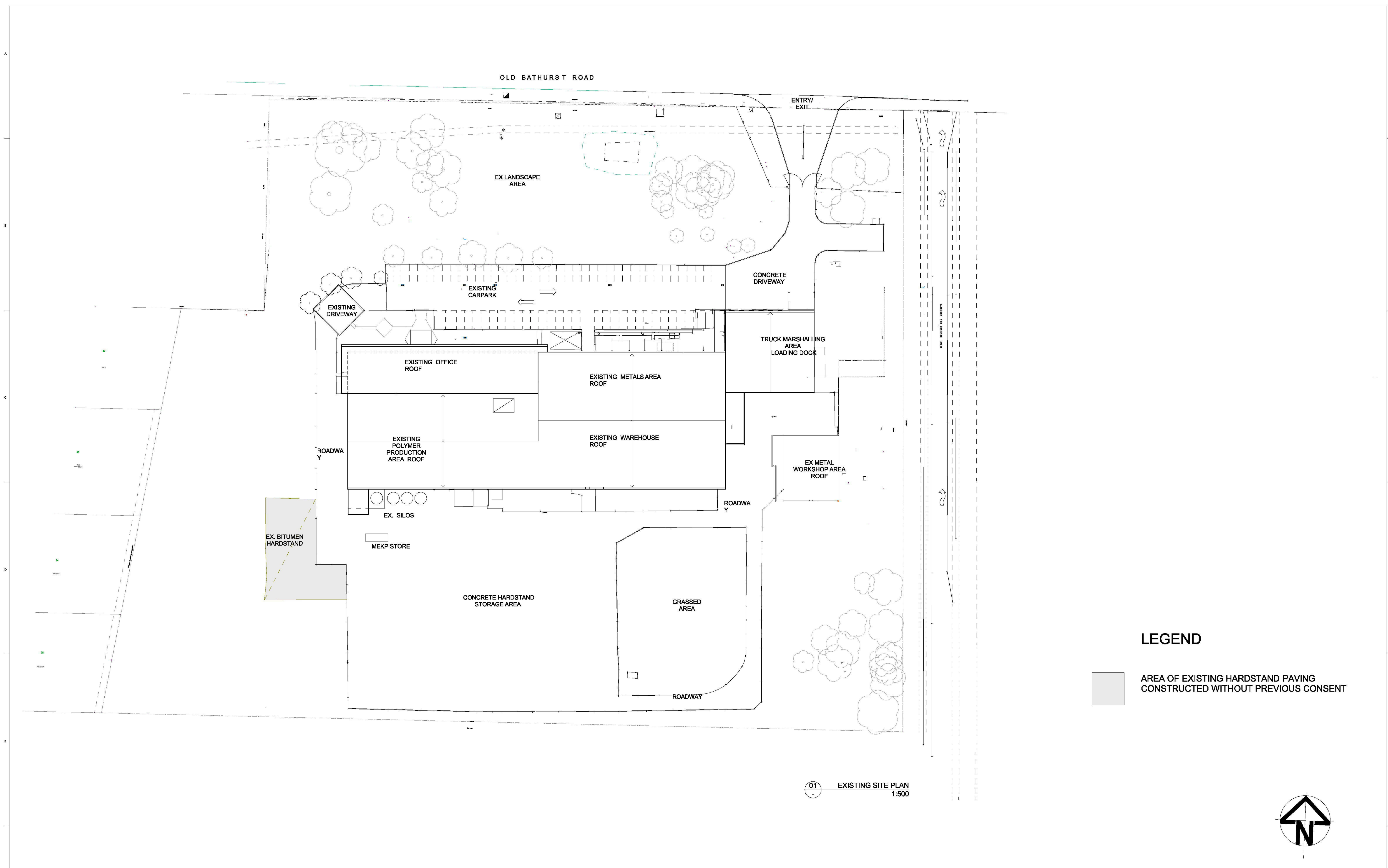
Project:  
**PLAN OF DETAIL, LEVELS AND CONTOURS OVER  
LOT 31 IN DP 1005063  
No.134-140 OLD BATHURST ROAD, EMU PLAINS**



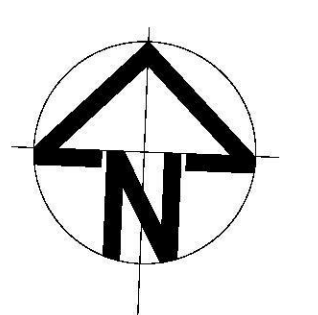
**MATTHEW FREEBURN**  
LAND, ENGINEERING & MINING SURVEYOR  
SUITE 2, FIRST FLOOR, "SURVEYOR HOUSE"  
2 CASTLEREAGH STREET  
PENRITH 2750

Telephone 02 4721 2289  
Fax 02 4721 5646  
email l.mcgrann@freeburnsurveyors.com  
or matthew@freeburnsurveyors.com

Scale 1:200	Datum: AHD	Contour: 0.25m
Surveyor: DF/EB	Drawn By: LJM	Checked: MF
Date of Survey: 18/06/2019	Sheet 3 of 5	
AUTOCAD	REVISION 00	25559 DETAIL



01 EXISTING SITE PLAN  
1:500



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No.	Description	Date
01	PRELIMINARY PRE DA ISSUE	13/5/2019
02	DA REVIEW ISSUE	16/8/2019
03	PRELIMINARY DA ISSUE	23/8/2019
04	DA ISSUE	12/9/2019

No.	Description	Date
01	PRELIMINARY PRE DA ISSUE	13/5/2019
02	DA REVIEW ISSUE	16/8/2019
03	PRELIMINARY DA ISSUE	23/8/2019
04	DA ISSUE	12/9/2019

Consultant  
**Foran Design**  
 ARCHITECTS

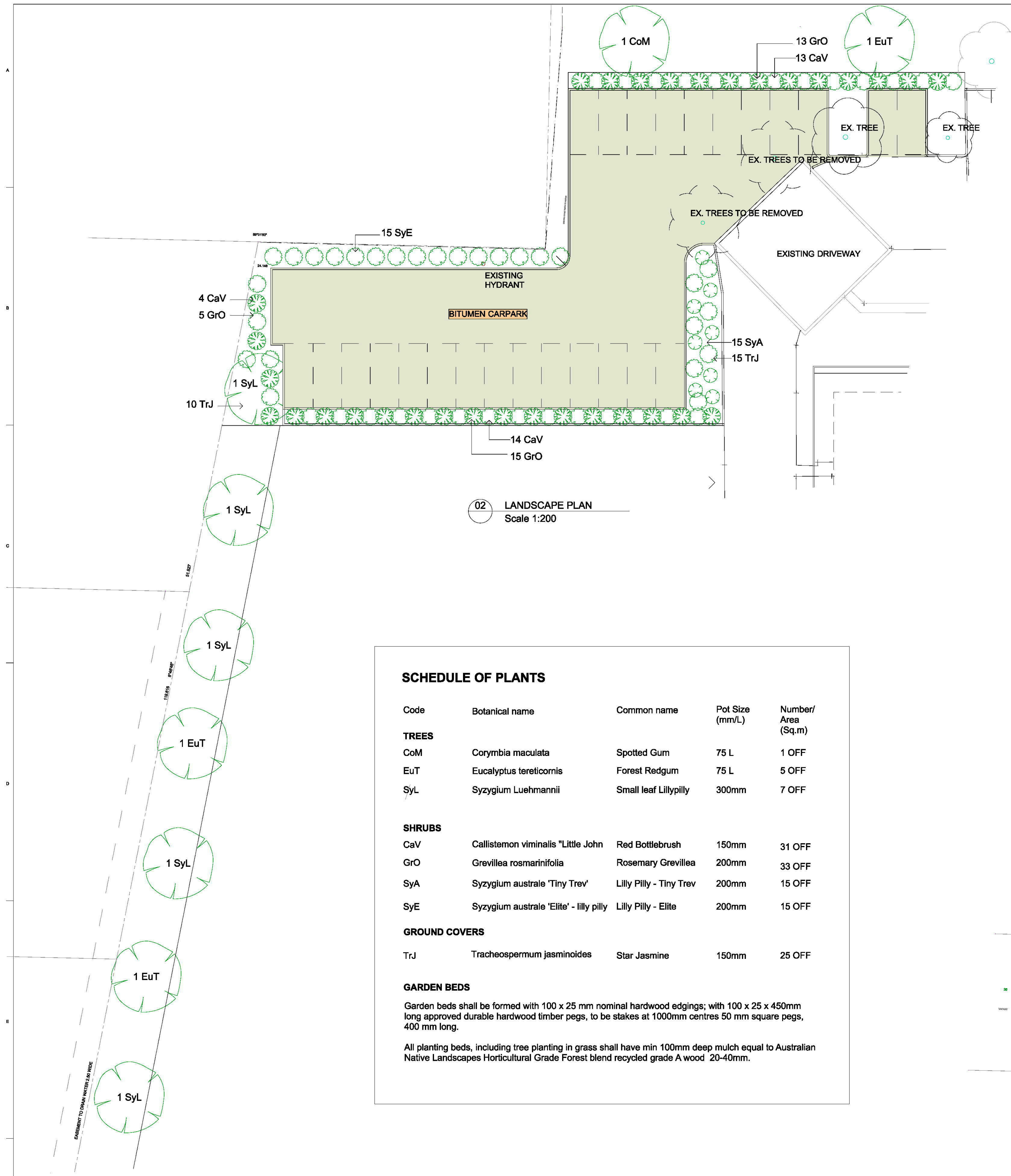
Foran Design Pty Ltd  
 A.C.N. 074 159 488  
 Suite 11, 191 Victoria Road, Gladstoneville, NSW 2111 Australia  
 Tel: (02) 9879 0152 Fax: (02) 9879 0165  
 Email: foran@wdk.com.au

Client  
**ACO**  
 134-140 OLD BATHURST ROAD, EMU PLAINS

Project Name  
**MAJOR UPGRADE PROJECT**  
 134-140 OLD BATHURST ROAD, EMU PLAINS

Drawing Title  
**EXISTING SITE PLAN**

Drawn By	Checked	Approved By	Date App.
CK	AF	AF	13/05/19
Drawing Scale	Drawing Status	Drawing Size	
1:500, 1:80@A1	DA ISSUE	A1	
Project No.	Dwg File No	Rev No	
474-N-19	SK101	04	



02 LANDSCAPE PLAN  
Scale 1:200

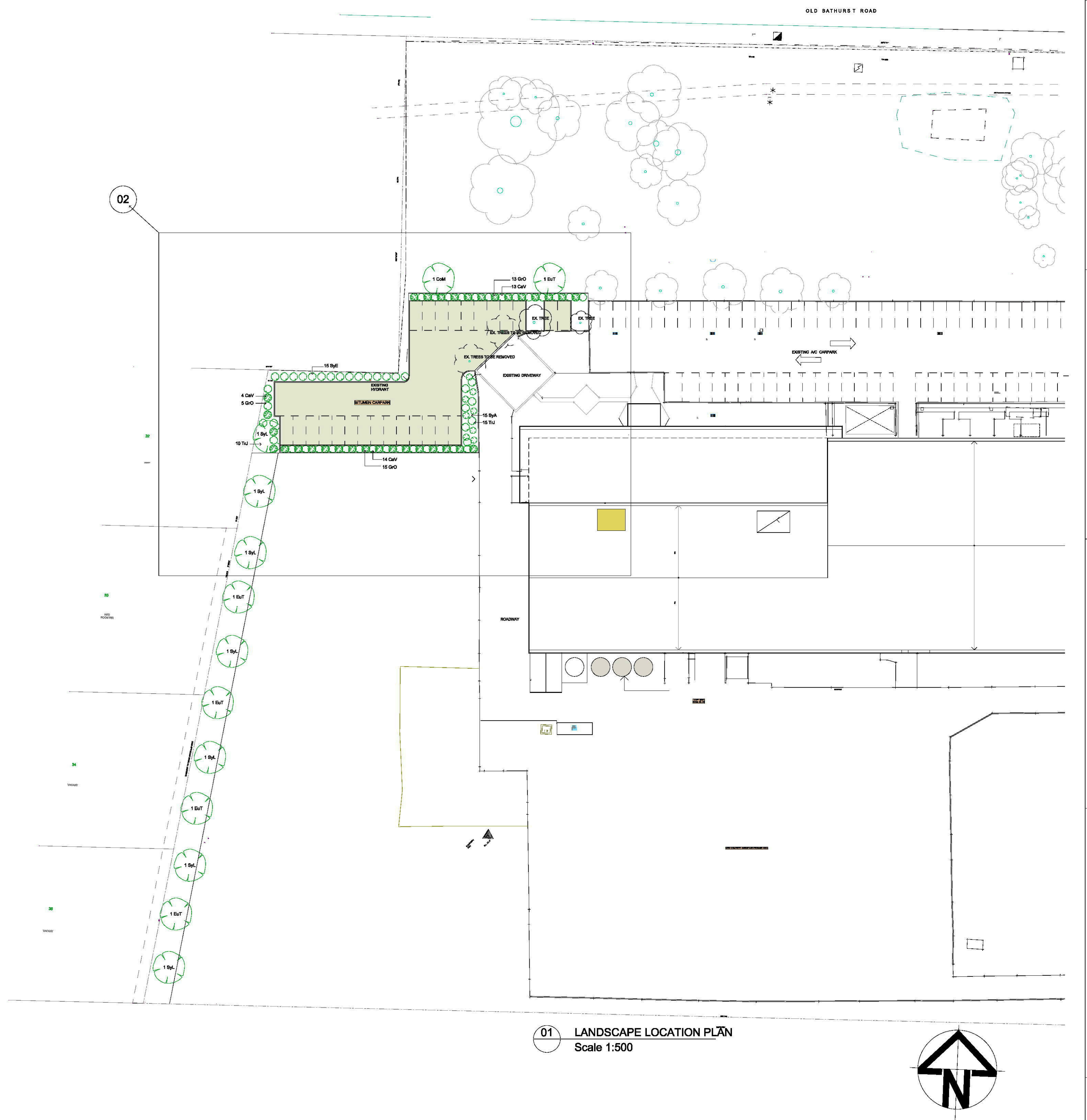
**SCHEDULE OF PLANTS**

Code	Botanical name	Common name	Pot Size (mm/L)	Number/ Area (Sq.m)
<b>TREES</b>				
CoM	<i>Corymbia maculata</i>	Spotted Gum	75 L	1 OFF
EuT	<i>Eucalyptus tereticornis</i>	Forest Redgum	75 L	5 OFF
SyL	<i>Syzygium Luehmannii</i>	Small leaf Lillypilly	300mm	7 OFF
<b>SHRUBS</b>				
CaV	<i>Callistemon viminalis</i> 'Little John	Red Bottlebrush	150mm	31 OFF
GrO	<i>Grevillea rosmarinifolia</i>	Rosemary Grevillea	200mm	33 OFF
SyA	<i>Syzygium australe</i> 'Tiny Trev'	Lilly Pilly - Tiny Trev	200mm	15 OFF
SyE	<i>Syzygium australe</i> 'Elite' - lilly pilly	Lilly Pilly - Elite	200mm	15 OFF
<b>GROUND COVERS</b>				
TrJ	<i>Tracheospermum jasminoides</i>	Star Jasmine	150mm	25 OFF

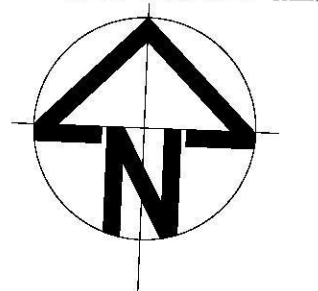
**GARDEN BEDS**

Garden beds shall be formed with 100 x 25 mm nominal hardwood edgings; with 100 x 25 x 450mm long approved durable hardwood timber pegs, to be stakes at 1000mm centres 50 mm square pegs, 400 mm long.

All planting beds, including tree planting in grass shall have min 100mm deep mulch equal to Australian Native Landscapes Horticultural Grade Forest blend recycled grade A wood 20-40mm.



01 LANDSCAPE LOCATION PLAN  
Scale 1:500



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No.	Description	Date
01	PRELIMINARY PRE DA ISSUE	13/5/2019
02	DA REVIEW ISSUE	16/8/2019
03	PRELIMINARY DA ISSUE	23/8/2019
04	DA ISSUE	12/9/2019

Consultant  
**Foran Design**  
ARCHITECTS

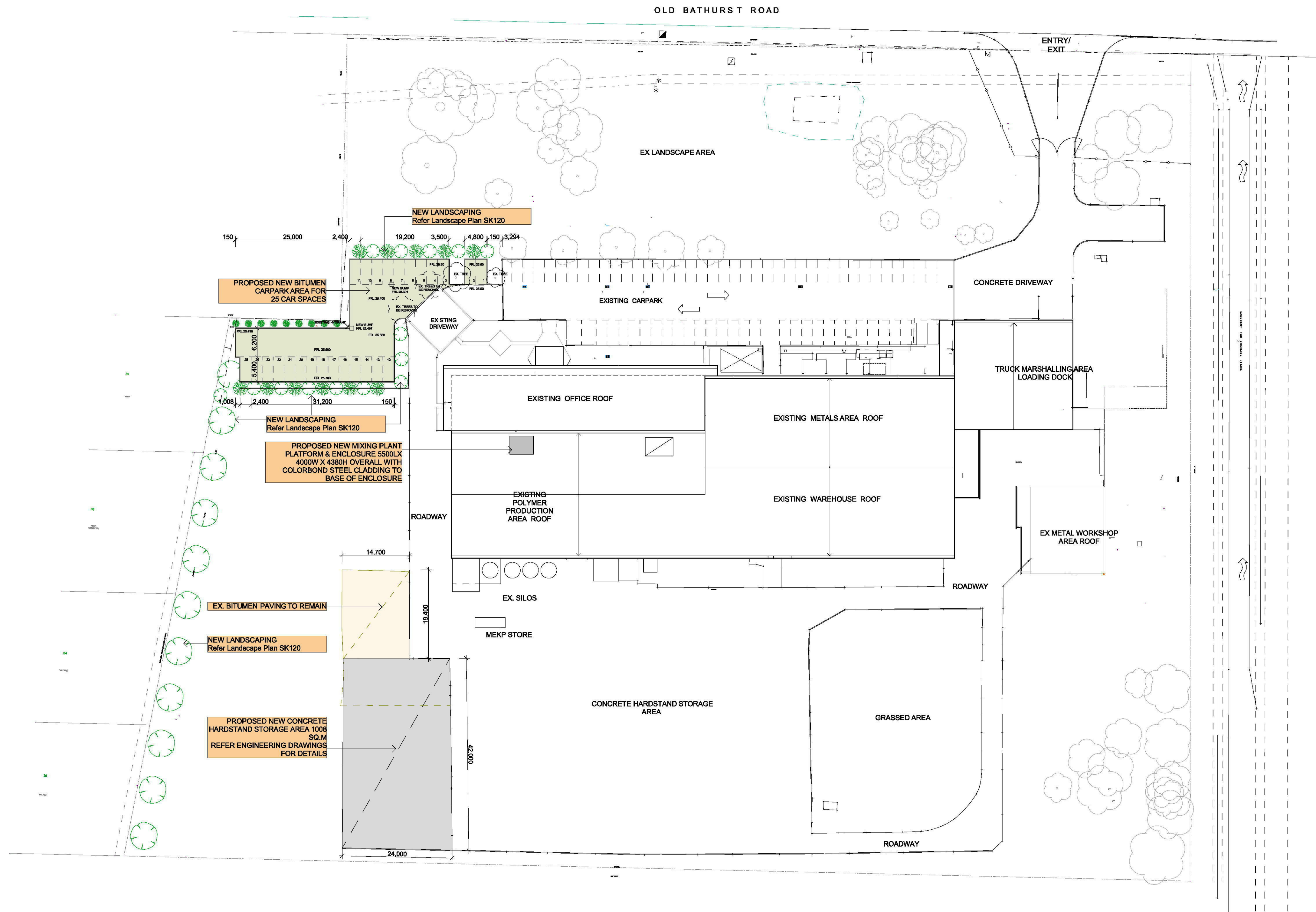
Foran Design Pty Ltd  
A.C.N. 074 159 488  
Suite 11, 191 Victoria Road, Gladstoneville, NSW 2111 Australia  
Tel: (02) 9879 0152 Fax: (02) 9879 0165  
Email: foran@wdk.com.au

Client  
**ACO**  
134-140 OLD BATHURST ROAD, EMU PLAINS

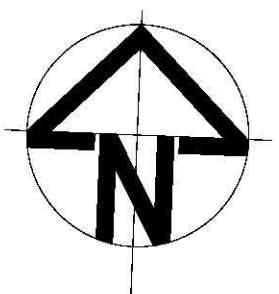
Project Name  
**MAJOR UPGRADE PROJECT**  
134-140 OLD BATHURST ROAD, EMU PLAINS

Drawing Title  
**LANDSCAPE PLAN**

Drawn By	Checked	Approved By	Date App.
CK	AF	AF	13/05/19
Drawing Scale	1:130, 1:500, 1:200@A1	Drawing Status	DA ISSUE
Project No.	474-N-19	Dwg File No	SK120
		Rev No	04



01 OVERALL SITE PLAN  
1:500



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 6. DO NOT KEEP SUPERSEDED DRAWINGS ON SITE.

No.	Description	Date
01	PRELIMINARY PRE DA ISSUE	13/5/2019
02	DA REVIEW ISSUE	16/8/2019
03	PRELIMINARY DA ISSUE	23/8/2019
04	DA ISSUE	12/9/2019

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**Foran Design**  
 ARCHITECTS

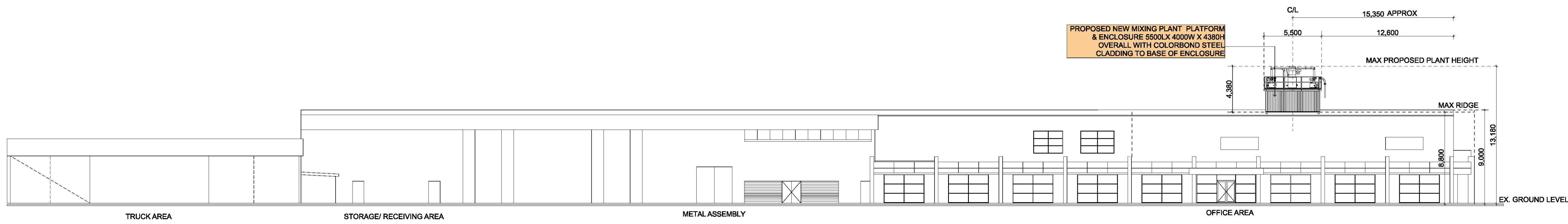
Foran Design Pty Ltd  
 A.C.N. 074 159 488  
 Suite 11, 191 Victoria Road, Gladstoneville, NSW 2111 Australia  
 Tel: (02) 9879 0152 Fax: (02) 9879 0165  
 Email: foran@wd.com.au

Client  
**ACO**  
 134-140 OLD BATHURST ROAD, EMU PLAINS

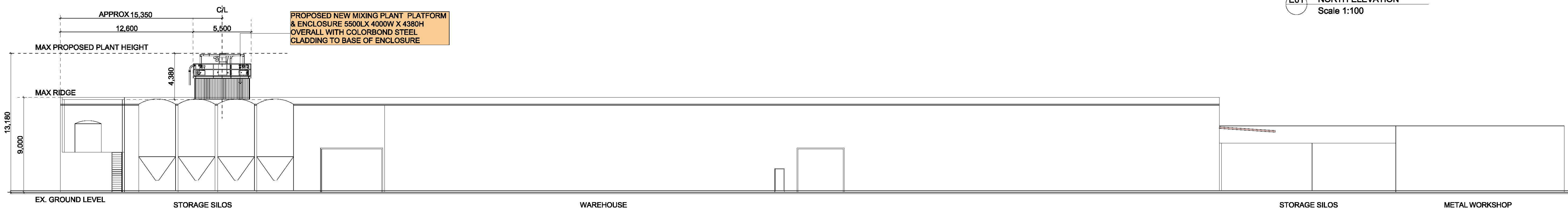
Project Name  
**MAJOR UPGRADE PROJECT**  
 134-140 OLD BATHURST ROAD, EMU PLAINS

Drawing Title  
**PROPOSED NEW WORKS SITE PLAN**

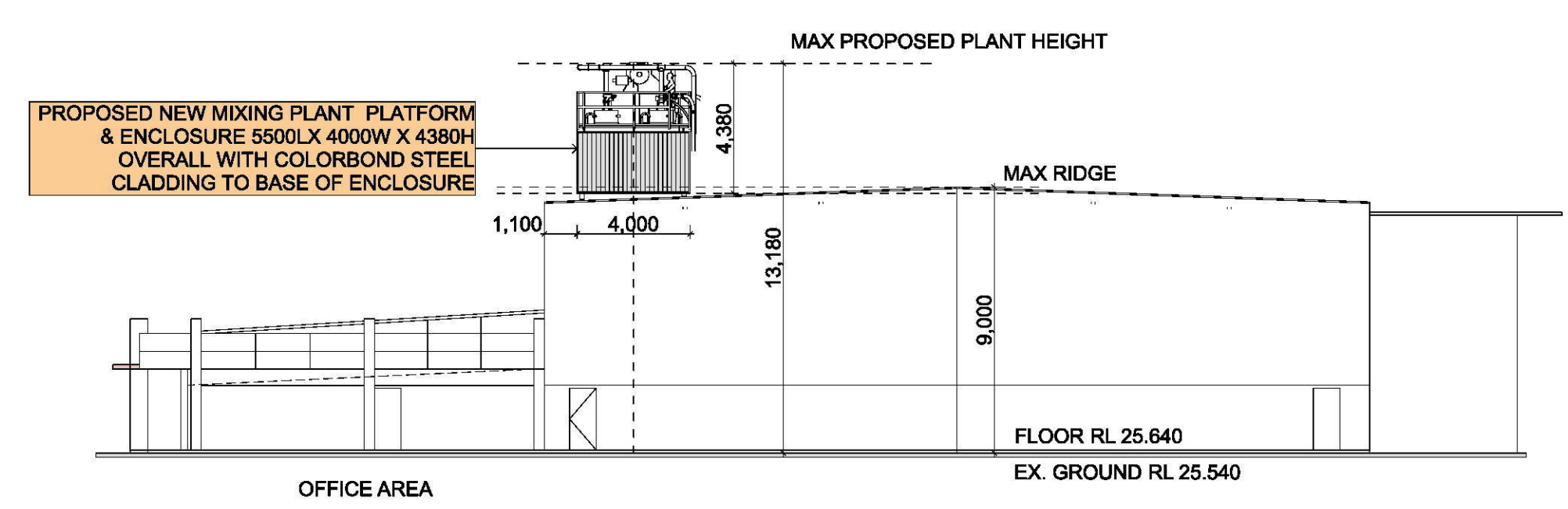
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CK	AF	AF	13/05/19
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Project No.	Dwg File No	Rev No	
474-N-19	SK 110	04	



E01 NORTH ELEVATION  
Scale 1:100



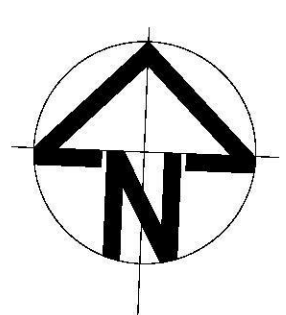
E02 SOUTH ELEVATION  
Scale 1:100



E03 WEST ELEVATION  
Scale 1:100



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COLORBOND METAL CLADDING COLOUR TO  
ROOF TOP PLANT  
COLORBOND "SURFMIST"



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03	PRELIMINARY DA ISSUE	23/8/2019
04	DA ISSUE	12/9/2019

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ARCHITECTS

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Suite 11, 191 Victoria Road, Gladstoneville, NSW 2111 Australia  
Tel: (02) 9879 0152 Fax: (02) 9879 0165  
Email: foran@wdc.com.au

Client  
**ACO**  
134-140 OLD BATHURST ROAD, EMU PLAINS

Project Name  
**MAJOR UPGRADE PROJECT**  
134-140 OLD BATHURST ROAD, EMU PLAINS

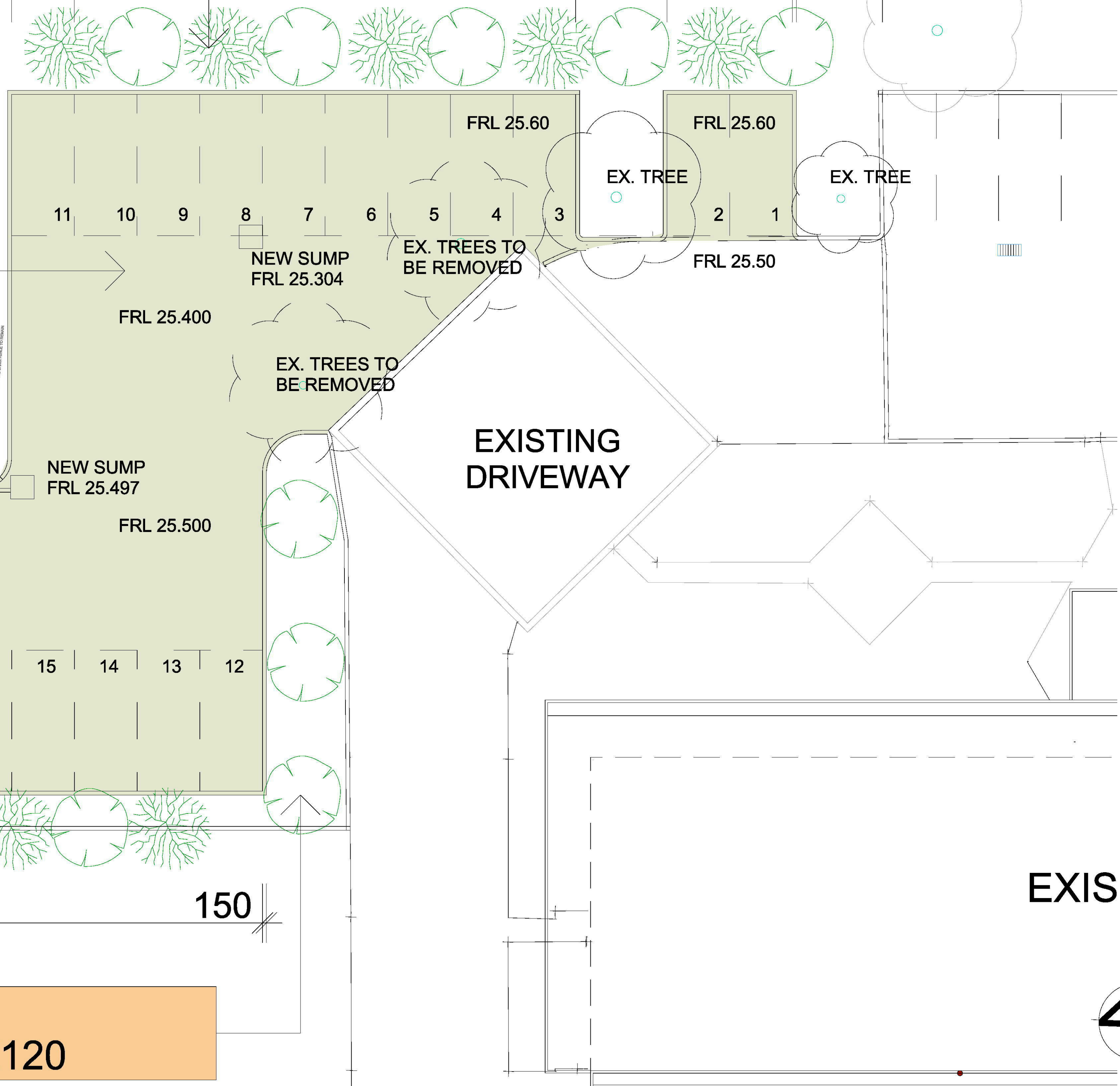
Drawing Title  
**EXTERNAL ELEVATIONS**

Drawn By	Checked	Approved By	Date App.
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Drawing Scale	Drawing Status	Drawing Size	Rev No
1:200@A1	DA ISSUE	A1	04
Project No.	Dwg File No	Rev No	
474-N-19	SK 111	04	

**NEW LANDSCAPING**  
Refer Landscape Plan SK120

150 25,000 2,400 19,200 3,500 4,800 150 3,294

**PROPOSED NEW BITUMEN  
CARPARK AREA FOR  
25 CAR SPACES**



**NEW LANDSCAPING**  
Refer Landscape Plan SK120

1,008 2,400 31,200 150

EXIS

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No.	Description	Date
01	PRELIMINARY PRE DA ISSUE	13/5/2019
02	DA REVIEW ISSUE	16/8/2019
03	PRELIMINARY DA ISSUE	23/8/2019
04	DA ISSUE	12/9/2019

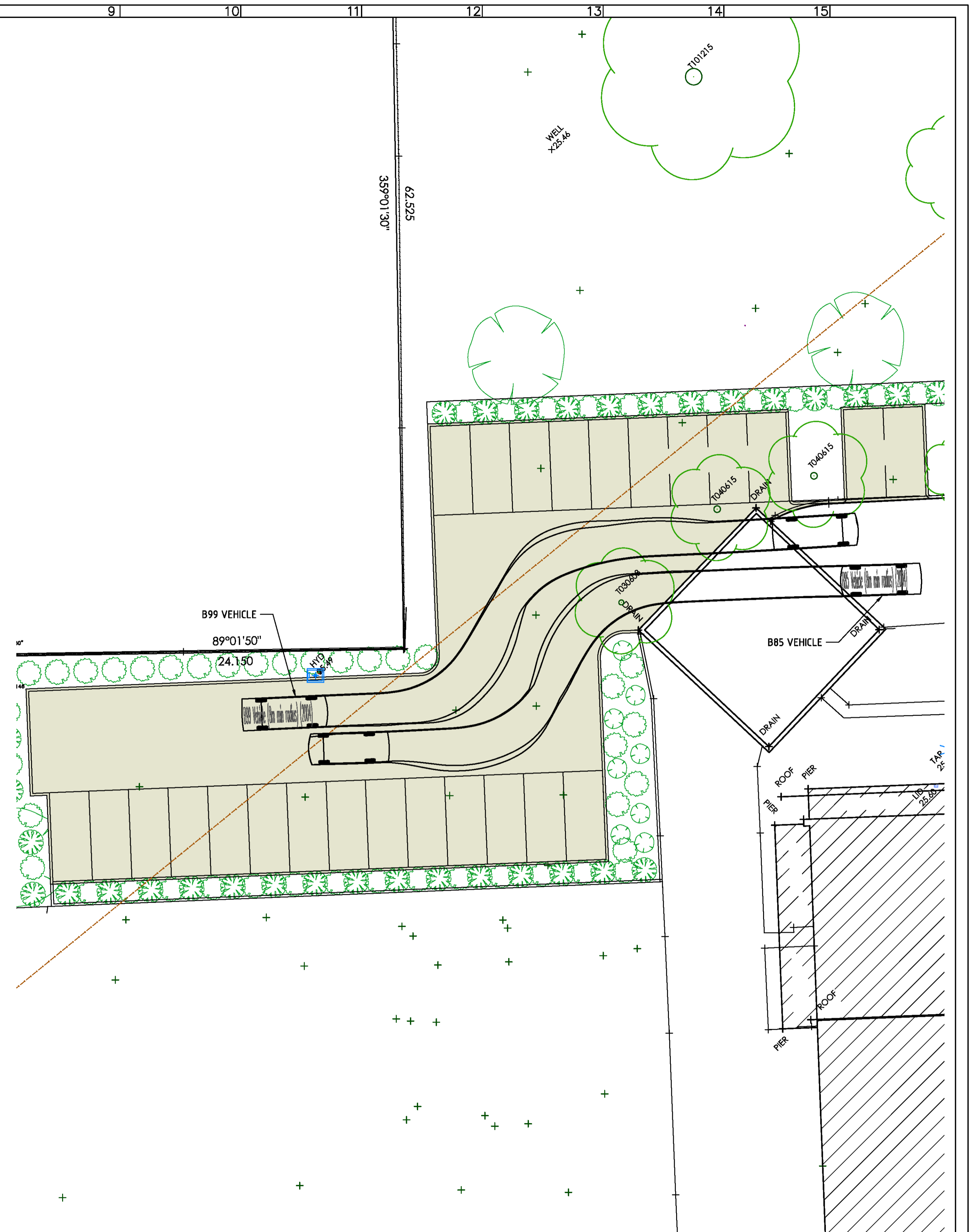
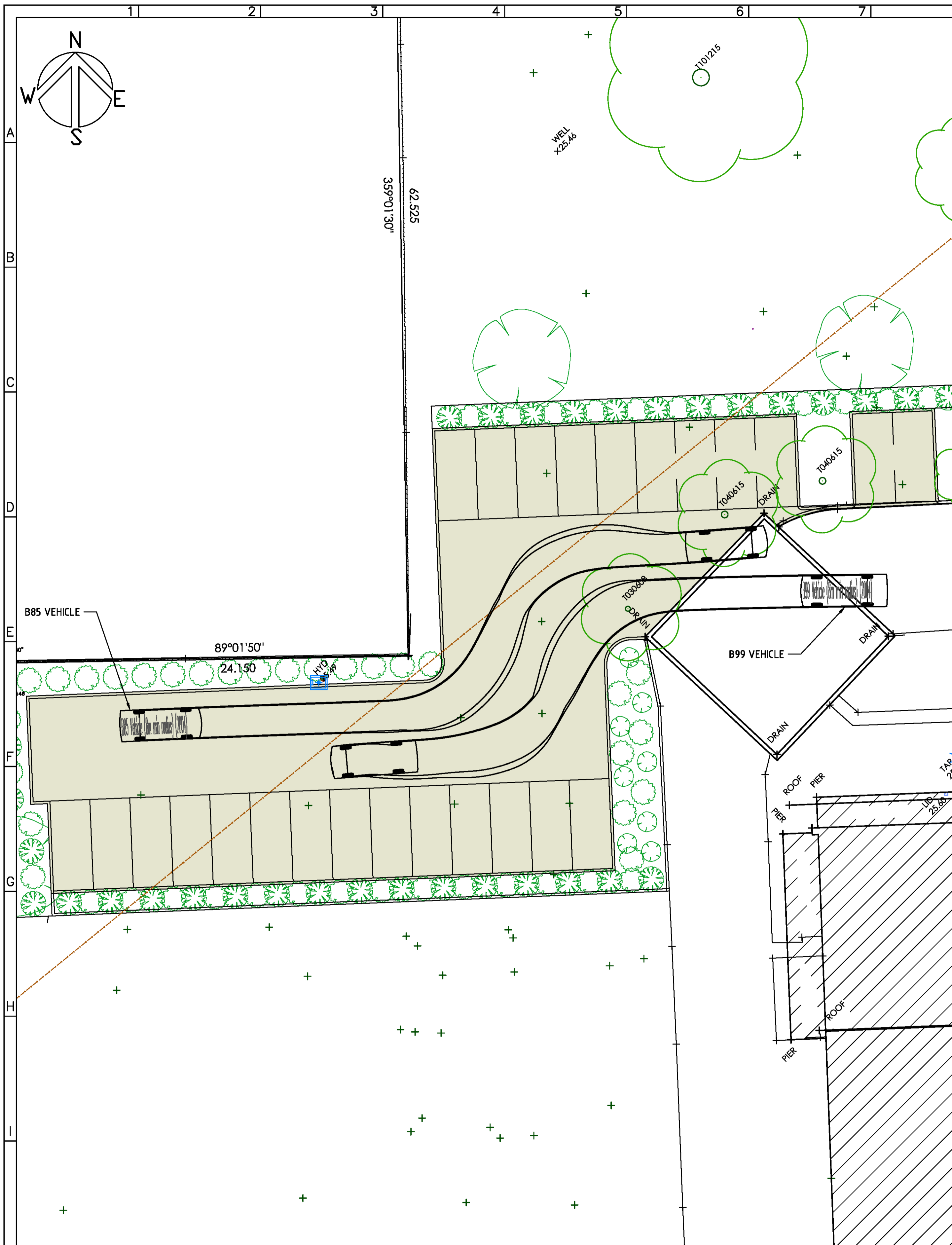
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ARCHITECTS  
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A.C.N. 074 159 488  
Suite 11, 191 Victoria Road, Gladstoneville, NSW 2111 Australia  
Tel: (02) 9879 0152 Fax: (02) 9879 0165  
Email: foran@wix.com.au

Client  
**ACO**  
134-140 OLD BATHURST ROAD, EMU PLAINS

Project Name  
**MAJOR UPGRADE PROJECT**  
134-140 OLD BATHURST ROAD, EMU PLAINS

Drawing Title  
**NEW CARPARK SETOUT**

Drawn By	Checked	Approved By	Date App.
CK	AF	AF	13/05/19
Drawing Scale	Drawing Status	Drawing Size	Rev No
1:100@A1	DA ISSUE	A1	04
Project No.	Dwg File No	Rev No	
474-N-19	SK 112	04	



PLAN 1  
SCALE 1:150 AT A1

PLAN 2  
SCALE 1:150 AT A1

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DRG. CHK'D	DESIGN HL	TURNING MANOEUVRES PLAN 1 OF 11
DES. CHK'D	DATE SEP 2019	PROJECT TITLE
	SCALE AS SHOWN	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

CLIENT	ACC POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750
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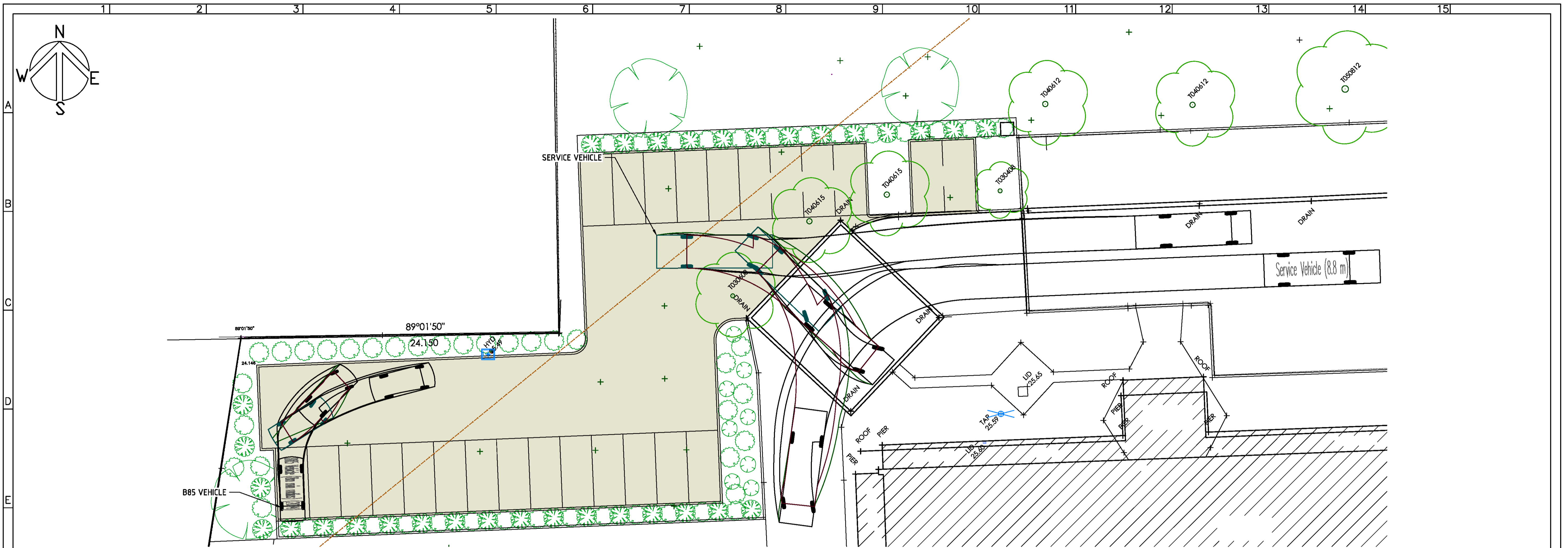
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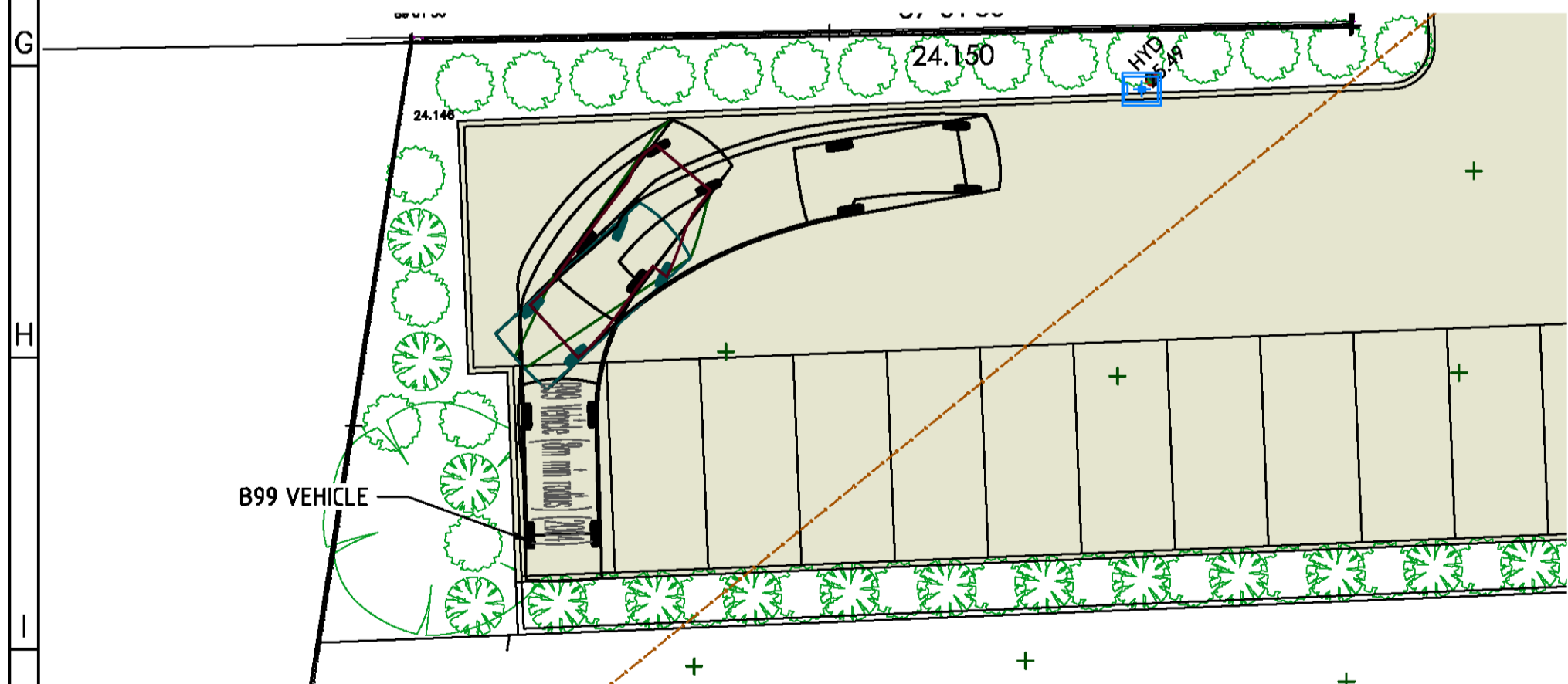
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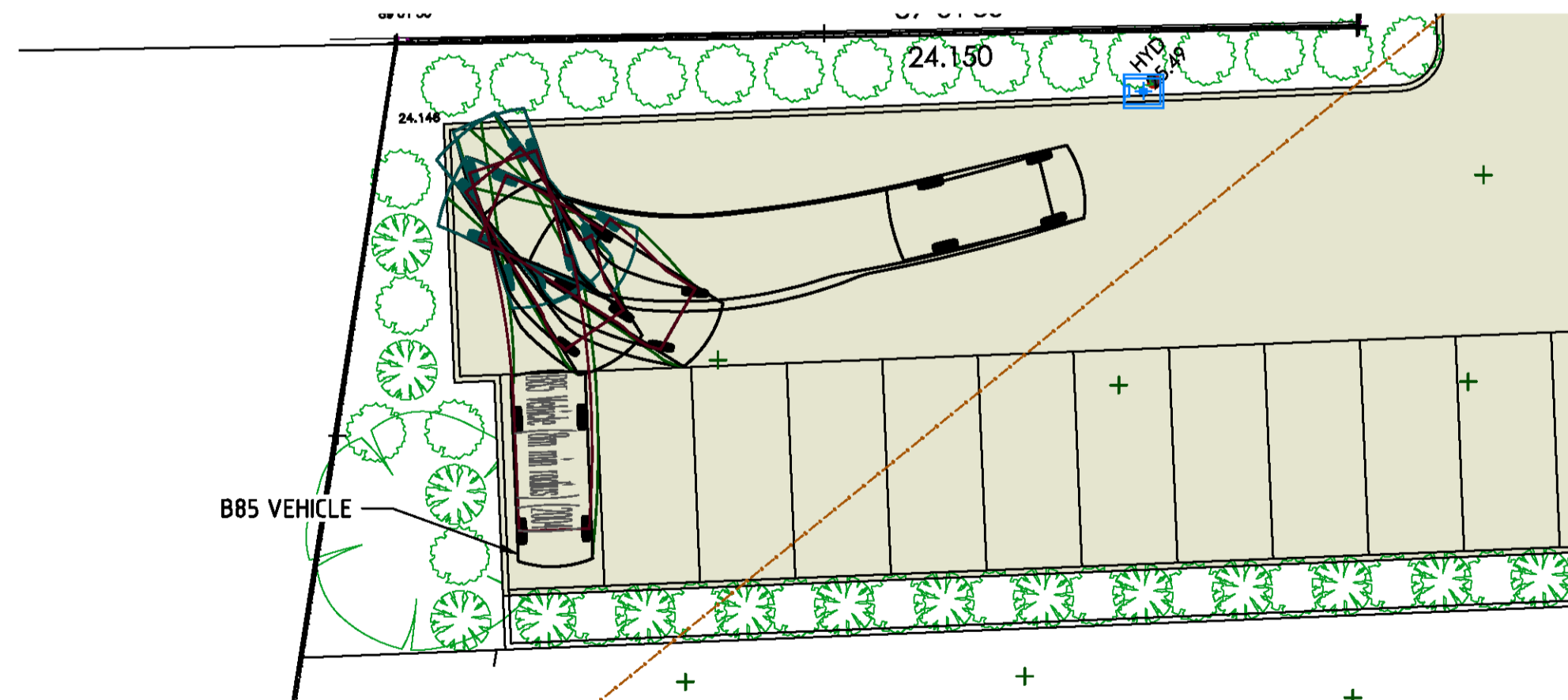
WEB: www.majcon.com.au  
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EMAIL: maj@majcon.com.au



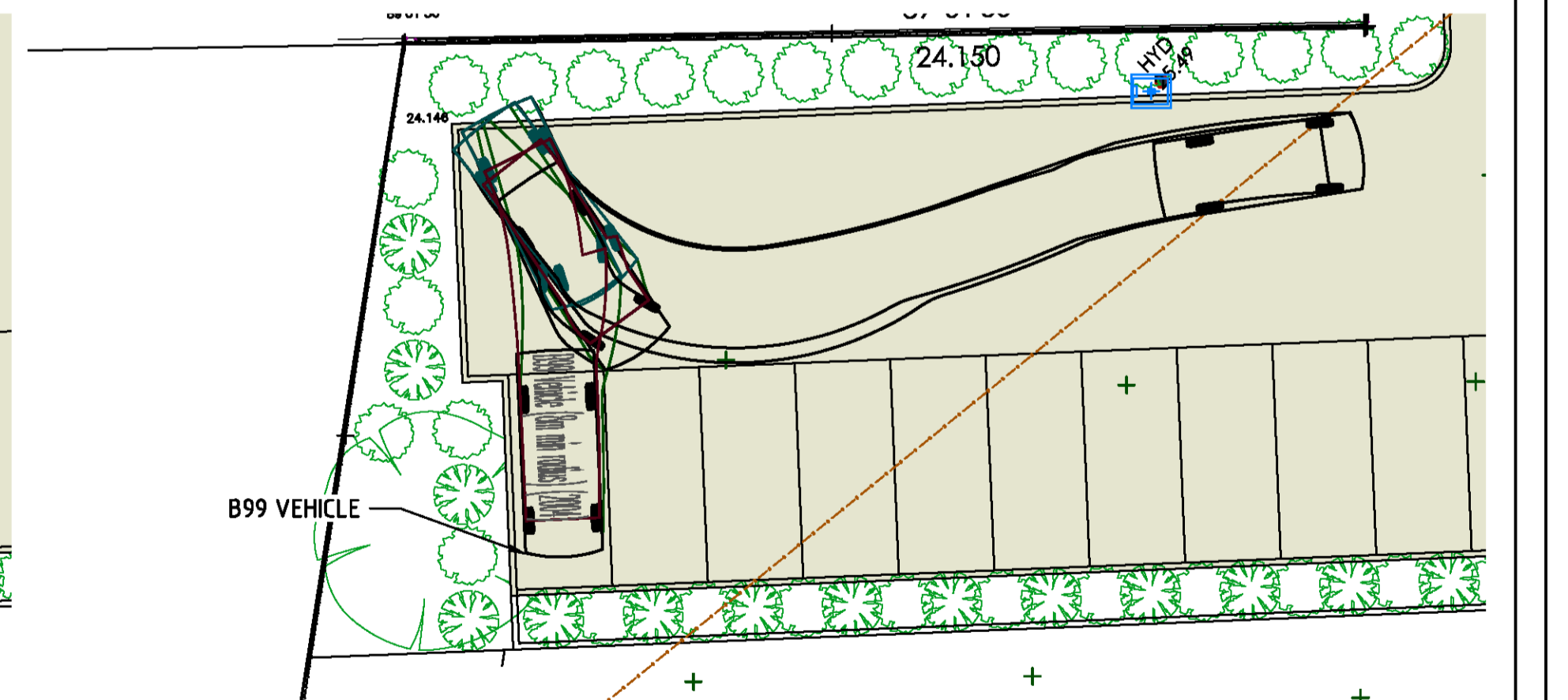
PLAN 1  
SCALE 1:150 AT A1



PLAN 2  
SCALE 1:150 AT A1



PLAN 3  
SCALE 1:150 AT A1



PLAN 4  
SCALE 1:150 AT A1

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APPROVED  
DRG. CH'KED  
DES. CH'KED

DRAWN HL  
DESIGN HL  
DATE SEP 2019  
SCALE AS SHOWN

DRAWING TITLE  
TURNING MANOEUVRES PLAN 2 OF 11

PROJECT TITLE  
PROPOSED ALTERATIONS & ADDITIONS  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

CLIENT  
ACC POLYCRETE PTY. LTD.  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

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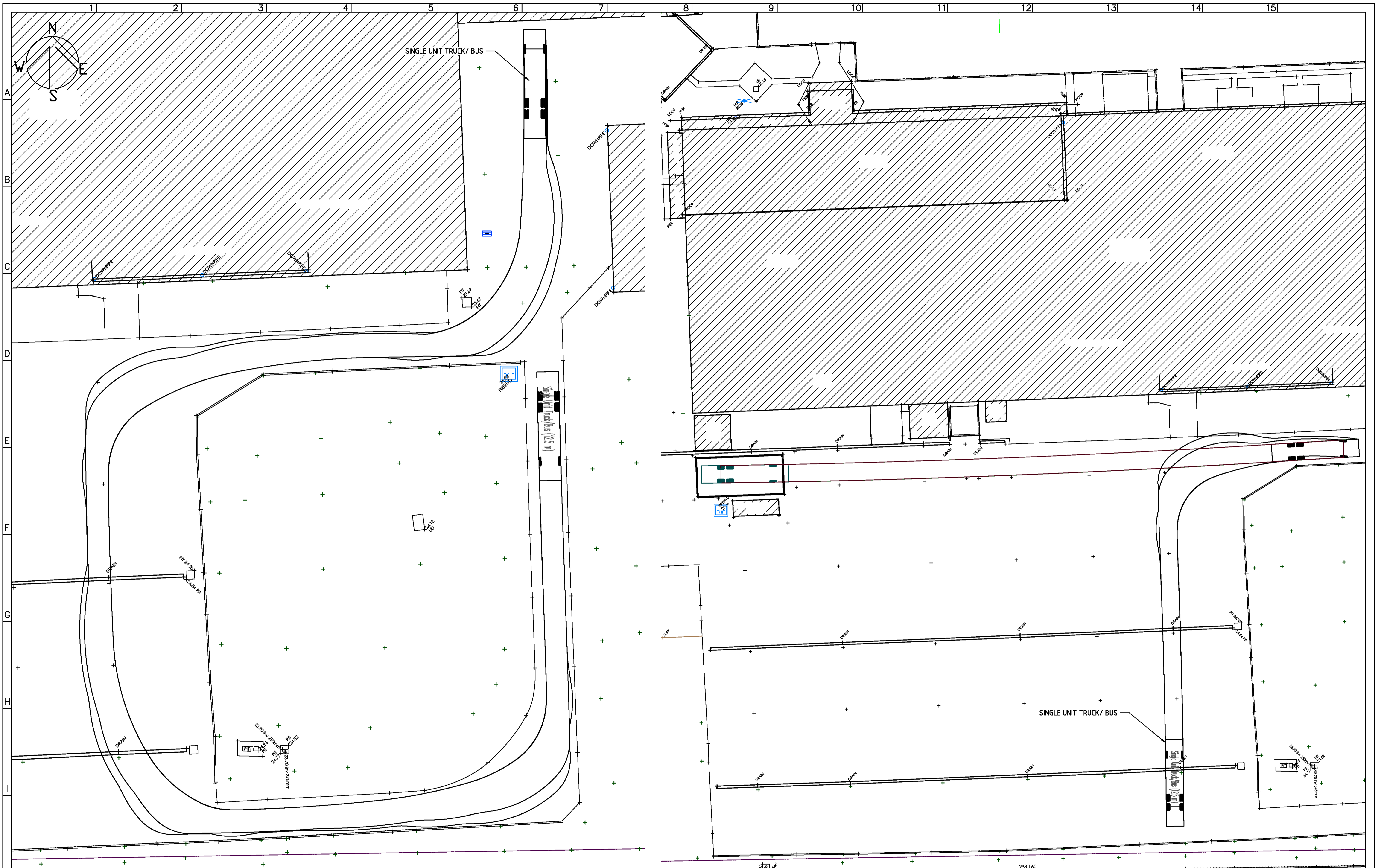
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VM2 01



PLAN 1  
SCALE 1:200 AT A1

PLAN 2  
SCALE 1:250 AT A1

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APPROVED	DRAWN HL	DRAWING TITLE
DRG. CHK'D	DESIGN HL	TURNING MANOEUVRES PLAN 3 OF 11
DES. CHK'D	DATE SEP 2019	PROJECT TITLE
	SCALE AS SHOWN	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

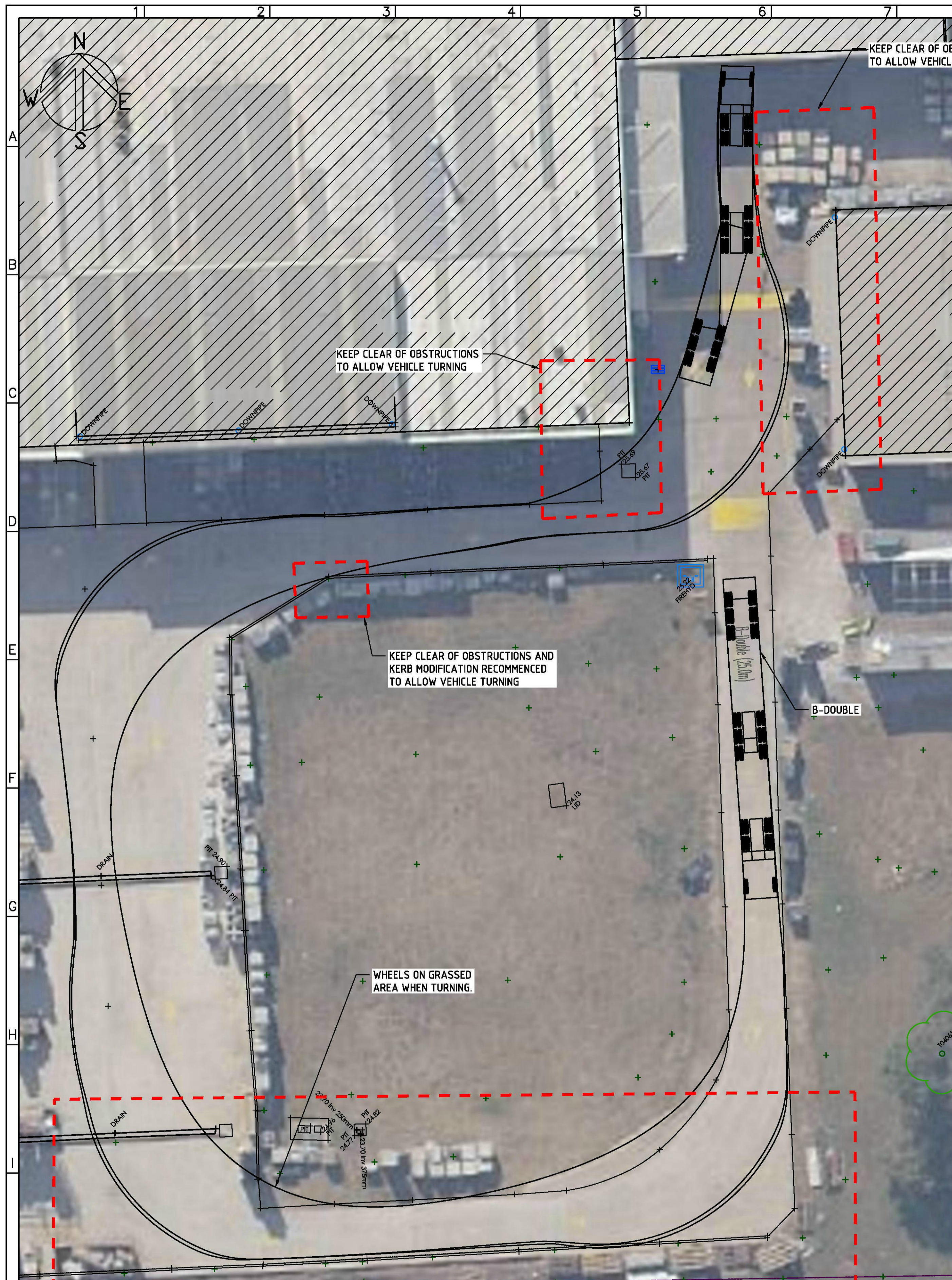
CLIENT	ACC POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750
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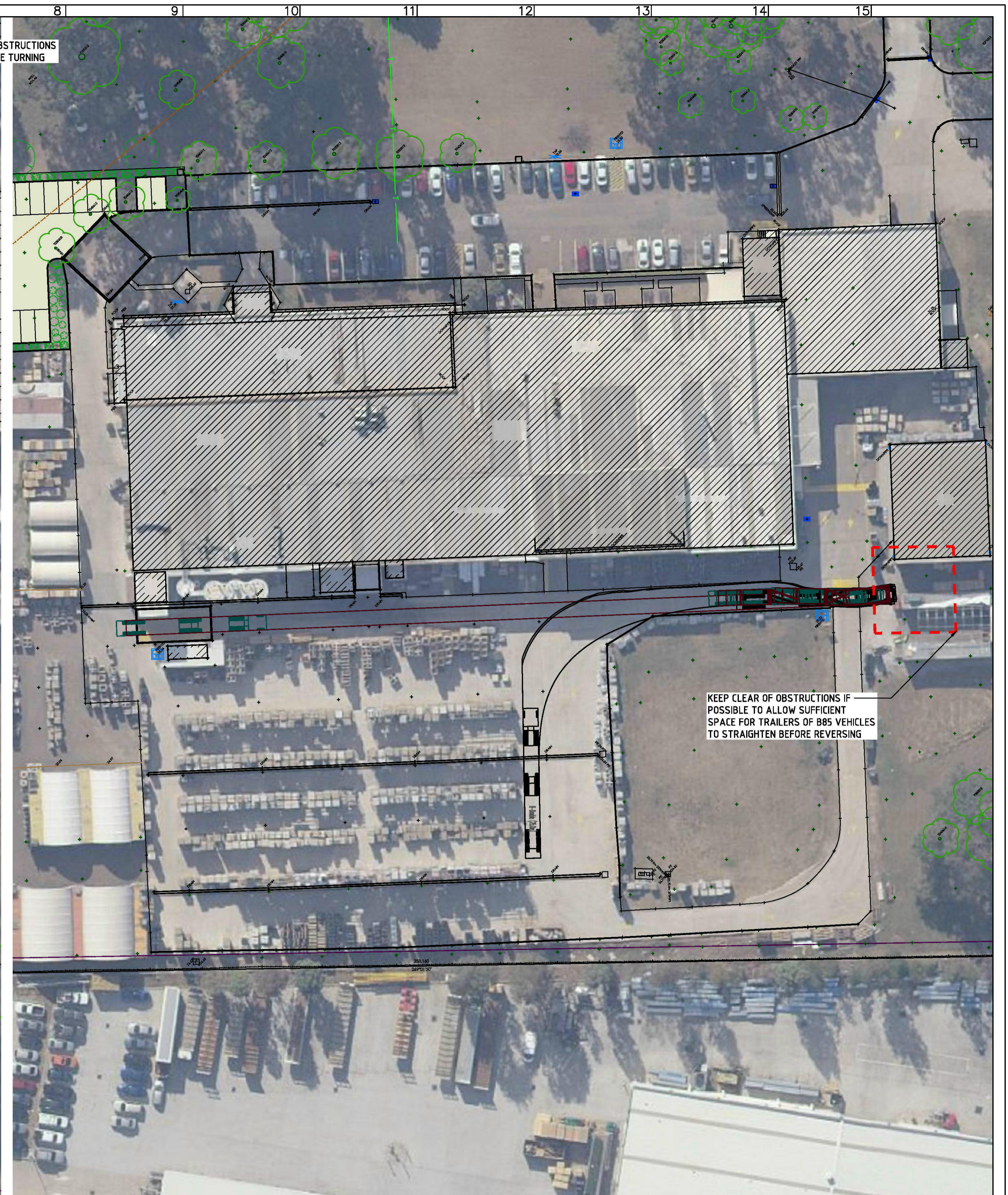
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DRAWING No.	REVISION
VM3	01



DRAWING STATUS	ISSUED FOR INFORMATION
DRAWING No.	REVISION
VM3	01



**PLAN 1**  
SCALE 1:200 AT A1  
KEEP CLEAR OF OBSTRUCTIONS TO ALLOW VEHICLE TURNING



**PLAN 2**  
SCALE 1:250 AT A1  
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DRG. CH'KED  
DES. CH'KED

DRAWN HL  
DESIGN HL  
DATE SEP 2019  
SCALE AS SHOWN

DRAWING TITLE  
**TURNING MANOEUVRES PLAN 4 OF 11**

PROJECT TITLE  
**PROPOSED ALTERATIONS & ADDITIONS  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750**

CLIENT  
**ACC POLYCRETE PTY. LTD.  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750**

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<b>VM4</b>	<b>01</b>



PLAN  
SCALE 1:200 AT A1

KEEP CLEAR OF OBSTRUCTIONS  
TO ALLOW VEHICLE TURNING

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APPROVED	DRAWN HL	DRAWING TITLE
DRG. CHYKD	DESIGN HL	TURNING MANOEUVRES PLAN 5 OF 11
DES. CHYKD	DATE SEP 2019	PROJECT TITLE
	SCALE AS SHOWN	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

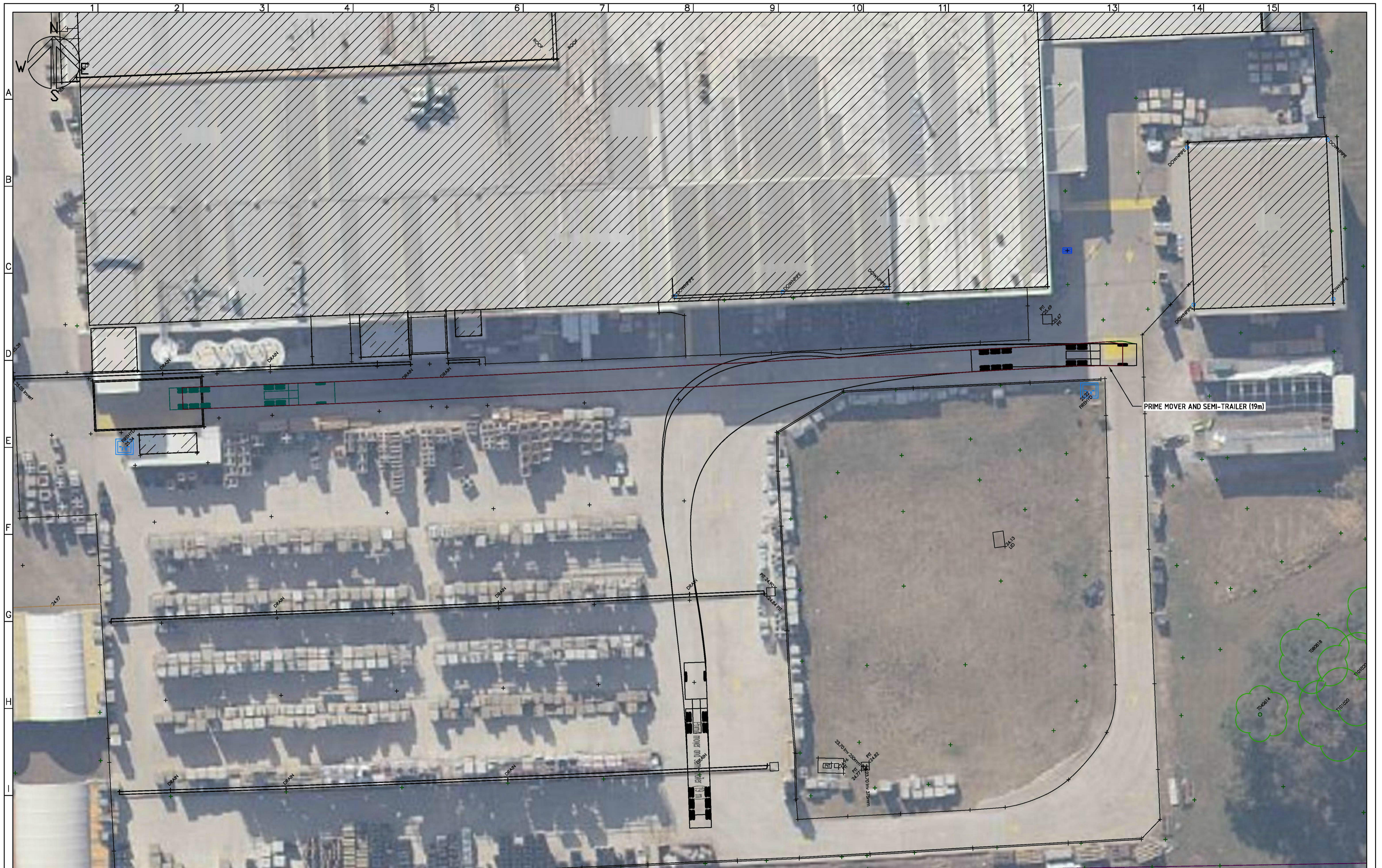
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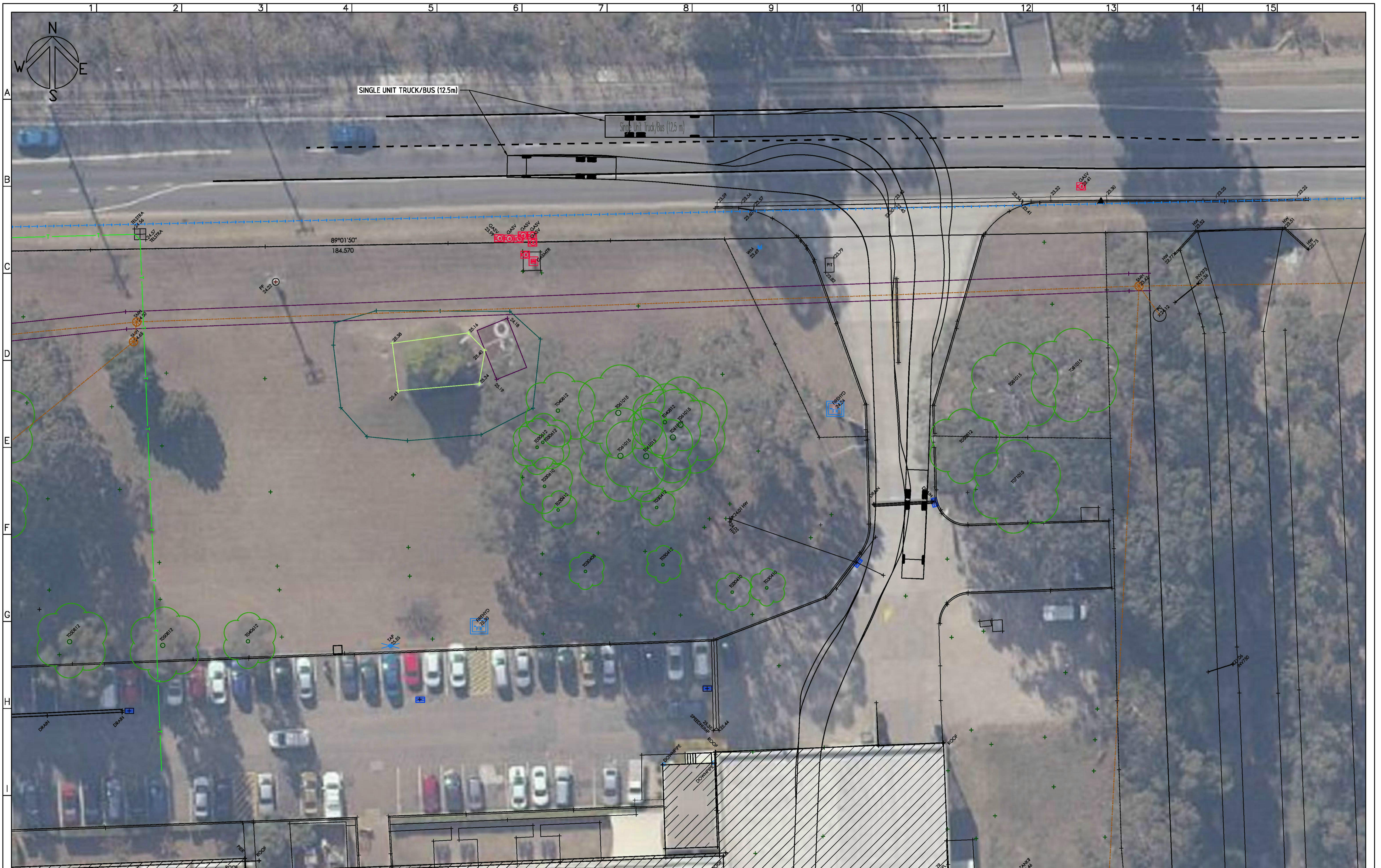
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VM5	01



PLAN  
SCALE 1:200 AT A1

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PLAN  
SCALE 1:200 AT A1

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APPROVED	DRAWN HL	DRAWING TITLE
DRG. CHK'D	DESIGN HL	TURNING MANOEUVRES PLAN 7 OF 11
DES. CHK'D	DATE SEP 2019	PROJECT TITLE
	SCALE AS SHOWN	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

CLIENT	ACQ POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750
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PLAN 1  
SCALE 1:200 AT A1

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APPROVED  
DRG. CHYKD  
DES. CHYKD

DRAWN HL  
DESIGN HL  
DATE SEP 2019  
SCALE AS SHOWN

DRAWING TITLE  
TURNING MANOEUVRES PLAN 8 OF 11

PROJECT TITLE  
PROPOSED ALTERATIONS & ADDITIONS  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

CLIENT ACC POLYCRETE PTY. LTD.  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

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VMB	01



**PLAN 1**  
SCALE 1:200 AT A1



**PLAN 2**  
SCALE 1:200 AT A1

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APPROVED	DRAWN HL	DRAWING TITLE
DRG. CHK'D	DESIGN HL	TURNING MANOEUVRES PLAN 9 OF 11
DES. CHK'D	DATE SEP 2019	PROJECT TITLE
	SCALE AS SHOWN	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

CLIENT	ACQ POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750
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AUSTRALIA

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TEL: (02) 9440 1900  
EMAIL: maj@majcon.com.au



PLAN 1  
SCALE 1:200 AT A1

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APPROVED  
DRG. CHK'D  
DES. CHK'D

DRAWN HL  
DESIGN HL  
DATE SEP 2019  
SCALE AS SHOWN

DRAWING TITLE  
TURNING MANOEUVRE PLAN 10 OF 11

PROJECT TITLE  
PROPOSED ALTERATIONS & ADDITIONS  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

CLIENT  
ACC POLYCRETE PTY. LTD.  
134-140 OLD BATHURST ROAD  
EMU PLAINS N.S.W. 2750

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SUITE 8/19-23 BRIDGE STREET  
PYMBLE, NSW 2073  
AUSTRALIA

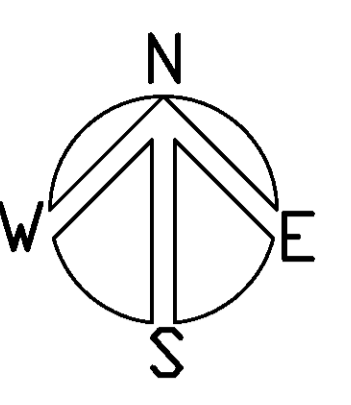
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TEL: (02) 9440 1900  
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VM10	01	



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PLAN 1  
SCALE 1:150 AT A1

PLAN 2  
SCALE 1:150 AT A1

REVISION	DESCRIPTION	DATE	APPROVED
01	ISSUED FOR INFORMATION	02 09 2019	

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APPROVED	DRAWN HL	DRAWING TITLE
DRG. CHK'D	DESIGN HL	TURNING MANOEUVRES PLAN 11 OF 11
DES. CHK'D	DATE SEP 2019	PROJECT TITLE
	SCALE AS SHOWN	PROPOSED ALTERATIONS & ADDITIONS 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750

CLIENT	ACC POLYCRETE PTY. LTD. 134-140 OLD BATHURST ROAD EMU PLAINS N.S.W. 2750
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