PROSPECT LOGISTICS ESTATE - SSDA 10399

44 CLUNIES ROSS STREET, GREYSTANES, NSW

STATE SIGNIFICANT DEVELOPMENT APPLICATION

DRAWING LIST

DRAWING NO.	DRAWING TITLE
C013251.06-DA10	DRAWING LIST & GENERAL NOTES
C013251.06-DA20	EROSION & SEDIMENT CONTROL PLAN
C013251.06-DA25	EROSION & SEDIMENT CONTROL DETAILS
C013251.06-DA30	BULK EARTHWORKS LEVELS PLAN
C013251.06-DA31	BULK EARTHWORKS CUT/FILL PLAN
C013251.06-DA35	BULK EARTHWORKS SECTIONS - SHEET 1
C013251.06-DA36	BULK EARTHWORKS SECTIONS - SHEET 2
C013251.06-DA37	BULK EARTHWORKS SECTIONS - SHEET 3
C013251.06-DA40	CONCEPT STORMWATER MANAGEMENT PLAN
C013251.06-DA41	CONCEPT STORMWATER DRAINAGE PLAN - SHEET 1
C013251.06-DA42	CONCEPT STORMWATER DRAINAGE PLAN - SHEET 2
C013251.06-DA44	REGIONAL CATCHMENT PLAN
C013251.06-DA45	CONCEPT STORMWATER DRAINAGE DETAILS
C013251.06-DA47	BASIN WORKS PLAN
C013251.06-DA48	BASIN SECTIONS
C013251.06-DA51	FINISHED LEVELS PLAN - SHEET 1
C013251.06-DA52	FINISHED LEVELS PLAN - SHEET 2
C013251.06-DA55	TYPICAL SECTIONS - SHEET 1
C013251.06-DA56	TYPICAL SECTIONS - SHEET 2

SITE PREPARATION NOTES:

1. ALL EARTHWORKS SHALL BE COMPLETED GENERALLY IN ACCORDANCE WITH THE GUIDELINES SPECIFIED BY THE GEOTECHNICAL REPORT.
2. EXISTING LEVELS ARE BASED ON THE SURVEY INFORMATION PROVIDED.
3. STRIP ANY TOP SOIL OR DELETERIOUS MATERIAL AND DISPOSE OF FROM SITE OR STORE AS DIRECTED.
4. COMPLETE CUT TO FILL EARTHWORKS TO ACHIEVE THE REQUIRED LEVELS AS INDICATED ON THE DRAWINGS WITHIN A TOLERANCE OF +0mm/-10mm THROUGH BUILDING PADS/PAVEMENTS AND +0mm/-20mm ELSEWHERE.
5. PREPARE STEEP BATTERS TO RECEIVE FILL BY CONSTRUCTING BENCHING TO FACILITATE FILL PLACEMENT AND COMPACTION.
6. AREAS TO RECEIVE FILL (THAT ARE NOT ON BENCHED BATTERS) AND AREAS IN CUT SHALL BE PROOF ROLLED TO IDENTIFY ANY SOFT HEAVING MATERIAL. SOFT MATERIAL SHALL BE BOXED OUT AND REMOVED PRIOR TO FILL PLACEMENT. PROOF ROLLING TO BE INSPECTED BY A GEOTECHNICAL ENGINEER OR THE EARTHWORKS DESIGNER.
7. SITE WON FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HILF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HILF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.
8. IMPORTED FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HILF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HILF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.
9. ALL ENGINEERED FILL PARTICLES SHALL BE ABLE TO BE INCORPORATED WITHIN A SINGLE LAYER. FURTHER, LESS THAN 30% OF PARTICLES SHALL BE RETAINED ON THE 37.5 mm SIEVE. ENGINEERED FILL SHALL BE ABLE TO BE TESTED IN ACCORDANCE WITH THE STANDARD COMPACTION METHOD (AS1289.5.4.1) OR HILF TEST METHOD (AS1289.5.7.1). THESE METHODS REQUIRE LESS THAN 20% RETAINED ON THE 37.5 mm SIEVE. WHERE BETWEEN 20% AND 30% OF PARTICLES ARE RETAINED ON THE 37.5 mm SIEVE THE ABOVE TEST METHODS SHALL STILL BE ADOPTED AND TEST REPORTS ANNOTATED APPROPRIATELY. THESE REQUIREMENTS SHOULD BE MET BY THE MATERIAL AFTER PLACEMENT AND COMPACTION
10. ALL THE EARTHWORKS UNDERTAKEN AND THE SUBGRADE CONDITION IN THE CUT AREAS (IN THE STATED PERIOD) ARE DOCUMENTED IN THE REPORTS AND HAVE BEEN UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION (EG. COSTIN ROE SITE PREPARATION NOTES IN DWG C013003.01-EWC10)
11. PRIOR TO ANY EARTHWORKS, EROSION CONTROL AS OUTLINED IN THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE COMPLETED.
12. EXISTING ROCK, IF ANY, SHALL BE REMOVED BY HEAVY ROCK BREAKING OR RIPPING.
13. MATCH EXISTING LEVELS AT BATTER INTERFACE.
14. CONTRACTOR TO MATCH EXISTING LEVELS AT THE INTERFACE OF EARTHWORKS AND EXISTING SURFACE AT BATTER LOCATIONS OR WHERE NO RETAINING WALLS ARE PRESENT. ANY DISCREPANCY BETWEEN DESIGN AND EXISTING LEVELS TO BE REFERRED TO THE ENGINEER FOR DIRECTION OR ADJUSTMENTS TO DESIGN LEVELS.

ELECTRONIC INFORMATION NOTES:

1. THE ISSUED DRAWINGS IN HARD COPY OR PDF FORMAT TAKE PRECEDENCE OVER ANY ELECTRONICALLY ISSUED INFORMATION, LAYOUTS OR DESIGN MODELS.
2. THE CONTRACTOR'S DIRECT AMENDMENT OR MANIPULATION OF THE DATA OR INFORMATION THAT MIGHT BE CONTAINED WITHIN AN ENGINEER-SUPPLIED DIGITAL TERRAIN MODEL AND ITS SUBSEQUENT USE TO UNDERTAKE THE WORKS WILL BE SOLELY AT THE DISCRETION OF AND THE RISK OF THE CONTRACTOR.
3. THE CONTRACTOR IS REQUIRED TO HIGHLIGHT ANY DISCREPANCIES BETWEEN THE DIGITAL TERRAIN MODEL AND INFORMATION PROVIDED IN THE CONTRACT AND/OR DRAWINGS AND IS REQUIRED TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
4. THE ENGINEER WILL NOT BE LIABLE OR RESPONSIBLE FOR THE POSSIBLE ON-GOING NEED TO UPDATE THE DIGITAL TERRAIN MODEL, SHOULD THERE BE ANY AMENDMENTS OR CHANGES TO THE DRAWINGS OR CONTRACT INITIATED BY THE CONTRACTOR.

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANT'S 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.
2. 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.
3. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE.
   ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
   ENGINEER'S DRAWINGS ISSUED IN ANY ELECTRONIC FORMAT MUST NOT BE USED FOR DIMENSIONAL SETOUT.
   REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION.
4. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
5. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
6. 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.

EROSION CONTROL NOTES:

ALL CONTROL WORK INCLUDING DIVERSION BANKS AND CATCH DRAINS, V-DRAINS AND SILT FENCES SHALL BE COMPLETED DIRECTLY FOLLOWING THE COMPLETION OF THE EARTHWORKS.

1. SILT FENCES AND SILT FENCE RETURNS SHALL BE ERECTED CONVEX TO THE CONTOUR TO POND WATER.
2. HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
3. ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
4. CLEAR WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
6. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION.
7. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
8. ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS.
9. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200mm.
10. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
11. AFTER REVEGETATION OF THE SITE IS COMPLETE AND THE SITE IS STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SILT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
12. ALL TOPSOIL STOCKPILES ARE TO BE SUITABLY COVERED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION.
13. ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE.
14. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE SURROUNDING AREA BY USE OF THE MEASURES APPROVED IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
15. ACCESS AND EXIT AREAS SHALL INCLUDE SHAKE-DOWN OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FORM MOTOR VEHICLES.
16. THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED ESCP / SWMP.

FINISHED LEVELS PLAN NOTES:

1. LEVELS DATUM IS A.H.D.
2. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
3. THE MAJOR CONTOUR INTERVAL IS 0.5m
4. THE MINOR CONTOUR INTERVAL IS 0.1m.
5. MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%).
6. MAXIMUM PAVEMENT GRADE IS TO BE 1:20 (5%) IN CARPARKING AREAS AND 1:25 (4%) ELSEWHERE.
7. MAXIMUM RAMP GRADES ARE TO BE 1:12 (8.3%) U.N.O. ON PLAN
8. PROVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGES GRADE EXCEDE 1:20 (5%).
9. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H.
10. ALL BATTER SLOPES WITH GRADES AT OR EXCEEDING 1V:6H ARE TO BE TURFED IMMEDIATELY, OR APPROPRIATE EROSION CONTROL IS TO BE PROVIDED TO THE SATISFACTION OF THE ENGINEER.
11. THE ACCESS ROAD TO THE HARDSTAND AREA IS TO HAVE A CROSSFALL OF 2% AS INDICATED ON PLAN.
12. ALL FOOTPATHS ARE TO FALL AWAY FROM THE BUILDING AT 2.5% NOMINAL GRADE.
13. ALL PAVEMENTS ARE TO BE SET AT 50mm BELOW THE FINISHED FLOOR LEVEL OF THE WAREHOUSE AND OFFICE AREAS.

STORMWATER DRAINAGE NOTES:

1. ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3:2003 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
2. THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 20 YEAR ARI STORM EVENT AND THE MAJOR (OVERLAND) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT.
3. ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS DA51 & DA52.
4. PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
5. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
6. ALL STORMWATER PIPES Ø375 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
7. ALL PIPES UP TO AND INCLUDING Ø300 TO BE uPVC GRADE SN8 UNO.
8. PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
9. ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTERED IN WALL AND BASE. LAP MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE F'c=25 MPa. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
10. IN ADDITION TO ITEM 6 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
11. PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMMERS OR OTHER SUITABLE TAMPING DETAILS.
12. CONCRETE PIPES UNDER, OR WITHIN THE ZONE OF INFLUENCE OF PAVED AREAS SHALL BE LAID USING HS2 TYPE SUPPORT, AS A MINIMUM, IN ACCORDANCE WITH AS 3725. AGGREGATE BACKFILL SHALL NOT BE USED FOR PIPE BEDDING AND OR HAUNCH/SIDE SUPPORT.
13. WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED Ø100 uPVC TO EACH SIDE OF PIPE.
14. ALL SUBSOIL DRAINAGE LINES SHALL BE Ø100 SLOTTED uPVC WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT/ LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
15. ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
16. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
17. MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
18. PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY', THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' U.N.O.
19. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
20. DOWN PIPES (DP) TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE U.N.O. ON PLAN. PROVIDE CLEANING EYE AT GROUND LEVEL.
21. PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.



LOCALITY PLAN
NTS

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	D
ISSUED FOR INFORMATION	22.04.20	C
ISSUED FOR INFORMATION	19.03.20	B
ISSUED FOR INFORMATION	12.03.20	A

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PROJECT
STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
ID	ID	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA10

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DRAWING TITLE: DRAWING LIST & GENERAL NOTES

DRAWING No: C013251.06-DA10 ISSUE: D

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED.

- SILT FENCE
- SILT FENCE WITH CATCH DRAIN
- DIVERSION DRAIN
- EXISTING SYDNEY WATER MAIN
- EXISTING SEWER MAIN
- DIRECTION OF OVERLAND FLOW
- DENOTES CATCHMENT 1
- DENOTES CATCHMENT 2
- DENOTES CATCHMENT 3

SEDIMENTATION BASIN NOTE:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C013251.06-DA25.
SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'. CAPACITY BASED UPON 5 DAY RAINFALL DEPTH AT 85th PERCENTILE INTENSITY (32.2mm).

APPROXIMATE AREA OF DISTURBED SITE = 17.8 ha

SEDIMENT BASIN 1:
CATCHMENT AREA = 6.44 ha
REQUIRED BASIN VOLUME = 1,555m³
BASE DIMENSIONS (L X W) = 20m x 38m
TOP DIMENSIONS (L X W) = 29m x 47m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 1,570m³

SEDIMENT BASIN 2:
CATCHMENT AREA = 6.18 ha
REQUIRED BASIN VOLUME = 1,492m³
BASE DIMENSIONS (L X W) = 19m x 38m
TOP DIMENSIONS (L X W) = 28m x 47m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 1,506m³

SEDIMENT BASIN 3:
CATCHMENT AREA = 5.17 ha
REQUIRED BASIN VOLUME = 1,249m³
BASE DIMENSIONS (L X W) = 17m x 34m
TOP DIMENSIONS (L X W) = 26m x 43m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 1,250m³

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN EXTREME RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO COUNCIL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

NOTES:
1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)

EXISTING DN1200 SYDNEY WATER MAIN
10m WIDE EASEMENT
PROVIDE DIVERSION DRAIN TO SEDIMENT BASIN
PROVIDE SILT FENCE
SEDIMENT BASIN 2. REFER NOTES
PROVIDE SILT FENCE
EXISTING DN225 SEWER MAIN
STABILISED CONSTRUCTION ENTRY. REFER TO DETAIL ON DRAWING DA25
PROVIDE SILT FENCE
SEDIMENT BASIN 3. REFER NOTES
PROVIDE DIVERSION DRAIN TO SEDIMENT BASIN
SEDIMENT BASIN 1. REFER NOTES
EXISTING DN375 SEWER MAIN
PROVIDE SILT FENCE
PROVIDE COMPACTED EARTH BUND 1m WIDE 300 HIGH
PROVIDE DIVERSION DRAIN TO SEDIMENT BASIN
PROVIDE DIVERSION DRAIN TO SEDIMENT BASIN
PROVIDE COMPACTED EARTH BUND 1m WIDE 300 HIGH
PROVIDE DIVERSION DRAIN TO SEDIMENT BASIN
CLEAN WATER DIVERSION BUND TO DIVERT RUNOFF FROM UNDISTURBED LAND AROUND WORKS AREA
PROVIDE DIVERSION DRAIN TO SEDIMENT BASIN
PROVIDE SILT FENCE
SHADED AREA DENOTES UNDISTURBED LAND.
STABILISED CONSTRUCTION ENTRY. REFER TO DETAIL ON DRAWING DA25
PROVIDE SILT FENCE
STABILISED CONSTRUCTION ENTRY. REFER TO DETAIL ON DRAWING DA25
PROVIDE SILT FENCE
STABILISED CONSTRUCTION ENTRY. REFER TO DETAIL ON DRAWING DA25
PROVIDE SILT FENCE
PROVIDE SILT FENCE
PROVIDE SILT FENCE
FOUNDATION PLACE
LOT 601 D.P. 1047403
LOT 10 D.P. 1022044
LOT 216 D.P. 1030744
LOT 3
LOT 2
CLUNIES ROSS STREET

EROSION SEDIMENT CONTROL PLAN
SCALE 1:750

6m 0 15 30 45 60 75m
SCALE 1:750 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	B
ISSUED FOR INFORMATION	19.03.20	A

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PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA20

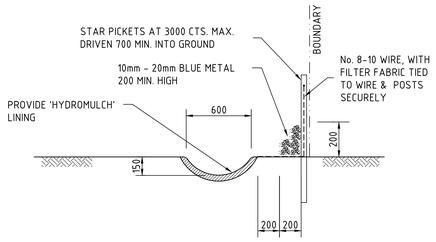
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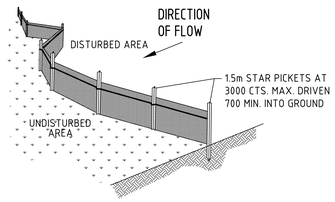
DRAWING TITLE: EROSION SEDIMENT CONTROL PLAN

DRAWING NO: C013251.06-DA20 ISSUE: B



TYPICAL OPEN DRAIN & SILT FENCE

SCALE 1 : 20

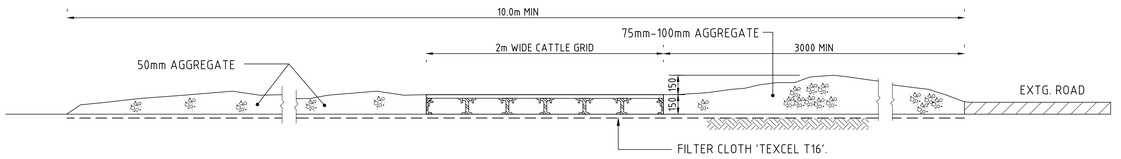


TYPICAL SILT FENCE DETAIL

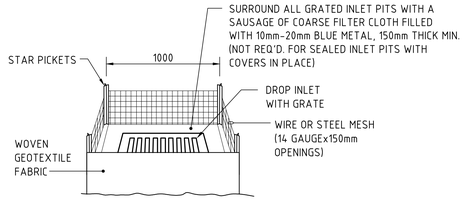
N.T.S.

PROVIDE 1m RETURNS AT 30m INTERVALS.

TYPICAL



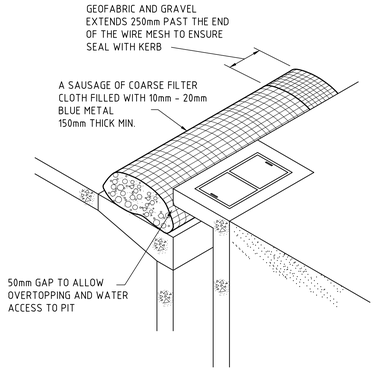
SECTION 1:20 (1 / C20) : STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'



GRATED INLET PIT FILTER DETAIL

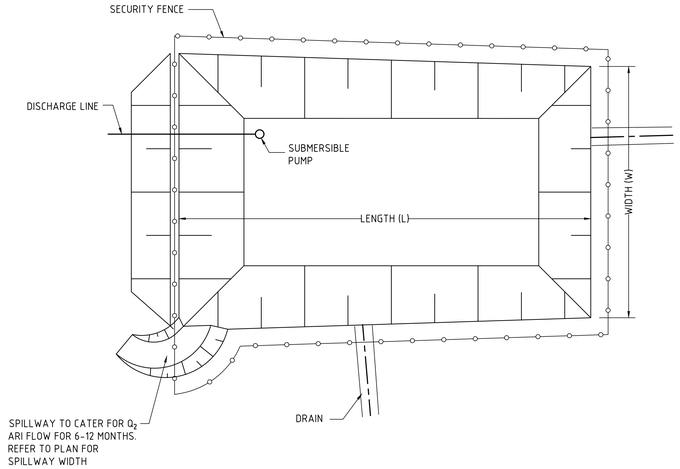
OPTION 1

N.T.S



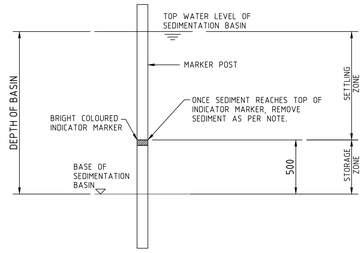
KERB INLET CONTROL

NTS



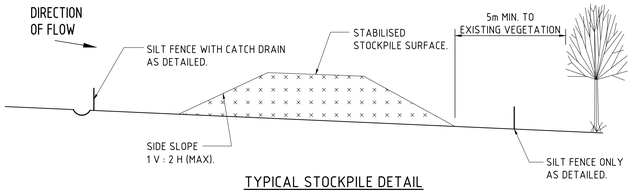
TYPICAL SEDIMENT CONTROL POND PLAN

SCALE 1:250



SEDIMENT STORAGE MARKER

SCALE 1:20

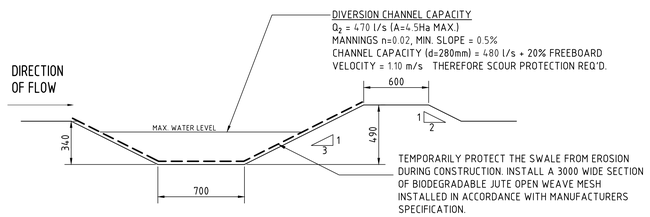


TYPICAL STOCKPILE DETAIL

N.T.S.

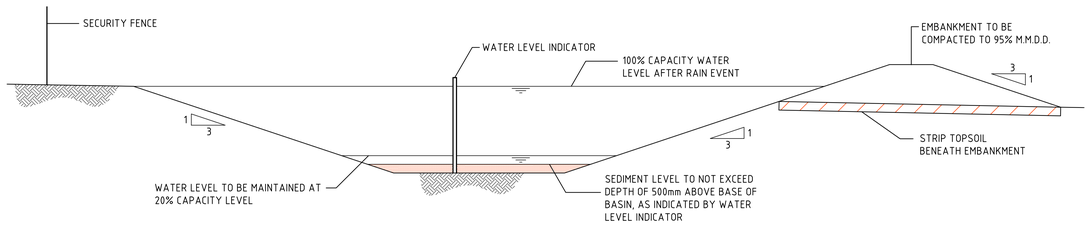
STOCKPILE NOTES

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 - 16 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.



DIVERSION DRAIN SECTION

SCALE 1:20



TYPICAL SEDIMENT CONTROL BASIN SECTION

SCALE 1:50

NOTES:

ALL EROSION & SEDIMENT CONTROL MEASURES TO BE INSPECTED & MAINTAINED DAILY BY SITE MANAGER.

MINIMISE DISTURBED AREAS.

ROADS & FOOTPATHS TO BE SWEPT DAILY.

1.2m TURF TO BE PLACED BEHIND KERBS.

DUST MINIMISATION CONTROL BY WATERING TO BE IMPLEMENTED BY SITE MANAGER AS REQUIRED OR AS DIRECTED BY THE EPA.

200mm 0 500 1000 1500 2000mm

SCALE 1:20 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	B
ISSUED FOR INFORMATION	19.03.20	A

ARCHITECT: SBA ARCHITECTS — Suite 702, 83 Mount Street, North Sydney NSW 2060 — t 02 9929 0688 f 02 9929 0699 — info@sbarch.com.au w www.sbarch.com.au

CLIENT: Aliro

PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD. REF.
ID	ID	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA25

Costin Roe Consulting Pty Ltd.
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Costin Roe Consulting

PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: EROSION & SEDIMENT CONTROL DETAILS

DRAWING No: C013251.06-DA25 ISSUE: B

EARTHWORKS VOLUMES

VOLUMES (APPROXIMATE ONLY):

STAGE 1

CUT	= – 100 900 m³
FILL	= + 57 000 m³
DETAILED EXCAVATION (1,500m³/Ha over 4.97Ha)	= – 7 500 m³
REINFORCED EARTH WALL BACKFILL	= – 37 600 m³
BALANCE	= – 89 000 m³ (EXPORT)

STAGE 2

CUT	= – 38 200 m³
FILL	= + 206 000 m³
WETLAND REGRADING	= ± 0 m³ (CUT/FILL BALANCE)
DETENTION BASIN REGRADING	= – 13 900 m³
DETAILED EXCAVATION (1,500m³/Ha over 12.62Ha)	= – 18 900 m³
REINFORCED EARTH WALL BACKFILL	= – 38 200 m³
BALANCE	= + 96 800 m³ (IMPORT)

OVERALL

STAGE 1 BULK EARTHWORKS	= – 89 000m³
STAGE 2 BULK EARTHWORKS	= + 96 800 m³
BALANCE	= + 7 800 m³ (IMPORT)

EARTHWORK VOLUMES ARE PRELIMINARY ONLY AND HAVE BEEN BASED ON A TOPSOIL STRIP/SLAB TRIM OF 200mm OVER THE ENTIRE SITE. THE VOLUMES HAVE ALSO BEEN BASED ON AN OVERALL PAVEMENT STRUCTURAL THICKNESS OF 300mm ACROSS THE SITE. NO ALLOWANCE HAS BEEN MADE IN THE ABOVE VOLUMES FOR EROSION & SEDIMENT CONTROL BACKFILLING, BULKING OR COMPACTION OF FILLED SOILS, THE REMOVAL OF UNCONTROLLED FILL OR CONTAMINATED MATERIAL, TEMPORARY DRAINAGE SWALES WITHIN BUILDING PADS, OR ANY OTHER UNSPECIFIED EXCAVATION RELATED TO FUTURE WAREHOUSE CONSTRUCTION.

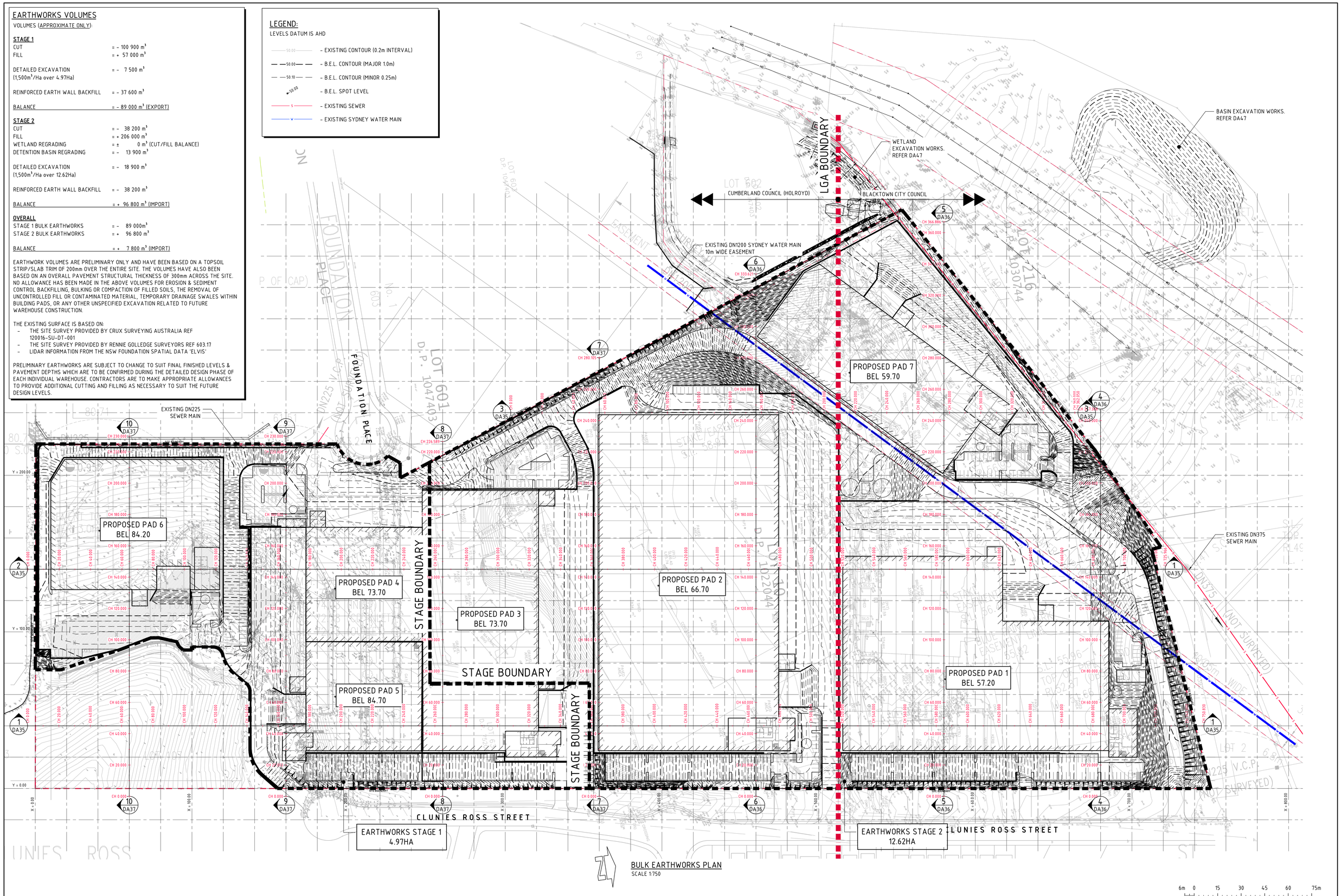
THE EXISTING SURFACE IS BASED ON:
- THE SITE SURVEY PROVIDED BY CRUX SURVEYING AUSTRALIA REF 120016-SU-DT-001
- THE SITE SURVEY PROVIDED BY RENNIE GOLLEDGE SURVEYORS REF 603.17
- LIDAR INFORMATION FROM THE NSW FOUNDATION SPATIAL DATA 'ELVIS'

PRELIMINARY EARTHWORKS ARE SUBJECT TO CHANGE TO SUIT FINAL FINISHED LEVELS & PAVEMENT DEPTHS WHICH ARE TO BE CONFIRMED DURING THE DETAILED DESIGN PHASE OF EACH INDIVIDUAL WAREHOUSE. CONTRACTORS ARE TO MAKE APPROPRIATE ALLOWANCES TO PROVIDE ADDITIONAL CUTTING AND FILLING AS NECESSARY TO SUIT THE FUTURE DESIGN LEVELS.

LEGEND:

LEVELS DATUM IS AHD

- 50.00 – EXISTING CONTOUR (0.2m INTERVAL)
- 50.00 – B.E.L. CONTOUR (MAJOR 1.0m)
- 50.10 – B.E.L. CONTOUR (MINOR 0.25m)
- 58.05 – B.E.L. SPOT LEVEL
- S – EXISTING SEWER
- W – EXISTING SYDNEY WATER MAIN



BULK EARTHWORKS PLAN
SCALE 1:750

6m 0 15 30 45 60 75m
SCALE 1:750 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

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ISSUED FOR INFORMATION	22.04.20	B
ISSUED FOR INFORMATION	19.03.20	A

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CLIENT: Aliro

PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA30

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Costin Roe Consulting
PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: BULK EARTHWORKS PLAN LEVELS PLAN
DRAWING No: C013251.06-DA30
ISSUE: C

LEGEND:

LEVELS DATUM IS AHD

- 50.00 – EXISTING CONTOUR (0.2m INTERVAL)
- 50.00 – B.E.L. CONTOUR (MAJOR 1.0m)
- 50.10 – B.E.L. CONTOUR (MINOR 0.25m)
- 50.00 – B.E.L. SPOT LEVEL
- S – EXISTING SEWER
- W – EXISTING SYDNEY WATER MAIN

DEPTH RANGE

No.	FROM DEPTH	TO DEPTH	COLOUR
1	-10.000	-8.000	
2	-8.000	-6.000	
3	-6.000	-4.000	
4	-4.000	-2.000	
5	-2.000	0.000	
6	0.000	2.000	
7	2.000	4.000	
8	4.000	6.000	
9	6.000	8.000	
10	8.000	10.000	

LGA BOUNDARY

CUMBERLAND COUNCIL (HOLROYD)

BLACKTOWN CITY COUNCIL

STAGE BOUNDARY

STAGE BOUNDARY

STAGE BOUNDARY

EARTHWORKS STAGE 1
4.97HA

EARTHWORKS STAGE 2
12.62HA

CLUNIES ROSS STREET

CLUNIES ROSS STREET

FOUNDATION PLACE

FOUNDATION PLACE

LOT 601 D.P. 1047403

LOT 602 D.P. 1047403

LOT 1 D.P. 1030744

LOT 2 D.P. 1030744

EASEMENT (SURVEYED) D.P. 1220225

DN375 (NOT SURVEYED)

DN225 (NOT SURVEYED)

M.H. FOUND
S.L. 78.06
I.L. 75.96 (INLET)
I.L. 75.91 (OUTLET)

M.S. FOUND
S.L. 77.34 (TOP OF CAP)
I.L. 75.19

0.95%

0.94%

BULK EARTHWORKS CUTFILL PLAN
SCALE 1:750

6m 0 15 30 45 60 75m
SCALE 1:750 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

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ISSUED FOR INFORMATION	22.04.20	B
ISSUED FOR INFORMATION	19.03.20	A

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CLIENT
Aliro

PROJECT
STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA31

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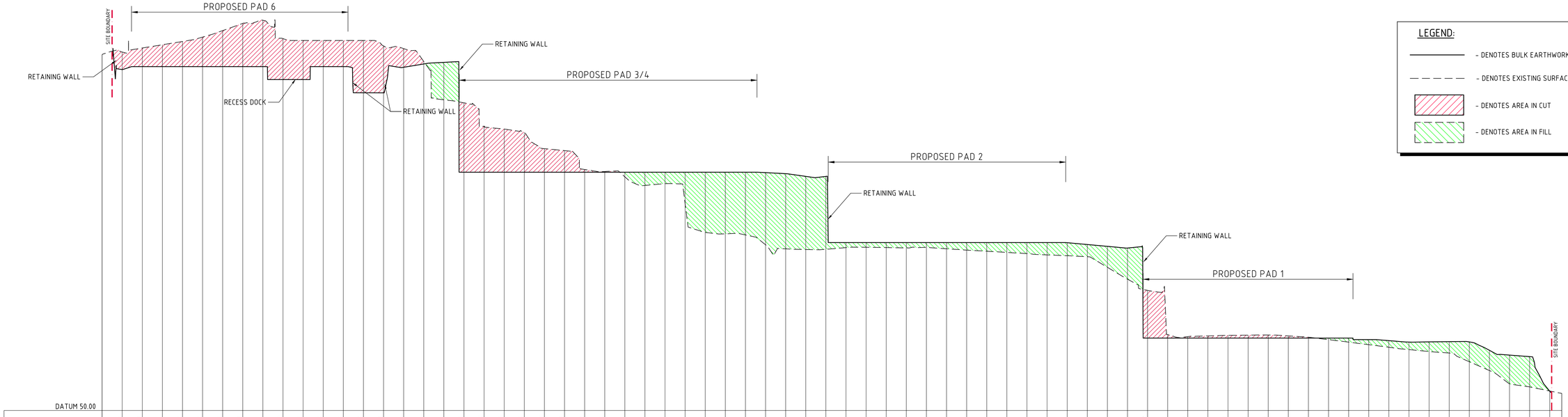
Costin Roe Consulting

PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE
BULK EARTHWORKS CUT/FILL PLAN

DRAWING No. C013251.06-DA31

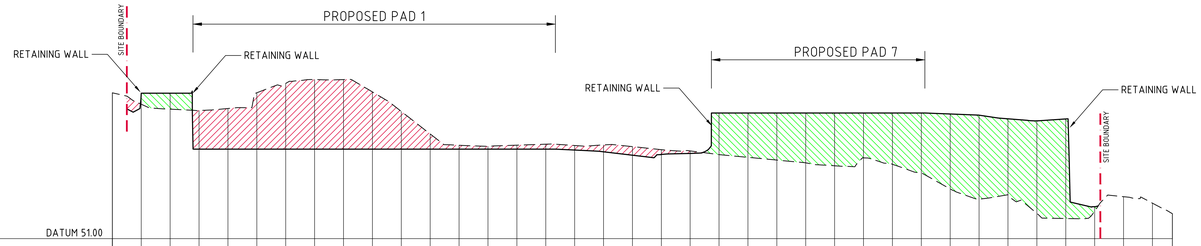
ISSUE C


PROPOSED PAD 6
SITE BOUNDARY
RETAINING WALL
RECESS DOCK
RETAINING WALL
RETAINING WALL
PROPOSED PAD 3/4
PROPOSED PAD 2
RETAINING WALL
RETAINING WALL
PROPOSED PAD 1
SITE BOUNDARY
LEGEND:
- DENOTES BULK EARTHWORKS SURFACE
- DENOTES EXISTING SURFACE LEVEL
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL

| DATUM 50.00 | | |

LEGEND:

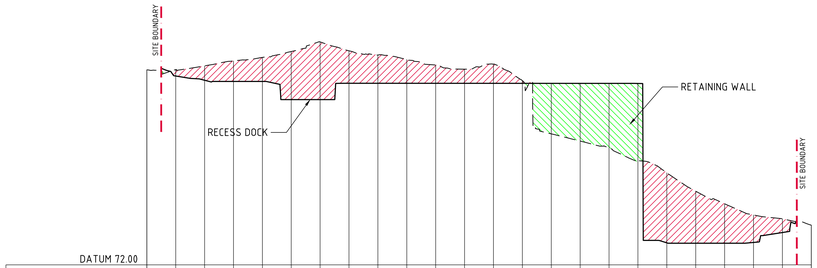
- DENOTES BULK EARTHWORKS SURFACE
- DENOTES EXISTING SURFACE LEVEL
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL



| DATUM 51.00 | | |

LEGEND:

- DENOTES BULK EARTHWORKS SURFACE
- DENOTES EXISTING SURFACE LEVEL
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL



| | | |

CATCHMENT BREAKDOWN

CATCHMENT	AREA	LGA	DISCHARGE LOCATION	WATER QUALITY REQUIREMENTS	WATER QUALITY REQUIREMENTS
1	6.10Ha	BLACKTOWN CITY COUNCIL	GIRRAWEEN CREEK	PIT INSERTS + STORMWATER QUALITY SYSTEM	REGIONAL DETENTION BASIN
2	8.55Ha	CUMBERLAND COUNCIL	GIRRAWEEN CREEK	ON-LOT GPT + REGIONAL WETLAND	REGIONAL DETENTION BASIN
3	2.94Ha	CUMBERLAND COUNCIL	FOUNDATION PLACE	ON-LOT GPT + REGIONAL WETLAND	REGIONAL DETENTION BASIN

BLACKTOWN CITY COUNCIL LGA

POLLUTANT REDUCTION TARGETS:

POLLUTANT	% POST DEVELOPMENT AVERAGE ANNUAL LOAD REDUCTION
GROSS POLLUTANTS	90
TOTAL SUSPENDED SOILS	85
TOTAL PHOSPHOROUS	65
TOTAL NITROGEN	45
TOTAL HYDROCARBONS	90

CUMBERLAND CITY COUNCIL LGA

POLLUTANT REDUCTION TARGETS:

POLLUTANT	% POST DEVELOPMENT AVERAGE ANNUAL LOAD REDUCTION
GROSS POLLUTANTS	70
COARSE SEDIMENT	80
FINE SEDIMENTS	0
TOTAL PHOSPHOROUS	0
TOTAL NITROGEN	0
TOTAL HYDROCARBONS	90

LEGEND:

- SW – PROPOSED DRAINAGE LINE
- – DENOTES CATCHMENT BOUNDARIES
- – CATCHMENT 1 AREA
- – CATCHMENT 2 AREA
- – CATCHMENT 3 AREA

NOTE:

ALL PITS WITHIN CATCHMENT 1 TO BE FITTED WITH OCEAN PROTECT OCEAN GUARD INSERTS.

REGIONAL WETLAND
EXISTING WETLAND BASIN TO BE MODIFIED TO CATER FOR LOST SURFACE AREA AND VOLUME. AREA COMPENSATION = 1130m2

REFER TO DRAWING C013251.06-DA47 FOR PROPOSED WETLAND WORKS.

LOW FLOW TO WETLAND.

HIGH FLOW DISCHARGE TO DETENTION BASIN.

GIRRAWEEN CREEK

WARMULLI RESERVE

REFER TO DRAWING C013251.06-DA47 FOR PROPOSED BASIN WORKS.

REGIONAL DETENTION BASIN
EXISTING DETENTION BASIN TO BE MODIFIED TO CATER FOR ADDITIONAL PAD 1 CATCHMENT.
REQUIRED FLOOD COMPENSATION = 14 100m³
REQUIRED OSD STORAGE = 2 780m³
TOTAL COMPENSATORY VOLUME = 16 880m³
SUBJECT TO COUNCIL APPROVAL.

INTER-ALLOTMENT (3.5m WIDE) EASEMENT

CATCHMENT 2 DISCHARGE
TO INTER-ALLOTMENT EASEMENT.

HIGH/LOW FLOW SPLITTER PIT.

GPT UNIT
ROCLA CDS P1512

CATCHMENT 3 DISCHARGE
TO FOUNDATION PLACE

GPT UNIT
ROCLA CDS P1512

FOUNDATION PLACE

LOT 601 D.P. 1047403

LOT 102 D.P. 1022044

CATCHMENT 3
AREA = 2.94Ha

CATCHMENT 2
AREA = 8.55Ha

CATCHMENT 1
AREA = 6.10Ha

PAD 1 DISCHARGE
TO DETENTION BASIN.
DISCHARGE TO REGIONAL BASIN SUBJECT TO COUNCIL CONFIRMATION.
REQUIRE 2780m³ STORAGE IF DISCHARGE TO BASIN NOT APPROVED.

STORMWATER QUALITY SYSTEM
REFER TO WATER QUALITY OBJECTIVES FOR BLACKTOWN CITY COUNCIL
100 OCEAN PROTECT FILTERS WITHIN 40m2 STORMFILTER CHAMBER OR APPROVED BIO-RETENTION OR OTHER PROPRIETY SYSTEMS.

M.H. FOUND
I.L. 49.80 INLET
I.L. 48.95 OUTLET

DN375 (NOT SURVEYED)

40.05m WIDE

3.2m

SITE BOUNDARY

SITE SUBJECT TO CUMBERLAND COUNCIL (HOLROYD) PART Q DCP 2013.

SITE SUBJECT TO BLACKTOWN CITY COUNCIL PART J DCP 2015.

LGA BOUNDARY

CLUNIES ROSS STREET

CONCEPT STORMWATER MANAGEMENT PLAN
SCALE 1:750

6m 0 15 30 45 60 75m
SCALE 1:750 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	C
ISSUED FOR INFORMATION	22.04.20	B
ISSUED FOR INFORMATION	13.03.20	A

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CLIENT: Aliro

PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA40

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Costin Roe Consulting
PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: CONCEPT STORMWATER MANAGEMENT PLAN

DRAWING No: C013251.06-DA40 ISSUE: C

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LTS LOCKLEY DATED 16/01/20.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- ROOFWATER LINE
- SUBSOIL LINE
- EXISTING SYDNEY WATER LINE
- EXISTING SEWER LINE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES ROOF AREA DRAINING TO RAINWATER TANK

STORMWATER DISCHARGE POINT 1
DISCHARGE TO EXISTING 825ø STUB AND DRAINAGE IN FOUNDATION PLACE AT IL 71.72

STORMWATER QUALITY TREATMENT DEVICE 1
ROCLA CDS P1512
2400W x 1500H x 3600L

STORMWATER QUALITY TREATMENT DEVICE 2.
ROCLA CDS P1512
1800W x 1200H x 3600L

STORMWATER LOW FLOW DISCHARGE
DISCHARGE LOW FLOW TO EXISTING WETLAND AT IL 54.70 FOR STORMWATER QUALITY TREATMENT

MATCH LINE

RETAINING WALL 1
RETAINING WALL 2
RETAINING WALL 3
RETAINING WALL 4
RETAINING WALL 5
RETAINING WALL 6
RETAINING WALL 11
RETAINING WALL 12
RETAINING WALL 13
RETAINING WALL 14
RETAINING WALL 15
RETAINING WALL 16
RETAINING WALL 17
RETAINING WALL 18

EXISTING RETAINING WALL
CONSTRUCT WALL OVER EXISTING SEWER LINE. SUBJECT TO SYDNEY WATER REQUIREMENTS

PROPOSED WAREHOUSE 2
FFL = 67.00 ± 500mm

PROPOSED WAREHOUSE 3
FFL = 74.00 ± 500mm

PROPOSED WAREHOUSE 4
FFL = 74.00 ± 500mm

PROPOSED WAREHOUSE 5
FFL = 85.00 ± 500mm

PROPOSED WAREHOUSE 6
FFL = 84.50 ± 500mm

1300 DEEP RECESS DOCK

BELOW GROUND 100KL RAINWATER TANK.

ABOVE GROUND 100KL RAINWATER TANK.

ABOVE GROUND 120KL RAINWATER TANK

BELOW GROUND 150kL RAINWATER TANK

ABORIGINAL HERITAGE AREA

BATTER 1V:3H MAX TO EXISTING LEVEL AT BOUNDARY

PROVIDE INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH CUMBERLAND CITY COUNCIL REQUIREMENTS

SITE SUBJECT TO CUMBERLAND COUNCIL (HOLROYD) PART Q DCP 2013.

SITE BOUNDARY

LOT 601 D.P. 1047403

FOUNDATION PLACE

CLUNIES ROSS STREET

LOT 3

LOT 10 D.P. 1022044

LGA BOUNDARY

BREAKLINE - REFER TO DRAWING DA42 FOR CONTINUATION

CONCEPT STORMWATER DRAINAGE - SHEET 1
SCALE 1:500

SCALE 1:500 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

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CLIENT: Aliro

PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA41

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Costin Roe Consulting

PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: CONCEPT STORMWATER DRAINAGE PLAN SHEET 1

DRAWING No: C013251.06-DA41 ISSUE: C

BREAKLINE - REFER TO ADJACENT PLAN FOR CONTINUATION

BREAKLINE - REFER TO DRAWING DA41 FOR CONTINUATION

MATCH LINE

STORMWATER LOW FLOW DISCHARGE
DISCHARGE LOW FLOW TO EXISTING WETLAND AT IL 54.70 FOR STORMWATER QUALITY TREATMENT

STORMWATER QUALITY TREATMENT DEVICE 2.
ROCLA CDS P1512
1800W x 1200H x 3600L

1300 DEEP RECESS DOCK

REGIONAL DETENTION BASIN
REFER DA47

RETAINING WALL 10

CLEAR VEGETATION & CLEAN EXISTING CONCRETE CHANNEL. UPGRADE TO 1200ϕ INGROUND PIPE IF REQUIRED

PROPOSED WAREHOUSE 7
FFL = 60.00 ± 500mm

BUILDING FOOTINGS TO BE PIERED AND FOUNDED BELOW ZOI OF SEWER

1200ϕ STORMWATER PIPE CROSSES EXISTING SEWER PIPE. 2m CLEARANCE

ABOVE GROUND 100KL RAINWATER TANK.

STORMWATER DISCHARGE POINT 3
1200ϕ OUTLET PIPE TO DISCHARGE TO EXISTING CONCRETE LINED CHANNEL AT IL50.40.

STORMWATER QUALITY TREATMENT DEVICE 3.
100 x OCEAN PROTECT ZPG STORMFILTERS WITHIN 40m2 STORMFILTER CHAMBER

RETAINING WALL 22

PUMP ROOM AND SPRINKLER TANKS

RETAINING WALL 20

PROPOSED WAREHOUSE 2
FFL = 67.00 ± 500mm

RETAINING WALL 19

1300 DEEP RECESS DOCK

PROPOSED WAREHOUSE 1
FFL = 57.50 ± 500mm

BELOW GROUND 150kL RAINWATER TANK.

RETAINING WALL 21

BUILDING PRECAST TO RETAIN 2.0m MAX

ABOVE GROUND 120KL RAINWATER TANK.

RETAINING WALL 9

EXISTING D1200 SYDNEY WATER MAIN AND 10m WIDE EASEMENT

BATTER 1V:3H MAX TO EXISTING LEVEL AT BOUNDARY

RETAINING WALL 7

SITE BOUNDARY

PROVIDE INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS

BATTER 1V:3H MAX TO EXISTING LEVEL AT BOUNDARY

PROVIDE INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH CUMBERLAND CITY COUNCIL REQUIREMENTS

LGA BOUNDARY

SITE SUBJECT TO CUMBERLAND COUNCIL (HOLROYD) PART Q DCP 2013.

SITE SUBJECT TO BLACKTOWN CITY COUNCIL PART J DCP 2015.

CLUNIES ROSS STREET

REGIONAL WETLAND
REFER DA47

1050ϕ STORMWATER PIPE CROSSES EXISTING SEWER PIPE. 2m CLEARANCE

STORMWATER DISCHARGE POINT 2
DISCHARGE TO EXISTING REGIONAL DETENTION BASIN AT IL53.00

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LTS LOCKLEY DATED 16/01/20.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- ROOFWATER LINE
- SUBSOIL LINE
- EXISTING SYDNEY WATER LINE
- EXISTING SEWER LINE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- DENOTES ROOF AREA DRAINING TO RAINWATER TANK

5m 0 10 20 30 40 50m
SCALE 1:500 AT A0 SIZE SHEET

CONCEPT STORMWATER DRAINAGE PLAN - SHEET 2
SCALE 1:500

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	C
ISSUED FOR INFORMATION	22.04.20	B
ISSUED FOR INFORMATION	13.03.20	A

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CLIENT: Aliro

PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD. REF.
ID	ID	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA42

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PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: CONCEPT STORMWATER DRAINAGE PLAN SHEET 2

DRAWING No: C013251.06-DA42 ISSUE: C



LEGEND:

- 50.00 - EXISTING SURFACE CONTOUR
- CATCHMENT BOUNDARY
- PROPOSED SITE

REGIONAL CATCHMENT PLAN
SCALE 1:2500

20m 0 50 100 150 200 250m
SCALE 1:2500 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	B
ISSUED FOR INFORMATION	22.04.20	A

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Aliro

PROJECT
STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

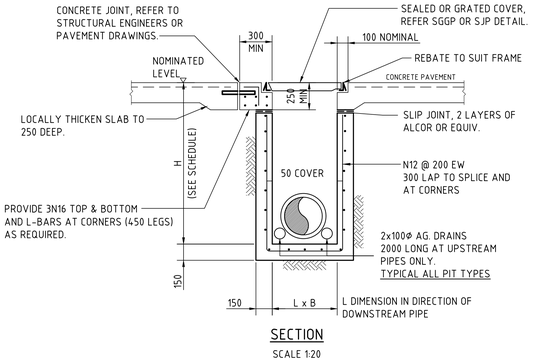
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IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA20

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DRAWING TITLE
REGIONAL CATCHMENT PLAN

DRAWING No. C013251.06-DA44 ISSUE B

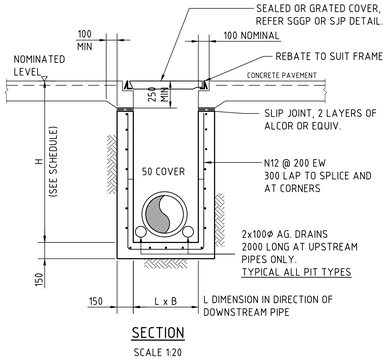


SECTION

SCALE 1:20

SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL GRATE/COVER SUPPORT CAST-INTO PAVEMENT SLAB

(ADOPT IN CONCRETE PAVEMENT FOR SGGP's & SJP's, WHERE PITS ARE LOCATED IN THE CORNER OF SLAB PANELS OR ADJACENT TO SLAB PANEL JOINTS)

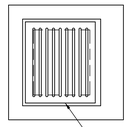


SECTION

SCALE 1:20

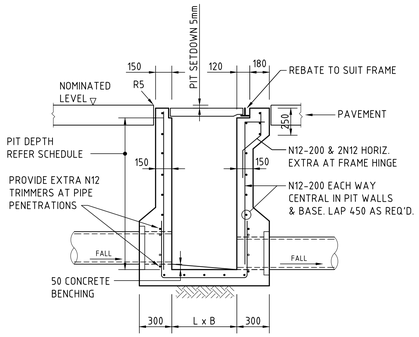
SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL GRATE/COVER SUPPORT CAST-INTO PAVEMENT SLAB

(ADOPT IN CONCRETE PAVEMENTS FOR SGGP's & SJP's, WHERE JOINTS ARE NOT LOCATED WITHIN PROXIMITY OF THE GRATE)



PLAN

SCALE 1:20



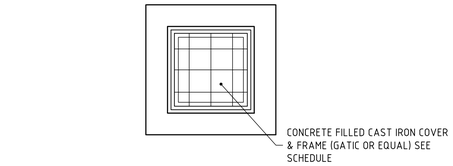
SEE SCHEDULE

L DIMENSION IN DIRECTION OF DOWNSTREAM PIPE

SECTION

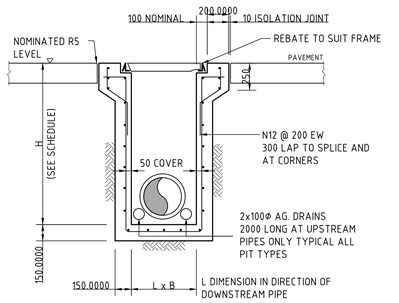
SCALE 1:20

SINGLE GRATED GULLY PIT - SGGP



PLAN

1:20



SECTION

SCALE 1:20

SEALED PIT - SJP

BEDDING & HAUNCH MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 50
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

SIDE ZONE MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 50
0.60	50 TO 15
0.075	25 TO 0

SELECT FILL MATERIAL IN ACCORDANCE WITH TABLE 1 AS 3725

TYPE HS2 SUPPORT TO CONCRETE PIPES UNDER PAVEMENT

SCALE 1:20

D ≤1350, MAX FILL = 4.0m

D >1350, MAX FILL = 3.0m

SUPPORT TO uPVC PIPES

SCALE 1:20

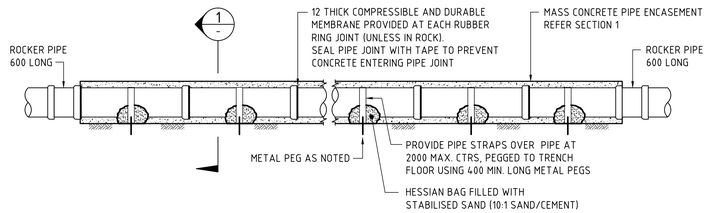
PIPE LAYING DETAILS

SCALE 1:20

SUPPORT TO AGRICULTURAL DRAIN

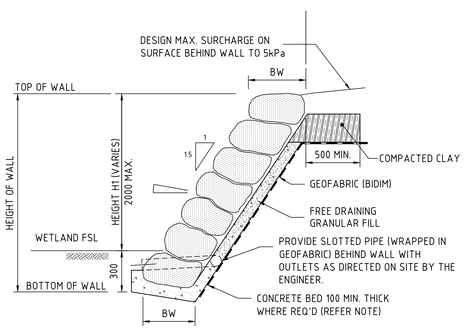
SCALE 1:20

SIDE ZONE MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
9.5	100 TO 50
2.6	100 TO 30
0.60	50 TO 15
0.075	25 TO 0



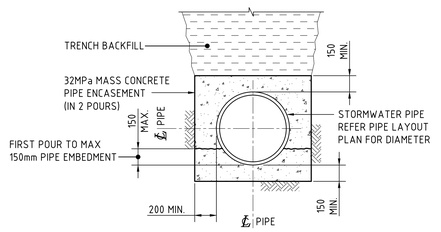
STORMWATER PIPE CONCRETE ENCASEMENT TYPICAL DETAIL

SCALE 1:50



RETAINING WALL (WETLAND BOULDER RETAINING WALL)

SCALE 1:20



SECTION 1:20 (1) : TYPICAL ACROSS PIPE

NOTE :
DURING THE ENCASEMENT PROCESS THE CONTRACTOR IS TO PROVIDE SUPPORT TO THE PIPE TO PREVENT PIPE MOVEMENT AND/OR FLOAT. CONCRETE ENCASEMENT TO BE INSTALLED IN 2 POURS.

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	C
ISSUED FOR INFORMATION	22.04.20	B
ISSUED FOR INFORMATION	12.03.20	A

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CLIENT: Aliro

PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED: ID | DRAWN: ID | DATE: MAR '20 | CHECKED: M.W. | SIZE: A0 | SCALE: AS SHOWN | CAD. REF: C013251.06-DA45

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PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: CONCEPT STORMWATER DRAINAGE DETAILS

DRAWING No: C013251.06-DA45 | ISSUE: C

CUMBERLAND COUNCIL LGA | BLACKTOWN COUNCIL LGA

EXISTING PUMP STATION TO REMAIN

EXISTING 600Ø BASIN LOW FLOW OULET PIPE

EXISTING TRANSMISSION TOWERS TO REMAIN

500mm BERM AT RL55.90. BATTER TO ACCESS TRACK AND BASIN FSL AT 1V:3H MAX

EXISTING 2x750Ø BASIN INLET PIPES AT IL 55.50

PROPOSED REALIGNMENT OF BASIN ACCESS TRACK SHOWN THUS

PROPOSED REALIGNMENT OF CONCRETE DISCHARGE WEIR SHOWN THUS.WEIR RL 54.90 REFER DETAIL ON DA48

REGIONAL DETENTION BASIN

REGIONAL WETLAND

MATCH LEVELS AT CORNER AND AROUND SEWER MANHOLE

OUTLET 2
PROPOSED SITE DISCHARGE AT IL53.00 VIA NEW 1050Ø PIPE AND HEADWALL.
ROCK OUTLET PER BCC STANDARD DRAWING A(BS)175M

WETLAND BASIN TO BE FILLED AND RELOCATED OFF SUBJECT LAND. APPROX 1130m2

PROPOSED REALIGNMENT OF BASIN ACCESS TRACK ATOP RETAINING WALL SHOWN THUS

OUTLET 1
PROPOSED 750Ø BASIN INLET PIPE AT IL 54.70.
ROCK OUTLET PER BCC STANDARD DRAWING A(BS)175M

PROVIDE SMOOTH INTERFACE BETWEEN NEW AND EXISTING ACCESS TRACK

REGIONAL BASIN WITHIN PROPOSED SITE TO BE FILLED IN TO SUIT PROPOSED SITE GRADING.
TOTAL VOLUME LOST = 14 100m³ (APPROX)
PROVIDE COMPENSATORY WORKS OUTSIDE OF BOUNDARY AS SHOWN ABOVE

REGIONAL BASIN TO BE EXTENDED AS SHOWN FOR FLOOD COMPENSATION AND PROVISION OF ON-SITE-DETENTION TO THE WAREHOUSE 1 PAD (WITHIN THE BLACKTOWN COUNCIL LGA)

REQUIRED FLOOD COMPENSATION	= 14 100m³
REQUIRED OSD STORAGE (6.1Ha @ 455m³/Ha)	= 2 780m³
TOTAL COMPENSATORY VOLUME	= 16 880m³

PROVIDE SMOOTH INTERFACE WITH EXISTING BASIN BATTER

BASIN LOW FLOW CHANNEL

REGIONAL DETENTION BASIN

EXISTING TRANSMISSION TOWERS TO REMAIN

EXISTING 1050Ø LOW FLOW BASIN DISCHARGE AND HEADWALL TO GIRRAWEEN CREEK.
IL 47.63
LOW FLOW 5.5m3/s

EXISTING 50m WIDE WEIR AT RL56.10 TO REMAIN.
PMF OVERFLOW 73m3/s

OUTLET 3
PROPOSED SITE DISCHARGE AT IL50.40 VIA NEW 1200Ø RCP TO EXISTING CONCRETE LINED CHANNEL.
ROCK OUTLET PER BCC STANDARD DRAWING A(BS)175M

EXISTING 1050Ø LOW FLOW OUTLET AND HEADWALL TO GIRRAWEEN CREEK.
IL 46.88
LOW FLOW 5.5m3/s

BASIN CREST RL57.00

TRANSMISSION EASEMENT BOUNDARY

SITE BOUNDARY

LOT 2 DP 1037447

LOT 216 DP 1037447

BASIN WORKS PLAN
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	D
ISSUED FOR INFORMATION	24.04.20	C
ISSUED FOR INFORMATION	22.04.20	B
ISSUED FOR INFORMATION	13.03.20	A

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CLIENT: Aliro

PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA47

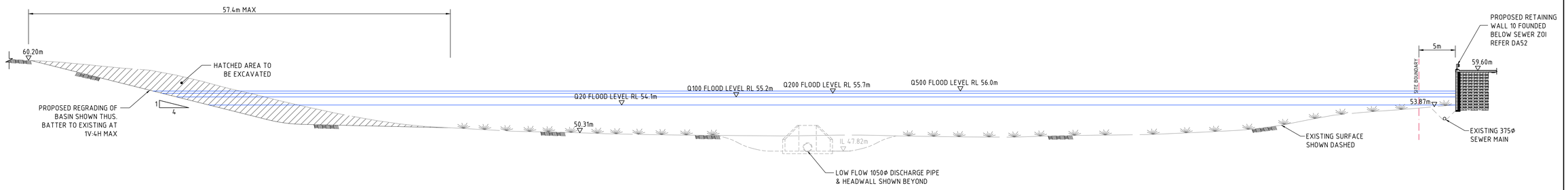
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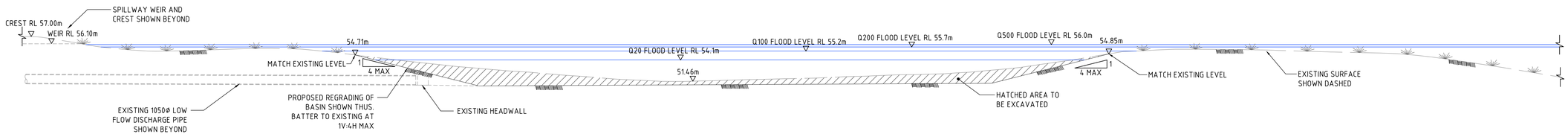
PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: BASIN WORKS PLAN

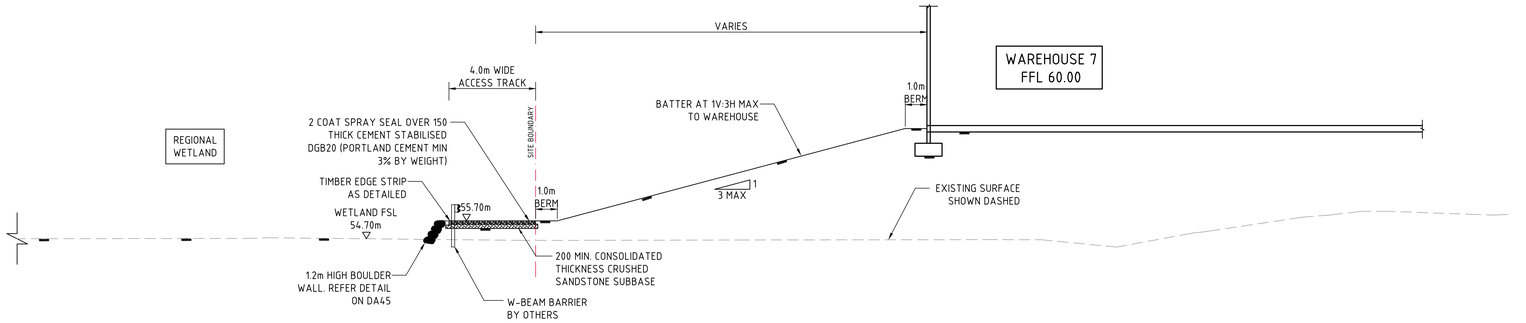
DRAWING No: C013251.06-DA47 ISSUE: D



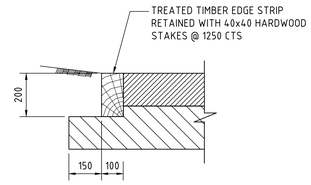
SECTION 1:200 A DA47



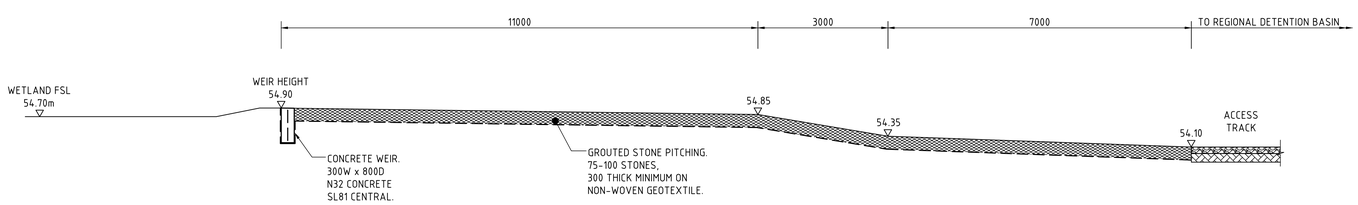
SECTION 1:200 B DA47



SECTION 1:100 C DA47



TIMBER EDGE STRIP DETAIL
SCALE 1:10



WETLAND SPILLWAY WEIR DETAIL
SCALE 1:50

1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT A0 SIZE SHEET

2m 0 5 10 15 20m
SCALE 1:200 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	B
ISSUED FOR INFORMATION	22.04.20	A

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Aliro

PROJECT
STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD. REF.
ID	ID	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA57

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DRAWING TITLE
BASIN SECTIONS

DRAWING No. C013251.06-DA48 ISSUE B

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LTS LOCKLEY DATED 16/01/20.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- 50.00 – FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 – FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- 50.10 – EXISTING SURFACE CONTOUR

RETAINING WALL 1
REINFORCED EARTH WALL
IN FILL
MAX H = 5.0m
SURCHARGE = 20kPa
FACE OF WALL TO BE 1.5m MIN FROM CENTRELINE OF SEWER

RETAINING WALL 2
CRIB WALL
IN CUT
MAX H = 6.6m
SURCHARGE = 20kPa

RETAINING WALL 3
CONTINGUOUS PILE WALL
IN CUT
MAX H = 6.6m
SURCHARGE = 20kPa

RETAINING WALL 4
CRIB WALL
IN CUT
MAX H = 6.6m
SURCHARGE = 20kPa

RETAINING WALL 5
'NO FINES' KEYSTONE WALL
IN CUT
MAX H = 1.0m
SURCHARGE = 20kPa

RETAINING WALL 6
REINFORCED EARTH WALL
IN FILL
MAX H = 1.8m
SURCHARGE = 20kPa

RETAINING WALL 7
'NO-FINES' KEYSTONE WALL
IN CUT
MAX H = 2.6m
SURCHARGE = 20kPa

RETAINING WALL 13
'NO-FINES' KEYSTONE WALL
IN CUT
MAX H = 1.2m
SURCHARGE = 20kPa

RETAINING WALL 14
REINFORCED EARTH WALL
IN FILL
MAX H = 1.6m
SURCHARGE = 20kPa

RETAINING WALL 15
CANTILEVER BLOCK WALL
IN FILL
MAX H = 6.6m
SURCHARGE = 35kPa

RETAINING WALL 16
REINFORCED EARTH WALL
IN FILL
MAX H = 5.6m
SURCHARGE = 20kPa

RETAINING WALL 17
REINFORCED EARTH WALL
IN FILL
MAX H = 8.8m
SURCHARGE = 20kPa

RETAINING WALL 18
DRY WALL & REINFORCED EARTH WALL
IN FILL
MAX H = 11.0m
SURCHARGE = 35kPa

RETAINING WALL 19
REINFORCED EARTH WALL
IN FILL
MAX H = 4.0m
SURCHARGE = 20kPa

RETAINING WALL 20
REINFORCED EARTH WALL
IN FILL
MAX H = 6.0m
SURCHARGE = 20kPa

RETAINING WALL 21
CANTILEVER BLOCK WALL
IN FILL
MAX H = 3.0m
SURCHARGE = 35kPa

RETAINING WALL 22
REINFORCED EARTH WALL
IN FILL
MAX H = 1.2m
SURCHARGE = 20kPa

RETAINING WALL 23
REINFORCED EARTH WALL
IN FILL
MAX H = 7.4m
SURCHARGE = 20kPa

PROPOSED WAREHOUSE 6
FFL = 84.50 ± 500mm

PROPOSED WAREHOUSE 4
FFL = 74.00 ± 500mm

PROPOSED WAREHOUSE 5
FFL = 85.00 ± 500mm

PROPOSED WAREHOUSE 3
FFL = 74.00 ± 500mm

PROPOSED WAREHOUSE 2
FFL = 67.00 ± 500mm

ABORIGINAL HERITAGE AREA

BELOW GROUND RAINWATER TANK. REFER DA41

ABOVE GROUND RAINWATER TANK. REFER DA41

BELOW GROUND RAINWATER TANK REFER DA42

1300 DEEP RECESS DOCK

STORMWATER QUALITY TREATMENT DEVICE. REFER DA42

CONSTRUCT WALL OVER EXISTING SEWER LINE. SUBJECT TO SYDNEY WATER REQUIREMENTS

EXISTING RETAINING WALL

BATTER 1V:3H MAX TO EXISTING LEVEL AT BOUNDARY

PROVIDE INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH CUMBERLAND CITY COUNCIL REQUIREMENTS

BREAKLINE - REFER TO DRAWING DA42 FOR CONTINUATION

MATCH LINE

SITE SUBJECT TO CUMBERLAND COUNCIL (HOLROYD) PART Q DCP 2013.

CLUNIES ROSS STREET

FOUNDATION PLACE

LOT 601 D.P. 1047403

LOT 1 D.P. 1022044

FINISHED LEVELS PLAN - SHEET 1
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
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ISSUED FOR INFORMATION	22.04.20	B
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PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA51

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DRAWING TITLE: FINISHED LEVELS PLAN - SHEET 1
DRAWING No: C013251.06-DA51
ISSUE: C

BREAKLINE - REFER TO ADJACENT PLAN FOR CONTINUATION

BREAKLINE - REFER TO DRAWING DA41 FOR CONTINUATION

STORMWATER QUALITY TREATMENT DEVICE. REFER DA42

MATCH LINE

END WALL 13

END WALL 12

END WALL 24

1300 DEEP RECESS DOCK

RETAINING WALL 12
REINFORCED EARTH WALL
IN FILL
MAX H = 5.6m
SURCHARGE = 20kPa
FACE OF WALL TO BE 1.5m MIN
FROM CENTRELINE OF SEWER

PROPOSED WAREHOUSE 7
FFL = 60.00 ± 500mm

STORMWATER QUALITY TREATMENT DEVICE. REFER DA42

BUILDING FOOTINGS TO BE FOUNDED BELOW ZOI OF SEWER

ABOVE GROUND RAINWATER TANK. REFER DA42

RETAINING WALL 26
REINFORCED EARTH WALL
IN FILL
MAX H = 3.0m
SURCHARGE = 20kPa

END WALL 26

START WALL 12

PUMP ROOM AND SPRINKLER TANKS AT RL 60.00

END WALL 25

START WALL 25

RETAINING WALL 25
REINFORCED EARTH WALL
IN FILL
MAX H = 3.0m
SURCHARGE = 20kPa

PROPOSED WAREHOUSE 2
FFL = 67.00 ± 500mm

RETAINING WALL 24
REINFORCED EARTH WALL
IN FILL
MAX H = 9.6m
SURCHARGE = 20kPa

1300 DEEP RECESS DOCK

END WALL 11

RETAINING WALL 11
REINFORCED EARTH WALL
IN FILL
MAX H = 2.6m
SURCHARGE = 20kPa

START WALL 11

PROPOSED WAREHOUSE 1
FFL = 57.50 ± 500mm

BUILDING PRECAST TO RETAIN 2.0m MAX

ABOVE GROUND RAINWATER TANK. REFER DA42

1300 DEEP RECESS DOCK

END WALL 8

RETAINING WALL 8
REINFORCED EARTH WALL
IN FILL
MAX H = 1.2m
SURCHARGE = 20kPa

BELOW GROUND RAINWATER TANK. REFER DA42

START WALL 23

START WALL 7

START WALL 24

BATTER 1V:3H MAX TO EXISTING LEVEL AT BOUNDARY

RETAINING WALL 7
'NO-FINES' KEYSTONE WALL
IN CUT
MAX H = 2.6m
SURCHARGE = 20kPa

START WALL 8

START WALL 9

RETAINING WALL 9
REINFORCED EARTH WALL
IN FILL
MAX H = 1.0m
SURCHARGE = 20kPa

END WALL 9

BATTER 1V:3H MAX TO EXISTING LEVEL AT BOUNDARY

PROVIDE INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH CUMBERLAND CITY COUNCIL REQUIREMENTS

PROVIDE INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS

PROVIDE INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS

SITE SUBJECT TO CUMBERLAND COUNCIL (HOLROYD) PART Q DCP 2013.

SITE SUBJECT TO BLACKTOWN CITY COUNCIL PART J DCP 2015.

CLUNIES ROSS STREET

SITE BOUNDARY

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LTS LOCKLEY DATED 16/01/20.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- 50.10 - EXISTING SURFACE CONTOUR

FINISHED LEVELS PLAN - SHEET 2
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	C
ISSUED FOR INFORMATION	22.04.20	B
ISSUED FOR INFORMATION	13.03.20	A

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CLIENT: Aliro

PROJECT: STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED: ID | DRAWN: ID | DATE: MAR '20 | CHECKED: M.W. | SIZE: A0 | SCALE: AS SHOWN | CAD REF: C013251.06-DA52

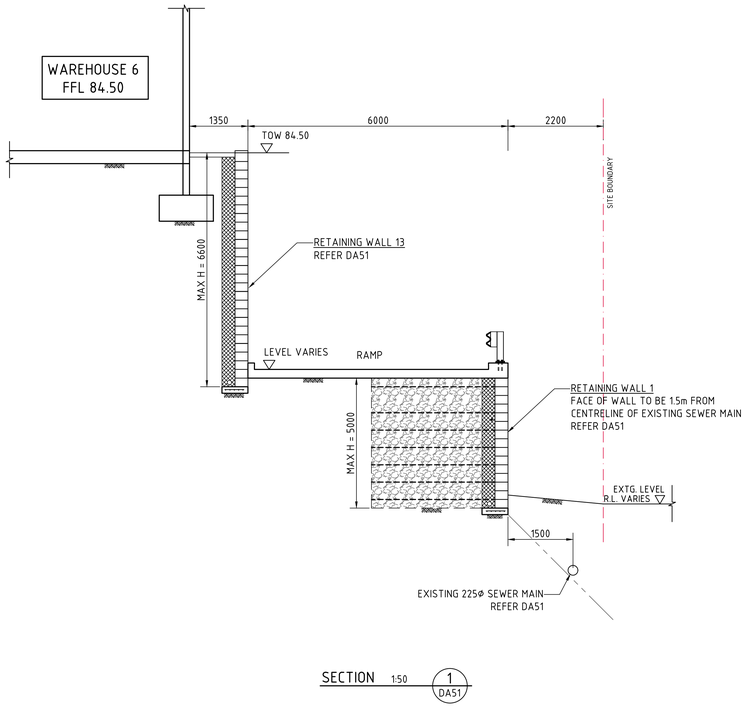
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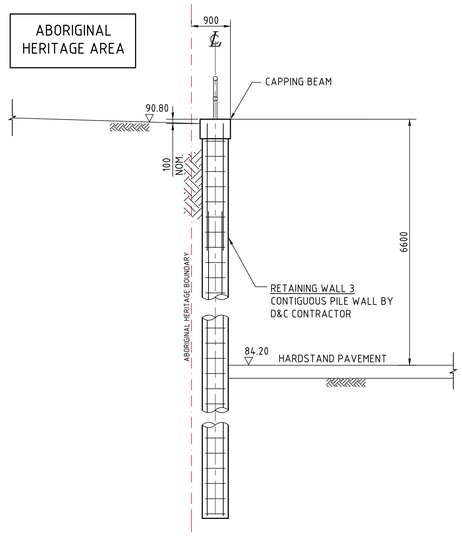
PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: FINISHED LEVELS PLAN - SHEET 2

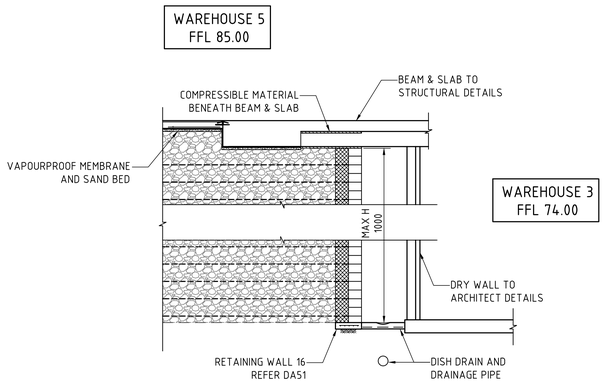
DRAWING No: C013251.06-DA52 ISSUE: C



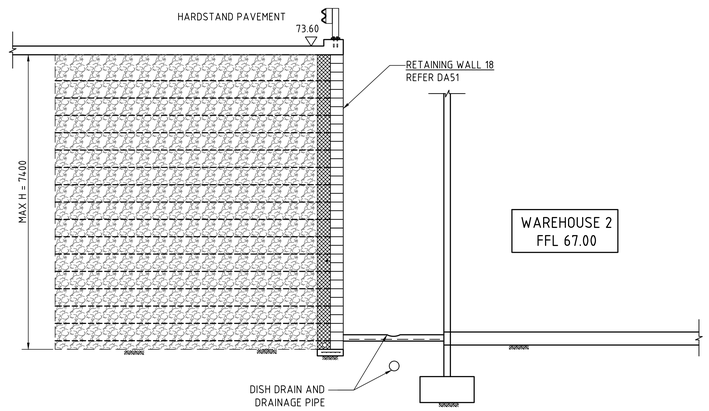
SECTION 1:50 1 DA51



SECTION 1:50 2 DA51



SECTION 1:50 3 DA51



SECTION 1:50 4 DA51

500mm 0 1 2 3 4 5m
SCALE 1:50 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	B
ISSUED FOR INFORMATION	13.03.20	A

AMENDMENTS DATE ISSUE | AMENDMENTS DATE ISSUE

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PROJECT
STATE SIGNIFICANT
DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

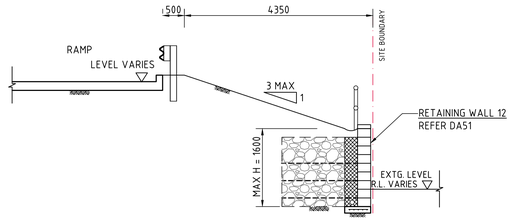
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD. REF.
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA55

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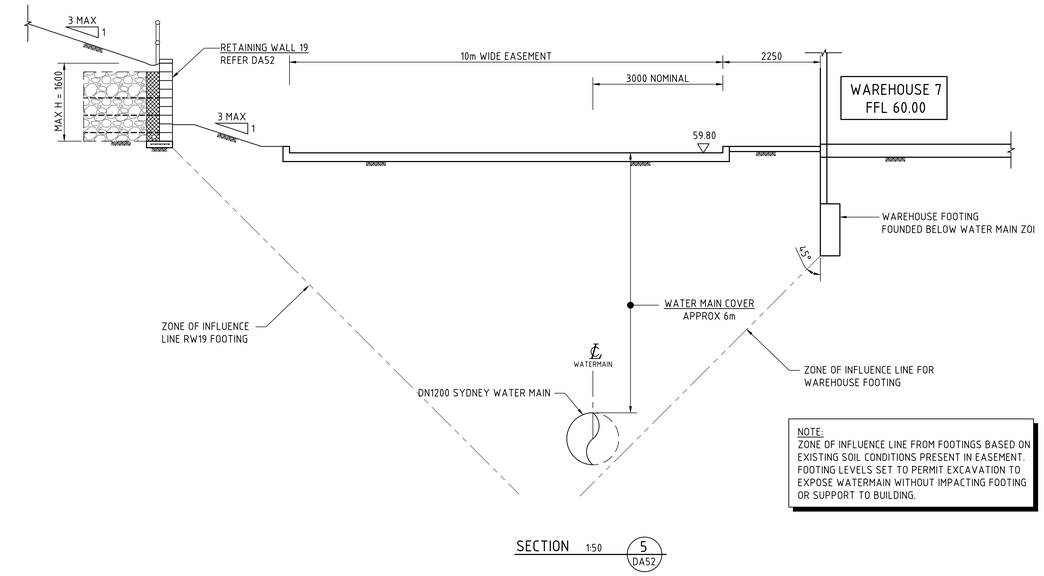
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DRAWING TITLE
TYPICAL SECTIONS
SHEET 1

DRAWING No C013251.06-DA55 ISSUE B

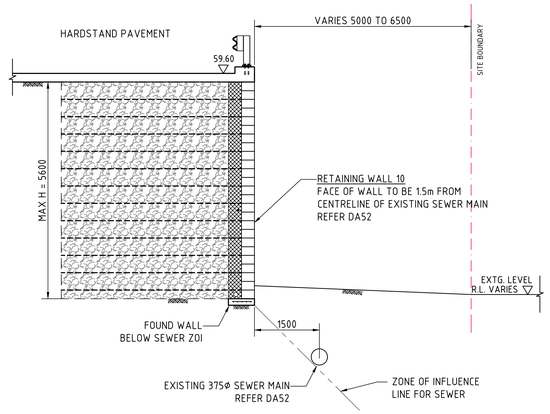


SECTION 1:50 5 DA51



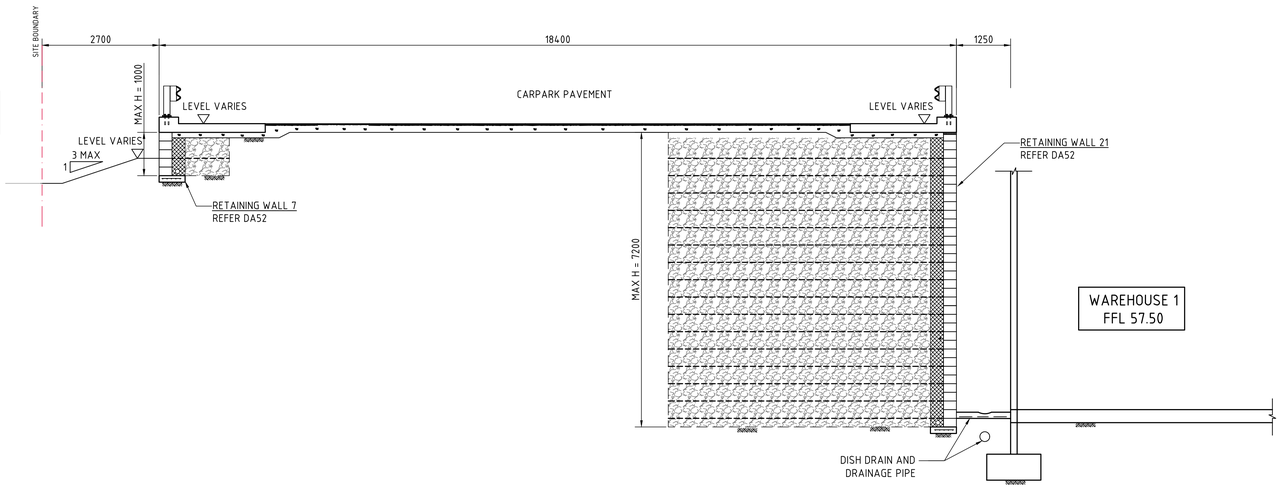
NOTE:
ZONE OF INFLUENCE LINE FROM FOOTINGS BASED ON EXISTING SOIL CONDITIONS PRESENT IN EASEMENT. FOOTING LEVELS SET TO PERMIT EXCAVATION TO EXPOSE WATERMAIN WITHOUT IMPACTING FOOTING OR SUPPORT TO BUILDING.

SECTION 1:50 5 DA52



SECTION 1:50 7 DA52

CLUNIES ROSS DRIVE



SECTION 1:50 8 DA52

500mm 0 1 2 3 4 5m
SCALE 1:50 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	B
ISSUED FOR INFORMATION	13.03.20	A

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PROJECT
STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD. REF.
ID	ID	MAR '20	M.W.	A0	AS SHOWN	C013251.06-DA56

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DRAWING TITLE
TYPICAL SECTIONS
SHEET 2

DRAWING No C013251.06-DA56 ISSUE B

LEGEND:

- WATER LEVEL CONTOUR (AEP 5% 2hrs) (54.0m AHD)
- WATER LEVEL CONTOUR (AEP 5% 9hrs) (54.3m AHD)
- WATER LEVEL CONTOUR (AEP 1% 2hrs) (54.8m AHD)
- WATER LEVEL CONTOUR (AEP 1% 9hrs) (55.2m AHD)
- WATER LEVEL CONTOUR (AEP 0.5% 2hrs) (55.0m AHD)
- WATER LEVEL CONTOUR (AEP 0.5% 9hrs) (55.7m AHD)
- WATER LEVEL CONTOUR (AEP 0.2% 2hrs) (55.4m AHD)
- WATER LEVEL CONTOUR (AEP 0.2% 9hrs) (56.0m AHD)
- WATER LEVEL CONTOUR (PMF 2hrs) (57.1m AHD)
- WATER LEVEL CONTOUR (PMF 6hrs) (57.0m AHD)

FOR DEVELOPMENT APPLICATION

PRE-DEVELOPED FLOODING SCENARIO
SCALE 1:750

6m 0 15 30 45 60 75m
SCALE 1:750 AT A0 SIZE SHEET

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	04.06.20	B
ISSUED FOR INFORMATION	24.04.20	A

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PROJECT
STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-F01

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DRAWING TITLE
PRE-DEVELOPED FLOODING SCENARIO

DRAWING No. C013251.06-F01
ISSUE B

LEGEND:

- WATER LEVEL CONTOUR (AEP 5% 2hrs) (53.8m AHD)
- WATER LEVEL CONTOUR (AEP 5% 9hrs) (54.1m AHD)
- WATER LEVEL CONTOUR (AEP 1% 2hrs) (54.7m AHD)
- WATER LEVEL CONTOUR (AEP 1% 9hrs) (55.2m AHD)
- WATER LEVEL CONTOUR (AEP 0.5% 2hrs) (55.0m AHD)
- WATER LEVEL CONTOUR (AEP 0.5% 9hrs) (55.7m AHD)
- WATER LEVEL CONTOUR (AEP 0.2% 2hrs) (55.3m AHD)
- WATER LEVEL CONTOUR (AEP 0.2% 9hrs) (56.0m AHD)
- WATER LEVEL CONTOUR (PMF 2hrs) (57.1m AHD)
- WATER LEVEL CONTOUR (PMF 6hrs) (57.0m AHD)

FOR DEVELOPMENT APPLICATION

POST-DEVELOPED FLOODING SCENARIO
SCALE 1:750

6m 0 15 30 45 60 75m
SCALE 1:750 AT A0 SIZE SHEET

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	04.06.20	B
ISSUED FOR INFORMATION	24.04.20	A

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PROJECT
STATE SIGNIFICANT DEVELOPMENT APPLICATION
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
IO	IO	MAR '20	M.W.	A0	AS SHOWN	C013251.06-F02

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DRAWING TITLE
POST-DEVELOPED FLOODING SCENARIO

DRAWING NO C013251.06-F02 ISSUE B