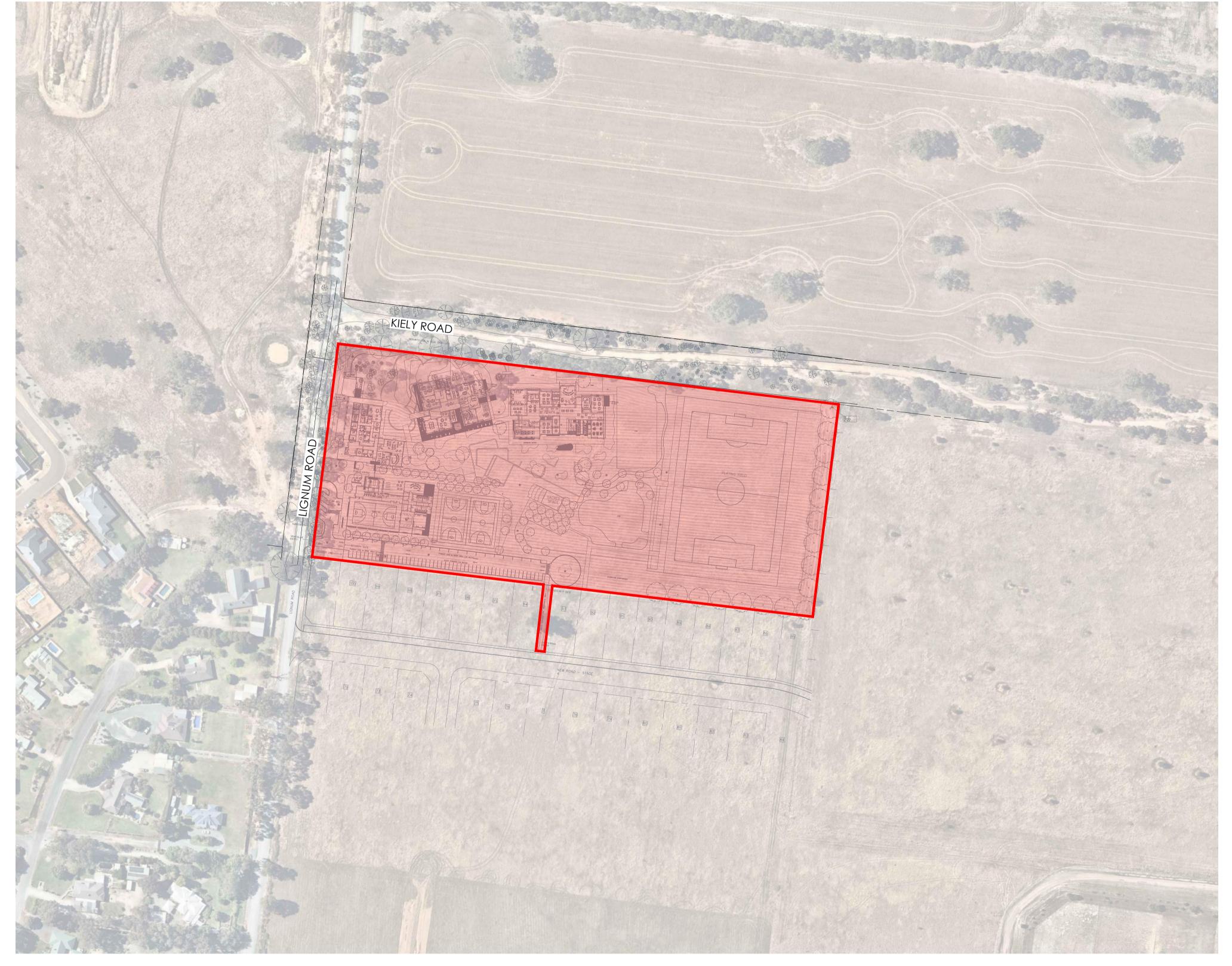
BLESSED CARLO COLLEGE

LIGNUM ROAD & KIELY ROAD, MOAMA, NSW, 2731



DRAWING LIST

DRAWING LIST				
No.	DRAWING TITLE			
C001	COVER SHEET AND LOCALITY PLAN			
C002 GENERAL NOTES AND LEGENDS				
C100	SITEWORKS AND STORMWATER PLAN			
C110	TYPICAL DETAILS - SHEET 1			
C111	TYPICAL DETAILS - SHEET 2			
C200	EROSION AND SEDIMENT CONTROL PLAN			
C210	EROSION AND SEDIMENT CONTROL DETAILS - SHEET 1			
C211	EROSION AND SEDIMENT CONTROL DETAILS - SHEET 2			

LOCALITY PLAN
SCALE 1:1500

AMDT DATE DESCRIPTION BY

2 20.12.21 RE-ISSUED FOR SSDA CONCEPT DM

1 17.12.21 ISSUED FOR SSDA CONCEPT DM



CLIENT
CLARKE HOPKINS CLARKE

STATUS
PRELIMINARY

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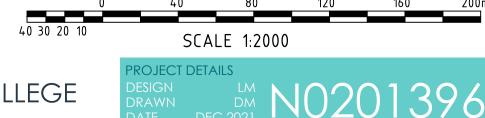


DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
COVER SHEET AND
LOCALITY PLAN

PROJECT
BLESSED CARLO COLLEGE

ADDRESS
LIGNUM ROAD & KIELY ROAD, MOAMA
NSW, 2731





BLESSED CARLO COLLEGE

LIGNUM ROAD & KIELY ROAD, MOAMA, NSW, 2731

STANDARD SYMBOLS & NOTATIONS SYMBOL **DESCRIPTION BOUNDARY LINE** PROPOSED STORMWATER DRAINAGE LINE (IN THE GROUND) Ø100 @ 1.0% MIN GRADE UNO. PROPOSED RAINWATER DRAINAGE LINE Ø100 @ 1.0% MIN GRADE UNO. USE - RW -PRESSURE GRADE PIPES FOR CHARGED SYSTEM EXISTING STORMWATER DRAINAGE PIT AND PIPE _ ___ _ RM _ PUMP RISING MAIN 90Ø SUBSOIL LINE CONNECT TO STORMWATER OUTLET OR --- S/S ---- S/S **VERTICAL SLOT DRAIN** SPOON / SWALE DRAIN GRATED SURFACE INLET PIT WITH (OVERLAND FLOW DIRECTION). PIT DIMENSIONS ARE GOVERNED BY DEPTH REFER DETAIL SEALED JUNCTION PIT GRATED DRAIN KERB INLET PIT WITH LINTEL RAINWATER DRAINAGE OUTLET 22m² R-> CATCHMENT AREA TO STORMWATER PIT 44 m² P PO DRAINAGE CELL PLANTER OUTLET ODP-100Ø INDICATIVE DOWNPIPE - LOCATION AND MINIMUM SIZE RHO 🖂 DOWNPIPE WITH RAINWATER HEAD OVERFLOW SHO [8] DOWNPIPE WITH SUMP HIGH CAPACITY OVERFLOW SSO 💾 DOWNPIPE WITH SUMP-SIDE OVERFLOW **GUTTER** 100 INSPECTION OPENING VD-150Ø — VERTICAL DROP IN STORMWATER LINE (FROM ABOVE) VERTICAL DROP IN STORMWATER LINE (TO BELOW) VD-150Ø —— DOWNPIPES WITH SPREADER DPS O RWT PROPOSED RAINWATER TANK 35.11 EXISTING SURFACE LEVEL -----36.00-**EXISTING SURVEY CONTOUR** * RL35.40 FINISHED SURFACE LEVEL * P35.85 FINISHED PAVEMENT LEVEL TOP OF NEW KERB LEVEL * TK35.55 * TOW35.55 TOP OF NEW RETAINING WALL LEVEL GL 35.05 PROPOSED PIT SURFACE LEVEL IL 34.75 PROPOSED PIT INVERT LEVEL FFL23.56 PROPOSED FINISHED FLOOR LEVEL PIPE SIZE, TYPE AND GRADE 225Ø uPVC @ 1.0% MIN > DENOTES DIRECTION OF FLOW uPVC RIGID PVC PIPE RCP REINFORCED CONCRETE PIPE RKG ROLL KERB & GUTTER K&G KERB & GUTTER 150 KO 150 HIGH KERB ONLY VERLAND FLOW PATH ALL DIRECTION TOW (X.XXm) RETAINING WALL WITH HEIGHT EXISTING SEWER LINE ---- S ---- S -EXISTING TELSTRA LINE ———— T ———— T — ———— G ———— G — EXISTING GAS LINE EXISTING ELECTRICITY LINE EXISTING WATER MAIN ____ \\ \rangle \| \ra

ALL EXISTING LEVELS TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF WORKS.

DEPTH AND LOCATION OF ALL EXISTING SERVICES TO BE CONFIRMED BY BUILDER ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

GENERAL

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION. WHERE A SPECIFICATION HAS NOT BEEN NOMINATED THEN THE CURRENT NSW DEPARTMENT OF HOUSING CONSTRUCTION SPECIFICATION IS TO BE USED. THE NOMINATED SPECIFICATION SHALL TAKE PRECEDENCE TO THESE NOTES.
- DRAWINGS & DRAWINGS FROM OTHER CONSULTANTS. THE CONTRACTOR SHOULD REPORT ANY DISCREPANCIES ON THE DRAWINGS TO THE ENGINEER

ALL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL

- RESPONSIBLE FOR THE DESIGN. THE CONTRACTOR SHOULD LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO
- COMMENCING CONSTRUCTION AND PROTECT AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE AND/OR ADJUST IF NECESSARY. INFORMATION GIVEN ON THE DRAWINGS IN RESPECT TO SERVICES IS FOR GUIDANCE ONLY AND IS NOT GUARANTEED COMPLETE NOR CORRECT CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT
- THE PERMISSION OF THE OWNER. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.
- ALL DRAINAGE LINES THOUGH ADJACENT LOTS SHALL BE CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S STANDARDS 9. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS ETC.
- TO THE EXTENT SPECIFIED. 10. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC ROADS, PLAN TO BE SUBMITTED

SURVEY

TO COUNCIL & RMS.

- 1. JN ARE NOT RESPONSIBLE FOR THE ACCURACY OF ANY 3RD PARTY INFORMATION
- PROVIDED ON THIS DRAWING. 2. ALL LEVELS ARE TO A.H.D.
- 3. ALL CHAINAGES AND LEVELS ARE IN METRES, AND DIMENSIONS IN MILLIMETRES. 4. SET OUT COORDINATES ARE BASED ON SURVEY DRAWINGS PROVIDED FOR THE PURPOSE OF CARRYING OUT THE ENGINEERING DESIGN.
- 5. CONTRACTOR SHALL VERIFY ALL SET OUT COORDINATES SHOWN ON THE PLANS WITH A REGISTERED SURVEYOR.
- 6. CONTRACTOR SHALL ARRANGE FOR THE WORKS TO BE SET OUT BY A REGISTERED SURVEYOR . ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE ENGINEER PRIOR TO COMENCEMENT OF THE WORK FOR CONFIRMATION OF THE SURVEY.

EARTHWORKS

- 1. PROVIDE PROTECTION BARRIERS TO PROTECTED/SENSITIVE AREAS PRIOR TO ANY BULK **EXCAVATION**
- 2. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS ETC. AND STRIP TOP SOIL. AVERAGE 200mm THICK. REMOVE FROM SITE, EXCEPT TOP SOIL FOR RE-USE.
- CUT AND FILL OVER THE SITE TO LEVELS REQUIRED. 4. PRIOR TO ANY FILLING IN AREAS OF CUT OR IN EXISTING GROUND, PROOF ROLL THE EXPOSED SURFACE WITH A ROLLER OF MINIMUM WEIGHT OF 5 TONNES WITH A MINIMUM
- OF 10 PASSES. 5. EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%.
- 6. FOR ON SITE FILLING AREAS, THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
- WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUB-GRADE, THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH EXCAVATION IS TAKEN. 8. FILL IN 200mm MAXIMUM (LOOSE THICKNESS) LAYERS TO UNDERSIDE OF BASECOURSE
- USING THE EXCAVATED MATERIAL AND COMPACTED TO 98% STANDARD (AS 1289 5.1.1). MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% SHOULD THERE BE INSUFFICIENT MATERIAL FROM SITE EXCAVATIONS, IMPORT AS NECESSARY CLEAN GRANULAR FILL TO APPROVAL
- 9. COMPACTION TESTING SHALL BE CARRIED OUT AT THE RATE OF 2 TESTS PER 1000SQ METRES PER LAYER BY A REGISTERED NATA LABORATORY. THE COSTS OF TESTING AND RE-TESTING ARE TO BE ALLOWED FOR BY THE BUILDER.
- 10. BATTERS TO BE AS SHOWN, OR MAXIMUM 1 VERT: 4 HORIZ, ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL PAVEMENT.
- 11. ALL BATTERS AND FOOTPATHS ADJACENT TO ROADS SHALL BE TOP SOILED WITH 150mm APPROVED LOAM AND SEEDED UNLESS OTHERWISE SPECIFIED.

DRAWING STATUS

PRFIIMINIARY PRELIMINARY DRAWINGS ARE NOT TO BE USED FOR TENDER OR CONSTRUCTION PURPOSES.

TENDER DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES AND ARE INTENDED FOR AN EXTENT OF WORKS. ALL OTHER CONSULTANT DRAWINGS AND CONTRACT DOCUMENTS SHOULD BE READ IN CONJUNCTION WITH THESE DOCUMENTS TO DETERMINE THE FULL EXTENT OF WORKS.

CONSTRUCTION CERTIFICATE

CONSTRUCTION CERTIFICATE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED & STAMPED BY THE PCA. CONSTRUCTION

CONSTRUCTION DRAWINGS CAN BE USED FOR CONSTRUCTION PURPOSES AND/OR FOR THE CREATION OF FABRICATION DRAWINGS.

PROJECT INFORMATION TABLE

THE TABLES BELOW ARE TO BE READ IN CONJUNCTION WITH THE ADJACENT NOTES.

GEOTECHNICAL INFORMATION

COMPANY	REPORT No.	DATED

SURVEY INFORMATION	
COMPANY	DATED
NORTH EAST SURVEY DESIGN	MAY 2021

PROOF ROLLING

PROOF ROLLING SPECIFICATION (min) ROLLER WEIGHT (min) NUMBER OF PASSES 10

COMPACTION TESTING

RATE OF TESTS	TEST AREA PER LAYER
2	1000m²
- TESTING SHALL BE CARRIED OUT	BY A REGISTERED NATA LABORATORY

RIGID PAVEMENT DESIGN

MRV		ESA
DESIGN VEHICLE	DESIGN CBR	DESIGN TRAFFIC
DESIGN LIFE	40 YEARS	

FLEXIBLE PAVEMENT DESIGN

 DESIGN LIFE DESIGN VEHICLE DESIGN CBR DESIGN TRAFFIC MRV ESA

STORMWATER DRAINAGE

- 1. STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH CURRENT AUSTRALIAN
- STANDARDS AND COUNCIL'S SPECIFICATION. 2. PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC
- 3. PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2 RUBBER RING JOINTED
- 4. ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE CLASS 3 U.N.O. 5. PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE DRAWINGS. 6. MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK &
- ROADWAY AREAS UNO. 7. PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O
- 8. PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O. 9. BACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200mm LAYERS TO 98% OF STANDARD
- 10. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS. 11. PITS SHALL BE AS DETAILED WITH METAL GRATES AT LEVELS INDICATED. ALL PITS DEEPER THAN
- 1000mm TO HAVE CLIMB IRONS. 12. BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE FALLING TO PITS TO MATCH PIT
- INVERTS 13. ALL COURTYARD & LANDSCAPED PITS TO BE 450 SQUARE, LOAD CLASS A, UNLESS NOTED
- OTHERWISE. 14. ALL DRIVEWAY & OSD PITS TO BE 600 SQUARE, LOAD CLASS D, UNLESS NOTED OTHERWISE.
- 15. INSTALL TEMPORARY SEDIMENT BARRIERS TO INLET PITS, TO COUNCIL'S STANDARDS UNTIL SURROUNDING AREAS ARE PAVED OR GRASSED.
- 16. PITS & DOWNPIPE LOCATIONS AND LEVELS MAY BE VARIED TO SUIT SITE CONDITIONS AFTER
- CONSULTING THE ENGINEER. 17. DOWNPIPES SHOWN ARE INDICATIVE ONLY, ALL ROOF GUTTERING AND DOWNPIPES TO THE
- CURRENT AUSTRALIAN STANDARDS. 18. ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED STORMWATER
- DRAINAGE LINE. 19. HAND-EXCAVATE STORMWATER PIPES IN VICINITY OF TREE ROOTS.
- 20. FOOTPATH CROSSING LEVELS SHOWN ARE TO BE ADJUSTED TO FINAL COUNCIL'S ISSUED LEVELS. 21. GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION.
- 22. ALL BASES OF PITS TO BE BENCHED TO HALF PIPE DEPTH AND PROVIDE GALVANISED ANGLE SURROUNDINGS TO GRATE.
- PIPES AND FITTINGS SHALL BE PERFORATED PLASTIC TO CURRENT AUSTRALIAN STANDARDS, LAY PIPES ON FLOOR OF TRENCH GRADED AT 1% MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE, PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL. PROVIDE FLUSHING EYE'S AT HIGH POINTS OR TO COUNCILS
- 24. SHOULD THE CONTRACTOR ELECT TO INSTALL PRECAST STORMWATER PITS AND THEY ARE PERMITTED BY COUNCIL AND THE CLIENT, THE PRECAST PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH
- RMS STANDARDS INCLUDING: a. SEAL THE SEGMENTS TOGETHER USING A SITE-APPROVED NON-SHRINK GROUT OR MASTIC-TYPE PRODUCT. APPLY THE SEALANT IN ACCORDANCE WITH THE PRODUCT
- MANUFACTURER'S REQUIREMENTS b. ENSURE THAT NO GAPS REMAIN AND THAT A SMOOTH FACE EXISTS BETWEEN MULTIPLE UNITS. C. LEAVE THE SEGMENTS UNDISTURBED UNTIL THE PERIOD OF CURING IS COMPLETED IN ACCORDANCE WITH THE GROUT OR SEALANT PRODUCT MANUFACTURER'S REQUIREMENTS.

DRAINAGE INSTALLATION

- RCP CONVENTIONAL INSTALLATIONS & ROAD CROSSINGS 1. SUPPLY & INSTALLATION OF DRAINAGE WORKS TO BE IN ACCORDANCE WITH THESE
- DRAWINGS, THE COUNCIL SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN
- 2. BEDDING OF THE PIPELINES IS TO BE TYPE 'HS2' IN ACCORDANCE WITH THE STANDARDS AND AS FOLLOWS:
- a. COMPACTED GRANULAR MATERIAL IS TO COMPLY WITH THE FOLLOWING GRADINGS: SIEVE SIZE (mm) 19 2.36 0.60 0.30 0.15 0.075

% MASS PASSING 100 50-100 20-90 10-60 0-25 0-10 - AND THE MATERIAL PASSING THE 0.075 SIEVE HAVING LOW PLASTICITY AS DESCRIBED IN

- b. BEDDING DEPTH UNDER THE PIPE TO BE 100mm.
- C. BEDDING MATERIAL TO BE EXTENDED FROM THE TOP OF THE BEDDING ZONE UP TO 0.3 TIMES PIPE OUTSIDE DIAMETER. THIS REPRESENTS THE 'HAUNCH ZONE.' d. THE BEDDING & HAUNCH ZONE MATERIAL IS TO BE COMPACTED TO A MINIMUM RELATIVE
- COMPACTION OF 98% WITHIN ROAD RESERVES AND TRAFFICABLE AREAS AND 95% ELSEWHERE FOR COHESIVE MATERIAL OR A MINIMUM DENSITY INDEX OF 70% IN ACCORDANCE WITH THE STANDARDS FOR COHESIONLESS MATERIAL.
- e. COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED ORGANISATION WITH A NATA CERTIFIED LABORATORY FOR ALL DRAINAGE LINES LAID WHOLLY OR IN PART UNDER THE KERB & GUTTER OR PAVEMENT.
- 3. BACKFILL SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH THE SPECIFICATION, A GRANULAR GRAVEL AGGREGATE MATERIAL (<10mm) BACKFILL IS RECOMMENDED FOR THE BEDDING, HAUNCH SUPPORT AND SIDE ZONE DUE TO IT'S SELF COMPACTING ABILITY. 4. A MINIMUM OF 150mm CLEARANCE IS TO BE PROVIDED BETWEEN THE OUTSIDE OF THE PIPE BARREL AND THE TRENCH WALL FOR PIPES < 600 DIA. 200mm CLEARANCE FOR PIPES 600 TO

SAFETY IN DESIGN

1200 DIA AND D/6 CLEARANCE FOR PIPES > 1200 DIA.

PAVEMENT LEGEND

- 1. THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING THIS DESIGN THAT ARE TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR,
- OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS. 2. REFER TO THE JN SAFETY IN DESIGN REPORT FOR UNIQUE RISKS ASSOCIATED WITH THE DESIGN.
- 3. JN'S ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN.

PAVEMENT - FLEXIBLE

- 1. THE PAVEMENT DESIGN AS DETAILED ASSUMES A PROPERLY PREPARED UNIFORM AND STABLE
- SUBGRADE. CONFIRMATION OF DESIGN CBR RATIO IS REQUIRED BY A GEOTEHCNICAL
- PRIOR TO WORKS COMMENCING.

2. ASSUMED DESIGN CBR TO BE CONFIRMED ONSITE DURING CONSTRUCTION PRIOR TO

- PLACEMENT OF PAVEMENT MATERIALS. THE CONTRACTOR IS TO UNDERTAKE SUFFICIENT CBR TESTING TO CONFIRM THE ASSUMED VALUE. WHERE LESSER VALUE HAS BEEN DETERMINED, THE SUPERVISING ENGINEER IS TO BE NOTIFIED TO DETERMINE A REVISED PAVEMENT DESIGN.
- 3. PAVEMENT TO BE CONSTRUCTED AS FOLLOWS: SURFACE COURSE - DENSE GRADED ASPHALT

PRIMERSEAL - EMULSION BASED HOT BITUMEN

SUB BASE - DGS 40 4. SUBGRADE SHALL BE COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY RATIO AT

- OPTIMUM MOISTURE CONTENT ±2%. IN ACCORDANCE WITH CURRENT AUSTRALIAN
- 5. SUBBASE COURSE SHALL BE COMPACTED TO 95% MODIFIED MAXIMUM DRY DENSITY 6. BASECOURSE SHALL BE COMPACTED TO 98% MODIFIED MAXIMUM DRY DENSITY.
- 7. PRIOR TO THE PLACEMENT OF THE PRIMERSEAL AND AFTER THE REQUIRED DENSITY IS ACHIEVED, THE PAVEMENT IS TO BE ALLOWED TO DRY BACK TO APPROXIMATELY 60% TO 70% OPTIMUM MOISTURE CONTENT.
- 8. ALL SUBGRADES TO BE ROOF ROLLED & APPROVED BY SUPERVISING ENGINEER. 9. COMPACTION TESTS ARE TO BE UNDERTAKEN FOR ALL PAVEMENT LAYERS INCLUDING SUBGRADE AT A RATE TO BE DETERMINED BY THE SUPERVISING ENGINEER & THE RESULTS TO BE SUPPLIED TO THE ENGINEER PRIOR TO PLACEMENT OF THE NEXT PAVEMENT LAYER

PAVEMENT - RIGID

- 1. PREPARATION FOR PAVEMENT: CLEAR SITE, STRIP TOPSOIL, CUT AND FILL AND
- PREPARATION OF SUBGRADE SHALL BE AS DESCRIBED IN "EARTHWORKS" NOTES. 2. SUBGRADE SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% IN ACCORDANCE WITH AS 1289 5.1.1.
- 3. BASE COURSE SHALL BE CONSTRUCTED FROM FINE CRUSHED ROCK DGB20 COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% IN
- ACCORDANCE WITH AS 1289 5.1.11 4. CONCRETE PAVEMENT SLABS SHALL BE AS DETAILED ON THE DRAWINGS.
- 5. ALL WORKMANSHIP AND MATERIALS FOR CONCRETE WORK SHALL BE IN ACCORDANCE WITH AS 3600 AND AS 3610 CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE
- VARIED BY THE CONTRACT DOCUMENTS. 6. CONCRETE QUALITY ALL CEMENT SHALL BE TYPE SL SHRINKAGE LIMITED CEMENT IN

CCORDANCE WITH A	1539/2		
ELEMENT	STRENGTH GRADE (MPa)	SLUMP	MAXIMUM AGGREG. SIZE (mm)
PAVEMENT	32	80	20

- 7. PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3600. 8. NO ADMIXTURES SHALL BE USED IN CONCRETE LINESS APPROVED IN WRITING. 9. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm. 10. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF
- 11. THE FINISHED CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS. COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- 12. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF THREE DAYS, AND THE PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT 13. REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE ENGINEER.

PAVEMENT - SEGMENTAL

- . PREPARATION FOR PAVEMENT: CLEAR SITE, STRIP TOPSOIL, CUT AND FILL AND
- PREPARATION OF SUBGRADE SHALL BE AS DESCRIBED IN "EARTHWORKS". 2. SUBGRADE SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM
- MOISTURE CONTENT ±2% IN ACCORDANCE WITH AS 1289.5.1.1. 3. BASECOURSE SHALL BE CONSTRUCTED FROM FINE CRUSHED ROCK DGB20 COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ±2% IN
- ACCORDANCE WITH AS 1289.5.1.1. 4. PROVIDE CONCRETE WORKING SLAB 20MPa MIN 100mm THICK AS DETAILED ON DRAWING. 5. SEGMENTAL PAVING SHALL BE AS DETAILED ON THE DRAWINGS, AND ARE TO BE SUPPLIED WITH UNITS OF MAXIMUM GROSS PLAN AREA <0.1 m². WHERE THIS AREA IS EXCEEDED REFER CONCRETE FLAG PAVEMENT SPECIFICATION.
- 6. ALL WORKMANSHIP AND MATERIALS FOR PAVER WORK SHALL BE IN ACCORDANCE WITH ALL AS 4455, AS4456, AS4459, T44, T45, T46. CURRENT EDITIONS WITH AMENDMENTS, EXCEPT
- WHERE VARIED BY THE CONTRACT DOCUMENT. 7. PAVER QUALITY:

APPLICATIONS	CHARACTERISTIC BREAKING LOAD (KN)	CHARACTERISTIC FLEXURAL STRENGTH (MPa)
residential pedestrian	2	2
RESIDENTIAL DRIVEWAYS	5	3
PUBLIC FOOTPATHS	5	3
ROADS	5	3
INDUSTRIAL PAVEMENTS	10	4

PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 4456.4

8. PAVERS TO BE BEDDED AND SOUND EDGE RESTRAINTS ARE TO BE PROVIDED. 9. JOINTS TO BE FULLY GROUTED.

ENVIRONMENTAL SITE MANAGEMENT LEGEND			
SYMBOL	DESCRIPTION		
	PROPOSED BUILDING LINE		
	PROPOSED BUILDING ROOF OUTLINE		
	PROPRIETARY SILT FENCE		
	PROVIDE TEMPORARY CHAIN WIRE FENCING (HOARDING) ALONG THE SITE BOUNDAR		
	TEMPORARY STABALISED CONSTRUCTION ENTRY/EXIT. (SHAKER PAD)		
	TEMPORARY FILTER TUBE WITH SAFETY BARRICADE TO KERB INLET PITS.		
A A A	TEMPORARY MASS CONCRETE FOOTPATH CROSSING.		
	DIRECTION OF FLOW		
	DIVERSION BANK		
	SURFACE INLET DRAINAGE PIT WITH SURROUNDING FILTER FABRIC INLET SEDIMENT TRAP OR FILTER TUBES (SANDBAGS)		
	TEMPORARY GEOTEXTILE WRAPPED HAY BALES/SAND BAGS		
66	SANDBAG SEDIMENT INLET TRAP		
00	SANDBAG KERB SEDIMENT TRAP		

DESCRIPTION SYMBOL EXTENT OF CONCRETE PAVEMENT _DJ DOWELLED JOINT K<u>J</u> EYED JOINT SAW CUT JOINT TAIOL TTU 2N12 TRIMMERS x 1500 LONG (TIED UNDER TOP MESH) 150 K&G 150mm HIGH KERB & GUTTER 150 KO 50mm HIGH KERB ONLY EXTENT OF BITUMEN PAVEMENT PAVEMENT TYPE 1 - CONCRETE PAVEMENT TYPE 2 - BITUMEN PAVEMENT TYPE 3 - CONCRETE FOOTPATH PAVEMENT TYPE 4 - GRAVEL PAVEMENT TYPE 5 - PAVERS ANDSCAPE PLANTING AREA ANDSCAPE TILED AREA LANDSCAPE WATER AREA

CIVIL DESIGN COVER SHEET AND LOCALITY PLAN

DISCIPLINE

BLESSED CARLO COLLEGE

LIGNUM ROAD & KIELY ROAD, MOAMA

NSW, 2731

ENVIRONMENTAL SITE MANAGEMENT

FENCE TO BE PLACED DOWNHILL OF STOCKPILE.

STANDARD DRAWINGS "SD"

COURSE OF THE WORKS.

SHOWN ON PLAN.

INDIVIDUAL TREES AS NECESSARY

INLET FILTERS TO SD6-11 & SD6-12.

DURING THE CONSTRUCTION PERIOD.

SURFACE, IS TO BE REMOVED IMMEDIATELY

PROVIDE SAFE ACCESS FOR PEDESTRIANS.

INSTRUCTIONS RECEIVED FROM THE ENGINEER.

THAT OFFENSIVE ODOUR IS NOT EMITTED.

COUNCIL PERMISSION IS OBTAINED.

1. FROSION & SEDIMENT CONTROLS TO BE INSTALLED IN ACCORDANCE WITH COUNCIL'S

2. SEDIMENT & EROSION CONTROLS MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MEASURES ARE TAKEN

OF THE DOWNSTREAM SYSTEM, SUPERVISING ENGINEER SHOULD BE CONTACTED IF IN

4. RETAIN ALL EXISTING GRASS COVER WHEREVER POSSIBLE, TOPSOIL FROM ALL AREAS THAT

5. AREAS OF SITE REGRADING ARE TO BE COMPLETED PROGRESSIVELY DURING THE WORKS

AND STABILISED AS EARLY AS POSSIBLE. THE SUPERVISING ENGINEER MAY DIRECT THE

6. ALL DISTURBED AREAS ARE TO BE SEEDED & FERTILISED WITHIN 14 DAYS OF EXPOSURE.

WILL BE DISTURBED TO BE STRIPPED AND STOCKPILED AT THE NOMINATED SITE. A SEDIMENT

CONTRACTOR TO HAVE AREAS OF DISTURBANCE COMPLETED AND STABILISED DURING THE

7. ALL EXISTING TREES TO BE RETAINED UNLESS SHOWN OTHERWISE ON APPROVED DRAWINGS.

8. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN

10. STOCKPILES OF LOOSE MATERIALS SUCH AS SAND, SOIL, GRAVEL MUST BE COVERED WITH

GEOTEXTILE SILT FENCE MATERIAL. PLASTIC SHEETING OR MEMBRANE MUST NOT BE USED.

11. WASTE MATERIALS ARE TO BE STOCKPILED OR LOADED INTO SKIP-BINS LOCATED ON SITE AS

12 NO MORE THAN 150m OF TRENCHING TO BE OPEN AT ANY ONE TIME, IMMEDIATELY AFTER

13. ALL VEHICLES LEAVING THE SITE MUST PASS OVER THE STABILISED SITE ACCESS BALLAST AREA

(SIMILAR TO SD6-14) TO SHAKE OFF SITE CLAY AND SOIL. IF NECESSARY WHEELS AND AXLES

15. ANY SEDIMENT DEPOSITED ON THE PUBLIC WAY, INCLUDING FOOTPATH RESERVE AND ROAD

DRIVEWAY AREA AND ARE NOT TO OPERATE FROM THE PUBLIC ROADWAY UNLESS SPECIFIC

18. DELIVERY VEHICLES MUST NOT STAND WITHIN THE PUBLIC ROADWAY FOR MORE THAN 20

19. TRUCKS REMOVING EXCAVATED / DEMOLISHED MATERIAL SHOULD TRAVEL ON STABILISED

MOVEMENT ON SITE. TRUCKS TO BE LIMITED TO SINGLE UNIT HEAVY RIGID VEHICLES. (NO

20, ANY EXCAVATION WORK ADJACENT TO ADJOINING PROPERTIES OR THE PUBLIC ROADWAY

21. TOILET FACILITIES MUST BE EITHER A FLUSHING TYPE OR APPROVED PORTABLE CHEMICAL

22. DURING TRENCH EXCAVATION ALL SPOIL SHALL BE MOUNDED ON THE UPHILL SIDE OF

23.DIVERSION BANKS SHOULD BE CONSTRUCTED BY MOUNDING STRIPPED TOPSOIL (MIN

24.UNDISTURBED BUFFER ZONE AREAS ARE CLOSED TO ALL TRAFFIC MOVEMENTS UNLESS

25.TRAFFIC MANAGEMENT MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED

CURRENT EDITION' AND AS 1742 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.'

26.PEDESTRIAN CONTROL MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED

DURING CONSTRUCTION. IN ACCORDANCE WITH 'R.T.A. TRAFFIC CONTROL AT WORK SITES

DURING CONSTRUCTION. IN ACCORDANCE WITH AS 1742 'MANUAL OF UNIFORM TRAFFIC

OTHERWISE NOTED BY THE SUPERINTENDENT AND ACCESS TO THE SEWER OR C.D.L.

TRENCHING WILL BE AS SHOWN, OR HEAVY PENALTIES MAY BE IMPOSED.

TRENCHES AND PLACEMENT IS TO COMPLY WITH THE SUPERINTENDENTS REQUIREMENT.

HEIGHT 600mm) WHERE DIRECTED. MATERIAL TO BE RESPREAD ON FOOTWAYS AFTER FINAL

IS NOT TO BE COMMENCED UNTIL THE STRUCTURAL ENGINEER IS CONSULTED AND SPECIFIC

CLOSET. CHEMICAL CLOSETS ARE TO BE MAINTAINED & SERVICED ON A REGULAR BASIS SO

CONSTRUCTION PATHS. MATERIAL TO BE TAKEN TO THE TRUCK TO REDUCE TRUCK

16. PROVIDE BARRIERS AROUND ALL CONSTRUCTION WORKS WITHIN THE FOOTPATH AREA TO

17. CONCRETE PUMPS AND CRANES ARE TO OPERATE FROM WITHIN THE BALLAST ENTRY

ARE TO BE HOSED DOWN. BALLAST IS TO BE MAINTAINED & REPLACED AS NECESSARY

14. THE HEAD CONTRACTOR IS TO INFORM ALL SITE STAFF AND SUB-CONTRACTORS OF THEIR

OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN

MAXIMUM 20m SPACINGS. FILTERS TO REMAIN IN PLACE UNTIL REVEGETATION HAS

TRENCH BACKFILLING, PROVIDE SANDBAGS OR SAUSAGE FILTERS ACROSS EACH TRENCH AT

SAFETY BARRICADING SHOULD BE USED TO ISOLATE STOCKPILES OF SOLID MATERIALS SUCH

9. ALL SILT FENCES & BARRIERS ARE TO BE MAINTAINED IN GOOD ORDER & REGULARLY

DESILTED DURING THE CONSTRUCTION PERIOD. SILT FENCES TO SD6-8 OR SD6-9.

AS STEEL REINFORCING, FORMWORK AND SCAFFOLDING.

TREES RETAINED ARE TO BE PROTECTED WITH A HIGH VISIBILITY FENCE, PLUS FLAGGING TO

WATER, UNTIL SURROUNDING AREAS ARE PAVED OR REGRASSED. GRAVEL OR GEOTEXTILE

DURING THE COURSE OF CONSTRUCTION TO PREVENT SEDIMENT EROSION AND POLLUTION

DOUBT. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED AFTER EACH RAINFALL EVENT

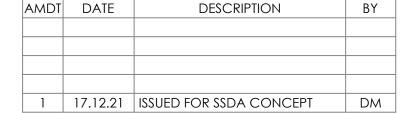
FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED

ANY EARTHWORKS OR DEMOLITION ACTIVITY. THE LOCATION OF SUCH DEVICES IS

INDICATIVE ONLY AND FINAL POSITION SHOULD BE DETERMINED ON SITE.

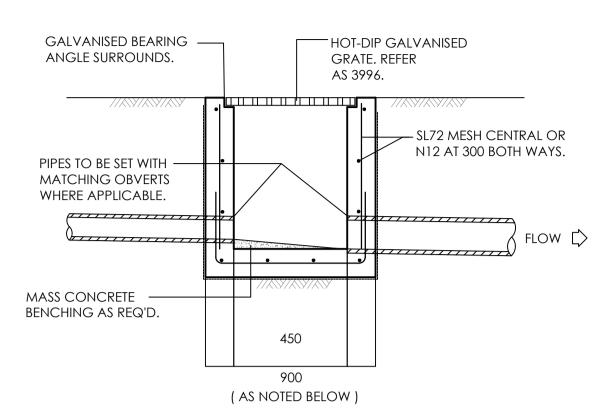
CONSTRUCTION - MANAGING URBAN STORMWATER, 2004. REFER TO THE BLUE BOOK FOR

SPECIFICATION & THE NSW DEPARTMENT OF HOUSING "BLUE BOOK" - SOILS AND



NOT TO BE USED FOR CONSTRUCTION



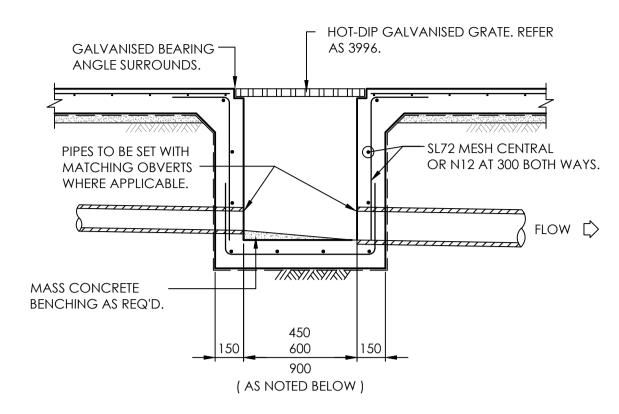


TYPICAL GRATED INLET PIT -NATURAL SURFACE

MINIMUM INTERNAL DIMENSIONS FOR STORMWATER PITS PIT MINIMUM INTERNAL DIMENSIONS (mm) DEPTH TO INVERT OF OUTLET LENGTH 450 450 600 > 900 900 STEP IRONS SHALL BE PROVIDED FOR PITS WITH DEPTHS EXCEEDING 1200mm

NOTES

- 1. REINFORCEMENT NOTED IS ONLY REQUIRED FOR PITS EXCEEDING 900 DEEP, SUBJECT TO COUNCIL REQUIREMENTS. PITS GREATER THAN 3000 DEEP WILL REQUIRE STRUCTURAL ENGINEERS DESIGN.
- 2. PROVIDE 90Ø x 3000 LONG SUBSOIL DRAINAGE STUB PIPE SURROUNDED WITH 100mm THICKNESS OF NOMINAL 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC. (BIDUM A24 OR APPROVED SIMILAR). TO BE PARALLEL TO UPSTREAM SIDE OF EACH
- 3. ALTERNATIVE PIT CONSTRUCTION MAY BE USED SUBJECT TO THE ENGINEERS APPROVAL.
- 4. CONCRETE STRENGTH F'c = 32 MPa

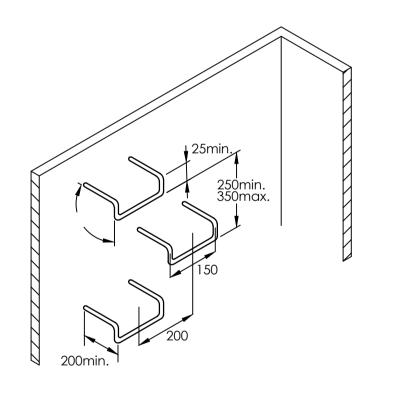


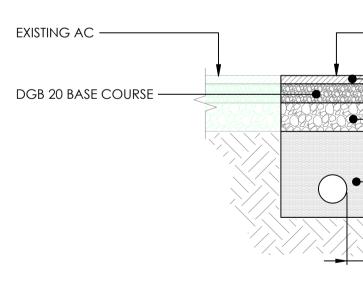
TYPICAL GRATED INLET PIT -CONCRETE SURFACE

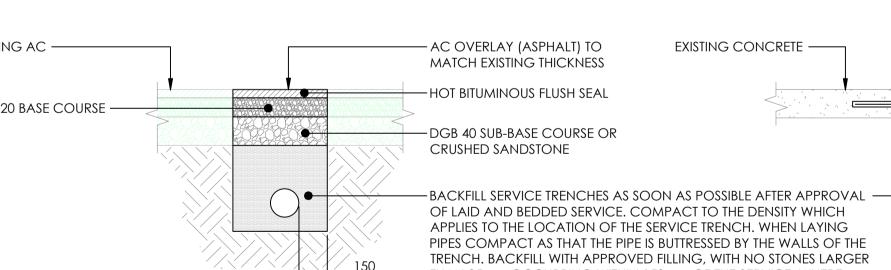
MINIMU	m internal dimei	nsions for stor	MWATER PITS
DEPTH TO INV	ERT OF OUTLET	PIT MINIMUM INTER	RNAL DIMENSIONS (mm)
		WIDTH	LENGTH
	< 600	450	450
> 600		600	600
> 900		600	900
> 1200		900	900
	·		

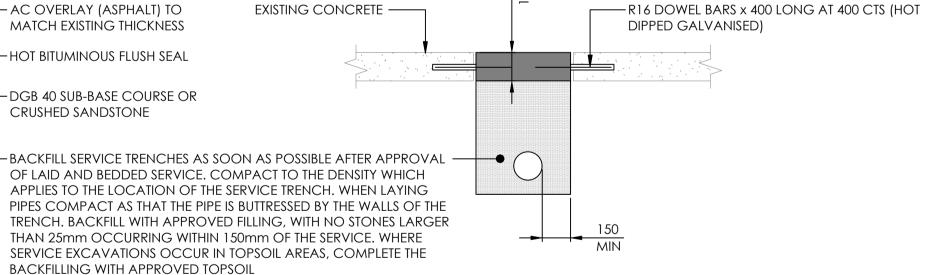
STEP IRONS SHALL BE PROVIDED FOR PITS WITH DEPTHS EXCEEDING 1200mm

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- 3. ALTERNATIVE PIT CONSTRUCTION MAY BE USED SUBJECT TO THE ENGINEERS APPROVAL.
- 4. CONCRETE STRENGTH F'c = 32 MPa





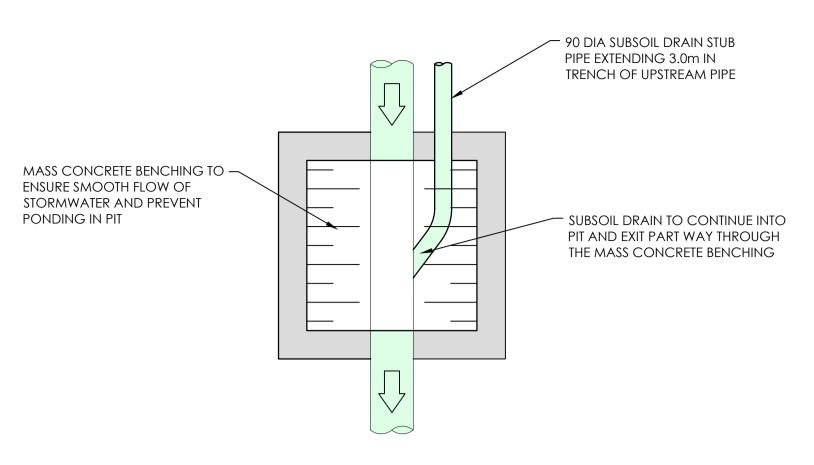




STEP IRON DETAIL

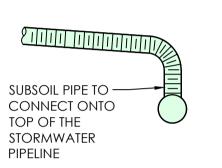
TYPICAL SERVICE TRENCH DETAIL

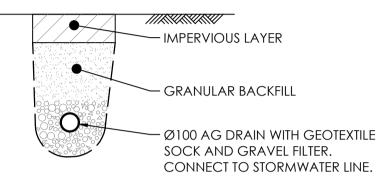
SCALE 1:20



TYPICAL SUBSOIL PIPE/PIT BENCHING

SCALE 1:20

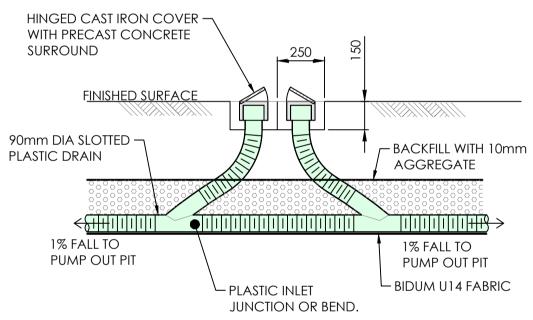




SUBSOIL PIPE CONNECTION

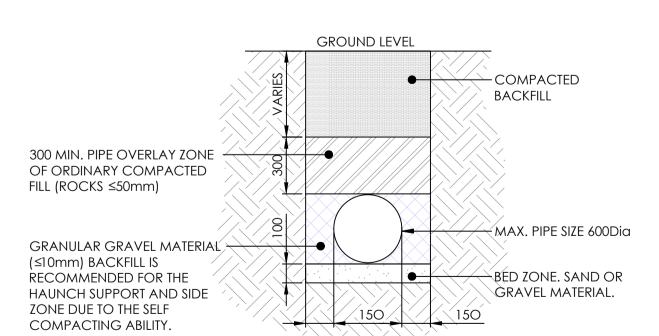
N.T.S

TYPICAL SUBSOIL LINE N.T.S

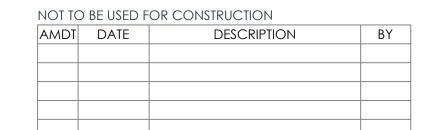


 MINIMUM GRADE OF SUBSOIL DRAINAGE PIPES IS TO BE 1.0%. JOINTS IN FILTER FABRIC TO BE LAPPED A MINIMUM 300mm.

SUBSOIL PIPE FLUSHING POINT



TYPICAL SCHEMATIC PIPE TRENCH DETAIL SCALE 1:20



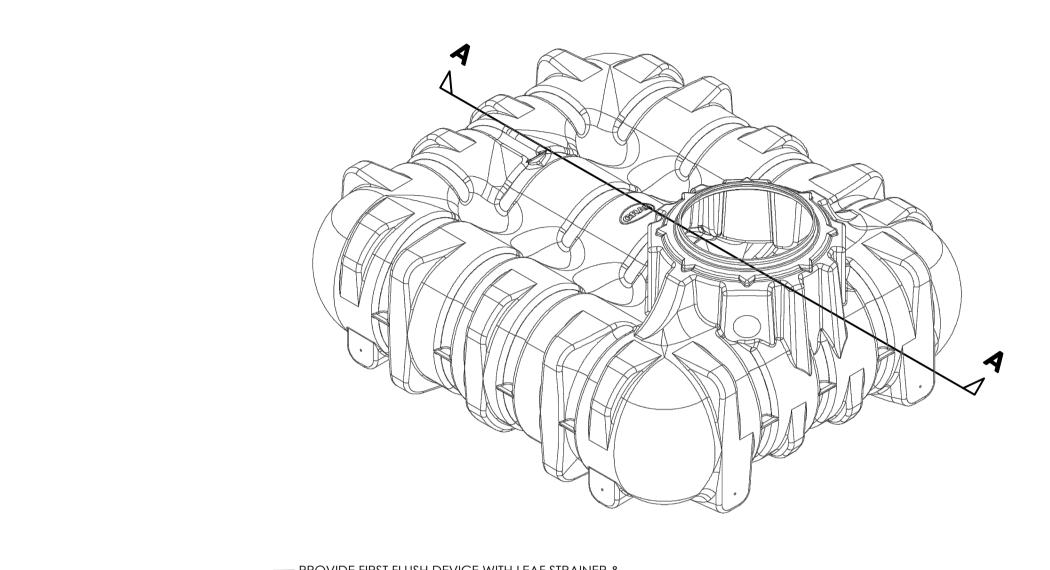


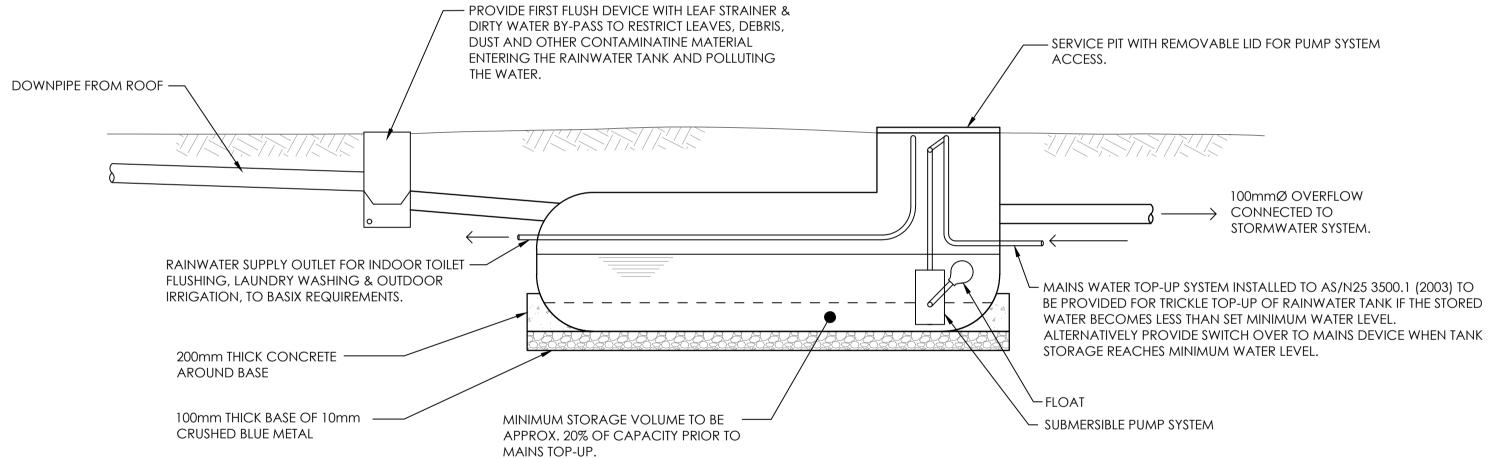










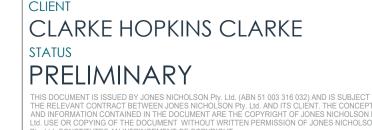


SECTION A-A UNDERGROUND RAINWATER TANK DETAIL

4 x 3,000 LITRE CAPACITY UNDERGROUND RAINWATER TANKS.

NOT TO BE USED FOR CONSTRUCTION				
AMDT	DATE	DESCRIPTION	BY	
1	17.12.21	ISSUED FOR SSDA CONCEPT	DM	



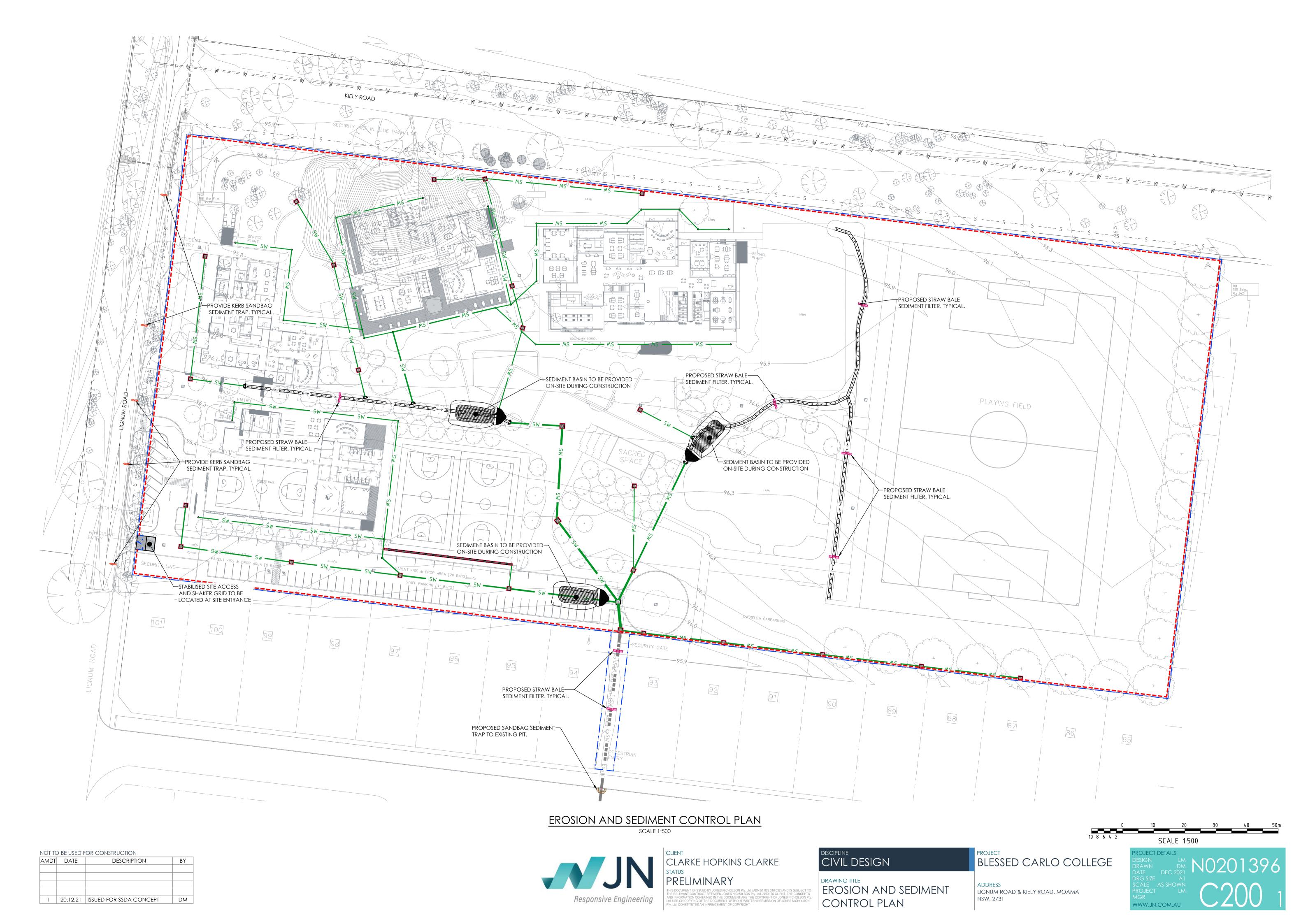


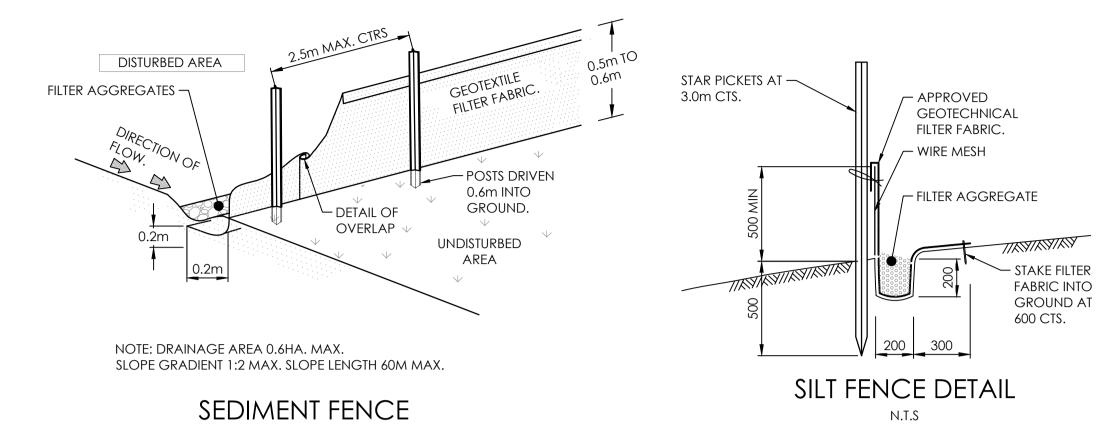


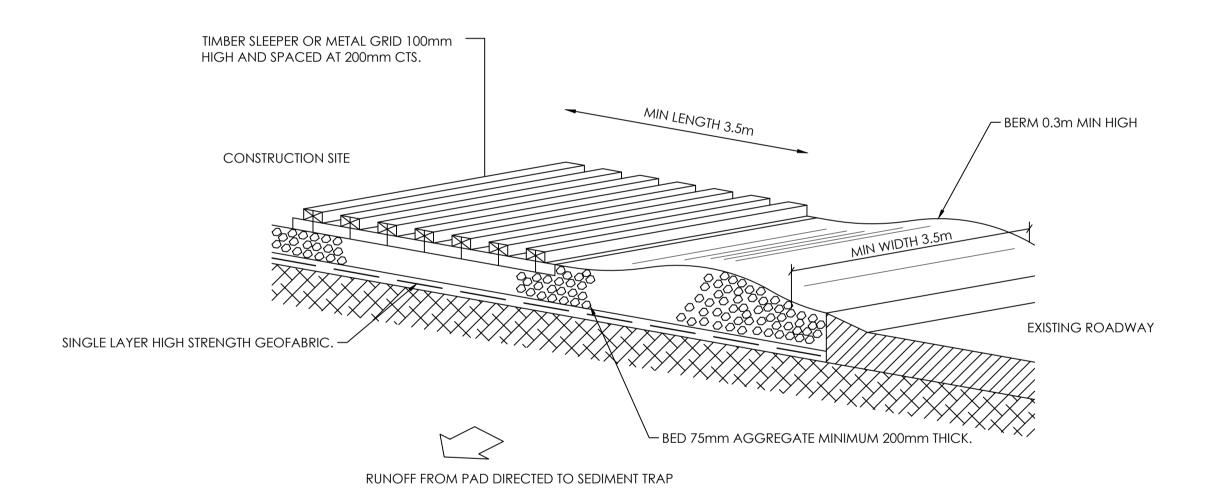
PROJECT
BLESSED CARLO COLLEGE

ADDRESS
LIGNUM ROAD & KIELY ROAD, MOAMA
NSW, 2731









STABLISED SITE ACCESS

GENERAL CONSTRUCTION NOTES

TO THE CONTOURS OF THE SITE.

1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL

5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.

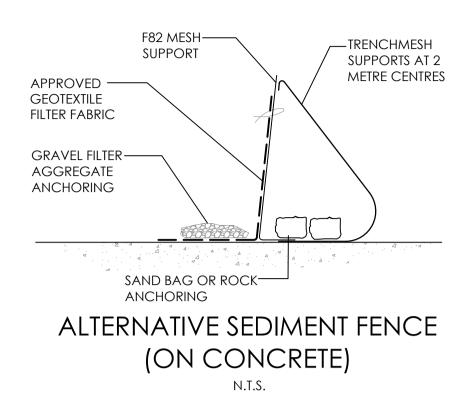
6. JOIN SECTIONS OF FABRIC AT A SUPPORT WITH A 150mm OVERLAP.

3. DIG A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE

2. DRIVE 1.5m LONG STAR PICKETS IN GROUND 3m APART.

FENCE FOR THE FABRIC TO BE ENTRENCHED.

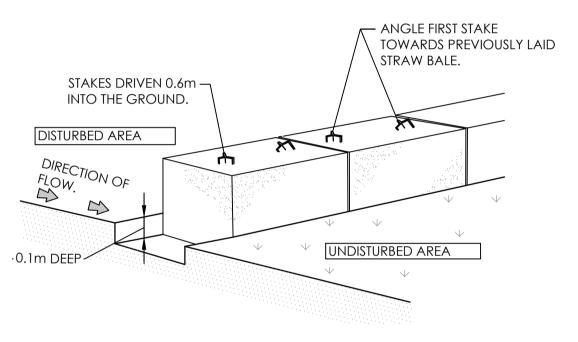
4. BACKFILL TRENCH OVER BASE OF FABRIC



GENERAL CONSTRUCTION NOTES

- 1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL
- TO THE CONTOURS OF THE SITE.

 2. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH
- WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
- 3. JOIN SECTIONS OF FABRIC AT A SUPPORT WITH A 150mm OVERLAP.
- 4. REFER TO DETAIL SD 6-9 "BLUE BOOK"



* DRAINAGE AREA 0.4HA MAX. SLOPE GRADIENT 1:2 MAX. SLOPE LENGTH 40m MAX.

STRAW BALE SEDIMENT FILTER

STRAW BALE CONSTRUCTION NOTES

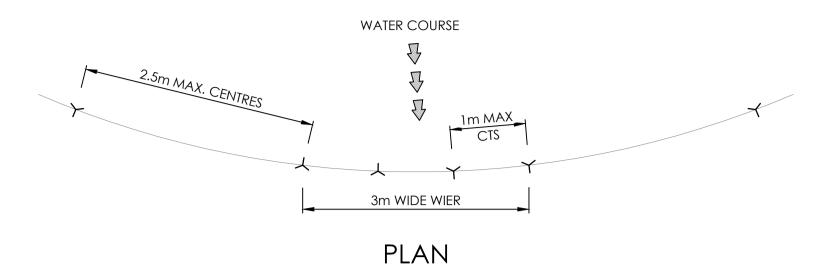
1. CONSTRUCT STRAW BALE FILTER AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR THE TOE OF A SLOPE. 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS TO BE PLACED PARALLEL TO GROUND.

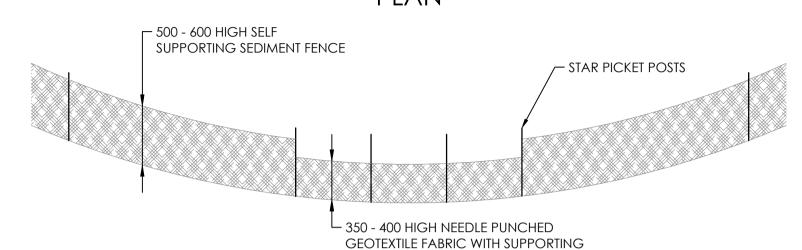
3. MAXIMUM HEIGHT OF FILTER IS ONE BALE.

4. ON SOFT MATERIALS EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2m STAR PICKETS. ANGLE THE FIRST STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE STAKES 600mm INTO THE GROUND AND FLUSH WITH THE TOP OF THE BALES.

5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER THE BALES SHOULD BE LOCATED 1.5 TO 2m DOWNSLOPE FROM THE TOE OF THE

6. STRAW BALES TO BE WRAPPED IN APPROVED GEOTEXTILE FABRIC.





REINFORCEMENT MESH

SEDIMENT FENCE WEIR AT CONCENTRATED FLOW LOCATIONS

DROP INLET WITH GRATE

STAKES

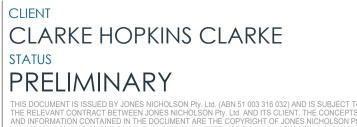
GEOTEXTILE FILTER FABRIC DROP INLET SEDIMENT TRAP DETAIL

NOT TO BE USED FOR CONSTRUCTION

AMDT DATE DESCRIPTION BY

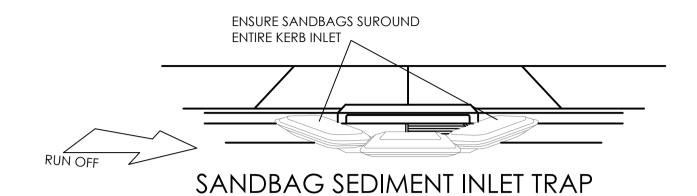
1 20.12.21 ISSUED FOR SSDA CONCEPT DM



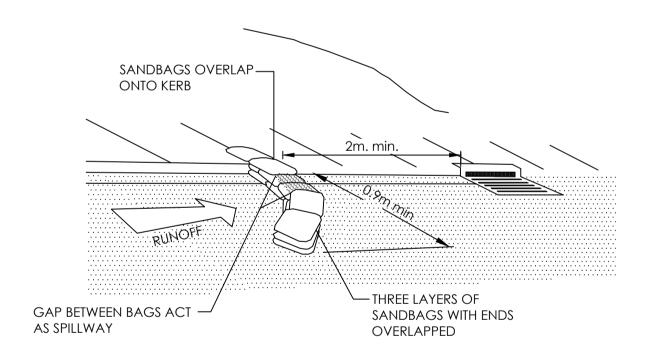




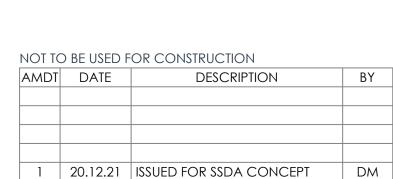




- 1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT.
- 2. FILL THE SLEEVE WITH 25mm TO 50MM GRAVEL.
- 3. FORM AN ELIPTICAL CROSS SECTION ABOUT 150mm HIGH X 400mm
- 4. PLACE THE FILTER AT THE OPNEING OF THE KERB INLET LEAVING A 100MM GAP AT THE TOP TO ACT AS AN EMERGENCY SPILL WAY.
- 5. MAINTAIN A CLEAR DISTANCE AWAY FROM THE PIT WITH SPACER BLOCKS.
- 6. FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER.
- 7. FIT TO ALL KERB INLETS AS SHOWN.



SANDBAG KERB SEDIMENT TRAP







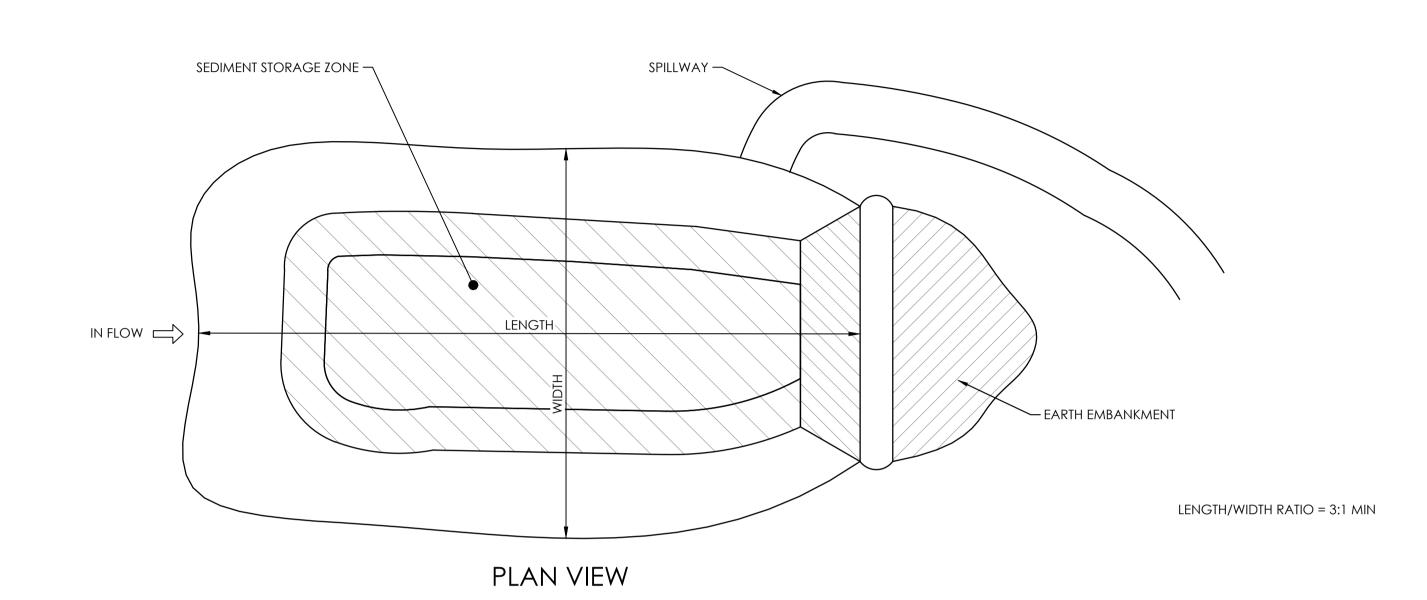


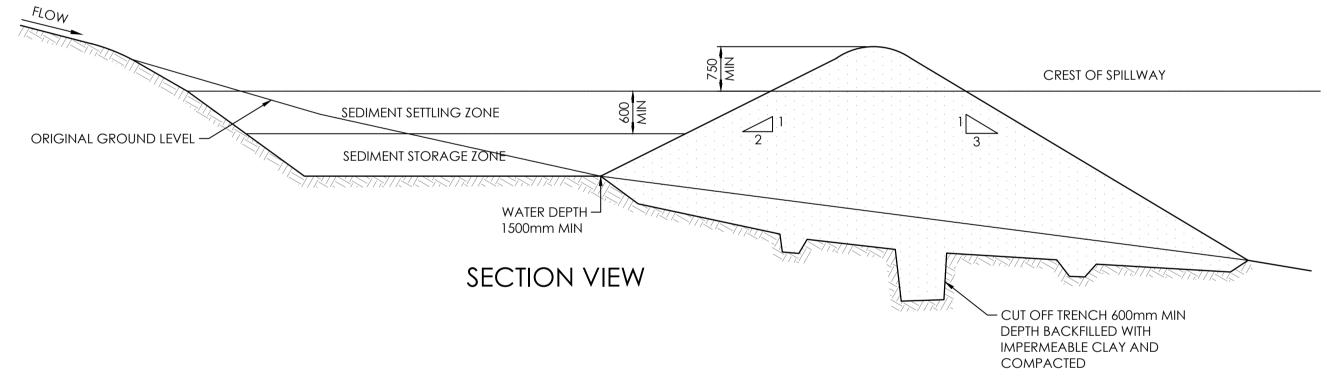
BLESSED CARLO COLLEGE

LIGNUM ROAD & KIELY ROAD, MOAMA

NSW, 2731







EARTH BASIN - WET N.T.S

GENERAL CONSTRUCTION NOTES

- 1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
- 2. CONSTRUCT A CUT-OFF TRENCH 600mm DEEP AND 1200mm WIDE ALONG THE CENTERLINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
- 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT SPECIFIED IN THE SWMP TO 95% STANDARD PROCTOR
- 4. SELECT FILL ACCORDING TO THE DIRECTIONS OF THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL
- 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING AT LEAST 100mm DEEP TO HELP BOND COMPACT FILL TO EXISTING SUBSTRATE
- 6. SPREAD FILL IN 100mm TO 150mm LAYERS AND COMPACT AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH SWMP.
- 7. CONSTRUCT EMERGENCY SPILLWAY. 8. REHABILITATE STRUCTURE IN ACCORDANCE WITH THE SWMP.
- 9. PLACE A "FULL OF SEDIMENT" MARKER TO SHOW WHEN LESS THAN DESIGN CAPACITY OCCURS AND SEDIMENT REMOVAL IS REQUIRED. 10. BASIN MUST BE FULLY DRAINED BETWEEN STORM EVENTS TO ENSURE THE BASINS HAVE THE REQUIRED STORAGE VOLUME PRIOR TO THE START OF
- 11. THIS SOIL IS HIGHLY SUSCEPTIBLE TO TUNNELING OR PIPING FAILURE. IT MUST BE WELL COMPACTED THROUGHOUT TO REDUCE PERMEABILITY AND SATURATION SETTLEMENT. THE SOIL SHOULD BE COMPACTED TO AT LEAST 90% MDD BY ENSURING ADEQUATE MOISTURE CONTENT. IF DRIER THAN OPTIMUM, GYPSUM OR HYDRATED LINE SHOULD BE INCORPORATED INTO THE SOIL AT RATES BASED ON LABORATORY TESTING - THE METHOD TO BE DETERMINED BY SITE AND EQUIPMENT CONSTRAINTS. FOR ADDITIONAL STABILITY, THE STRUCTURE SHOULD BE DESIGNED TO HOLD NO MORE THAN 1.0m OF WATER AGAINST THE WALL AND BATTER GRADES SHOULD BE DECREASED TO 3.5:1 (H:V) UPSTREAM AND 3:1 (H:V) DOWNSTREAM.

