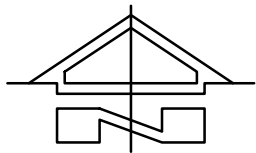


# PROPOSED SCHOOL DEVELOPMENT CNR OF BRUCE ROAD & BROADHEAD ROAD CIVIL DRAWINGS

## DRAWING LIST

Drawing No.	Drawing Title
C1.0	COVER SHEET
C1.1	GENERAL NOTES
C2.0	EXISTING SITE PLAN
C2.1	PROPOSED SITE WORKS
C3.0	EROSION & SEDIMENT CONTROL PLAN
C3.1	EROSION & SEDIMENT CONTROL DETAILS
C4.0	BULK EARTHWORKS PLAN - INTERNAL
C4.1	FINISHED LEVELS PLAN - INTERNAL
C5.0	BROADHEAD ROAD LONG SECTION SHEET 1
C5.1	BROADHEAD ROAD LONG SECTION SHEET 2
C5.2	BROADHEAD ROAD CROSS SECTIONS SHEET 1
C6.0	BRUCE ROAD LONG SECTION SHEET 1
C6.1	BRUCE ROAD LONG SECTION SHEET 2
C6.2	BRUCE ROAD CROSS SECTIONS SHEET 1
C7.0	FLOOD MITIGATION WORKS
C7.1	STORMWATER PLAN
C7.2	BIO-FILTRATION SWALE - DETAILS
C7.3	LEVEE BANK
C7.4	PIT AND PIPE SCHEDULE
C8.0	SEWER PLAN
C10.0	VEHICLE SIMULATION PLAN
C10.1	INTERSECTION UPGRADE PLAN - SHEET 1
C10.2	INTERSECTION UPGRADE PLAN - SHEET 2
C11.0	PAVEMENT PLAN - INTERNAL
C12.0	BRUCE ROAD CULVERT DETAILS



LOCATION PLAN  
SCALE 1:2000 AT A1

NOTE:  
THIS IS A PLANNING DRAWING ONLY, FOR THE PURPOSE OF  
CONCEPTUAL DESIGN AND/OR PLANNING. FURTHER  
DETAILED ENGINEERING DESIGN INCLUDING SPECIFICATIONS,  
SIZING AND STORMWATER INVERTS TO BE PROVIDED PRIOR  
TO BUILDING RULES ASSESSMENT AND CONSTRUCTION.

20.0m 0.0 40.0 80.0 120.0 160.0 200.0m  
SCALE 1:2000 AT A1 SHEET | 1:4000 AT A3 SHEET

ISSUED FOR 80% DOCUMENTATION	22.09.20	H	J.L.D.	ARCHITECT
ISSUED FOR INFORMATION	21.04.20	G	J.L.D.	
ISSUED FOR INFORMATION	10.03.20	F	J.L.D.	
ISSUED FOR INFORMATION	25.11.19	E	J.L.D.	
AMENDMENTS	DATE	ISSUE	BY	

ALLEANZA  
ARCHITECTURE

CLIENT  
TSA MANAGEMENT  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
PROPOSED SCHOOL  
LOT 40 BROADHEAD ROAD  
MUDGEE, NSW, 2850

DESIGNED J.L.D.	DRAWN J.O.M.	DATE MAY '19	SIZE A1	CAD REF TX13843.00 - C1.0
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ADELAIDE | BAROSSA | DARWIN | MUDGEE | PARRAMATTA | SYDNEY

DRAWING TITLE  
COVER SHEET

PROJECT No.  
TX13843.00 - C1.0

DRAWING No.  
H

ISSUE  
H

NOT FOR CONSTRUCTION



GENERAL NOTES

GENERAL

- CG1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- CG2 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
- CG3 ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- CG4 UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETERS.
- CG5 ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH ACCEPTABLE SAFETY STANDARDS & APPROPRIATE SAFETY SIGNS SHALL BE INSTALLED AT ALL TIMES DURING THE PROGRESS OF THE JOB.

SURVEY

- SU1 THE EXISTING SITE CONDITIONS SHOWN ON THE DRAWINGS HAVE BEEN INVESTIGATED BY OTHERS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.
- SU2 THE FOLLOWING ENGINEERING SURVEY SHALL NOT BE TAKEN AS A CADASTRAL OR BOUNDARY IDENTIFICATION SURVEY. BOUNDARY DATA SHALL BE TAKEN AS A GUIDE ONLY UNLESS NOTED OTHERWISE.
- SU3 SHOULD DISCREPANCIES BE FOUND BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA THE CONTRACTOR SHALL NOTIFY TRIAXIAL CONSULTING PRIOR TO COMMENCEMENT OF THE WORKS. THE CONTRACTOR SHALL ACCEPT ALL RESPONSIBILITY FOR ERRORS MADE DURING CONSTRUCTION WHERE SURVEY DISCREPANCIES WERE NOT RELAYED AND RESOLVED BY TRIAXIAL CONSULTING PRIOR TO COMMENCEMENT OF THE WORKS.
- SU4 EXISTING SURVEY BY:  
BARNSON PTY LTD  
REFERENCE NUMBER 30760

EXCAVATION

- EX1 REFER TO REPORT ON GEOTECHNICAL STABILITY ASSESSMENT FOR INFORMATION PERTAINING TO EXISTING SITE STABILITY, EXCAVATION AND GEOTECHNICAL ISSUES.
- EX2 ALL SITE EXCAVATION TO BE PERFORMED IN ACCORDANCE WITH ITEMS NOTED IN THE ABOVE LISTED REPORT.
- EX3 THE EARTHWORKS CONTRACTOR IS TO CONTACT OR MEET WITH THE GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF ANY EXCAVATION TO DETERMINE APPROPRIATE TECHNIQUES AND HOLD POINTS.
- EX4 TEMPORARY BATTER CUT TO ROCK TO BE FORMED AT NO STEEPER THAN 1 V : 1 H. PERMANENT BATTER TO BE CONFIRMED ON SITE IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER.

EXISTING UNDERGROUND SERVICES

- EU1 THE EXISTING UNDERGROUND SERVICES INDICATED ON THESE DRAWINGS HAVE BEEN OBTAINED FROM SURVEY AND SERVICE AUTHORITY INFORMATION. THE SERVICES INFORMATION SHOWN ARE THOSE OF KNOWN SERVICES ONLY. THE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND MAY NOT BE 'AS CONSTRUCTED' OR ACCURATE. THE PRESENCE OR ABSENCE OF SERVICES SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- EU2 THE CONTRACTOR SHALL TAKE ALL DUE CARE WHEN EXCAVATING ON SITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
- EU3 THE CONTRACTOR SHALL CONTACT ALL RELEVANT SERVICE AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS.
- EU4 THE CONTRACTOR SHALL UNDERTAKE A THOROUGH SERVICES SEARCH PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS. THE RESULTS OF SERVICES SEARCHES SHALL BE RECORDED AND KEPT ON SITE AT ALL TIMES.

SITE PREPARATION

- SP1 REFER TO GEOTECHNICAL REPORT FOR EXISTING SOIL CONDITIONS.
- SP2 ALL ORGANIC & DELETERIOUS MATERIAL TO BE COMPLETELY CLEARED FROM SITE WORKS AREA.
- SP3 PRIOR TO THE COMMENCEMENT OF ANY CIVIL OR STRUCTURAL CONSTRUCTION THE ENTIRE SITE AREA IS TO BE COMPACTED AND TESTED IN ACCORDANCE WITH AS1289.5.1.1 OR 5.1.2 - 1993 TO PRODUCE THE FOLLOWING: -98.0% STANDARD COMPACTION AT THE SURFACE AND AT 200MM BELOW SURFACE LEVEL. FREQUENCY OF FIELD DENSITY TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3798 - 2007 TABLE 8.1 TESTING SHALL BE EVENLY SPACED OVER THE ENTIRE SITE, AND AT RANDOM LOCATIONS. TEST RESULTS SHALL BE FORWARDED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORKS.
- SP4 PROOF ROLL EXPOSED SUBGRADE PRIOR TO COMMENCEMENT OF CIVIL AND STRUCTURAL CONSTRUCTION. CONDUCTED UNDER GEOTECHNICAL SUPERVISION.
- SP5 BOX OUT ANY SOFT AREAS AND FILL AND COMPACT WITH IMPORTED FILL.
- SP6 PLACE IMPORTED FILL IN MAXIMUM 200 LOOSE LAYERS & COMPACT TO 98%STD >1m BELOW B.E.L.) AND 100%STD (<1m BELOW B.E.L.) AND TO WITHIN +/-2% OF OMC.
- SP7 IMPORTED FILL IS TO BE CRUSHED SANDSTONE, RIPPED SHALE OR APPROVED ALTERNATIVE, WITH A MINIMUM CBR OF 30%, PI 8% AND A MAX PARTICLE SIZE OF 75mm.

SITEWORKS

- SW1 THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORKS. ANY DISCREPANCIES SHALL BE REPORTED TO TRIAXIAL CONSULTING FOR FURTHER INSTRUCTION.
- SW2 ALL CONNECTIONS WITH EXISTING WORKS SHALL BE MADE SMOOTH.
- SW3 ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO ACHIEVE A DENSITY EQUIVALENT TO THE ADJACENT MATERIAL.
- SW4 ALL SERVICE TRENCHES SHALL BE BACKFILLED WITH SAND TO A LEVEL 300mm ABOVE THE PIPE. WHERE SERVICE TRENCHES ARE CONSTRUCTED UNDER VEHICULAR PAVEMENTS, BACKFILL THE REMAINDER OF THE TRENCH (TO UNDERSIDE OF PAVEMENT) WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 150mm DEPTH. BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 (CURRENT EDITION) OR A DENSITY INDEX OF NOT LESS THAN 75.
- SW5 PROVIDE A 10mm WIDE EXPANSION JOINT BETWEEN ALL BUILDINGS AND CONCRETE OR UNIT PAVEMENTS.
- SW6 ALL BASE-COURSE MATERIAL SHALL BE MINIMUM 95% MODIFIED DRY DENSITY (UNO) IN ACCORDANCE WITH AS 1289 5.2.1 (CURRENT EDITION).

SEDIMENT AND EROSION CONTROL

- SE1 CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION" (2004) (THE BLUE BOOK).
- SE2 DISTURBANCE SHALL BE KEPT TO A MINIMUM AND WITHIN THE LIMITS OF THE CONSTRUCTION SITE.
- SE3 ADDITIONAL CONTROLS SHALL BE INSTALLED AS REQUIRED AND IN ACCORDANCE WITH 'THE BLUE BOOK'.
- SE4 ALL INSTALLED CONTROLS SHALL BE INSPECTED AT LEAST WEEKLY AND IMMEDIATELY FOLLOWING A RAIN EVENT. MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED.
- SE5 COMPLETED AREAS SHALL BE PROGRESSIVELY VEGETATED.
- SE6 CONTROL DEVICES, AS DETAILED, SHALL BE INSTALLED TO STORMWATER PITS IMMEDIATELY FOLLOWING THEIR CONSTRUCTION.

STORMWATER DRAINAGE

- SD1 PIPES UP TO 300mm DIAMETER SHALL BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS.
- SD2 ALL "INTERNAL WORKS" WITHIN PROPERTY BOUNDARIES SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZS 3500.3 (CURRENT EDITION).
- SD3 ALL STORMWATER PIPES SHALL BE PROVIDED WITH MINIMUM PIPE COVER TO COMPLY WITH THE REQUIREMENTS OF AS/NZS 3500.3 (CURRENT EDITION).
- SD4 INSTALLATION OF ALL BURIED CONCRETE STORMWATER PIPES SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZS 3725 (CURRENT EDITION) DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES.
- SD5 ENLARGERS, CONNECTORS AND JUNCTIONS SHALL BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300mm DIAMETER.
- SD6 ALL STORMWATER DRAINAGE LINES SHALL HAVE A MINIMUM FALL OF 1% UNLESS NOTED OTHERWISE ON THE DRAWINGS. CARE SHALL BE TAKEN WITH SETTING LEVELS OF STORMWATER DRAINAGE LINES. GRADES SHOWN ON THE DRAWINGS SHALL NOT BE REDUCED WITHOUT THE WRITTEN CONSENT OF TRIAXIAL CONSULTING.
- SD7 GRATES AND COVERS SHALL COMPLY WITH THE REQUIREMENTS OF AS 3996 (CURRENT EDITION).
- SD8 AT ALL TIMES DURING THE CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE DOCUMENTED AND EXECUTED TO MITIGATE THE RISK OF PERSONAL INJURY AS A RESULT OF FALLS INTO PITS.
- SD9 ALL EXISTING STORMWATER LOCATIONS, INCLUDING INVERTS, TO BE CONFIRMED BY THE BUILDER/CONTRACTOR PRIOR TO THE COMMENCEMENT OF CIVIL WORKS ON SITE.
- SD10 ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN SHALL BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDANT/ENGINEER FOR FURTHER DIRECTIONS.

CONCRETE

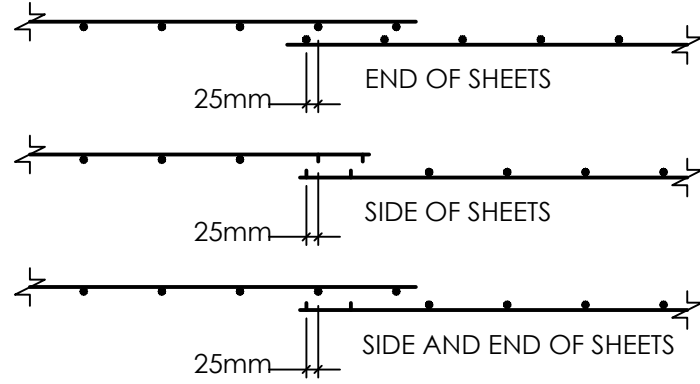
- C1 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- C2 READYMIX CONCRETE SUPPLY SHALL COMPLY WITH AS1379.
- C3 CONCRETE QUALITY ALL THE REQUIREMENTS OF THE ACSE SPECIFICATION DOCUMENT 1 (EDITION 6) SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.
- | ELEMENT          | STRENGTH GRADE (MPa) | SLUMP AGG SIZE | MAX. TYPE | CEMENT |
|------------------|----------------------|----------------|-----------|--------|
| (REFER TO PLANS) | -                    | -              | -         | -      |
- C4 PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE AS1379.
- C5 NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
- C6 CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE.
- | EXPOSURE CLASS, TO AS3600: | CONCRETE GRADE: GROUND: | CAST AGAINST EXPOSED: | CAST IN FORMS & FORMS NOT EXPOSED: |
|----------------------------|-------------------------|-----------------------|------------------------------------|
| A1 & A2                    | 25 50mm                 | 30mm                  | 20mm(A1)                           |
| B1                         | 32 60mm                 | 40mm                  | -                                  |
| B2                         | 40 65mm                 | 45mm                  | -                                  |
- COVER REQUIREMENTS MAY NEED TO BE INCREASED TO IT FIRE RATING. EXPOSURE CLASSIFICATION SHALL BE AS INDICATED ON THE DRAWING.
- DURABILITY REQUIREMENTS FOR CONCRETE.
- | EXPOSURE CLASS, TO AS3600: | MINIMUM CEMENT CONTENT: | MAXIMUM W/C RATIO: |
|----------------------------|-------------------------|--------------------|
| A1 & A2                    | -                       | 0.56               |
| B1                         | 320                     | 0.56               |
| B2                         | 390                     | 0.46               |
| C                          | 450                     | 0.40               |
- C7 ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT 1m CENTRES MAXIMUM BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS. USE PLASTIC CHAIRS IN EXPOSURE CONDITION GREATER THAN B1.
- C8 CONCRETE SIZES DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
- C9 DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- C10 REFER TO ARCHITECT'S DETAILS, FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC., MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.
- C11 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- C12 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- C13 ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- C14 USE ALIPHATIC ALCOHOLS SPRAYED OVER THE SURFACE PRIOR TO AND AFTER FINISHING TO REDUCE RATE OF EVAPORATION FROM THE SURFACE AND HELP CONTROL PLASTIC SHRINKAGE CRACKING. NOTE THAT THE USE OF ALIPHATIC ALCOHOLS IS NOT A SUBSTITUTE FOR CURING.
- C15 COMMENCE CURING OPERATIONS PROMPTLY AFTER SURFACE FINISHING IS COMPLETE. CURING COMPOUNDS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND ARE TO BE CHECKED FOR COMPATIBILITY WITH PROPOSED FLOOR FINISHES. SOME COMPOUNDS MAY REQUIRE REMOVAL FOR GLUED DOWN FLOOR COVERINGS OR WET CURING AS DESCRIBED BELOW.
- CONCRETE IS TO BE CURED BY KEEPING THE SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTING THE LOSS OF MOISTURE FOR A FURTHER 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT.

CONCRETE (CONTINUED)

- C16 PROPPING WHICH SUPPORTS CONSTRUCTION OVER IS TO BE LEFT IN PLACE AS REQUIRED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.
- C17 THE ENGINEER SHALL BE GIVEN 24 HOURS NOTICE FOR REINFORCEMENT INSPECTIONS AND CONCRETE SHALL NOT BE DELIVERED UNTIL ENGINEERS APPROVAL IS OBTAINED.
- C18 CONDUITS, PIPES ETC. SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS OF THE CONDUIT, PIPES ETC. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT.
- C19 REINFORCEMENT SYMBOLS:  
N DENOTES DEFORMED GRADE 500 NORMAL DUCTILITY CLASS BARS TO AS4671.  
R DENOTES PLAIN ROUND GRADE 250 NORMAL DUCTILITY CLASS BARS TO AS4671.  
RL DENOTES RECTANGULAR MESH GRADE 500 LOW DUCTILITY CLASS TO AS4671.  
SL DENOTES SQUARE MESH GRADE 500 LOW DUCTILITY CLASS TO AS4671.  
TM DENOTES TRENCH MESH GRADE 500 LOW DUCTILITY CLASS TO AS4671.  
THE MEMBER IMMEDIATELY FOLLOWING THE BAR GRADE SYMBOL REPRESENTS THE NOMINAL BAR DIAMETER IN MILLIMETERS. THE FIGURES FOLLOWING THE FABRIC SYMBOL SL & RL IS THE REFERENCE NUMBER FOR FABRIC TO AS4671.
- C20 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- C21 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.
- C22 WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAPPED 500mm WITH MAIN BARS.
- C23 STANDARD LAP AND COG LENGTHS UNLESS NOTED OTHERWISE ON DRAWINGS:

BAR DIAMETER	MIN LAP LENGTH (mm)	MIN COG LENGTH (mm)
N12	500	180
N16	750	210
N20	1000	260
N24	1375	310
N28	1560	360
N32	1810	400

C24 MINIMUM MESH LAPS:



- C25 A 0.2mm POLYETHYLENE MEMBRANE SHALL BE CONTINUOUS UNDER SLAB LAPPED 200mm MIN. WHERE REQUIRED AND TAPED AT ALL SERVICE PENETRATIONS, LAPS AND PUNCTURES. THE MEMBRANE IS TO EXTEND UNDER AND TO THE SIDES OF SLABS, BEAMS AND THICKENINGS

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2m 0 5 10 15 20m  
SCALE 1:200 AT A1 SHEET | 1:400 AT A3 SHEET

DRAWING TITLE  
GENERAL NOTES

ISSUED FOR INFORMATION	10.03.20	D	JLD.	ARCHITECT
ISSUED FOR INFORMATION	25.11.19	C	JLD.	
ISSUED FOR INFORMATION	04.07.19	B	JLD.	
ISSUED FOR INFORMATION	24.05.19	A	JLD.	
AMENDMENTS	DATE	ISSUE	BY	



CLIENT  
TSA MANAGEMENT  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
PROPOSED SCHOOL  
LOT 40 BROADHEAD ROAD  
MUDGEES, NSW, 2850

DESIGNED	DRAWN	DATE	SIZE	CAD REF
JLD.	JO.M.	MAY '19	A1	TX13843.00 - C01



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CONSULTING

COMPLEX PROBLEMS  
RESOLVED SIMPLY

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ADELAIDE | BAROSSA | DARWIN | MUDGEES | PARRAMATTA | SYDNEY

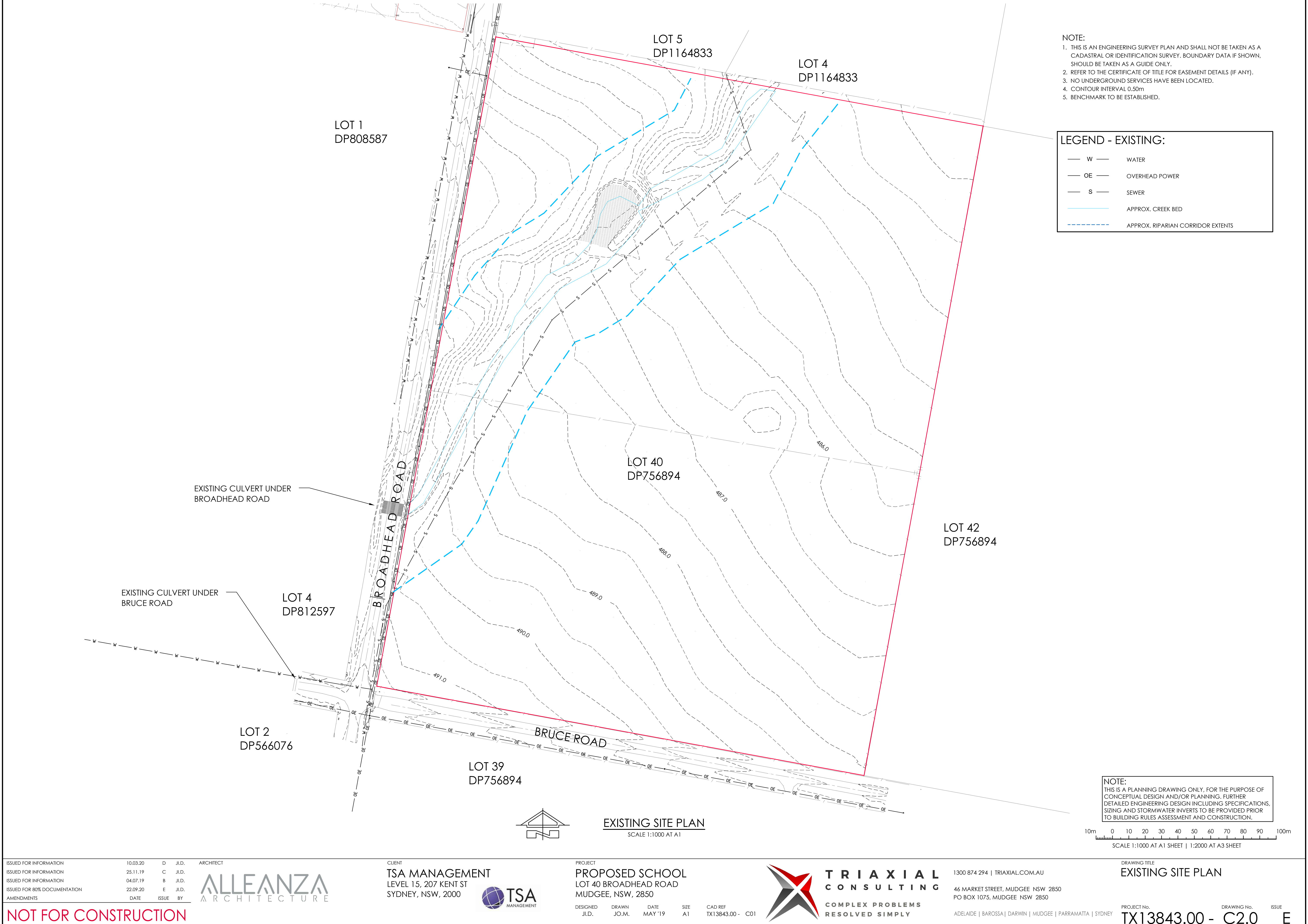
PROJECT No.  
TX13843.00 - C1.1

DRAWING No.  
C1.1

ISSUE  
D

NOT FOR CONSTRUCTION



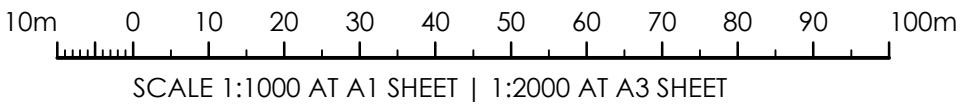


NOTE:  
1. THIS IS AN ENGINEERING SURVEY PLAN AND SHALL NOT BE TAKEN AS A CADASTRAL OR IDENTIFICATION SURVEY. BOUNDARY DATA IF SHOWN, SHOULD BE TAKEN AS A GUIDE ONLY.  
2. REFER TO THE CERTIFICATE OF TITLE FOR EASEMENT DETAILS (IF ANY).  
3. NO UNDERGROUND SERVICES HAVE BEEN LOCATED.  
4. CONTOUR INTERVAL 0.50m  
5. BENCHMARK TO BE ESTABLISHED.

LEGEND - EXISTING:

— W —	WATER
— OE —	OVERHEAD POWER
— S —	SEWER
—	APPROX. CREEK BED
- - -	APPROX. RIPARIAN CORRIDOR EXTENTS

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ISSUED FOR INFORMATION	10.03.20	D	J.L.D.
ISSUED FOR INFORMATION	25.11.19	C	J.L.D.
ISSUED FOR INFORMATION	04.07.19	B	J.L.D.
ISSUED FOR 80% DOCUMENTATION	22.09.20	E	J.L.D.
AMENDMENTS	DATE	ISSUE	BY

ARCHITECT

**ALLEANZA**  
ARCHITECTURE

CLIENT

**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000

**TSA**  
MANAGEMENT

PROJECT

**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEE, NSW, 2850

DESIGNED	DRAWN	DATE	SIZE	CAD REF
J.L.D.	JO.M.	MAY '19	A1	TX13843.00 - C01

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COMPLEX PROBLEMS  
RESOLVED SIMPLY

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DRAWING TITLE

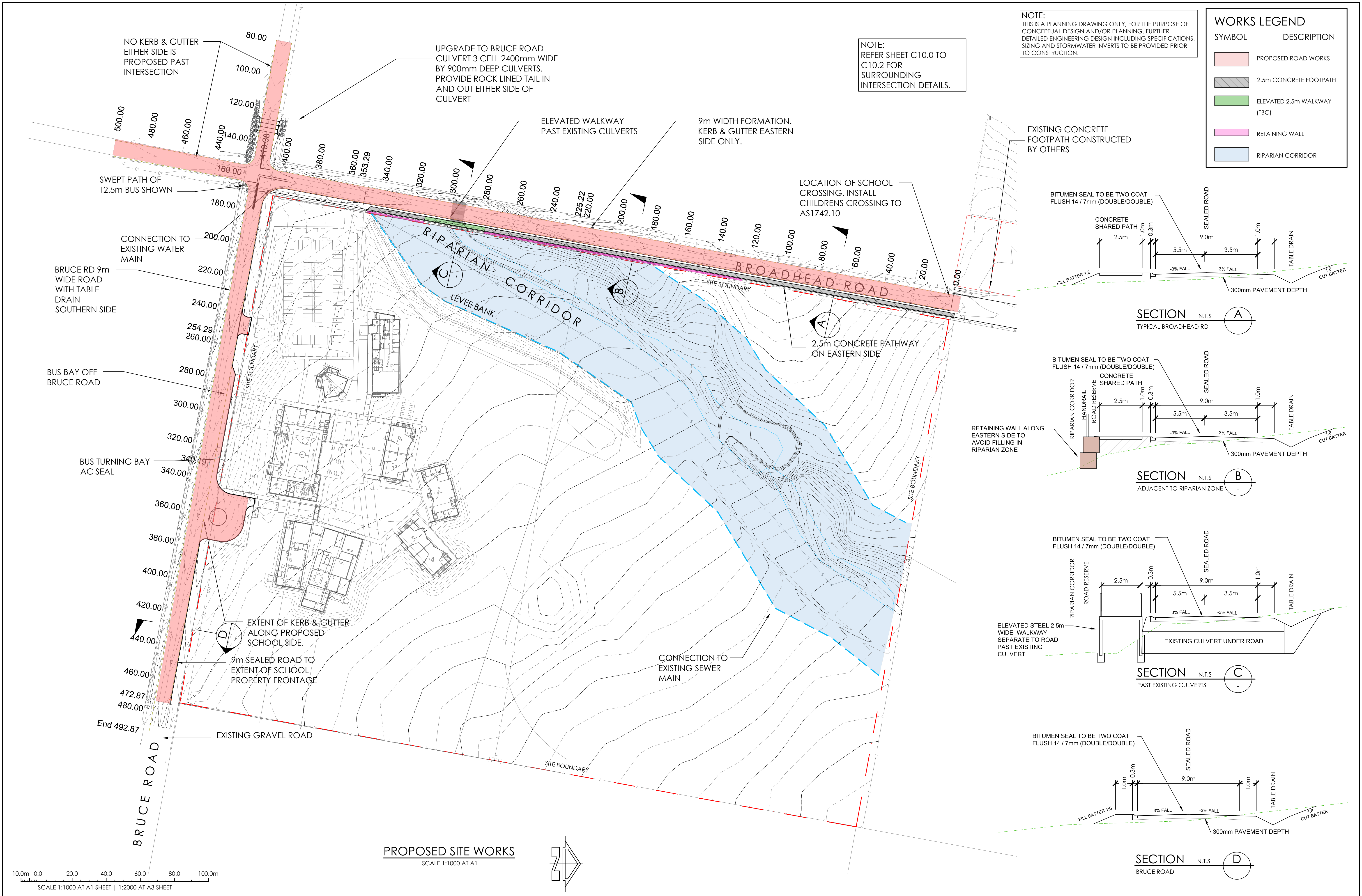
**EXISTING SITE PLAN**

ADELAIDE | BAROSSA | DARWIN | MUDGEE | PARRAMATTA | SYDNEY

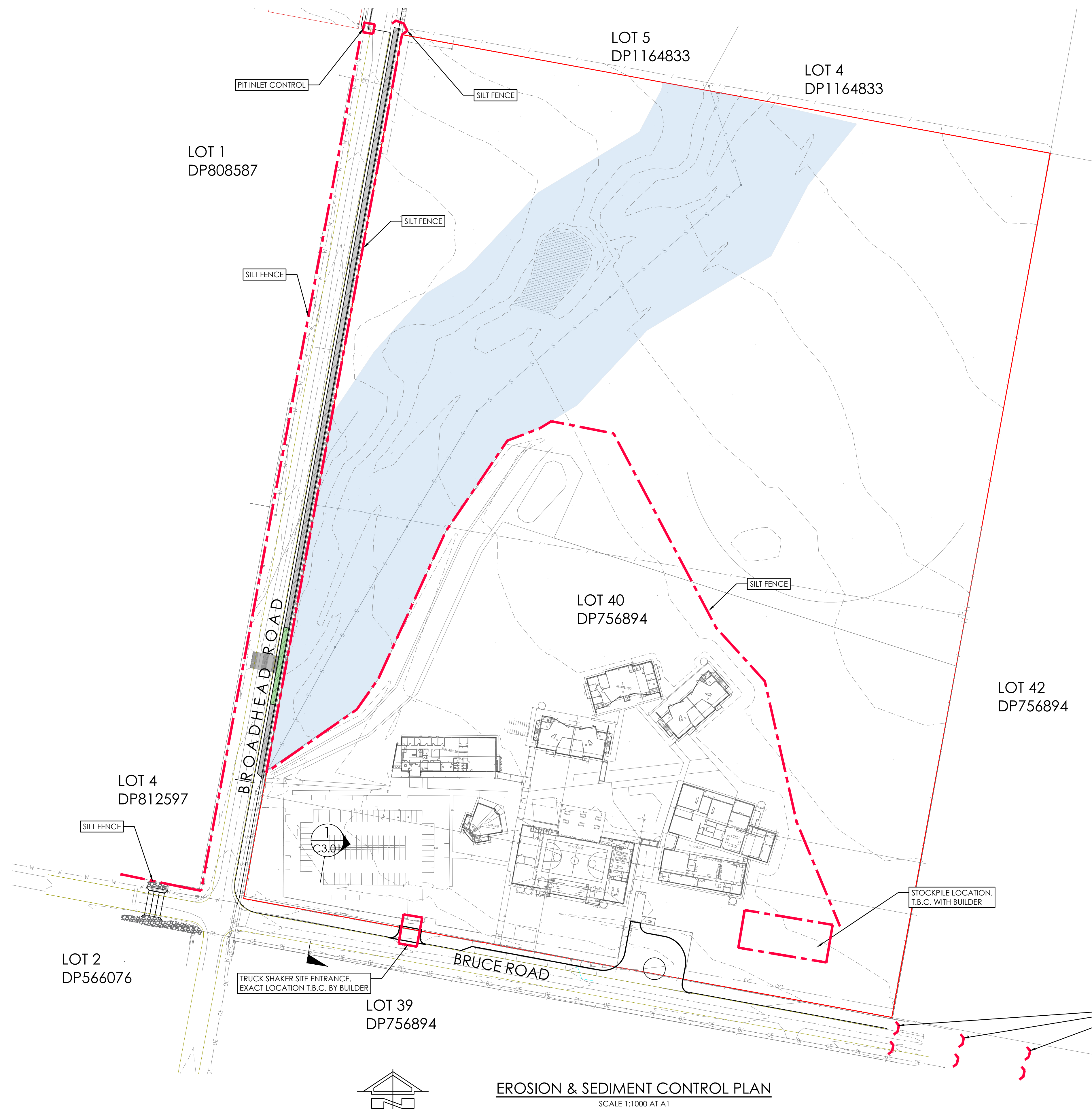
PROJECT No.	DRAWING No.	ISSUE
TX13843.00 -	C2.0	E

NOT FOR CONSTRUCTION









- NOTES:**
1. ALL EROSION & SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.
  2. ALL EROSION & SEDIMENT CONTROL MEASURES TO BE INSPECTED & MAINTAINED DAILY BY SITE MANAGER.
  3. SILT FENCES TO BE RETAINED AND MAINTAINED UNTIL FINAL COMPLETION, UNLESS APPROVED OTHERWISE BY COUNCIL/ENGINEER.
  4. CONTRACTOR SHALL MINIMISE THE PASSAGE OF CONSTRUCTION TRAFFIC OVER THE LAND SO AS TO PREVENT DISTURBANCE OF NATURAL GROUND.
  5. EXISTING VEGETATION AND TOPSOIL SHALL NOT BE STRIPPED FROM AREAS THAT DO NOT REQUIRE FILLING. ANY AREAS THAT ARE STRIPPED SHALL BE PROTECTED BY SILT FENCES TO THE REQUIREMENTS OF THE COUNCIL/ENGINEER.
  6. BATTERS TO BE STABILISED BY VEGETATING, TURFING OR OTHER APPROVED METHOD WITHIN 30 DAYS OF COMPLETION.
  7. DUST MINIMISATION CONTROL BY WATERING TO BE IMPLEMENTED BY SITE MANAGER AS REQUIRED OR AS PER COUNCIL SPECIFICATIONS.
  8. ROADS & FOOTPATHS TO BE SWEEPED DAILY. NO MUD OR DIRT ALLOWED ON PUBLIC FOOTPATH OR ROAD PAVEMENTS.
  9. VEHICLE TRAFFIC SHALL BE LIMITED TO 15KM/H.
  10. CONSTRUCTION TRAFFIC TO BE LIMITED TO ONE ENTRY/EXIT POINT.
  11. NO MATERIAL TO BE STOCKPILED ON SITE. EXCESS MATERIAL WHICH IS NOT UTILISED AS BULK FILL, SHALL BE REMOVED AND DISPOSED OFF SITE.

- LEGEND:**
- PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS.  
TYPICAL (N.S.O.P.)
- SILT FENCE ONLY (UNLESS NOTED OTHERWISE)
  - CONTOUR 1m INTERVALS

**EROSION & SEDIMENT CONTROL PLAN**  
SCALE 1:1000 AT A1

10m 0 10 20 30 40 50 60 70 80 90 100m  
SCALE 1:1000 AT A1 SHEET | 1:2000 AT A3 SHEET

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ISSUED FOR 80% DOCUMENTATION  
AMENDMENTS

22.09.20 B J.L.D.  
21.04.20 A J.L.D.  
DATE ISSUE BY

ARCHITECT  
**ALLEANZA**  
ARCHITECTURE

CLIENT  
**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEES, NSW, 2850

DESIGNED J.L.D. DRAWN J.O.M. DATE MAY '19 SIZE A1 CAD REF TX13843.00 - C01



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PO BOX 1075, MUDGEES NSW 2850

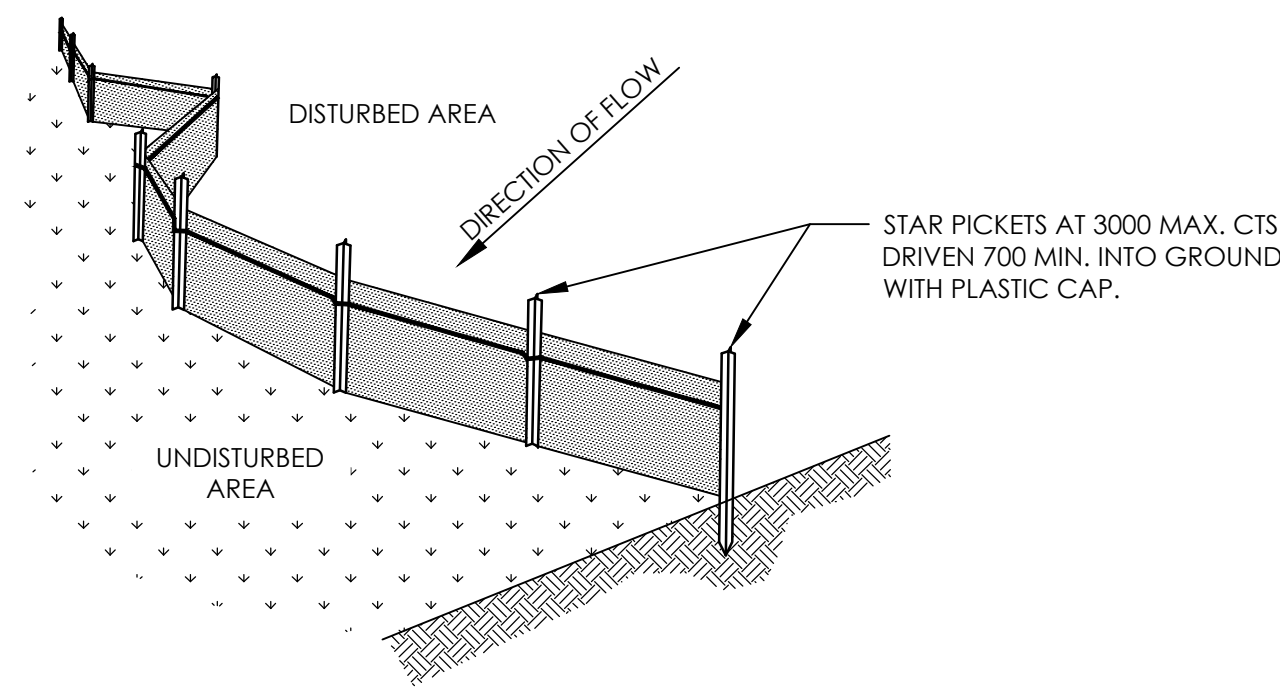
ADELAIDE | BAROSSA | DARWIN | MUDGEES | PARRAMATTA | SYDNEY

DRAWING TITLE  
**EROSION & SEDIMENT CONTROL PLAN**

PROJECT No. TX13843.00 - C3.0 DRAWING No. ISSUE B

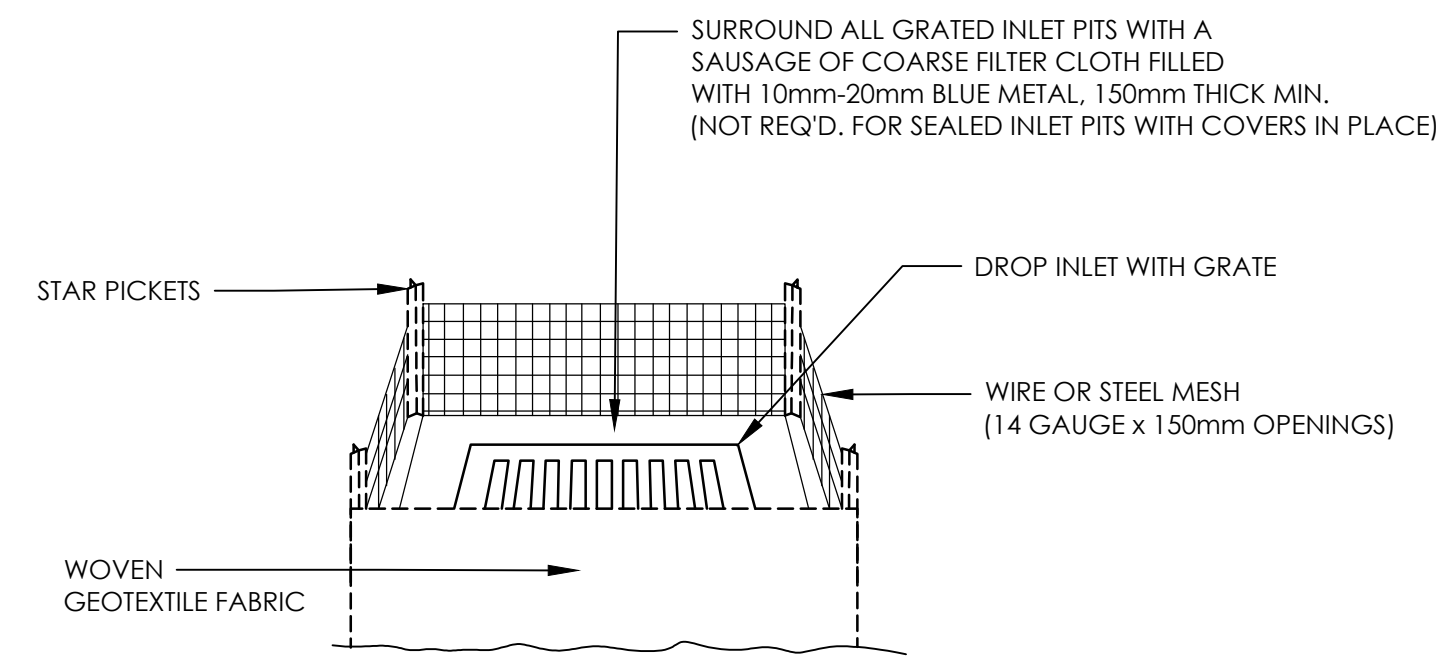
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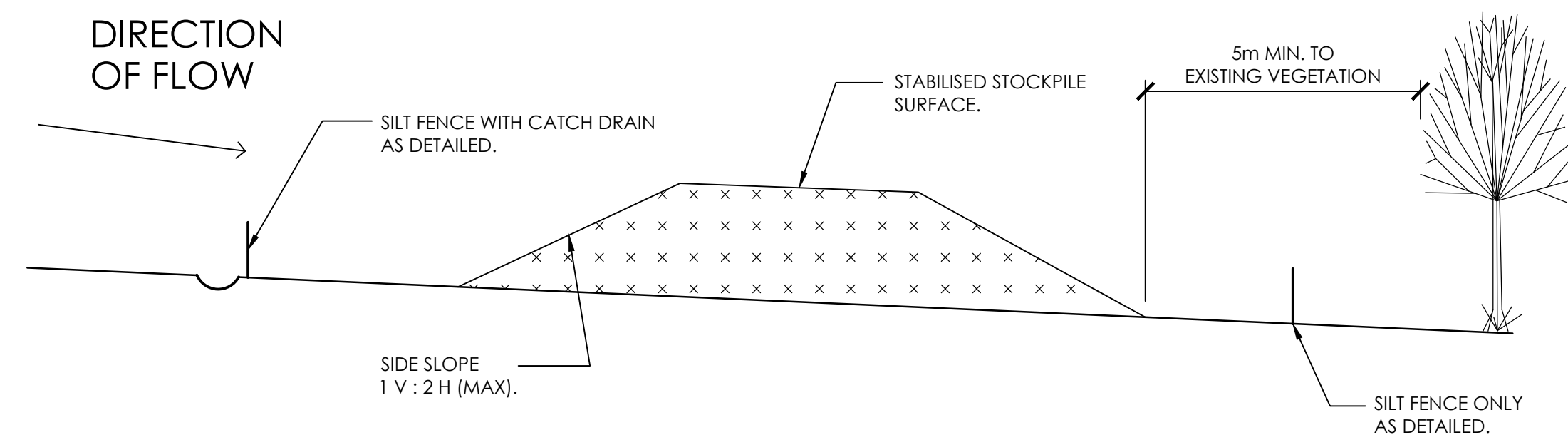
**SILT FENCE DETAIL**  
NOT TO SCALE

NOTE:  
PROVIDE 1m RETURNS AT 30m INTERVALS. TYPICAL.



**GRATED INLET PIT FILTER DETAIL**  
NOT TO SCALE

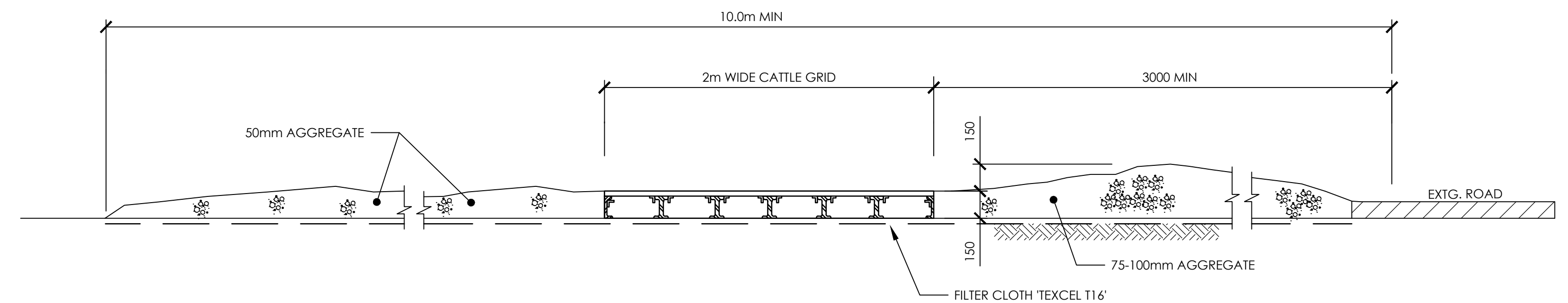
NOTE:  
ADOPT ABOVE DETAIL AROUND ALL PITS WITHIN AREA ENCOMPASSED BY SILT FENCE.



**TYPICAL STOCKPILE DETAIL**  
N.T.S.

- STOCKPILE NOTES:**
1. PLACE ALL STOCKPILES IN LOCATIONS MORE THAN 5m FROM EXISTING VEGETATION, ROADS & HAZARD AREAS.
  2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT ELONGATED MOUNDS. SIDE SLOPE TO BE 1 V: 2 H MAX.
  3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
  4. WHERE STOCKPILES ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE USING WOOD CHIP MULCH - 14 TONNE/Ha.
  5. CONSTRUCT SILT FENCE WITH CATCH DRAIN ON UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES & SILT FENCE ONLY 1 TO 2m DOWNSLOPE AS SHOWN.

**NOTES :**  
ALL EROSION & SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED PRIOR TO COMMENCEMENT OF SITE WORKS.  
  
ALL EROSION & SEDIMENT CONTROL MEASURES TO BE INSPECTED & MAINTAINED DAILY BY SITE MANAGER.  
  
MINIMISE DISTURBED AREAS.  
  
ROADS & FOOTPATHS TO BE SWEEPED DAILY.  
NO MUD OR DIRT ALLOWED ON FOOTPATH OR ROAD PAVEMENTS.  
  
BATTERS TO BE STABILISED BY VEGETATING, TURFING OR OTHER APPROVED METHOD WITHIN 30 DAYS OF COMPLETION.  
  
DUST MINIMISATION CONTROL BY WATERING TO BE IMPLEMENTED BY SITE MANAGER AS REQUIRED OR AS PER COUNCIL SPECIFICATIONS.



**STABILISED CONSTRUCTION ENTRANCE 'SHAKER PAD'**  
NOT TO SCALE

NOTE:  
TO BE CONSTRUCTED PRIOR TO COMMENCEMENT OF ANY WORKS.





CUT/FILL:

CUT AND FILL TO UNDERSIDE OF BUILDING PADS, TOP OF CARPARK PAVEMENT.

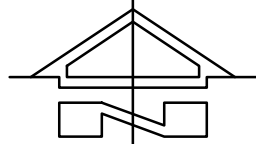
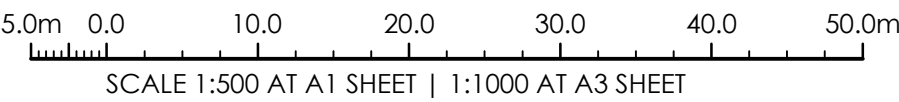
CUT / FILL FOR SITE AS FOLLOWS:

BUILDING LEVELS + CARPARK + LEVEE BANK:  
NET = 3350m³ (FILL REQUIRED)

- \* ASSUMED BUILDING PAD THICKNESS 0.25m.
- \* NO BULKING OR COMPACTION FACTOR HAS BEEN USED.
- \* BUILDING PAD LEVEL SLOPE ASSUMED 6:1.
- \* ACCESS PATH INTO SITE TO COMPLY WITH ACCESSIBLE GRADING REQUIREMENTS.
- \* EXTENT OF ANALYSIS SHOWN BY THE RED AND GREEN COLOURING

Surface Analysis: Elevation Ranges			
Number	Colour	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-1.500	-1.000
2	Red	-1.000	-0.500
3	Red	-0.500	0.000
4	Green	0.000	0.500
5	Green	0.500	1.000
6	Green	1.000	1.500
7	Green	1.500	2.000

NOTE:  
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BULK EARTHWORKS PLAN - INTERNAL  
SCALE 1:500 AT A1

ISSUED FOR 80% DOCUMENTATION	22.09.20	H	J.L.D.
ISSUED FOR INFORMATION	11.03.20	G	J.L.D.
ISSUED FOR INFORMATION	10.03.20	F	J.L.D.
ISSUED FOR INFORMATION	26.02.20	E	J.L.D.
AMENDMENTS	DATE	ISSUE	BY

ARCHITECT  
**ALLEANZA**  
ARCHITECTURE

CLIENT  
**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEES, NSW, 2850

DESIGNED J.L.D. DRAWN J.O.M. DATE MAY '19 SIZE A1 CAD REF TX13843.00 - C1.0



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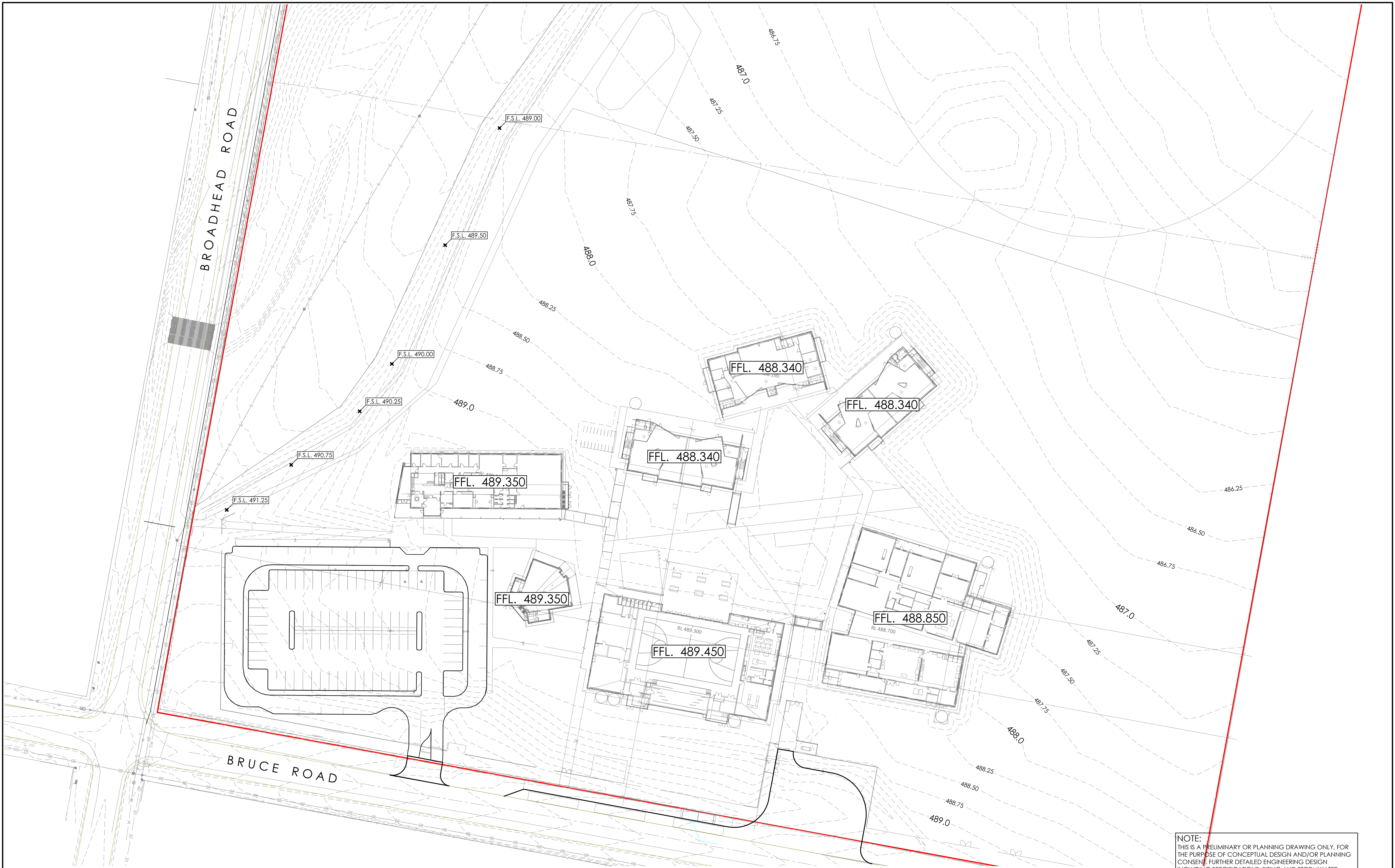
ADELAIDE | BAROSSA | DARWIN | MUDGEES | PARRAMATTA | SYDNEY

DRAWING TITLE  
**BULK EARTHWORKS PLAN -  
INTERNAL**

PROJECT No. **TX13843.00 - C4.0** DRAWING No. **H** ISSUE

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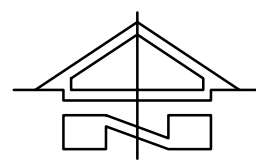




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INVERTS TO BE PROVIDED PRIOR TO BUILDING RULES  
ASSESSMENT AND CONSTRUCTION.

5.0m 0.0 10.0 20.0 30.0 40.0 50.0m

SCALE 1:500 AT A1 SHEET | 1:1000 AT A3 SHEET



**BULK EARTHWORKS CONTOURS - INTERNAL**

SCALE 1:500 AT A1

ISSUED FOR INFORMATION	10.03.20	D	J.L.D.	ARCHITECT
ISSUED FOR 80% DOCUMENTATION	22.09.20	G	J.L.D.	
ISSUED FOR INFORMATION	13.01.20	F	J.L.D.	
ISSUED FOR INFORMATION	11.03.20	E	J.L.D.	
AMENDMENTS	DATE	ISSUE	BY	

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ARCHITECTURE

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SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEE, NSW, 2850

DESIGNED J.L.D. DRAWN J.O.M. DATE MAY '19 SIZE A1 CAD REF TX13843.00 - C1.0



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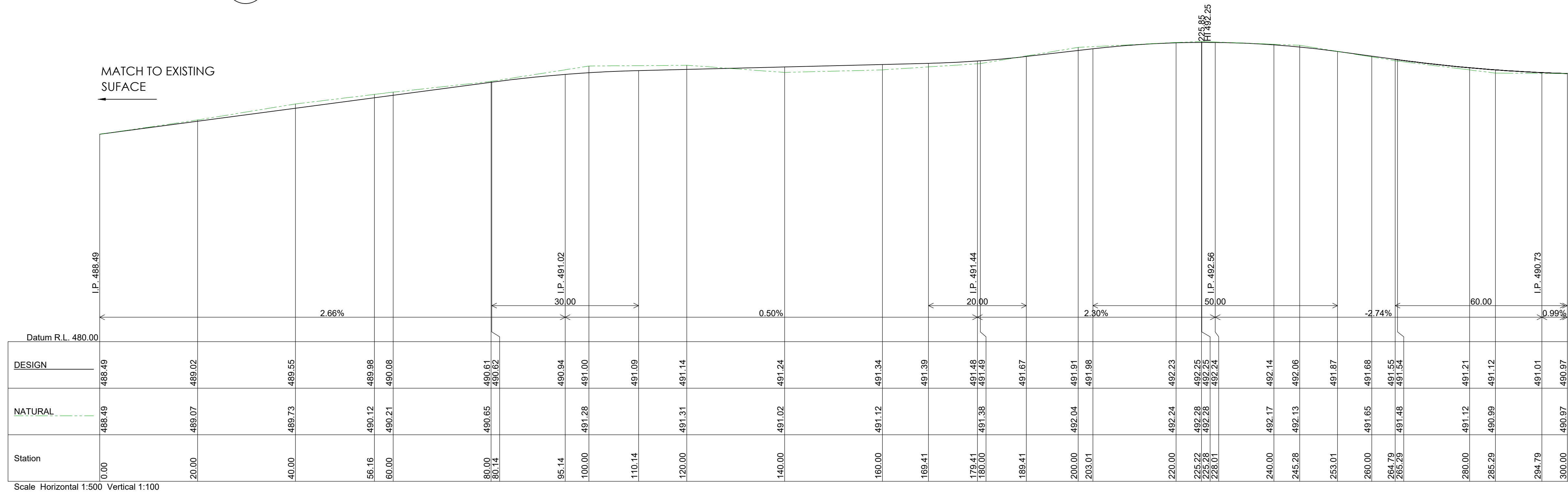
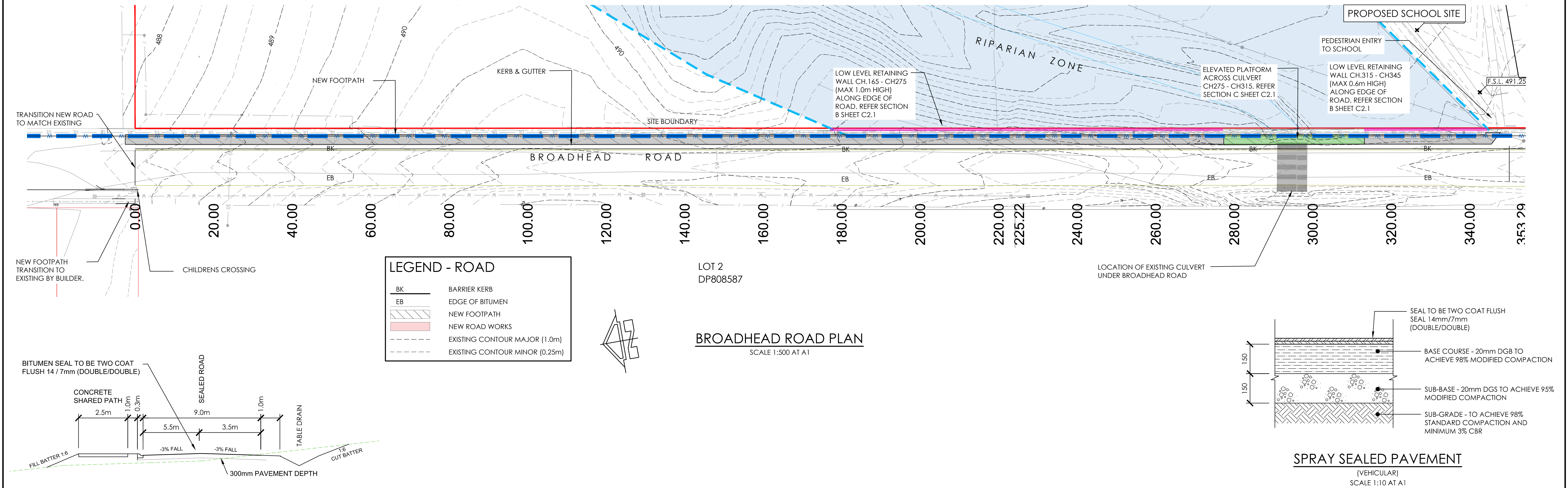
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DRAWING TITLE  
**BULK EARTHWORKS CONTOURS -  
INTERNAL**

PROJECT No. **TX13843.00 - C4.1** DRAWING No. **C4.1** ISSUE **G**

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BROADHEAD LONG SECTION

SCALE 1:500 AT A1 (HORIZONTAL)

SCALE 1:100 AT A1 (VERTICAL)

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5.0m 0.0 10.0 20.0 30.0 40.0 50.0m

SCALE 1:500 AT A1 SHEET | 1:1000 AT A3 SHEET

ISSUED FOR 80% DOCUMENTATION 22.09.20 H J.L.D. ARCHITECT

ISSUED FOR INFORMATION 10.03.20 G J.L.D.

ISSUED FOR INFORMATION 15.01.20 F J.L.D.

ISSUED FOR INFORMATION 25.11.19 E J.L.D.

AMENDMENTS DATE ISSUE BY

ALLEANZA ARCHITECTURE

CLIENT

TSA MANAGEMENT

LEVEL 15, 207 KENT ST

SYDNEY, NSW, 2000



PROJECT

PROPOSED SCHOOL

LOT 40 BROADHEAD ROAD

MUDGEES, NSW, 2850

DESIGNED J.L.D. DRAWN J.O.M. DATE MAY '19 SIZE A1 CAD REF TX13843.00 - C01



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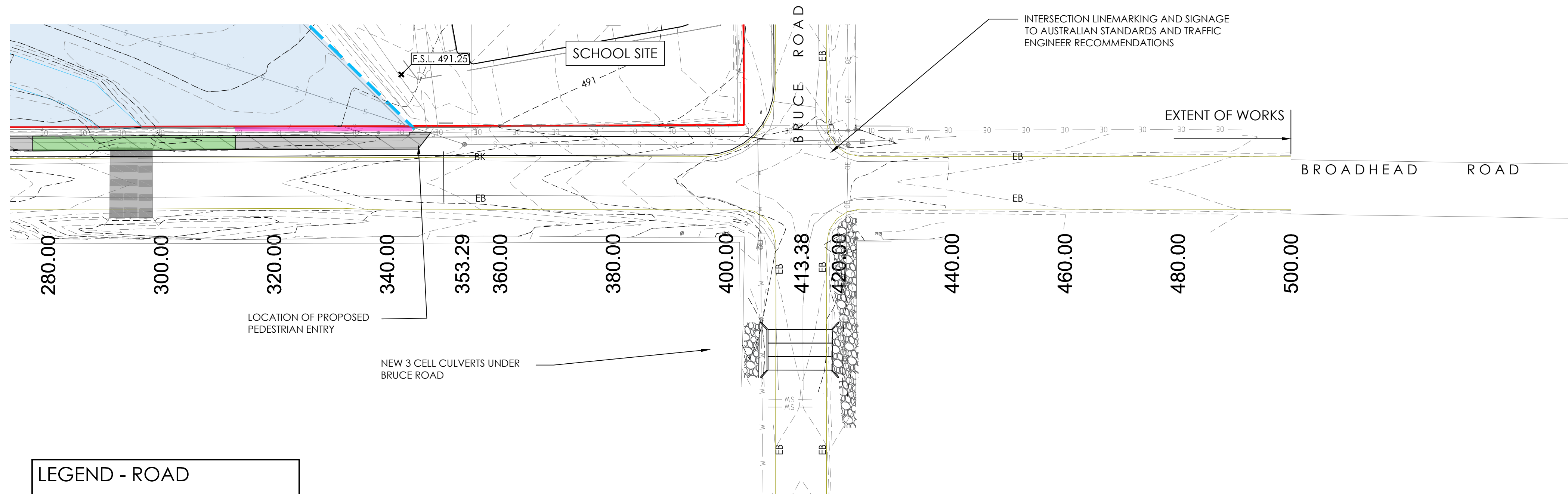
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BROADHEAD ROAD LONG SECTION - SHEET 1

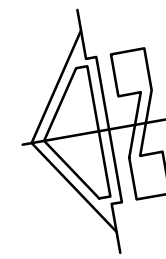
PROJECT No. TX13843.00 - C5.0 DRAWING No. ISSUE H

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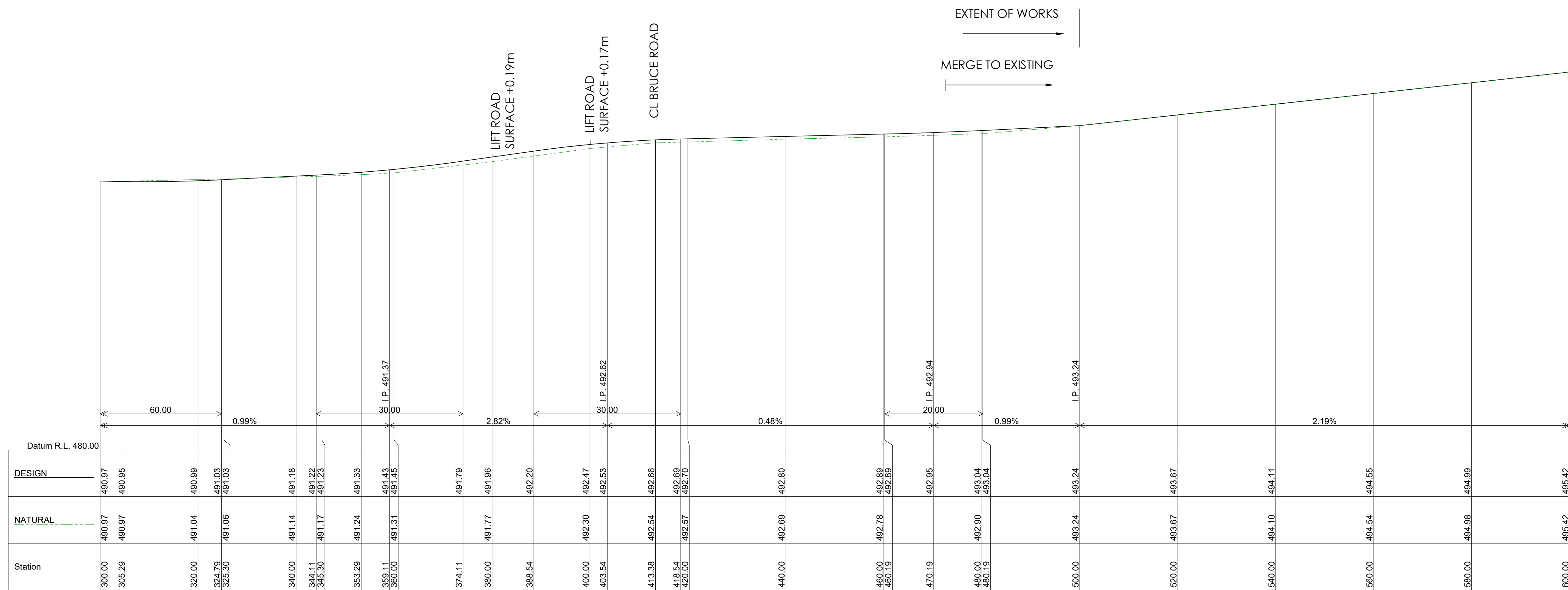




LEGEND - ROAD	
BK	BARRIER KERB
EB	EDGE OF BITUMEN
	NEW FOOTPATH
	NEW ROAD WORKS
	EXISTING CONTOUR MAJOR (1.0m)
	EXISTING CONTOUR MINOR (0.25m)



BROADHEAD ROAD PLAN  
SCALE 1:500 AT A1

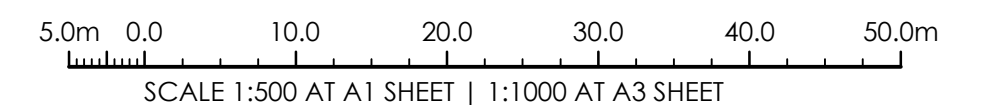


Scale Horizontal 1:500 Vertical 1:100

BROADHEAD LONG SECTION

SCALE 1:500 AT A1 (HORIZONTAL)  
SCALE 1:100 AT A1 (VERTICAL)

NOTE:  
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ISSUED FOR INFORMATION	25.11.19	D	J.L.D.	ARCHITECT
ISSUED FOR INFORMATION	10.03.20	G	J.L.D.	
ISSUED FOR INFORMATION	17.01.20	F	J.L.D.	
ISSUED FOR INFORMATION	15.01.20	E	J.L.D.	
AMENDMENTS	DATE	ISSUE	BY	



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TSA MANAGEMENT  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
PROPOSED SCHOOL  
LOT 40 BROADHEAD ROAD  
MUDGEES, NSW, 2850

DESIGNED	DRAWN	DATE	SIZE	CAD REF
J.L.D.	JO.M.	MAY '19	A1	TX13843.00 - C01



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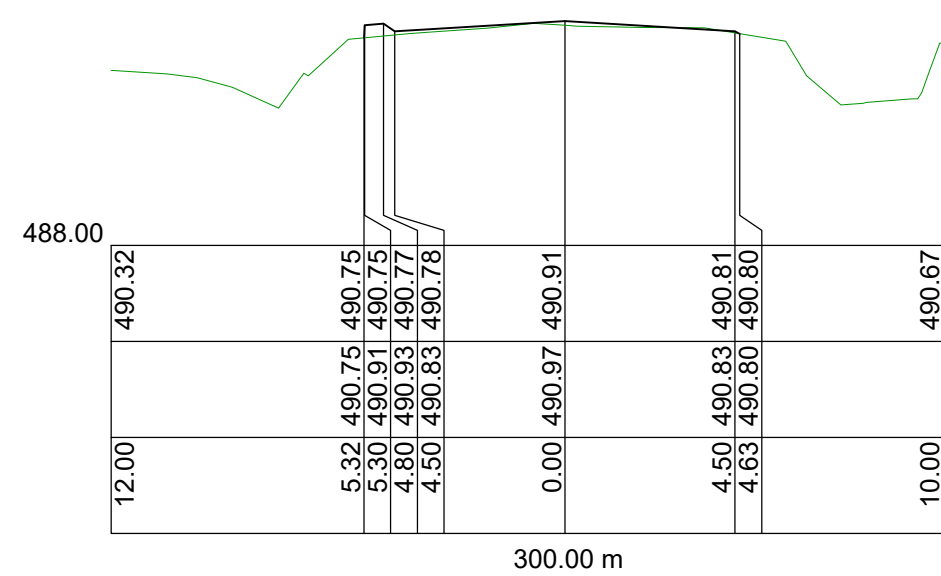
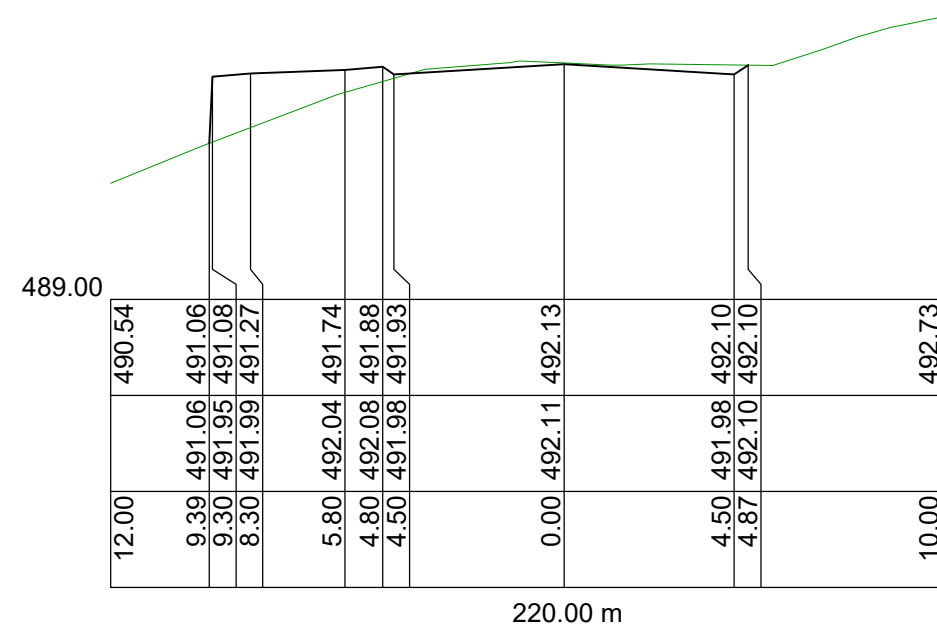
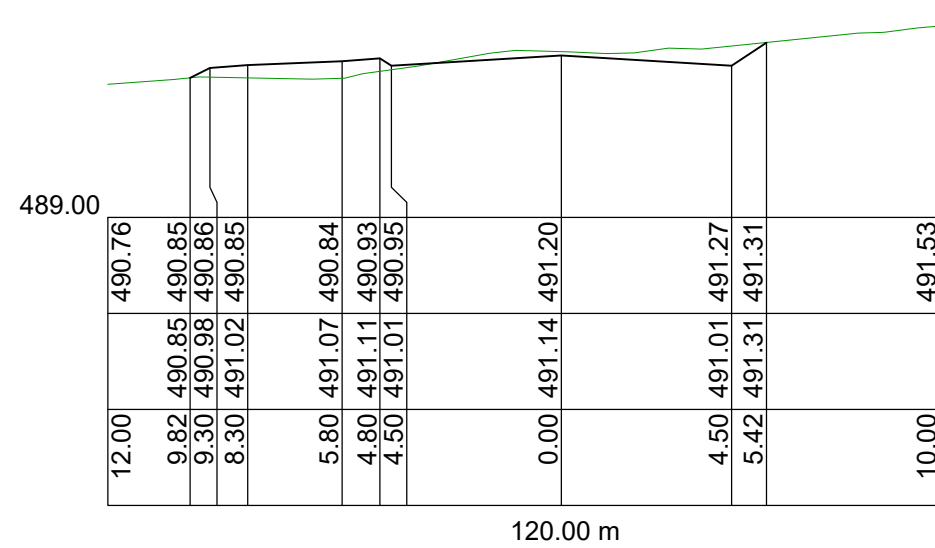
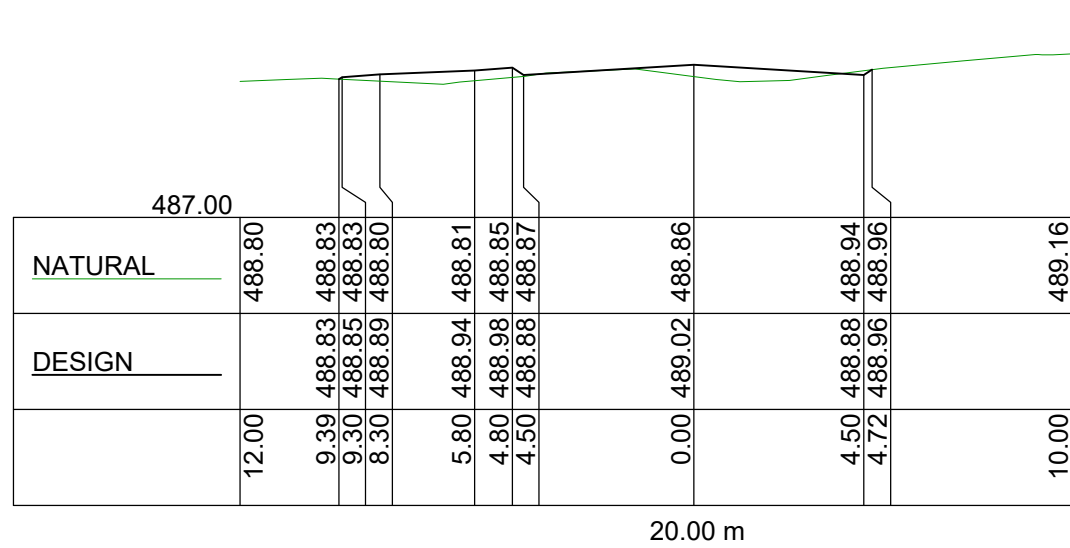
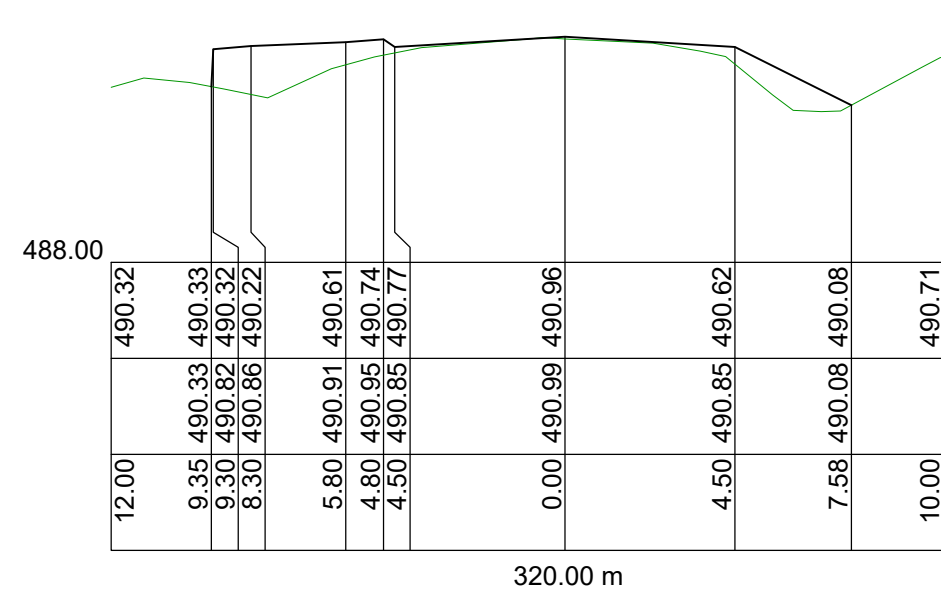
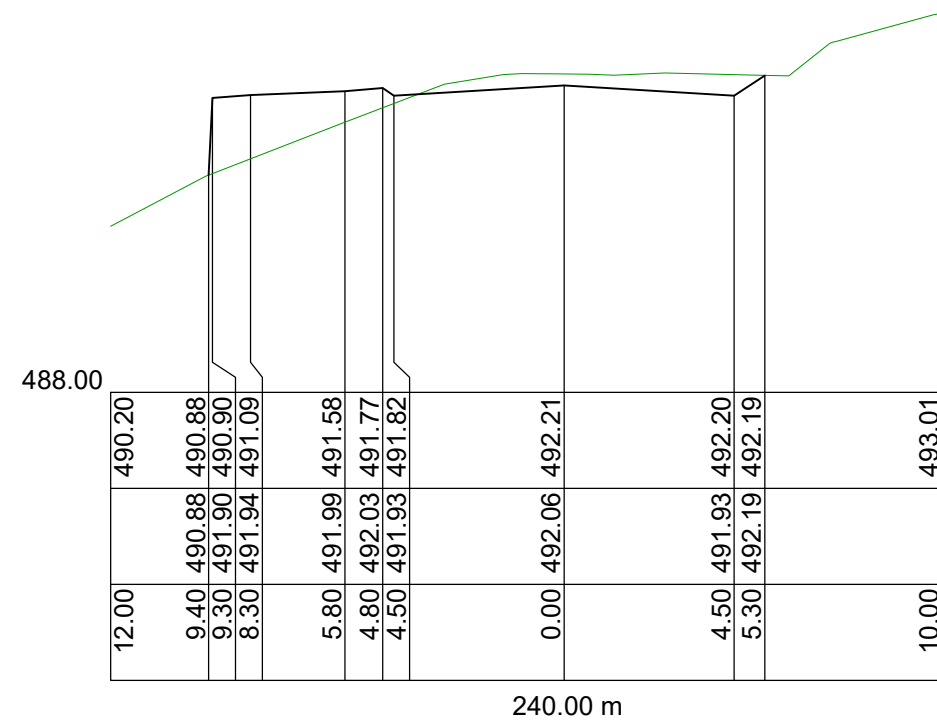
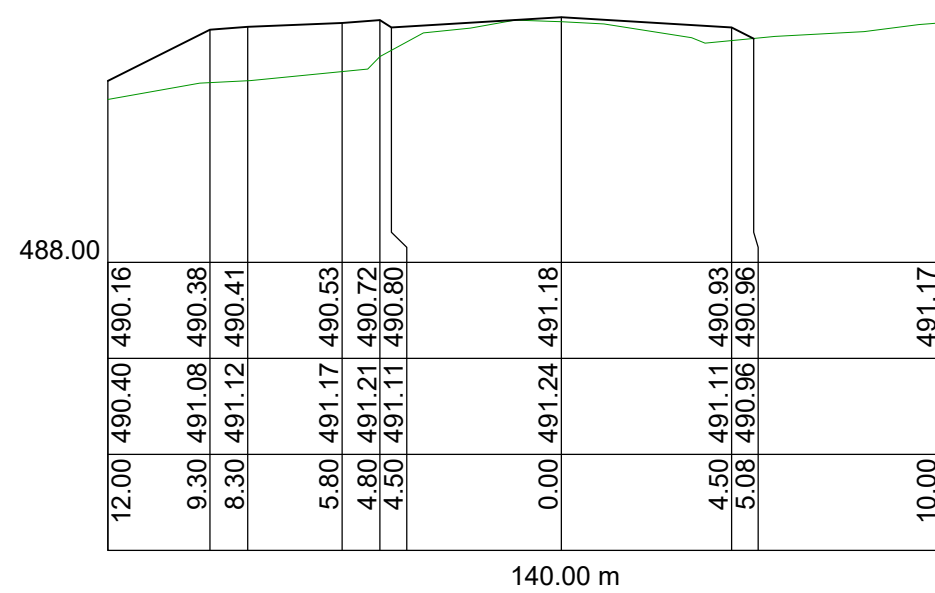
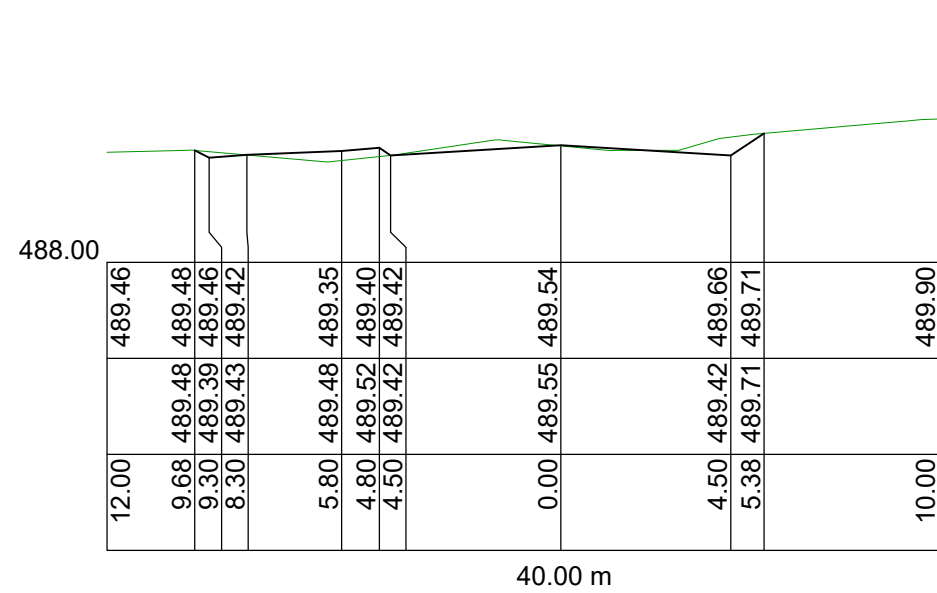
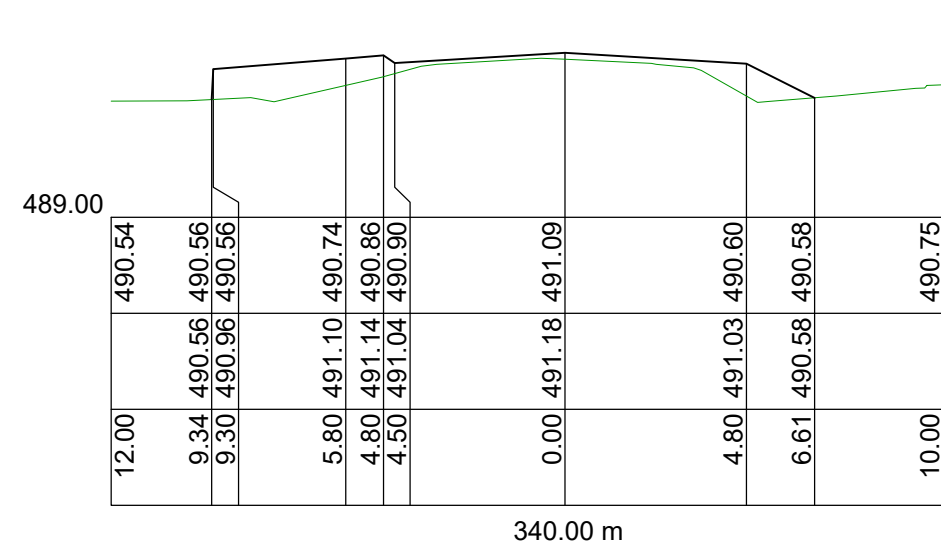
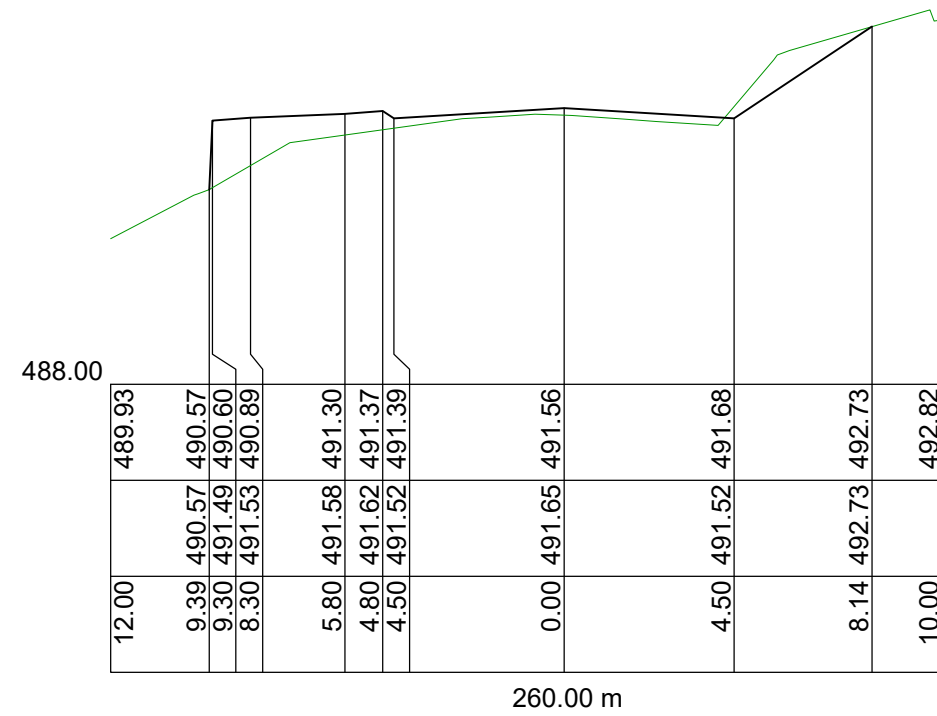
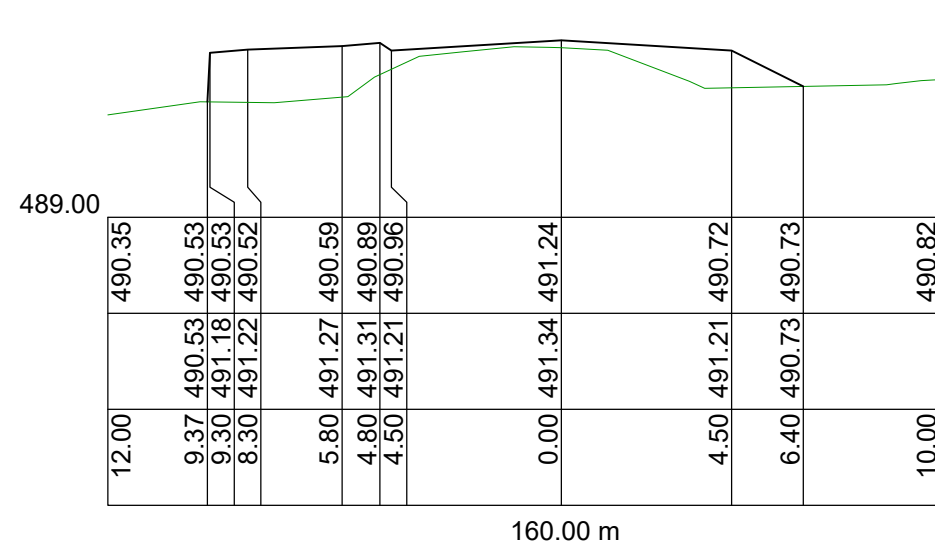
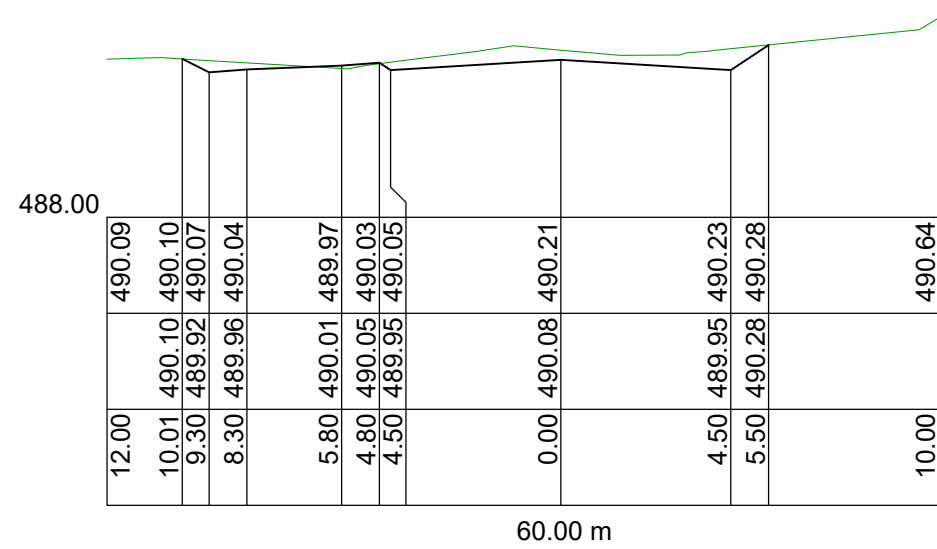
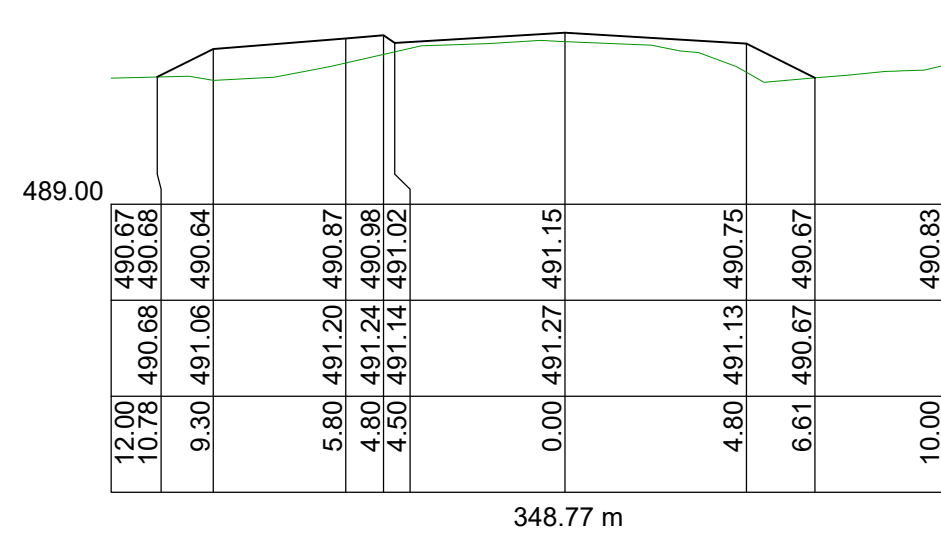
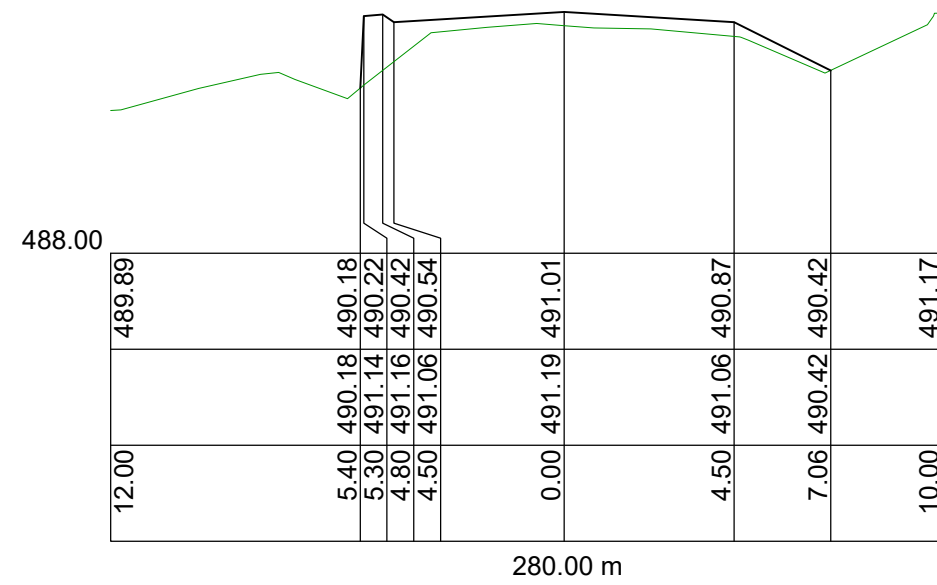
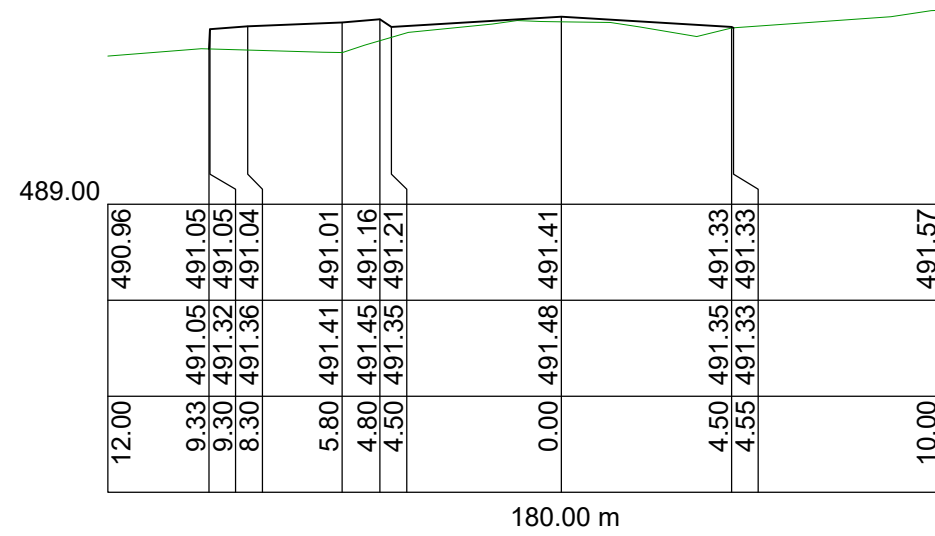
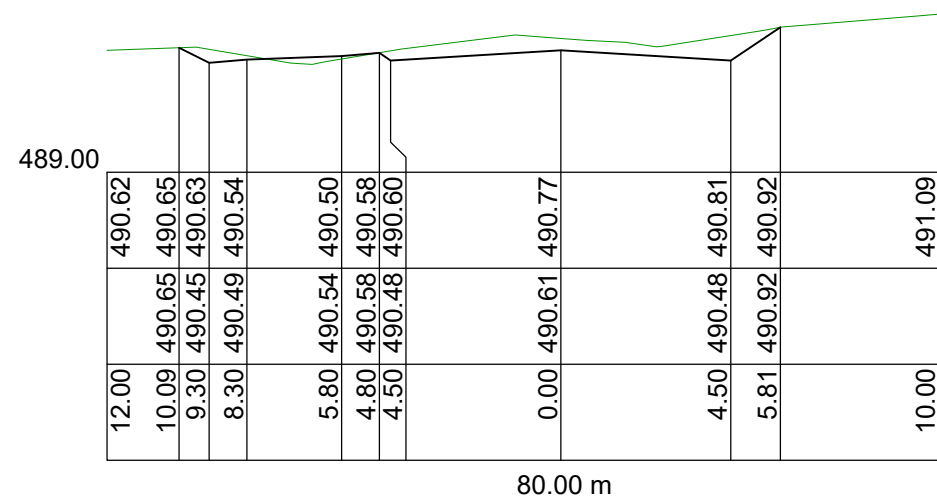
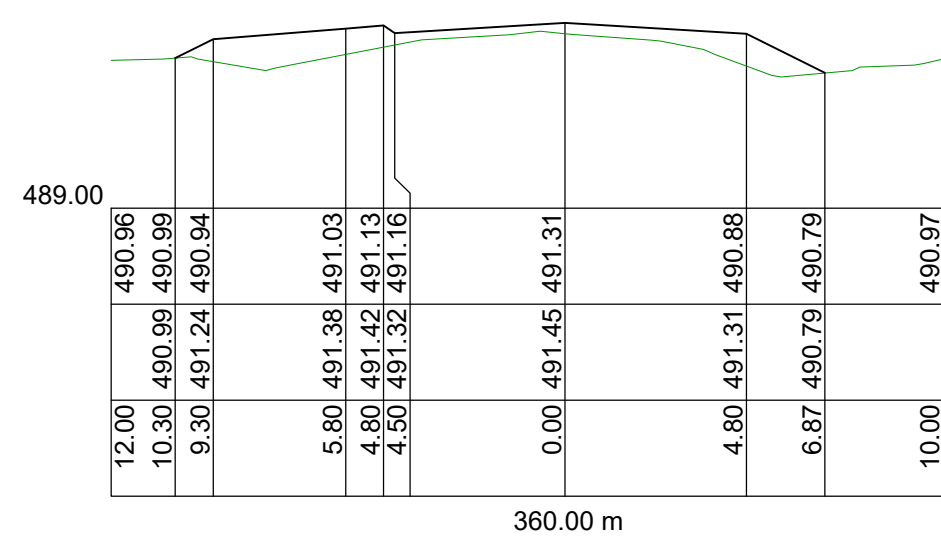
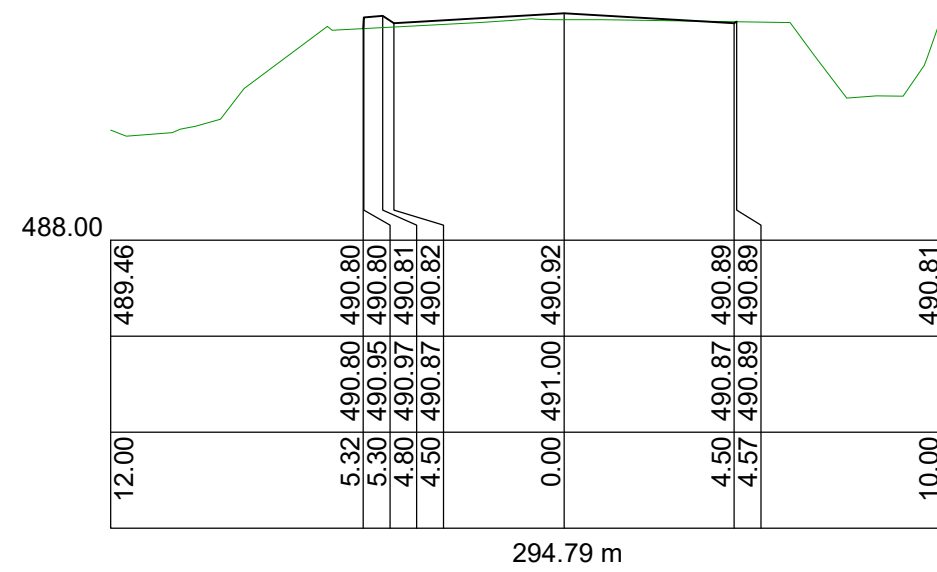
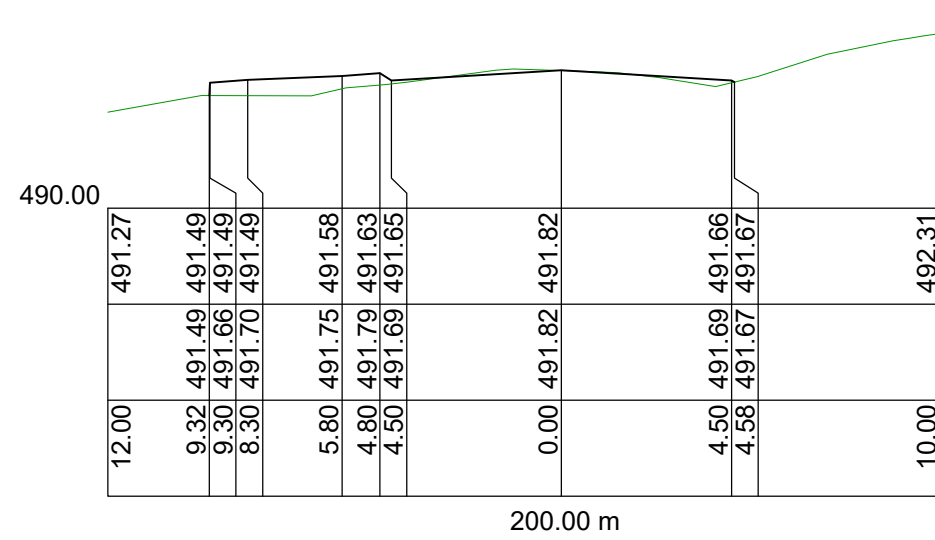
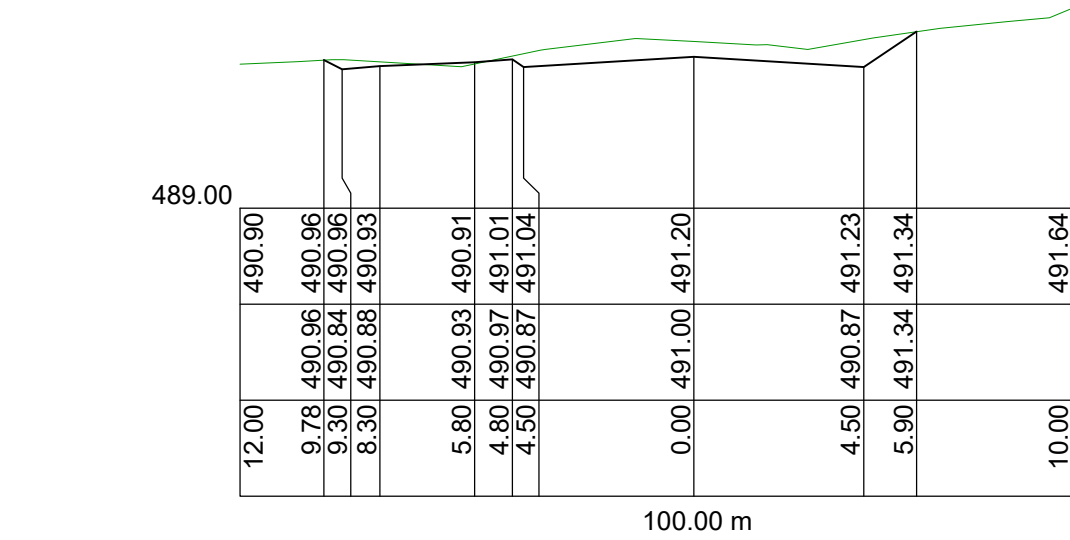
ADELAIDE | BAROSSA | DARWIN | MUDGEES | PARRAMATTA | SYDNEY

DRAWING TITLE  
BROADHEAD ROAD LONG  
SECTION - SHEET 2

PROJECT No.  
TX13843.00 - C5.1  
DRAWING No.  
C5.1  
ISSUE  
G

NOT FOR CONSTRUCTION





BROADHEAD CROSS SECTION

SCALE 1:500 AT A1 (HORIZONTAL)

SCALE 1:100 AT A1 (VERTICAL)

ISSUED FOR 80% DOCUMENTATION  
AMENDMENTS

22.09.20 A J.L.D.  
DATE ISSUE BY

ARCHITECT

ALLEANZA  
ARCHITECTURE

CLIENT

TSA MANAGEMENT  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT

PROPOSED SCHOOL  
LOT 40 BROADHEAD ROAD  
MUDGEES, NSW, 2850

DESIGNED  
J.L.D.

DRAWN  
J.O.M.

DATE  
MAY '19

SIZE  
A1

CAD REF  
TX13843.00 - C01



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COMPLEX PROBLEMS  
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DRAWING TITLE

BROADHEAD ROAD CROSS  
SECTION - SHEET 1

PROJECT No.

TX13843.00 - C5.2

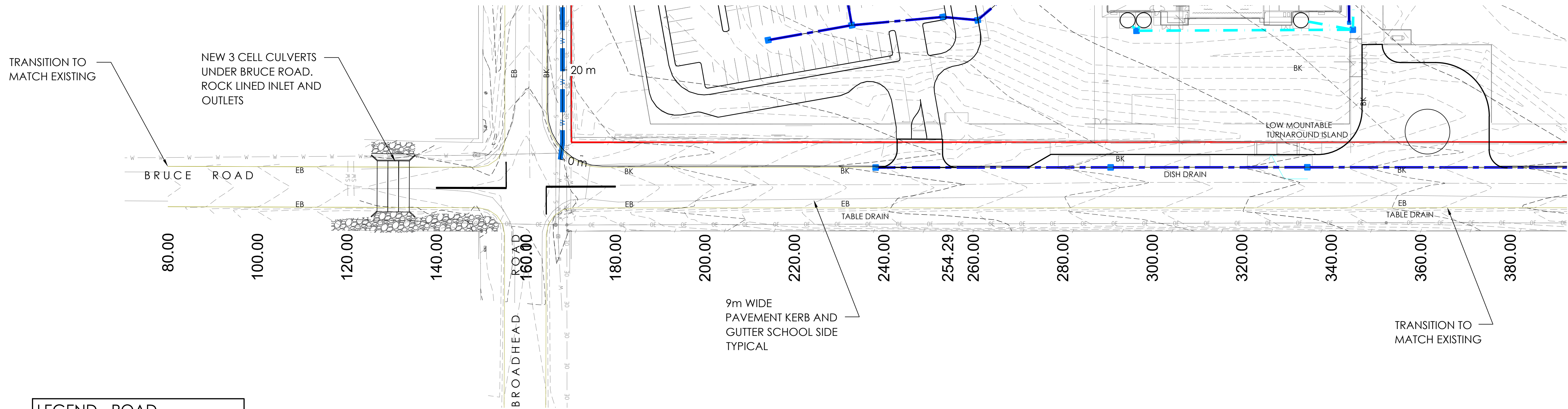
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ISSUE

A

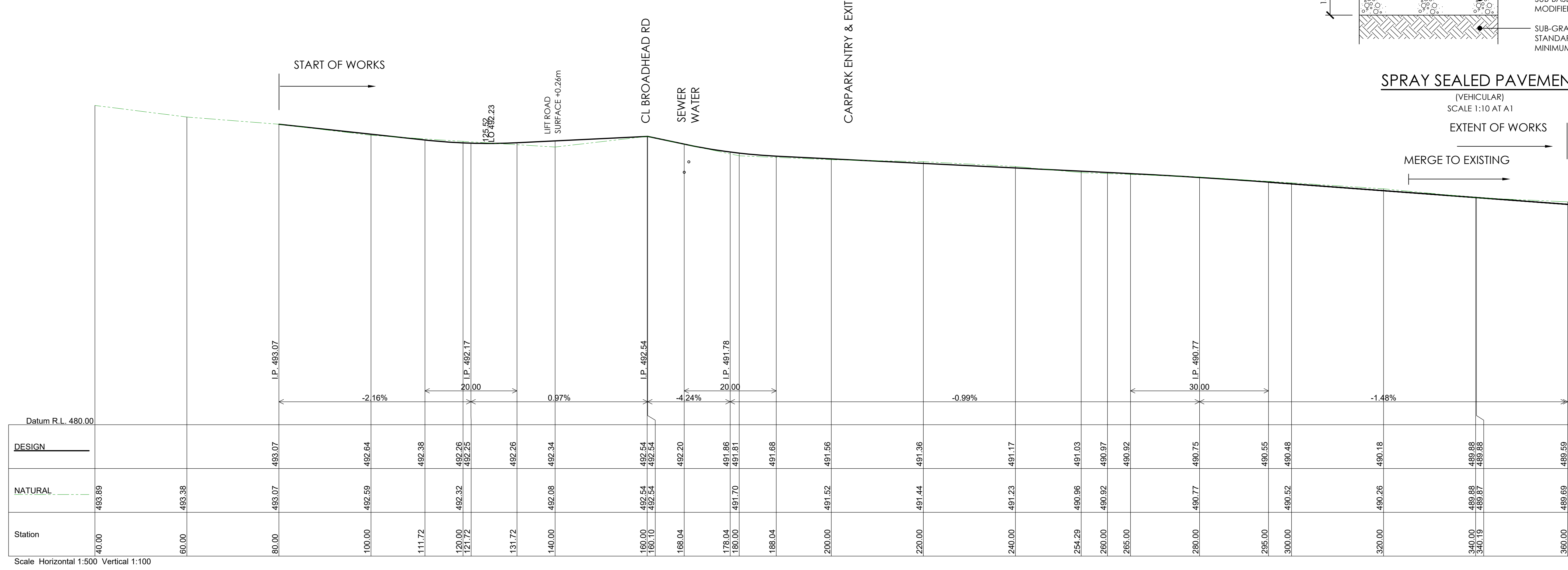
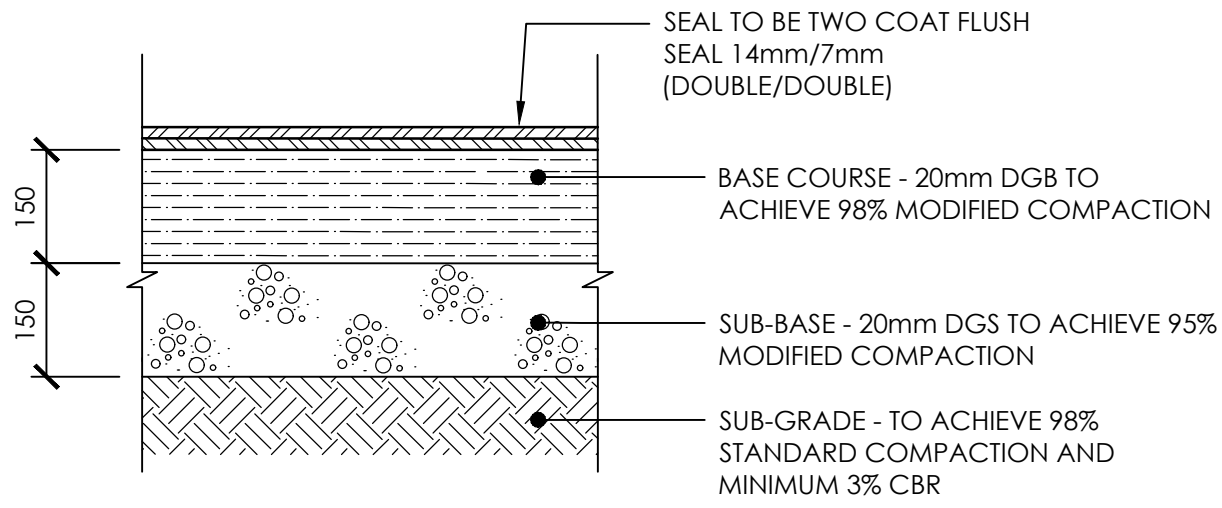
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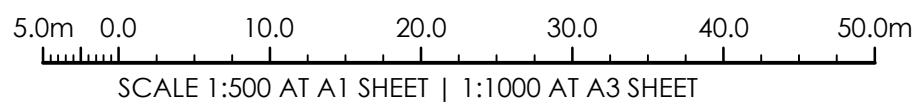


**LEGEND - ROAD**

- BK BARRIER KERB
- EB EDGE OF BITUMEN
- NEW FOOTPATH
- NEW ROAD WORKS
- EXISTING CONTOUR MAJOR (1.0m)
- EXISTING CONTOUR MINOR (0.25m)

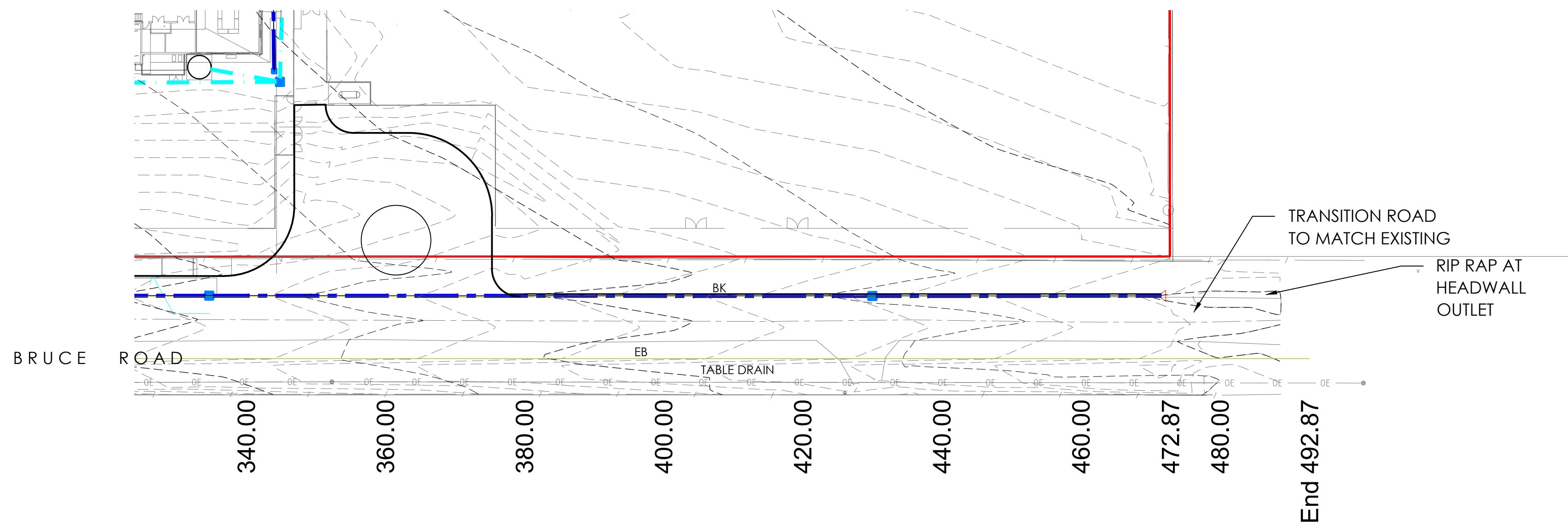


**BRUCE ROAD LONG SECTION**  
SCALE 1:500 AT A1 (HORIZONTAL)  
SCALE 1:100 AT A1 (VERTICAL)

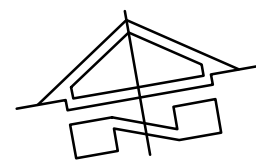


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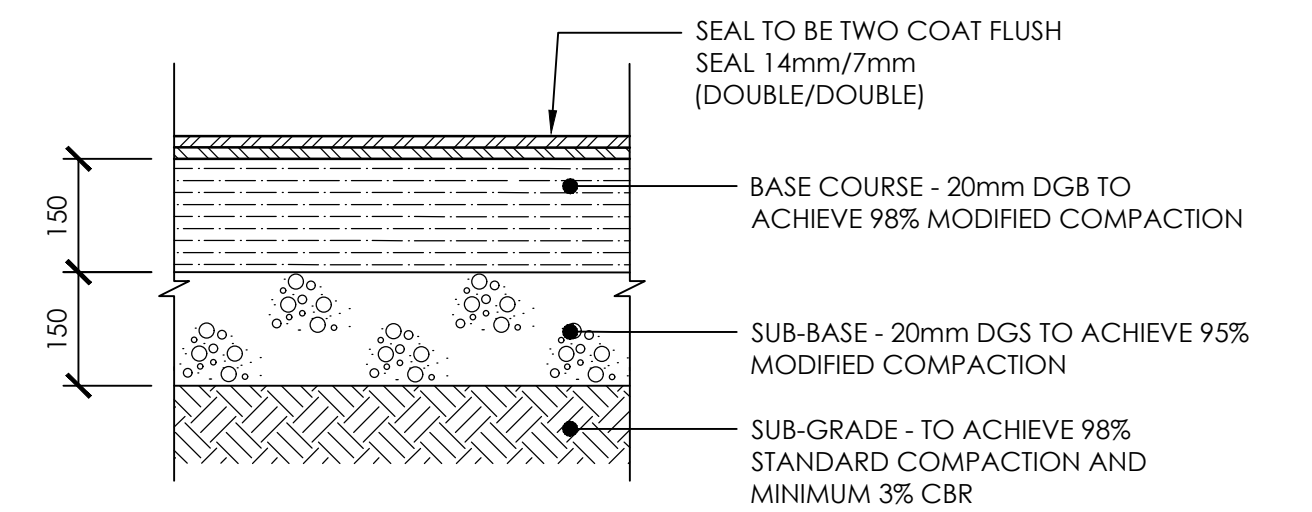




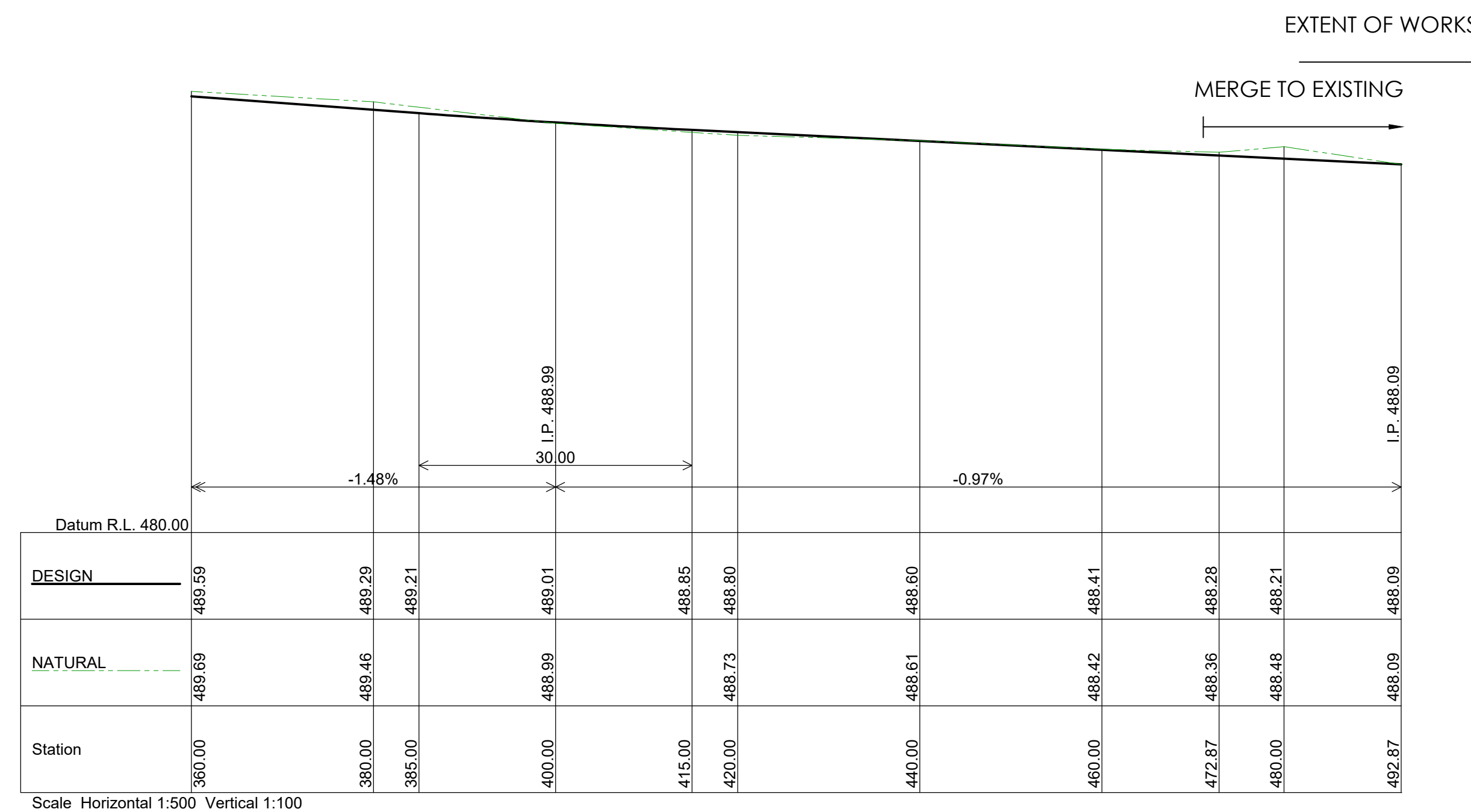
LEGEND - ROAD	
BK	BARRIER KERB
EB	EDGE OF BITUMEN
	NEW FOOTPATH
	NEW ROAD WORKS
	EXISTING CONTOUR MAJOR (1.0m)
	EXISTING CONTOUR MINOR (0.25m)



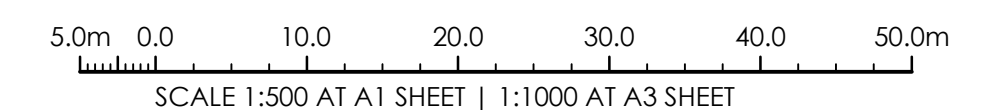
BRUCE ROAD PLAN  
SCALE 1:500 AT A1



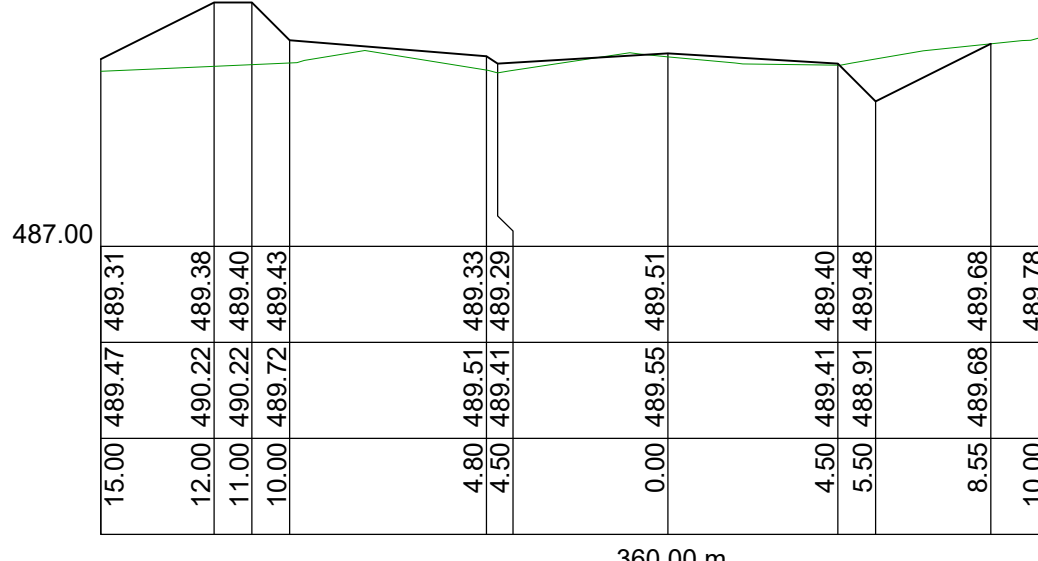
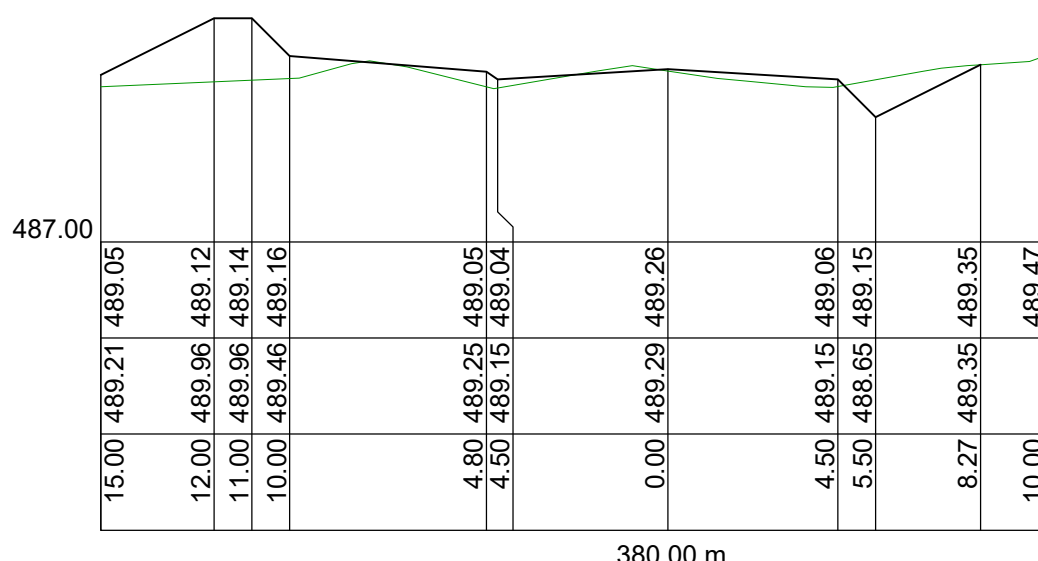
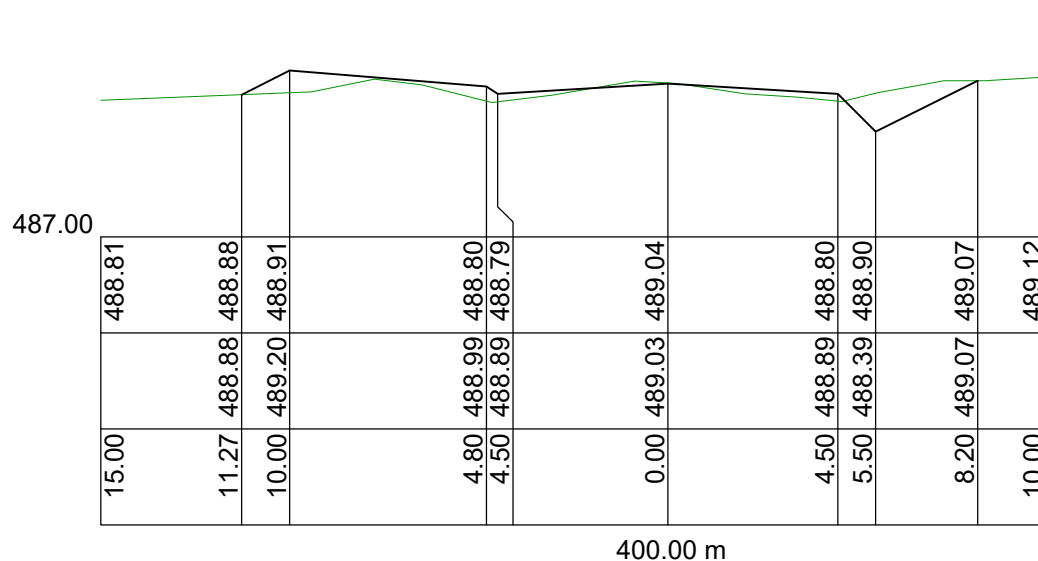
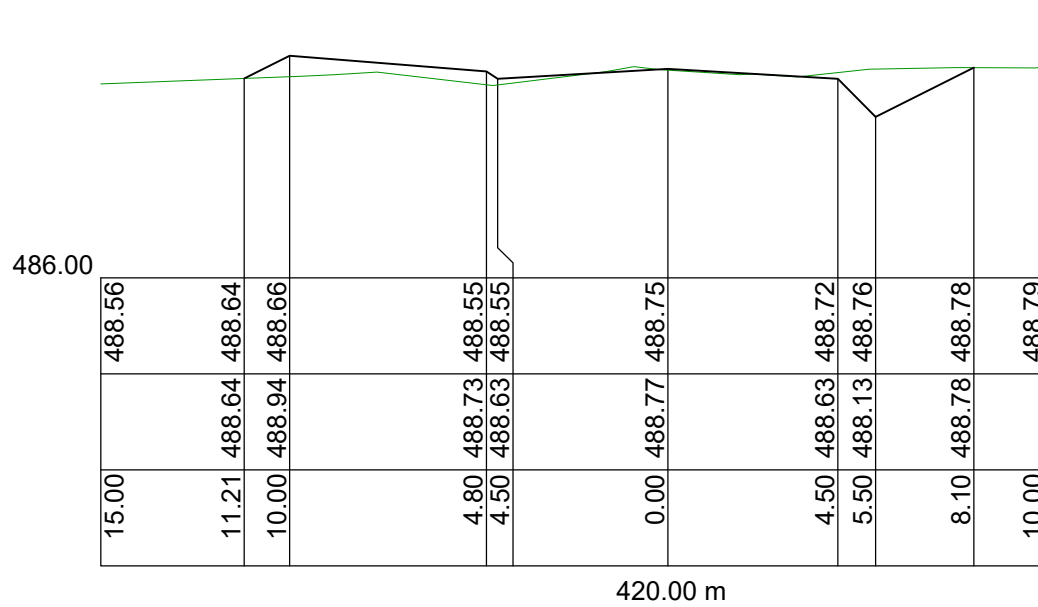
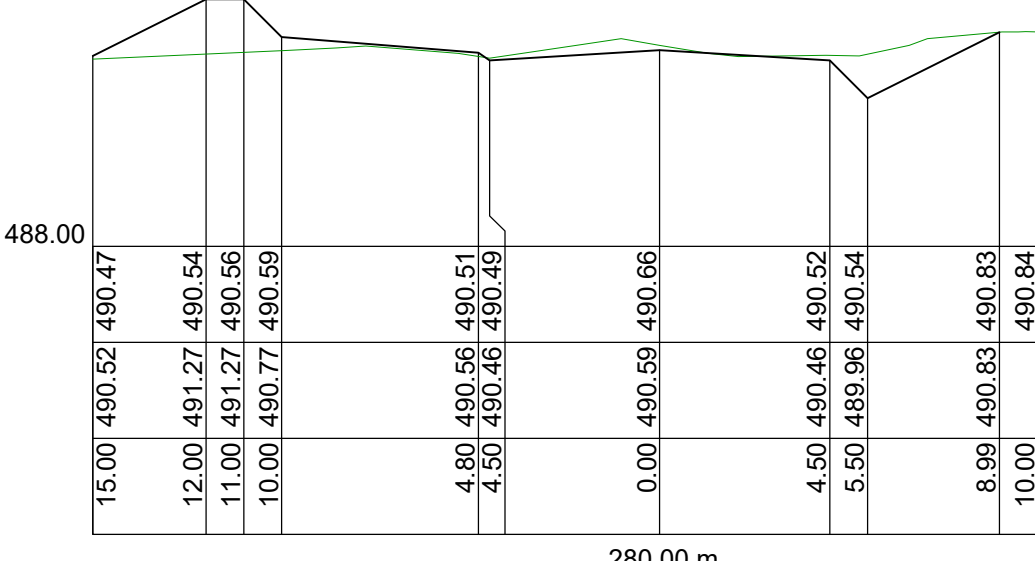
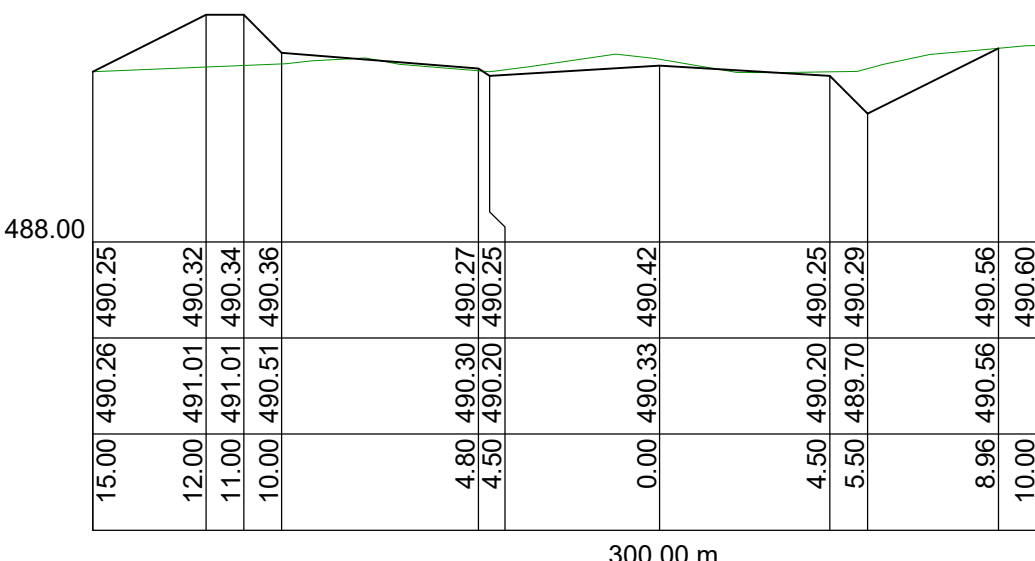
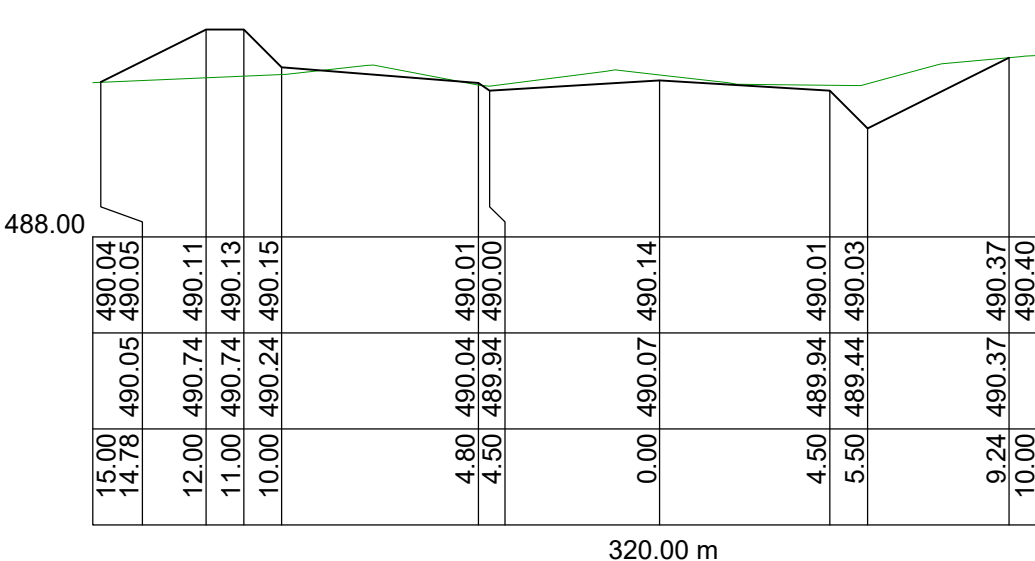
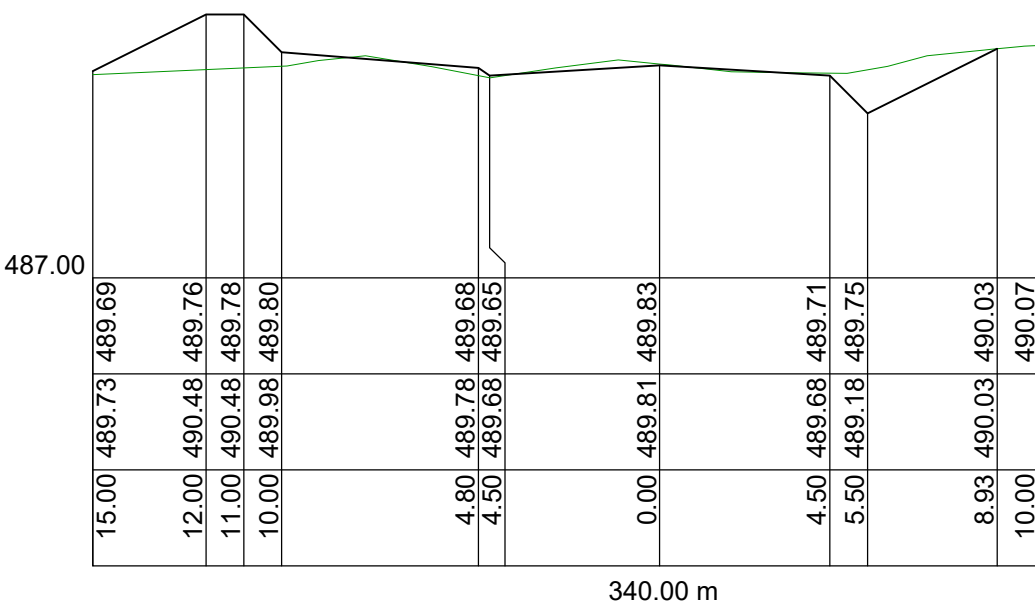
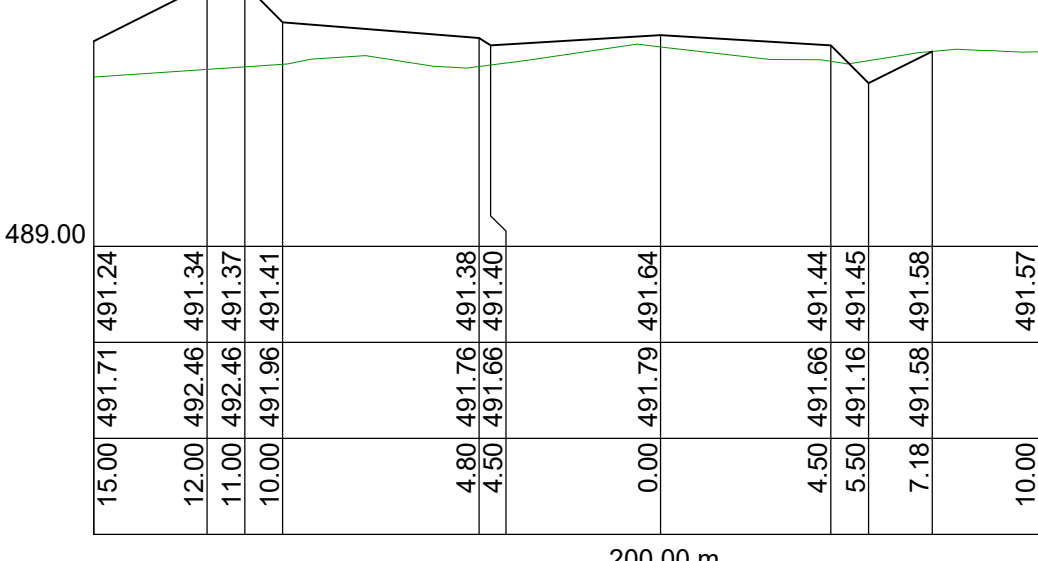
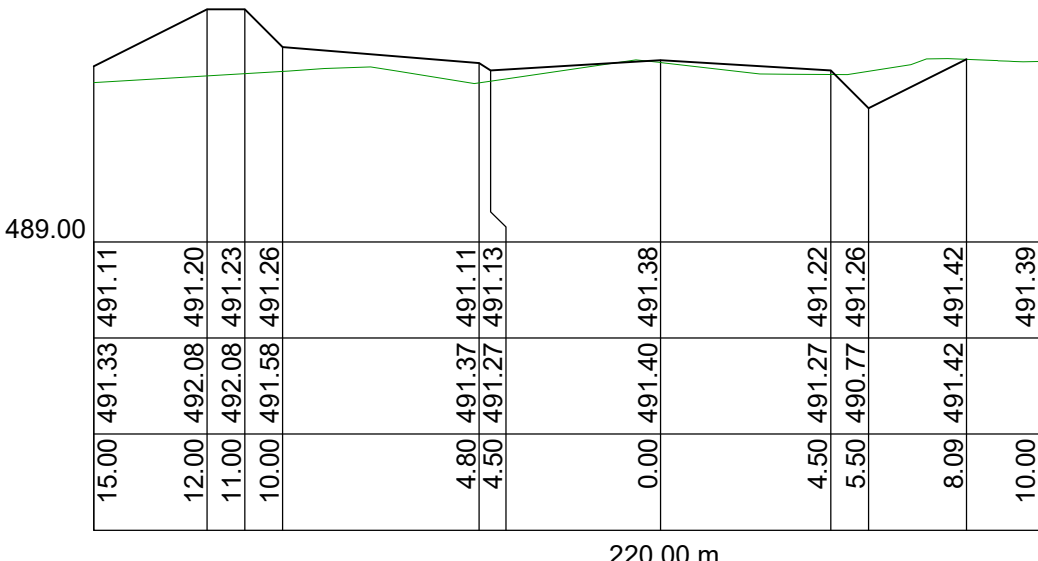
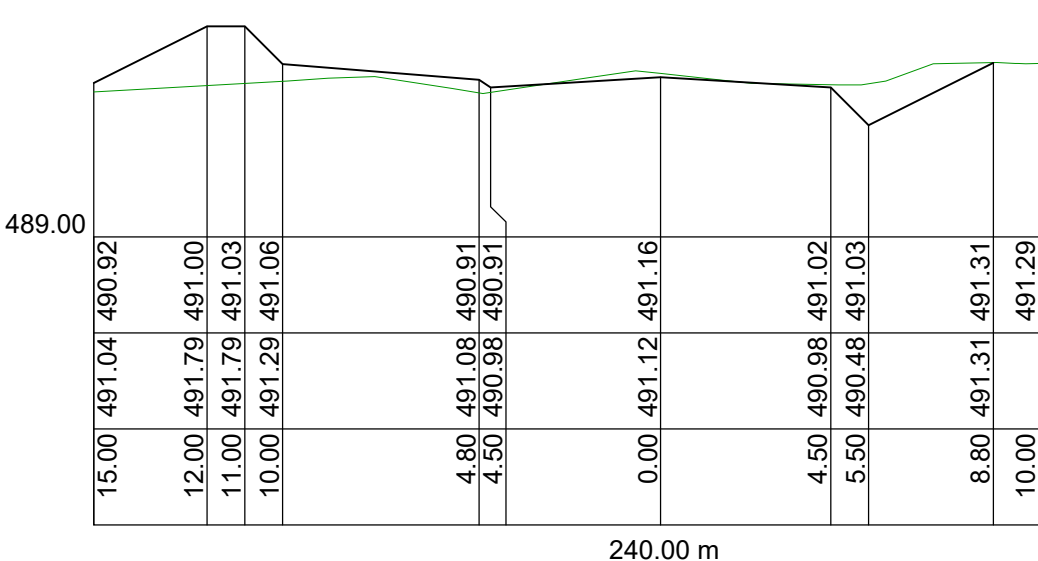
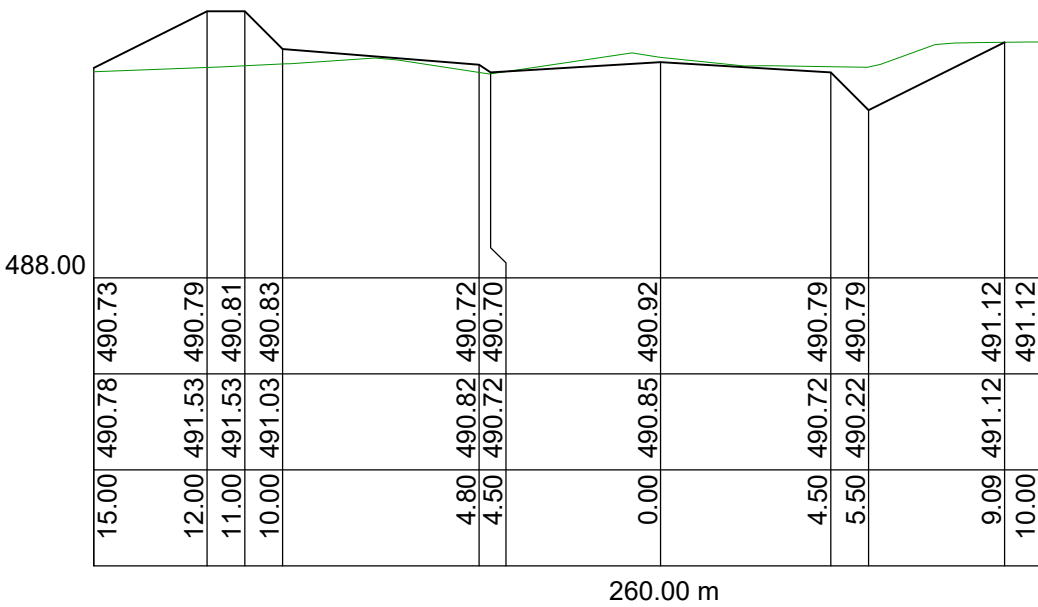
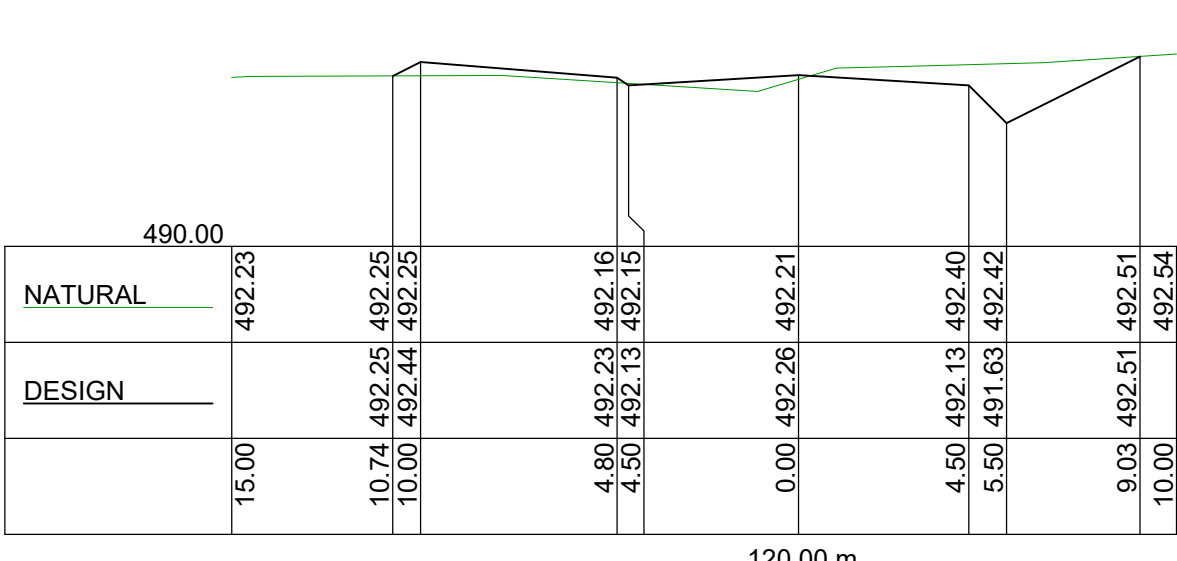
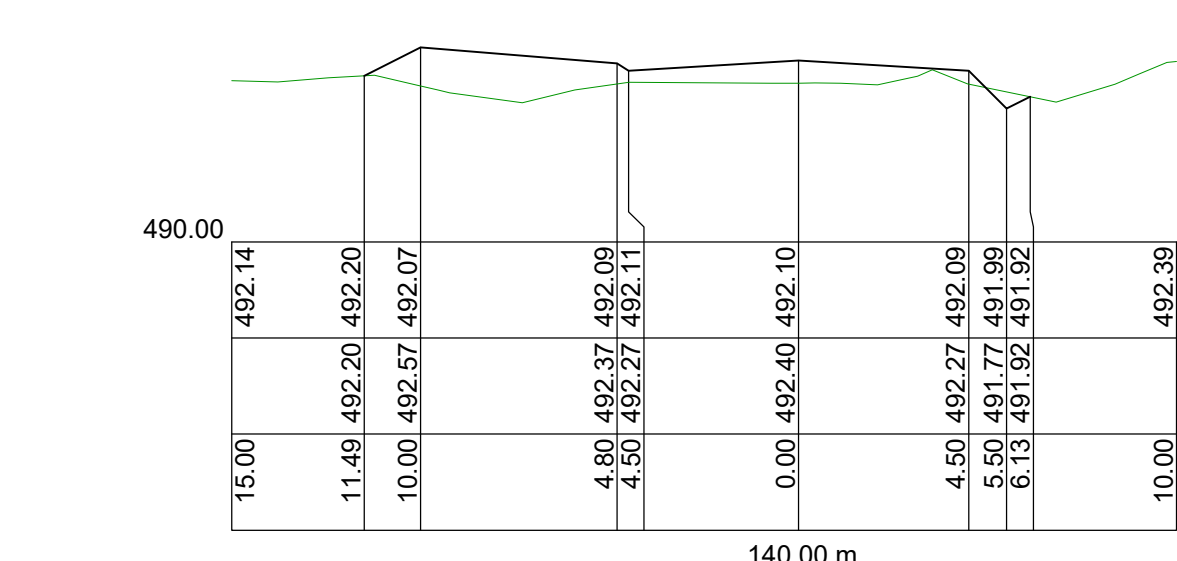
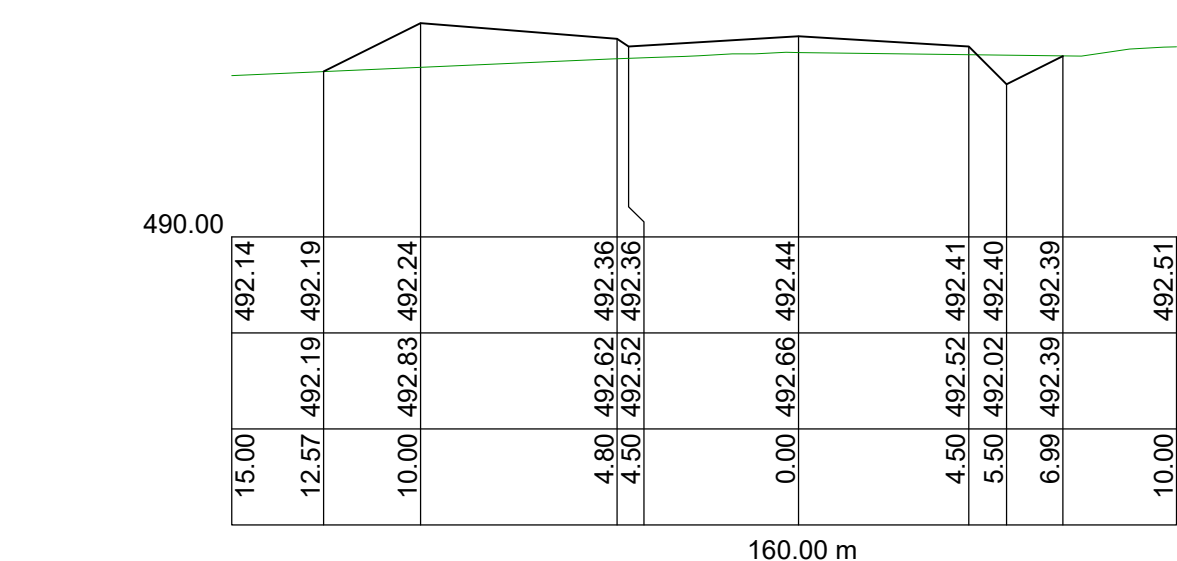
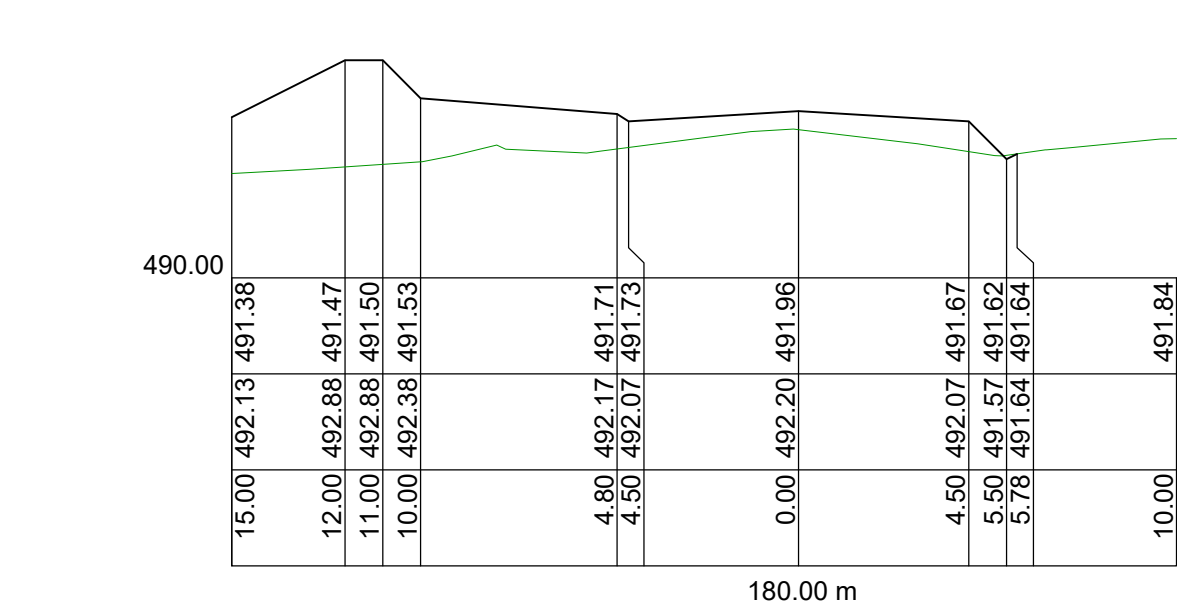
SPRAY SEALED PAVEMENT  
(VEHICULAR)  
SCALE 1:10 AT A1



BRUCE ROAD LONG SECTION  
SCALE 1:500 AT A1 (HORIZONTAL)  
SCALE 1:100 AT A1 (VERTICAL)







## BRUCE ROAD CROSS SECTION

SCALE 1:500 AT A1 (HORIZONTAL)  
SCALE 1:100 AT A1 (VERTICAL)

NOTE:  
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ISSUED FOR 80% DOCUMENTATION  
AMENDMENTS

22.09.20  
DATE

A  
ISSUE

J.L.D.  
BY

ARCHITECT  
**ALLEANZA**  
ARCHITECTURE

CLIENT  
**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEES, NSW, 2850

DESIGNED  
J.L.D.

DRAWN  
J.O.M.

DATE  
MAY '19

SIZE  
A1

CAD REF  
TX13843.00 - C01



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PO BOX 1075, MUDGEES NSW 2850

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DRAWING TITLE  
**BRUCE ROAD CROSS SECTION - SHEET 1**

PROJECT No.  
**TX13843.00 - C6.2**

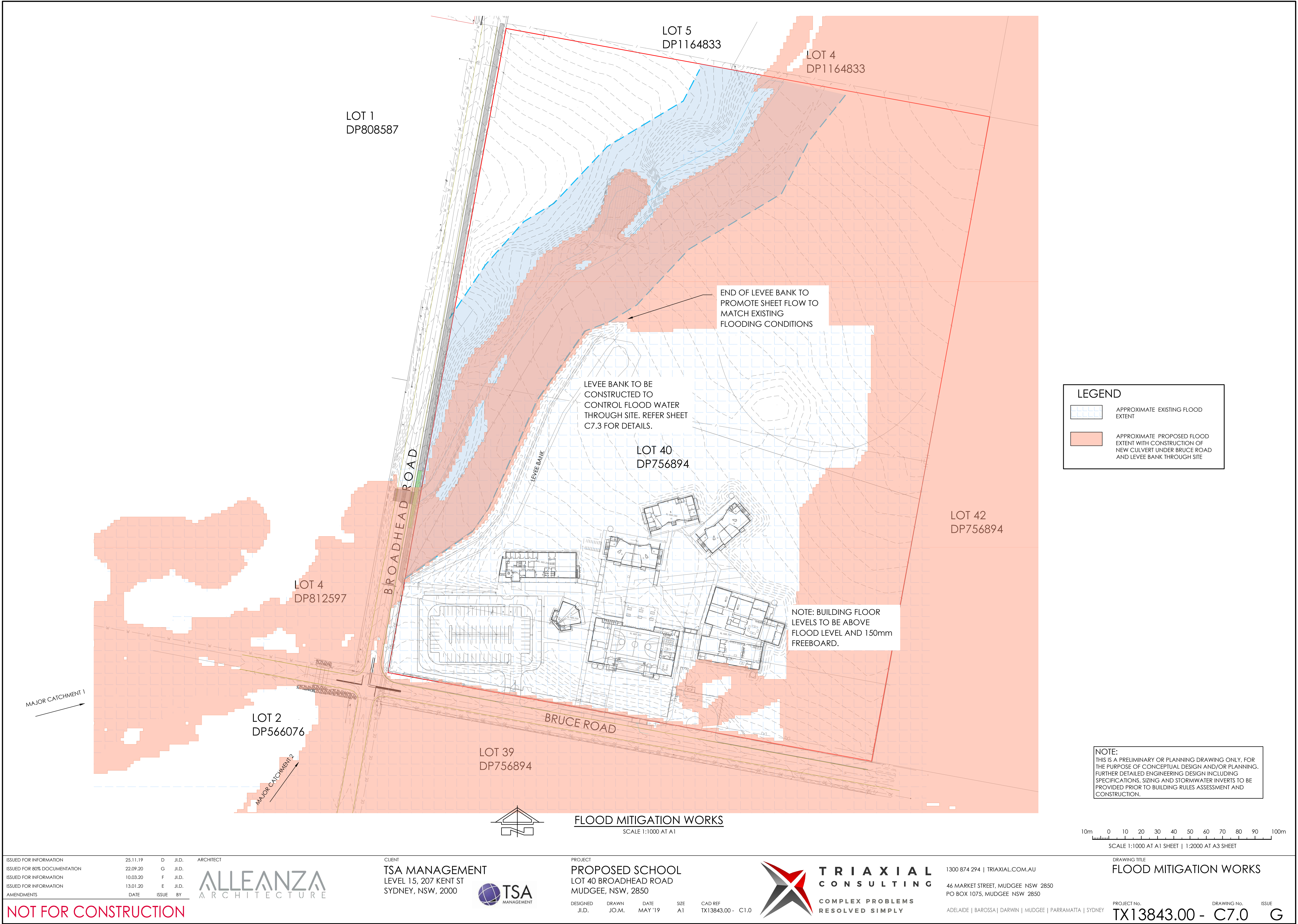
DRAWING No.

ISSUE

A

NOT FOR CONSTRUCTION





ISSUED FOR INFORMATION	25.11.19	D	J.L.D.
ISSUED FOR 80% DOCUMENTATION	22.09.20	G	J.L.D.
ISSUED FOR INFORMATION	10.03.20	F	J.L.D.
ISSUED FOR INFORMATION	13.01.20	E	J.L.D.
AMENDMENTS	DATE	ISSUE	BY

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ARCHITECT  
**ALLEANZA**  
ARCHITECTURE

CLIENT  
**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEES, NSW, 2850

DESIGNED J.L.D.	DRAWN J.O.M.	DATE MAY '19	SIZE A1	CAD REF TX13843.00 - C1.0
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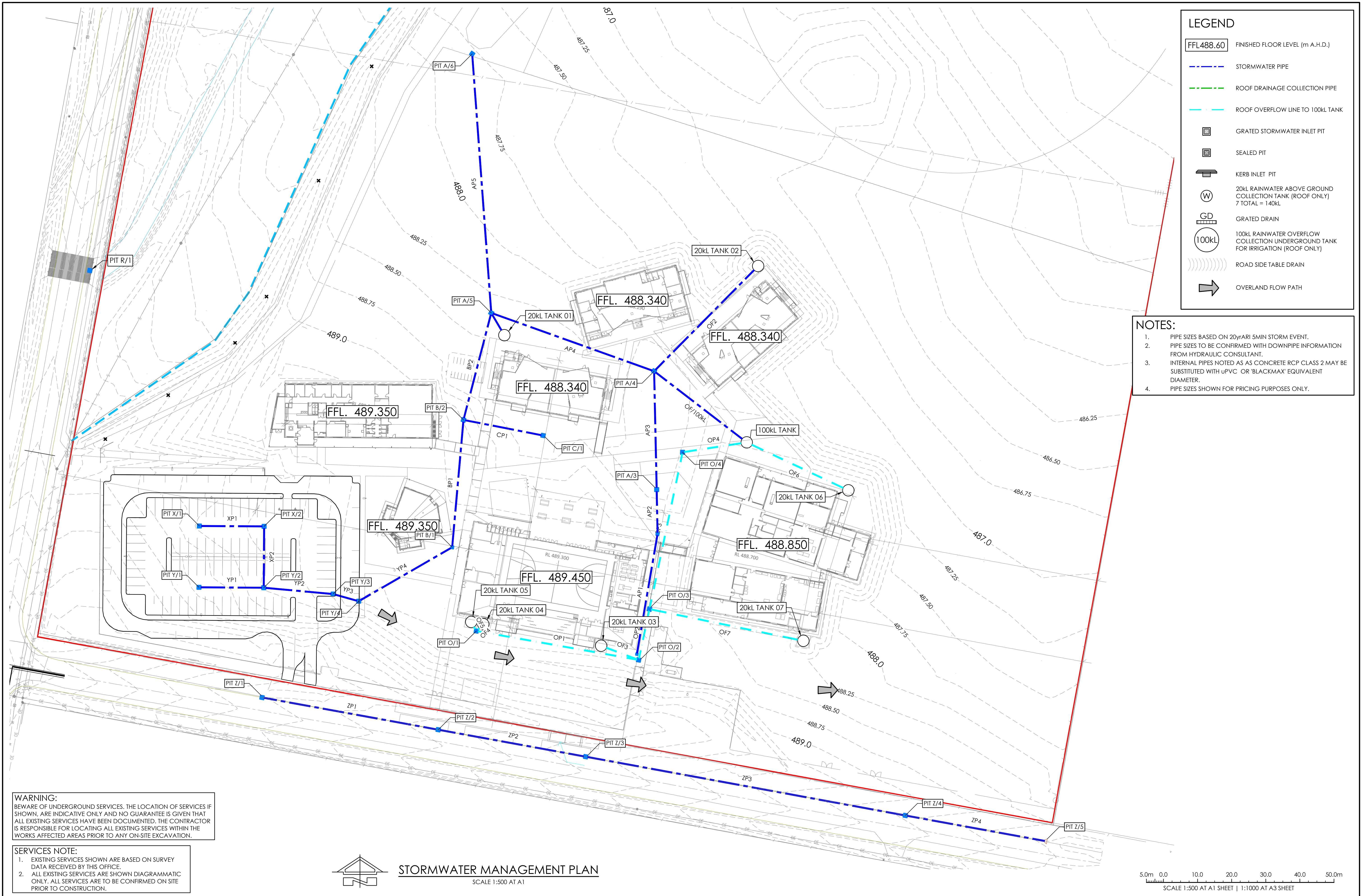
DRAWING TITLE  
**FLOOD MITIGATION WORKS**

PROJECT No.  
**TX13843.00 - C7.0**

DRAWING No.  
**G**

ISSUE  
**G**





**LEGEND**

FFL488.60 FINISHED FLOOR LEVEL (m A.H.D.)

--- STORMWATER PIPE

--- ROOF DRAINAGE COLLECTION PIPE

--- ROOF OVERFLOW LINE TO 100KL TANK

GRATED STORMWATER INLET PIT

SEALED PIT

KERB INLET PIT

20kL RAINWATER ABOVE GROUND COLLECTION TANK (ROOF ONLY)  
7 TOTAL = 140kL

GRATED DRAIN

100kL RAINWATER OVERFLOW COLLECTION UNDERGROUND TANK FOR IRRIGATION (ROOF ONLY)

ROAD SIDE TABLE DRAIN

OVERLAND FLOW PATH

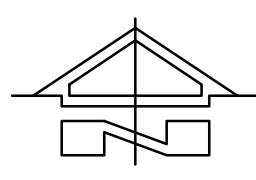
**NOTES:**

- PIPE SIZES BASED ON 20yrARI 5MIN STORM EVENT.
- PIPE SIZES TO BE CONFIRMED WITH DOWNPIPE INFORMATION FROM HYDRAULIC CONSULTANT.
- INTERNAL PIPES NOTED AS AS CONCRETE RCP CLASS 2 MAY BE SUBSTITUTED WITH uPVC OR 'BLACKMAX' EQUIVALENT DIAMETER.
- PIPE SIZES SHOWN FOR PRICING PURPOSES ONLY.

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**STORMWATER MANAGEMENT PLAN**  
SCALE 1:500 AT A1

CLIENT  
**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEES, NSW, 2850



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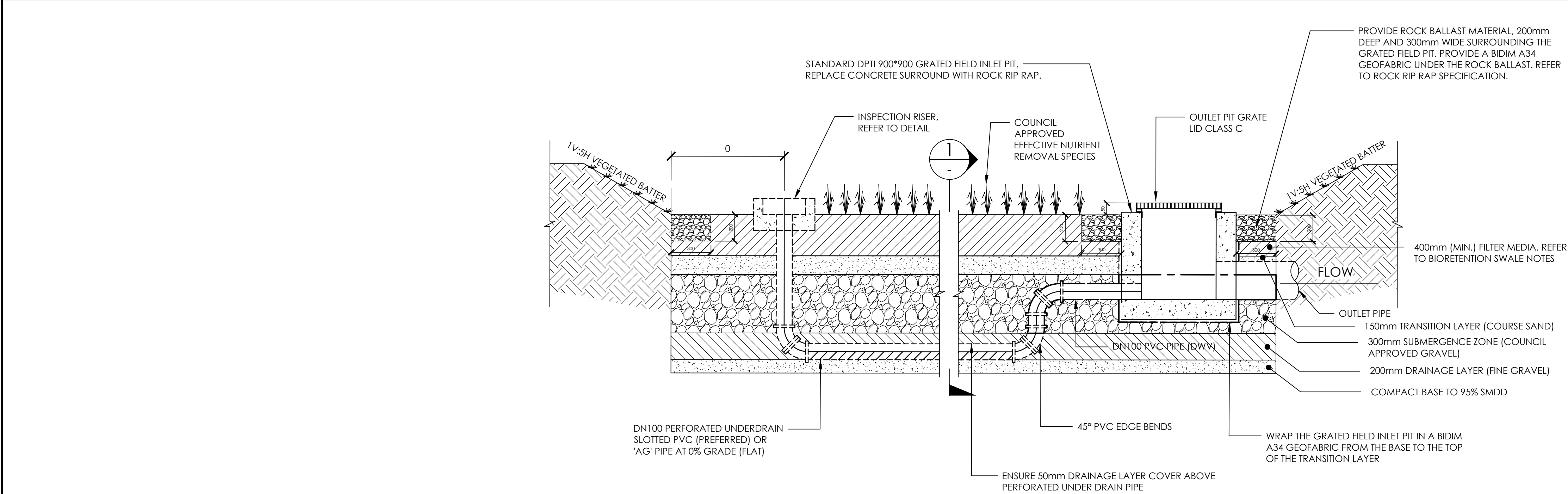
DRAWING TITLE  
**STORMWATER MANAGEMENT PLAN**

PROJECT No. **TX13843.00 - C7.1**  
DRAWING No. **C7.1**  
ISSUE **H**

ISSUED FOR 80% DOCUMENTATION	22.09.20	H	JLD.	ARCHITECT
ISSUED FOR INFORMATION	10.03.20	G	JLD.	
ISSUED FOR INFORMATION	18.12.19	F	JLD.	
ISSUED FOR INFORMATION	25.11.19	E	JLD.	
AMENDMENTS	DATE	ISSUE	BY	

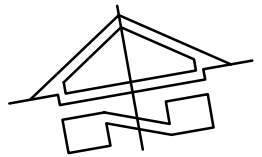
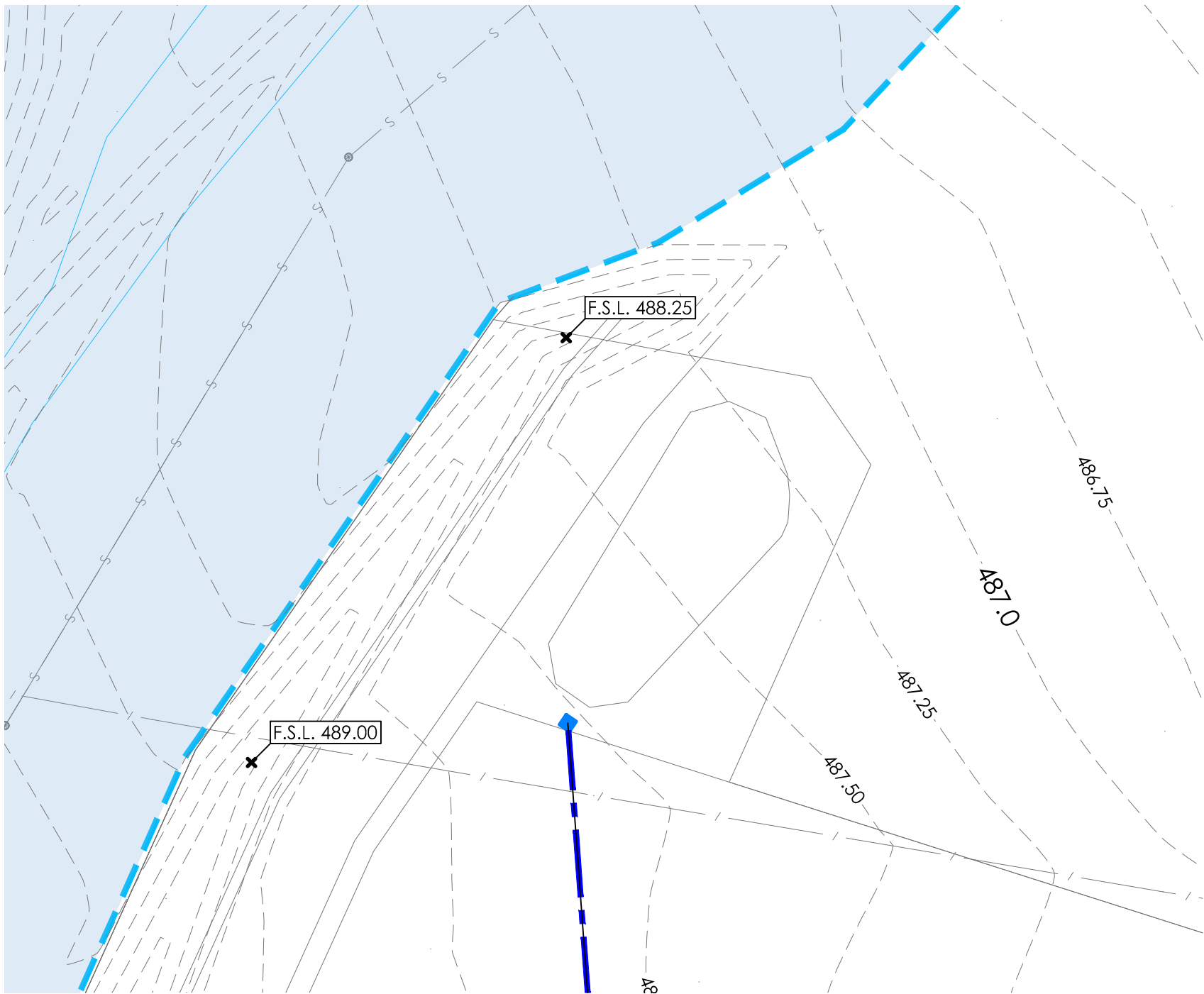
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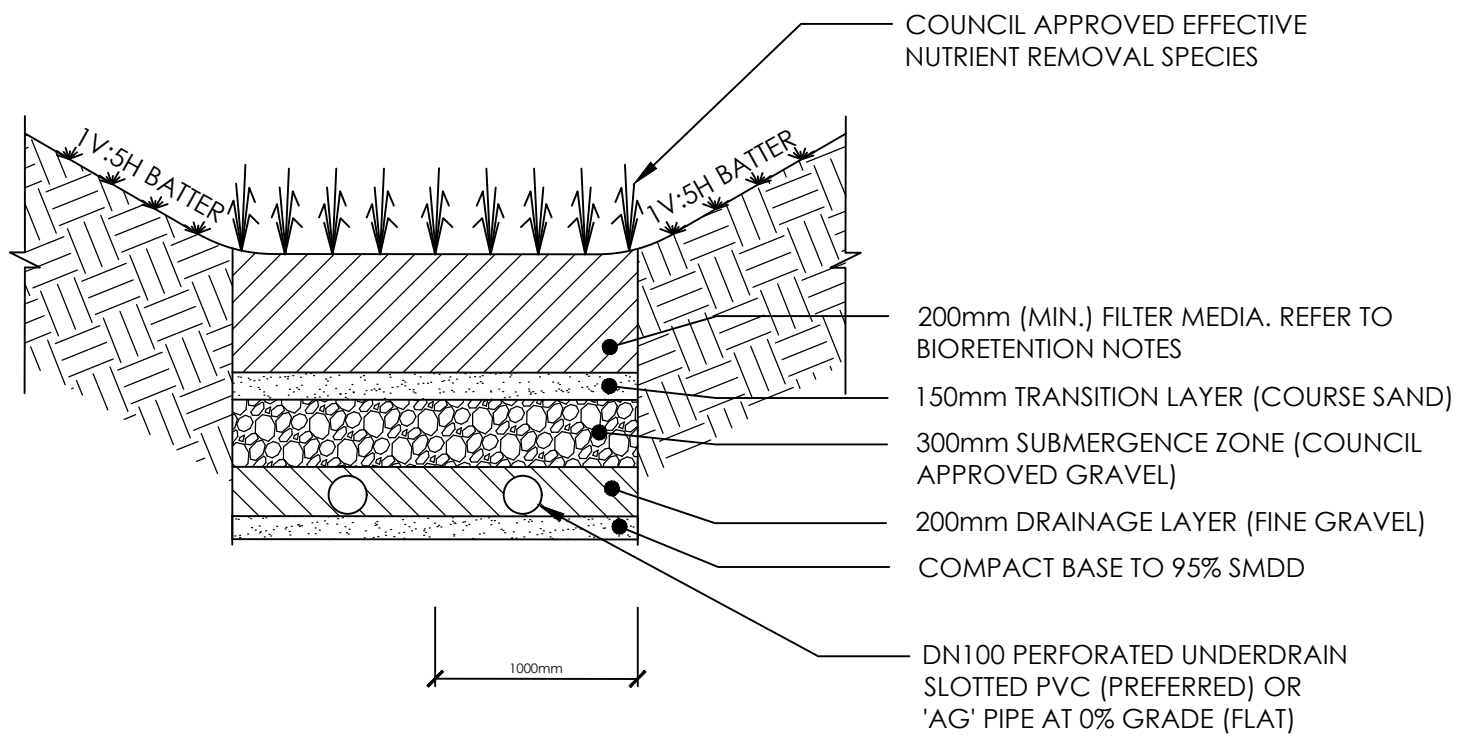
TYPICAL BIORETENTION SWALE  
LONGITUDINAL SECTION

N.T.S.



O.S.D. BASIN & BIOSWALE DETAIL

SCALE 1:500 AT A1



CROSS SECTION

N.T.S.

## BIORETENTION BASIN NOTES:

FOR PLANTING AND MIX SPECIFICATION REFER LANDSCAPING SCHEDULE

### FILTER MEDIA (TOP LAYER)

THE FILTER MEDIA LAYER SHALL BE PLACED IN LIFTS NOT EXCEEDING 150mm. THE FILTER MEDIA LAYER SHALL CONSIST OF MIN. 400mm (SUBJECT TO OUTLET INVERTLEVEL CONSTRAINTS) SANDY LOAM/LOAMY SAND AND SHALL HAVE:

- TOTAL NITROGEN (TN) CONTENT < 1000mg/kg;
- ORTHOPHOSPHATE (PO<sub>4</sub>) CONTENT < 80mg/Kg;
- ORGANIC MATTER CONTENT MUSTBE AT LEATS 3-5% (W/W);
- LOW NUTRIENT ORGANIC MATTER;
- PH MODIFIED TO BETWEEN 5.5 AND 7.5 (PH 1:5 IN WATER);
- ELECTRICAL CONDUCTIVITY (EC) < 1.2 DS/M;
- TOTAL CLAY AND SILT MIX < 3% (W/W);
- WELL GRADED MATERIAL, BETWEEN 0.075mm - 4.74mm WITH NO GAPS (AS 1289.6.6.1 - 1995);
- LIGHT COMPACTION - SINGLE PASS WITH ROLLER MACHINERY (E.G. 1 TONNE DRUM ROLLER);
- SATURATED HYDRAULIC CONDUCTIVITY WITHIN THE RANGE OF 180 TO 400mm/HR ONCE COMPACTED.

COMPOST USED IN FILTER MEDIA LAYER SHALL CONFIRM TO THE DESCRIPTION OF COMPOSTS, SOIL CONDITIONERS AND MULCHES DESCRIBED IN AS 4454

### TRANSITION LAYER

THE TRANSITION LAYER SHALL BE 150mm THICK, CLEAN, COURSE SAND AND SHALL CONFORM TO THE FOLLOWING:

- TRANSITION LAYER < 2% FINES
- WELL GRADED MATERIAL, BETWEEN 0.074 - 4.74mm WITH NO GAPS (AS 1298.6.6.1 - 1995);
- d (TRANSITION LAYER) < 5 \* d (FILTER MEDIA) BY SIEVE ANALYSIS.

### SUBMERGENCE ZONE

THE SUBMERGENCE ZONE SHALL BE 450mm THICK, CLEAN, FINE GRAVEL AND SHALL CONFORM TO THE FOLLOWING:

- GRAVEL AND CARBON SOURCE;
- GRAVEL: 2mm < d < 6mm WASHED SCREENINGS (d REFERS TO MEAN GRAVEL SIZE)
- CARBON SOURCE CONSISTS OF 5% VOLUME OF CARBON (E.G. UNTREATED HARDWOOD CHIPS) AND 5% VOLUME OF UNTREATED MULCH (E.G. SUGARCANE MULCH);
- COMPOSITION SHALL BE CHEMICALLY TREATED.

### DRAINAGE LAYER

THE DRAINAGE LAYER SHALL BE 200mm THICK, CLEAN, FINE GRAVEL AND SHALL CONFORM TO THE FOLLOWING:

- d (DRAINAGE LAYER) < 5 \* d (TRANSITION LAYER) BY SIEVE ANALYSIS;
  - d (TRANSITION LAYER) < PERFORATION IN UNDERDRAIN PIPE;
  - FINE GRAVEL: 2mm < d < 6mm WASHED SCREENING, WHERE d REFERS TO MEAN GRAVEL SIZE;
  - GEOFABRIC IS NOT RECOMMENDED TO COVER LAYER DUE TO CLOGGING, BUT OPEN-WEAVE SHADE CLOTH CAN BE USED IF REQUIRED.
- THE DRAINAGE LAYER SHALL EXTEND TO 50mm ABOVE THE PERFORATED PVC PIPE.

### TOLERANCES

CONSTRUCT THE WORKS TO UNIFORM GRADES AND IN CONFORMANCE WITH THE DRAWINGS. FINISH EARTHWORKS TO A SMOOTH UNIFORM SURFACE CONFORMING TO THE FOLLOWING TOLERANCES:

- BASE LEVEL ±50mm;
- BATTERS ±50mm;
- UNDERDRAIN ±15mm;
- HYDRAULIC STRUCTURES ±15mm;
- SURFACE LEVEL AND LAYER LEVELS ±20mm.

THE BASE OF SWALES SHALL BE SELF-DRAINING AND FREE OF DEPRESSIONS CAPABLE OF HOLDING WATER

### DEWATERING

MAINTAIN EXCAVATIONS, EMBANKMENTS AND FILLED AREAS FREE FROM WATER AT ALL TIMES. IMMEDIATELY BEFORE PLACING ANY MEMBRANE OR BIORETENTION MATERIALS, REMOVE ALL FREE WATER AND FOREIGN MATTER FROM THE BASE. PREVENT ANY WATER FLOW OVER NEW WORK UNTIL IT IS CAPABLE OF WITHSTANDING SUCH FLOW WITHOUT DAMAGE. DISPOSE OF WATER AND MATERIALS LEGALLY.

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ISSUED FOR INFORMATION 10.03.20 B J.L.D.  
ISSUED FOR INFORMATION 18.11.19 A J.L.D.  
AMENDMENTS DATE ISSUE BY

ARCHITECT

ALLEANZA  
ARCHITECTURE

CLIENT

TSA MANAGEMENT  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT

PROPOSED SCHOOL  
LOT 40 BROADHEAD ROAD  
MUDGEE, NSW, 2850

DESIGNED J.L.D. DRAWN J.O.M. DATE MAY '19 SIZE A1 CAD REF TX13843.00 - C1.0



TRIAXIAL  
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DRAWING TITLE

BIO FILTRATION SWALE DETAILS

PROJECT No.

TX13843.00 - C7.2

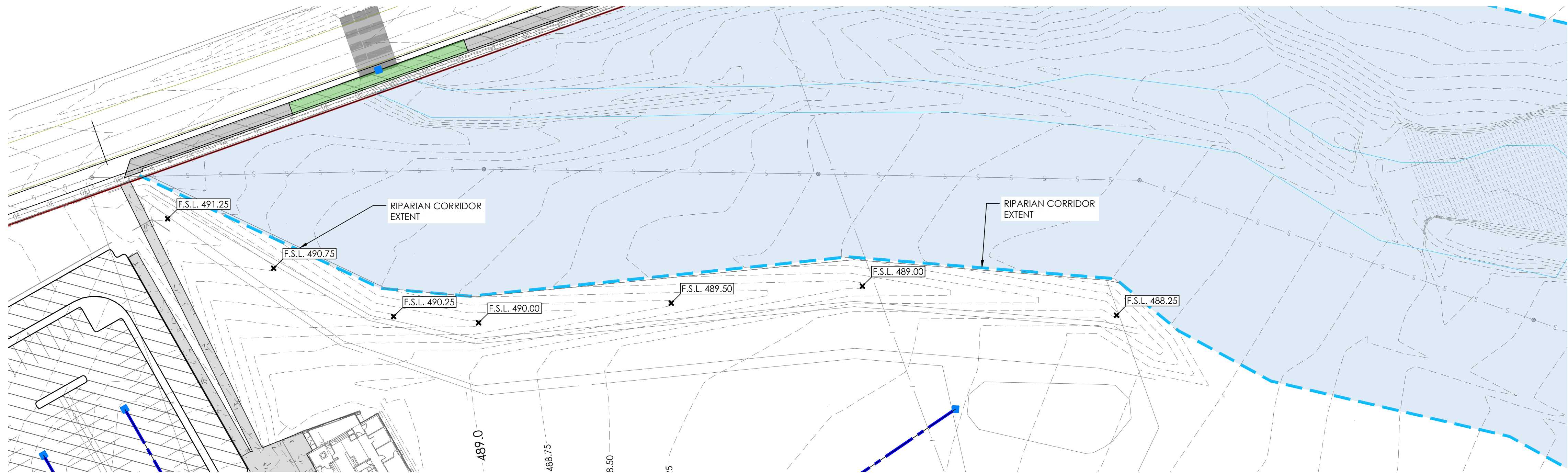
DRAWING No.

ISSUE

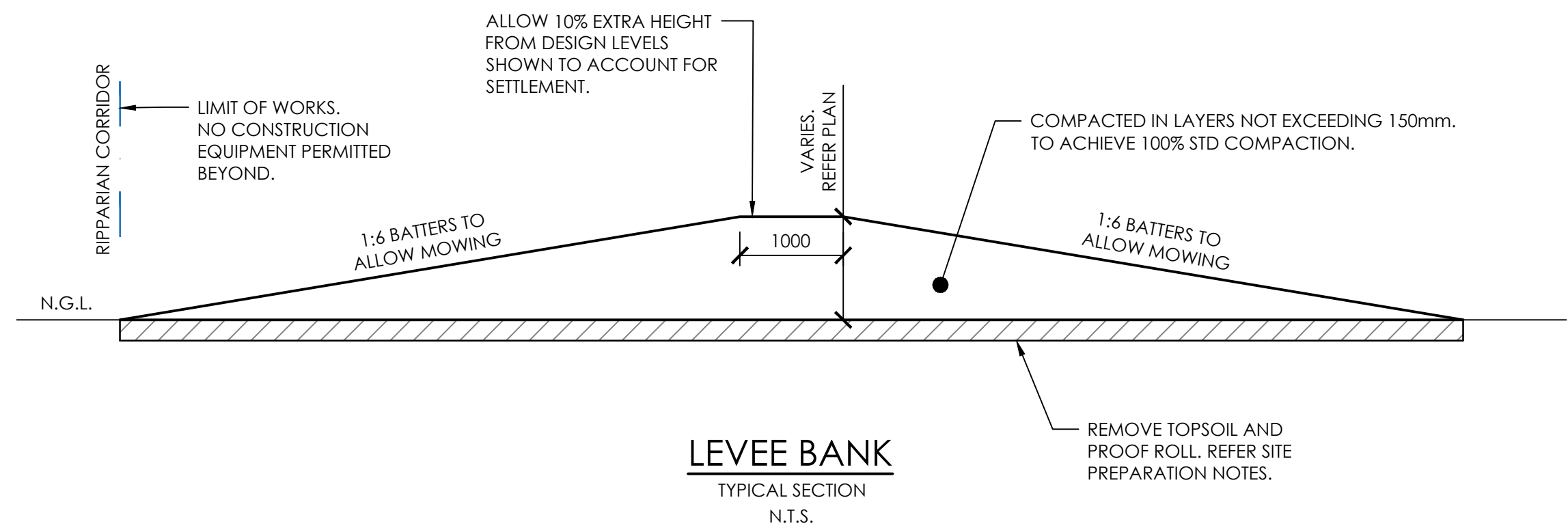
B

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**LEVEE BANK PLAN**  
SCALE 1:500 AT A1



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ISSUED FOR 80% DOCUMENTATION  
AMENDMENTS

22.09.20 A J.L.D.  
DATE ISSUE BY

ARCHITECT  
**ALLEANZA**  
ARCHITECTURE

CLIENT  
**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEE, NSW, 2850

DESIGNED J.L.D. DRAWN J.O.M. DATE MAY '19 SIZE A1 CAD REF TX13843.00 - C1.0



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DRAWING TITLE  
**LEVEE BANK**

PROJECT No.  
**TX13843.00 - C7.3**

DRAWING No.  
**A**

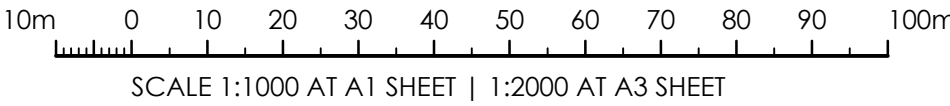
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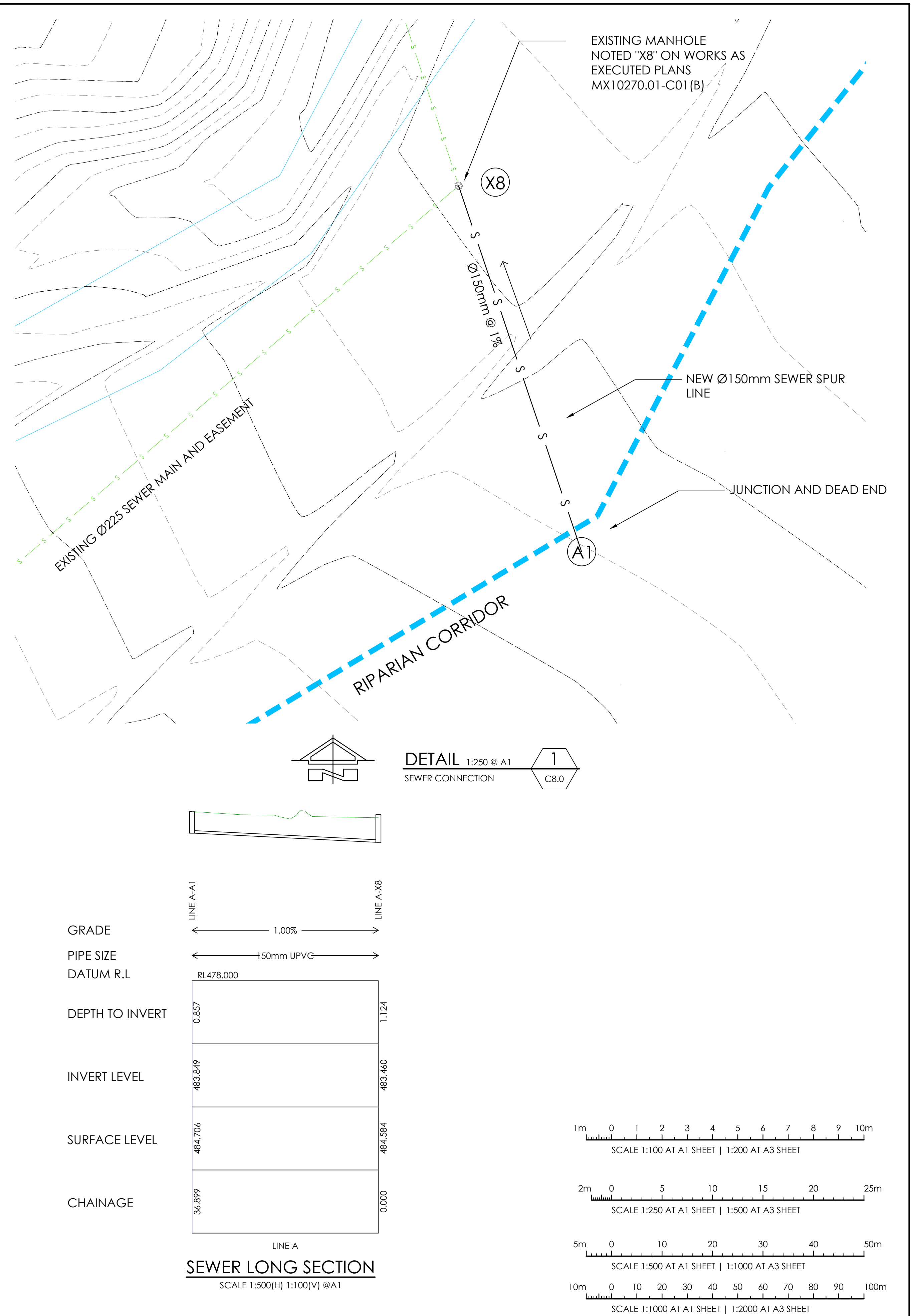
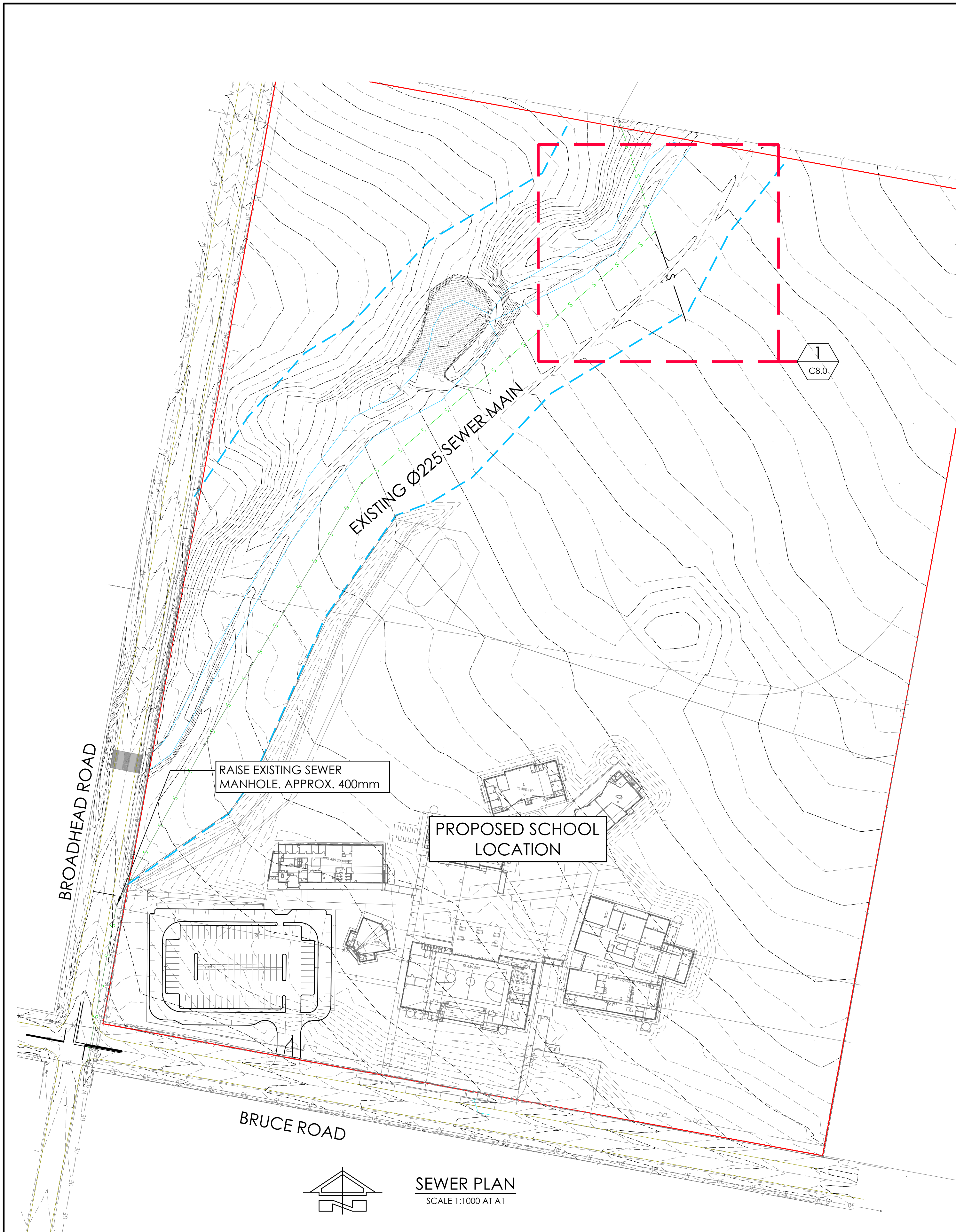
PIT SCHEDULE FOR: Network 1 (1)					
PIT NAME	DESCRIPTION	PIT TYPE	SETOUT COORDS	PIT FIN RL	PIT DEPTH [m]
20KL TANK 01	20KL TANK	Reinforced Concrete	E: 743787.508 N: 6387766.640	488.300	0.754
20KL TANK 02	20KL TANK	Reinforced Concrete	E: 743861.956 N: 6387786.940	488.300	0.943
20KL TANK 03	20KL TANK	Reinforced Concrete	E: 743815.887 N: 6387675.511	489.450	2.071
20KL TANK 04	20KL TANK	Reinforced Concrete	E: 743781.334 N: 6387681.850	489.450	0.947
20KL TANK 05	20KL TANK	Reinforced Concrete	E: 743777.793 N: 6387682.500	489.426	0.943
20KL TANK 06	20KL TANK	Reinforced Concrete	E: 743888.406 N: 6387721.116	488.833	0.926
20KL TANK 07	20KL TANK	Reinforced Concrete	E: 743875.219 N: 6387676.953	488.800	0.940
100KL TANK	100KL TANK	Reinforced Concrete	E: 743858.602 N: 6387735.188	488.714	1.709
A/1	JP 450 x 450	Reinforced Concrete	E: 743826.381 N: 6387673.037	489.424	0.721
A/2	JP 600 x 600	Reinforced Concrete	E: 743832.459 N: 6387708.303	489.055	1.041
A/3	GIP 900 x 900	Reinforced Concrete	E: 743832.199 N: 6387721.348	488.099	0.702
A/4	GIP 900 x 900	Reinforced Concrete	E: 743831.448 N: 6387756.080	488.050	1.044
A/5	JP 1200 x 1200	Reinforced Concrete	E: 743783.677 N: 6387773.172	488.355	1.419
A/6	OUTLET PIT	Reinforced Concrete	E: 743778.087 N: 6387849.182	487.776	1.204
B/1	JP 600 x 600	Reinforced Concrete	E: 743772.220 N: 6387704.409	489.392	1.267
B/2	GIP 600 x 600	Reinforced Concrete	E: 743775.537 N: 6387741.778	488.968	1.433
C/1	GIP 600 x 600	Reinforced Concrete	E: 743798.887 N: 6387737.211	488.250	0.594
O/1	JP 900 x 900	Reinforced Concrete	E: 743779.309 N: 6387679.847	489.358	0.988
O/2	JP 900 x 900	Reinforced Concrete	E: 743826.917 N: 6387671.350	489.410	2.618
O/3	JP 900 x 900	Reinforced Concrete	E: 743830.096 N: 6387686.268	489.229	3.286
O/4	JP 900 x 900	Reinforced Concrete	E: 743839.793 N: 6387732.287	488.284	0.774
R/1	SAG 2.4m LINTEL	Reinforced Concrete	E: 743665.954 N: 6387785.606	490.929	1.400
X/1	900 x 900 Cess pit	Reinforced Concrete	E: 743698.072 N: 6387710.660	489.932	0.560
X/2	900 x 900 Cess pit	Reinforced Concrete	E: 743717.071 N: 6387710.542	489.569	0.562
Y/1	900 x 900 Cess pit	Reinforced Concrete	E: 743697.961 N: 6387692.660	490.390	0.710
Y/2	900 x 900 Cess pit	Reinforced Concrete	E: 743716.961 N: 6387692.543	489.722	0.805
Y/3	900 x 900 Cess pit	Reinforced Concrete	E: 743737.299 N: 6387690.687	489.298	0.785
Y/4	900 x 900 Cess pit	Reinforced Concrete	E: 743744.817 N: 6387688.589	489.099	0.786
Z/1	KIP 900 x 900	Reinforced Concrete	E: 743716.447 N: 6387660.338	491.001	1.043
Z/2	V-PIT 900 x 900	Reinforced Concrete	E: 743768.135 N: 6387650.884	490.390	1.320
Z/3	VPIT 900 x 900	Reinforced Concrete	E: 743811.377 N: 6387642.967	489.860	1.230
Z/4	KIP 900 x 900	Reinforced Concrete	E: 743905.137 N: 6387625.719	488.712	1.111
Z/5	HEADWALL	Reinforced Concrete	E: 743946.031 N: 6387618.236	488.029	0.767

PIPE SCHEDULE FOR: Network 1 (1)								
NAME	PIPE TYPE	PIPE Ø [mm]	SLOPE	U/S PIT	D/S PIT	U/S INV	D/S INV	COMMENTS
AP1	Reinforced Concrete	Ø 238	1:52	A/1	A/2	488.704	488.01	
AP2	Reinforced Concrete	Ø 238	1:21	A/2	A/3	488.032	487.40	
AP3	Reinforced Concrete	Ø 238	1:200	A/3	A/4	487.397	487.22	
AP4	Reinforced Concrete	Ø 380	1:197	A/4	A/5	487.226	486.97	
AP5	Reinforced Concrete	Ø 500	1:199	A/5	A/6	486.954	486.57	
BP1	Reinforced Concrete	Ø 225	1:63	B/1	B/2	488.126	487.53	
BP2	Reinforced Concrete	Ø 238	1:54	B/2	A/5	487.537	486.94	
CP1	Reinforced Concrete	Ø 238	1:200	C/1	B/2	487.656	487.54	
OF/100KL	Reinforced Concrete	Ø 380	Horizontal	100KL TANK	A/4	487.006	487.01	
OF1	Reinforced Concrete	Ø 238	1:200	20KL TANK 01	A/5	487.546	487.51	
OF2	Reinforced Concrete	Ø 238	1:200	20KL TANK 02	A/4	487.357	487.14	
OF3	Reinforced Concrete	Ø 238	1:20	20KL TANK 03	O/2	487.379	486.79	
OF4	Reinforced Concrete	Ø 238	1:22	20KL TANK 04	O/1	488.503	488.37	
OF5	Reinforced Concrete	Ø 238	1:27	20KL TANK 05	O/1	488.482	488.37	
OF6	Reinforced Concrete	Ø 238	1:198	20KL TANK 06	100KL TANK	487.906	487.74	
OF7	Reinforced Concrete	Ø 238	1:24	20KL TANK 07	O/3	487.860	485.94	
OP1	Reinforced Concrete	Ø 300	1:142	O/1	O/2	488.370	488.03	
OP2	Reinforced Concrete	Ø 300	1:114	O/2	O/3	488.029	487.90	
OP3	Reinforced Concrete	Ø 380	1:122	O/3	O/4	487.895	487.51	
OP4	Reinforced Concrete	Ø 380	1:200	O/4	100KL TANK	487.510	487.41	
XP1	Reinforced Concrete	Ø 225	1:52	X/1	X/2	489.372	489.01	
XP2	Reinforced Concrete	Ø 225	1:200	X/2	Y/2	489.007	488.92	
YP1	Reinforced Concrete	Ø 225	1:28	Y/1	Y/2	489.680	489.01	
YP2	Reinforced Concrete	Ø 300	1:51	Y/2	Y/3	488.917	488.51	
YP3	Reinforced Concrete	Ø 300	1:39	Y/3	Y/4	488.513	488.31	
YP4	Reinforced Concrete	Ø 300	1:168	Y/4	B/1	488.313	488.13	
ZP1	Reinforced Concrete	Ø 375	1:59	Z/1	Z/2	489.958	489.07	
ZP2	Reinforced Concrete	Ø 375	1:100	Z/2	Z/3	489.070	488.63	
ZP3	Reinforced Concrete	Ø 375	1:93	Z/3	Z/4	488.630	487.60	
ZP4	Reinforced Concrete	Ø 375	1:96	Z/4	Z/5	487.601	487.17	

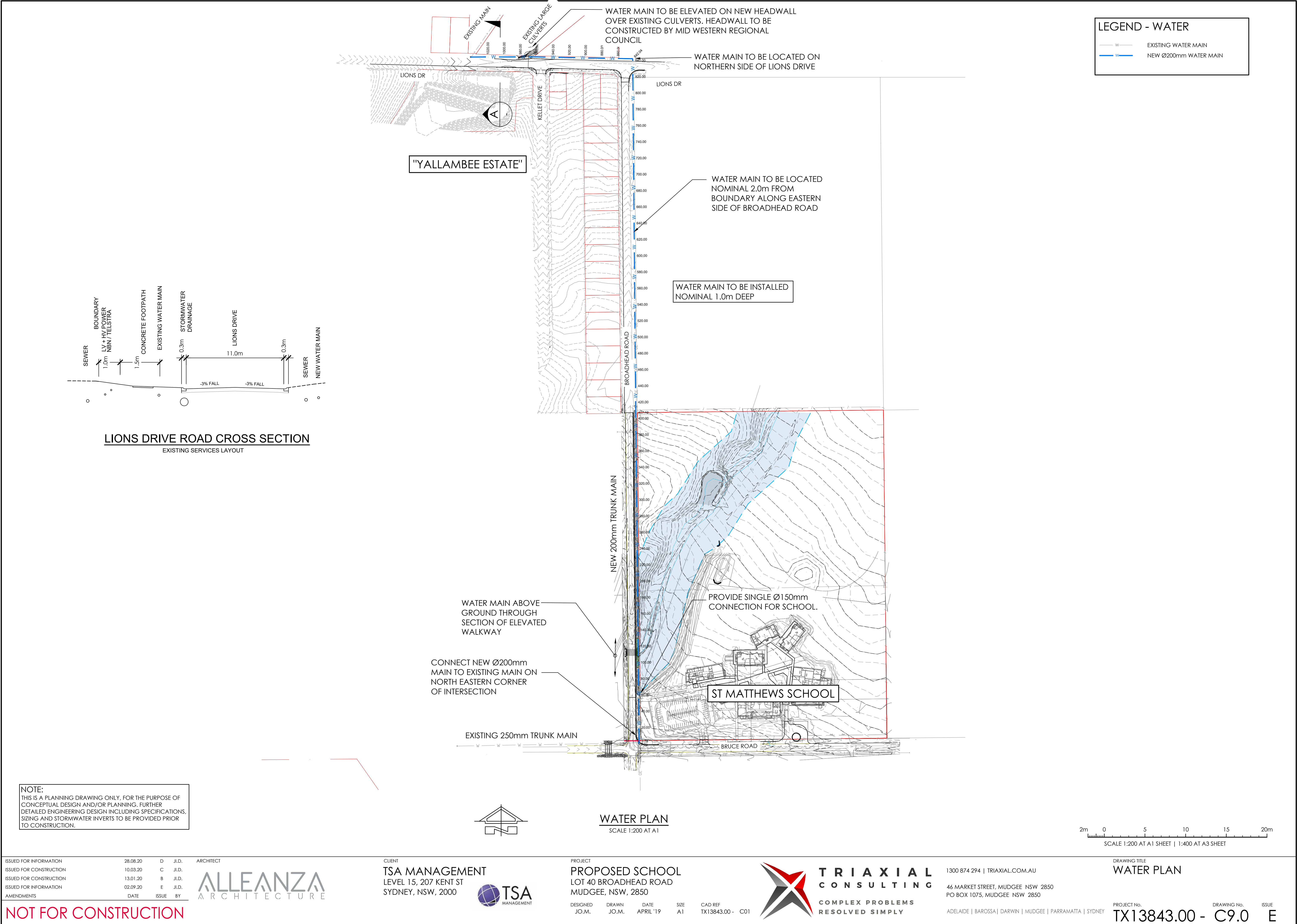
NOTE:  
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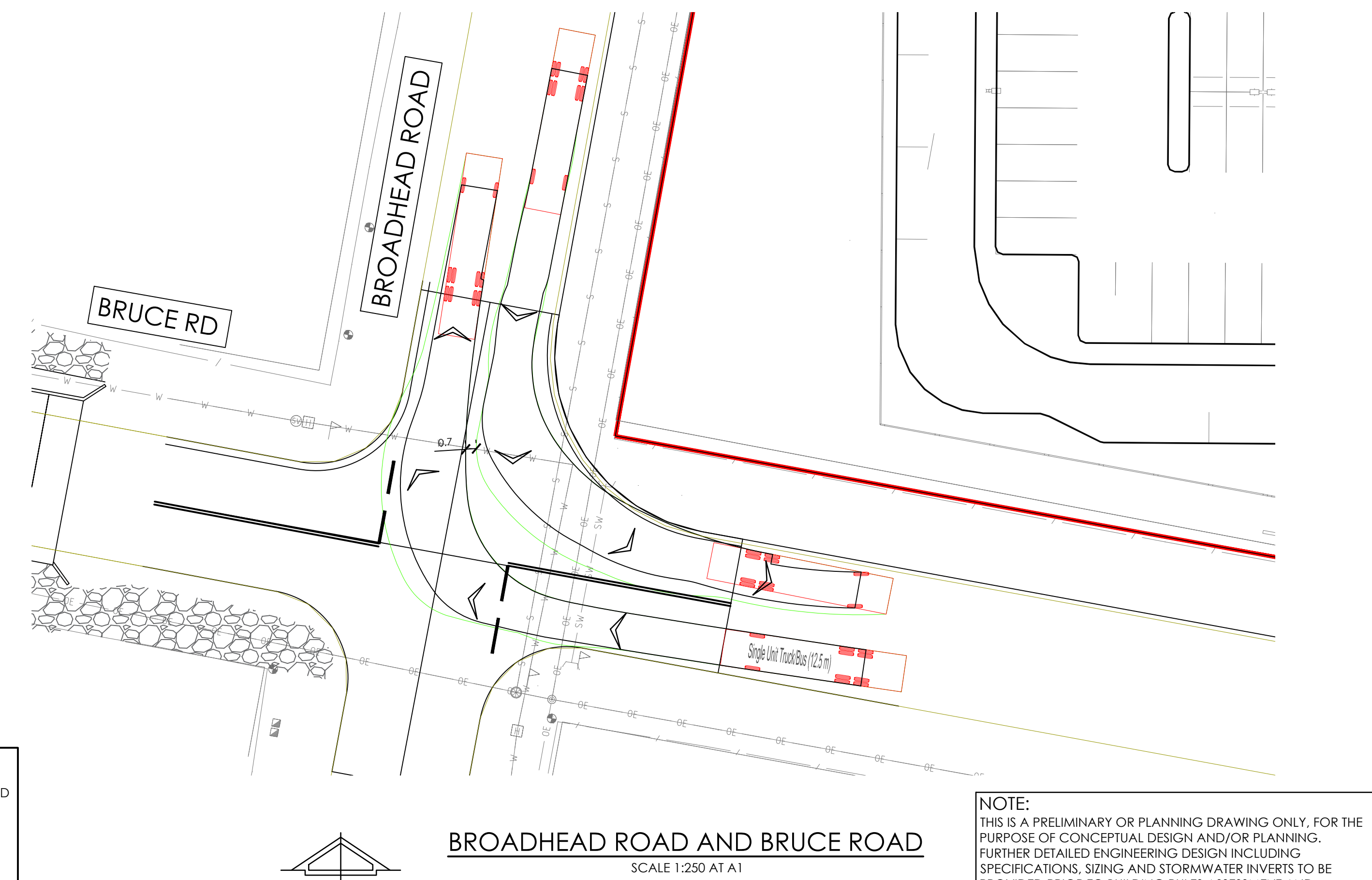
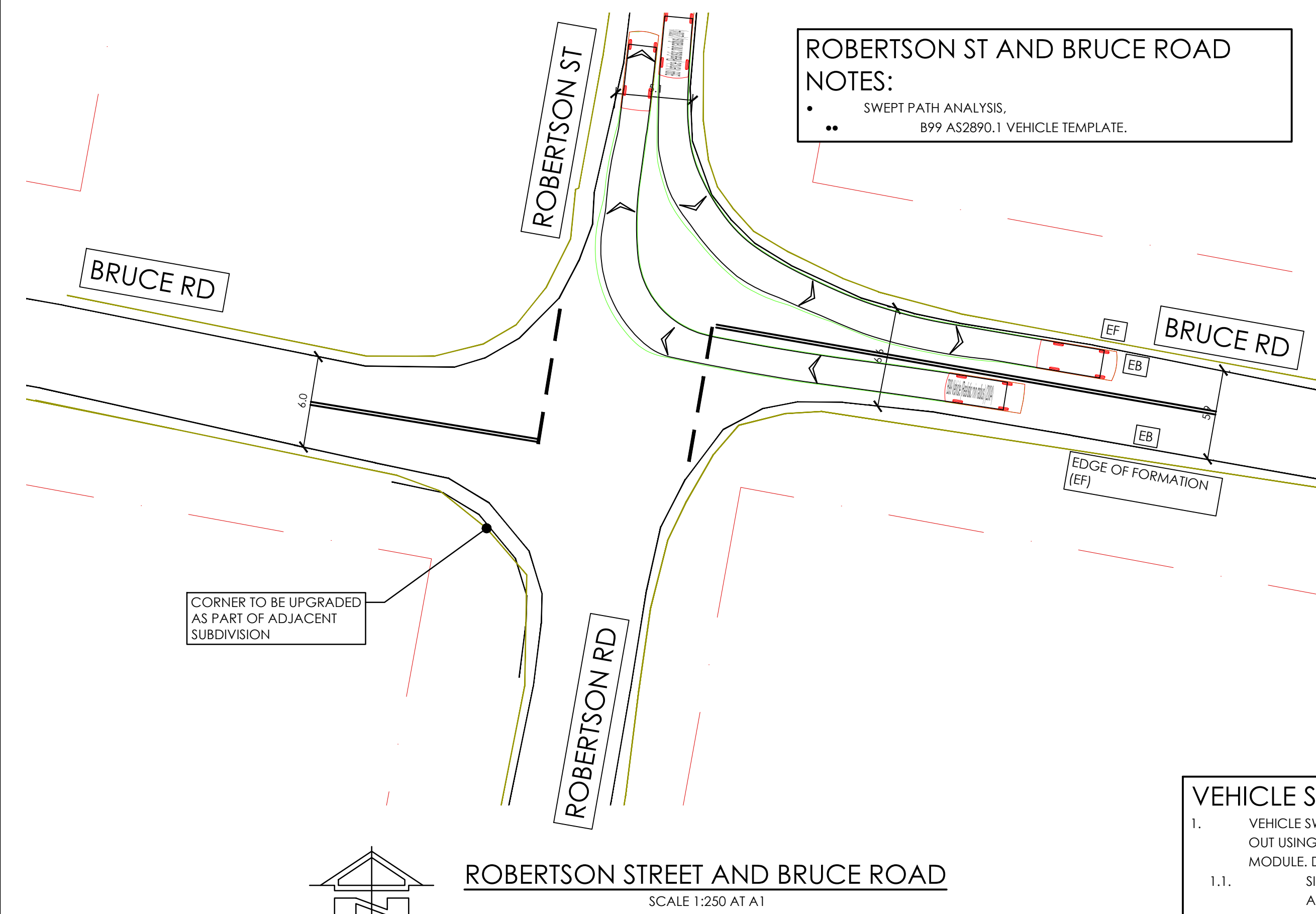
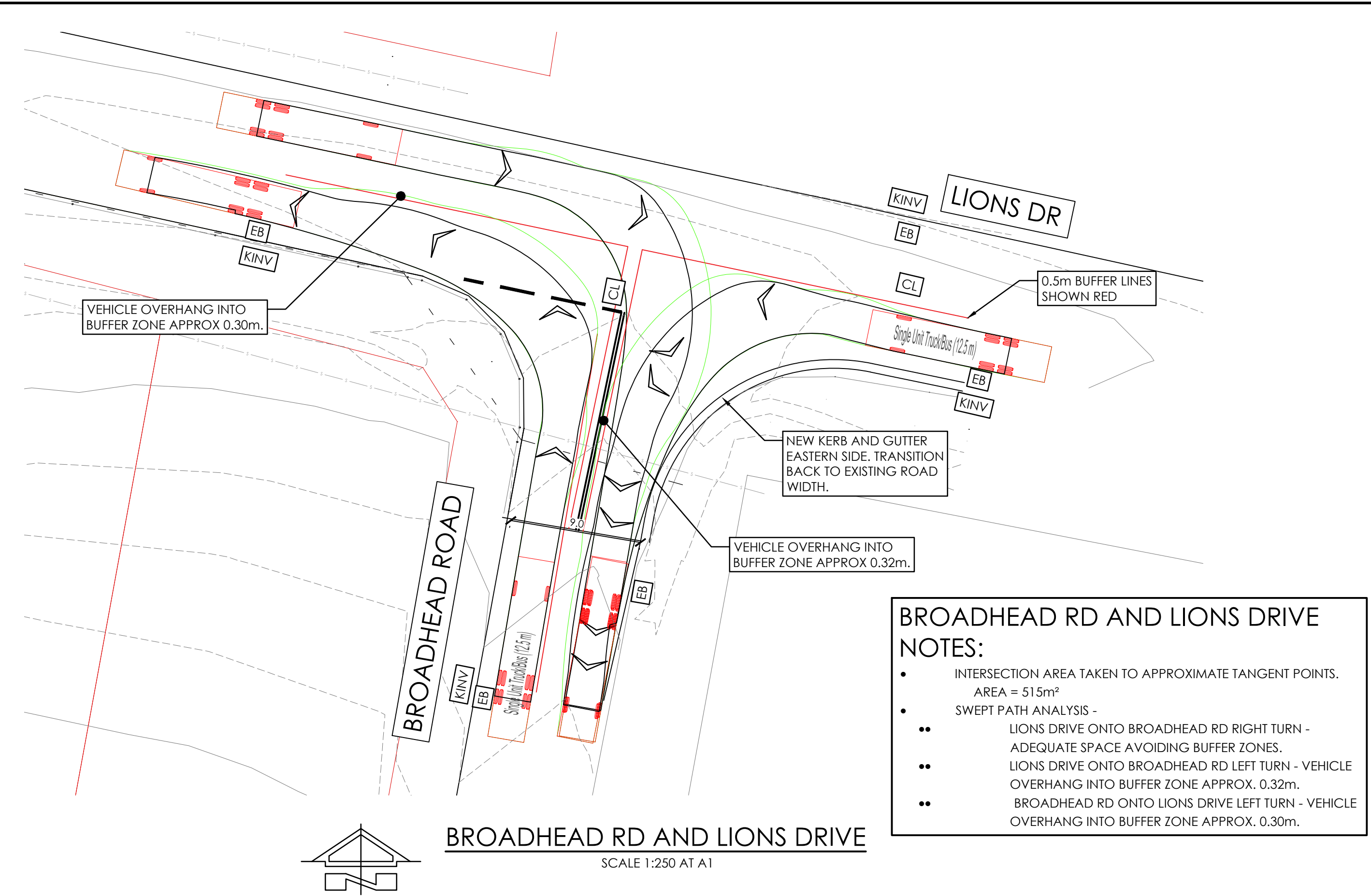
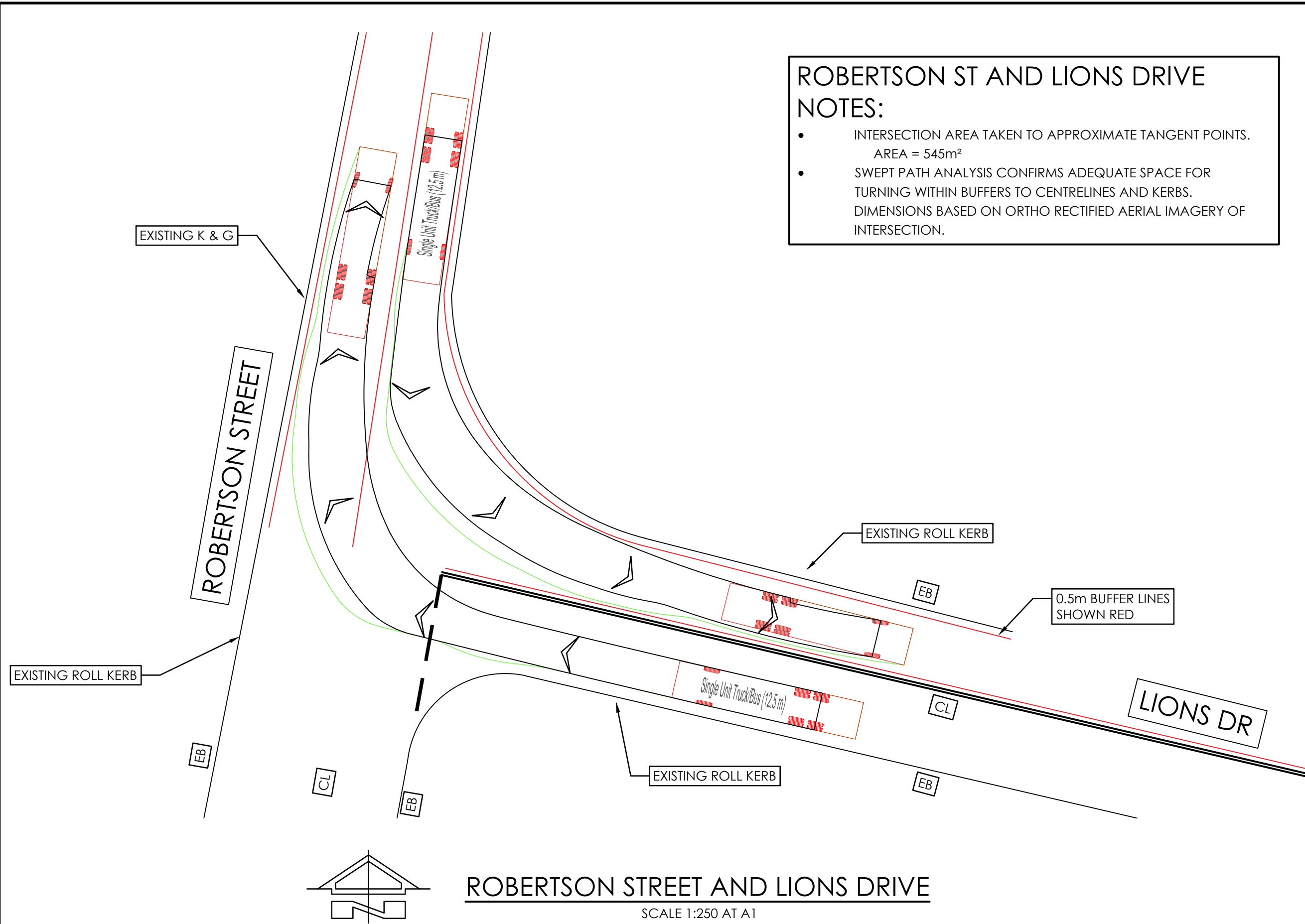












**VEHICLE SIMULATION NOTES:**

1. VEHICLE SWEEP PATH ANALYSIS MODELLING CARRIED OUT USING CIVIL3D 2019 VEHICLE TRACKING MODULE. DESIGN VEHICLE USED IS:
  - 1.1. SINGLE UNIT TRUCK/BUS (12.5m) AUSTRROADS 2013.
  - 1.2. B99 VEHICLE TEMPLATE AS2890.1.
2. SWEEP PATH ANALYSIS IN LINE WITH AGRD 04 - 2009 IN PARTICULAR SECTION 5.6.2 AND 5.6.3 WITH 0.5m BUFFER TO CENTRELINES.

ISSUED FOR INFORMATION	25.03.20	D	J.L.D.
ISSUED FOR INFORMATION	10.03.20	C	J.L.D.
ISSUED FOR INFORMATION	25.11.19	B	J.L.D.
ISSUED FOR 80% DOCUMENTATION	22.09.20	E	J.L.D.
AMENDMENTS	DATE	ISSUE	BY

ARCHITECT  
**ALLEANZA**  
ARCHITECTURE

CLIENT  
**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEES, NSW, 2850

DESIGNED J.L.D. DRAWN J.O.M. DATE MAY '19 SIZE A1 CAD REF TX13843.00 - C1.0



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DRAWING TITLE  
**VEHICLE SIMULATION PLAN**

PROJECT No. TX13843.00 - C10.0 DRAWING No. ISSUE E

NOT FOR CONSTRUCTION

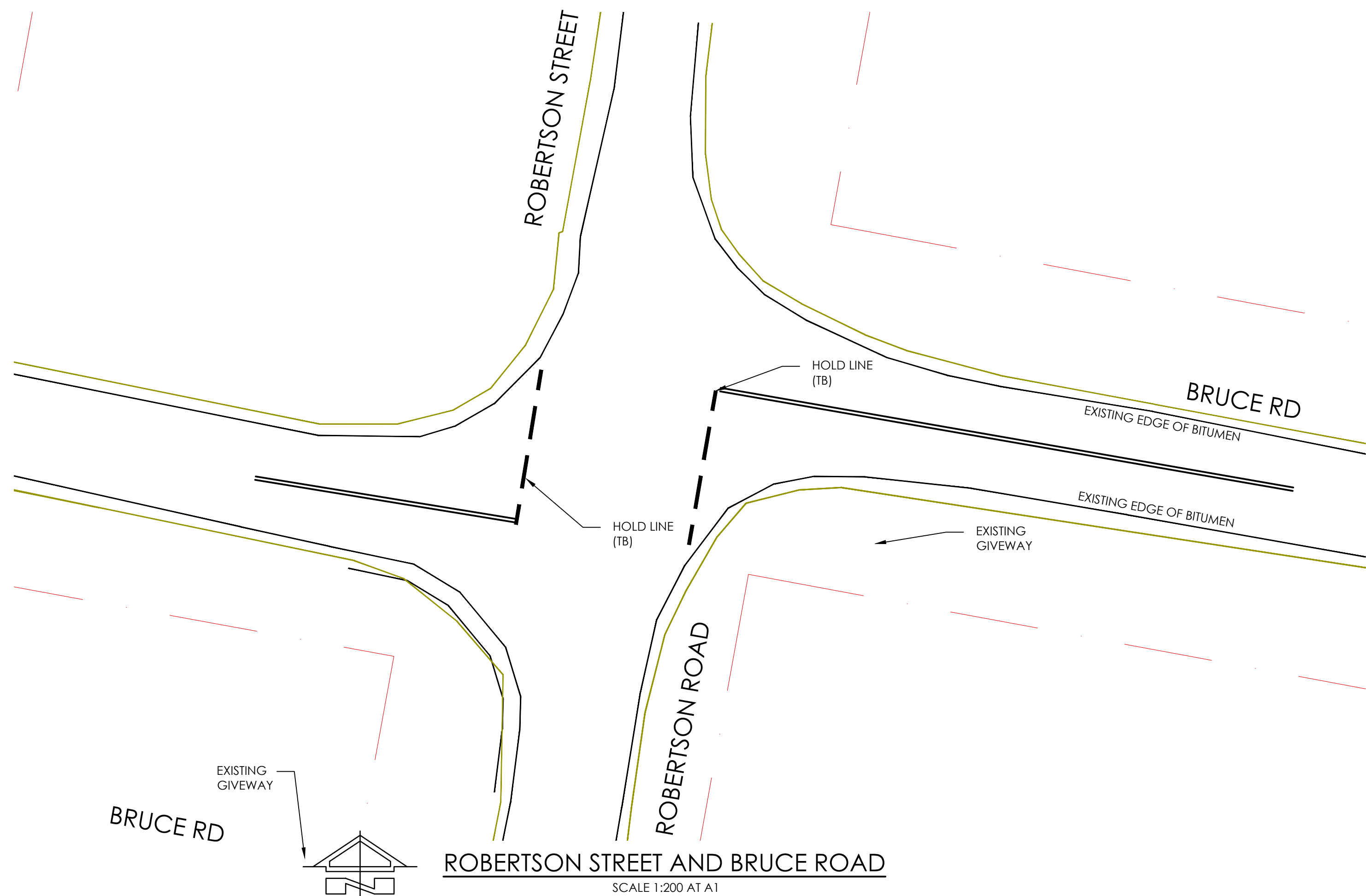




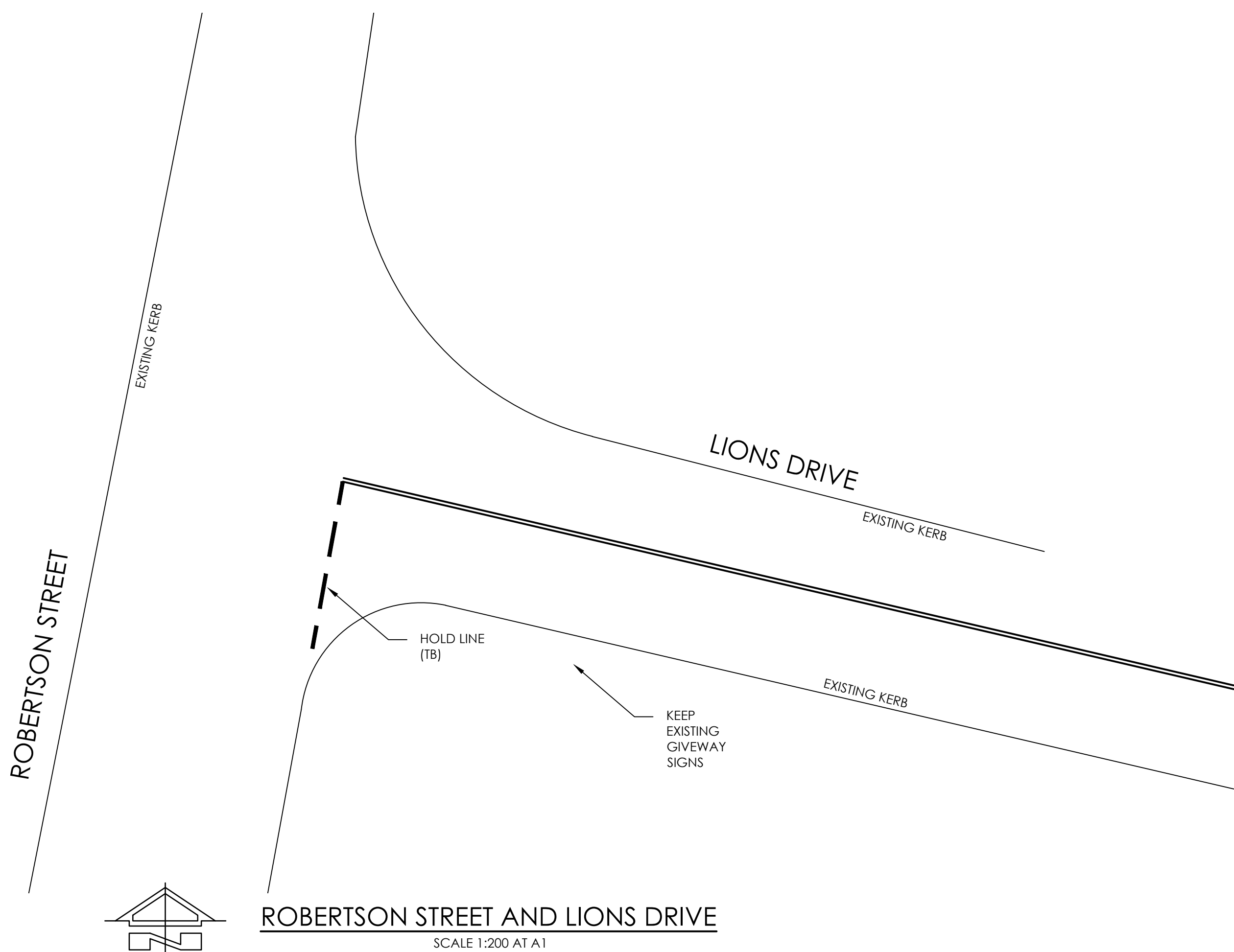
R1-2

SIGNPOSTING SCHEDULE

N.T.S.



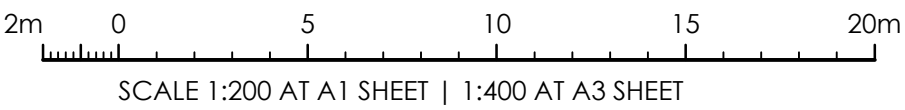
ROBERTSON STREET AND BRUCE ROAD  
SCALE 1:200 AT A1



ROBERTSON STREET AND LIONS DRIVE  
SCALE 1:200 AT A1

- NOTE:
1. DASHED LINES ARE NOT REPRESENTATIVE OF ACTUAL REQUIRED BROKEN LINES, REFER TO LABEL.
  2. LINEMARKING AND SIGNPOSTING TO CURRENT AUSTRROADS AND RMS SUPPLEMENT GUIDES IN PARTICULAR AS1742.2, AGTM06, AGTM10, AND AGRD04/A/B.

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AMENDMENTS

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DATE

A  
ISSUE

J.L.D.  
BY

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**ALLEANZA**  
ARCHITECTURE

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**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEE, NSW, 2850

DESIGNED  
J.L.D.

DRAWN  
J.O.M.

DATE  
MAY '19

SIZE  
A1

CAD REF  
TX13843.00 - C1.0



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DRAWING TITLE  
**INTERSECTION UPGRADE PLAN -  
SHEET 1**

PROJECT No.  
**TX13843.00 - C10.1**

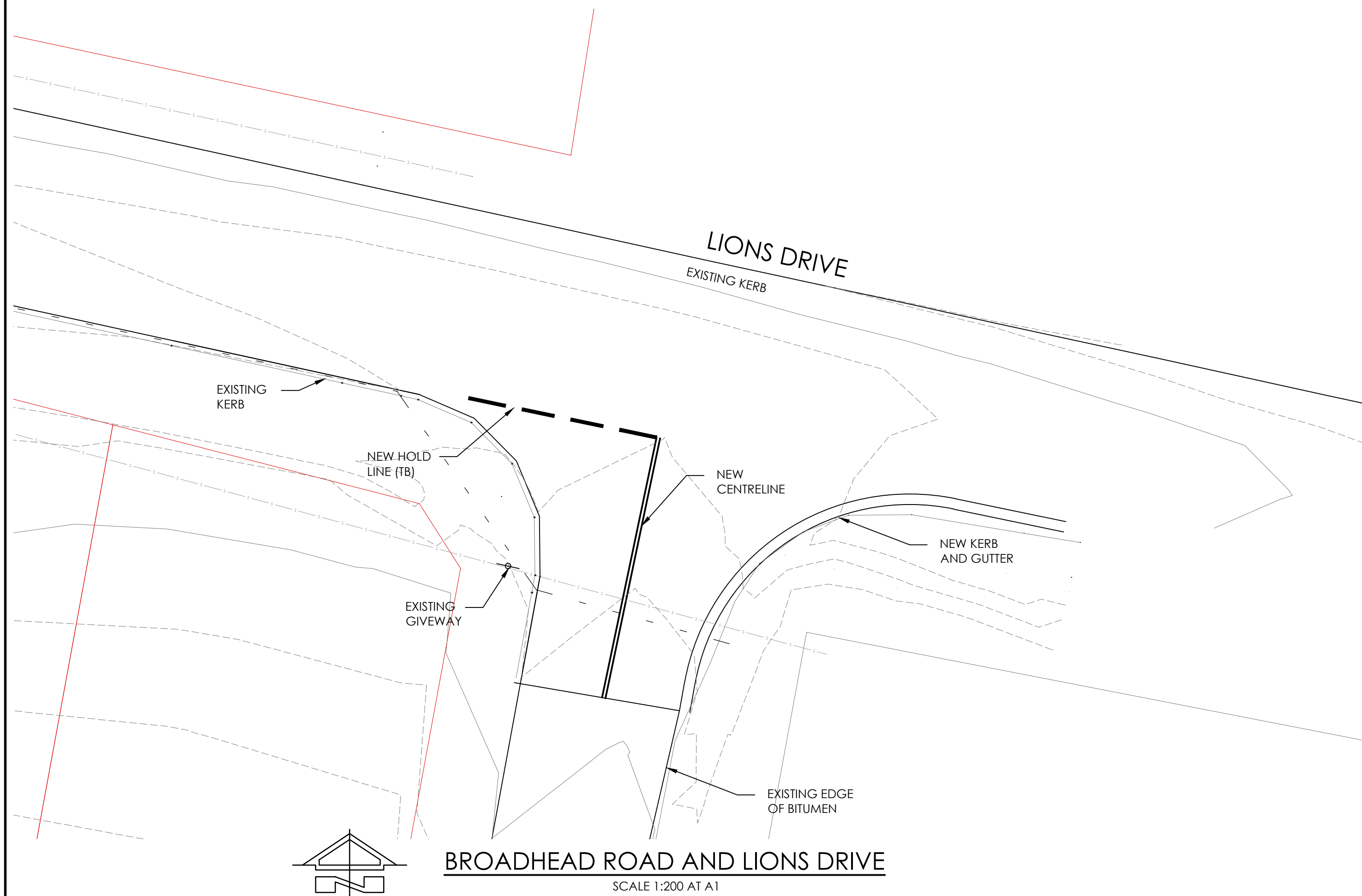
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ISSUE

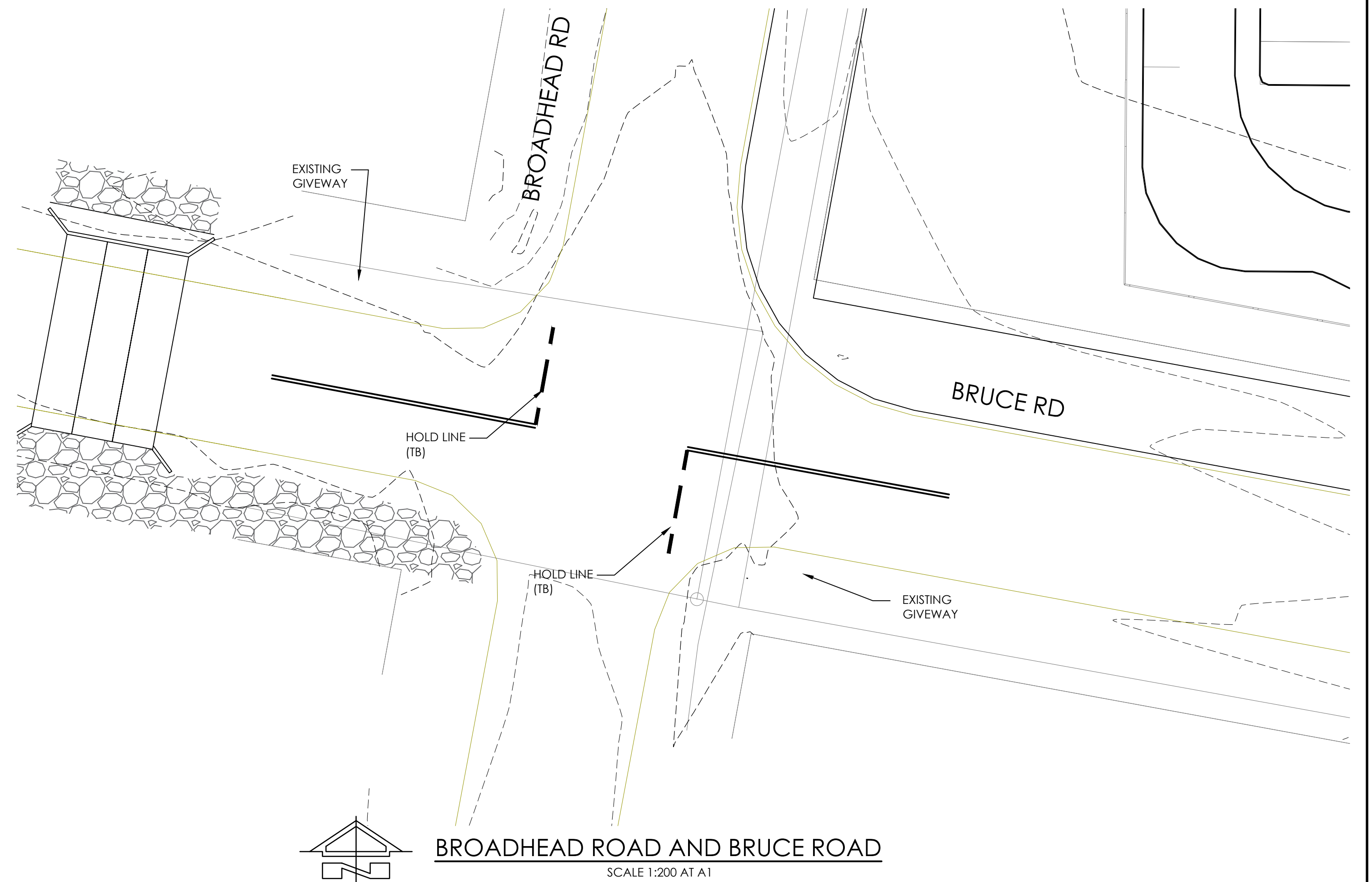
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NOT FOR CONSTRUCTION



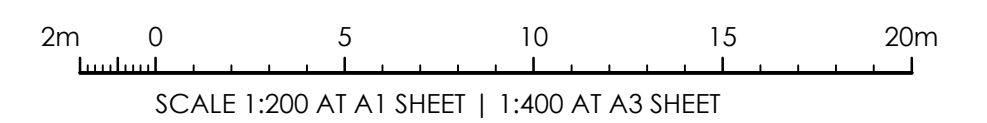


**BROADHEAD ROAD AND LIONS DRIVE**  
SCALE 1:200 AT A1



**BROADHEAD ROAD AND BRUCE ROAD**  
SCALE 1:200 AT A1

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AMENDMENTS

DATE	ISSUE	BY
22.09.20	A	J.L.D.

ARCHITECT  
**ALLEANZA**  
ARCHITECTURE

CLIENT  
**TSA MANAGEMENT**  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEE, NSW, 2850

DESIGNED J.L.D.	DRAWN J.O.M.	DATE MAY '19	SIZE A1	CAD REF TX13843.00 - C1.0
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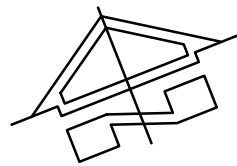
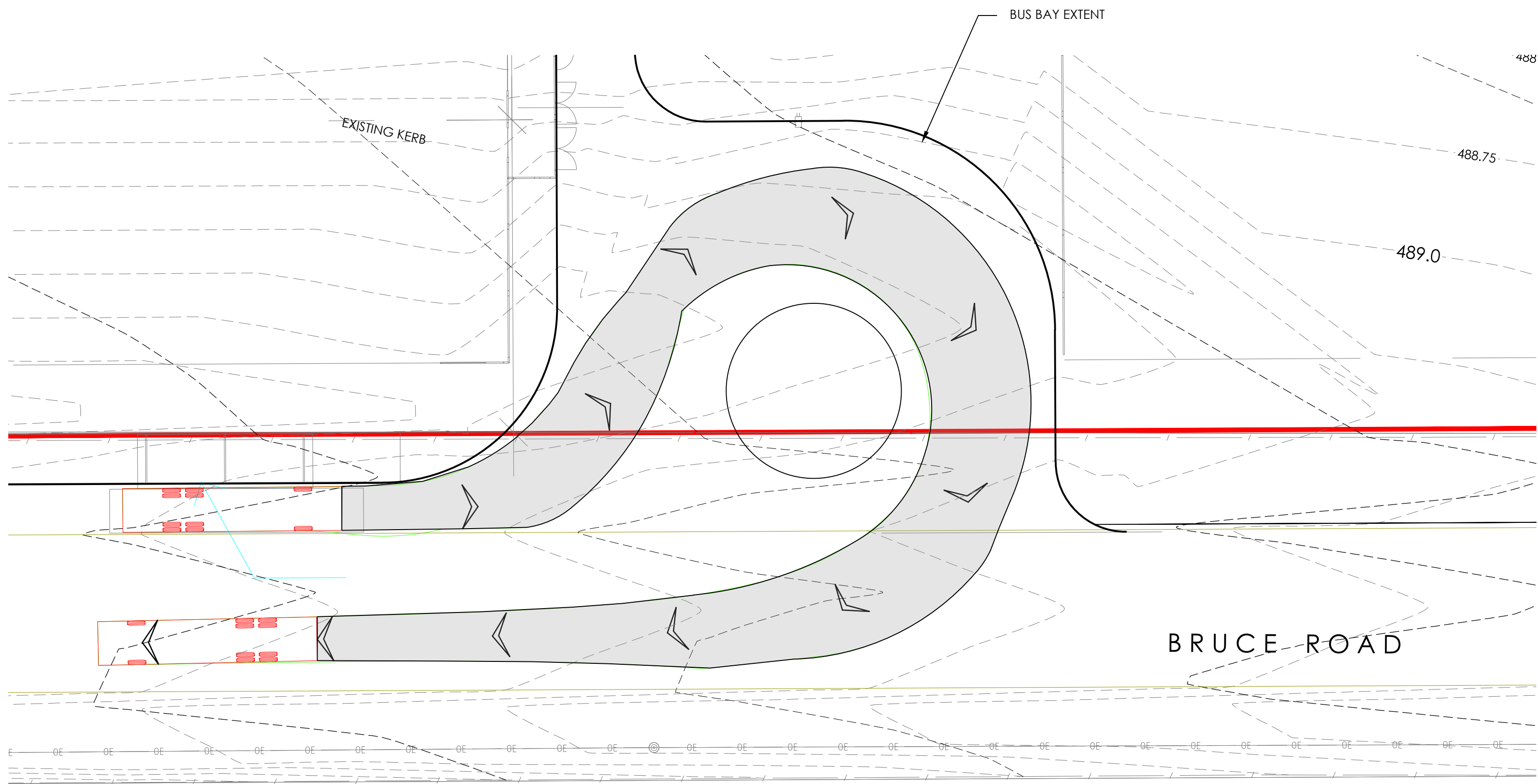
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**INTERSECTION UPGRADE PLAN -  
SHEET 2**

PROJECT No. <b>TX13843.00 -</b>	DRAWING No. <b>C10.2</b>	ISSUE <b>A</b>
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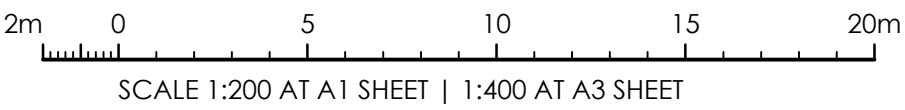
**NOT FOR CONSTRUCTION**



- VEHICLE SIMULATION NOTES:
- VEHICLE SWEEP PATH ANALYSIS MODELLING CARRIED OUT USING CIVIL3D 2019 VEHICLE TRACKING MODULE. DESIGN VEHICLE USED IS:
    - SINGLE UNIT TRUCK/BUS (12.5m)  
AUSTROADS 2013.
    - B99 VEHICLE TEMPLATE AS2890.1.
  - SWEPT PATH ANALYSIS IN LINE WITH AGRD 04 - 2009 IN PARTICULAR SECTION 5.6.2 AND 5.6.3 WITH 0.5m BUFFER TO CENTRELINES.



**BRUCE ROAD BUS TURNING BAY**  
SCALE 1:209 AT A1



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AMENDMENTS

22.09.20 A J.L.D.  
DATE ISSUE BY

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**ALLEANZA**  
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LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
**PROPOSED SCHOOL**  
LOT 40 BROADHEAD ROAD  
MUDGEE, NSW, 2850

DESIGNED J.L.D. DRAWN J.O.M. DATE MAY '19 SIZE A1 CAD REF TX13843.00 - C1.0



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RESOLVED SIMPLY

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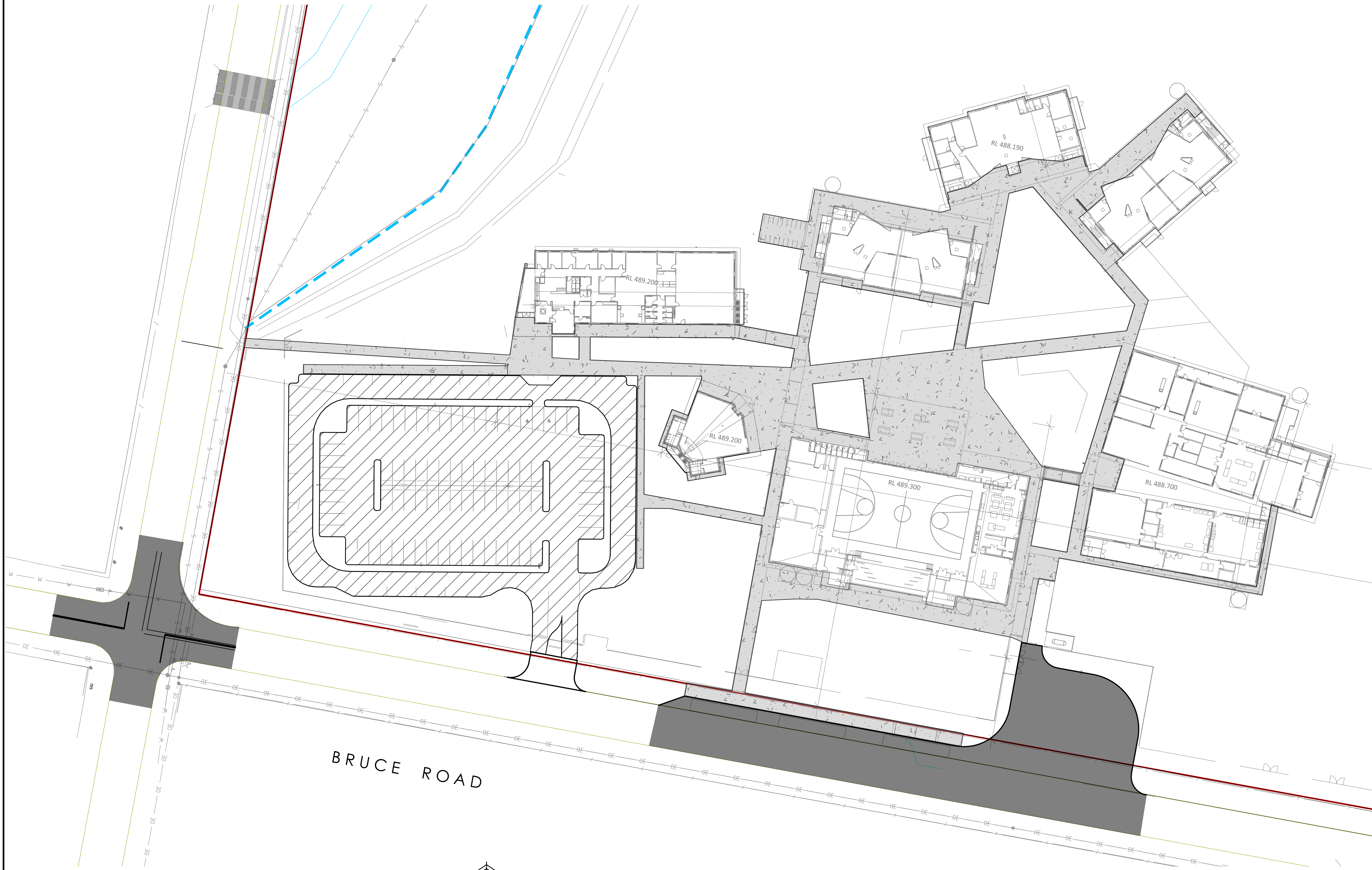
ADELAIDE | BAROSSA | DARWIN | MUDGEE | PARRAMATTA | SYDNEY

DRAWING TITLE  
**BUS BAY SWEPT PATH**

PROJECT No. **TX13843.00 - C10.3** DRAWING No. **A** ISSUE

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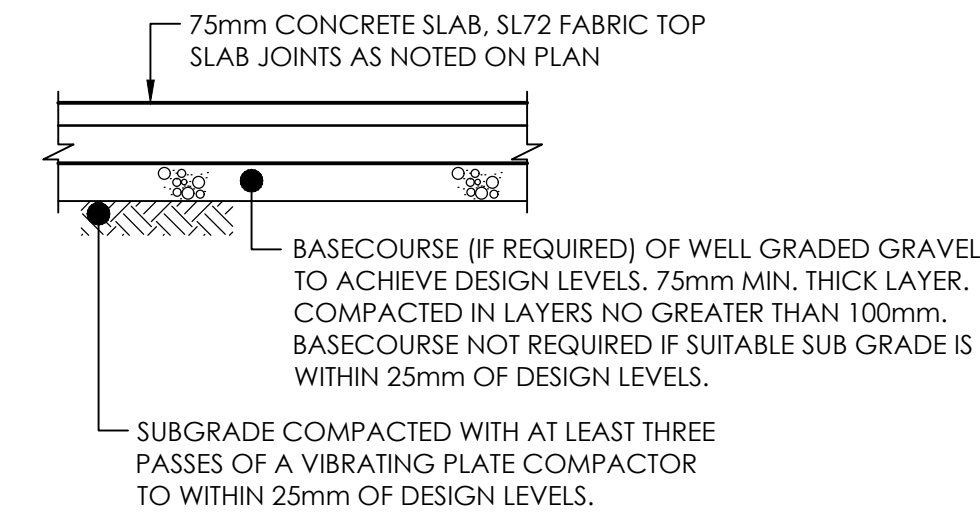
AREA		
	MATERIAL	AREA (m²)
INTERNAL CARPARK	2 COAT SEAL	3229
INTERNAL FOOTPATH	CONCRETE / PAVING	3998
EXTERNAL ROAD	2 COAT SEAL/ HOT MIX	6652
EXTERNAL ROAD (BUS BAY + INTERSECTION)	HOT MIX	2536
EXTERNAL FOOTPATH	CONCRETE	695
EXTERNAL FOOTPATH ELEVATED	STEEL	94

LEGEND - PAVEMENT

- CONCRETE FOOTPATH/PAVING (REFER LANDSCAPE PLAN)
- CARPARK (2 COAT ASPHALT SEAL)
- BUSBAY/INTERSECTION (AC HOTMIX)

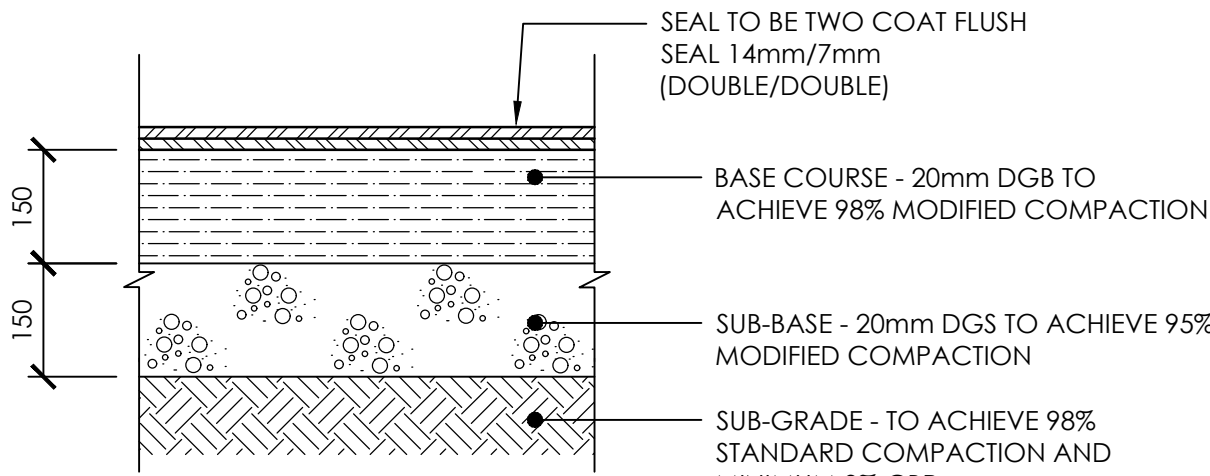
INTERNAL PAVEMENT PLAN

SCALE 1:500 AT A1



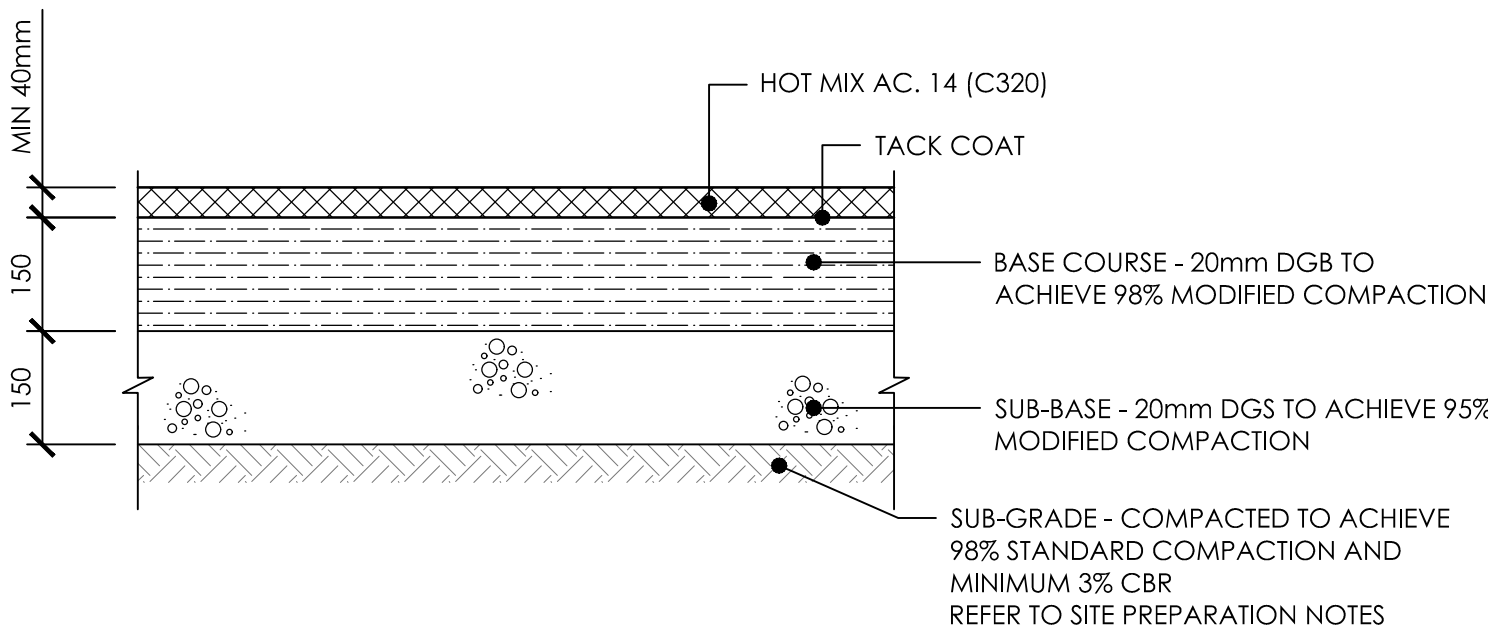
FOOTPATH PAVEMENT

SCALE 1:10



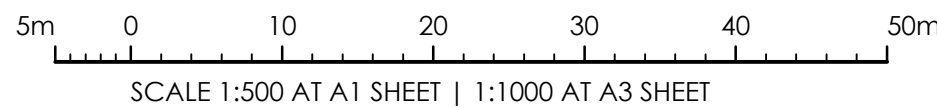
SPRAY SEALED PAVEMENT

(VEHICULAR)  
SCALE 1:10 AT A1



ASPHALT PAVEMENT

(VEHICULAR - HEAVY DUTY)  
SCALE 1:10 (A1)



ISSUED FOR INFORMATION	10.03.20	D	J.L.D.	ARCHITECT
ISSUED FOR INFORMATION	13.01.20	C	J.L.D.	
ISSUED FOR INFORMATION	25.11.19	B	J.L.D.	
ISSUED FOR 80% DOCUMENTATION	22.09.20	E	J.L.D.	
AMENDMENTS	DATE	ISSUE	BY	

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ARCHITECTURE

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TSA MANAGEMENT  
LEVEL 15, 207 KENT ST  
SYDNEY, NSW, 2000



PROJECT  
PROPOSED SCHOOL  
LOT 40 BROADHEAD ROAD  
MUDGEE, NSW, 2850

DESIGNED J.L.D. DRAWN J.O.M. DATE MAY '19 SIZE A1 CAD REF TX13843.00 - C1.0



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DRAWING TITLE  
PAVEMENT PLAN - INTERNAL

PROJECT No. TX13843.00 - C11.0 DRAWING No. E

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