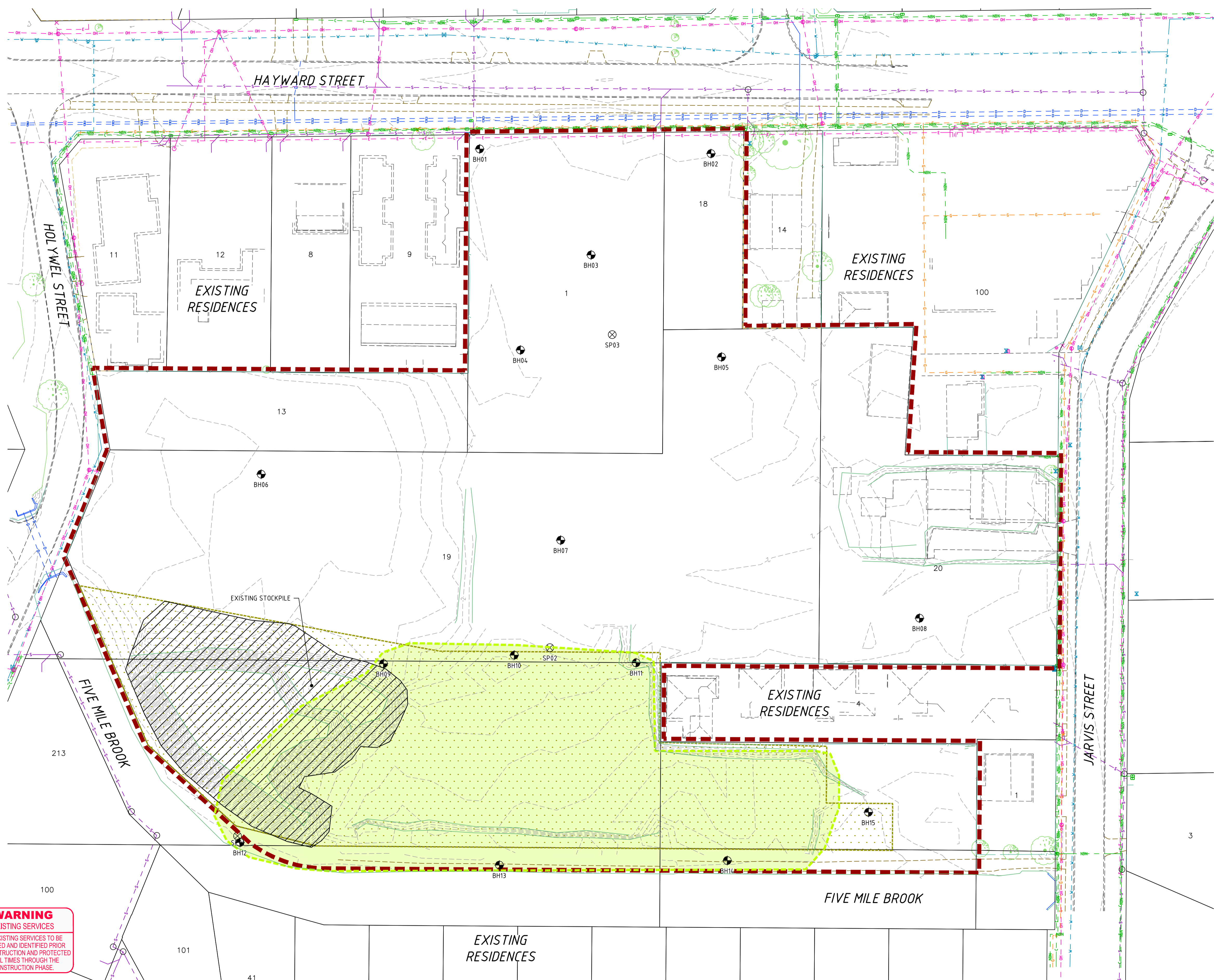


Appendix 9: Earthworks, Retaining Walls and Drainage Design



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.
2. ORIGINAL FEATURE SURVEY PROVIDED BY HARLEY DYKSTRA PLANNING & SURVEY SOLUTIONS. FEATURE AND CONTOUR SURVEY DRAWING NO. 21112-01F
3. REFER TO OPIFEX GEOTECHNICAL SITE INVESTIGATION REPORT NO. OG-24-054-001 Rev0 FOR GROUNDWATER CONDITIONS.
4. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS ON SITE.

LEGEND

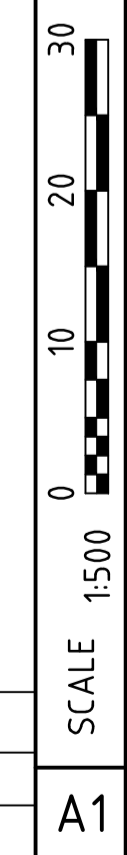
- EXTENT OF WORKS
- EXISTING SURFACE CONTOUR (0.1m)
- EXISTING WALLS
- EXISTING KERBING
- EXISTING PATH
- EXISTING DRAINAGE
- EXISTING SEWER
- EXISTING WATER
- EXISTING GAS MAIN
- EXISTING COMMUNICATIONS
- EXISTING OPTIC FIBRE
- EXISTING POWER
- EXISTING OVERHEAD POWER
- EXISTING POWER POLE
- EXISTING TREE TO REMAIN
- GROUNDWATER MONITORING POINT
- GEOTECH BOREHOLE LOCATION (OPIFEX)
- EXISTING STOCKPILE
- SWAMP AREA (APPROXIMATE)
- ACID SULPHATE SOILS MANAGEMENT ZONE (ACID SULPHATE SOILS TO REMAIN IN SITU)

WARNING
EXISTING SERVICES

ALL EXISTING SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO CONSTRUCTION AND PROTECTED AT ALL TIMES THROUGH THE CONSTRUCTION PHASE.



PLAN
SCALE 1:500



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PLANNING		
ENGINEERING		

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B	22.04.24	DWP	BMS	PRELIMINARY ISSUE					
A	08.01.24	DWP	BMS	ISSUED FOR APPROVAL					

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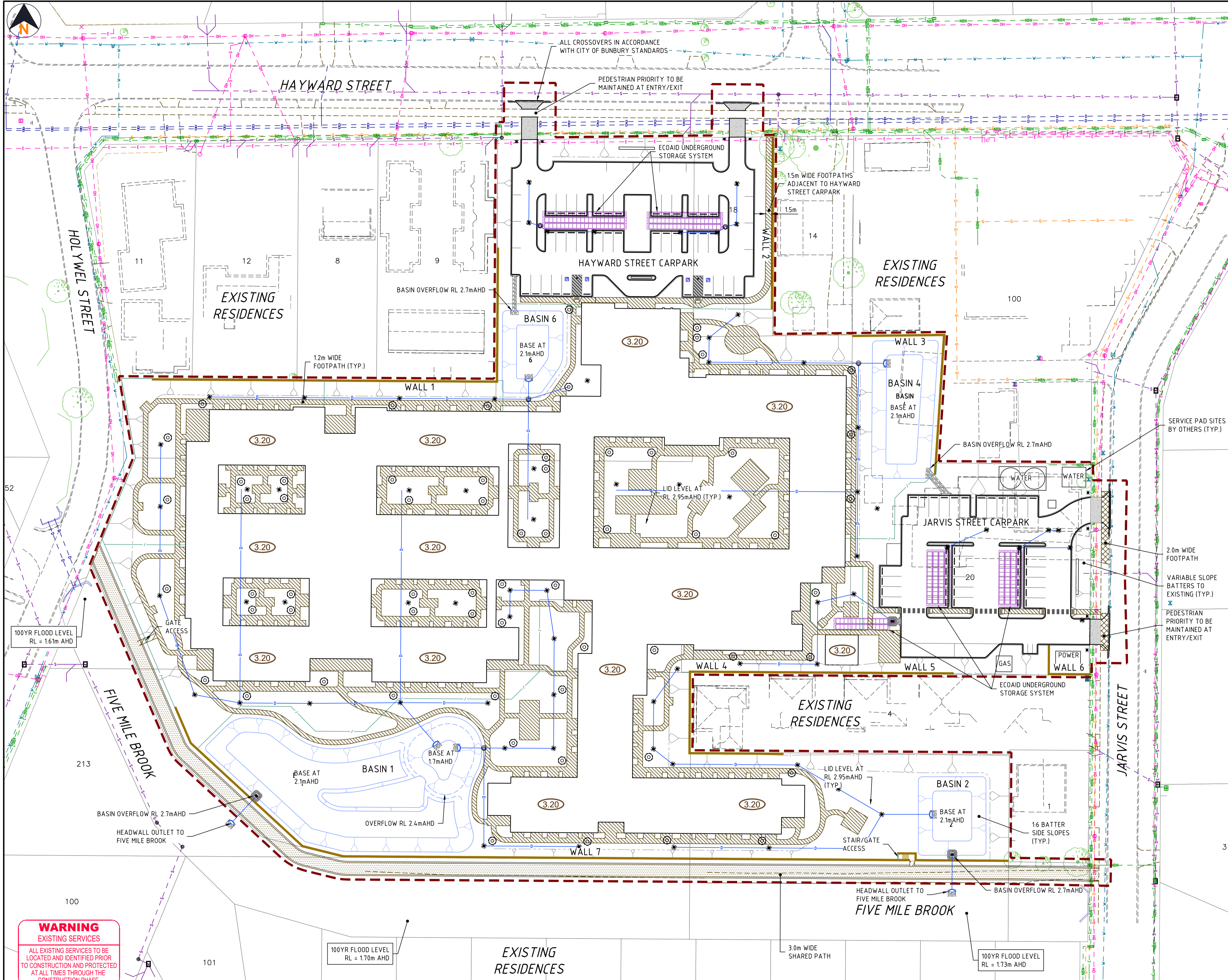
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APPROVED	B.M. SMITH	
DATE	26.09.24	

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PROJECT	SOUTH BUNBURY AGED CARE - STAGE 1	
TITLE	EXISTING CONDITIONS PLAN	
DRAWING NUMBER	2511-01-001	ISSUE C



LEGEND

- EXTENT OF WORKS
- PROPOSED BUILDING (ARCHITECTURAL DRG. REF: DA25 REV 3)
- PROPOSED KERBING
- EXISTING KERBING
- PROPOSED DRAINAGE
- EXISTING DRAINAGE
- PROPOSED ECO AID CHAMBERS
- PROPOSED KERB OPENING
- PROPOSED DRAINAGE BASIN
- EXISTING SEWER
- EXISTING SEWER PRESSURE MAIN
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- EXISTING OPTIC FIBRE
- EXISTING COMMUNICATIONS
- EXISTING UNDERGROUND HIGH VOLTAGE POWER
- EXISTING UNDERGROUND LOW VOLTAGE POWER
- EXISTING OVERHEAD HIGH VOLTAGE POWER
- PROPOSED RETICULATION DUCT
- PROPOSED INTERNAL FOOTPATH (1.2m U.N.O.)
- PROPOSED EXTERNAL FOOTPATH (2.0m)
- PROPOSED SHARED FOOTPATH (3.0m)
- PROPOSED CONCRETE CROSSOVER

WARNING
EXISTING SERVICES
ALL EXISTING SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO CONSTRUCTION AND PROTECTED AT ALL TIMES THROUGH THE CONSTRUCTION PHASE.



PLAN
SCALE 1:500

SCALE 1:500
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CROFT APPROVAL	BY	DATE
PLANNING		
ENGINEERING		

No.	DATE	DRAWN	APPROVED	AMENDMENT
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A	18.09.24	DWP	JBS	ISSUED FOR APPROVAL

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DRAWN	DWP	CHECKED	BMS	DATE	26.09.24

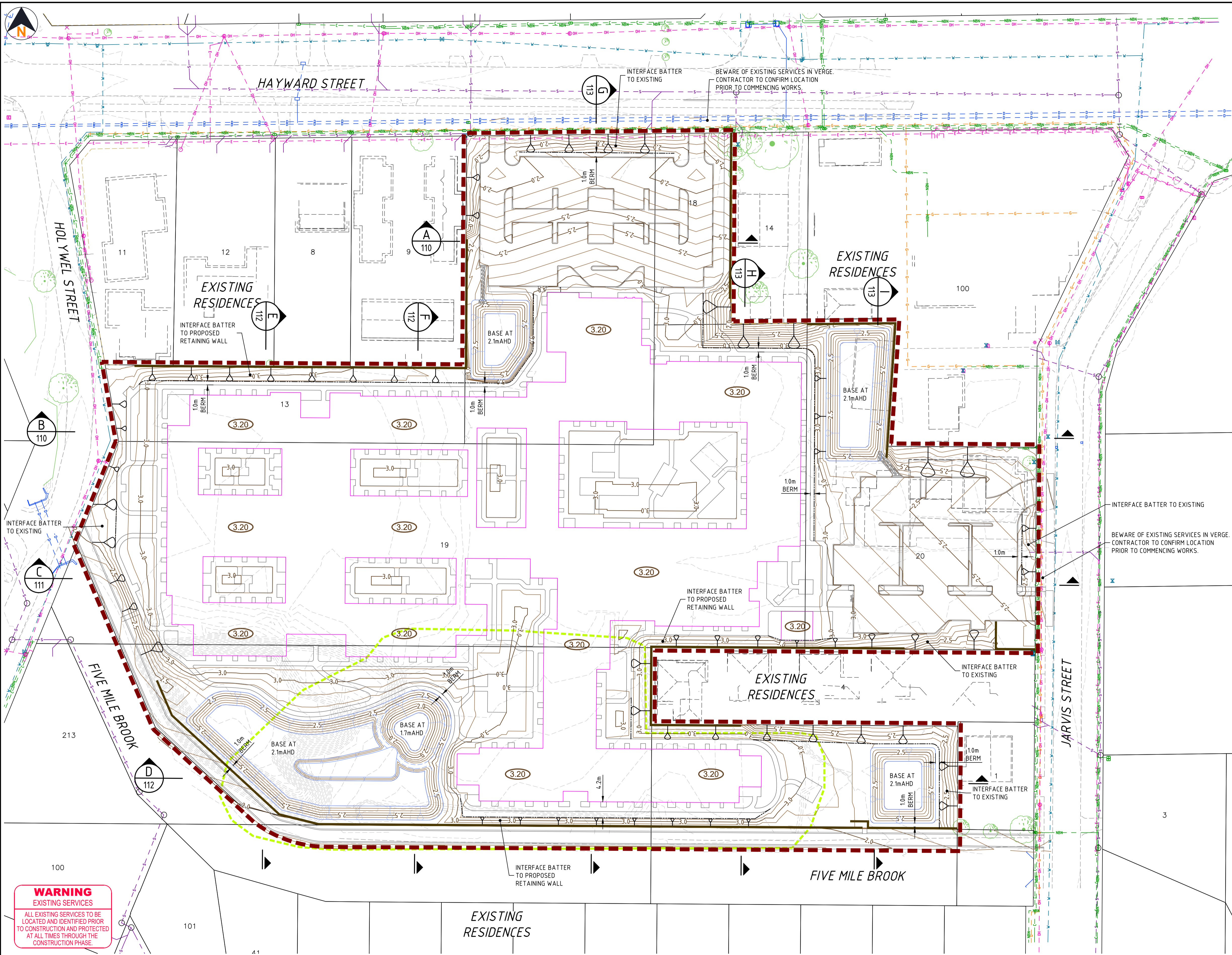
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PROJECT	SOUTH BUNBURY AGED CARE - STAGE 1	
TITLE	GENERAL ARRANGEMENT PLAN	
DRAWING NUMBER	2511-01-030	ISSUE
		B

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 101



- ### NOTES
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 - ORIGINAL SURVEY CONTOURS PROVIDED BY HARLEY DYKSTRA PLANNING AND SURVEY SOLUTIONS.
 - ALL FINISHED LEVELS ARE IN METRES TO AHD.
 - HORIZONTAL DATUM IS PCG94.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS ON SITE.
 - PRIOR TO CUTTING OR FILLING, THE SITE AREAS SHALL BE CLEARED AND TOPSOIL MANAGED IN ACCORDANCE WITH THE FOLLOWING:
 - EXTENT OF CLEARING TO BE LIMITED TO THE BOUNDARY UNLESS AGREED WITH THE SUPERINTENDENT.
 - VEGETATION WHERE NOTED FOR PROTECTION SHALL BE FENCED PRIOR TO CLEARING SURROUNDING AREA. THE CONTRACTOR TO PROTECT THE "VEGETATION PROTECTION AREAS" FROM ANY DAMAGE.
 - PROPOSED CLEARING AREAS TO BE FLAGGED TO ENABLE FAUNA SURVEY TO BE UNDERTAKEN AHEAD OF CLEARING WORKS COMMENCING.
 - ALL UNSUITABLE MATERIAL TO BE REMOVED BY THE CONTRACTOR TO APPROVED TIPPING SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL FEES TO BE PAID BY THE CONTRACTOR.
 - ALL CLEARED MATERIAL TO BE MULCHED AND STOCKPILED ON SITE AS DIRECTED BY THE SUPERINTENDENT.
 - TOPSOIL TO BE DIRECT BLENDED WITH CLEAN SAND FILL AS DIRECTED BY THE SUPERINTENDENT.
 - CLEARING OF VEGETATION SHALL NOT COMMENCE UNTIL THE SUPERINTENDENT HAS INSPECTED THE FLAGGED WORKS BOUNDARY AND FAUNA SURVEY HAS BEEN COMPLETED.
 - PLACING OF FILL SHALL NOT COMMENCE UNTIL THE SUPERINTENDENT HAS INSPECTED THE WORKS.
 - IN-SITU ROCK TO BE OVER EXCAVATED 600mm BELOW THE FINISHED SURFACE LEVEL. EXCAVATED ROCK CAN BE PLACED IN AREAS OF DEEP FILL TO WITHIN 600mm OF THE FINISHED SURFACE LEVEL. EXCESS ROCK TO BE STOCKPILED ON SITE AS DIRECTED BY THE SUPERINTENDENT.
 - ALL LEVELS SHOWN ARE FINISHED LEVELS AFTER FINAL WORKS. ALL ROADS SHALL BE BOXED AS SHOWN ON THE TYPICAL BOXOUT SECTION.
 - EARTHWORKS SHALL INTERFACE TO SURROUNDING EXISTING GROUND LEVELS WITH 1:3 BATTERS UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO FACILITATE INDEPENDENT CERTIFICATION BY PRINCIPALS GEOTECHNICAL ENGINEER THAT EARTHWORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND THE SPECIFICATION.
 - ALL EARTHWORKED AREAS ARE TO BE STABILISED USING HYDROMULCH.
 - THE CONTRACTOR SHALL PROVIDE THE SUPERINTENDENT AN AS-COINTEGRATED SURVEY OF FINISHED DEVELOPMENT LEVELS WITHIN THE EXTENT OF WORKS BOUNDARY. THE LEVELS SHOULD ACCURATELY DEFINE BATTERS, CHANGES IN GRADE AND RETAINING WALLS. THE AS-COINTEGRATED SURVEY SHALL BE SUPPLIED IN DIGITAL FORMAT (CAD AND PDF).

- ### LEGEND
- EXTENT OF EARTHWORKS
 - PROPOSED BUILDING (ARCHITECTURAL DRG. REF: DA25 REV 3)
 - EXISTING SURFACE CONTOUR (0.1m)
 - PROPOSED MAJOR SURFACE CONTOUR (0.5m)
 - PROPOSED MINOR SURFACE CONTOUR (0.1m)
 - PROPOSED FINISHED FLOOR LEVEL
 - PROPOSED RETAINING WALLS
 - PROPOSED INTERFACE BATTER
 - EXISTING WALLS
 - EXISTING DRAINAGE
 - EXISTING SEWER
 - EXISTING WATER
 - EXISTING GAS MAIN
 - EXISTING COMMUNICATIONS
 - EXISTING OPTIC FIBRE
 - EXISTING POWER
 - EXISTING OVERHEAD POWER
 - EXISTING POWER POLE
 - EXISTING TREE TO REMAIN
 - SWAMP AREA (APPROXIMATE)

WARNING
EXISTING SERVICES
ALL EXISTING SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO CONSTRUCTION AND PROTECTED AT ALL TIMES THROUGH THE CONSTRUCTION PHASE.



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SCALE 1:500
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C	22.04.24	DWP	BMS	PRELIMINARY ISSUE					
B	08.01.24	DWP	BMS	ISSUED FOR APPROVAL					
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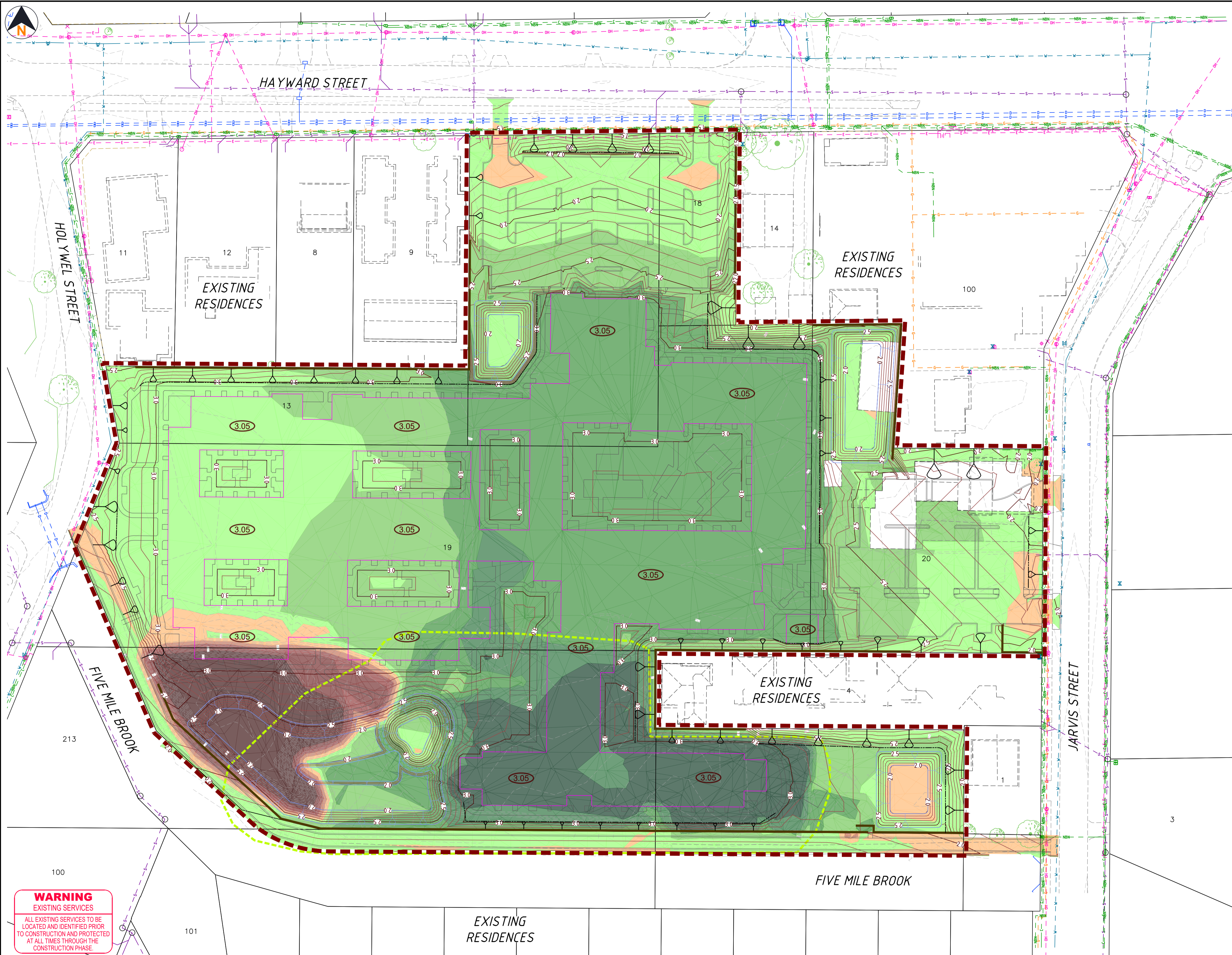
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PROJECT	SOUTH BUNBURY AGED CARE - STAGE 1		
TITLE	FINISHED SURFACE EARTHWORKS PLAN		
DRAWING NUMBER	2511-01-100	ISSUE	D



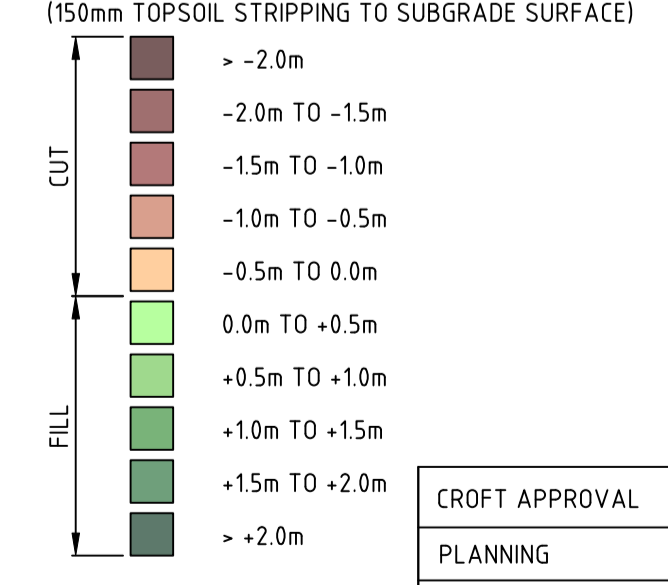
NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.
2. ORIGINAL SURVEY CONTOURS PROVIDED BY HARLEY DYKSTRA PLANNING AND SURVEY SOLUTIONS.
 - 2.1. ALL FINISHED LEVELS ARE IN METRES TO AHD.
 - 2.2. HORIZONTAL DATUM IS PC694.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS ON SITE.
5. PRIOR TO CUTTING OR FILLING, THE SITE AREAS SHALL BE CLEARED AND TOPSOIL MANAGED IN ACCORDANCE WITH THE FOLLOWING:
 - 5.1. EXTENT OF CLEARING TO BE LIMITED TO THE BOUNDARY UNLESS AGREED WITH THE SUPERINTENDENT.
 - 5.2. VEGETATION WHERE NOTED FOR PROTECTION SHALL BE FENCED PRIOR TO CLEARING SURROUNDING AREA. THE CONTRACTOR TO PROTECT THE "VEGETATION PROTECTION AREAS" FROM ANY DAMAGE.
 - 5.3. PROPOSED CLEARING AREAS TO BE FLAGGED TO ENABLE FAUNA SURVEY TO BE UNDERTAKEN AHEAD OF CLEARING WORKS COMMENCING.
 - 5.4. ALL UNSUITABLE MATERIAL TO BE REMOVED BY THE CONTRACTOR TO APPROVED TIPPING SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL FEES TO BE PAID BY THE CONTRACTOR.
 - 5.5. ALL CLEARED MATERIAL TO BE MULCHED AND STOCKPILED ON SITE AS DIRECTED BY THE SUPERINTENDENT.
 - 5.6. TOPSOIL TO BE DIRECT BLENDED WITH CLEAN SAND FILL AS DIRECTED BY THE SUPERINTENDENT.
6. CLEARING OF VEGETATION SHALL NOT COMMENCE UNTIL THE SUPERINTENDENT HAS INSPECTED THE FLAGGED WORKS BOUNDARY AND FAUNA SURVEY HAS BEEN COMPLETED.
7. PLACING OF FILL SHALL NOT COMMENCE UNTIL THE SUPERINTENDENT HAS INSPECTED THE WORKS.
8. IN-SITU ROCK TO BE OVER EXCAVATED 600mm BELOW THE FINISHED SURFACE LEVEL. EXCAVATED ROCK CAN BE PLACED IN AREAS OF DEEP FILL TO WITHIN 600mm OF THE FINISHED SURFACE LEVEL. EXCESS ROCK TO BE STOCKPILED ON SITE AS DIRECTED BY THE SUPERINTENDENT.
9. ALL LEVELS SHOWN ARE SUBGRADE LEVELS PRIOR TO FINAL WORKS. ALL ROADS SHALL BE BOXED AS SHOWN ON THE TYPICAL BOXOUT SECTION.
10. EARTHWORKS SHALL INTERFACE TO SURROUNDING EXISTING GROUND LEVELS WITH 1:3 BATTERS UNLESS NOTED OTHERWISE.
11. CONTRACTOR TO FACILITATE INDEPENDENT CERTIFICATION BY PRINCIPALS GEOTECHNICAL ENGINEER THAT EARTHWORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND THE SPECIFICATION.
12. ALL EARTHWORKED AREAS ARE TO BE STABILISED USING HYDROMULCH.
13. THE CONTRACTOR SHALL PROVIDE THE SUPERINTENDENT AN AS-CONSTRUCTED SURVEY OF FINISHED DEVELOPMENT LEVELS WITHIN THE EXTENT OF WORKS BOUNDARY. THE LEVELS SHOULD ACCURATELY DEFINE BATTERS, CHANGES IN GRADE AND RETAINING WALLS. THE AS-CONSTRUCTED SURVEY SHALL BE SUPPLIED IN DIGITAL FORMAT (CAD AND PDF).

LEGEND

- EXTENT OF EARTHWORKS
- PROPOSED BUILDING (ARCHITECTURAL DRG. REF: DA25 REV 3)
- EXISTING SURFACE CONTOUR (0.1m)
- PROPOSED MAJOR SUBGRADE CONTOUR (0.5m)
- PROPOSED MINOR SUBGRADE CONTOUR (0.1m)
- PROPOSED SUBGRADE SURFACE LEVEL
- PROPOSED RETAINING WALLS
- PROPOSED INTERFACE BATTER
- EXISTING WALLS
- EXISTING DRAINAGE
- EXISTING SEWER
- EXISTING WATER
- EXISTING GAS MAIN
- EXISTING COMMUNICATIONS
- EXISTING OPTIC FIBRE
- EXISTING POWER
- EXISTING OVERHEAD POWER
- EXISTING POWER POLE
- EXISTING TREE TO REMAIN
- SWAMP AREA (APPROXIMATE)

DEPTH BANDS



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ENGINEERING		

WARNING
EXISTING SERVICES
ALL EXISTING SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO CONSTRUCTION AND PROTECTED AT ALL TIMES THROUGH THE CONSTRUCTION PHASE.



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SCALE 1:500
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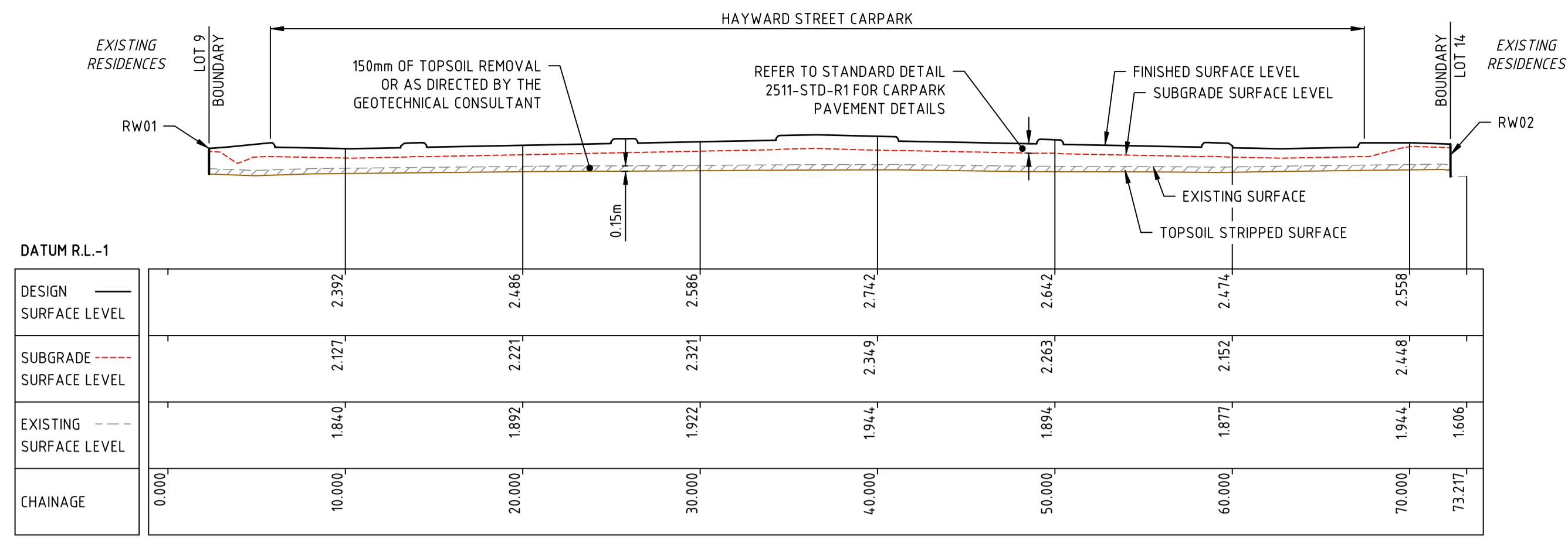
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DATE	26.09.24	

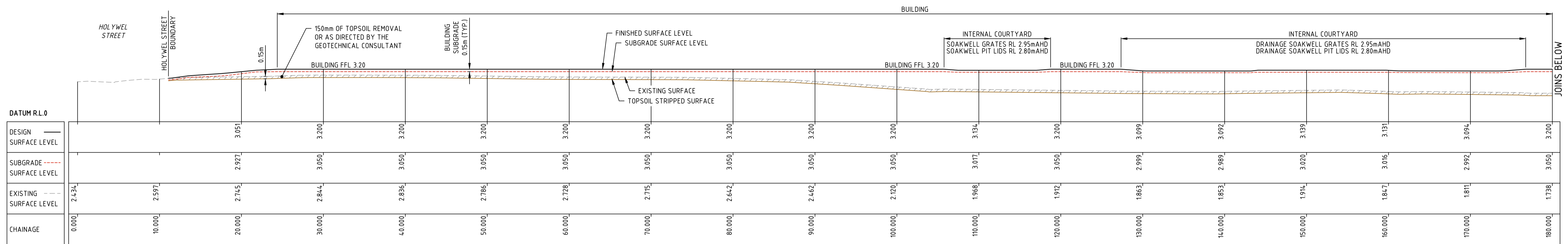
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PROJECT	SOUTH BUNBURY AGED CARE - STAGE 1	
TITLE	SUBGRADE SURFACE EARTHWORKS PLAN	
DRAWING NUMBER	2511-01-101	ISSUE C

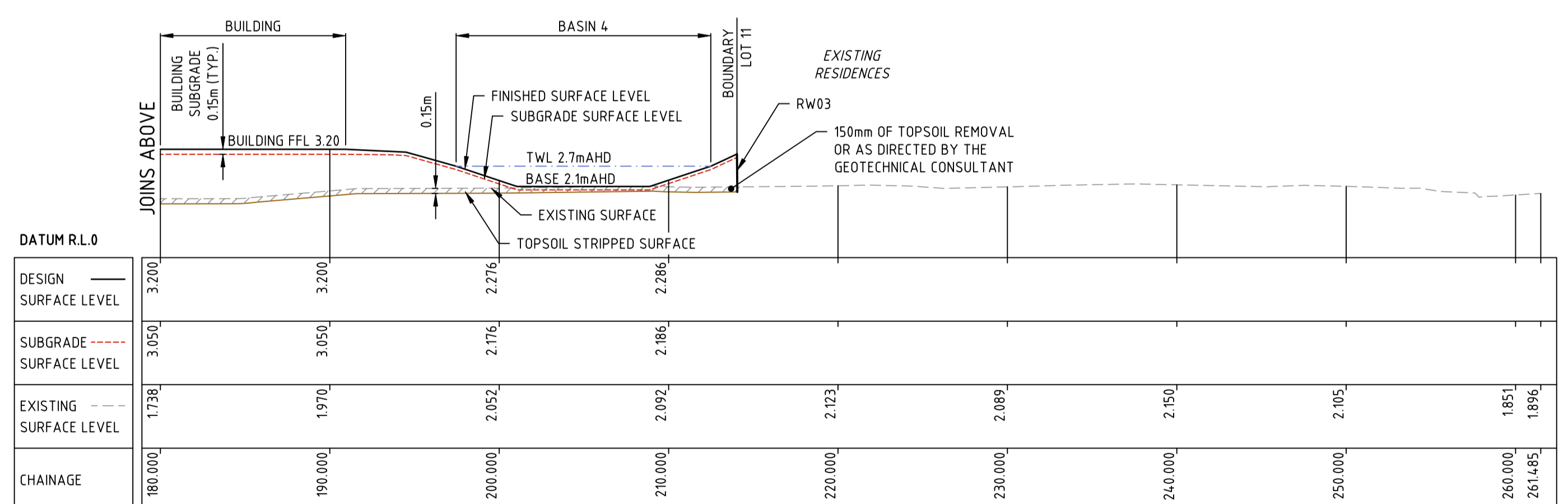
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SECTION A
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SECTION B
H 1:250 V 1:125



SECTION B
H 1:250 V 1:125

WARNING
EXISTING SERVICES
ALL EXISTING SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO CONSTRUCTION AND PROTECTED AT ALL TIMES THROUGH THE CONSTRUCTION PHASE.



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PLANNING		
ENGINEERING		

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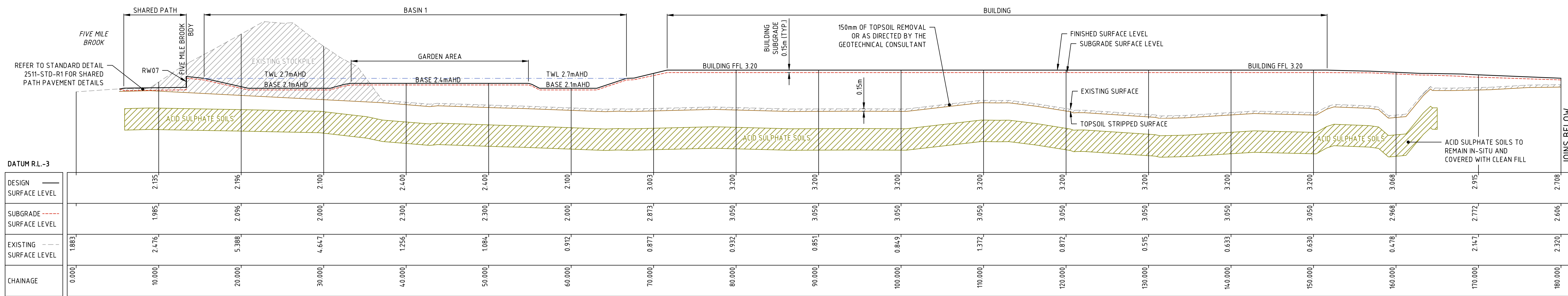
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DRAWN	DWP	CHECKED	BMS	DATE	26.09.24

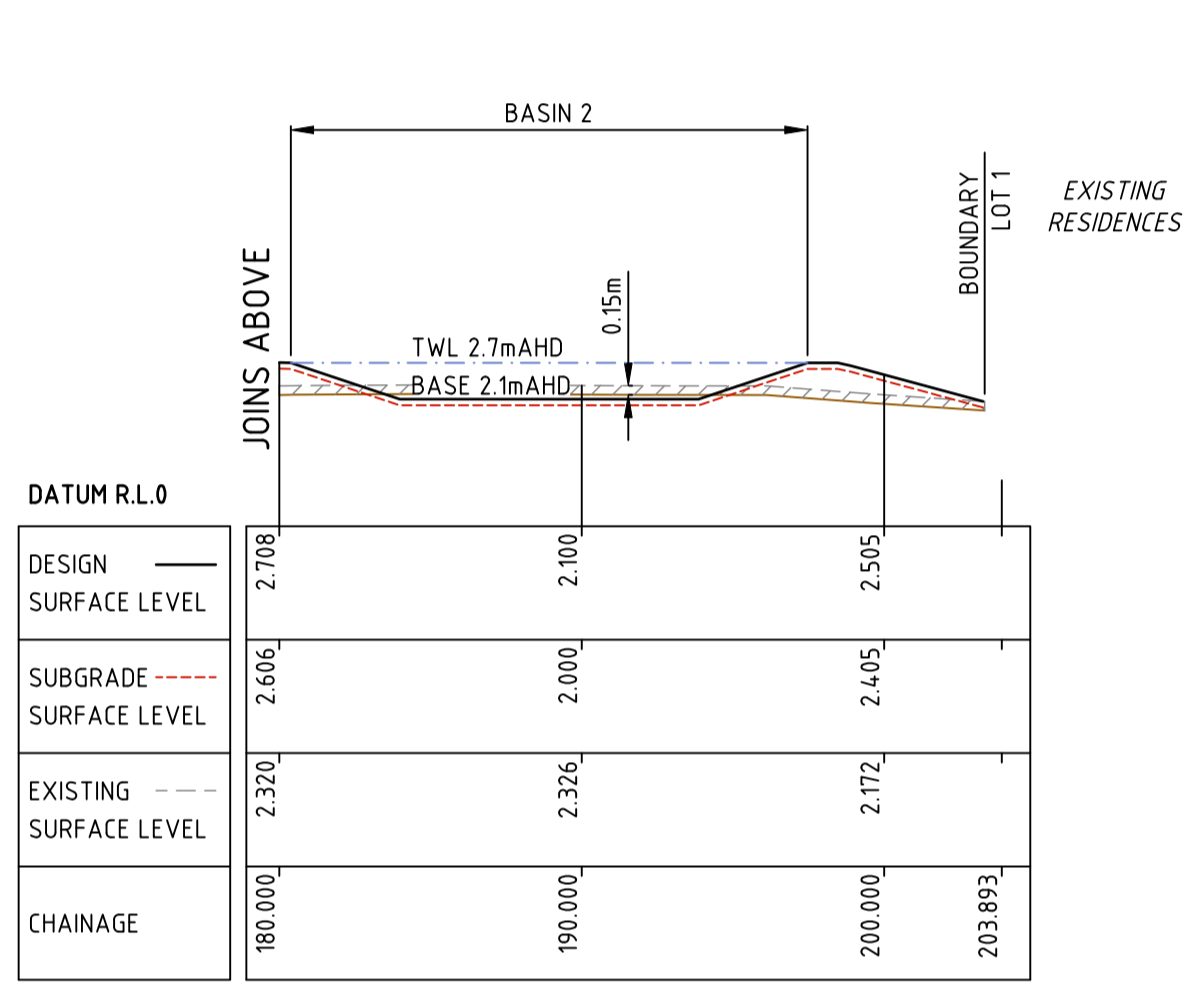


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TITLE	EARTHWORKS CROSS SECTIONS SHEET 1	
DRAWING NUMBER	2511-01-110	ISSUE
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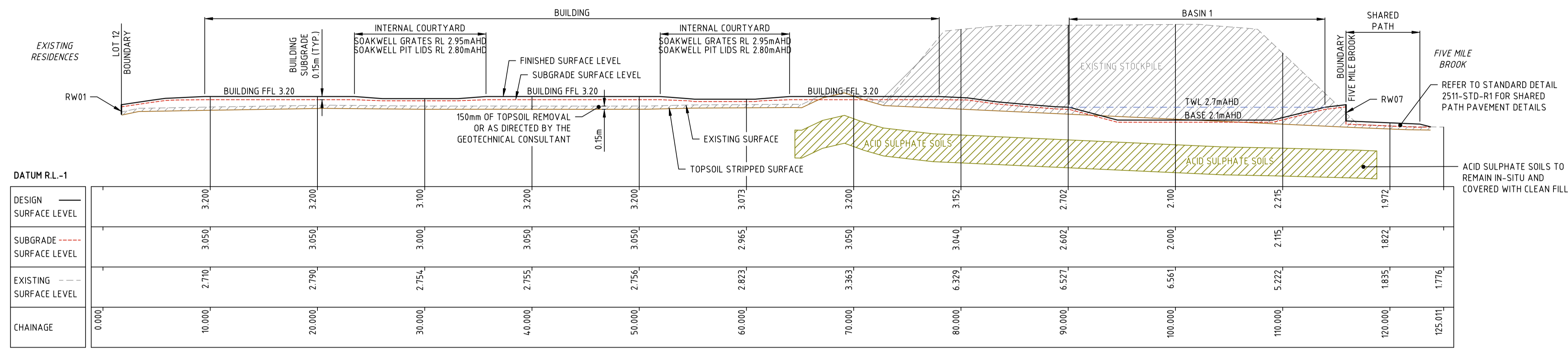




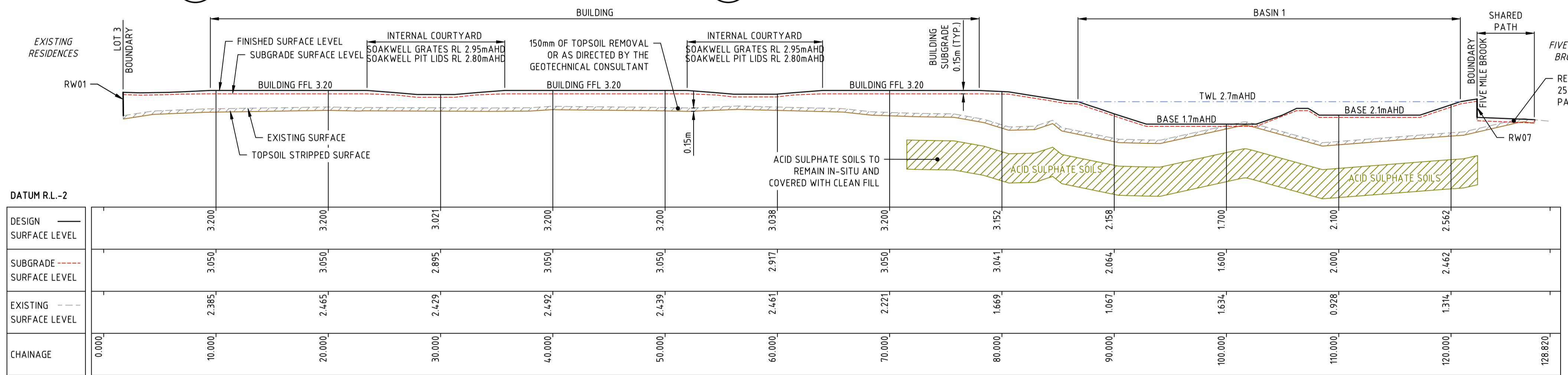
SECTION D
H 1:250 V 1:125



SECTION D
H 1:250 V 1:125



SECTION E
H 1:250 V 1:125



SECTION F
H 1:250 V 1:125

WARNING
EXISTING SERVICES
ALL EXISTING SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO CONSTRUCTION AND PROTECTED AT ALL TIMES THROUGH THE CONSTRUCTION PHASE.



CROFT APPROVAL	BY	DATE
PLANNING		
ENGINEERING		

No.	DATE	DRAWN	APPROVED	AMENDMENT
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B	22.04.24	DWP	BMS	PRELIMINARY ISSUE
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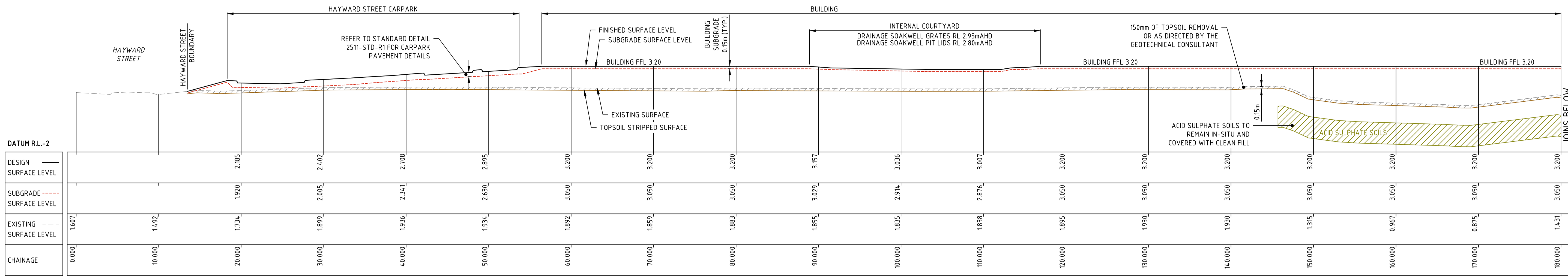
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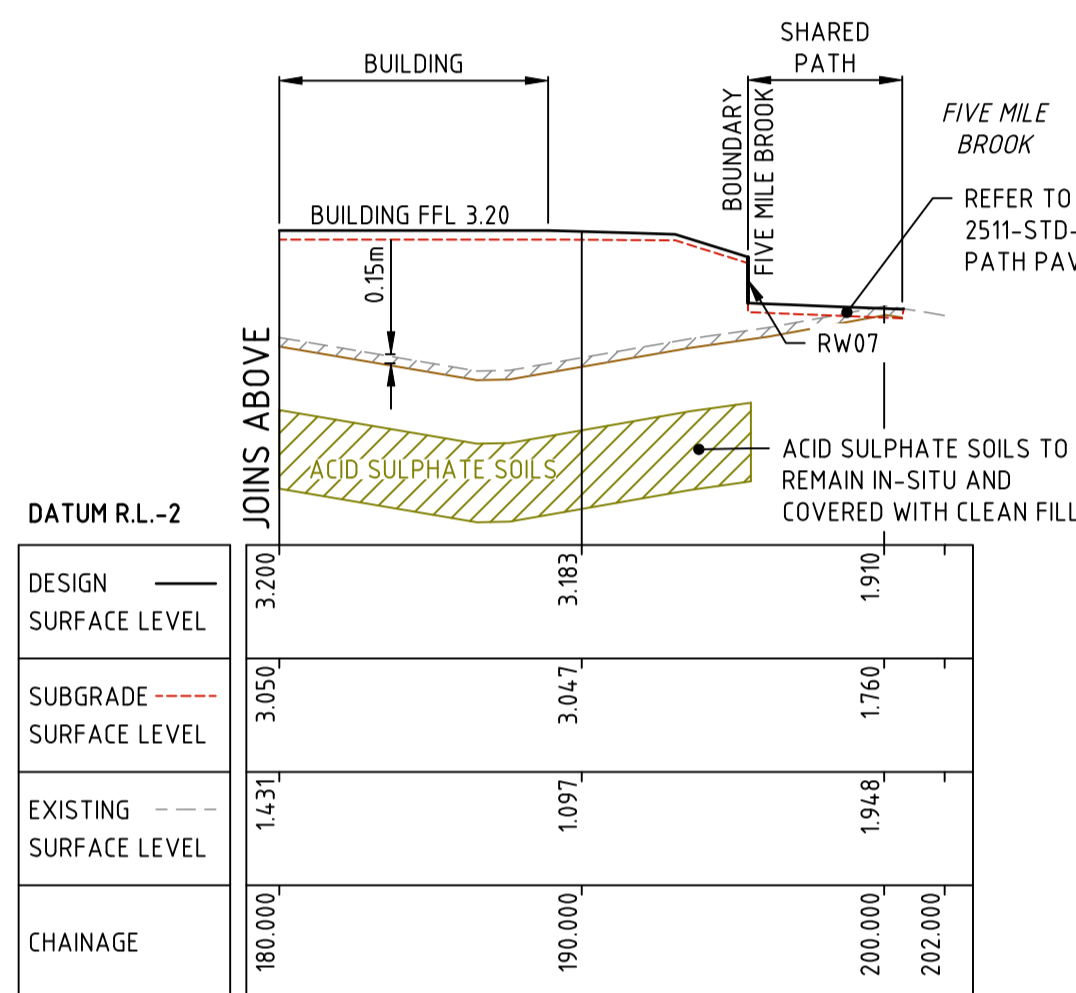
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PROJECT: SOUTH BUNBURY AGED CARE - STAGE 1
TITLE: EARTHWORKS CROSS SECTIONS SHEET 3
DRAWING NUMBER: 2511-01-112
ISSUE: C

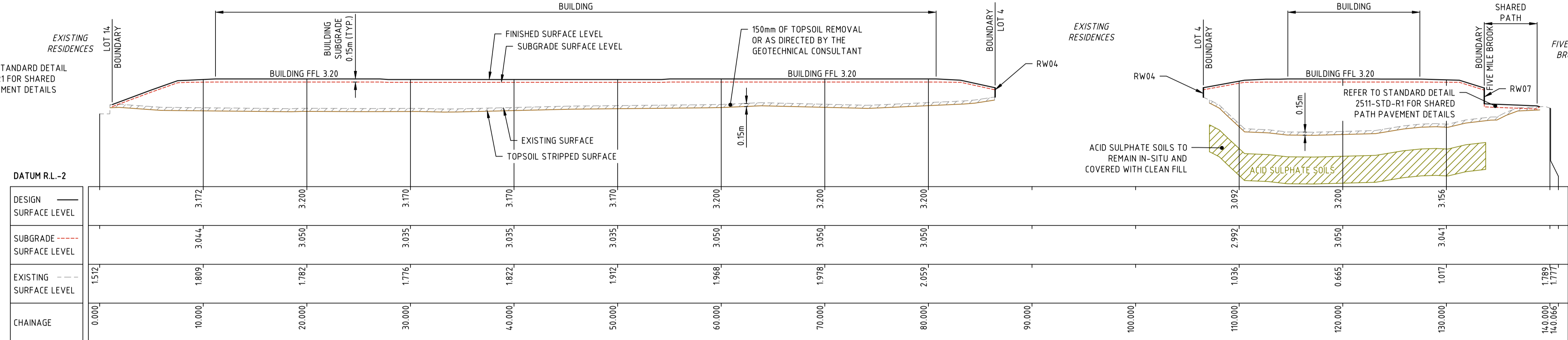
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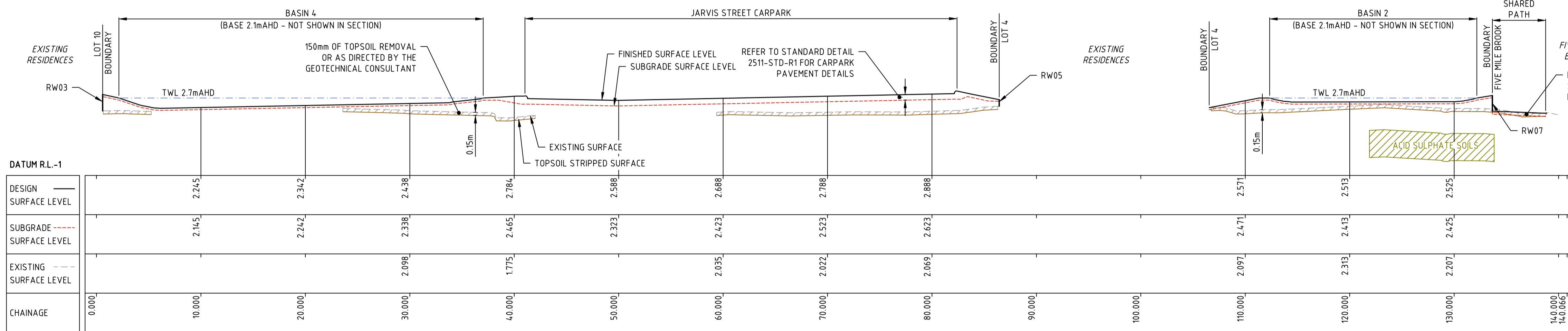
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SECTION G
H 1:250 V 1:125



SECTION H
H 1:250 V 1:125



SECTION I
H 1:250 V 1:125

WARNING
EXISTING SERVICES
ALL EXISTING SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO CONSTRUCTION AND PROTECTED AT ALL TIMES THROUGH THE CONSTRUCTION PHASE.



CROFT APPROVAL	BY	DATE
PLANNING		
ENGINEERING		

No.	DATE	DRAWN	APPROVED	AMENDMENT
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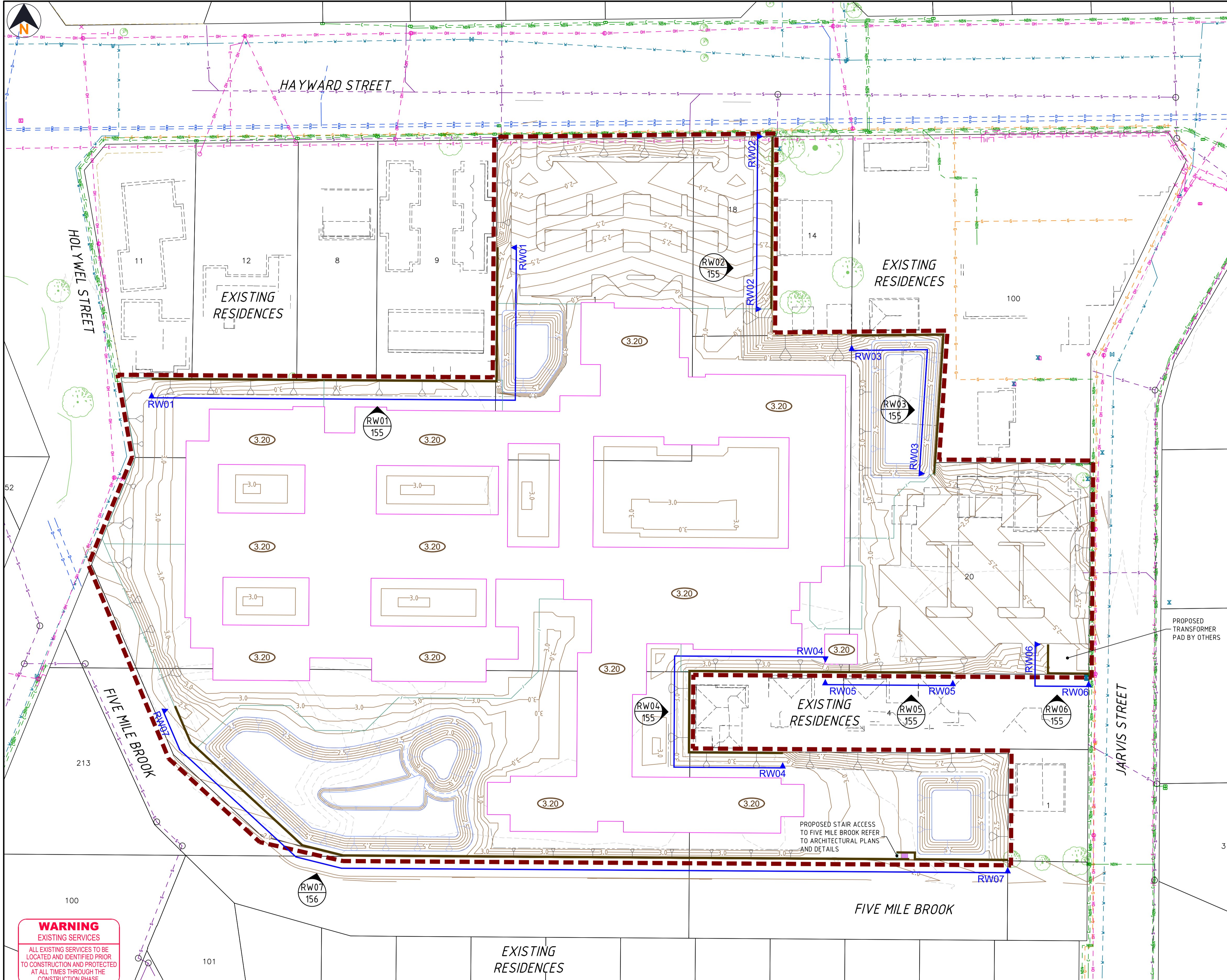
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PROJECT	SOUTH BUNBURY AGED CARE - STAGE 1	
TITLE	EARTHWORKS CROSS SECTIONS SHEET 4	
DRAWING NUMBER	2511-01-113	ISSUE A

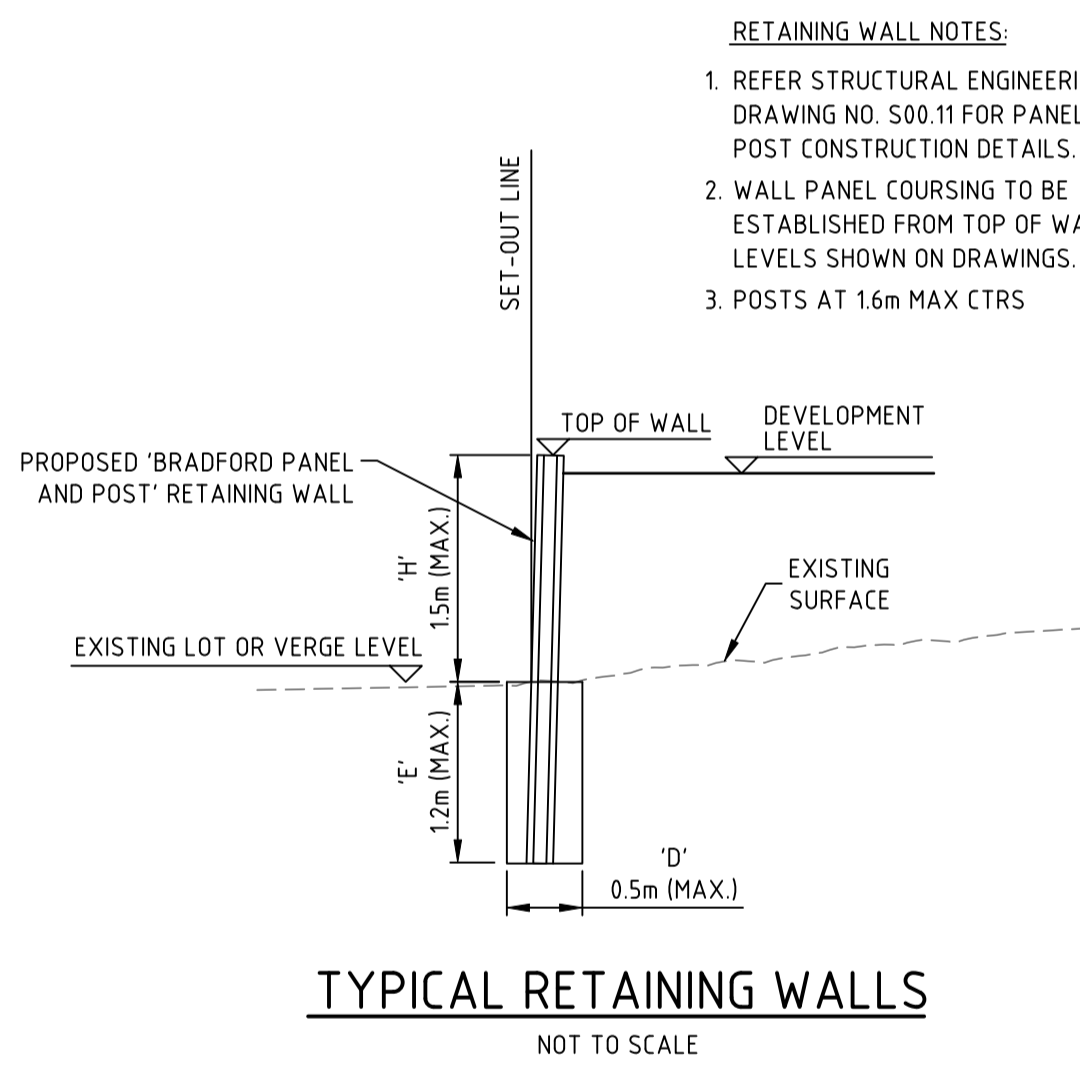


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- NOTES**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.
 - RETAINING WALLS TO BE 'BRADFORD PANEL AND POST' IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND 'GHC GROUP' STRUCTURAL ENGINEERING DRAWING NO. S00.11 (PROJECT NO. 2868-152).
 - ALL FINISHED LEVELS ARE IN METRES TO AHD. HORIZONTAL DATUM IS PCG94.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO LOCATE ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS ON SITE.
 - WALL COURSING TO BE ESTABLISHED FROM TOP OF WALL LEVELS SHOWN ON DRAWINGS.
 - CONTRACTOR TO PROVIDE INDEPENDENT STRUCTURAL CERTIFICATION THAT RETAINING WALLS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATION. ALL FEES TO BE PAID BY THE CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE SUPERINTENDENT AN AS-CONSTRUCTED SURVEY OF RETAINING WALLS WITHIN THE EXTENT OF WORKS BOUNDARY. THE LEVELS AND LOCATION SHOULD BE ACCURATELY DEFINED. THE AS-CONSTRUCTED SURVEY SHALL BE SUPPLIED IN DIGITAL FORMAT (CAD AND PDF FILES).

- LEGEND**
- EXTENT OF WORKS
 - EXISTING SURFACE CONTOUR (0.5m)
 - PROPOSED FINISHED SURFACE CONTOUR (0.1m)
 - PROPOSED FINISHED SURFACE LEVEL
 - PROPOSED RETAINING WALLS
 - EXISTING RETAINING WALLS
 - TOP OF RETAINING WALL LEVEL
 - REFER TO RETAINING WALL PROFILE SHEETS
 - PROPOSED FENCE
 - PROPOSED BUILDING (ARCHITECTURAL DRG. REF: DA25 REV 3)



WARNING
EXISTING SERVICES
ALL EXISTING SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO CONSTRUCTION AND PROTECTED AT ALL TIMES THROUGH THE CONSTRUCTION PHASE.



PLAN
SCALE 1:500

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STRUCTURAL ENGINEER _____ COMPANY _____ DATE _____

CROFT APPROVAL	BY	DATE
PLANNING		
ENGINEERING		

Plot Date: 26/09/24 - 2133

No.	DATE	DRAWN	APPROVED	AMENDMENT
C	26.09.24	DWP	BMS	ISSUED FOR TENDER
B	22.04.24	DWP	BMS	PRELIMINARY ISSUE
A	08.01.24	DWP	BMS	ISSUED FOR APPROVAL

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CLIENT	CROFT DEVELOPMENTS PTY LTD		
DESIGNED	DWP	CHECKED	BMS
DRAWN	DWP	CHECKED	BMS
APPROVED	B. M. SMITH		
DATE	26.09.24		

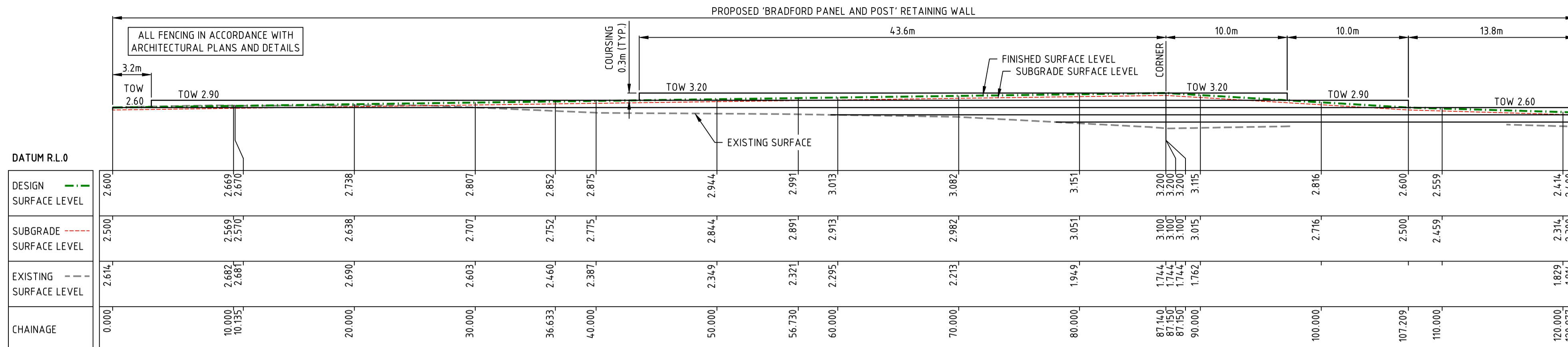
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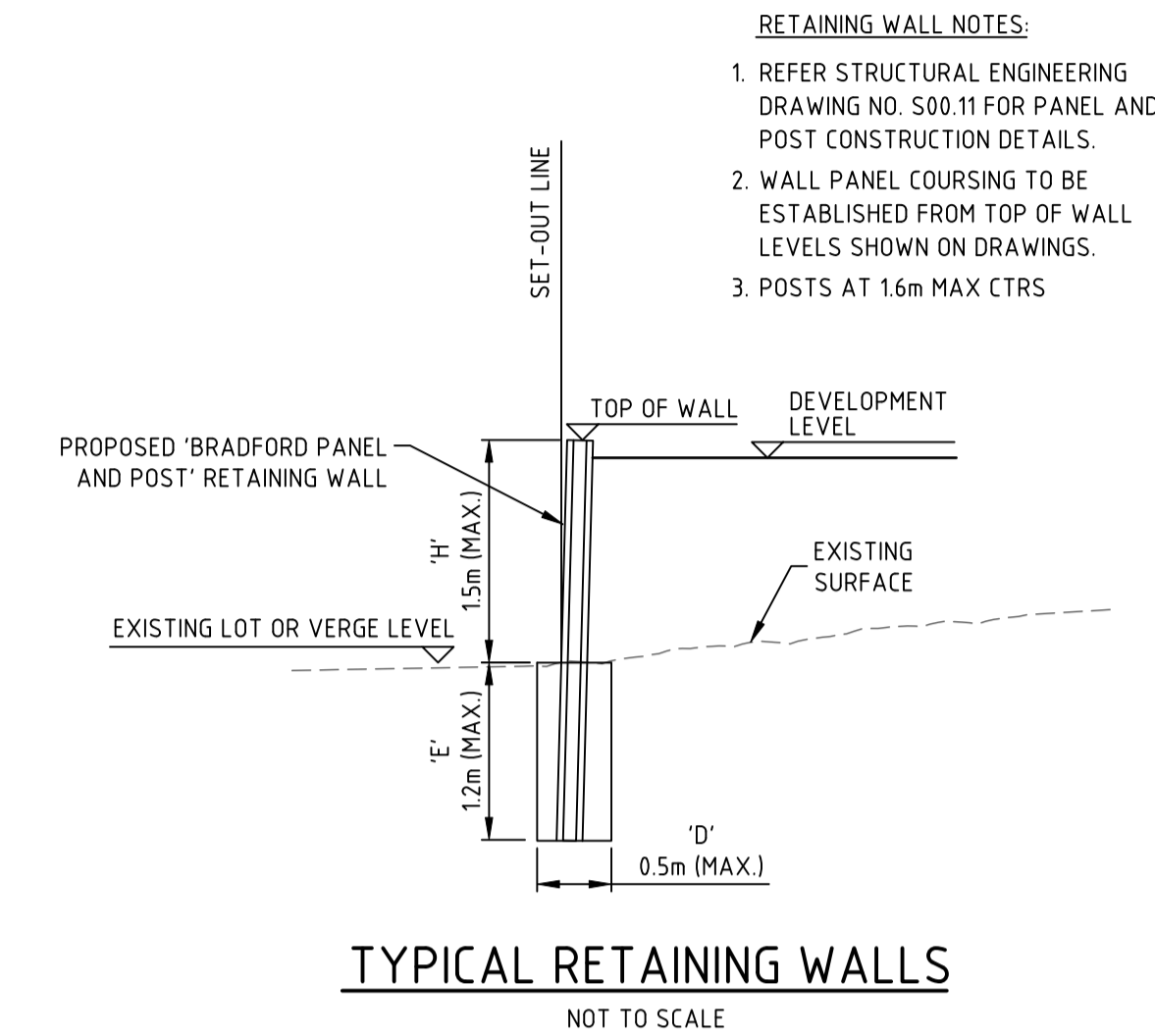
PROJECT	SOUTH BUNBURY AGED CARE - STAGE 1		
TITLE	RETAINING WALL PLAN		
DRAWING NUMBER	2511-01-150	ISSUE	C

SCALE 1:500

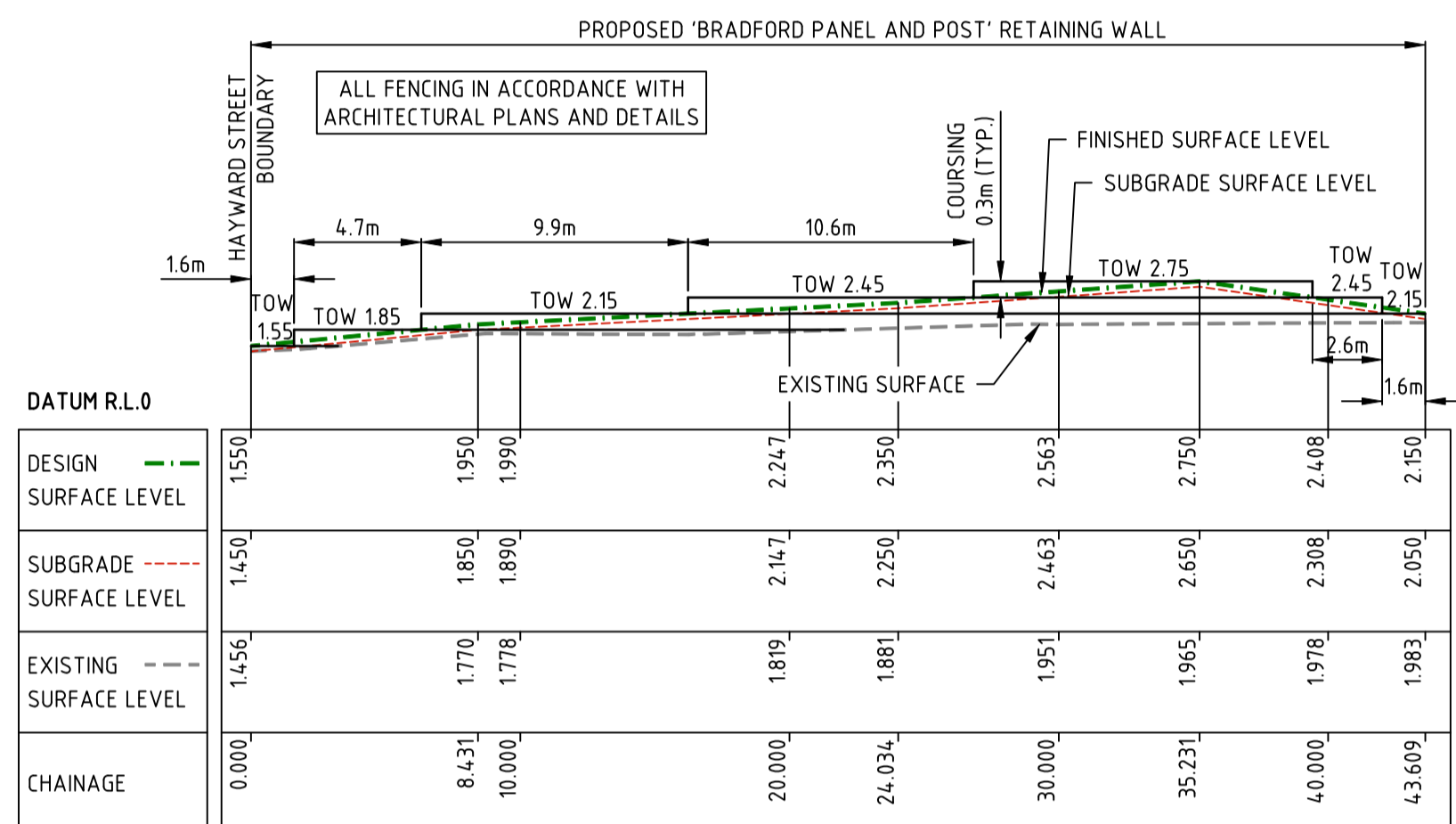
REFER STRUCTURAL ENGINEERING DRAWING NO. S00.11 FOR PANEL & POST CONSTRUCTION DETAILS



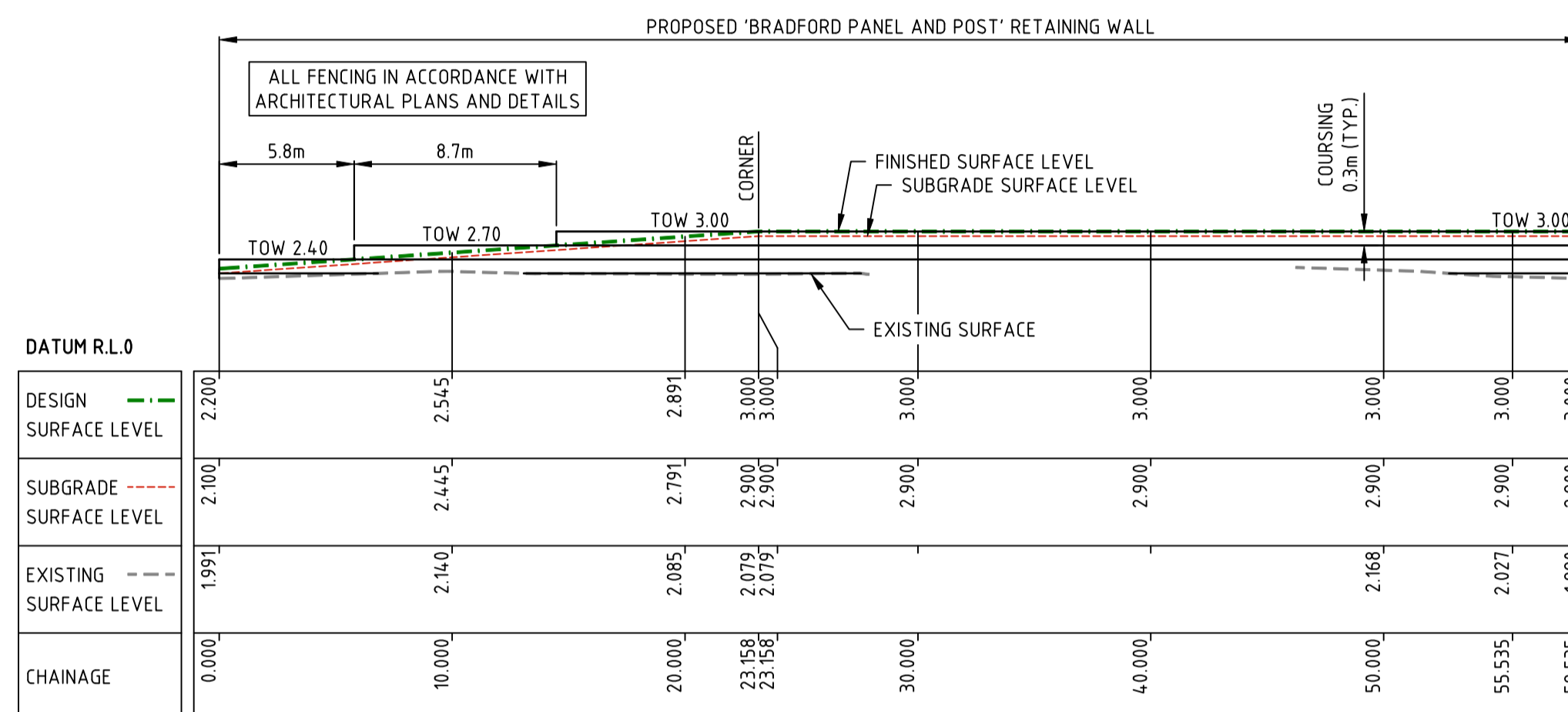
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H 1:250 V 1:125



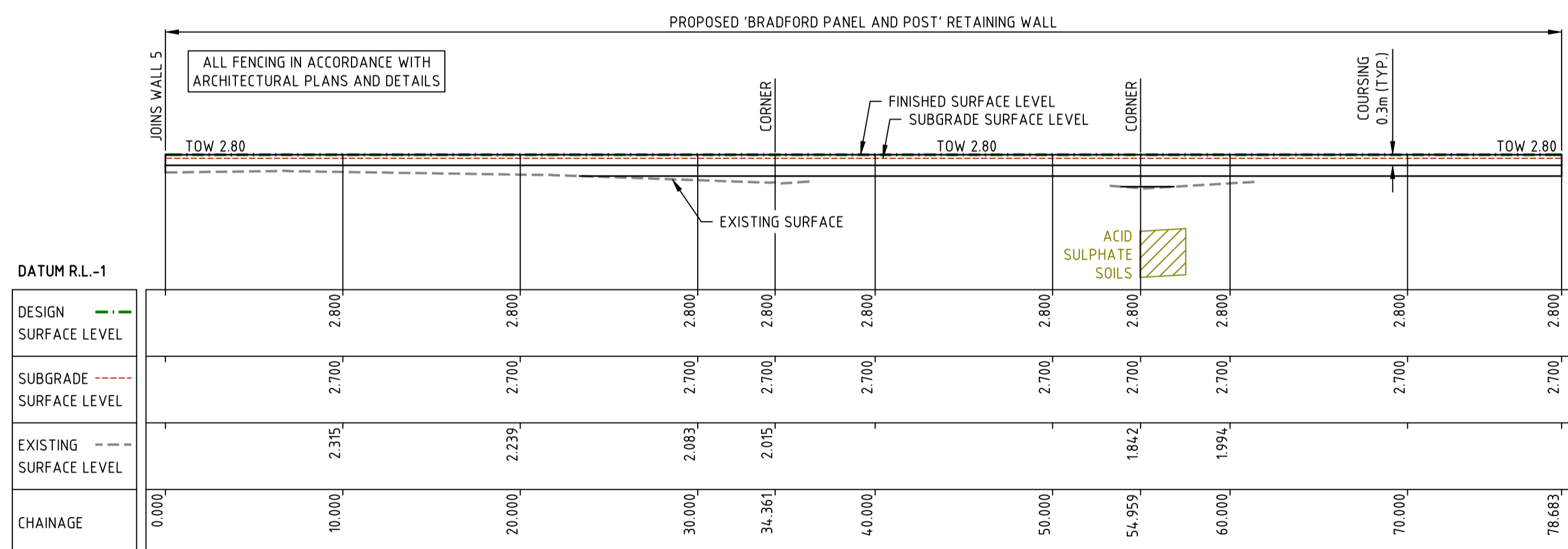
TYPICAL RETAINING WALLS
NOT TO SCALE



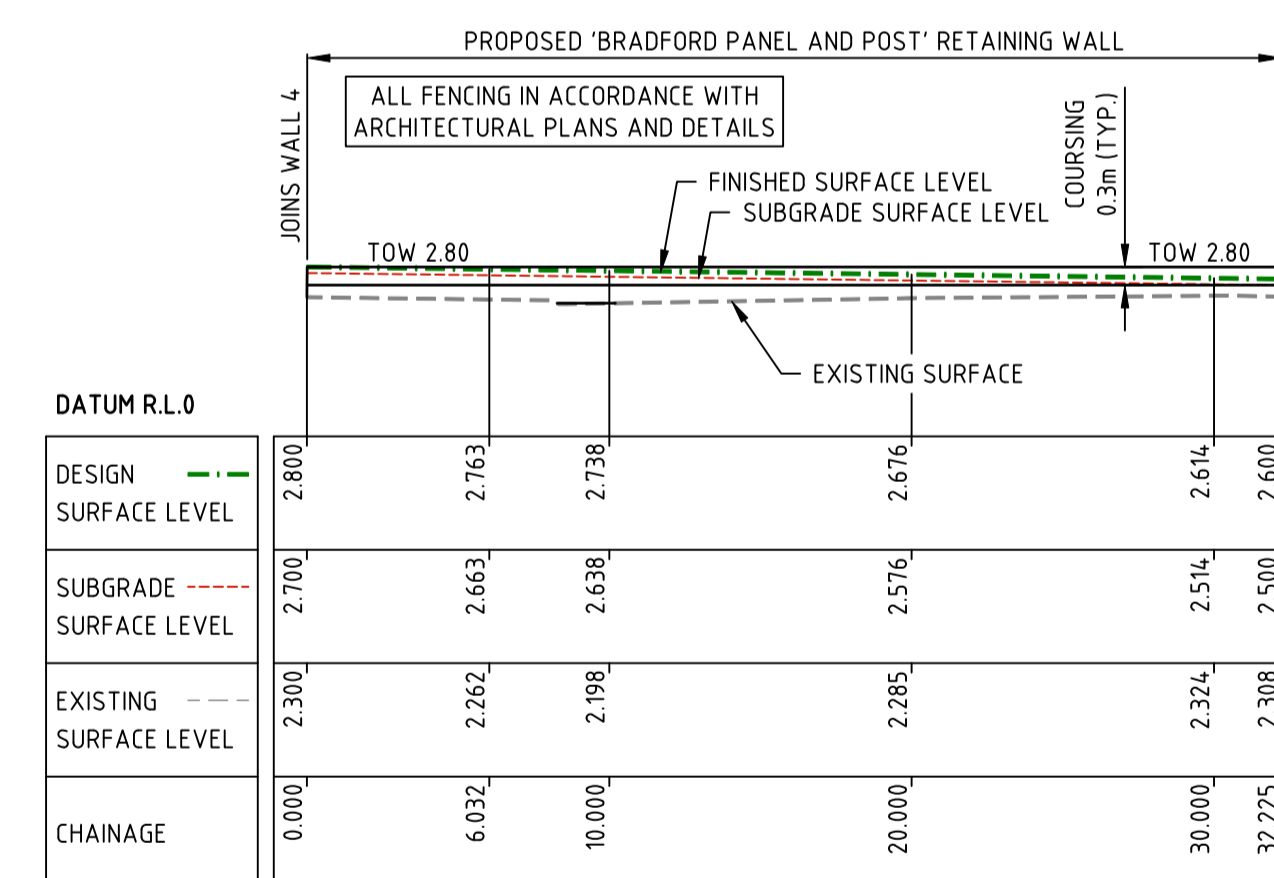
ELEVATION RW02
H 1:250 V 1:125



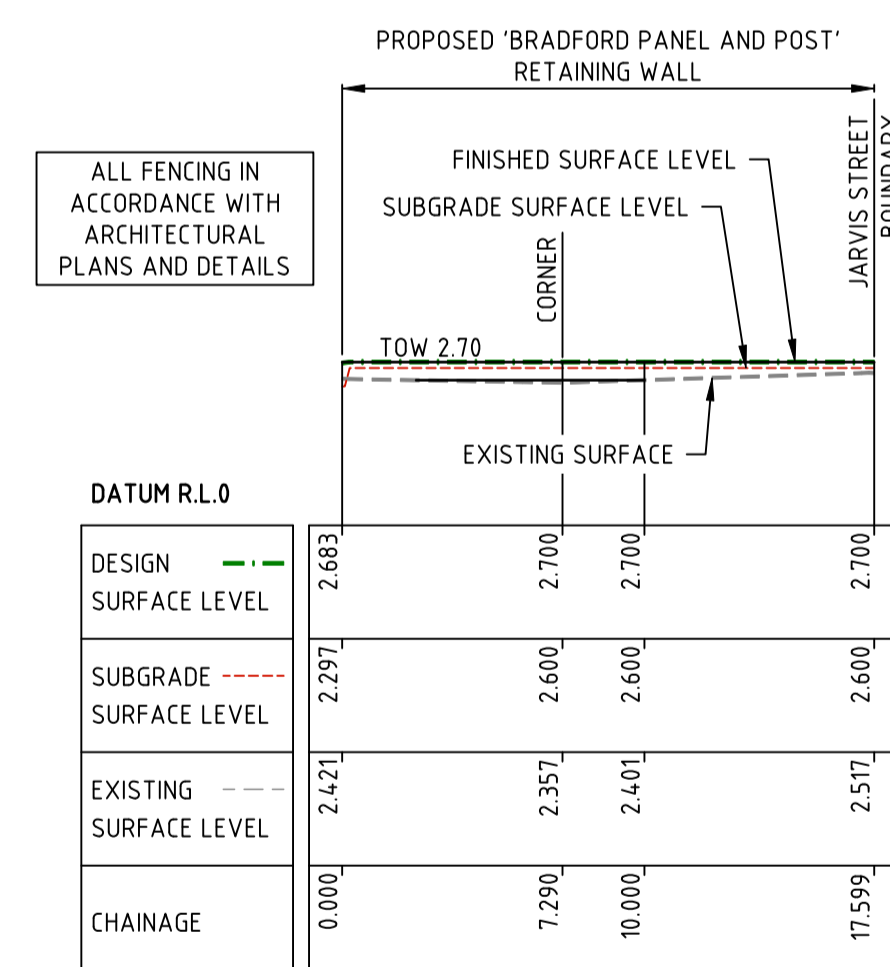
ELEVATION RW03
H 1:250 V 1:125



ELEVATION RW04
H 1:250 V 1:125



ELEVATION RW05
H 1:250 V 1:125



ELEVATION RW06
H 1:250 V 1:125

WARNING
EXISTING SERVICES
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STRUCTURAL ENGINEER _____ COMPANY _____ DATE _____

CROFT APPROVAL	BY	DATE
PLANNING		
ENGINEERING		

SCALE 1:250
0 5 10 15 2.5 5 7.5
A1

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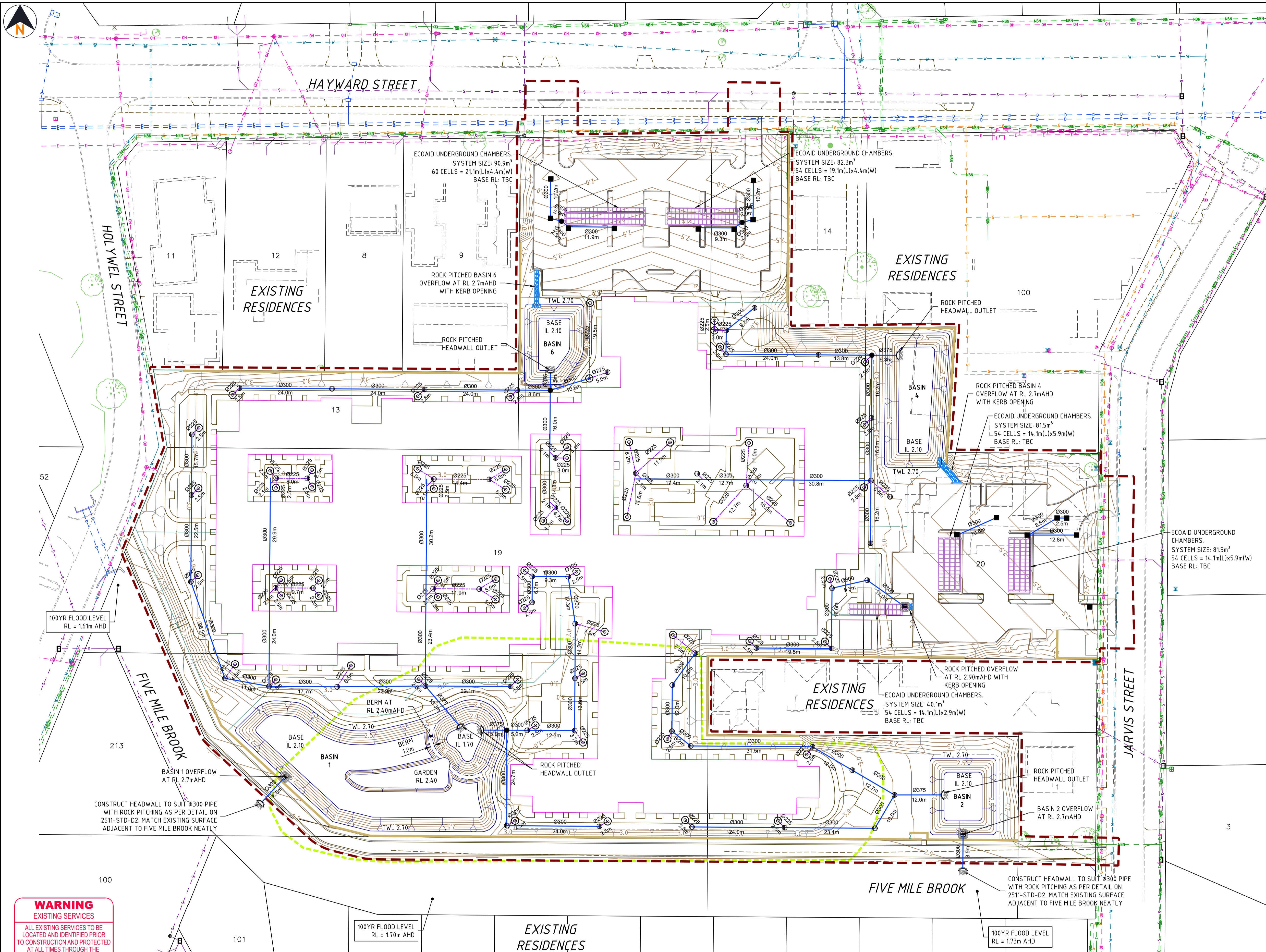
No.	DATE	DRAWN	APPROVED	AMENDMENT	No.	DATE	DRAWN	APPROVED	AMENDMENT
C	26.09.24	DWP	BMS	ISSUED FOR TENDER					
B	22.04.24	DWP	BMS	PRELIMINARY ISSUE					
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DRAWN	DWP	CHECKED	BMS	DATE	26.09.24

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I 08 9425 5900 e info@tabec.com.au
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PROJECT	SOUTH BUNBURY AGED CARE - STAGE 1		
TITLE	RETAINING WALL LONGITUDINAL SECTIONS SHEET 1		
DRAWING NUMBER	2511-01-155	ISSUE	C



- ### NOTES
- GENERAL**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS, SPECIFICATION AND IPWEA GUIDELINES.
 - THE CONSTRUCTION OF THE WORKS SHALL BE TO THE APPROVAL OF THE CITY OF BUNBURY.
 - ALL PIPE SIZES ARE IN MILLIMETRES, DISTANCES AND LEVELS IN METRES (U.N.O.).
 - ALL LEVELS SHALL BE DETERMINED FROM BENCHMARKS ESTABLISHED BY THE PROJECT SURVEYOR.
 - THE CONTRACTOR SHALL REPORT ANY DISCREPANCY OR CLASH WITH OTHER SERVICES TO THE SUPERINTENDENT.
 - UNLESS INSTRUCTED OTHERWISE THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING TREES OR VEGETATION.
- DRAINAGE**
- FOR DRAINAGE TYPICAL DETAILS REFER TO STANDARD DRAWINGS '2511-STD-D1 AND 2511-STD-D2'.
 - ALL TRENCHING, PIPE BEDDING AND BACKFILLING SHALL BE IN ACCORDANCE WITH AS3725.
 - CENTRELINES OF DRAINAGE MANHOLES SHALL BE ALIGNED 3.0m FROM THE ROAD RESERVE BOUNDARY UNLESS SHOWN OTHERWISE.
 - PIPE DISTANCES ARE MEASURED BETWEEN PIT CENTRES. PIT CHAINAGES ARE TAKEN FROM THE PIT CENTRES PERPENDICULAR TO THE ROAD CENTRELINE.
 - ALL MANHOLES AND ENTRY PITS SHALL BE LOCATED AS SHOWN IRRESPECTIVE OF PIPE LENGTHS SHOWN ON THE DRAWINGS.
 - AT LOW POINTS THE ENTRY PITS SHALL BE LOCATED AT THE LOW POINT OF THE ROAD PAVEMENT.
 - THE MANHOLES AND ENTRY PIT LIDS SHALL BE SET TO SUIT THE VERGE SLOPE, NOMINALLY 2% UPWARDS FROM THE TOP OF BACK OF KERB.
 - ALL DRAINAGE PIPES UNDER ROAD PAVEMENT SHALL BE CLASS 2 RRJ RCP SOCKET JOINTS (U.N.O.) WITH MINIMUM COVER OF 0.6m AND SHALL HAVE A MINIMUM CLEARANCE OF 0.15m TO OTHER SERVICES (U.N.O.).
 - ALL DRAINAGE PIT LIDS SHALL BE TRAFFICABLE.

- ### LEGEND
- EXTENT OF WORKS
 - PROPOSED BUILDING (ARCHITECTURAL DRG. REF: DA25 REV 3)
 - PROPOSED KERBING
 - EXISTING KERBING
 - PROPOSED FOOTPATH
 - PROPOSED DRAINAGE
 - PROPOSED SOAKWELL CONNECTION (DN225 U.N.O.)
 - EXISTING DRAINAGE
 - PROPOSED ECO AID CHAMBERS
 - PROPOSED KERB OPENING / BASIN OVERFLOW
 - PROPOSED DRAINAGE BASIN
 - MH = MANHOLE (Ø1050) CP = CIRCULAR GRATED GULLY PIT (Ø1500)
 - SW = SOAKWELL (Ø1800) OS = OUTLET STRUCTURE (Ø1500)
 - GP = GRATED GULLY PIT (Ø1050) HW = HEADWALL (Ø375)
 - S.I.L. SEWER INVERT LEVEL
 - D.I.L. DRAINAGE INVERT LEVEL
 - 3.0 PROPOSED SURFACE CONTOUR
 - RETAINING WALL
 - PROPOSED FENCE
 - EXISTING WATER MAIN
 - EXISTING SEWER
 - PM EXISTING SEWER PRESSURE MAIN
 - EXISTING GAS MAIN
 - EXISTING OPTIC FIBRE
 - EXISTING COMMUNICATIONS
 - EXISTING UNDERGROUND HIGH VOLTAGE POWER
 - EXISTING UNDERGROUND LOW VOLTAGE POWER
 - EXISTING OVERHEAD HIGH VOLTAGE POWER
 - EXISTING POWER POLE
 - SWAMP AREA (APPROXIMATE)

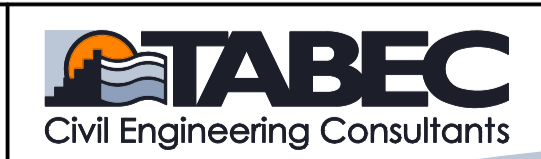
WARNING
EXISTING SERVICES
ALL EXISTING SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO CONSTRUCTION AND PROTECTED AT ALL TIMES THROUGH THE CONSTRUCTION PHASE.



PLAN
SCALE 1:500

CROFT APPROVAL	BY	DATE
PLANNING		
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COLOUR
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PROJECT	SOUTH BUNBURY AGED CARE - STAGE 1	
TITLE	DRAINAGE PLAN	
DRAWING NUMBER	2511-01-400	ISSUE
		A

Plot Date: 26/09/24 - 2133
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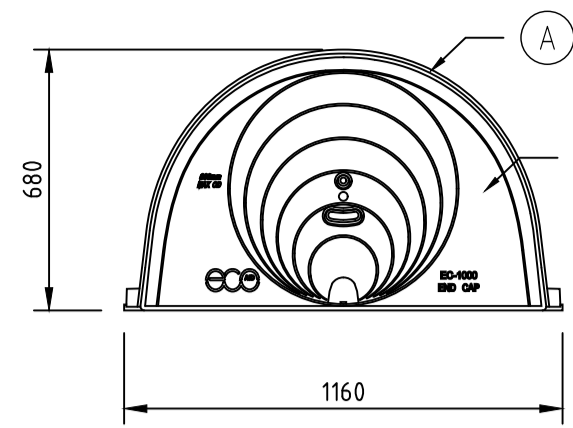
SUPPLIED SYSTEM COMPONENTS

- A. EC-1000 Chamber
- B. EC-1000 End Cap
- C. Bidim A24 or A29, Nonwoven Geotextile
- D. Bidim A19, Nonwoven Geotextile, roll width 2.0m ^{*1,3}
- E. Bontec SG40 or Mirafi 600X, Woven Geotextile, roll width 1.3m ^{*1,3}

LEGEND

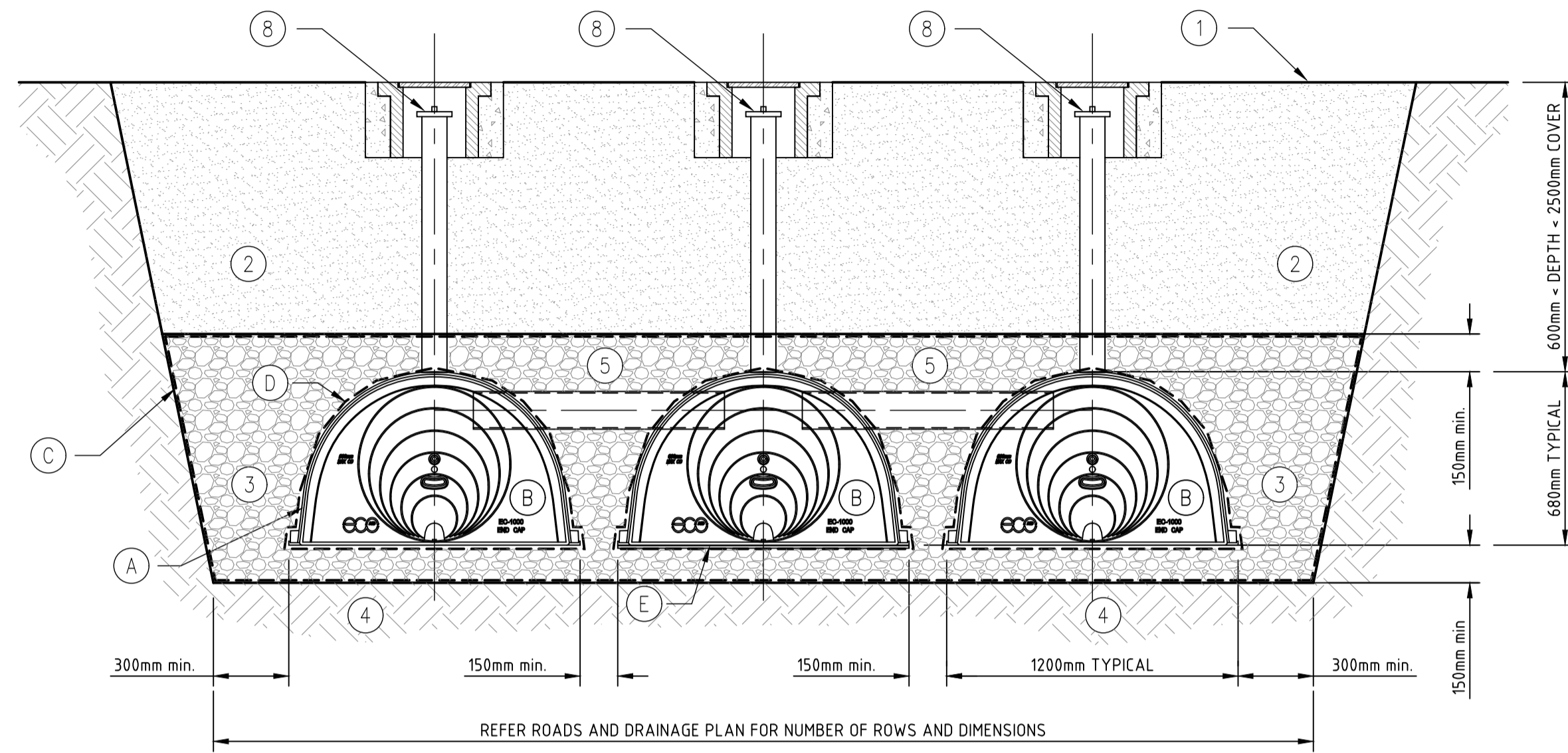
- 1. Top of Finished Surface Level
- 2. Granular, well-graded sub-base material ^{*2}
- 3. 20mm - 50mm clean, crushed angular stone ^{*2}
- 4. Subgrade soil
- 5. Approx. 1m x ϕ 150 PVC SN8 System equalising Connecting Pipes
- 6. Cell Inlet pipe - RCP typically
- 7. Pit, manhole or soakwell
- 8. Inspection Port ^{*4}
- 9. Typical Location for System Connecting Pipes ^{*5}

*1 Denotes refer to Notes for further info. ^{*5}

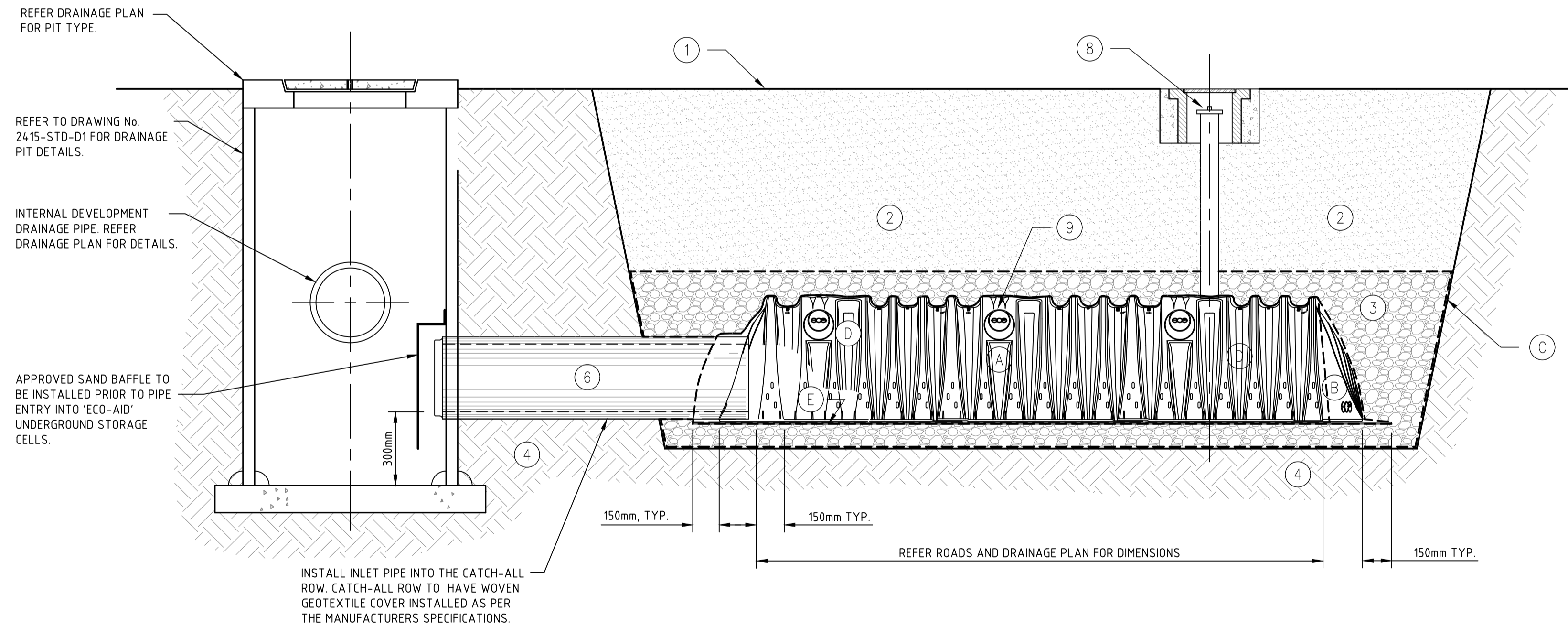


STORAGE CELL NOTES:

- 1) Or equivalent approved by ecoAID.
- 2) See Manufacturers' drawing EC_002 entitled "EC-1000 System Specification" for detailed requirements.
- 3) Contractors to refer to EC-1000 Installation Guidelines for additional information on Catch-All inlet row set-up.
- 4) Recommended, when L > 25m with pit access one end, or L > 50m with access both ends. (See EC-1000 Inspection Port Detail Drawing.)
- 5) System Connecting Pipes to be installed 2nd Row in from beginning then Every 4th Row. Refer Drainage Plan for Layout.



STORAGE CELL TYPICAL SECTION
SCALE 1:20



STORAGE CELL TYPICAL ELEVATION
SCALE 1:20

CROFT APPROVAL	BY	DATE
PLANNING		
ENGINEERING		

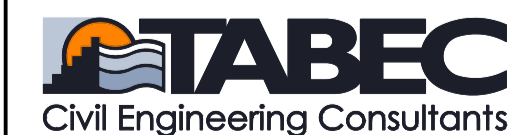
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PROJECT	SOUTH BUNBURY AGED CARE - STAGE 1		
TITLE	STANDARD DETAILS - DRAINAGE SHEET 3		
DRAWING NUMBER	2511-STD-D3	ISSUE	A