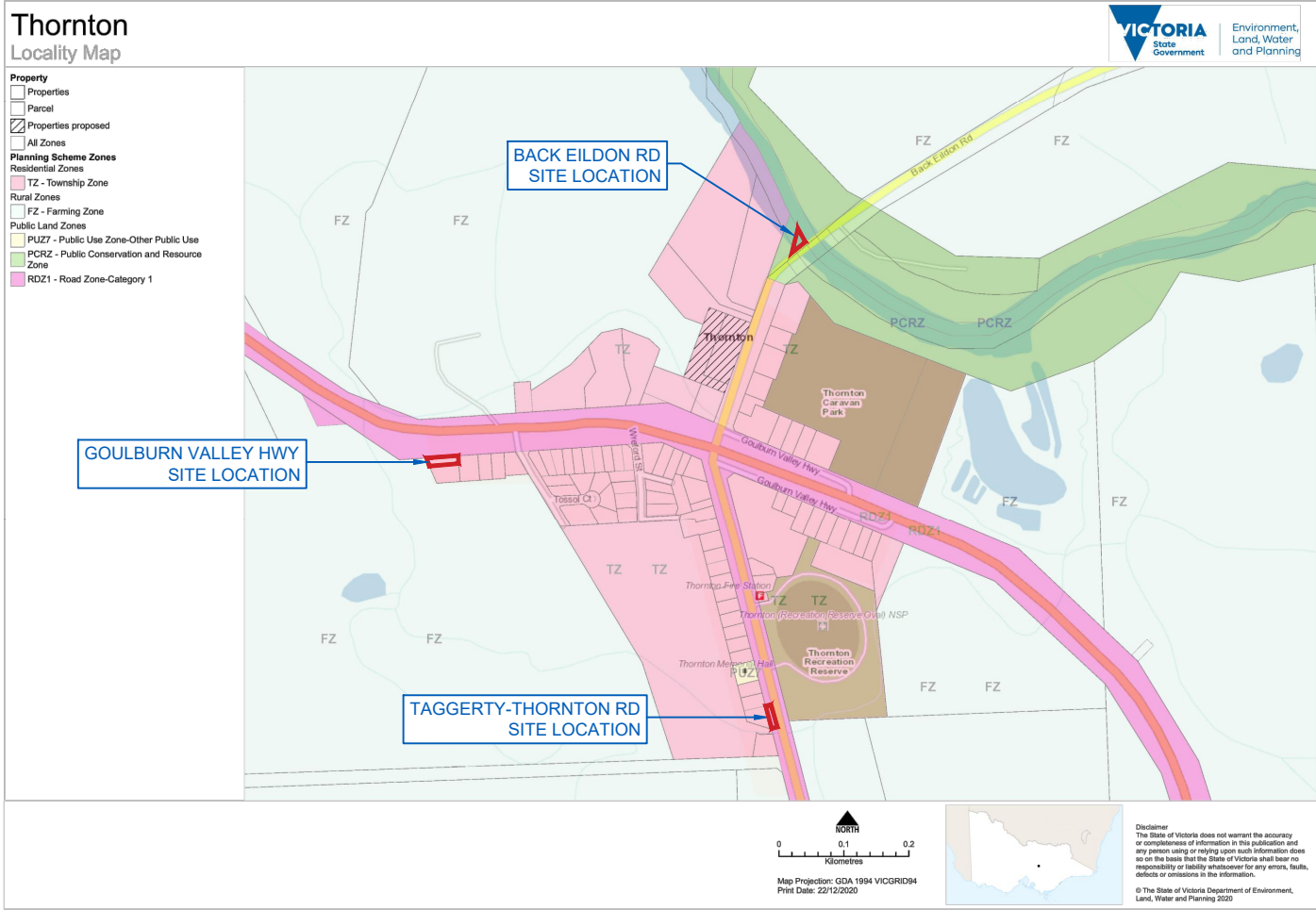


MURRINDINDI SHIRE COUNCIL

THORNTON - SUBSURFACE WETLAND



LOCALITY PLAN
N.T.S

PLAN INDEX			
SHEET	REV	DATE	DESCRIPTION
C1000	D	23/09/2021	PROJECT COVER SHEET
C1001	D	23/09/2021	CATCHMENT LAYOUT PLAN
C1002	D	23/09/2021	BACK EILDON ROAD - LAYOUT PLAN
C1003	D	23/09/2021	BACK EILDON ROAD - MAINTENANCE ACCESS
C1004	D	23/09/2021	CS AND DETAILS
C2002	D	23/09/2021	GOULBURN VALLEY HWY - LAYOUT PLAN
C3002	D	23/09/2021	TAGGERTY-THORNTON ROAD - LAYOUT PLAN

GENERAL NOTES TO BE APPROVED BY MURRINDINDI SHIRE COUNCIL:

- ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE STANDARD DRAWINGS AND SPECIFICATIONS OF MURRINDINDI SHIRE COUNCIL AND TO THE SATISFACTION OF THE SUPERINTENDENT;
- ALL DIMENSIONS ARE IN METRES UNLESS SPECIFIED OTHERWISE;
- ALL COORDINATES ARE TO AMG AND LEVELS TO AHD
- TEMPORARY PEDESTRIAN AND VEHICULAR ACCESS TO PROPERTIES SHALL BE MAINTAINED AT ALL TIMES
- ALL AFFECTED RESIDENTS AND BUSINESSES SHALL BE NOTIFIED OF THE PROPOSED WORKS AT LEAST 7 DAYS PRIOR TO CONSTRUCTION COMMENCEMENT DATE. THE CONTRACTOR SHALL MAINTAIN COMMUNICATION WITH THE RESIDENTS AND BUSINESSES DURING THE CONSTRUCTION AS REQUIRED OR DIRECTED BY THE SUPERINTENDENT
- THE LOCATION OF ANY SITE SHED OR PORTABLE TOILET MUST BE APPROVED BY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS;
- THE LOCATION OF MATERIAL STOCKPILE SHALL BE APPROVED BY THE SUPERINTENDENT AND PROTECTED TO PREVENT SEDIMENT DISCHARGES;
- THE CONTRACTOR SHALL ASSIST THE AFFECTED RESIDENTS AND BUSINESSES IN MAINTAINING THE GARBAGE COLLECTION SERVICES;
- ALL WORK WITHIN ROAD RESERVE IS TO BE PERFORMED IN ACCORDANCE WITH AS1742.3;
- ALL PITS, LIDS, VALVE COVERS, ETC. WITHIN THE WORK AREA ARE TO BE ADJUSTED TO MATCH NEW LEVELS;
- ALL SERVICE AUTHORITIES ARE TO BE NOTIFIED AND RELEVANT PERMITS TO BE RECEIVED PRIOR TO THE COMMENCEMENT OF ANY WORKS;
- ALL SERVICES WITHIN THE VICINITY OF NEW WORKS SHALL BE PROVED PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO SERVICES;
- ALL SIGNS, POLES AND ROAD FURNITURE AFFECTED BY WORKS ARE TO BE REMOVED AND RELOCATED TEMPORARILY TO COUNCIL DEPOT WITHIN THE MUNICIPALITY. SIGNS AND POLES SHALL BE REINSTATED TO THEIR ORIGINAL LOCATIONS, UNLESS SPECIFIED OTHERWISE, AT THE COMPLETION OF BACKFILLING BUT PRIOR TO TOPSOILING. ROAD FURNITURE SHALL BE RETURNED TO ITS ORIGINAL LOCATION UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT;
- LIGHT / ELECTRIC POLES SHALL BE ADEQUATELY BRACED / PROPPED NEAR EXCAVATIONS;
- WHERE PROPOSED ASPHALT WEARING COURSE MEETS EXISTING, PROFILE 1M WIDE CHASE, INCLUDING ELSEWHERE WHERE REQUIRED TO ALLOW FOR MIN. 30MM DEPTH, SIZE 10 TYPE N ASPHALT;
- ALL AREAS SURROUNDING WORKS ARE TO BE TRIMMED / IN-FILLED TO MATCH FINISHED SURFACE LEVELS. SURPLUS SPOILS TO BE DISPOSED BY THE CONTRACTOR;
- ALL ROAD CONSTRUCTION MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION;
- ALL LINE MARKING IS TO BE LONG LIFE PAINT;
- ANY SURPLUS BLUESTONE IS TO BE REMOVED, CLEANED AND TRANSPORTED TO COUNCIL DEPOT WITHIN THE MUNICIPALITY;
- ANY BLUESTONE PITCHERS THAT ARE EMBEDDED IN THE TREE ROOTS ARE TO BE LEFT IN PLACE RATHER THAN REMOVED UNLESS ADVISED OTHERWISE BY THE SUPERINTENDENT;
- THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATED MATERIALS, OTHER THAN BLUESTONE, UNLESS SPECIFIED OTHERWISE;
- ANY TREE ROOT, OVER 50 MM DIA., WHICH REQUIRES PRUNING, SHALL BE UNDERTAKEN BY COUNCIL NOMINATED SUBCONTRACTOR WITH THE APPROVAL OF THE SUPERINTENDENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIAISING WITH COUNCIL'S NOMINATED SUBCONTRACTOR;
- ALL TREES MUST BE PRESERVED AND PROTECTED AT ALL TIMES UNLESS IDENTIFIED FOR REMOVAL ON PLANS AND CONFIRMED WITH THE SUPERINTENDENT;
- ALL WORK AREAS ARE TO BE MAINTAINED CLEAN AND TIDY AT ALL TIMES;
- DISCREPANCIES BETWEEN CONSTRUCTION DRAWINGS AND EXISTING CONDITIONS ARE TO BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT;
- CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE EXISTING PRIVATE PROPERTY SUCH AS FENCES AND GATES ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION AS PROOF OF THE ORIGINAL CONDITION;
- DURING EXCAVATION OF TRENCHES, ALL EXISTING SERVICES MUST BE SUPPORTED ACROSS AN OPEN TRENCH;
- TRENCHES WHICH EXCEED 1.5M IN DEPTH SHALL BE SHORED AS REQUIRED;
- ALL DRAINAGE PIPES TO BE LAID ON A CRUSHED ROCK BASE AND ALL BACK FILL TO BE CLASS 2, 20 MM SIZE FINE CRUSHED ROCK, COMPACTED TO 95% MAXIMUM DRY DENSITY (MOD).

Notes:



D	FINAL V2	DC 23/09/21
C	FINAL V1	DC 26/07/21
B	FOR APPROVAL	DC 29/06/21
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REV:	DESCRIPTION:	BY: DATE:
STATUS:		



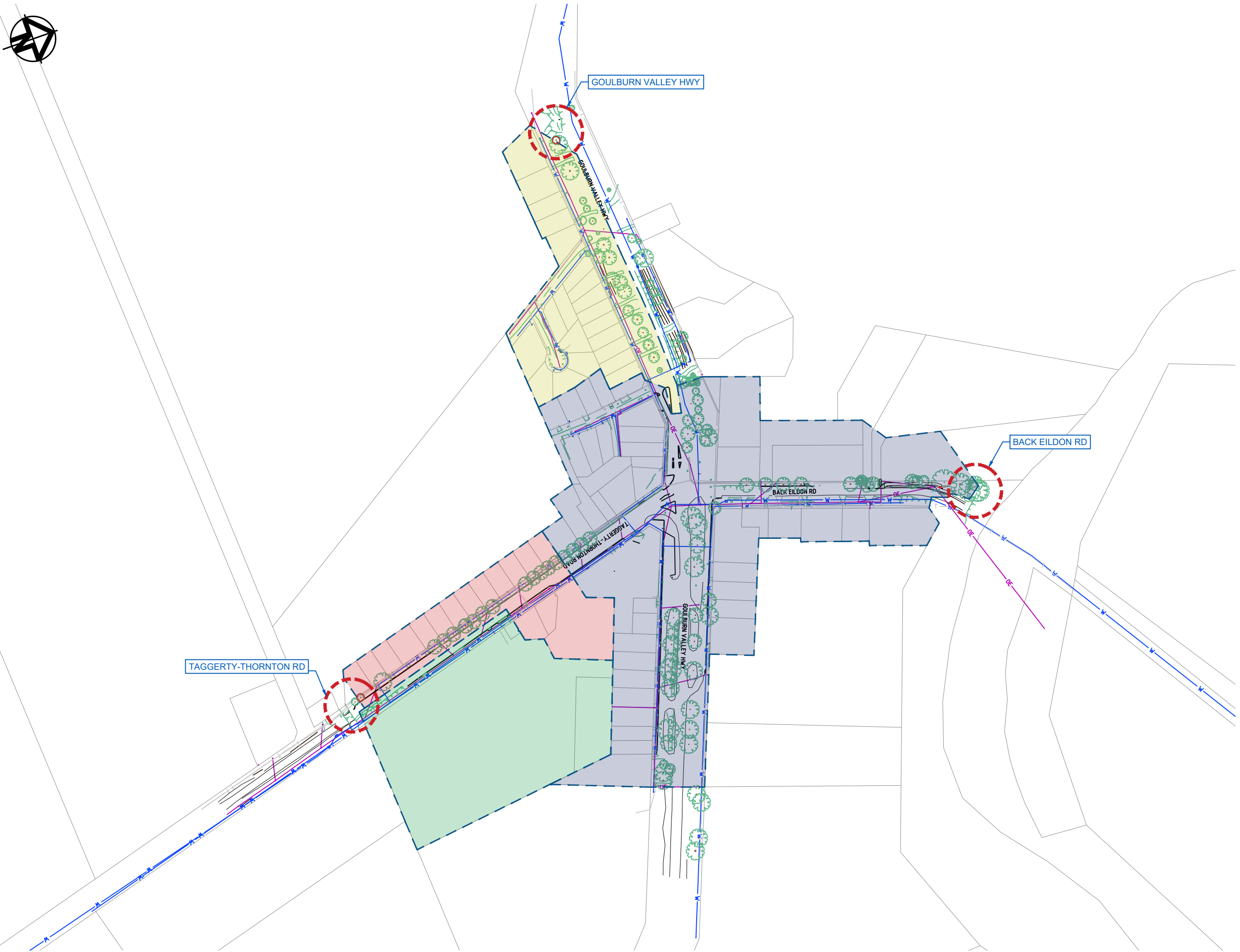
CLIENT: MURRINDINDI SHIRE COUNCIL

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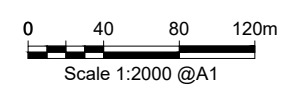
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TITLE: SUBSURFACE FLOW WETLAND
PROJECT COVER SHEET

SCALE AT A1: NTS	DATE: 23/09/21	DRAWN: SA	CHECKED: GW
PROJECT NO: M1108_1	DRAWING NO: C1000	REVISION: D	



THORNTON - CATCHMENT LAYOUT PLAN
SCALE 1:2000



Notes:

LEGEND

- GOULBURN VALLEY HWY SYSTEM CATCHMENT
AREA ~ 3.1 ha
- BACK EILDON ROAD SYSTEM CATCHMENT
AREA ~ 10.7 ha
- TAGGERTY-THORNTON ROAD SYSTEM CATCHMENT
AREA ~ 2.1 ha
- UNTREATED CATCHMENT
AREA ~ 4.4 ha

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CLIENT:

MURRINDINDI SHIRE COUNCIL

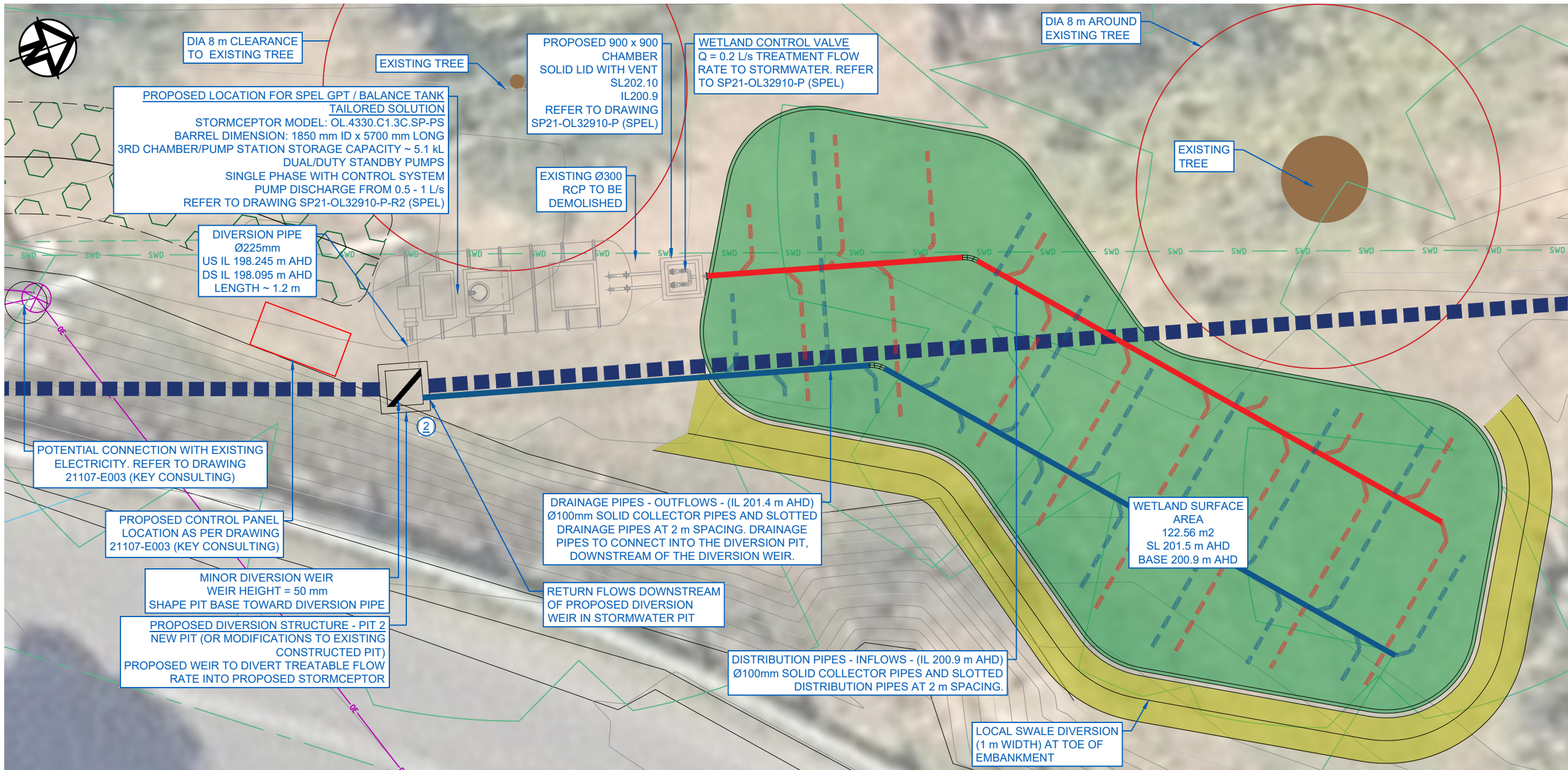
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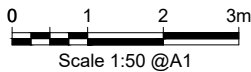
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SUBSURFACE FLOW WETLAND
CATCHMENT LAYOUT PLAN

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
2000	23/09/21	SA	GW
PROJECT NO:	DRAWING NO:	REVISION:	
M1108_1	C1001	D	



BACK EILDON ROAD - LAYOUT PLAN
SCALE 1:50



EARTHWORKS:

- NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE CROSS SECTIONS, THE ACTUAL LIMITS SHALL BE DETERMINED ON-SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
- ALL EARTHWORKS OPERATIONS SHALL BE CARRIED OUT WITH 'LEVEL 2' SOIL ENGINEERING SUPERVISION IN ACCORDANCE WITH APPENDIX B OF AS 3798-2007. THE NOMINATED GEOTECHNICAL TESTING AUTHORITY SHALL PROVIDE CERTIFICATION THAT ALL GENERAL EARTHWORKS OPERATIONS HAVE BEEN CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THE CONTROLLED FILL IS SUITABLE.
- FINISHED SURFACES TO ALL DISTURBED AREAS ARE TO BE GRASS SEEDDED U.N.O. 75% GRASS ESTABLISHMENT PRIOR TO PRACTICAL COMPLETION.
- ALL NEW WORKS TO MATCH NEATLY INTO EXISTING.
- ALL EARTHWORKS TO BE CARRIED OUT AT +2% OF OPTIMUM MOISTURE CONTENT.
- EARTHWORKS LEVELS SHOWN ARE FINISHED SURFACE LEVELS INCLUSIVE OF TOPSOIL LAYER WHERE REQUIRED.
- CLEAR ONLY THE SITE AREAS TO BE OCCUPIED OR AFFECTED BY THE WORKS AND ANY OTHER AREAS THAT THE CONTRACT SPECIFICALLY REQUIRES TO BE CLEARED.
- IF NOT INCLUDED WITHIN THE AREAS SPECIFIED ABOVE, CLEAR GENERALLY ONLY TO THE EXTENT NECESSARY FOR THE PERFORMANCE OF THE WORKS.
- REMOVE TOPSOIL TO A DEPTH OF 100 MM FROM SITE AREAS TO BE OCCUPIED OR AFFECTED BY WORKS SUCH AS STRUCTURES, PAVING, EXCAVATIONS, EMBANKMENTS AND REGRADING AND ANY OTHER AREAS THE CONTRACT REQUIRES. IF TOPSOIL EXTENDS TO A DEPTH GREATER THAN 100 MM, OBTAIN DIRECTION.
- WHEREVER PRACTICAL, TRANSFER TOPSOIL DIRECTLY FOR USE AS PLANTING MEDIA. WHERE STOCKPILING OF TOPSOIL IS REQUIRED, ESTABLISH STOCKPILES IN APPROVED LOCATIONS, TO HEIGHTS NOT EXCEEDING 1.5 M. PROVIDE ADEQUATE DRAINAGE AND EROSION PROTECTION. DO NOT BURN OFF TO REMOVE PLANT GROWTH THAT MAY OCCUR DURING STORAGE. DO NOT ALLOW TRAFFIC ON STOCKPILES. IF A STOCKPILE OF TOPSOIL IS TO REMAIN FOR MORE THAN TWO WEEKS, SOW WITH TEMPORARY GRASS.

- CONTRACTOR TO LIAISE WITH SYDNEY WATER TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
- THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCING THE DEMOLITION OF ANY EXISTING STRUCTURES WITHIN THE SITE AREA.
- ALL DRAINAGE STRUCTURES TO BE PRESERVED FROM THE EFFECTS OF STRUCTURAL LOADING GENERATED BY THE EARTHWORKS.
- COMPACT FILL AREAS AND SUBGRADE TO, NOT LESS THAN, THE STANDARD MINIMUM DRY DENSITY (AS 1289)
- ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REGULATIONS

EROSION AND SEDIMENT CONTROL:

- THE EROSION AND SEDIMENT CONTROL WILL COMPLY WITH:
 - IECA BEST PRACTICE EROSION AND SEDIMENT CONTROL (BPESC)
- EXISTING VEGETATED AREAS CLEAR OF EARTHWORKS TO BE MAINTAINED DURING CONSTRUCTION.
- ADDITIONAL CONTROL DEVICES SHALL BE PLACED, WHERE DIRECTED BY THE SUPERINTENDENT. ALTERNATIVE DESIGNS TO BE APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION.

PRIOR TO CONSTRUCTION

- SITE SPECIFIC EROSION CONTROL STRATEGY TO BE CONFIRMED WITH COUNCIL AND SUPERINTENDENT AT PRE-START MEETING.
- INSTALL TEMPORARY DRAINAGE CONTROL TO DIVERT CLEAN WATER AROUND WORK SITE PRIOR TO CONSTRUCTION.
- ALL DRAINAGE, EROSION AND SEDIMENT CONTROL TO BE INSTALLED AND BE OPERATIONAL BEFORE COMMENCING UP-SLOPE EARTHWORKS.

DURING CONSTRUCTION

- TEMPORARY AND PERMANENT SEDIMENT MANAGEMENT/EROSION CONTROL DEVICES SHALL BE MAINTAINED AT A SUITABLE/CONDITION THROUGHOUT THE CLEARING AND EARTHWORKS OPERATIONS TO THE SATISFACTION OF THE SUPERINTENDENT.
- TOPSOIL AND SUBSOIL SHOULD BE STOCKPILES SEPARATELY

- MONITORING OF EROSION CONTROL DEVICES AND THE SEDIMENT BASINS SHALL BE EXECUTED IN ACCORDANCE WITH THE REQUIREMENTS OF IECA BEST PRACTICE EROSION AND SEDIMENT CONTROL (BPESC).
- ALL EROSION, SEDIMENT CONTROL DEVICES ARE TO BE INSPECTED AT LEAST WEEKLY, PRIOR TO EXPECTED RAINFALL AND AFTER RAINFALL. ANY DAMAGE OR EXCESS EROSION/SEDIMENT IS TO BE REPAIRED/MANAGED AS REQUIRED TO MAINTAIN CONTROL DEVICES.
- AREAS WHICH WILL REMAIN DISTURBED FOR A PERIOD GREATER THEN 14 DAYS DURING CONSTRUCTION SHOULD BE SEEDDED.

ON COMPLETION OF WORKS

- TOPSOILING, GRASS SEEDING AND PLACING OF TURF STRIPS, SHALL BE CARRIED OUT BY THE CONTRACTOR IMMEDIATELY FOLLOWING FINAL TRIMMING OF WETLAND BATTERS.
- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.

CONSTRUCTION HOLD POINTS:

- THE CONTRACTOR SHALL SEEK APPROVAL FROM THE SUPERINTENDENT AT THE FOLLOWING MILESTONES BEFORE PROCEEDING TO THE NEXT STAGE AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE GUIDELINES:
 - PRE-START MEETING
 - REMOVAL OF EXISTING INFRASTRUCTURE FOR FUTURE REINSTATEMENT, AND BULK EARTHWORKS TRIMMED TO SUBGRADE LEVELS
 - SETOUT OF HYDRAULIC TREEPITS

CONSTRUCTION TOLERANCE:

- GENERAL EARTHWORKS + - 50mm
- HYDRAULIC STRUCTURES + - 25mm

SURVEY:

WHILE ALL CARE HAS BEEN TAKEN TO CONFIRM THE ACCURACY OF THIS DESIGN, ALL LEVELS AND SETOUT HAVE BEEN BASED ON AERIAL SURVEY. ANY DISCREPANCIES FOUND ON SITE WITH LEVELS OR SETOUT SHOULD THEREFORE BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT FOR RESOLUTION.

Notes:

LEGEND

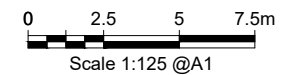
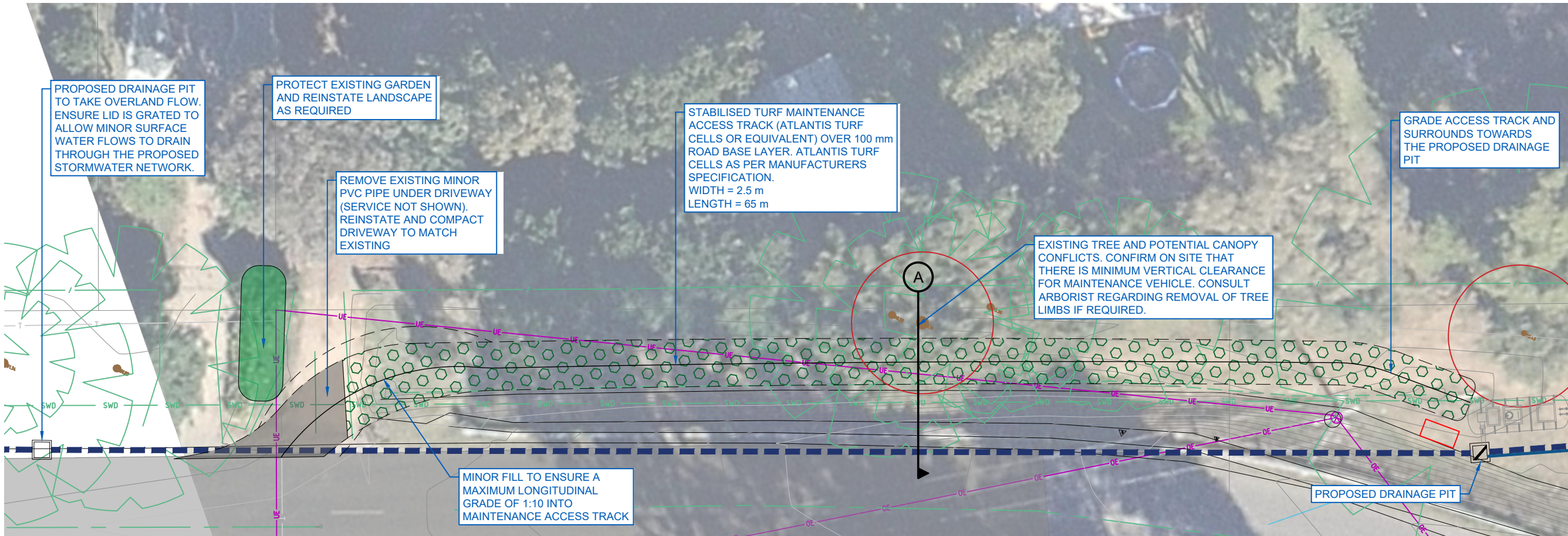
- PROPOSED SUBSURFACE FLOW WETLAND AREA ~ 122.6 m²
- PROPOSED SWALE TO PICK UP LOCAL RUNOFF LENGTH ~ 27 m
- APPROXIMATE TREE PROTECTION ZONE. 8 m DIAMETER AROUND EXISTING TREE
- PROPOSED STORMWATER DRAINAGE PIPE
- WETLAND OUTFLOW LINE
- WETLAND INFLOW LINE
- DIVERSION PIPE
- DIVERSION WEIR
- EXISTING OVERHEAD ELECTRICITY
- EXISTING WATER MAIN
- EXISTING BELOW GROUND TELECOMMUNICATION
- EXISTING STORMWATER DRAIN

DESIGN COMMENTS

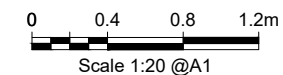
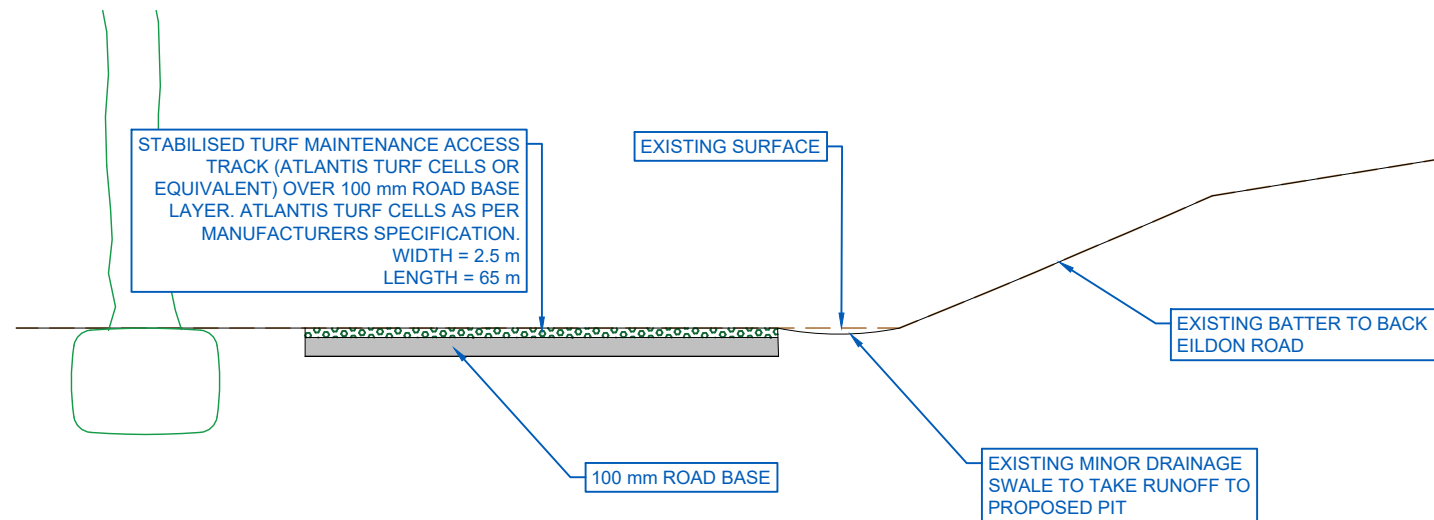
TREATABLE CATCHMENT FLOWS ARE DIVERTED BY A PROPOSED WEIR INTO A GPT. THE GPT IS FITTED WITH A CHAMBER FOR POLLUTANT AND TSS TREATMENT AND A SECOND CHAMBER FOR STORAGE.



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REV:	DESCRIPTION:	BY:	DATE:
STATUS:			
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CLIENT: MURRINDINDI SHIRE COUNCIL			
ARCHITECT:			
SITE: BACK EILDON ROAD			
TITLE: SUBSURFACE FLOW WETLAND LAYOUT PLAN			
SCALE AT A1:	DATE:	DRAWN:	CHECKED:
50	23/09/21	SA	GW
PROJECT NO:	DRAWING NO:	REVISION:	
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










BACK EILDON ROAD - MAINTENANCE ACCESS TRACK
SCALE 1:125



BACK EILDON ROAD - MAINTENANCE ACCESS TRACK CROSS SECTION
SCALE 1:20

Notes:

LEGEND

-  STABILISED TURF MAINTENANCE ACCESS TRACK (ATLANTIS TURF CELL OR EQUIVALENT)
-  APPROXIMATE TREE PROTECTION ZONE. 8 m DIAMETER AROUND EXISTING TREE
-  PROPOSED STORMWATER DRAINAGE PIPE
-  WETLAND OUTFLOW LINE
-  WETLAND INFLOW LINE
-  DIVERSION PIPE
-  DIVERSION WEIR
-  EXISTING OVERHEAD ELECTRICITY
-  EXISTING WATER MAIN
-  EXISTING BELOW GROUND TELECOMMUNICATION
-  EXISTING STORMWATER DRAIN

DESIGN COMMENTS

TREATABLE CATCHMENT FLOWS ARE DIVERTED BY A PROPOSED WEIR INTO A GPT. THE GPT IS FITTED WITH A CHAMBER FOR POLLUTANT AND TSS TREATMENT AND A SECOND CHAMBER FOR STORAGE.



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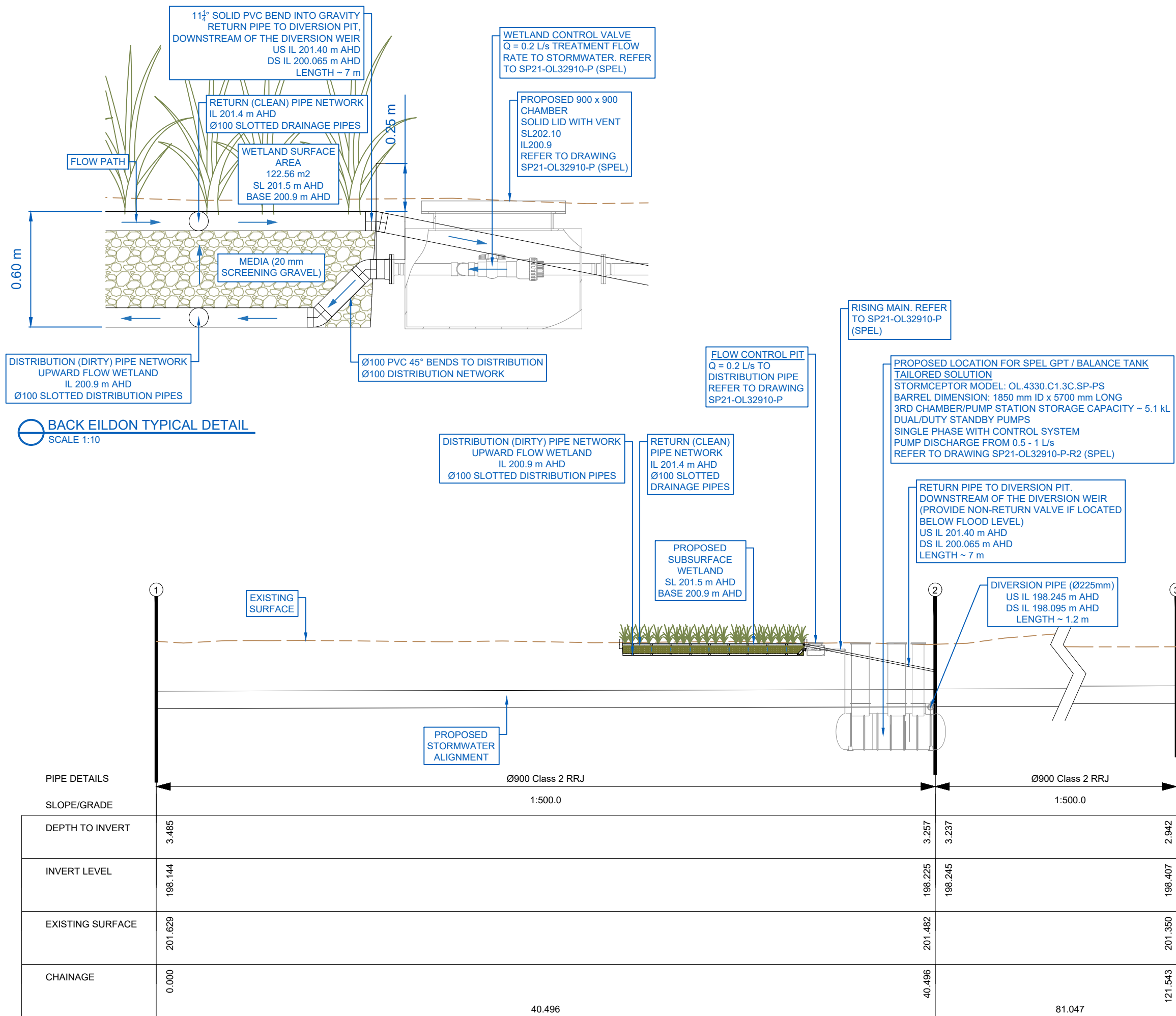
CLIENT: MURRINDINDI SHIRE COUNCIL

ARCHITECT:

SITE: BACK EILDON ROAD

TITLE: SUBSURFACE FLOW WETLAND MAINTENANCE ACCESS

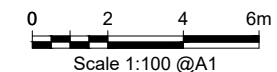
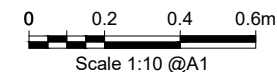
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PROJECT NO: M1108_1	DRAWING NO: C1003	REVISION: D	



BACK EILDON TYPICAL DETAIL
SCALE 1:10

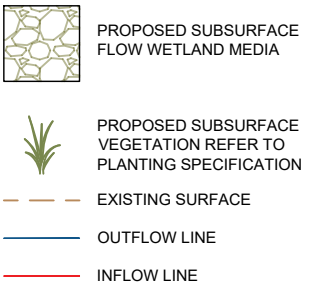
BACK EILDON TYPICAL LS
SCALE 1:100

THORNTON STORMWATER UPGRADE - STAGE 1
BACK EILDON ROAD SUB-SURFACE FLOW WETLAND



Notes:

LEGEND



DESIGN COMMENTS

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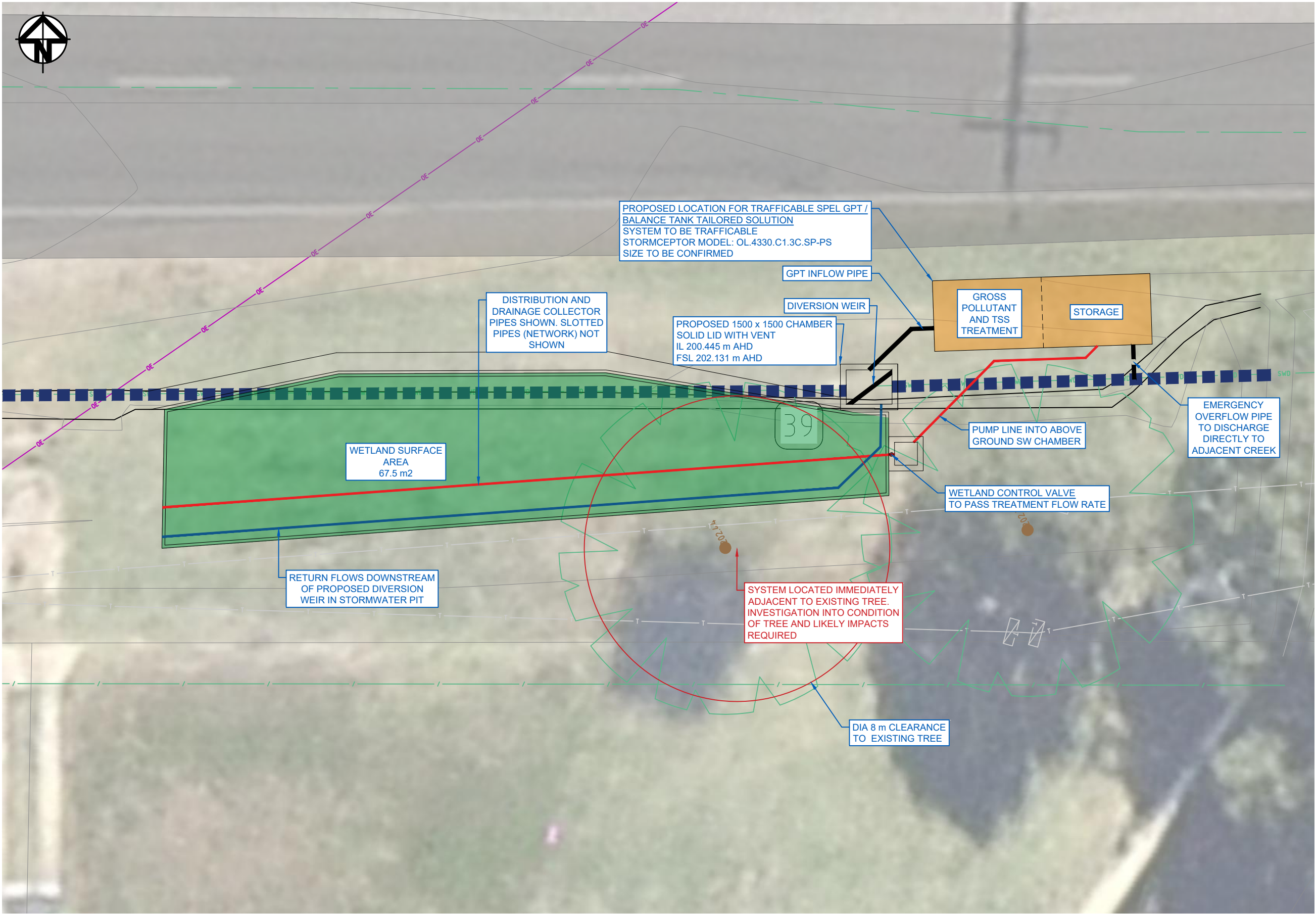
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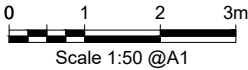
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TITLE:
SUBSURFACE FLOW WETLAND
CS AND DETAILS

SCALE AT A1: NTS	DATE: 23/09/21	DRAWN: SA	CHECKED: GW
PROJECT NO: M1108_1	DRAWING NO: C1004	REVISION:	D



TAGGERTY-THORNTON ROAD - LAYOUT PLAN
SCALE 1:50



Notes:

LEGEND

- PROPOSED SUBSURFACE FLOW WETLAND AREA ~ 67.5 m²
- GPT (POLLUTANTS AND SEDIMENT REMOVAL) AND STORAGE FOR TREATABLE FLOWS.
- APPROXIMATE TREE PROTECTION ZONE. 8 m DIAMETER AROUND EXISTING TREE
- PROPOSED STORMWATER DRAINAGE PIPE
- WETLAND OUTFLOW LINE
- WETLAND INFLOW LINE
- DIVERSION PIPE
- DIVERSION WEIR
- EXISTING OVERHEAD ELECTRICITY
- EXISTING WATER MAIN
- EXISTING BELOW GROUND TELECOMMUNICATION
- EXISTING STORMWATER DRAIN

DESIGN COMMENTS

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CLIENT:	MURRINDINDI SHIRE COUNCIL						
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SITE:	TAGGERTY-THORNTON ROAD						
TITLE:	SUBSURFACE FLOW WETLAND LAYOUT PLAN						
SCALE AT A1:	50	DATE:	23/09/21	DRAWN:	SA	CHECKED:	GW
PROJECT NO:	M1108_1	DRAWING NO:	C3002	REVISION:		D	