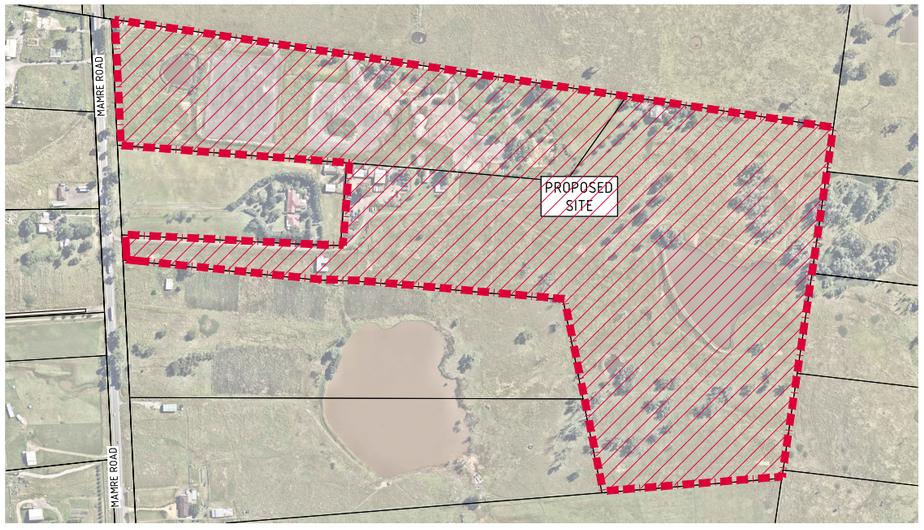
Appendix A

DRAWINGS BY COSTIN ROE CONSULTING

STATE SIGNIFICANT DEVELOPMENT APPLICATION
YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD, KEMPS CREEK, NSW, 2178

DRAWING LIST

DRAWING NO.	DRAWING TITLE
C013874.06- SSDA100	DRAWING LIST AND LOCALITY PLAN
C013874.06- SSDA110	GENERAL NOTES
C013874.06- SSDA200	EROSION AND SEDIMENT CONTROL PLAN - STAGE 1
C013874.06- SSDA201	EROSION AND SEDIMENT CONTROL PLAN - STAGE 2
C013874.06- SSDA250	EROSION AND SEDIMENT CONTROL DETAILS
C013874.06- SSDA300	BULK EARTHWORKS PLAN
C013874.06- SSDA310	CUT/FILL PLAN
C013874.06- SSDA350	BULK EARTHWORKS SECTIONS - SHEET 1
C013874.06- SSDA351	BULK EARTHWORKS SECTIONS - SHEET 2
C013874.06- SSDA400	STORMWATER DRAINAGE MASTER PLAN
C013874.06- SSDA401	PRE-DEVELOPMENT STORMWATER CATCHMENT PLAN
C013874.06- SSDA402	POST-DEVELOPMENT STORMWATER CATCHMENT PLAN
C013874.06- SSDA410	ROADWORKS STORMWATER DRAINAGE PLAN - SHEET 1
C013874.06- SSDA411	ROADWORKS STORMWATER DRAINAGE PLAN - SHEET 2
C013874.06- SSDA420	E2 CORRIDOR GENERAL ARRANGEMENT PLAN
C013874.06- SSDA421	E2 CORRIDOR CENTRELINE LONGSECTION
C013874.06- SSDA431	OSD BASIN 1 PLAN
C013874.06- SSDA432	OSD BASIN 2 PLAN
C013874.06- SSDA451	STORMWATER DRAINAGE DETAILS - SHEET 1
C013874.06- SSDA452	STORMWATER DRAINAGE DETAILS - SHEET 2
C013874.06- SSDA453	STORMWATER DRAINAGE DETAILS - SHEET 3
C013874.06- SSDA454	STORMWATER DRAINAGE DETAILS - SHEET 4
C013874.06- SSDA460	TYPICAL SECTIONS - SHEET 1
C013874.06- SSDA461	TYPICAL SECTIONS - SHEET 2
C013874.06- SSDA462	TYPICAL SECTIONS - SHEET 3
C013874.06- SSDA463	TYPICAL SECTIONS - SHEET 4
C013874.06- SSDA500	ROADWORKS MASTER PLAN
C013874.06- SSDA510	ROADWORKS TYPICAL SECTIONS & DETAILS
C013874.06- SSDA521	ROADWORKS LONG SECTIONS - SHEET 1
C013874.06- SSDA600	RETAINING WALL SETOUT PLAN
C013874.06- SSDA651	RETAINING WALL DETAILS
C013874.06- SSDA741	WAREHOUSE 1 - STORMWATER DRAINAGE PLAN
C013874.06- SSDA743	WAREHOUSE 3 - STORMWATER DRAINAGE PLAN
C013874.06- SSDA751	WAREHOUSE 1 - FINISHED LEVELS PLAN
C013874.06- SSDA753	WAREHOUSE 3 - FINISHED LEVELS PLAN



LOCALITY PLAN
NTS

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RtS SUBMISSION	07.04.22	D
REVISED FOR RtS SUBMISSION	06.04.22	C
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	21.05.21	B
ISSUED FOR PRELIMINARY ONLY	09.04.21	A

ARCHITECT
SBA ARCHITECTS
Suite 702, 83 Mount Street, North Sydney NSW 2060
T 02 9929 9988 F 02 9929 9899
E info@sbaarch.com.au W www.sbaarch.com.au

CLIENT
The GPT Group

PROJECT
YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
DS	JB	APRIL '21	DS	A0	AS SHOWN	C013874.06-SSDA100

Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 6 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3726
email: mail@costinroe.com.au ©

Costin Roe Consulting
PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE
DRAWING LIST AND LOCALITY PLAN

DRAWING NO. C013874.06-SSDA100 ISSUE D

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
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.

SURVEY NOTE:

1. EXISTING SITE LEVELS AND DETAILS BASED ON A PLAN OF SURVEY '11019-001' BY 'BOXALL SURVEYORS PTY. LTD.' DATED 23.07.2020.

SITE PREPARATION NOTES:

1. ALL EARTHWORKS SHALL BE COMPLETED GENERALLY IN ACCORDANCE WITH THE GUIDELINES SPECIFIED BY THE GEOTECHNICAL REPORT 'PSM3959-004L' PROVIDED BY PSM DATED 17.10.2019.
2. EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY BOXALL SURVEYORS TITLED 11019-001 DATED 23.07.2020.
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 C014021.00-DA100)
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.
15. DURING EARTHWORKS THE CONTRACTOR IS TO ENSURE ALL AREAS ARE FREE DRAINING & WILL NOT RETAIN WATER DURING RAINFALL. PROVIDE TEMPORARY MEASURES AS REQUIRED TO ENSURE FREE FLOWING RUNOFF THROUGH MANAGED DRAINAGE PATHS, DIVERSION DRAINS OR OTHER SUITABLE DISPOSAL METHOD AS AGREED DURING THE WORKS. REFER ANY CONCERNS TO THE ENGINEER. REFER TO EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES.

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.

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.

EXISTING SERVICES NOTES:

1. DURING THE EXECUTION OF WORKS, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING SERVICES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED TO THE EXISTING SERVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT SERVICE AUTHORITY, AT NO COST TO THE PRINCIPAL.
2. WHERE IT IS NECESSARY TO REMOVE, DIVERT OR CUT INTO ANY EXISTING SERVICE, THE CONTRACTOR SHALL GIVE AT LEAST THREE (3) DAYS NOTICE OF ITS REQUIREMENTS TO THE SUPERINTENDENT, WHO WILL ADVISE WHAT ARRANGEMENTS SHOULD BE MADE FOR THE ALTERATION OF SUCH EXISTING WORKS.
3. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. THE ACCURACY IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. ALL CLEARANCES AND APPROVALS SHALL ALSO BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL NEW AND EXHUMED SERVICES THAT CROSS EXISTING AND FUTURE ROADS/PAVEMENTS WITHIN THE SITE SHALL BE BACKFILLED WITH DGB20 MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 98% STANDARD DENSITY RATIO. SUBJECT TO PRIOR APPROVAL FROM RELEVANT AUTHORITY.
5. ON COMPLETION OF SERVICES INSTALLATION. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
6. CARE TO BE TAKEN WHEN EXCAVATING NEAR UTILITY SERVICES. NO MECHANICAL EXCAVATION TO BE UNDERTAKEN OVER SERVICES. LIAISE WITH RELEVANT AUTHORITY.
7. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS WITHIN THE CONTRACT AREA AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL TO REGULATORY AUTHORITY STANDARDS AND APPROVAL.
8. THE CONTRACTOR IS TO MAINTAIN EXISTING STORMWATER DRAINAGE FLOWS THROUGH THE ROADS AT ALL TIMES. MAKE DUE ALLOWANCE FOR ALL SUCH FLOWS AT ALL TIMES.
9. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL OF THE PROGRAM FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
10. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES AS REQUIRED TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
11. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE OR DAMAGE TO THE ADJACENT RESIDENCES. CONTRACTOR TO GAIN APPROVAL OF THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
12. THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG (DBYD 1100) SERVICES SEARCH BEFORE THE COMMENCEMENT OF ANY WORKS.

TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROLS TO COMPLY WITH AS 1742.3-2002
2. TRAFFIC CONTROL PLANS TO BE SUBMITTED AND CERTIFIED BY AN ACCREDITED WORK SITE OPERATIVE.
3. AS PART OF THE TRAFFIC CONTROL PLAN ENSURE THAT PEDESTRIANS ARE CATERED FOR.
4. AFTER-HOURS TRAFFIC CONTROL THROUGH THE WORKSITE HAVE TO BE CATERED FOR.

PCC NOTES:

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARDS AND SPECIFICATIONS:

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. PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
4. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
5. ALL STORMWATER PIPES Ø375 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
6. ALL PIPES UP TO AND INCLUDING Ø300 TO BE uPVC GRADE SN8 UNO.
7. PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
8. 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.
9. IN ADDITION TO ITEM 9 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
10. 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.
11. 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.
12. WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED Ø100 uPVC TO EACH SIDE OF PIPE.
13. 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.
14. ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
15. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
16. MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
17. 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.
18. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
19. 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.
20. 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.

FINISHED LEVELS PLAN NOTES:

1. LEVELS DATUM IS AUSTRALIAN HEIGHT DATUM (A.H.D.).
2. GRADING REQUIREMENTS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS2890.1, AS2890.2 AND AS2890.6.
3. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
4. CONTOUR INTERVALS
   - THE MINOR CONTOUR INTERVAL IS 0.1m.
   - THE MAJOR CONTOUR INTERVAL IS 0.5m.
5. HARDSTAND GRADING
   - MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%).
   - GRADING OF ON-GRADE DOCKS TO BE 1:100 (1%) FALL AWAY FROM THE DOCK FACE FOR A LENGTH OF 15m U.N.O.
   - GRADING OF TRUCK CIRCULATION ZONES TO BE MINIMUM AS NOTED ABOVE, 3-4% NOMINAL AND MAX. 5%.
6. CAR PARKING AREA GRADES
   - MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%), DESIRABLE MINIMUM GRADE 1:50 (2%).
   - MAXIMUM PAVEMENT GRADE IS TO BE 1:20 (5%) N CARPARKING AREAS AND 1:25 (4%) ELSEWHERE.
   - DISABLED ACCESS PARKING ZONES AND SHARED SPACE TO BE MAXIMUM OF 1:33 (3%) IN ASPHALT PAVEMENT AND MAXIMUM OF 1:40 (2.5%) IN CONCRETE PAVEMENT.
   - CARPARK RAMP GRADES TO BE MAX 1:5 WITH 2.5m SMOOTH TRANSITION AT TOP AND BOTTOM U.N.O.
7. TRUCK RAMP GRADES
   - MAXIMUM B-DOUBLE OR 19.0m AV RAMP GRADES ARE TO BE 1:8.3 (12%) U.N.O. ON PLAN
   - PROVIDE MINIMUM 4.0m LONG TRANSITION WHERE CHANGES OF GRADE EXCEED 1:20 (5%) AT A CREST U.N.O.
   - PROVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGE OF GRADE EXCEED 1:20 (5%) AT A SAG U.N.O.
   - TRANSITIONS ARE TO PROVIDE A SMOOTH CONTINOUS CIRCULAR AND TANGENTIAL CHANGE IN GRADE TO ENSURE NO SHARP OR ACUTE CHANGES IN GRADE ARE PRESENT.
8. WHERE FIRE BRIGADE ACCESS IS REQUIRED, MAXIMUM RAMP GRADIENTS ARE TO BE 1:6 (16.6%), DESIRABLE RAMP GRADIENTS ARE TO BE 1:8 (12.5%) WITH 7m TRANSITION TOP AND BOTTOM U.N.O. ON PLAN.
9. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H U.N.O. BASED ON GEOTECHNICAL ASSESSMENT. PROVIDE MINIMUM 0.5m BERM BETWEEN THE BACK OF KERB OR PAVEMENT EDGES AND THE TOP OR TOE OF A BATTER.
10. ALL BATTER SLOPE 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. ALL FOOTPATHS ARE TO FALL AWAY FROM THE BUILDING AT 2.5% NOMINAL. GRADE.
12. ALL PAVEMENTS ARE TO BE SET AT 30mm BELOW THE FINISHED FLOOR LEVEL OF THE WAREHOUSE AND OFFICE AREAS. PROVIDE LOCAL FEATHERING AT DOORWAYS OR ROLLER SHUTTERS TO PROVIDE FLUSH FINISH AS REQUIRED.
13. WHERE NEW AND EXISTING INTERFACING IS REQUIRED, MATCH EXISTING LEVELS AND PROVIDE SMOOTH INTERFACE BETWEEN NEW AND EXISTING GRADIENTS. REFER ANY CONCERNS TO THE ENGINEER.

REINFORCED EARTH RETAINING WALL NOTES:

1. ALL COMPONENTS AND INSTALLATION SHALL COMPLY WITH AS4678 AND THE STANDARDS REFERRED TO THEREIN.
2. MINIMUM HEIGHT (H) TO GEOGRID REINFORCEMENT LENGTH (L) TO BE 1.0.
3. MINIMUM BEARING CAPACITY OF FOUNDATION (BASED ON MINIMUM H/L RATIO OF 1.0) TO BE AS FOLLOWS :
   a. H MAX. 2.0m = 100 kPa
   b. H MAX. 3.5m = 150 kPa
   c. H MAX. 5.0m = 200 kPa
   BEFORE COMMENCEMENT OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER.
4. WHERE MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE FOUNDATION MATERIAL IS TO BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL PLACED IN ACCORDANCE WITH THE FILLING SPECIFICATION TO A MINIMUM COMPACTION OF 100% SMDD AND PLACED WITHIN 2% OF OMC.
5. MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS U.N.O. ON PLAN:
   a. LIVE LOAD = 20 kPa
   b. DEAD LOAD = 5 kPa
   c. CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
6. THE GEOGRIDS SHALL BE OF THE TYPE AND INDEX STRENGTH NOMINATED ON THE DRAWINGS. THE MINIMUM GEOGRIDS SHALL BE A SINGLE LENGTH IN THE DIRECTION OF DESIGN TENSION, NOT LAPPED, MAKING PROVISION FOR CONNECTION TO THE FACING ACROSS THE WHOLE WIDTH OF THE FACING AND PROVIDING FOR THE SPECIFIED ANCHORAGE WITHIN THE DESIGNATED ANCHORAGE ZONE. GEOGRIDS SHALL COVER THE WHOLE OF THE PLAN AREA BEHIND THE WALL FOR THE SPECIFIED ANCHORAGE LENGTH AND SHALL BE LAPPED WITH ADJACENT SECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm.
8. DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
9. SELECT BACKFILL MATERIAL WITHIN THE REINFORCED SOIL BLOCK SHALL BE SOUND GRANULAR MATERIAL OF NATURAL OR INDUSTRIAL ORIGIN, NON-EXPANSIVE, FREE FROM ORGANIC OR OTHER DELETERIOUS MATERIAL CONFORMING TO THE PHYSICAL, CHEMICAL AND ELECTROCHEMICAL LIMITS AS SPECIFIED AND SHALL NOT BE SUBJECT TO BREAKDOWN UNDER COMPACTION. THE SELECT BACKFILL MATERIAL IS TO HAVE THE FOLLOWING PARAMETERS:
   a. MINIMUM INTERNAL FRICTION, Ø = 34°
   b. EFFECTIVE COHESION, C'= 0 kPa
   c. UNIT WEIGHT = 21 kN/m^3
   d. PH BETWEEN 4 AND 9.
10. SELECT BACKFILL IS TO BE PLACED AND COMPACTED IN LAYERS NOT MORE THAN 300mm (LOOSE). COMPACTION TO NOT LESS THAN 100% SMDD WILL BE ACHIEVED AND MATERIAL PLACED WITHIN 2% OF OMC. DENSITY TESTING SHALL BE PERFORMED IN EACH COMPACTED LIFT IN ACCORDANCE WITH AS3798.
11. PROVIDE A DRAINAGE LAYER DIRECTLY BEHIND THE FACING UNITS IN A MINIMUM 300mm WIDE 12-20mm AGGREGATE LAYER. FACING UNIT VOIDS TO BE FILLED WITH AGGREGATE. PROVIDE 100mm MINIMUM AG. DRAIN IN GEOTEXTILE SOCK AT TOE OF WALL FACING AND CONNECT TO DRAINAGE SYSTEM AT 30m MAX. SPACING.
12. THE NEED FOR A CHIMNEY DRAIN OR DRAINAGE AT THE REAR OF THE MASS SOIL BLOCK IS TO BE CONFIRMED ON SITE BY THE GEOTECHNICAL ENGINEER AND DESIGNER FOLLOWING PREPARATION OF THE FOUNDATION AND PRIOR TO CONSTRUCTION OF THE MASS SOIL BLOCK.
13. CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500kG STATIC WEIGHT IS TO BE KEPT BACK 1.5m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 1.5m STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.
14. ALL DESIGN AND CONSTRUCT WALL SYSTEM TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.
15. TOP OF WALL HEIGHTS ARE NOTED TO ALIGN WITH FINISHED PAVEMENT HEIGHTS. THE CONTRACTOR AND THEIR DESIGN AND CONSTRUCT WALLING CONTRACTORS ARE TO ENSURE THAT ALL WALL STRAPS ARE INSTALLED BELOW THE DESIGN EARTHWORKS SUBGRADE. CONTRACTOR TO ALLOW FOR WALL STRAPS TO BE GRADED AWAY FROM THE FACE OF THE WALL OR OTHERWISE INSTALLED TO SUIT EARTHWORKS DESIGN LEVELS AND GRADES.

16. DIFFERENTIAL SETTLEMENT NOTE:
    FUTURE BUILDING AND SERVICE DESIGNERS TO CONSIDER DIFFERENTIAL SETTLEMENT OF REINFORCED EARTH WALL BLOCK AND GENERAL FILL AREAS. PARTICULAR ATTENTION TO BE DRAWN TO HEAVILY LOADED AREAS, OR DIFFERING LOADED AREAS (INCLUDING SPRINKLER TANK AND TRUCK PAVEMENT AREAS) AND WHERE SIGNIFICANT CHANGES IN OVERALL WALL HEIGHT OR FILL AMOUNTS ARE EXPERIENCED. IT IS THE RESPONSIBILITY OF THE FUTURE DESIGNERS TO ENSURE APPROPRIATE DESIGN CONSIDERATION TO DIFFERENTIAL SETTLEMENT ARE MADE DEPENDING ON THE DESIGN ELEMENT AND INTERACTION WITH RETAINED ELEMENTS AND GENERAL FILL MATERIAL.

RETAINING WALL NOTES:

1. ALL COMPONENTS AND INSTALLATION SHALL COMPLY WITH AS4678 AND THE STANDARDS REFERRED TO THEREIN.
2. MINIMUM BEARING CAPACITY OF FOUNDATION TO BE AS FOLLOWS :
   a. H MAX. 2.0m = 100 kPa
   b. H MAX. 3.5m = 150 kPa
   c. H MAX. 5.0m = 200 kPa
   BEFORE COMMENCEMENT OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER.
3. WHERE MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE FOUNDATION MATERIAL IS TO BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL PLACED IN ACCORDANCE WITH THE FILLING SPECIFICATION TO A MINIMUM COMPACTION OF 100% SMDD AND PLACED WITHIN 2% OF OMC.
4. MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS U.N.O.
5. ON PLAN :
   a. LIVE LOAD = 20 kPa
   b. DEAD LOAD = 5 kPa
   c. CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
6. MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm MINIMUM UNLESS NOTED OTHERWISE.
7. DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
8. TIED WALLS ARE TO BE TEMPORARILY PROPPED AT TOP UNTIL SUCH TIME THE TOP OF WALL IS TIED TO THE SLAB AND 28-DAY CONCRETE STRENGTH HAS BEEN ACHIEVED.
9. CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500KG STATIC WEIGHT IS TO BE KEPT BACK 1.5m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 1.5m STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.
10. ALL DESIGN AND CONSTRUCT WALL SYSTEMS TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RtS SUBMISSION	06.04.22	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	06.01.21	C
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	21.05.21	B
ISSUED FOR PRELIMINARY ONLY	09.04.21	A

ARCHITECT
SBA ARCHITECTS
Commercial Industrial Residential Retail Interior Design
Suite 702, 83 Mount Street, North Sydney NSW 2060
T 02 9929 9988 F 02 9929 8899
E info@sbaarch.com.au W www.sbaarch.com.au

CLIENT
The GPT Group

PROJECT
YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
DS	JB	APRIL '21	DS	A0	AS SHOWN	C013874.06-SSDA110

CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.
Consulting Engineers ACN 003 696 446
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3731
email: mail@costinroe.com.au ©

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DRAWING TITLE
GENERAL NOTES

DRAWING No C013874.06-SSDA110
ISSUE D

DP104958
LOT 1

DP259135
PT LOT 61

DP259135
PT LOT 59

PT LOT 58

BASIN 3

SILT FENCE & CATCH DRAIN

SILT FENCE WITH CATCH DRAIN

NOMINAL STOCKPILE LOCATION T.B.C ON SITE

PROPOSED BUND

EXISTING POND TO BE DEWATERED AS PER POND DEWATERING NOTES.

EXISTING POND TO BE DEWATERED AS PER POND DEWATERING NOTES.

SEDIMENT BASIN 3
CATCHMENT
AREA: 7.71HA

SEDIMENT BASIN 2
CATCHMENT
AREA: 8.72HA

SEDIMENT BASIN 1
CATCHMENT
AREA: 15HA

PROVIDE COFFERDAM AND PUMP TO DIVERT DIRTY WATER AROUND CLEAN WATER DIVERSION

STABILISED CONSTRUCTION ENTRY. REFER TO DRAWING SSDA250 FOR DETAIL.

DIVERSION DRAIN

SILT FENCE

METAL SHED

EXISTING POND

EXISTING POND TO BE DEWATERED AS PER POND DEWATERING NOTES.

PROVIDE COFFERDAM AND PUMP TO DIVERT DIRTY WATER AROUND CLEAN WATER DIVERSION

CLEANWATER DIVERSION DRAIN. REFER TO INSTREAM WORKS NOTE BELOW

EXISTING POND TO BE DEWATERED AS PER POND DEWATERING NOTES.

BASIN 2

DIVERSION DRAIN

BASIN 1
OVERFLOW TO EXISTING.
FLOW PATH SUBJECT TO WORKS ON MIRVAC SITE.
NOTE STAGE 2 EROSION AND SEDIMENT CONTROL FOR FINAL OVERFLOW LOCATION.

SILT FENCE

DIVERSION DRAIN

MAMRE ROAD

B.M. SURVEY MARK PM 17827B RL. 40.90

POND DEWATERING NOTES:

1. DRAIN PONDS OF WATER & DISCHARGE CLEAN WATER TO STORMWATER DRAINAGE SYSTEM (AS PER NOTES 2 & 3) - REFER TO STORMWATER PLAN FOR LOCATIONS.
2. DEWATERING TO BE PERFORMED IN SUCH A MANNER AS TO REMOVE CLEAN WATER WITHOUT REMOVING OR DISTURBING SILT, SEDIMENT OR OTHER ORGANIC MATERIAL FROM THE BASE OF THE PONDS.
3. DISCHARGE OF WATER FROM PONDS TO HAVE A PH RANGE OF 6.5-8.5 AND TSS < 50mg/L. PONDS TO BE DOSED WITH GYPSUM (APPROX. 30mg PER CUBIC METRE) TO ACCELERATE SETTLEMENT OF SUSPENDED SOLIDS.
4. REMOVE ALL SILT, ORGANIC AND WATER LOGGED MATERIAL FROM BASE OF POND (NOM. DEPTH 0.5-1.0m) AND DISPOSE OF IN ACCORDANCE WITH THE ACCEPTABLE PRACTICE.
5. EXPOSE NATURAL SITE SOILS AND COMPACT SUBGRADE IN ACCORDANCE WITH THE SITE PREPARATION NOTES (REFER DRG. DA10) REMOVING ANY SOFT ZONES AS REQ'D.
6. PLACE AND COMPACT FILL AS PER SITE PREPARATION NOTES ON DRAWING C1110.
7. INFORMATION PROVIDED ON THIS DRAWING SHALL BE USED TO GUIDE THE DEVELOPMENT OF THE COSNTRUCTION ENVIRONMENTAL MANAGEMENT PLAN THAT SHALL BE IMPLEMENTED DURING CONSTRUCTION

SEDIMENTATION BASIN NOTE:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C013874.06-SSDA250.
SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'.
CAPACITY BASED UPON 5 DAY RAINFALL DEPTH AT 80th PERCENTILE INTENSITY (32.2mm).

APPROXIMATE AREA OF DISTURBED SITE = 19.88ha

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)

STAGED CONSTRUCTION NOTE:

STAGE 1 - INITIAL SITE ESTABLISHMENT AND INSTALLATION OF SEDIMENT & EROSION CONTROL MEASURES AS NOTED ON PLAN. REFER TO DRAWING C013874.06-SSDA200

STAGE 2 - MAJORITY OF STORMWATER INFRASTRUCTURE COMPLETED, PADS BENCHED & RETAINING WALLS CONSTRUCTED. STORMWATER FROM DEVELOPED LOTS DIVERTED TO RETENTION BASIN. STORMWATER FROM UNDEVELOPED PADS DIVERTED TO SEDIMENT BASINS. REFER TO DRAWING C013874.06-SSDA201

NOTE:

REFER TO DRAWING DA110 FOR ALL EROSION AND SEDIMENT CONTROL NOTES.

LEGEND:

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS.
TYPICAL (N.S.O.P.)

- DENOTES SITE BOUNDARY
- DENOTES DIVERSION DRAIN
- DENOTES CATCHMENT BOUNDARY
- DENOTES SILT FENCE WITH CATCH DRAIN
- DENOTES SILT FENCE ONLY
- DENOTES CONSTRUCTION ENTRY
- DENOTES EXISTING POND TO BE DEWATERED

SEDIMENT BASIN DIMENSIONS

SEDIMENT BASIN 1:

CATCHMENT AREA	= 15.0ha
REQUIRED BASIN VOLUME	= 5040m³
BASE DIMENSION (LxB)	= 76.0m x 38.0m
TOP DIMENSION (LxB)	= 85.0m x 37.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 5140m³

SEDIMENT BASIN 2:

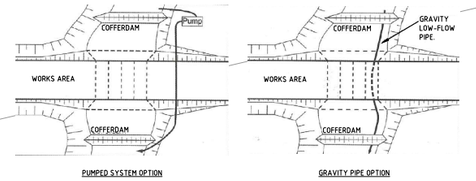
CATCHMENT AREA	= 8.72ha
REQUIRED BASIN VOLUME	= 2930m³
BASE DIMENSION (LxB)	= 69.0m x 23.0m
TOP DIMENSION (LxB)	= 78.0m x 32.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 3037m³

SEDIMENT BASIN 3:

CATCHMENT AREA	= 7.74ha
REQUIRED BASIN VOLUME	= 2601m³
BASE DIMENSION (LxB)	= 54.0m x 27.0m
TOP DIMENSION (LxB)	= 63.0m x 36.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 2772m³

INSTREAM WORKS:

1. SEDIMENT FENCES AND SEDIMENT FENCE RETURNS TO BE ERECTED PRIOR TO THE COMMENCEMENT OF ANY WORK. SEDIMENT FENCES TO REMAIN UNTIL COMPLETION OF INSTREAM WORK IN THESE LOCATION TO PROTECT EXISTING DOWNSTREAM PROPERTIES AND ROAD PAVEMENT. (REFER TO SSDA250 FOR DETAILS).
2. UNDERTAKE WORK DURING A PERIOD OF DRY FORECASTED WEATHER.
3. PROTECT DISTURBED AREA WITH COFFERDAMS AS REQUIRED.
4. TEMPORARY LOW FLOW DIVERSION PIPE OR PUMPED SYSTEM MAY BE INSTALLED AT THE BASE OF CHANNEL TO DIVERT CLEAN WATER FROM UPSTREAM BASEFLOW.
5. UNDERTAKE ALL INSTREAM WORK IN THE SPECIFIED SECTION OF THE CHANNEL IN ACCORDANCE WITH APPROVED PLANS AND IMMEDIATELY PLANT TO STABLISE THE WORKS.
6. PLANT WITH APPROPRIATE SPECIES, AT A DENSITY THAT WOULD NATURALLY OCCUR.



INSTREAM WORKS COFFERDAM ARRANGEMENT

EROSION AND SEDIMENT CONTROL PLAN
SCALE 1:1000

10m 0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT A0 SIZE SHEET

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RtS SUBMISSION	07.04.22	E
REVISED FOR RtS SUBMISSION	06.04.22	D
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ARCHITECT
SBA ARCHITECTS
Suite 702, 83 Mount Street, North Sydney NSW 2060
T: 02 9929 5588 F: 02 9929 5550
E: info@sbaarchitects.com.au W: www.sbaarchitects.com.au

CLIENT
GPT
The GPT Group

PROJECT
YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

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DS	JB	APRIL '21	DS	A0	AS SHOWN	C013874.06-SSDA200

Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-5721
email: mail@costinroe.com.au ©

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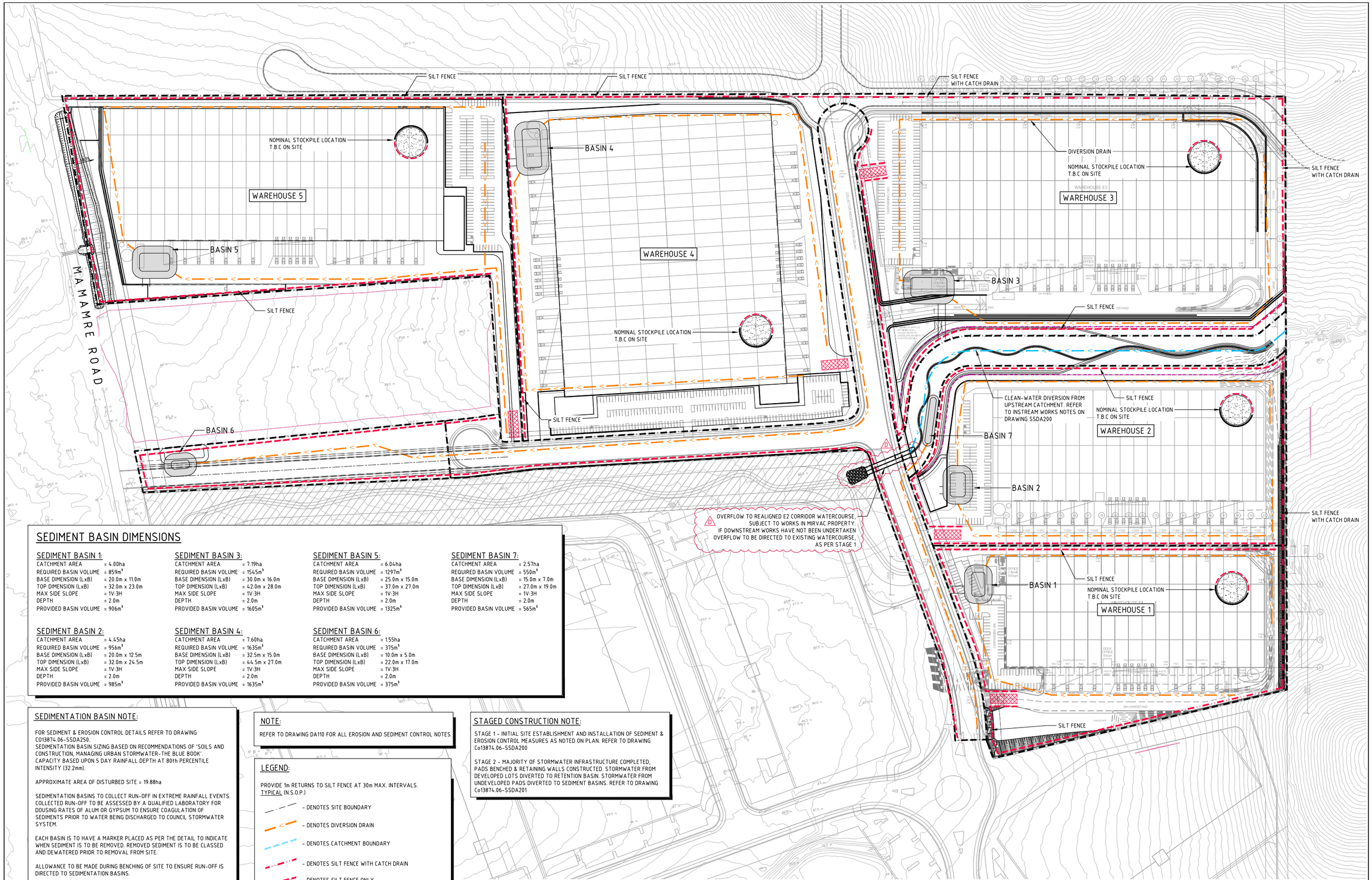
DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN
STAGE 1

DRAWING No: C013874.06-SSDA200 ISSUE: E



SEDIMENT BASIN DIMENSIONS

SEDIMENT BASIN 1:

CATCHMENT AREA	= 4.00ha
REQUIRED BASIN VOLUME	= 859m³
BASE DIMENSION (LxB)	= 20.0m x 11.0m
TOP DIMENSION (LxB)	= 32.0m x 23.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 2.0m
PROVIDED BASIN VOLUME	= 906m³

SEDIMENT BASIN 2:

CATCHMENT AREA	= 4.45ha
REQUIRED BASIN VOLUME	= 956m³
BASE DIMENSION (LxB)	= 20.0m x 12.5m
TOP DIMENSION (LxB)	= 32.0m x 24.5m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 2.0m
PROVIDED BASIN VOLUME	= 985m³

SEDIMENT BASIN 3:

CATCHMENT AREA	= 7.19ha
REQUIRED BASIN VOLUME	= 1545m³
BASE DIMENSION (LxB)	= 30.0m x 16.0m
TOP DIMENSION (LxB)	= 42.0m x 28.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 2.0m
PROVIDED BASIN VOLUME	= 1605m³

SEDIMENT BASIN 4:

CATCHMENT AREA	= 7.60ha
REQUIRED BASIN VOLUME	= 1635m³
BASE DIMENSION (LxB)	= 32.5m x 15.0m
TOP DIMENSION (LxB)	= 44.5m x 27.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 2.0m
PROVIDED BASIN VOLUME	= 1635m³

SEDIMENT BASIN 5:

CATCHMENT AREA	= 6.04ha
REQUIRED BASIN VOLUME	= 1297m³
BASE DIMENSION (LxB)	= 25.0m x 15.0m
TOP DIMENSION (LxB)	= 37.0m x 27.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 2.0m
PROVIDED BASIN VOLUME	= 1325m³

SEDIMENT BASIN 6:

CATCHMENT AREA	= 1.55ha
REQUIRED BASIN VOLUME	= 375m³
BASE DIMENSION (LxB)	= 10.0m x 5.0m
TOP DIMENSION (LxB)	= 22.0m x 17.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 2.0m
PROVIDED BASIN VOLUME	= 375m³

SEDIMENT BASIN 7:

CATCHMENT AREA	= 2.57ha
REQUIRED BASIN VOLUME	= 550m³
BASE DIMENSION (LxB)	= 15.0m x 7.0m
TOP DIMENSION (LxB)	= 27.0m x 19.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 2.0m
PROVIDED BASIN VOLUME	= 565m³

SEDIMENTATION BASIN NOTE:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C013874.06-SSDA250.
SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'.
CAPACITY BASED UPON 5 DAY RAINFALL DEPTH AT 80th PERCENTILE INTENSITY (32.2mm).

APPROXIMATE AREA OF DISTURBED SITE = 19.88ha

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)

NOTE:

REFER TO DRAWING DA110 FOR ALL EROSION AND SEDIMENT CONTROL NOTES.

LEGEND:

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS.
TYPICAL (N.S.O.P.)

- DENOTES SITE BOUNDARY
- DENOTES DIVERSION DRAIN
- DENOTES CATCHMENT BOUNDARY
- DENOTES SILT FENCE WITH CATCH DRAIN
- DENOTES SILT FENCE ONLY
- DENOTES CONSTRUCTION ENTRY

STAGED CONSTRUCTION NOTE:

STAGE 1 - INITIAL SITE ESTABLISHMENT AND INSTALLATION OF SEDIMENT & EROSION CONTROL MEASURES AS NOTED ON PLAN. REFER TO DRAWING C013874.06-SSDA200

STAGE 2 - MAJORITY OF STORMWATER INFRASTRUCTURE COMPLETED, PADS BENCHED & RETAINING WALLS CONSTRUCTED. STORMWATER FROM DEVELOPED LOTS DIVERTED TO RETENTION BASIN. STORMWATER FROM UNDEVELOPED PADS DIVERTED TO SEDIMENT BASINS. REFER TO DRAWING C013874.06-SSDA201

△D OVERFLOW TO REALIGNED E2 CORRIDOR WATERCOURSE, SUBJECT TO WORKS IN MIRVAC PROPERTY. IF DOWNSTREAM WORKS HAVE NOT BEEN UNDERTAKEN OVERFLOW TO BE DIRECTED TO EXISTING WATERCOURSE, AS PER STAGE 1

EROSION AND SEDIMENT CONTROL PLAN - STAGE 2
SCALE 1:1000

10m 0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT A0 SIZE SHEET

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RFS SUBMISSION	07.04.22	D
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ARCHITECT: SBA ARCHITECTS
Suite 702, 83 Mount Street, North Sydney NSW 2060
t: 02 9929 5588 f: 02 9929 5599
e: info@sbaarchs.com.au w: www.sbaarchs.com.au

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754-770 & 784-786 MAMRE ROAD
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Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 9 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3728
email: mail@costinroe.com.au

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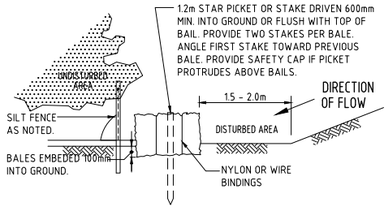
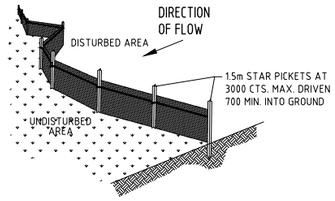
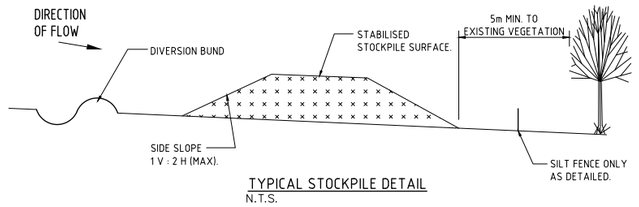
DRAWING TITLE: EROSION AND SEDIMENT CONTROL PLAN STAGE 2
DRAWING No: C013874.06-SSDA201 ISSUE: D



SILT FENCE WITH STRAW BALE DETAIL
N.T.S.

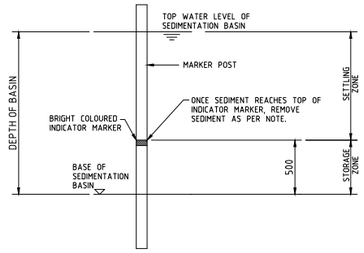


TYPICAL SILT FENCE DETAIL
N.T.S.
PROVIDE 1m RETURNS AT 30m INTERVALS.
TYPICAL



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.



SEDIMENT STORAGE MARKER
SCALE 1:20

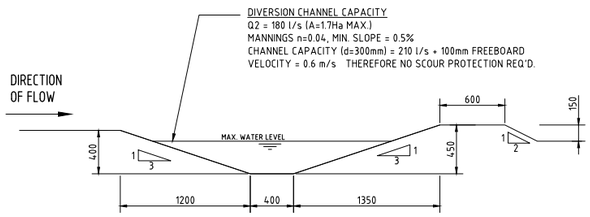
NOTES:
ALL EROSION & SEDIMENT CONTROL MEASURES TO BE INSPECTED & MAINTAINED DAILY BY SITE MANAGER.

MINIMISE DISTURBED AREAS.

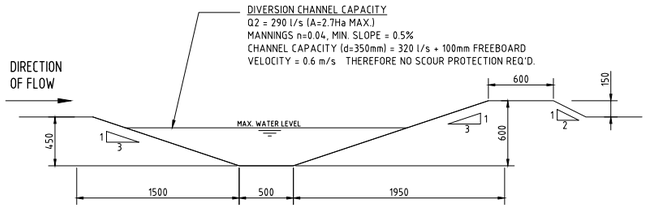
ROADS & FOOTPATHS TO BE SWEPT DAILY.

1.2m TURF TO BE PLACED BEHIND KERBS.

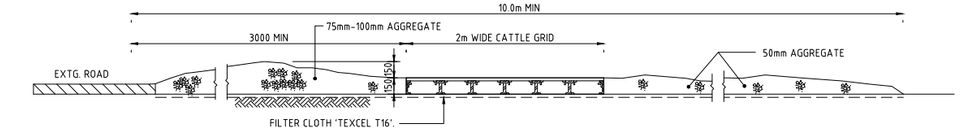
DUST MINIMISATION CONTROL BY WATERING TO BE IMPLEMENTED BY SITE MANAGER AS REQUIRED OR AS DIRECTED BY THE EPA.



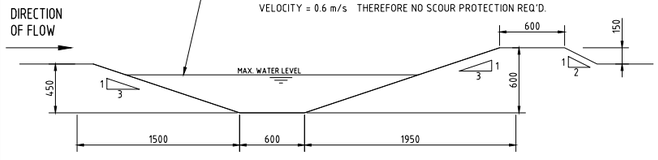
TYPE 1 DIVERSION DRAIN SECTION
SCALE 1:20



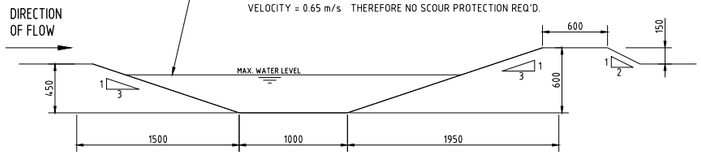
TYPE 2 DIVERSION DRAIN SECTION
SCALE 1:20



SECTION 1:20 (1 / SSDA25) : STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'



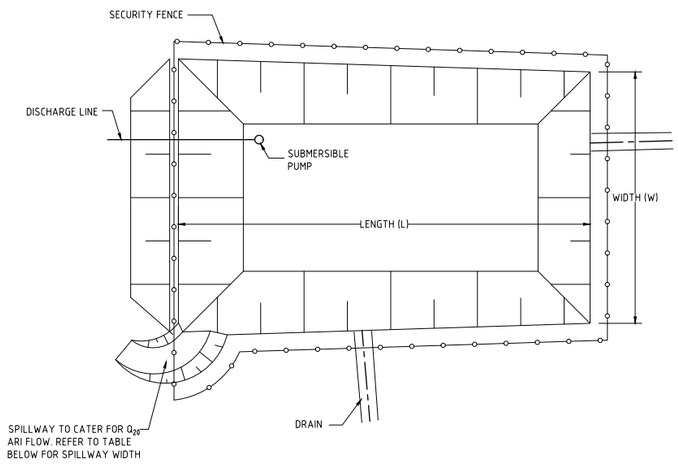
TYPE 3 DIVERSION DRAIN SECTION
SCALE 1:20



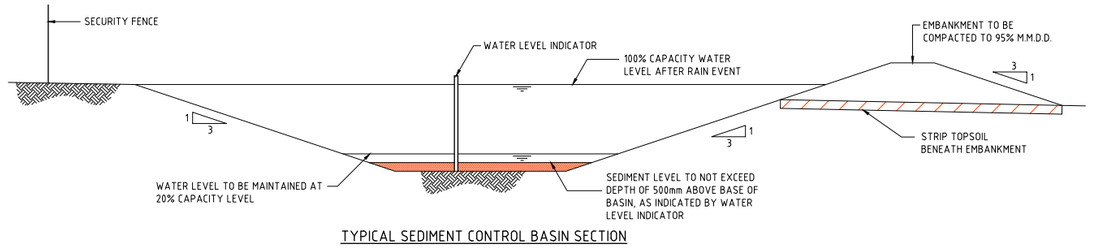
TYPE 4 DIVERSION DRAIN SECTION
SCALE 1:20

SPILLWAY DETAIL & SCHEDULE

CATCHMENT (Ha)	FLOW (m^3/s)	WIDTH (mm)	FLOW DEPTH (mm)	ROCK SIZE (mm)	BUND HEIGHT ABOVE SPILLWAY (mm)
0.20	0.14	1000	200	-	600
0.5	0.2	2000	200	-	600
1	0.3	2000	200	-	700
2	0.6	4000	200	-	700
5	1.4	5000	300	200	800
10	2.8	8000	350	200	850
20	5.5	14000	400	250	900
40	11.0	20000	500	250	1000



TYPICAL SEDIMENT CONTROL POND PLAN
SCALE 1:250



TYPICAL SEDIMENT CONTROL BASIN SECTION
SCALE 1:50

2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE SHEET

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

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT A0 SIZE SHEET

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RFS SUBMISSION	06.04.22	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	01.06.21	C
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	21.05.21	B
ISSUED FOR PRELIMINARY ONLY	09.04.21	A

ARCHITECT: SBA ARCHITECTS
Suite 702, 83 Mount Street, North Sydney NSW 2060
T: 02 9929 9988 F: 02 9929 9930
E: info@sbaarch.com.au W: www.sbaarch.com.au

CLIENT: GPT The GPT Group

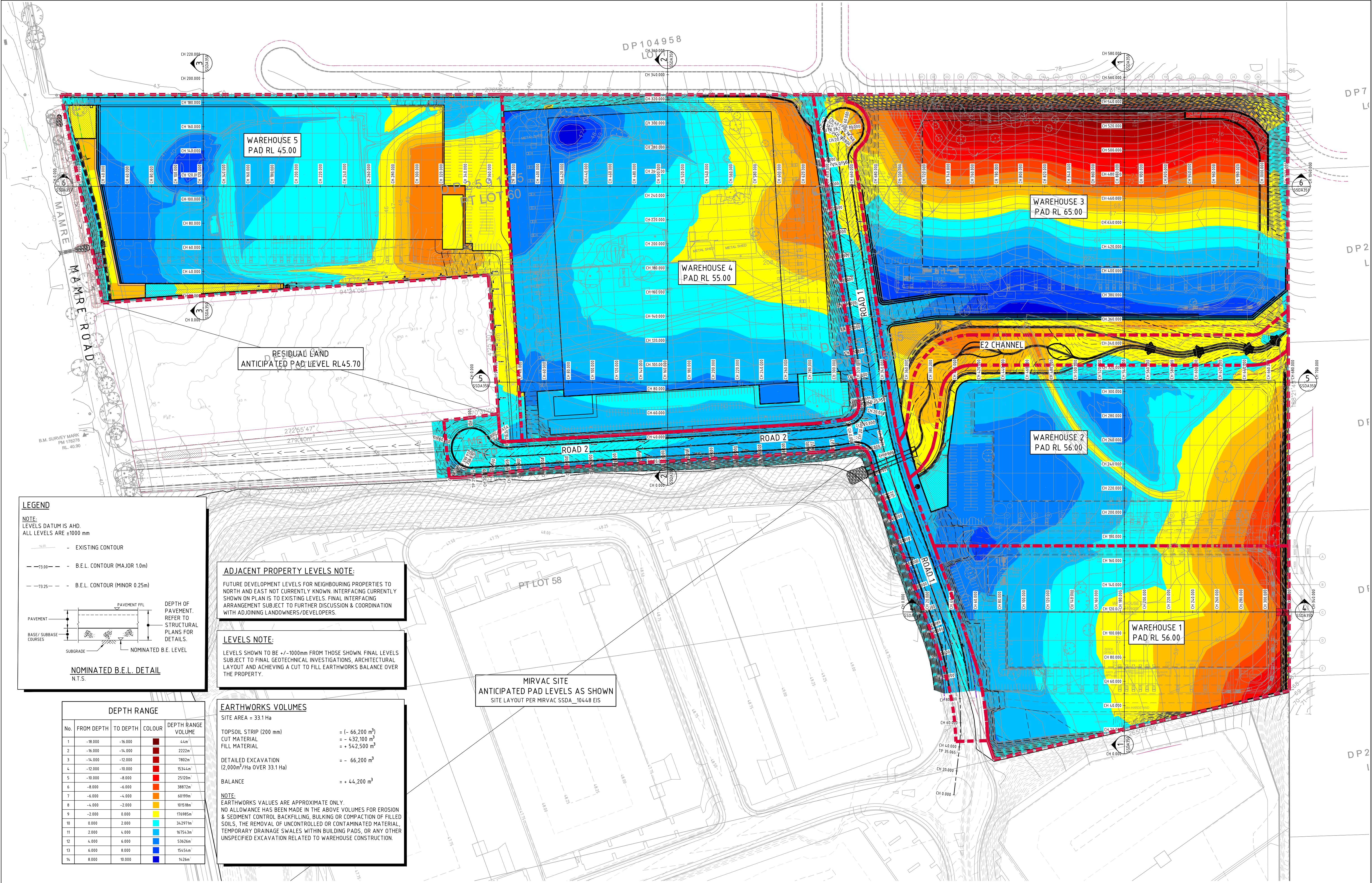
PROJECT: YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
DS	JB	APRIL '21	DS	A0	AS SHOWN	C013874.06-SSDA250

Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3728
email: mail@costinroe.com.au

Costin Roe Consulting
PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: EROSION AND SEDIMENT CONTROL DETAILS
DRAWING No: C013874.06-SSDA250 ISSUE: D



LEGEND

NOTE:
LEVELS DATUM IS AHD.
ALL LEVELS ARE ±1000 mm

- EXISTING CONTOUR
- B.E.L. CONTOUR (MAJOR 1.0m)
- B.E.L. CONTOUR (MINOR 0.25m)

PAVEMENT FFL
PAVEMENT
BASE/ SUBBASE COURSES
SUBGRADE
NOMINATED B.E. LEVEL
DEPTH OF PAVEMENT. REFER TO STRUCTURAL PLANS FOR DETAILS.

NOMINATED B.E.L. DETAIL
N.T.S.

ADJACENT PROPERTY LEVELS NOTE:

FUTURE DEVELOPMENT LEVELS FOR NEIGHBOURING PROPERTIES TO NORTH AND EAST NOT CURRENTLY KNOWN. INTERFACING CURRENTLY SHOWN ON PLAN IS TO EXISTING LEVELS. FINAL INTERFACING ARRANGEMENT SUBJECT TO FURTHER DISCUSSION & COORDINATION WITH ADJOINING LANDOWNERS/DEVELOPERS.

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN. FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

DEPTH RANGE

No.	FROM DEPTH	TO DEPTH	COLOUR	DEPTH RANGE VOLUME
1	-18.000	-16.000		44m³
2	-16.000	-14.000		2222m³
3	-14.000	-12.000		7802m³
4	-12.000	-10.000		15344m³
5	-10.000	-8.000		25120m³
6	-8.000	-6.000		38872m³
7	-6.000	-4.000		60199m³
8	-4.000	-2.000		101518m³
9	-2.000	0.000		176985m³
10	0.000	2.000		342971m³
11	2.000	4.000		167543m³
12	4.000	6.000		53626m³
13	6.000	8.000		15454m³
14	8.000	10.000		1426m³

EARTHWORKS VOLUMES

SITE AREA = 33.1 Ha

TOPSOIL STRIP (200 mm) = (- 66,200 m³)
CUT MATERIAL = - 432,100 m³
FILL MATERIAL = + 542,500 m³

DETAILED EXCAVATION = - 66,200 m³
(2,000m³/Ha OVER 33.1 Ha)

BALANCE = + 44,200 m³

NOTE:
EARTHWORKS VALUES ARE APPROXIMATE ONLY.
NO ALLOWANCE HAS BEEN MADE IN THE ABOVE VOLUMES FOR EROSION & SEDIMENT CONTROL BACKFILLING, BULKING OR COMPACTION OF FILLED SOILS, THE REMOVAL OF UNCONTROLLED OR CONTAMINATED MATERIAL, TEMPORARY DRAINAGE SWALES WITHIN BUILDING PADS, OR ANY OTHER UNSPECIFIED EXCAVATION RELATED TO WAREHOUSE CONSTRUCTION.

BULK EARTHWORKS PLAN
SCALE 1:1000

10m 0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT A0 SIZE SHEET

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	07.04.22	F
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	06.04.22	E
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	01.06.21	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	21.05.21	C
ISSUED FOR PRELIMINARY ONLY	15.04.21	B
ISSUED FOR PRELIMINARY ONLY	09.04.21	A

ARCHITECT
SBA ARCHITECTS
Commercial Industrial Residential Retail Interior Design
Suite 702, 83 Mount Street, North Sydney NSW 2060
T 02 9929 9988 F 02 9929 8899
E info@sbaarch.com.au W www.sbaarch.com.au

CLIENT
The GPT Group

PROJECT
YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
DS	JB	APRIL '21	DS	A0	AS SHOWN	C013874.06-SSDA300

Costin Roe Consulting Pty Ltd.
Consulting Engineers ACN 003 696 446
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3731
email: mail@costinroe.com.au ©

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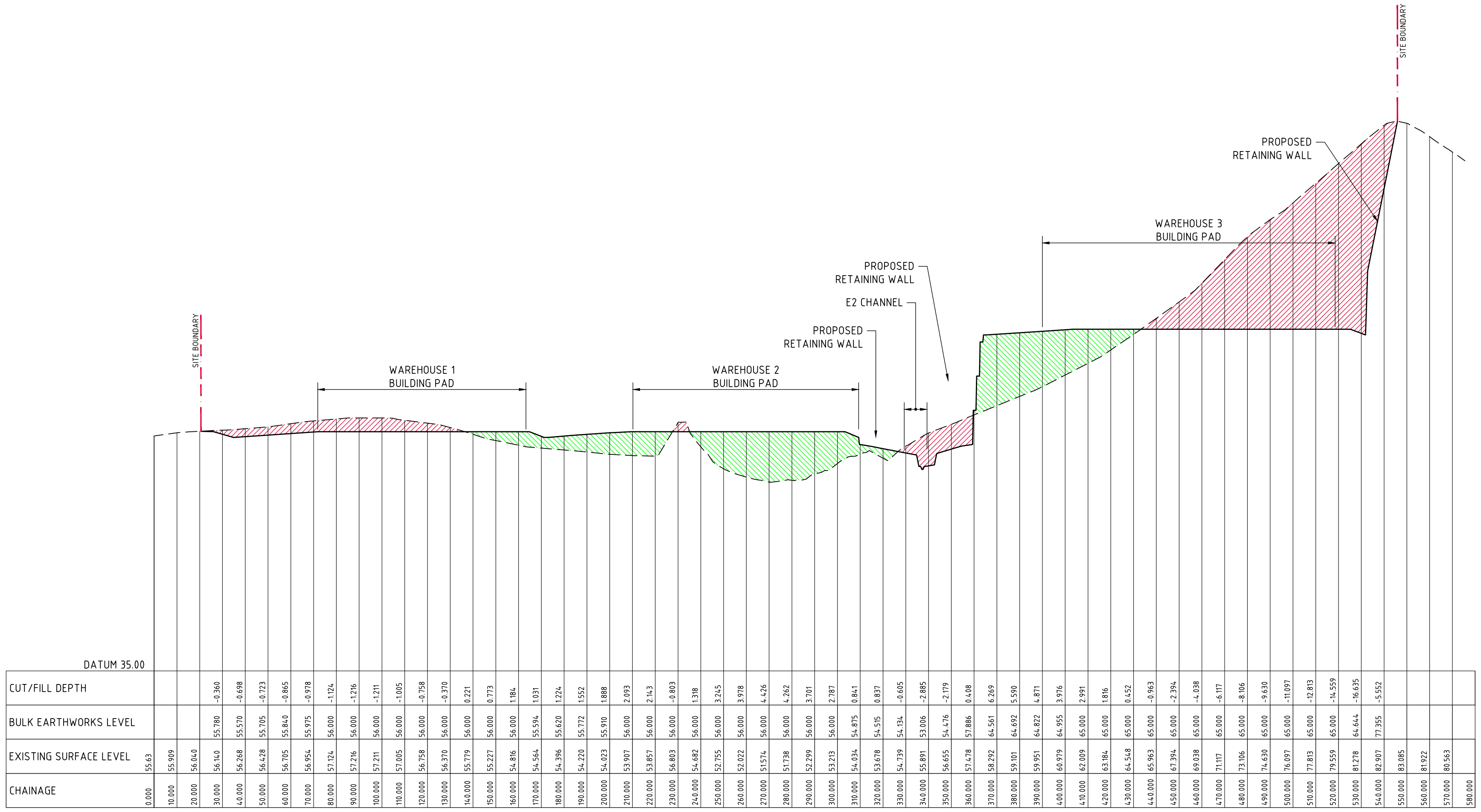
DRAWING TITLE
BULK EARTHWORKS PLAN

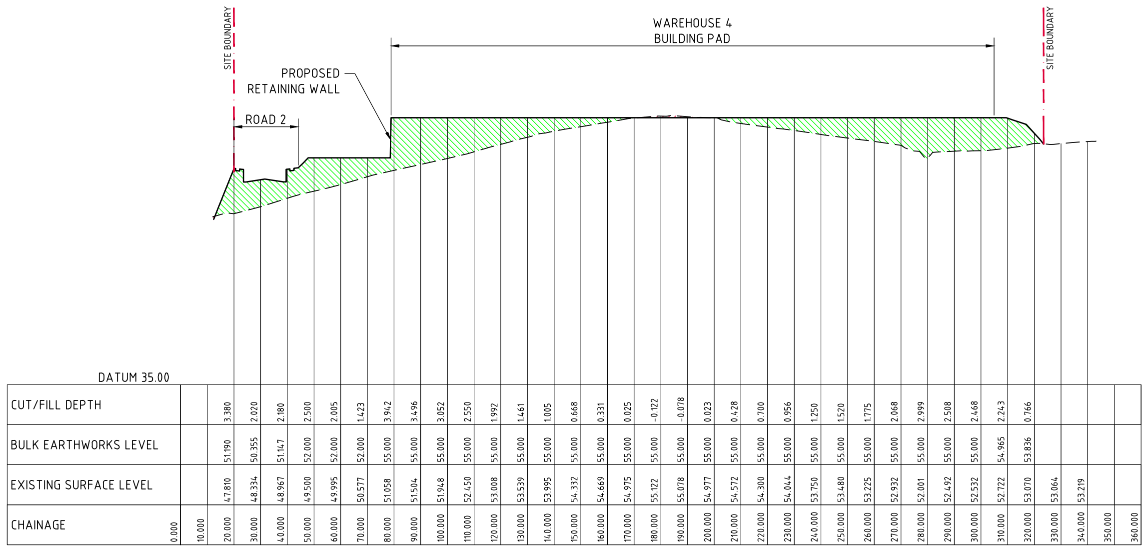
DRAWING No C013874.06-SSDA300
ISSUE F

LEGEND:

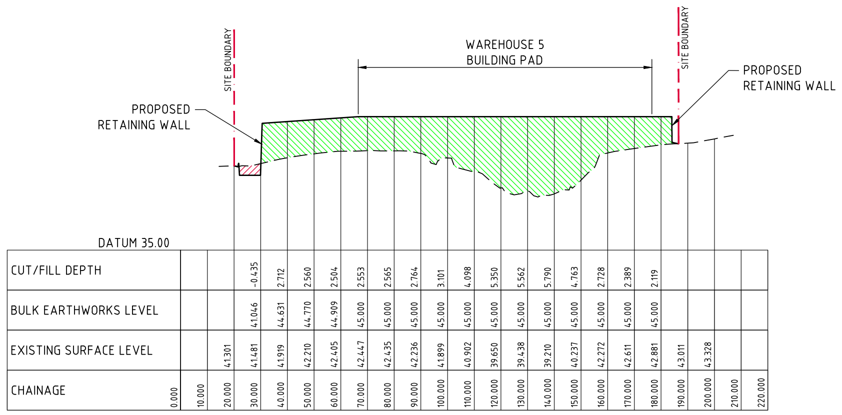
- DENOTES BULK EARTHWORKS PROFILE
- DENOTES EXISTING PROFILE
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL



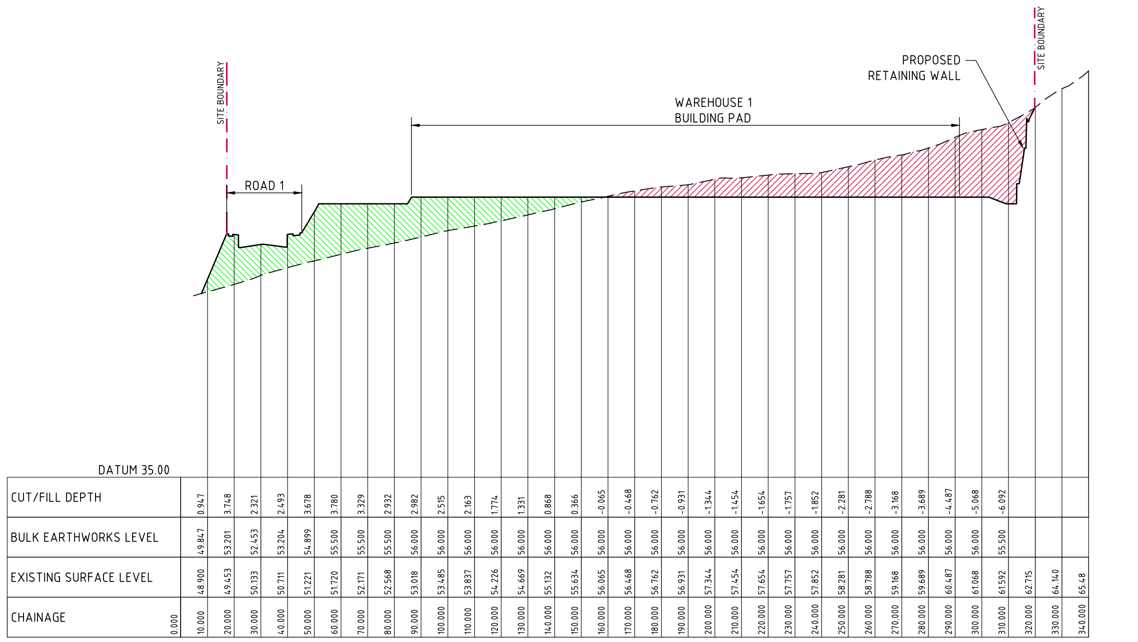
SECTION 1
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



SECTION 2
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



SECTION 3
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



SECTION 4
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

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

10m 0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT A0 SIZE SHEET

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RFS SUBMISSION	06.04.22	C
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ARCHITECT: SBA ARCHITECTS, Suite 702, 83 Mount Street, North Sydney NSW 2060

CLIENT: The GPT Group

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DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3731
email: mail@costinroe.com.au ©

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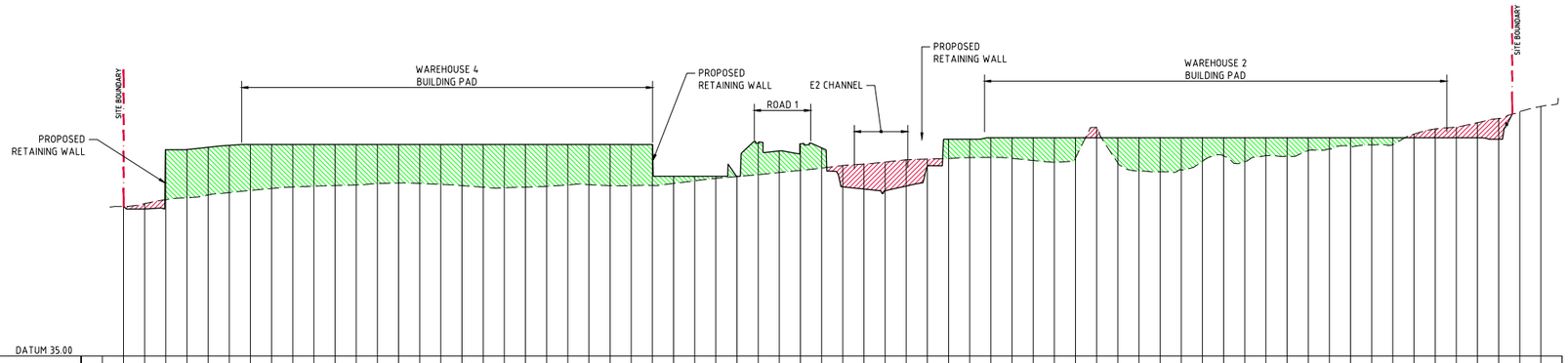
DRAWING TITLE: BULK EARTHWORKS SECTIONS SHEET 1

DRAWING No: C013874.06-SSDA350 ISSUE: C



LEGEND:

- ―― - DENOTES BULK EARTHWORKS PROFILE
- – – - DENOTES EXISTING PROFILE
- 🟥 - DENOTES AREA IN CUT
- 🟩 - DENOTES AREA IN FILL

CUT/FILL DEPTH	BULK EARTHWORKS LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
			0.000
			10.000
		49.173	20.000
-0.505	48.902	49.408	30.000
4.711	54.500	49.789	40.000
4.556	54.518	49.962	50.000
4.505	54.733	50.228	60.000
4.468	54.919	50.451	70.000
4.340	55.000	50.660	80.000
4.162	55.000	50.838	90.000
4.020	55.000	50.980	100.000
3.936	55.000	51.064	110.000
3.879	55.000	51.121	120.000
3.830	55.000	51.170	130.000
3.699	55.000	51.301	140.000
3.643	55.000	51.357	150.000
3.683	55.000	51.317	160.000
3.773	55.000	51.227	170.000
3.888	55.000	51.112	180.000
4.044	55.000	50.956	190.000
4.100	55.000	50.900	200.000
4.030	55.000	50.970	210.000
3.954	55.000	51.046	220.000
3.825	55.000	51.175	230.000
3.801	55.000	51.199	240.000
3.885	55.000	51.115	250.000
3.882	55.000	51.118	260.000
3.868	54.999	51.131	270.000
0.685	52.000	51.315	280.000
0.436	52.000	51.564	290.000
0.202	52.000	51.798	300.000
0.027	52.000	51.973	310.000
2.962	55.108	52.147	320.000
2.039	54.391	52.352	330.000
2.506	55.063	52.557	340.000
1.905	54.676	52.771	350.000
-2.021	50.993	53.014	360.000
-2.367	50.786	53.154	370.000
-2.712	50.629	53.342	380.000
-2.483	51.071	53.554	390.000
-0.652	52.970	53.622	400.000
1.826	55.500	53.674	410.000
1.735	55.500	53.765	420.000
1.862	55.636	53.774	430.000
1.945	55.636	53.691	440.000
2.144	55.635	53.491	450.000
2.316	55.635	53.319	460.000
1.921	55.635	53.714	470.000
-0.980	55.635	56.615	480.000
2.362	55.635	53.273	490.000
3.147	55.635	52.488	500.000
3.212	55.635	52.423	510.000
3.031	55.635	52.604	520.000
2.220	55.635	53.415	530.000
1.724	55.635	53.911	540.000
2.259	55.635	53.375	550.000
1.687	55.635	53.948	560.000
1.745	55.635	53.889	570.000
1.222	55.634	54.413	580.000
1.056	55.634	54.578	590.000
0.838	55.634	54.796	600.000
0.672	55.634	54.963	610.000
0.647	55.634	54.987	620.000
-0.348	55.634	55.982	630.000
-0.836	55.634	56.470	640.000
-1.007	55.634	56.641	650.000
-1.427	55.634	57.060	660.000
-1.955	55.501	57.456	670.000
		58.099	680.000
		58.602	690.000
			700.000

SECTION 5

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

CUT/FILL DEPTH	BULK EARTHWORKS LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
		40.43	0.000
		39.995	10.000
		39.901	20.000
-0.813	39.000	39.813	30.000
5.169	45.000	39.831	40.000
5.286	45.000	39.714	50.000
4.717	45.000	40.283	60.000
4.221	45.000	40.779	70.000
2.856	45.000	42.144	80.000
3.754	45.000	41.246	90.000
4.559	45.000	40.441	100.000
4.898	45.000	40.102	110.000
4.246	45.000	40.754	120.000
3.107	45.000	41.893	130.000
0.819	45.000	44.181	140.000
1.880	45.000	43.120	150.000
2.150	45.000	42.850	160.000
2.030	45.000	42.970	170.000
1.916	45.000	43.084	180.000
1.796	45.000	43.204	190.000
1.670	45.000	43.330	200.000
1.512	45.000	43.488	210.000
1.357	45.000	43.643	220.000
1.199	45.000	43.801	230.000
1.020	45.000	43.980	240.000
0.842	45.000	44.158	250.000
0.537	45.000	44.463	260.000
-0.406	45.000	45.406	270.000
-1.909	45.000	46.909	280.000
-3.526	45.000	48.526	290.000
-4.478	45.000	49.478	300.000
-4.587	45.000	49.587	310.000
-4.695	45.000	49.695	320.000
-4.807	45.000	49.807	330.000
-3.529	46.392	49.921	340.000
-1.540	48.500	50.040	350.000
-1.656	48.500	50.156	360.000
-1.772	48.500	50.272	370.000
4.173	54.560	50.387	380.000
4.209	54.699	50.490	390.000
4.265	54.838	50.572	400.000
4.329	54.976	50.648	410.000
4.211	55.000	50.789	420.000
2.995	55.000	52.005	430.000
3.018	55.000	51.982	440.000
2.832	55.000	52.168	450.000
2.603	55.000	52.397	460.000
2.344	55.000	52.656	470.000
2.113	55.000	52.887	480.000
1.880	55.000	53.120	490.000
1.626	55.000	53.374	500.000
1.402	55.000	53.598	510.000
1.045	55.000	53.955	520.000
0.620	55.000	54.380	530.000
0.395	55.000	54.605	540.000
0.163	55.000	54.837	550.000
-0.205	55.000	55.205	560.000
-0.761	55.000	55.761	570.000
-1.132	55.000	56.132	580.000
-2.125	55.000	57.125	590.000
-2.812	54.960	57.772	600.000
-4.017	54.825	58.842	610.000
-4.566	54.690	59.256	620.000
-4.991	54.552	59.544	630.000
2.607	62.148	59.541	640.000
-0.137	61.254	61.391	650.000
-1.387	61.061	62.448	660.000
-1.109	62.540	63.648	670.000
-0.756	64.085	64.842	680.000
-1.442	64.500	65.942	690.000
-2.497	64.500	66.997	700.000
-3.707	64.500	68.207	710.000
-3.117	67.737	70.853	1001.228
-3.854	65.000	68.854	720.000
-4.315	65.000	69.315	730.000
-4.682	65.000	69.682	740.000
-4.837	65.000	69.837	750.000
-4.589	65.000	69.589	760.000
-4.277	65.000	69.277	770.000
-3.830	65.000	68.830	780.000
-3.566	65.000	68.566	790.000
-3.439	65.000	68.439	800.000
-3.586	65.000	68.586	810.000
-3.843	65.000	68.843	820.000
-4.486	65.000	69.486	830.000
-5.289	65.000	70.289	840.000
-5.680	65.000	70.680	850.000
-6.039	65.000	71.039	860.000
-6.178	65.000	71.178	870.000
-6.038	65.000	71.038	880.000
-6.146	65.000	71.146	890.000
-6.202	65.000	71.202	900.000
-6.131	65.000	71.131	910.000
-5.779	65.000	70.779	920.000
-5.293	65.000	70.293	930.000
-4.871	65.000	69.871	940.000
-4.599	65.000	69.599	950.000
-4.494	65.000	69.494	960.000
-4.597	65.000	69.597	970.000
-4.880	65.000	69.880	980.000
-5.328	65.000	70.328	990.000
-2.966	67.823	70.789	1000.000
-0.302	70.901	71.203	1010.000
-0.042	71.276	71.318	1020.000
		71.379	1030.000
		71.031	1040.000
		71.12	1041.394

SECTION 6

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RtS SUBMISSION	06.04.22	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	01.06.21	C
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	21.05.21	B
ISSUED FOR PRELIMINARY ONLY	09.04.21	A

AMENDMENTS	DATE	ISSUE

AMENDMENTS	DATE	ISSUE

ARCHITECT
SBA ARCHITECTS
Commercial Industrial Residential Retail Interior Design
Suite 702, 83 Mount Street, North Sydney NSW 2060
T 02 9929 9988 F 02 9929 8899
E info@sbaarch.com.au W www.sbaarch.com.au

CLIENT
The GPT Group

PROJECT
YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
DS	JB	APRIL '21	DS	A0	AS SHOWN	C013874.06-SSDA351

CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.
Consulting Engineers ACN 003 696 446
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3731
email: mail@costinroe.com.au ©

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PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE
BULK EARTHWORKS SECTIONS
SHEET 2

DRAWING No C013874.06-SSDA351
ISSUE D

INTERALLOTMENT DRAIN DISCHARGES TO EXISTING MAMRE ROAD FRONTAGE. PROVIDE NEW 2m WIDE, 1.5m DEEP SWALE TO EXISTING RCBC

BIO-RETENTION CELL B:
BIO-RETENTION AREA = 540m²
FSL RL40.60
400mm EXTENDED DETENTION DEPTH
500mm MIN FILTER MEDIA

PROVIDE Ø1500 INTERALLOTMENT PIPE @ 1.0% WITH 25% BLOCKAGE TO DIVERT UPSTREAM CATCHMENT. RETAINING WALL TO BE FOUNDED BELOW 20I OF DRAINAGE PIPE

UPSTREAM CATCHMENT ENTRY POINT
Q20 FLOW = 3.60m³/s
Q100 FLOW = 5.40m³/s

PROVIDE 2.5m WIDE, 0.5m DEEP VEGETATED DIVERSION SWALE TO CAPTURE UPSTREAM CATCHMENT. SWALE DISCHARGES TO FIELD INLET PIT & Ø1500 RCP LINE

FUTURE ROAD CONSTRCTION BY ALIRO GROUP.

WAREHOUSE 5
FFL 45.30
±1000mm

ESTATE BASIN 1:
COMBINED OSD AND BIO-RETENTION BASIN
ON-SITE DETENTION VOLUME = 3,900m³
BIO-RETENTION AREA = 1,340m²

DISCHARGE POINT 1:
SITE DISCHARGES TO EXISTING 2x1.2x.0.6 RCBC.

PROVIDE LOW-FLOW DIVERSION PIT & GPT BEFORE DISCHARGING TO BIO-RETENTION BASIN

GPT

PROVIDE MIN. 1250m³ OF LONG-TERM RETENTION STORAGE. PROVIDE 170L/hr PUMP DISCHARGE IN A 300mm DEEP SUMP.

BIO-RETENTION CELL A:
BIO-RETENTION AREA = 800m²
FSL R 40.60
400mm EXTENDED DETENTION DEPTH
500mm MIN FILTER MEDIA

RESIDUAL LOT
INFERRED PAD
LEVEL RL45.70

TEMPORARY ACCESS ROAD. TO BE MADE REDUNDANT ON COMPLETION OF ESTATE ROAD CONNECTIONS

MAMRE ROAD

WAREHOUSE 4
FFL 55.30
±1000mm

BIO-RETENTION CELL A:
BIO-RETENTION AREA = 650m²
FSL RL 51.90
400mm EXTENDED DETENTION DEPTH
500mm MIN FILTER MEDIA

ROAD 1

ROAD 2

REFER TO DRAWING SSDA743 FOR WAREHOUSE 3 DRAINAGE LAYOUT

WAREHOUSE 3
FFL 65.50
±1000mm

E2 CHANNEL

RE-ALIGNED E2 CORRIDOR. REFER TO DRAWING SSDA420 FOR DETAILS

PROVIDE MIN. 1000m³ OF LONG-TERM RETENTION STORAGE. PROVIDE 670L/hr PUMP DISCHARGE IN A 300mm DEEP SUMP. PROVIDE LOW-FLOW DIVERSION PIT & GPT BEFORE DISCHARGING TO BIO-RETENTION BASIN.

WAREHOUSE 2
FFL 56.50
±1000mm

UPSTREAM CATCHMENT ENTRY POINT
Q20 FLOW = 4.10m³/s
Q100 FLOW = 6.00m³/s

REFER TO DRAWING SSDA410 & 411 FOR ROADOWORKS STORMWATER DRAINAGE PLANS

REFER TO DRAWING SSDA420 FOR E2 CORRIDOR & SSDA432 FOR ESTATE BASIN 2

DISCHARGE POINT 2:
SITE DISCHARGES THROUGH PROPOSED BOX CULVERT TO PROPOSED RIPARIAN CORRIDOR ON MIRVAC LAND.

ESTATE BASIN 2:
UTILISE PROPOSED E2 CORRIDOR FOR STORMWATER TREATMENT AND RETENTION
ON-SITE DETENTION VOLUME = 8,000m³
BIO-RETENTION AREA = 1,300m²

BIO-RETENTION CELL B:
BIO-RETENTION AREA = 650m²
FSL RL 51.90
400mm EXTENDED DETENTION DEPTH
500mm MIN FILTER MEDIA

WAREHOUSE1
FFL 56.50
±1000mm

REFER TO DRAWING SSDA741 FOR WAREHOUSE 1 DRAINAGE LAYOUT

LIMIT OF WORKS

INTERFACE WITH MIRVAC ESTATE ROAD GEOMETRY TO BE CONFIRMED

MIRVAC
"ASPECT INDUSTRIAL ESTATE"
PER SSD-10448

UPSTREAM CATCHMENT ENTRY POINT
Q20 FLOW = 0.40m³/s
Q100 FLOW = 0.60m³/s

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN. FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON A PLAN OF SURVEY 20119 DE-01 BY STATIKER 26/09/20.

- 50.00 – FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 – FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- 50.10 – EXISTING ESTATE CONTOUR
- SW – INFRASTRUCTURE DRAINAGE
- SW – FUTURE SITE DRAINAGE
- POST-DEVELOPMENT CATCHMENT
- KIP, KERB INLET PIT
- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT

STORMWATER DRAINAGE MASTER PLAN
SCALE 1:1000

10m 0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT A0 SIZE SHEET

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RFS SUBMISSION	06.04.22	F
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	01.06.21	E
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	26.05.21	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	24.05.21	C
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	21.05.21	B
ISSUED FOR PRELIMINARY ONLY	09.04.21	A

AMENDMENTS	DATE	ISSUE
REVISED FOR RFS SUBMISSION	07.04.22	G

AMENDMENTS	DATE	ISSUE

ARCHITECT
SBA ARCHITECTS
Suite 702, 83 Mount Street, North Sydney NSW 2060
T: 02 9929 5955 F: 02 9929 5959
E: info@sbaarchitects.com.au W: www.sbaarchitects.com.au

CLIENT
The GPT Group

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KEMPS CREEK NSW

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Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-5721
email: mail@costinroe.com.au

Costin Roe Consulting
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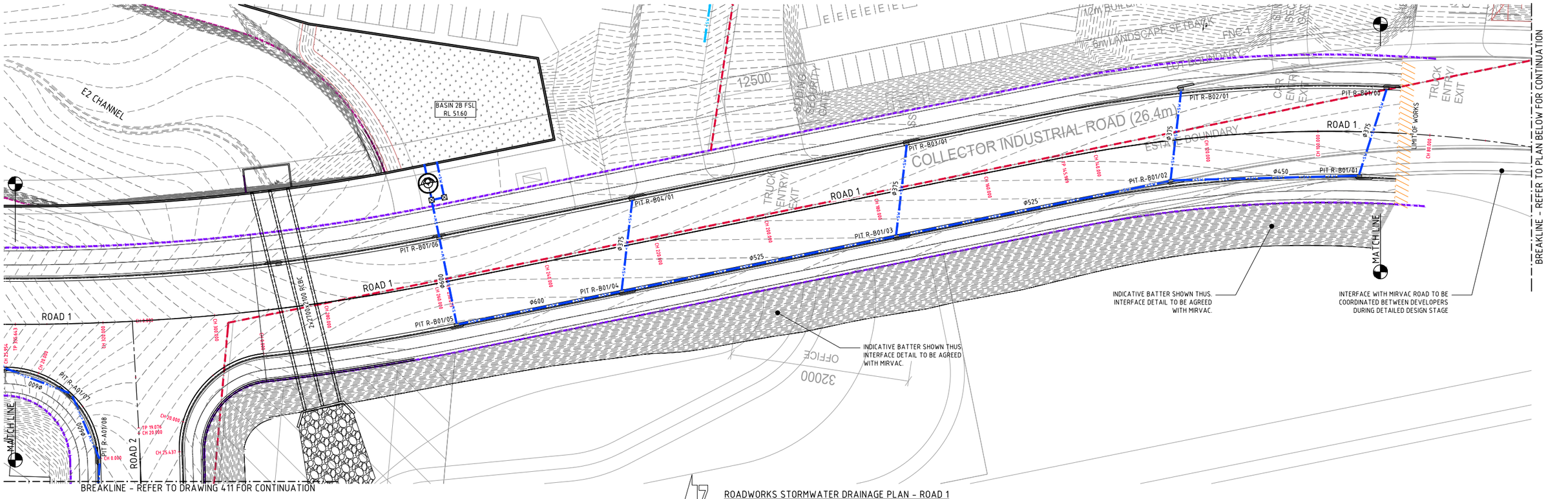
DRAWING TITLE
STORMWATER DRAINAGE MASTERPLAN

DRAWING No C013874.06-SSDA400 ISSUE G



ROADWORKS STORMWATER DRAINAGE PLAN - ROAD 1
SCALE 1:250

LEGEND:

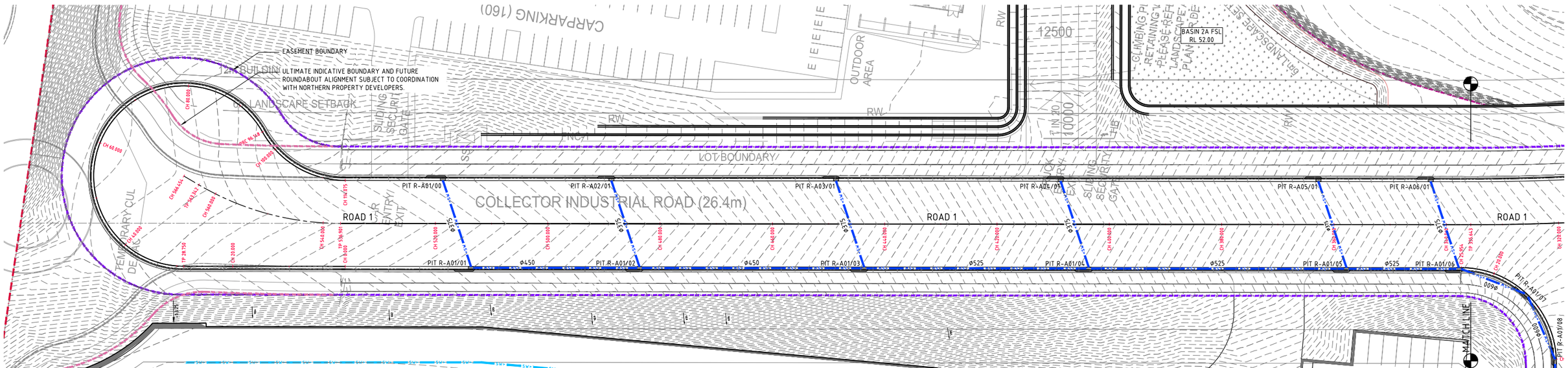
LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON A PLAN OF SURVEY 20119 DE-01 BY STATIKER 26/09/20.

- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- EXISTING ESTATE CONTOUR
- INFRASTRUCTURE DRAINAGE
- FUTURE SITE DRAINAGE
- KIP, KERB INLET PIT
- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN. FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.



ROADWORKS STORMWATER DRAINAGE PLAN - ROAD 1
SCALE 1:250

2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE SHEET

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
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REVISED FOR RtS SUBMISSION	06.04.22	A

ARCHITECT: SBA ARCHITECTS
CLIENT: GPT The GPT Group

PROJECT: YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3721
email: mail@costinroe.com.au

Costin Roe Consulting
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DRAWING TITLE: ROADWORKS STORMWATER DRAINAGE PLAN - SHEET 1
DRAWING No: C013874.06-SSDA410 ISSUE: B

BREAKLINE - REFER TO DRAWING 410 FOR CONTINUATION

BREAKLINE - REFER TO PLAN BELOW FOR CONTINUATION

MATCH LINE

ROAD 1

ROAD 2

PIT R-A01/12 · PIT R-A01/11 · PIT R-A01/10 · PIT R-A01/09 · PIT R-A01/08 · PIT R-A01/07 · PIT R-A06/01

PIT R-A12/01 · PIT R-A11/01 · PIT R-A10/01 · PIT R-A09/02 · PIT R-A09/01

Ø750 · Ø675 · Ø450 · Ø375 · Ø600 · Ø525

INDICATIVE BATTER SHOWN THUS.
INTERFACE DETAIL TO BE AGREED
WITH MIRVAC.

ROADWORKS STORMWATER DRAINAGE PLAN - ROAD 2
SCALE 1:250

BREAKLINE - REFER TO PLAN ABOVE FOR CONTINUATION

MATCH LINE

ROAD 2

PIT R-A15/02 · PIT R-A01/15 · PIT R-A01/14 · PIT R-A01/13

PIT R-A15/01 · PIT R-A14/01 · PIT R-A13/01

Ø1050 · Ø750 · Ø375

INDICATIVE BATTER SHOWN THUS.
INTERFACE DETAIL TO BE AGREED
WITH MIRVAC.

ROADWORKS STORMWATER DRAINAGE PLAN - ROAD 2
SCALE 1:250

LEGEND:
LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON A PLAN OF SURVEY 20119 DE-01 BY STATIKER 26/09/20.

- 50.00 – FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 – FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- 50.10 – EXISTING ESTATE CONTOUR
- SW – INFRASTRUCTURE DRAINAGE
- SW – FUTURE SITE DRAINAGE
- KIP, KERB INLET PIT
- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT

LEVELS NOTE:
LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN. FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE SHEET

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RtS SUBMISSION	07.04.22	D
REVISED FOR RtS SUBMISSION	06.04.22	C
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	01.06.21	B
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	21.05.21	A

ARCHITECT: SBA ARCHITECTS
Suite 702, 83 Mount Street, North Sydney NSW 2060
T: 02 9929 5988 F: 02 9929 5930
E: info@sbaarch.com.au W: www.sbaarch.com.au

CLIENT: GPT The GPT Group

PROJECT: YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9241-7699 Fax: (02) 9241-5721
email: mail@costinroe.com.au

Costin Roe Consulting
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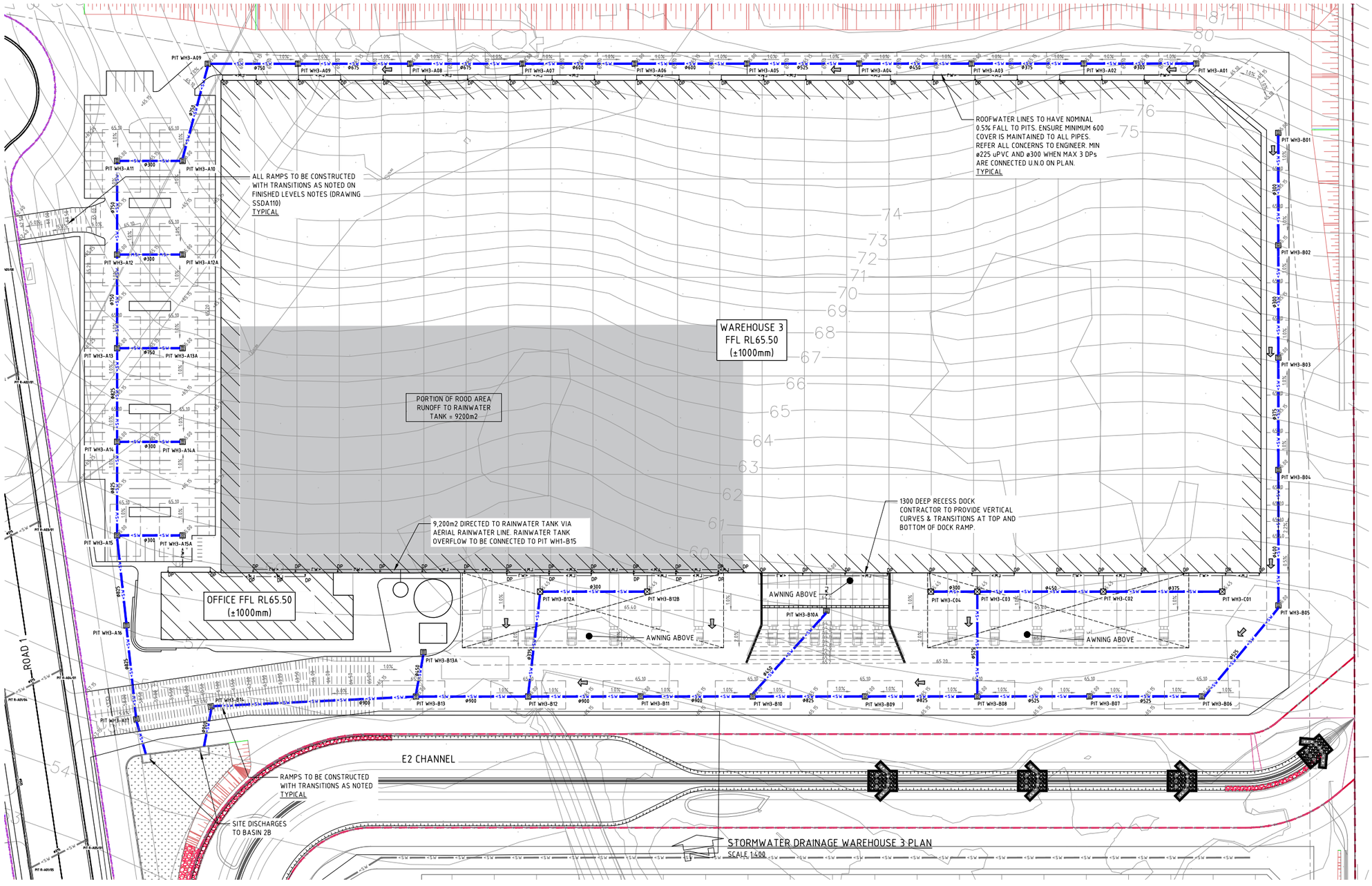
DRAWING TITLE: ROADWORKS STORMWATER DRAINAGE PLAN - SHEET 2

DRAWING No: C013874.06-SSDA411 ISSUE: D



LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON A PLAN OF SURVEY 20119 DE-01 BY STATIKER 26/09/20.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING ESTATE DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- EXISTING ESTATE CONTOUR

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 SSDA511.
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.

PIT SCHEDULE - NETWORK A

PIT No.	GRATE RL	DEPTH	TYPE	GRATE SIZE	COMMENT
PIT WH3-A01	65.00		SGGP	900x900	◇
PIT WH3-A02	65.00		SGGP	900x900	◇
PIT WH3-A03	65.00		SGGP	900x900	◇
PIT WH3-A04	65.00		SGGP	900x900	◇
PIT WH3-A05	65.00		SGGP	900x900	◇
PIT WH3-A06	65.00		SGGP	900x900	◇
PIT WH3-A07	65.00		SGGP	900x900	◇
PIT WH3-A08	65.00		SGGP	900x900	◇
PIT WH3-A09	65.00		SGGP	900x900	◇
PIT WH3-A10	65.00		SGGP	900x900	◇
PIT WH3-A10A	65.00		SGGP	900x900	◇
PIT WH3-A11	65.00		SGGP	900x900	◇
PIT WH3-A11A	65.00		SGGP	900x900	◇
PIT WH3-A12	65.00		SGGP	900x900	◇
PIT WH3-A13	65.00		SGGP	900x900	◇
PIT WH3-A14A	65.00		SGGP	900x900	◇
PIT WH3-A15	65.00		SGGP	900x900	◇
PIT WH3-A15A	65.00		SGGP	900x900	◇
PIT WH3-A16	65.00		SGGP	900x900	◇
PIT WH3-A17	65.00		SGGP	900x900	◇

PIT SCHEDULE - NETWORK B

PIT No.	GRATE RL	DEPTH	TYPE	GRATE SIZE	COMMENT
PIT WH3-B01	65.00		SGGP	900x900	◇
PIT WH3-B02	65.00		SGGP	900x900	◇
PIT WH3-B03	65.00		SGGP	900x900	◇
PIT WH3-B04	65.00		SGGP	900x900	◇
PIT WH3-B05	65.00		SGGP	900x900	◇
PIT WH3-B06	65.00		SGGP	900x900	◇
PIT WH3-B07	65.00		SGGP	900x900	◇
PIT WH3-B08	65.00		SGGP	900x900	◇
PIT WH3-B09	65.00		SGGP	900x900	◇
PIT WH3-B10	65.00		SGGP	900x900	◇
PIT WH3-B10A	65.00		SGGP	900x900	◇
PIT WH3-B11	65.00		SGGP	900x900	◇
PIT WH3-B12	65.00		SGGP	900x900	◇
PIT WH3-B12A	65.45		SJP	900x900	
PIT WH3-B12B	65.45		SJP	900x900	
PIT WH3-B13	65.00		SGGP	900x900	◇
PIT WH3-B13A	65.00		SGGP	900x900	◇
PIT WH3-B14	65.00		SGGP	900x900	◇

PIT SCHEDULE NETWORK C

PIT No.	GRATE RL	DEPTH	TYPE	GRATE SIZE	COMMENT
PIT WH3-C01	65.45		SJP	900x900	
PIT WH3-C02	65.45		SJP	900x900	
PIT WH3-C03	65.45		SJP	900x900	
PIT WH3-C04	65.45		SJP	900x900	

NOTE:

PITS TO BE FITTED WITH OCEAN PROTECT OCEAN GUARD OG200 PIT INSERTS SHOWN THUS ◇
TOTAL NO OF PIT INSERTS = 42
REFER TO PIT SCHEDULE ABOVE

LEVELS NOTE:

LEVELS SHOWN TO BE +/-1000mm FROM THOSE SHOWN. FINAL LEVELS SUBJECT TO FINAL GEOTECHNICAL INVESTIGATIONS, ARCHITECTURAL LAYOUT AND ACHIEVING A CUT TO FILL EARTHWORKS BALANCE OVER THE PROPERTY.

4m 0 10 20 30 40m
SCALE 1:400 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

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ARCHITECT
SBA ARCHITECTS
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T: 02 9929 5988 F: 02 9929 5990
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Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-5721
email: mail@costinroe.com.au

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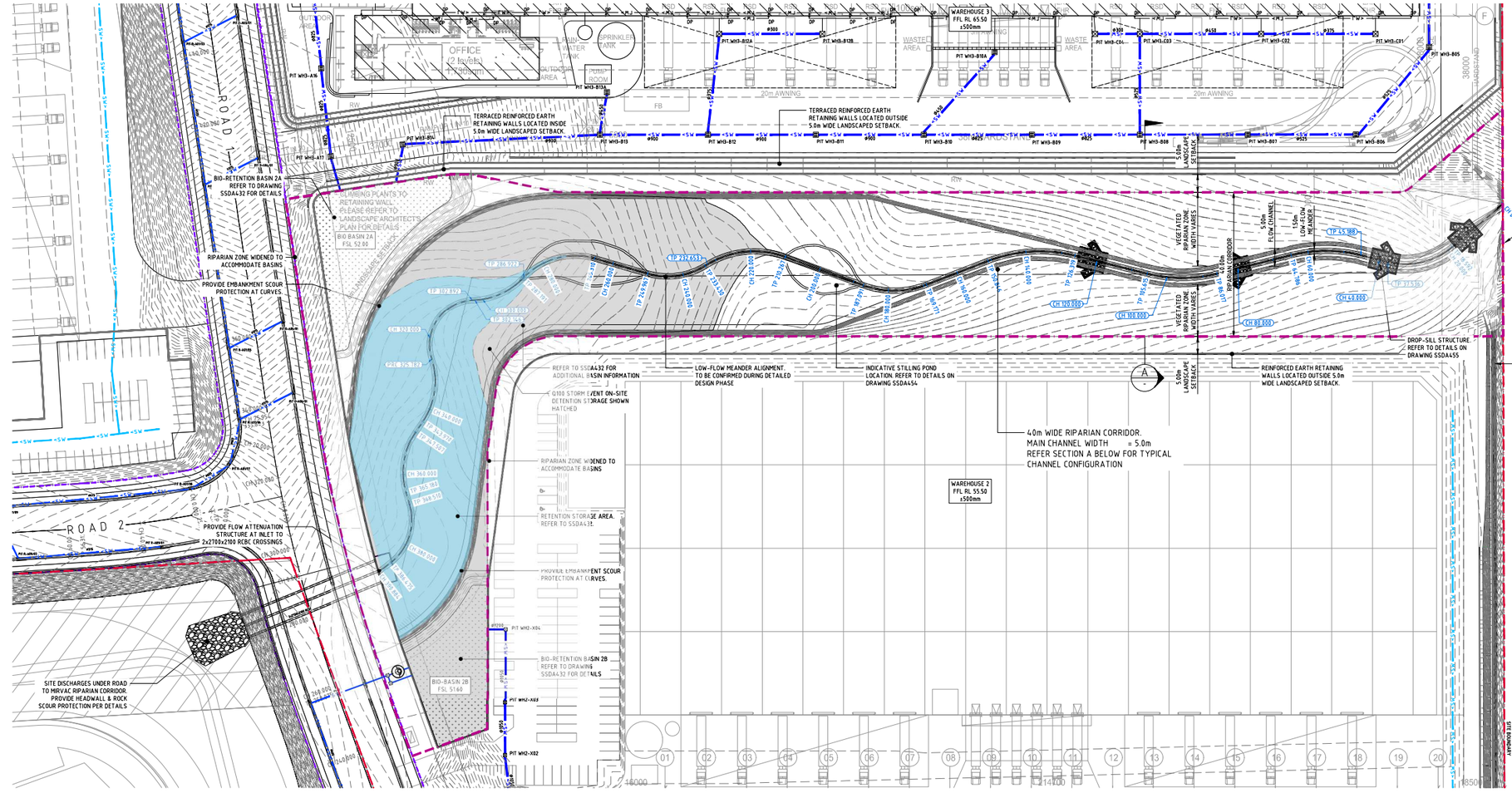
DRAWING TITLE
STORMWATER DRAINAGE
WAREHOUSE 3 PLAN

DRAWING No. C013874.06-SSDA413 ISSUE B



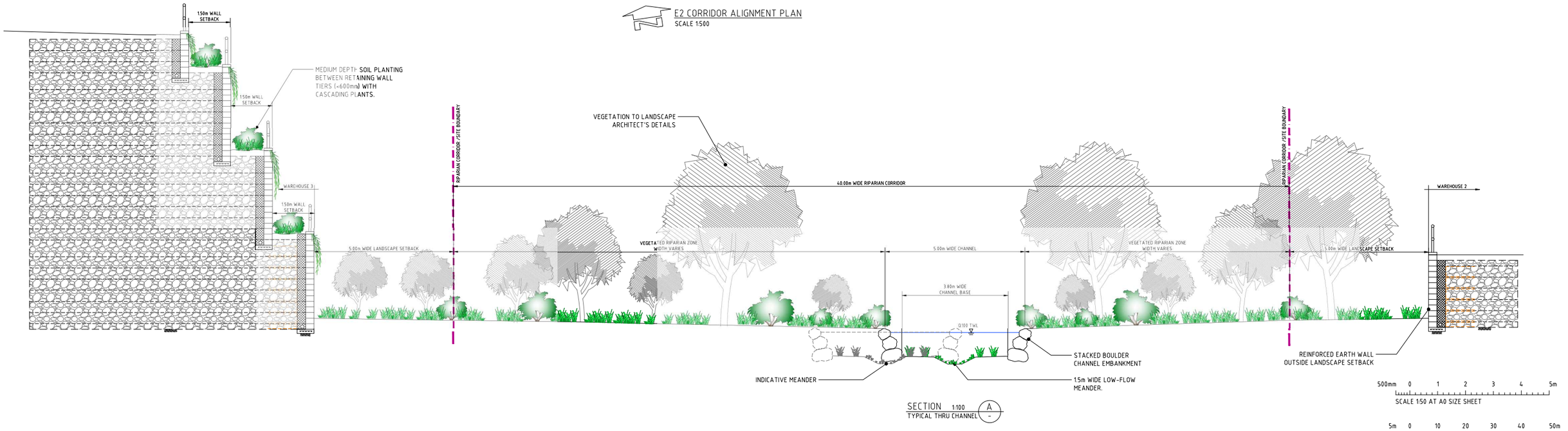
E2 CORRIDOR ALIGNMENT PLAN
SCALE 1:500

LEGEND:
LEVELS DATUM IS AHD.

- SW> – DENOTES PROPOSED INFRASTRUCTURE STORMWATER
- SW> – DENOTES FUTURE WAREHOUSE STORMWATER
- – E2 CORRIDOR/WAREHOUSE BOUNDARY
- – APPROXIMATE 100 YEAR OSD STORAGE AREA
- – RETENTION STORAGE AREA

BASIN LOCATION ZONE

BASIN LOCATED WITH TEMPORARY OSD STORAGE WITHIN E2 CORRIDOR & WATERCOURSE IN ACOORDANCE WITH THE FINAL MAMRE ROAD PRECINCT DCP, SECTION 2.4, CONTROL 12-14. REFER TO SSDA432



SECTION A – TYPICAL THRU CHANNEL 1:100

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

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

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RFS SUBMISSION	15.09.22	E
REVISED FOR RFS SUBMISSION	09.09.22	D
REVISED FOR RFS SUBMISSION	07.04.22	C
REVISED FOR RFS SUBMISSION	06.04.22	B
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	21.05.21	A

ARCHITECT
SBA ARCHITECTS
Suite 702, 83 Mount Street, North Sydney NSW 2060
02 9929 9966 02 9929 9939
info@sbaarch.com.au www.sbaarch.com.au

CLIENT
GPT
The GPT Group

PROJECT
YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
DS	JB	APRIL '21	DS	A0	AS SHOWN	C013874.06-SSDA420

Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7900 Fax: (02) 9241-3731
email: mail@costinroe.com.au ©

Costin Roe Consulting
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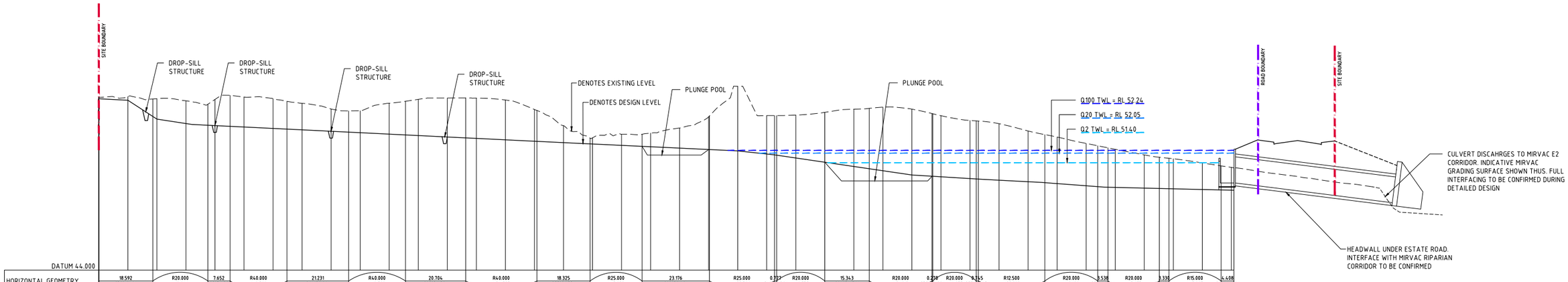
DRAWING TITLE
E2 CORRIDOR
ALIGNMENT PLAN

DRAWING No C013874.06-SSDA420 ISSUE E



LONGITUDINAL SECTION - E2 CORRIDOR MEANDERING

HORIZONAL SCALE 1:500
VERTICAL SCALE 1:100

E2 RIPARIAN CORRIDOR MEANDERING PROFILE

NTS

DETAIL 1:10 LOW FLOW CHANNEL

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RfS SUBMISSION	06.04.22	C
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ARCHITECT
SBA ARCHITECTS
Commercial Industrial Residential Retail Interior Design
Suite 702, 83 Mount Street, North Sydney NSW 2060
T 02 9929 9988 F 02 9929 8899
E info@sbaarch.com.au W www.sbaarch.com.au

CLIENT
The GPT Group

PROJECT
YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.
Consulting Engineers ACN 003 696 446
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3731
email: mail@costinroe.com.au ©

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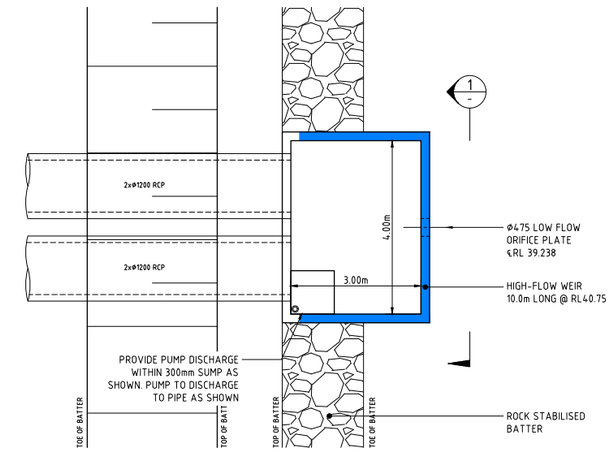
DRAWING TITLE
RIPARIAN CORRIDOR
CENTRELINE LONG SECTION

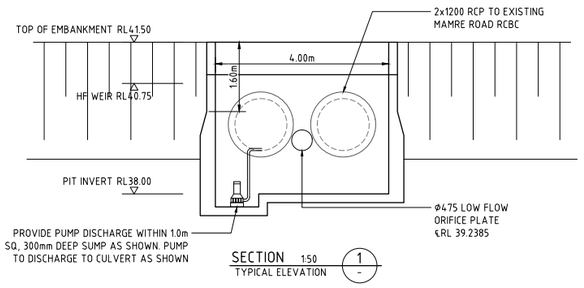
DRAWING No C013874.06-SSDA421
ISSUE C

PIT X01/06
PIT X01/05
PIT X01/04
PIT X01/03
Φ1500
CONSTRUCTION OF INFRASTRUCTURE DRAINAGE TO BE COORDINATED WITH RETAINING WALL CONSTRUCTION
PROVIDE SEDIMENT FOREBAY AT INLET TO BASIN. DETAILS TO BE CONFIRMED DURING DETAILED DESIGN PHASE.
Φ1500 RCP INTERALLOTMENT DRAIN TO DIVERT UPSTREAM CATCHMENT. BYPASSES BASIN 1
FUTURE WAREHOUSE DRAINAGE LINE
9 SSDA467
BIO-CELL 1B
BIO-RETENTION AREA = 540m²
FSL RL 40.60
400mm EXTENDED DETENTION DEPTH
500mm MIN THICK FILTER MEDIA
BASIN 1B FSL RL 40.60
INTERALLOTMENT DRAIN DISCHARGES INTO MAMRE ROAD TABLE DRAIN. PROVIDE RIP RAP ENERGY DISSIPATER AND NEW 2m WIDE, 1.5m DEEP SWALE TO EXISTING RCBC UNDER MAMRE ROAD
BUND TO BE SET AT RL41.50
16 SSDA467
Q2 OSD TWL RL40.40
Q20 OSD TWL RL40.95
Q100 OSD TWL RL41.07
TIERED REINFORCED EARTH RETAINING WALL
8 SSDA467
STACKED BOULDER EMBANKMENT. DETAILS TO BE CONFIRMED DURING DETAILED DESIGN.
WAREHOUSE 5
FFL RL 45.50
±1000mm
MAMRE ROAD
ESTATE BASIN 1
COMBINED ON SITE DETENTION & BIO-RETENTION BASIN
OSD VOLUME = 3,900m³
BIO-RETENTION AREA = 1,340m²
Q100 TWL = RL41.07
PROVIDE MIN. 1250m³ OF LONG-TERM RETENTION STORAGE. PROVIDE 27L/hr PUMP DISCHARGE IN A 300mm DEEP SUMP. EXTENT OF LONG-TERM STORAGE SHOWN HATCHED. NOMINAL WATER LEVEL = RL39.00
EXISTING 2x1.2x0.6 RCBC TO BE PRESERVED DURING WORKS
BASIN 1 DISCHARGE CONTROL PIT
1 x Φ475 ORIFICE @ ℄RL 39.238
1 x 10m LONG WEIR @ RL 40.75
REFER ADJACENT DETAIL A
PROVIDE 12.5m WIDE, 300mm DEEP EMERGENCY OVERFLOW WEIR SET TO RL41.20
ESTATE BASIN 1 DISCHARGES TO EXISTING BOX CULVERTS UNDER MAMRE ROAD AS SHOWN. PROVIDE ROCK ENERGY DISSIPATER PER DETAILS.
BIO-CELL 1A
BIO-RETENTION AREA = 800m²
FSL RL 40.60
400mm EXTENDED DETENTION DEPTH
500mm MIN THICK FILTER MEDIA
PROVIDE Φ300 HALF-ROUND FLOW SPREADER AT BASE OF WALL/BIO-RETENTION FILTER MEDIA.
PROVIDE SEDIMENT FOREBAY AT INLET TO BASIN. DETAILS TO BE CONFIRMED DURING DETAILED DESIGN PHASE.
LOW-FLOW DIVERSION PIT
PIT R-A01/24
Φ1350
GPT
BASIN 1 FSL RL 38.00
BASIN 1A FSL RL 40.60
17 SSDA467
CONSTRUCTION OF INFRASTRUCTURE DRAINAGE TO BE COORDINATED WITH RETAINING WALL CONSTRUCTION

ESTATE BASIN 1 PLAN
SCALE 1:250



DETAIL 1:50 A
BASIN 1 DCP PLAN



SECTION 1:50 1
TYPICAL ELEVATION -

LEGEND:
LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY BOXALL SURVEYORS (REF: 11017-001, DATED 23.07.2020)

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- PROPOSED DRAINAGE LINE
- FUTURE WAREHOUSE DRAINAGE LINE
- 2 YEAR ARI TOP WATER LEVEL
- 20 YEAR ARI TOP WATER LEVEL
- 100 YEAR ARI TOP WATER LEVEL
- OVERLAND FLOW DIRECTION
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.10m INTERVALS
- DENOTES PERMANENT WATER LEVEL

2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE SHEET

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RtS SUBMISSION	07.04.22	E
REVISED FOR RtS SUBMISSION	06.04.22	D
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	01.06.21	C
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	26.05.21	B
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	24.05.21	A

ARCHITECT
SBA ARCHITECTS
Commercial Industrial Residential Retail Interior Design
Suite 702, 83 Mount Street, North Sydney NSW 2060
T 02 9929 9988 F 02 9929 9999
E info@sbaarch.com.au W www.sbaarch.com.au

CLIENT
GPT The GPT Group

PROJECT
YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
DS	JB	APRIL '21	DS	A0	AS SHOWN	C013874.06-SSDA431

Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 8251-7700 Fax: (02) 8041-3721
email: mail@costinroe.com.au ©

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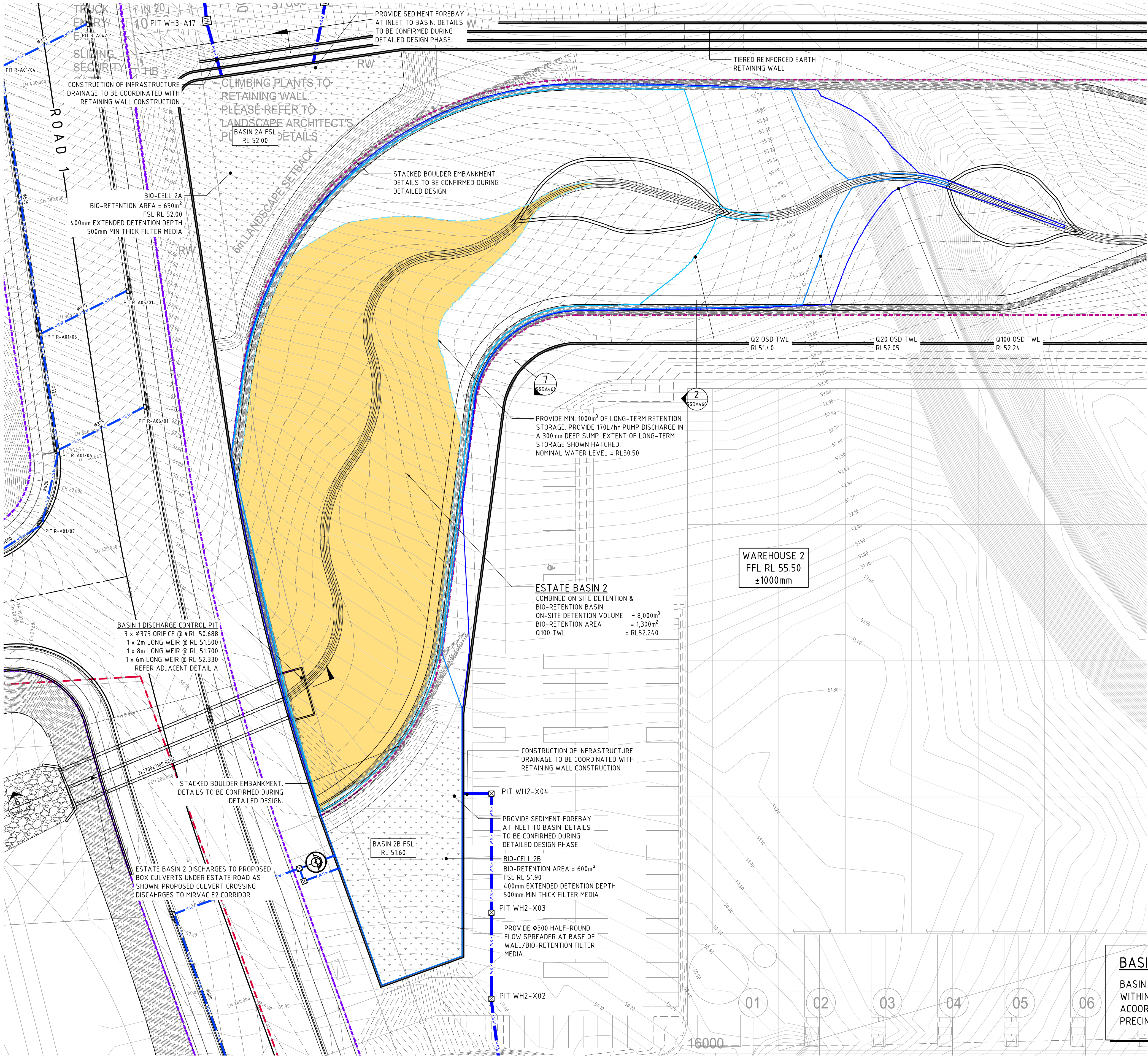
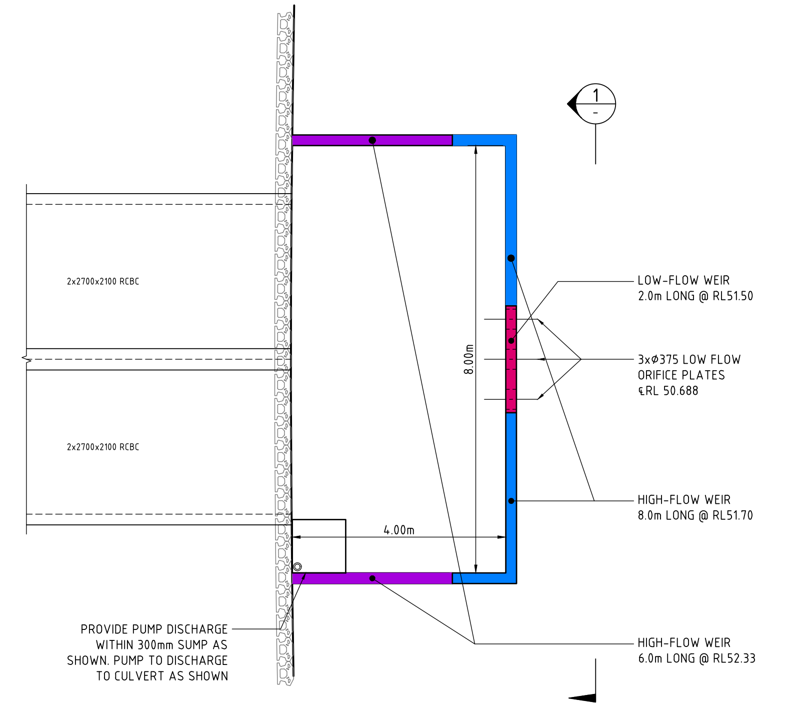
DRAWING TITLE
ESTATE BASIN 1 PLAN

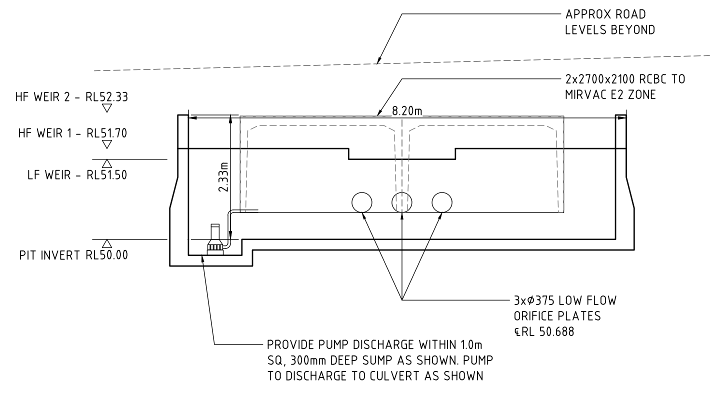
DRAWING No. C013874.06-SSDA431 ISSUE E


PROVIDE SEDIMENT FOREBAY AT INLET TO BASIN. DETAILS TO BE CONFIRMED DURING DETAILED DESIGN PHASE.
TIERED REINFORCED EARTH RETAINING WALL
CONSTRUCTION OF INFRASTRUCTURE DRAINAGE TO BE COORDINATED WITH RETAINING WALL CONSTRUCTION
CLIMBING PLANTS TO RETAINING WALL. PLEASE REFER TO LANDSCAPE ARCHITECTS DETAILS
BASIN 2A FSL RL 52.00
ROAD 1
STACKED BOULDER EMBANKMENT. DETAILS TO BE CONFIRMED DURING DETAILED DESIGN.
BIO-CELL 2A
BIO-RETENTION AREA = 650m²
FSL RL 52.00
400mm EXTENDED DETENTION DEPTH
500mm MIN THICK FILTER MEDIA
6m LANDSCAPE SETBACK
Q2 OSD TWL RL51.40
Q20 OSD TWL RL52.05
Q100 OSD TWL RL52.24
PROVIDE MIN. 1000m³ OF LONG-TERM RETENTION STORAGE. PROVIDE 170L/hr PUMP DISCHARGE IN A 300mm DEEP SUMP. EXTENT OF LONG-TERM STORAGE SHOWN HATCHED. NOMINAL WATER LEVEL = RL50.50
WAREHOUSE 2
FFL RL 55.50
±1000mm
ESTATE BASIN 2
COMBINED ON SITE DETENTION & BIO-RETENTION BASIN
ON-SITE DETENTION VOLUME = 8,000m³
BIO-RETENTION AREA = 1,300m²
Q100 TWL = RL52.240
BASIN 1 DISCHARGE CONTROL PIT
3 x Ø375 ORIFICE @ ℄RL 50.688
1 x 2m LONG WEIR @ RL 51.500
1 x 8m LONG WEIR @ RL 51.700
1 x 6m LONG WEIR @ RL 52.330
REFER ADJACENT DETAIL A
CONSTRUCTION OF INFRASTRUCTURE DRAINAGE TO BE COORDINATED WITH RETAINING WALL CONSTRUCTION
PIT WH2-X04
STACKED BOULDER EMBANKMENT. DETAILS TO BE CONFIRMED DURING DETAILED DESIGN.
PROVIDE SEDIMENT FOREBAY AT INLET TO BASIN. DETAILS TO BE CONFIRMED DURING DETAILED DESIGN PHASE.
BASIN 2B FSL RL 51.60
BIO-CELL 2B
BIO-RETENTION AREA = 600m²
FSL RL 51.90
400mm EXTENDED DETENTION DEPTH
500mm MIN THICK FILTER MEDIA
ESTATE BASIN 2 DISCHARGES TO PROPOSED BOX CULVERTS UNDER ESTATE ROAD AS SHOWN. PROPOSED CULVERT CROSSING DISCHARGES TO MIRVAC E2 CORRIDOR
PIT WH2-X03
PROVIDE Ø300 HALF-ROUND FLOW SPREADER AT BASE OF WALL/BIO-RETENTION FILTER MEDIA.
PIT WH2-X02
2x2700x2100 RCBC
01
02
03
04
05
06
16000

ESTATE BASIN 2 PLAN
SCALE 1:250


2x2700x2100 RCBC
2x2700x2100 RCBC
8.00m
4.00m
LOW-FLOW WEIR 2.0m LONG @ RL51.50
3xØ375 LOW FLOW ORIFICE PLATES ℄RL 50.688
HIGH-FLOW WEIR 8.0m LONG @ RL51.70
HIGH-FLOW WEIR 6.0m LONG @ RL52.33
PROVIDE PUMP DISCHARGE WITHIN 300mm SUMP AS SHOWN. PUMP TO DISCHARGE TO CULVERT AS SHOWN

DETAIL 1:50 A
BASIN 2 OCP PLAN


APPROX ROAD LEVELS BEYOND
2x2700x2100 RCBC TO MIRVAC E2 ZONE
8.20m
2.33m
HF WEIR 2 - RL52.33
HF WEIR 1 - RL51.70
LF WEIR - RL51.50
PIT INVERT RL50.00
3xØ375 LOW FLOW ORIFICE PLATES ℄RL 50.688
PROVIDE PUMP DISCHARGE WITHIN 1.0m SQ, 300mm DEEP SUMP AS SHOWN. PUMP TO DISCHARGE TO CULVERT AS SHOWN

SECTION 1:50 1
TYPICAL ELEVATION

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY BOXALL SURVEYORS (REF: 11017-001, DATED 23.07.2020)

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- PROPOSED DRAINAGE LINE
- FUTURE WAREHOUSE DRAINAGE LINE
- LONG-TERM STORAGE TOP WATER LEVEL
- 2 YEAR ARI TOP WATER LEVEL
- 20 YEAR ARI TOP WATER LEVEL
- 100 YEAR ARI TOP WATER LEVEL
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.10m INTERVALS

BASIN LOCATION ZONE

BASIN LOCATED WITH TEMPORARY OSD STORAGE WITHIN E2 CORRIDOR & WATERCOURSE IN ACCORDANCE WITH THE FINAL MAMRE ROAD PRECINCT DCP, SECTION 2.4, CONTROL 12-14.

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

SCALE 1:250 AT A0 SIZE SHEET (2m 0 5 10 15 20 25m)

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED FOR RFS SUBMISSION	07.04.22	D
REVISED FOR RFS SUBMISSION	06.04.22	C
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	01.06.21	B
ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION	24.05.21	A

ARCHITECT: SBA ARCHITECTS

CLIENT: The GPT Group

PROJECT: YIRIBANA LOGISTICS ESTATE
754-770 & 784-786 MAMRE ROAD
KEMPS CREEK NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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Costin Roe Consulting Pty Ltd.
Consulting Engineers
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3731
email: mail@costinroe.com.au ©

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DRAWING TITLE: ESTATE BASIN 2 PLAN

DRAWING No: C013874.06-SSDA432 ISSUE: D