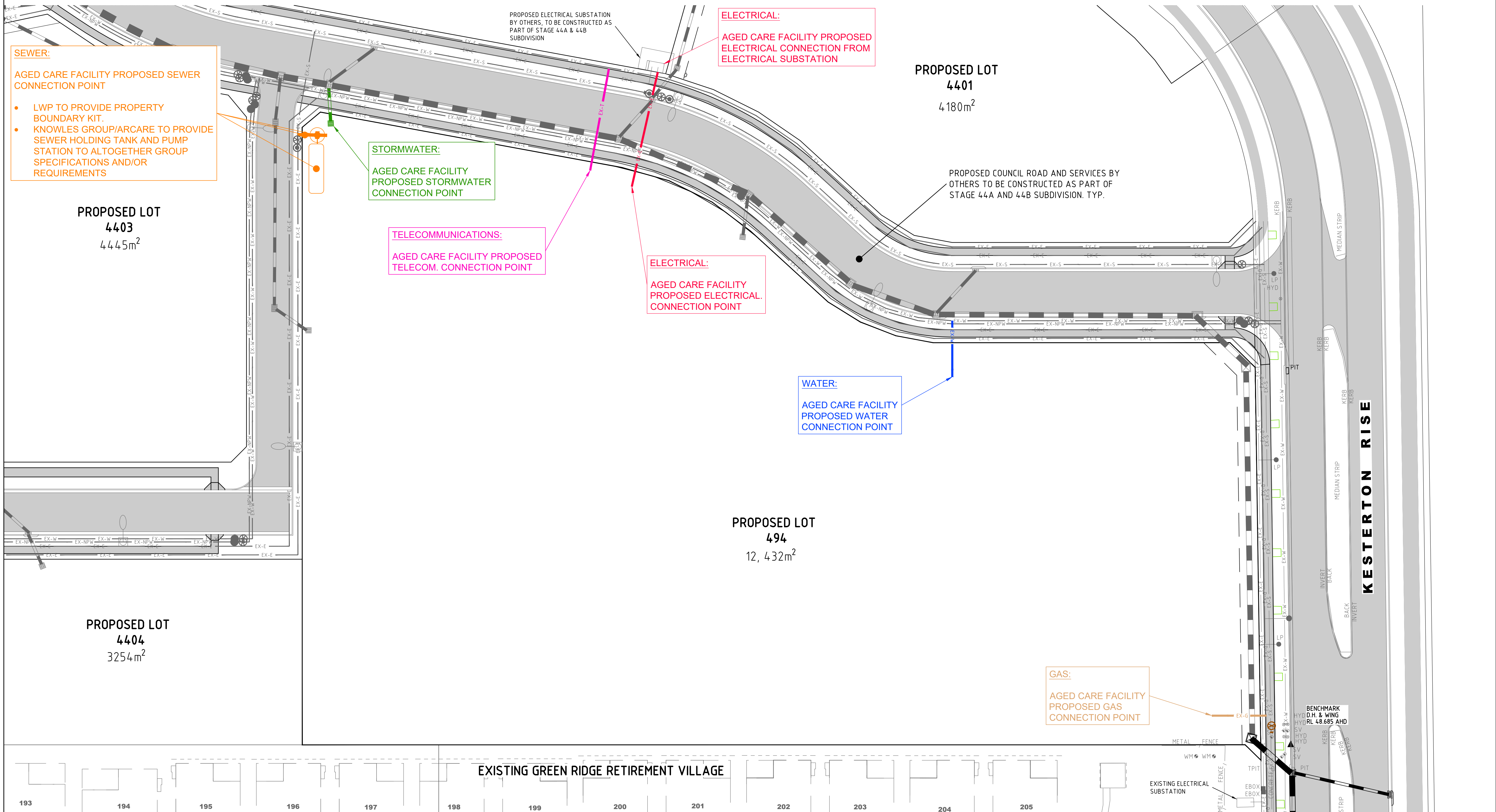
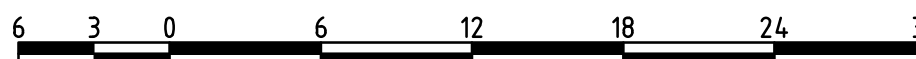


HUNTLEE AGED CARE FACILITY

INFRASTRUCTURE DELIVERY PLAN



INFRASTRUCTURE DELIVERY PLAN



LENGTHS ARE IN METRES
SCALE 1 : 300 @ A1

A	DA ISSUE	29/10/24			
P1	PRELIMINARY ISSUE	14/10/24			
NO	REVISION	DATE	NO	REVISION	DATE

DATUMS USED FOR THIS DESIGN/DRAWING
VERTICAL: AHD - REFER BENCH MARKS ON PLAN
HORIZONTAL: MGA94 - COMBINATION OF NORTHROP STAGE
44A AND 44B CIVIL ENGINEERING PACKAGE REF:44-C16.01
AND FEATURE AND LEVEL SURVEY PREPARED BY DE WITT
CONSULTING REF: 15019-A DATED: 26/02/2024



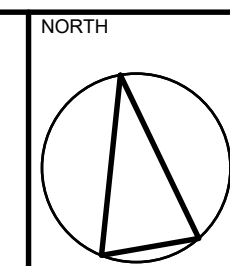
Lanigan Civil

Patama Pty Ltd (ABN: 79 108 035 463)
Trading as Lanigan Civil
Consulting Civil Engineers
Unit 4, 7-9 Hall Street, Braeside VIC 3195
Tel: 03 9558 4380 Fax: 03 9587 9707
Email: admin@lancivil.com.au

INFRASTRUCTURE DELIVERY PLAN

HUNTLEE
AGED CARE FACILITY

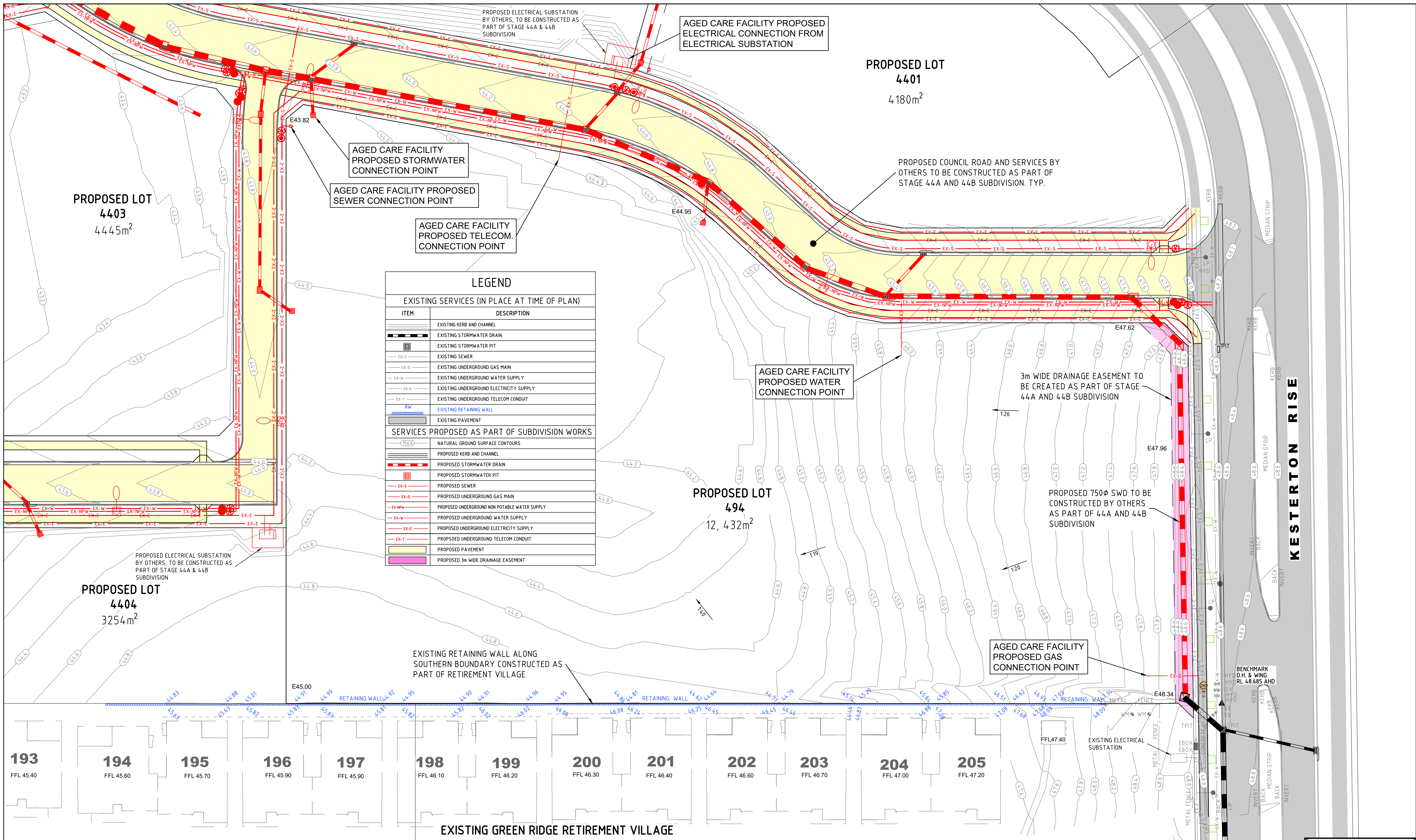
107 KESTERTON RISE, BRANXTON
NSW, 2335



KIM WORKS		
DESIGNED MJL	DRAWN MJL	CHECKED NJC
DATE 02/05/24	SCALE/S AS NOTED	
DRG NO LC2667-TP01		ISSUE A



CONTRACTOR MUST DIAL 1100 TO CONFIRM
LOCATION OF EXISTING SERVICES AND
COMPLY WITH ANY AUTHORITY
REQUIREMENTS REGARDING EXISTING
SERVICES PRIOR TO COMMENCEMENT OF
ANY WORKS.



193

FFL 45.40

194

FFL 45.60

195

FFL 45.70

196

FFL 45.90

197

FFL 45.90

198

FFL 46.10

199

FFL 46.20

200

FFL 46.30

201

FFL 46.40

202

FFL 46.60

203

FFL 46.70

204

FFL 47.00

205

FFL 47.20

EXISTING GREEN RIDGE RETIREMENT VILLAGE

LEGEND

EXISTING SERVICES (IN PLACE AT TIME OF PLAN)

ITEM	DESCRIPTION
	EXISTING KERB AND CHANNEL
	EXISTING STORMWATER DRAIN
	EXISTING STORMWATER PIT
	EXISTING SEWER
	EXISTING UNDERGROUND GAS MAIN
	EXISTING UNDERGROUND WATER SUPPLY
	EXISTING UNDERGROUND ELECTRICITY SUPPLY
	EXISTING UNDERGROUND TELECOM CONDUIT
	EXISTING RETAINING WALL
	EXISTING PAVEMENT

SERVICES PROPOSED AS PART OF SUBDIVISION WORKS

	NATURAL GROUND SURFACE CONTOURS
	PROPOSED KERB AND CHANNEL
	PROPOSED STORMWATER DRAIN
	PROPOSED STORMWATER PIT
	PROPOSED SEWER
	PROPOSED UNDERGROUND GAS MAIN
	PROPOSED UNDERGROUND NON POTABLE WATER SUPPLY
	PROPOSED UNDERGROUND WATER SUPPLY
	PROPOSED UNDERGROUND ELECTRICITY SUPPLY
	PROPOSED UNDERGROUND TELECOM CONDUIT
	PROPOSED PAVEMENT
	PROPOSED 3m WIDE DRAINAGE EASEMENT

PROPOSED LOT 4401
4 180m²

PROPOSED LOT 4403
4 445m²

PROPOSED LOT 4404
3 254m²

PROPOSED LOT 494
12, 432m²

AGED CARE FACILITY PROPOSED ELECTRICAL CONNECTION FROM ELECTRICAL SUBSTATION

AGED CARE FACILITY PROPOSED STORMWATER CONNECTION POINT

AGED CARE FACILITY PROPOSED SEWER CONNECTION POINT

AGED CARE FACILITY PROPOSED TELECOM. CONNECTION POINT

AGED CARE FACILITY PROPOSED WATER CONNECTION POINT

AGED CARE FACILITY PROPOSED GAS CONNECTION POINT

PROPOSED COUNCIL ROAD AND SERVICES BY OTHERS TO BE CONSTRUCTED AS PART OF STAGE 44A AND 44B SUBDIVISION. TYP.

3m WIDE DRAINAGE EASEMENT TO BE CREATED AS PART OF STAGE 44A AND 44B SUBDIVISION

PROPOSED 750Ø SWD TO BE CONSTRUCTED BY OTHERS AS PART OF 44A AND 44B SUBDIVISION

EXISTING RETAINING WALL ALONG SOUTHERN BOUNDARY CONSTRUCTED AS PART OF RETIREMENT VILLAGE

EXISTING ELECTRICAL SUBSTATION

BENCHMARK D.H. & WING RL 48.685 AHD

KESTERTON RISE

6 3 0 6 12 18 24 30

LENGTHS ARE IN METRES
SCALE 1 : 300 @ A1

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EXISTING FEATURES PLAN

HUNTLEE
AGED CARE FACILITY

107 KESTERTON RISE, BRANXTON,
NSW, 2335

NORTH

DESIGNED
MJL

DRAWN
MJL

CHECKED
NJC

DATE
02/05/24

SCALE/S
AS NOTED

DWG NO
LC2667-SURV1

ISSUE
B

DA ISSUE
29/10/24

AMENDED TO PLANNER COMMENTS
31/07/24

PRELIMINARY ISSUE
03/05/24

REVISION

DATE

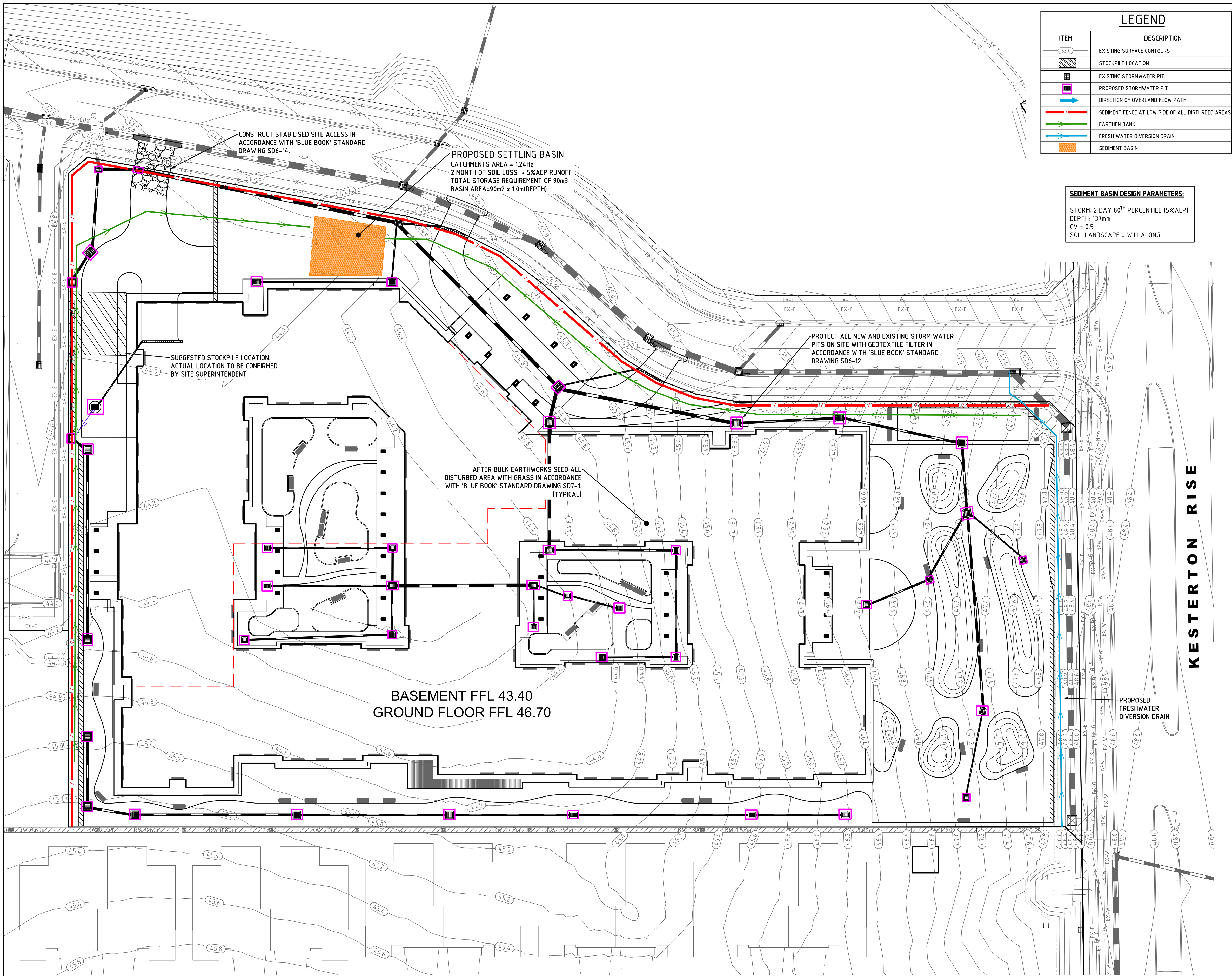
REVISION

DATE

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HORIZONTAL: MGA94 - COMBINATION OF NORTHPROP STAGE 44A AND 44B CIVIL ENGINEERING PACKAGE REF:44-C16.01
AND FEATURE AND LEVEL SURVEY PREPARED BY DE WITT CONSULTING REF: 15019-A DATED: 26/02/2024

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CONTRACTOR MUST DIAL 1100 TO CONFIRM LOCATION OF EXISTING SERVICES AND COMPLY WITH ANY AUTHORITY REQUIREMENTS REGARDING EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORKS.



LEGEND	
ITEM	DESCRIPTION
	EXISTING SURFACE CONTOURS
	STOCKPILE LOCATION
	EXISTING STORMWATER PIT
	PROPOSED STORMWATER PIT
	DIRECTION OF OVERLAND FLOW PATH
	SEDIMENT FENCE AT LOW SIDE OF ALL DISTURBED AREAS
	EARTHEN BANK
	FRESH WATER DIVERSION DRAIN
	SEDIMENT BASIN

SEDIMENT BASIN DESIGN PARAMETERS:
STORM: 2 DAY 80TH PERCENTILE (5% AEP)
DEPTH: 137mm
CV = 0.5
SOIL LANDSCAPE = WILLALONG

GENERAL NOTES:

1. THIS PLAN IS TO BE READ WITH THE ENGINEERING PLANS AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT AT THE SUBJECT SITE.
2. THE CONTRACTOR WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED ON THIS DRAWING AND CONSTRUCTED FOLLOWING THE GUIDELINES STATED IN MANAGING URBAN STORMWATER: SOILS & CONSTRUCTION (LANDCOM 2004) COMMONLY KNOWN AS THE 'BLUE BOOK'.
3. ALL SUBCONTRACTORS ARE TO BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.
4. SEDIMENT FENCES ARE TO BE INSTALLED WHERE SHOWN ON THE DRAWING AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN THE COARSER SEDIMENT FRACTIONS AS NEAR AS POSSIBLE TO THEIR SOURCE
5. WATER MUST BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM WITH INLET FILTERS (SD 6-11 OR SD 6-12) UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN TREATED IN AN APPROVED DEVICE.
6. TEMPORARY SEDIMENT TRAPS WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
7. ACCEPTABLE BINS MUST BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER.

SEQUENCE OF WORKS

WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:

- (a). INSTALL ALL SEDIMENT FENCING WHERE SHOWN ON THIS DRAWING TO DETAIL ON STANDARD DRAWING SD 6-8
- (b). CONSTRUCT THE STABILISED SITE ACCESS TO THE DETAIL SHOWN ON SD 6-14
- (c). INSTALL MESH AND GRAVEL FILTERS (SD 6-11) AT DOWNSLOPE KERB INLETS
- (d). INSTALL GEOTEXTILE INLET FILTERS (SD 6-12) AROUND ALL DROP INLETS ON SITE
- (e). CLEAR THE SITE AND STRIP AND STOCKPILE THE TOPSOIL IN THE LOCATIONS SHOWN ON THE DRAWING FOLLOWING SD 4-1
- (f). CONSTRUCT EARTHEN BANKS TO THE LOW SIDE OF PROPOSED ROADS
- (g). UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS FOR THE ROADS AND BULK EARTHWORKS
- (h). STABILISE ALL DISTURBED AREAS WITH GRASS UNTIL UNIT CONSTRUCTION
- (i). GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS
- (j). REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.

MAINTENANCE AND INSPECTION

THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND WILL:

- ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS
- REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS
- ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS APPROPRIATE;
- CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS, I.E. MAKE ONGOING CHANGES TO THIS DRAWING WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT
- MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED
- REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.



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B	DA ISSUE	29/10/24			
A	TOWN PLANNING ISSUE	31/07/24			
P1	PRELIMINARY ISSUE	02/05/24			
NO	REVISION	DATE	NO	REVISION	DATE

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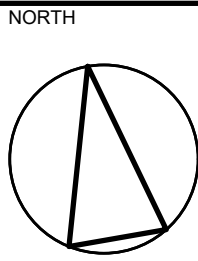
Lanigan Civil
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Tel: 03 9558 4380 Fax: 03 9587 9707
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SOIL AND EROSION
MANAGEMENT PLAN

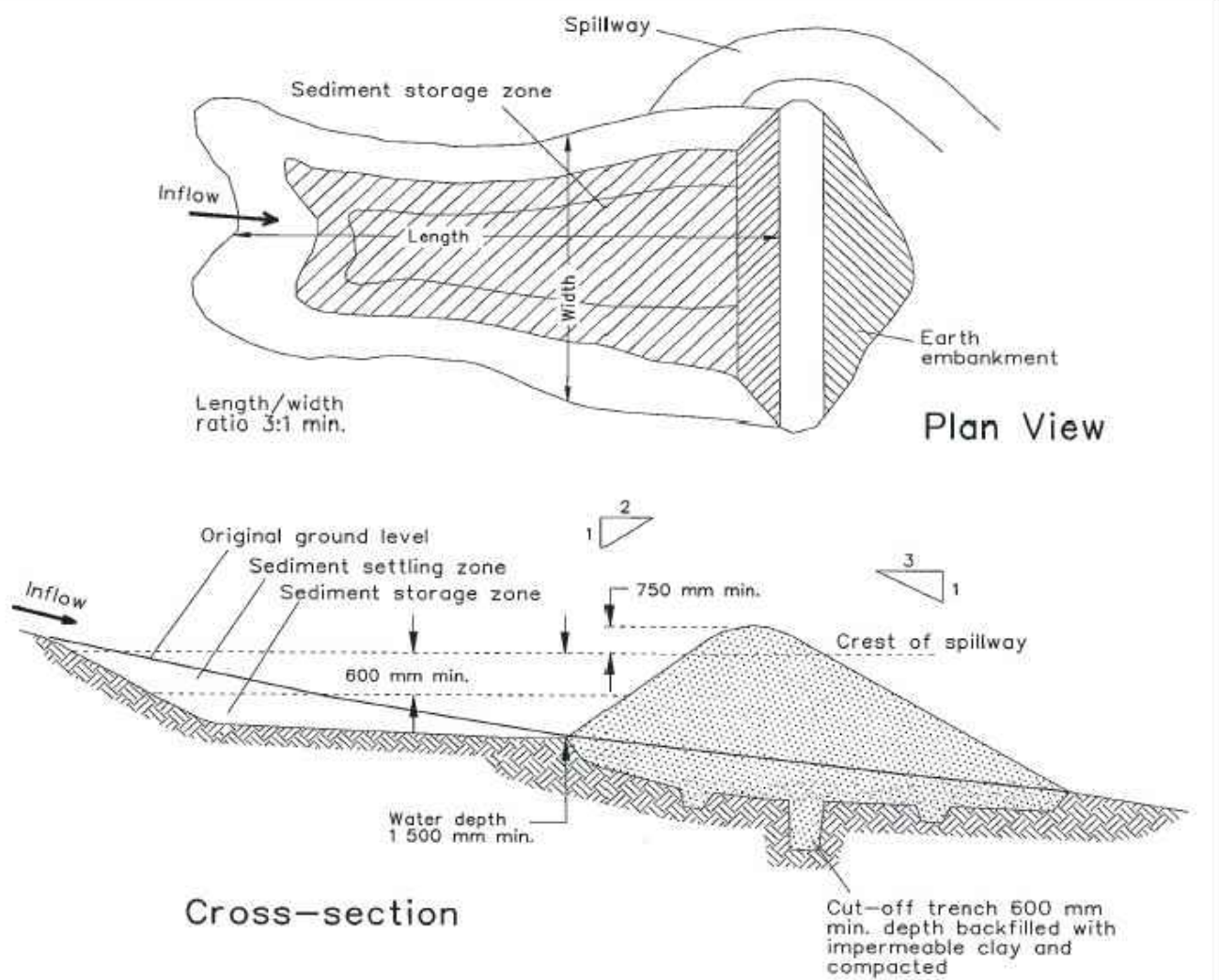
SHEET 1 OF 2

HUNTLEE
AGED CARE FACILITY

107 KESTERTON RISE, BRANXTON,
NSW, 2335



DESIGNED	DRAWN	CHECKED
MJL	MJL	NJC
DATE	SCALE/S	AS NOTED
27-07-23		
DRG NO	ISSUE	
LC2667-SEMP1	B	

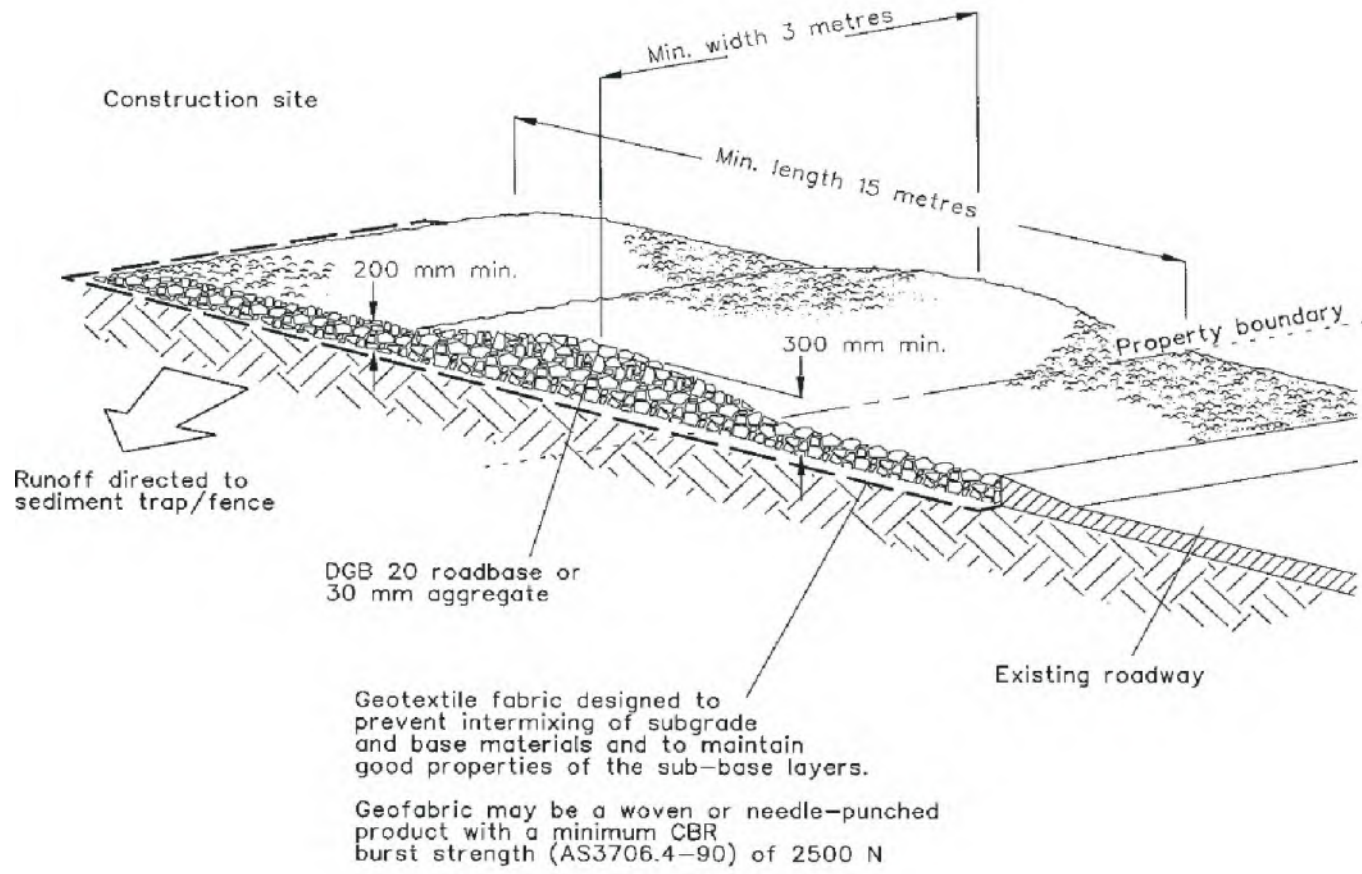


Construction Notes

1. Remove all vegetation and topsoil from under the dam wall and from within the storage area.
2. Construct a cut-off trench 500 mm deep and 1,200 mm wide along the centreline of the embankment extending to a point on the gully wall level with the riser crest.
3. Maintain the trench free of water and recompact the materials with equipment as specified in the SWMP to 95 per cent Standard Proctor Density.
4. Select fill following the SWMP that is free of roots, wood, rock, large stone or foreign material.
5. Prepare the site under the embankment by ripping to at least 100 mm to help bond compacted fill to the existing substrate.
6. Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
7. Construct the emergency spillway.
8. Rehabilitate the structure following the SWMP.

EARTH BASIN - WET
(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)

SD 6-4

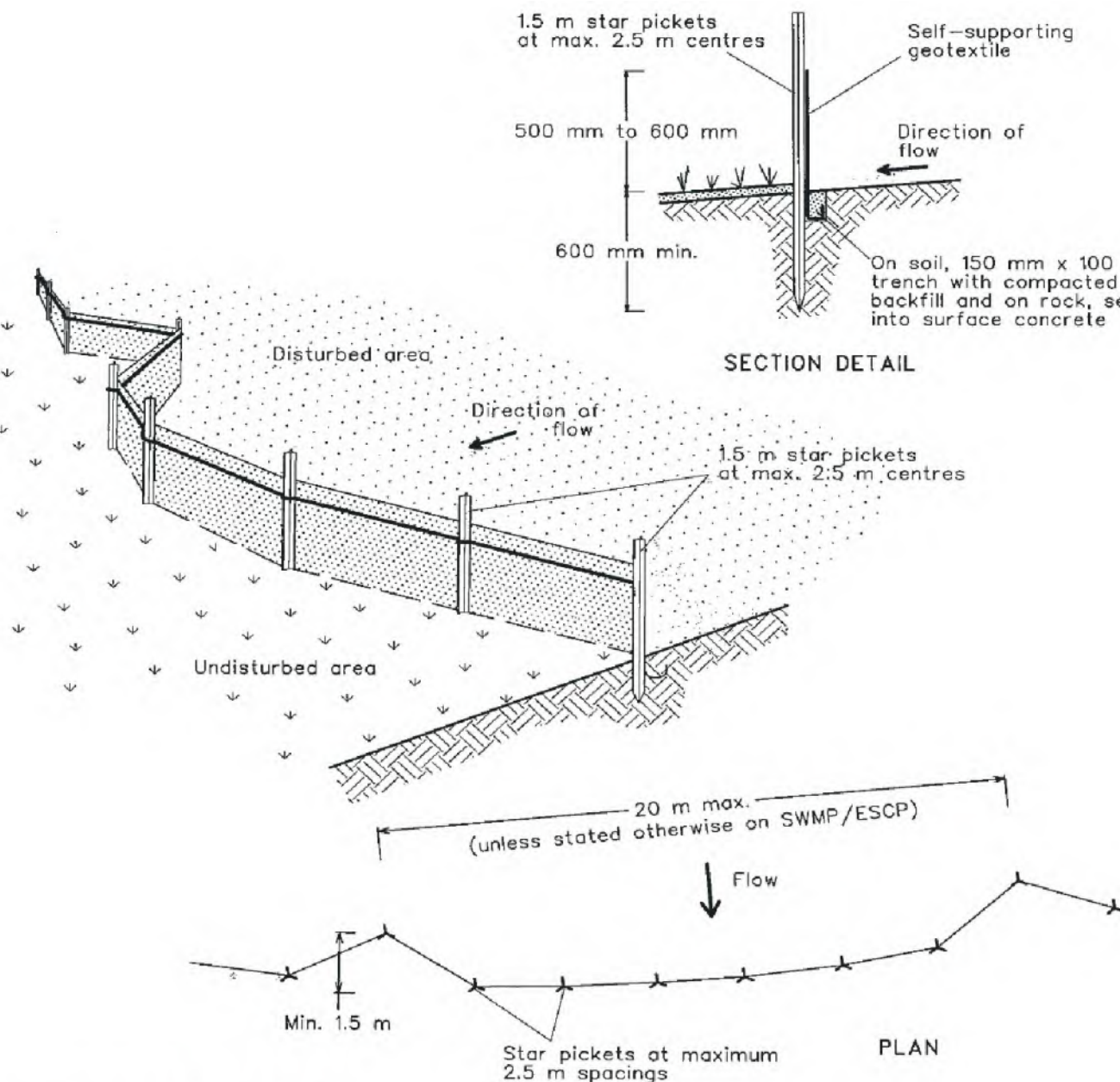


Construction Notes

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

STABILISED SITE ACCESS

SD 6-14

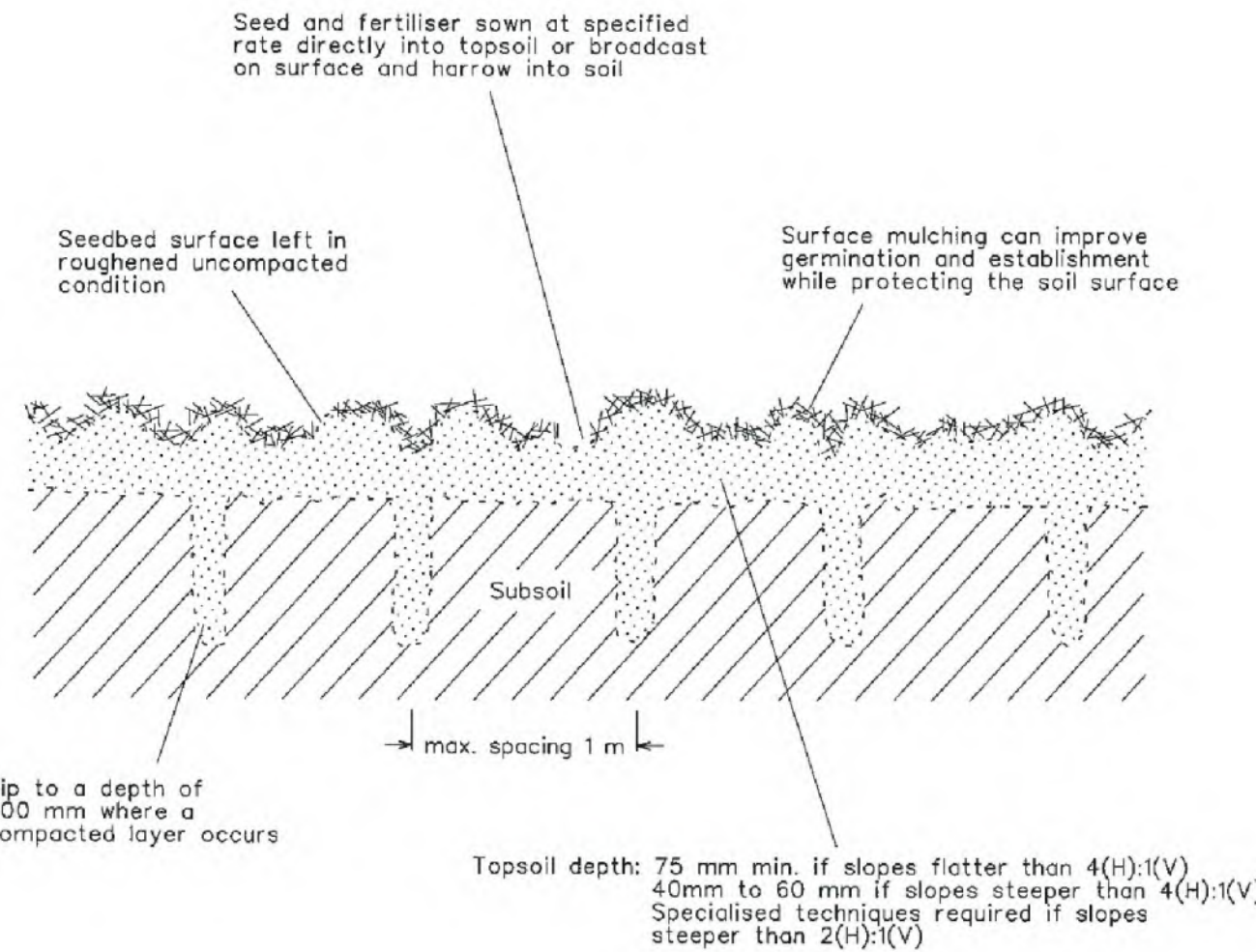


Construction Notes

1. Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
4. Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
5. Join sections of fabric at a support post with a 150-mm overlap.
6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

SD 6-8

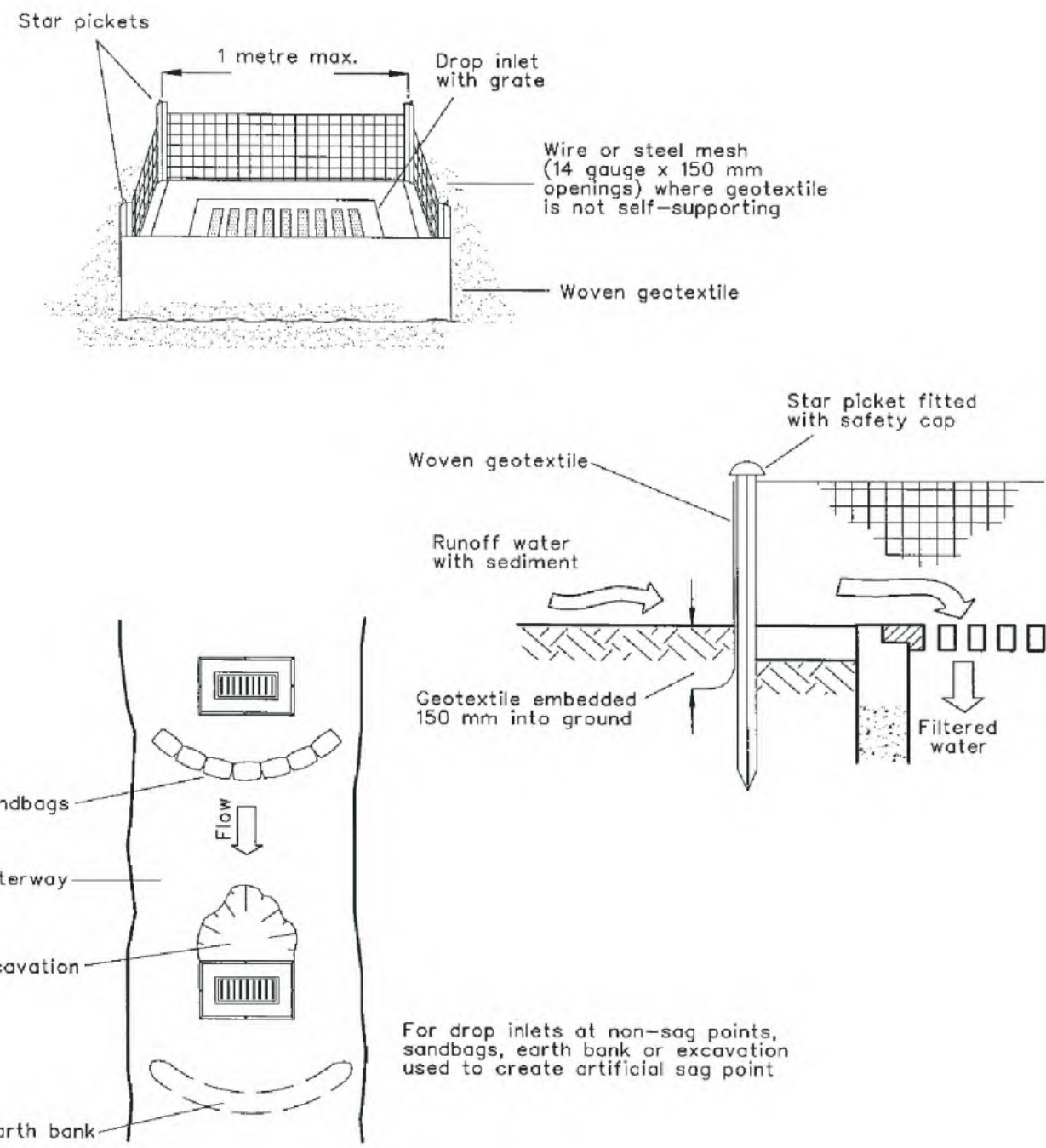


Construction Notes

1. Loosen compacted soil before sowing any seed. If necessary, rip the soil to a depth of 300 mm. Avoid rotary hoe cultivation.
2. Work the ground only as much as necessary to achieve the desired tilth and prepare a good seedbed.
3. Avoid cultivation in very wet or very dry conditions.
4. Cultivate on or close to the contour where possible, not up and down the slope.

SEEDBED PREPARATION

SD 7-1

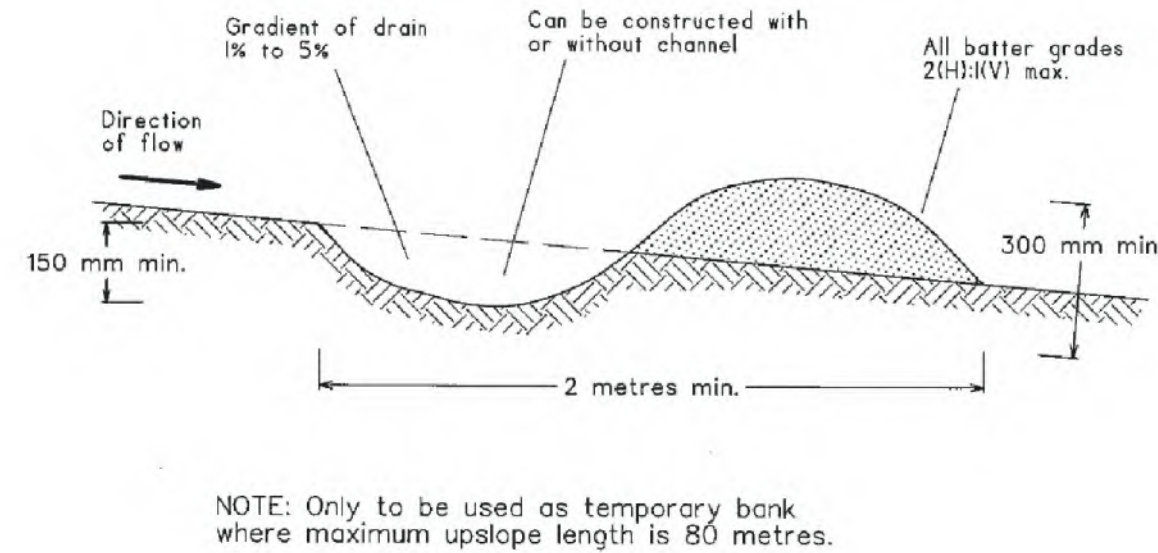


Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER

SD 6-12

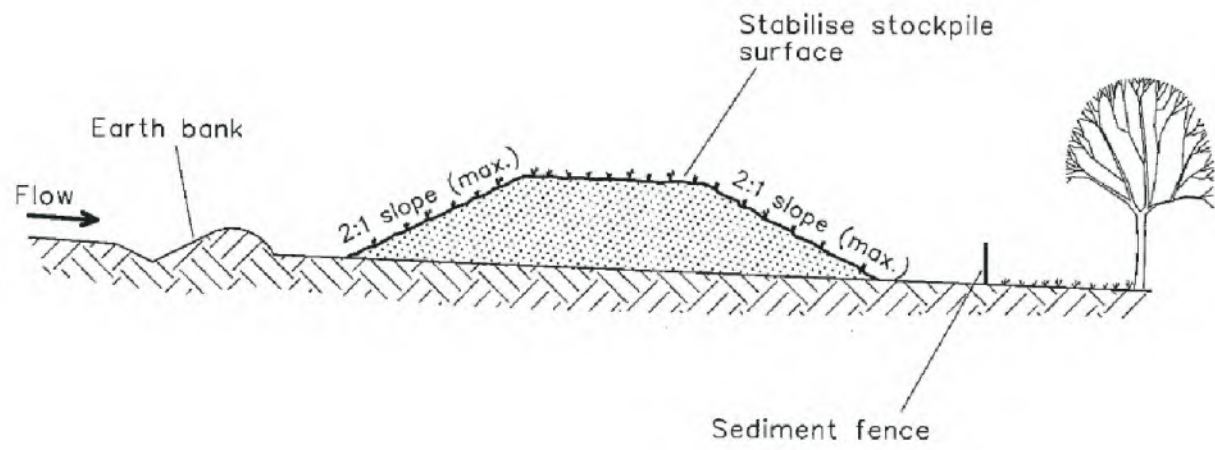


Construction Notes

1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-5

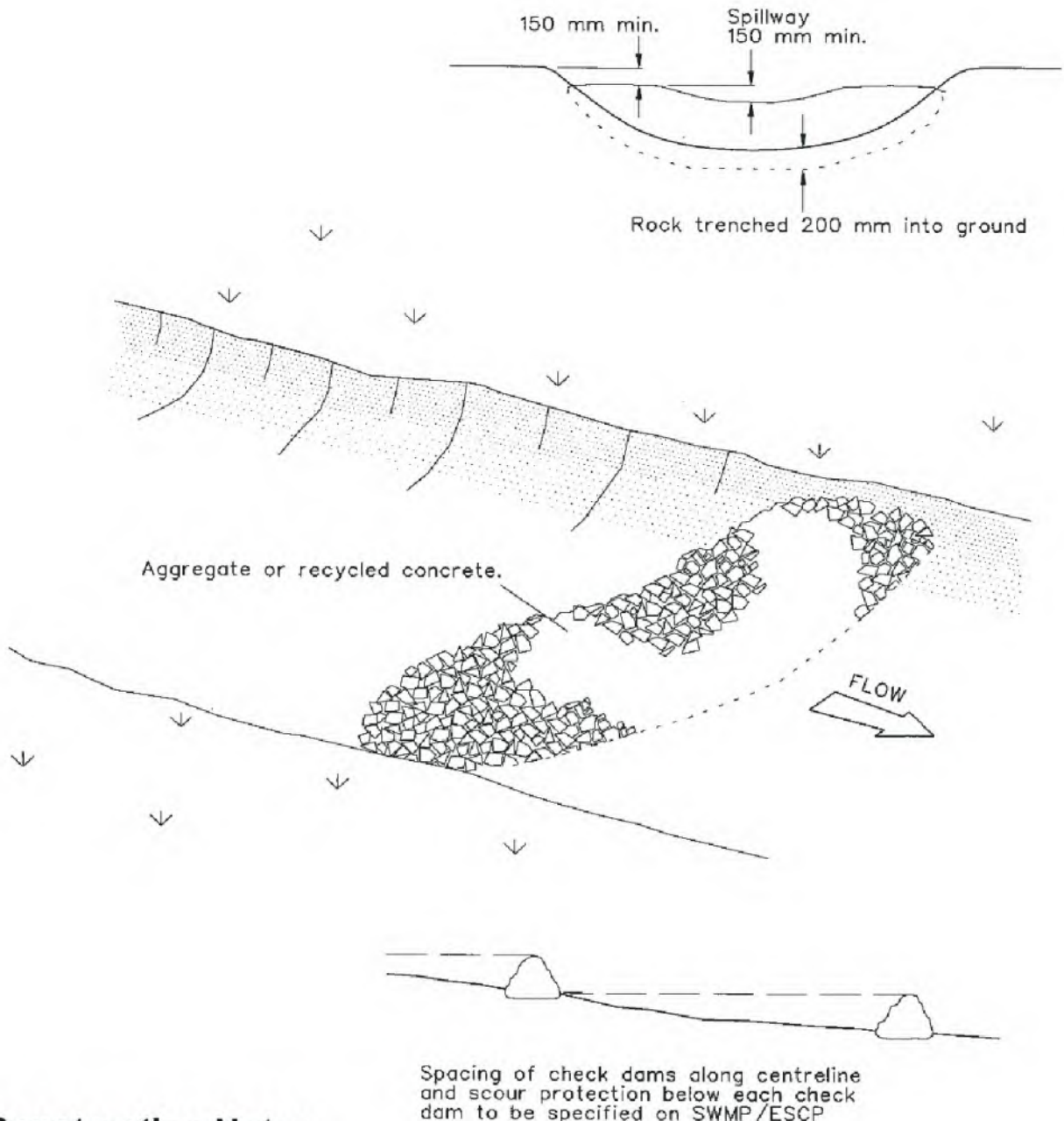


Construction Notes

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES

SD 4-1



Construction Notes

1. Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months.
2. Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting.
3. Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should act as a spillway, being at least 150 mm lower than the outer edges.
4. Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.

ROCK CHECK DAM

SD 5-4

B	DA ISSUE	29/10/24			
A	TOWN PLANNING ISSUE	31/07/24			
P1	PRELIMINARY ISSUE	02/05/24			
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SOIL AND EROSION
MANAGEMENT PLAN

SHEET 2 OF 2

HUNTLEE
AGED CARE FACILITY

107 KESTERTON RISE, BRANXTON,
NSW, 2335

NORTH	DESIGNED MJL	DRAWN MJL	CHECKED NJC
	DATE 27-07-23	SCALE/S	AS NOTED
	DRG NO LC2667-SEMP2	ISSUE B	



STORMWATER MANAGEMENT PLAN

WSUD

URBAN STORMWATER BEST PRACTICE ENVIRONMENTAL GUIDELINES HAVE BEEN ALLOWED FOR IN OVERALL SUBDIVISION WORKS BY OTHERS.

ON-SITE DETENTION

ON-SITE DETENTION REQUIREMENTS HAVE BEEN ALLOWED FOR IN OVERALL SUBDIVISION WORKS BY OTHERS.

DRAINAGE DESIGN PARAMETERS:

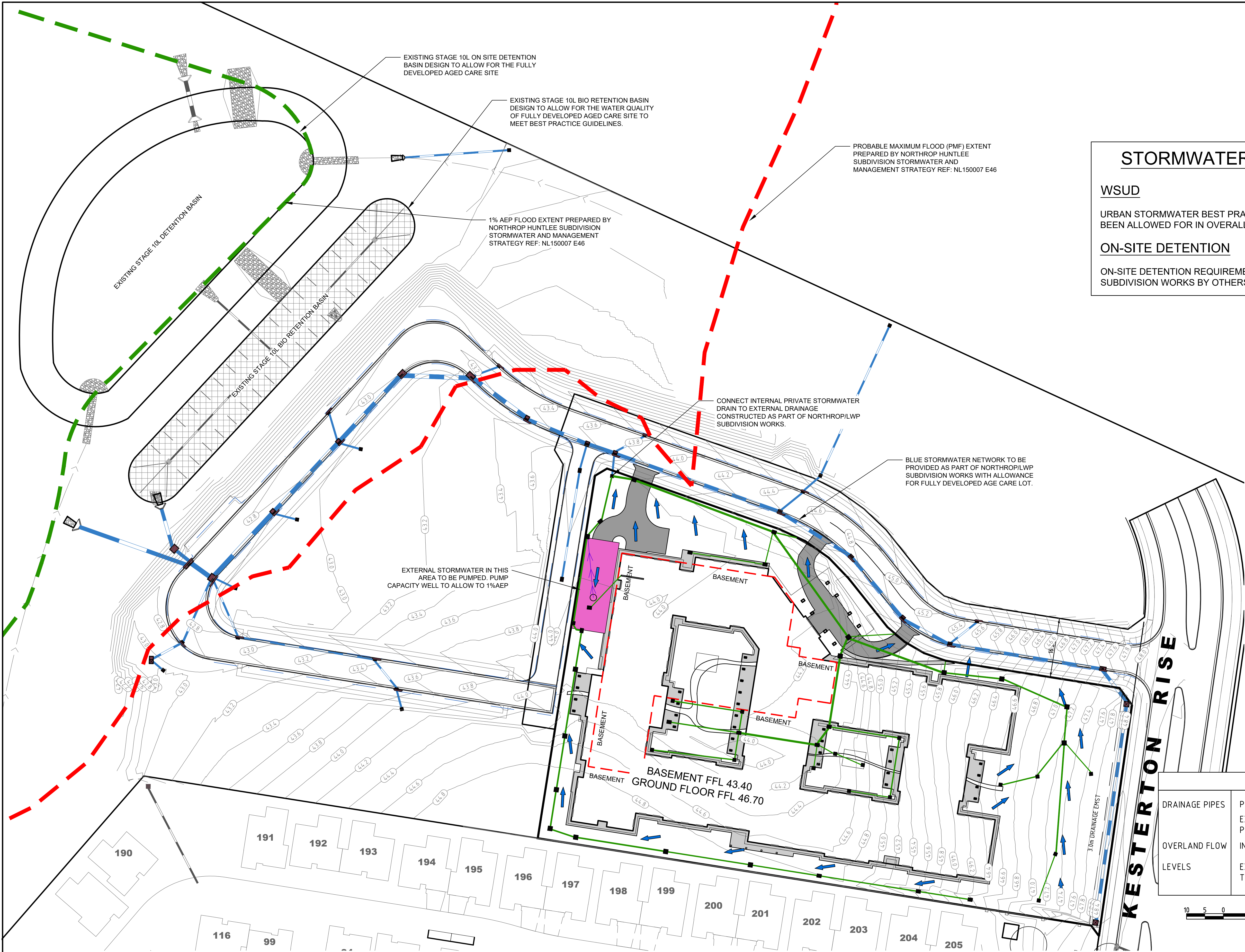
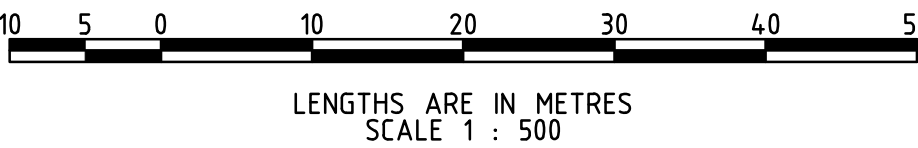
MINOR FLOWS:
10% AEP UNDERGROUND PIPED DRAINAGE NETWORK DIRECTED TO STORMWATER NETWORK AT NORTH WEST CORNER OF THE SITE.

MAJOR FLOWS:
1% AEP THE OVERLAND FLOW PATH EXITING THE SITE. TRAPPED LOWPOINTS AND INTERNAL COURT YARDS TO BE ALLOWED FOR 1% AEP.

SITE AREA:
12430m²

LEGEND

DRAINAGE PIPES	PROPOSED PRIVATE DRAIN (10%AEP)	
	EXTERNAL DRAINAGE CONSTRUCTED AS PART OF SUBDIVISION WORKS BY OTHERS	
OVERLAND FLOW	INDICATED BY FLOW ARROWS ON PLAN	
LEVELS	EXISTING CONTOURS AT THE COMPLETION OF THE SUBDIVISION AND EXTERNAL ROAD WORKS	



B	DA ISSUE	29/10/24			
A	AMENDED STOMWATER DRAINAGE LAYOUT	31/07/24			
P3	PRELIMINARY ISSUE	03/05/24			
P2	PRELIMINARY ISSUE - PRE DA	15/08/23			
P1	PRELIMINARY ISSUE	28/07/23			
NO	REVISION	DATE	NO	REVISION	DATE

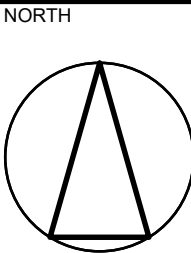
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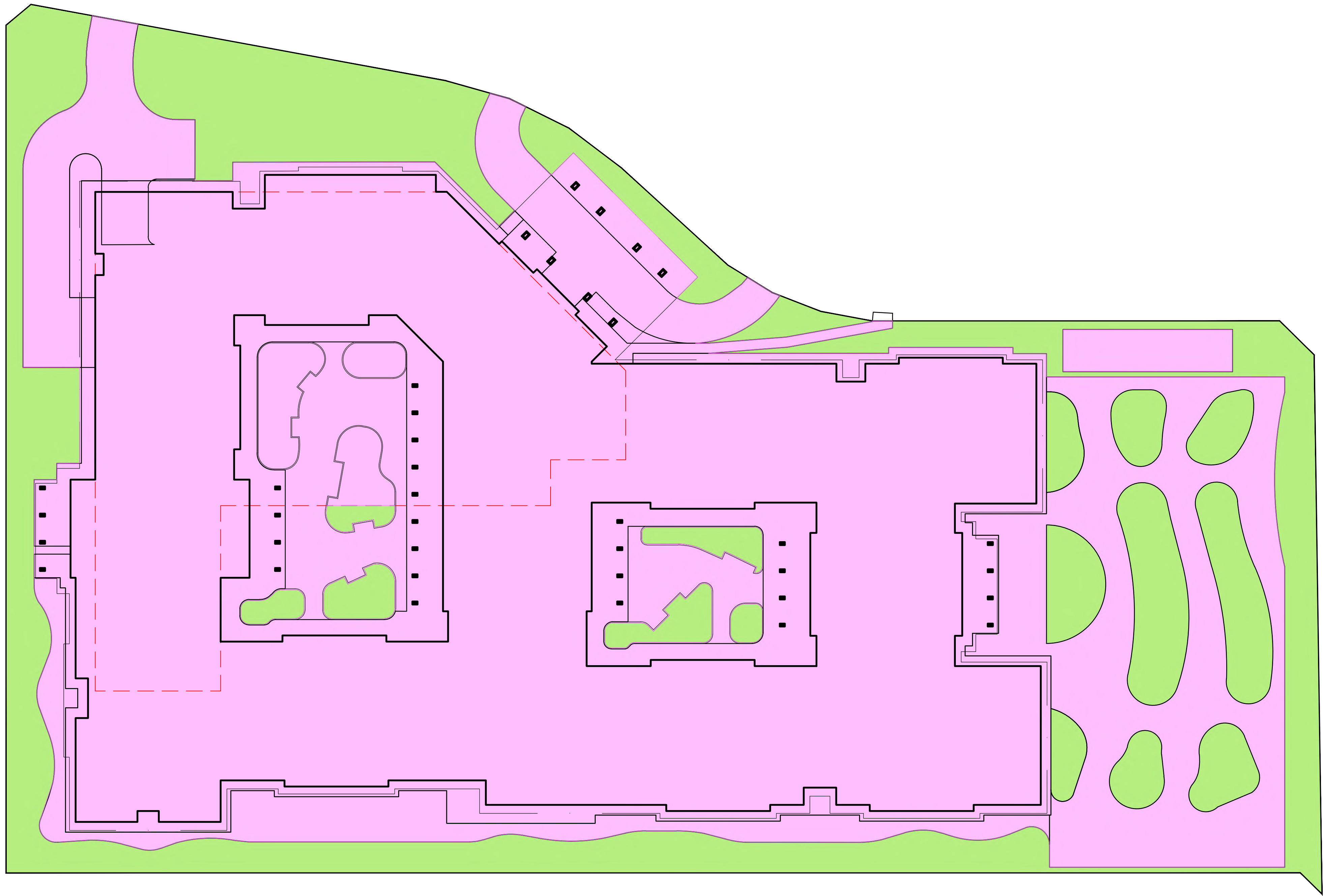
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Tel: 03 9558 4380 Fax: 03 9587 9707
Email: admin@lanicivil.com.au

STORMWATER
MANAGEMENT PLAN

HUNTLEE ARcare
107 KESTERTON RISE
BRANXTON, NSW, 2335



DESIGNED NJC	DRAWN MJL	CHECKED NJC
DATE 27-07-23	SCALE/S AS NOTED	ISSUE LC2667-SMP1
DRG NO LC2667-SMP1		ISSUE B



CATCHMENT AREAS:

PLAN COLOUR	CATCHMENT TYPE	AREA m ²
Pink	IMPERVIOUS AREAS	9,538
Green	PERVIOUS AREAS	2,896
	TOTAL SITE AREA	12,434

IMPERVIOUS AREA PERCENTAGE:

$$A_{imp} = \frac{9538}{12434} \times 100 = 76.71\%$$

THEREFORE THE FRACTION OF IMPERVIOUS AREA = 76.71%

IMPERVIOUS AREAS CATCHMENT PLAN



LENGTHS ARE IN METRES
SCALE 1 : 300 @ A1



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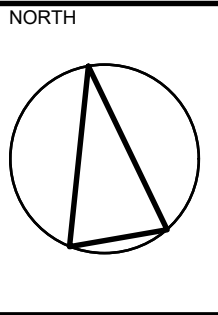
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Email: admin@lanivil.com.au

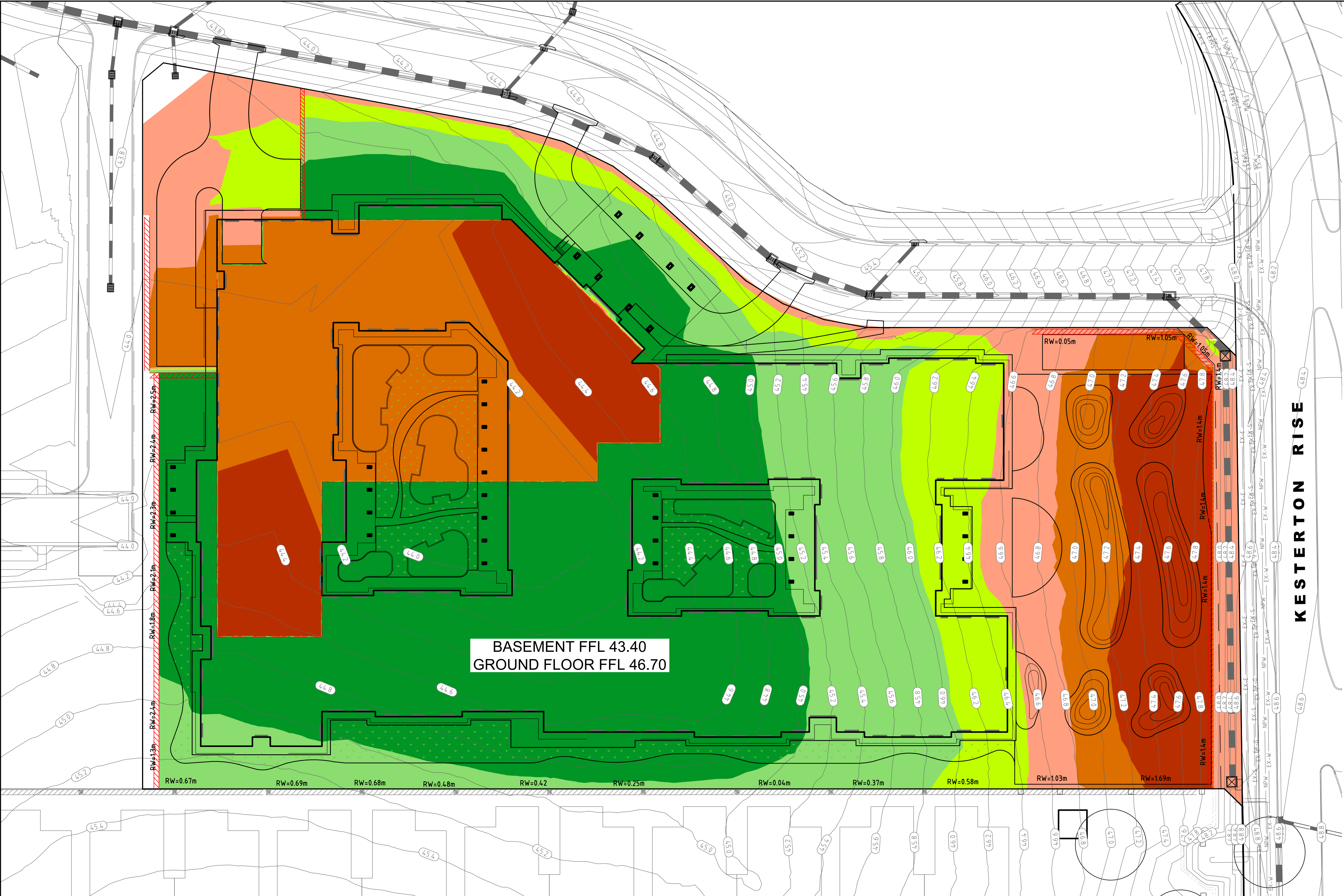
IMPERVIOUS AREAS
CATCHMENT PLAN

HUNTLEE
AGED CARE FACILITY

107 KESTERTON RISE, BRANXTON,
NSW, 2335



DESIGNED MJL	DRAWN MJL	CHECKED NJC
DATE 27-07-23	SCALE/S AS NOTED	ISSUE A
DRG NO LC2667-SMP2		



Earthworks Depth Table			
Min. Depth	Max. Depth	Colour	
-1.80	-1.00		CUT
-1.00	-0.50		
-0.50	0.00		
0.00	0.50		
0.50	1.50		FILL
1.50	2.60		

CUT/FILL SUMMARY			
	CUT	FILL	NET
STRIPPING	1,865m ³		1,865m <CUT>
EARTHWORKS	3,900m ³	10,725m ³	6,825m ³ <FILL>

- ASSUMPTION:
- EXISTING SURFACE TO BE STRIPPED BY 150mm
 - BASEMENT CUT LEVEL IS BASED ON FINISHED FLOOR LEVEL SUBTRACT 300mm
 - GROUND FLOOR CUT LEVEL IS BASED ON THE FINISHED FLOOR LEVEL SUBTRACT 300mm
 - DRIVEWAY CUT LEVELS IS BASED ON FINISHED SURFACE LEVELS SUBTRACT 300mm

B	DA ISSUE	29/10/24			
A	TOWN PLANNING ISSUE	31/07/24			
P2	AMENDED PRELIMINARY ISSUE	03/05/24			
P1	PRELIMINARY ISSUE	28/08/23			
NO	REVISION	DATE	NO	REVISION	DATE

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EARTHWORKS PLAN

**HUNTLEE
AGED CARE FACILITY**
107 KESTERTON RISE, BRANXTON,
NSW, 2335

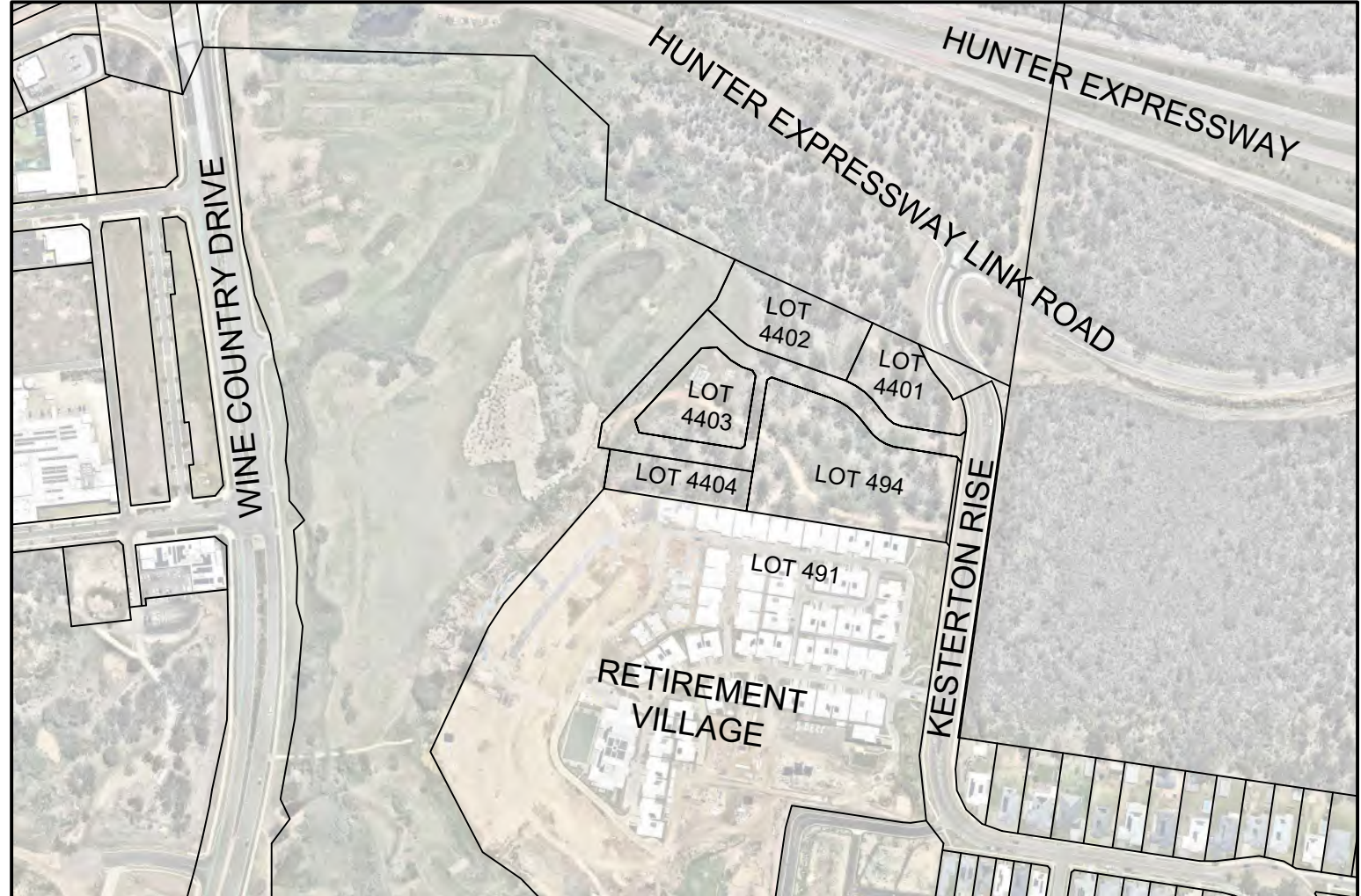
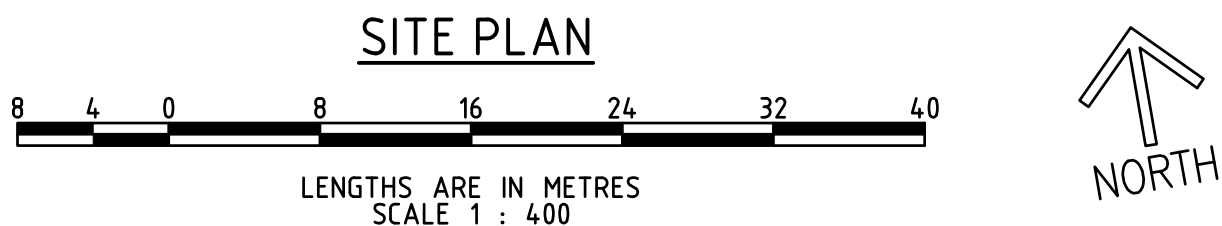
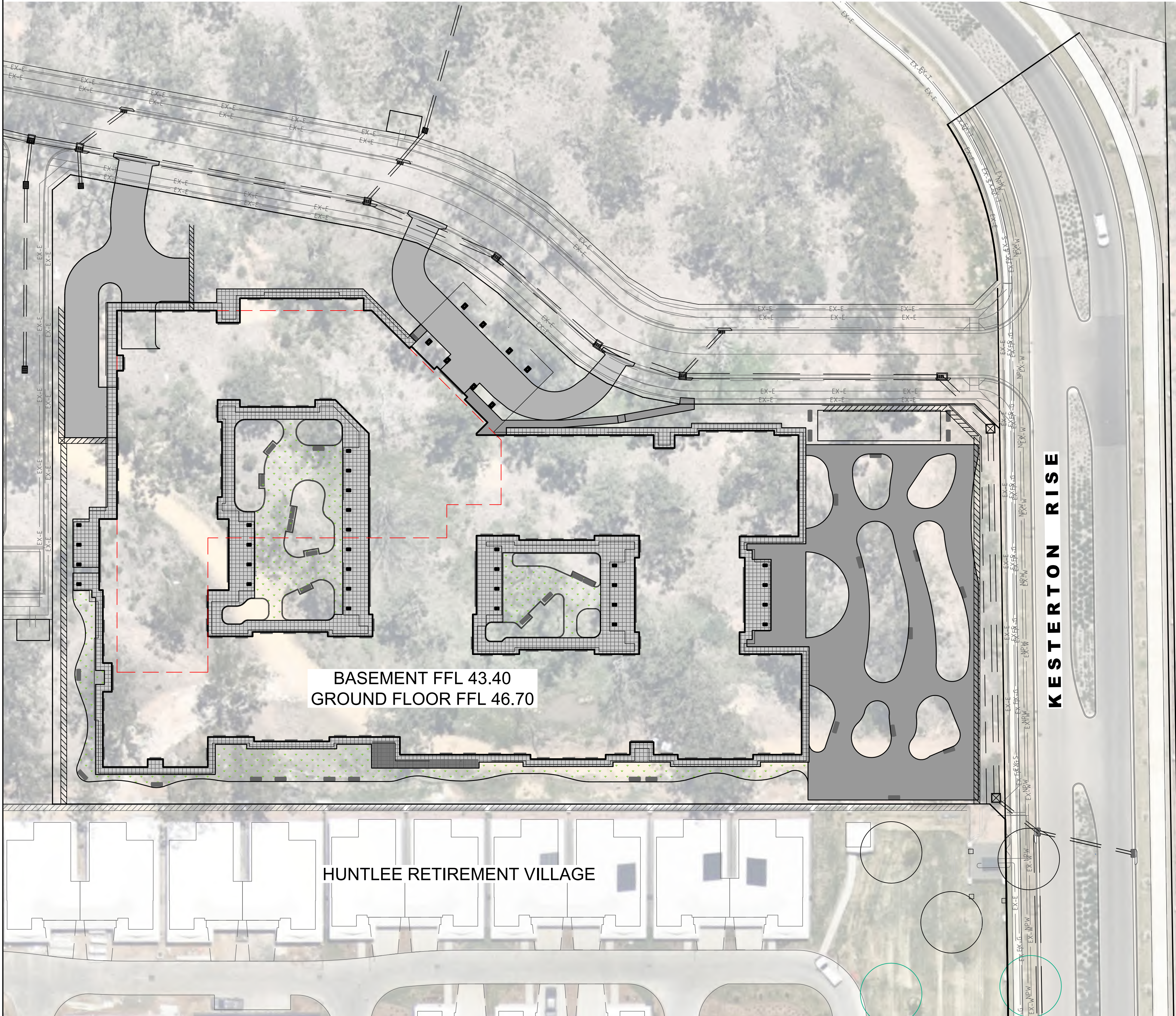
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DATE 27-07-23	SCALE/S AS NOTED	ISSUE B
DRG NO LC2667-EW1		

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ANY WORKS.

HUNTLEE AGED CARE FACILITY

107 KESTERTON RISE, BRANXTON, NSW 2335

INTERNAL CIVIL DRAWINGS



LOCALITY PLAN
N.T.S.

NORTH

DRAWING INDEX

NO.	DRAWING TITLE
C01	FACE SHEET, LOCALITY PLAN AND GENERAL NOTES
C02	PAVEMENT PLAN (1:300)
C03A	SITE PLAN (1:300)
C03	DETAIL PLAN 1 OF 8 (1:100)
C04	DETAIL PLAN 2 OF 8 (1:100)
C05	DETAIL PLAN 3 OF 8 (1:100)
C06	DETAIL PLAN 4 OF 8 (1:100)
C07	DETAIL PLAN 5 OF 8 (1:100)
C08	DETAIL PLAN 6 OF 8 (1:100)
C09	DETAIL PLAN 7 OF 8 (1:100)
C10	DETAIL PLAN 8 OF 8 (1:100)
C11	STORMWATER LONGITUDINAL SECTION 1 OF 2
C12	STORMWATER LONGITUDINAL SECTION 2 OF 2
C13	STORMWATER PIT SCHEDULE
C14	STORMWATER DETAILS
C15	TYPICAL SECTIONS SHEET 1 OF 3 - WESTERN BOUNDARY
C16	TYPICAL SECTIONS SHEET 2 OF 3 - SOUTHERN BOUNDARY
C17	TYPICAL SECTIONS SHEET 3 OF 3 - EASTERN BOUNDARY

PRIOR TO COMMENCEMENT OF ANY WORKS ON SITE

- PRIOR TO THE COMMENCEMENT OF BUILDING WORKS ON SITE, THE BUILDER/CONTRACTOR MUST VERIFY THE FEASIBILITY OF THE OUTFALL STORMWATER DRAINAGE SYSTEM/S TO THE LEGAL POINT OF DISCHARGE AS DOCUMENTED BY:
 - VERIFICATION OF THE INVERT LEVEL OF THE DRAIN FORMING THE LEGAL POINT OF DISCHARGE.
 - VERIFICATION THAT THE ROUTE FROM THE SITE TO THE LEGAL POINT/S OF DISCHARGE IS CLEAR OF ALL OTHER AUTHORITY SERVICES, (INCLUDING SPECIFIED AUTHORITY CLEARANCES).IF EITHER OF THE ABOVE CANNOT BE VERIFIED, THE BUILDER/CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT MANAGER OR CONSULTING CIVIL ENGINEER.
- PRIOR TO THE COMMENCEMENT OF ANY WORKS, THE BUILDER/CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES, NOTIFY THE AUTHORITIES RESPONSIBLE FOR THOSE SERVICES AND COMPLY WITH ALL OF THE REQUIREMENTS OF THOSE AUTHORITIES.

IMPORTANT NOTE TO BUILDER:

BUILDER TO ENSURE ANY WORKS UNDERTAKEN WITHIN THE ROAD RESERVE RESPECT THE REQUIREMENTS OF COUNCIL AND ALL OTHER AUTHORITIES WITH REGARD TO THE PROTECTION OF AND MINIMUM CLEARANCES REQUIRED TO EXISTING SERVICES.

GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL & OTHER CONSULTANTS' DRAWINGS & SPECIFICATIONS & 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.
- MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT S.A.A. CODES.
- THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORKS.
- THESE DRAWINGS MUST NOT BE SCALED.
- ALL DIMENSIONS & REDUCED LEVELS MUST BE VERIFIED ON SITE BEFORE THE COMMENCEMENT OF ANY WORK.
- SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.
- ALL LEVELS SHOWN ARE TO AUSTRALIAN HEIGHT DATUM.
- SERVICE INFORMATION SHOWN IS BASED ON PLANS SUPPLIED BY AUTHORITIES & IS APPROXIMATE ONLY. PRIOR TO THE COMMENCEMENT OF ANY WORKS, THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES & COMPLY WITH ALL OF THE REQUIREMENTS OF THOSE AUTHORITIES.
- EXISTING SURFACE CONTOURS, WHERE SHOWN, ARE INTERPOLATED & MAY NOT BE ACCURATE.
- UNLESS OTHERWISE NOTED, ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150mm UNDER ALL PROPOSED PAVEMENT & BUILDING AREAS.
- PRIOR TO THE PLACEMENT OF ANY FILLS, PAVEMENTS OR BUILDINGS, THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION IN ACCORDANCE WITH TEST E11 OF AS1289 FOR THE TOP 300mm. ANY SOFT SPOTS SHALL BE REMOVED & REPLACED WITH GRANULAR FILL TO THE ENGINEER'S APPROVAL & COMPACTED IN ACCORDANCE WITH THE COMPACTION REQUIREMENTS SET OUT BELOW.
- ANY FILL REQUIRED SHALL BE APPROVED BY THE ENGINEER.
- ALL FILL & PAVEMENT MATERIALS SHALL BE COMPACTED IN 200mm MAXIMUM LOOSE THICKNESS LAYERS TO THE DENSITIES SPECIFIED BELOW.

LANDSCAPED AREAS 90% STD.

FILL UNDER FOOTINGS & FLOOR SLABS FOR ANY STRUCTURE

 - FINE CRUSHED ROCK 95% MOD.
 - OTHER FILL 98% STD. AND AS PER AS 3798-2007.

FILL UNDER ROAD PAVEMENTS

 - FINE CRUSHED ROCK 95% MOD.
 - OTHER FILL 98% STD.

ROAD PAVEMENT MATERIALS

 - SUB-BASE 95% MOD.
 - BASE COURSE 98% MOD.
- GRADE EVENLY BETWEEN FINISHED SURFACE SPOT LEVELS (FINISHED SURFACE CONTOURS ARE SHOWN FOR CLARITY). WHERE FINISHED SURFACE LEVELS ARE NOT SHOWN, THE SURFACE SHALL BE GRADED SMOOTHLY SO THAT IT WILL DRAIN & TO MATCH ADJACENT SURFACES OR STRUCTURES.
- STORMWATER TO BE IN ACCORDANCE WITH AS3500 - NATIONAL PLUMBING & DRAINAGE CODE.
- INSPECTION OPENINGS FOR THE MAINTENANCE OF SITE STORMWATER DRAINS SHALL BE EXTENDED TO & CAPPED AT THE FINISHED SURFACE LEVEL & BE INSTALLED AT:
 - EACH POINT OF CONNECTION.
 - SPACINGS NOT MORE THAN 30m.
 - ANY CHANGE OF DIRECTION GREATER THAN 45°.
 - AS ADDITIONALLY INDICATED ON THE DRAWINGS.
 - BENDS & ENDS OF ALL A.G. DRAINS (WITH FLUSH OUT RISERS).
- IO CAPS MUST HAVE A LOAD CAPACITY FOR AREA OF USE, I.E. SCREWED PLASTIC IN LANDSCAPED AREAS & CAST IRON IN PAVEMENT.
- UNLESS OTHERWISE NOTED, ALL DOWNPIPES SHALL BE CONNECTED TO PITS OR MAIN STORMWATER DRAINS WITH UPVC OR STORMPRO PIPES OF THE FOLLOWING SIZES LAID AT A MINIMUM GRADE OF 1 IN 100.
 - 100Ø FOR DOMESTIC CONSTRUCTION.
 - 150Ø FOR COMMERCIAL / INDUSTRIAL CONSTRUCTION.
- ALL MAIN STORMWATER DRAINS SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING TYPES OF PIPES WITH RUBBER RING JOINTS:
 - UPVC IN ACCORDANCE WITH A.S.1260 (SN8 IF <150Ø) OR,
 - VINDEK "STORMPRO" IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ANY OTHER TYPES OF PIPE MUST BE REFERRED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
- GENERALLY FOR TRENCHING WORKS THE CONTRACTOR MUST:
 - COMPLY WITH THE GENERAL PROVISIONS OF SECTION 21 OF THE "OCCUPATIONAL HEALTH & SAFETY ACT".
 - COMPLY WITH THE "OCCUPATIONAL HEALTH & SAFETY CODE OF PRACTICE FOR SAFETY PRECAUTIONS IN TRENCHING OPERATIONS".
- PRIOR TO THE EXCAVATION OF ANY TRENCH DEEPER THAN 15 METRES THE CONTRACTOR MUST:
 - NOTIFY THE OCCUPATIONAL HEALTH & SAFETY AUTHORITY ON THE APPROPRIATE FORM.
 - NOMINATE THE MINE MANAGER FOR THE PROJECT.
 - CARRY OUT ALL EXCAVATION WORKS IN ACCORDANCE WITH THE REQUIREMENTS OF THE "MINES ACT 1958 REGULATIONS & STATUTORY RULES".
- ALL DIMENSIONS GIVEN ARE TO FACE OF KERB, CENTRE OF PIPE OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DIRTIED OR MADE UNSERVICEABLE DUE TO CONSTRUCTION WORK SHALL BE REINSTATED TO THE SATISFACTION OF THE ENGINEER.
- ALL SURFACE WATER MUST BE DIVERTED AWAY FROM CLASS A BUILDINGS AS PER NCC BUILDING CODE OF AUSTRALIA VOLUME 2 CLAUSE 3.13.3



CONTRACTOR MUST DIAL 1100 TO CONFIRM LOCATION OF EXISTING SERVICES AND COMPLY WITH ANY AUTHORITY REQUIREMENTS REGARDING EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORKS.

NO	REVISION	DATE	NO	REVISION	DATE
A	DA ISSUE	06/11/24			
P3	COORDINATION ISSUE	17/06/24			
P2	AMENDED RETAINING WALLS	02/05/24			
P1	PRELIMINARY ISSUE	06/03/24			

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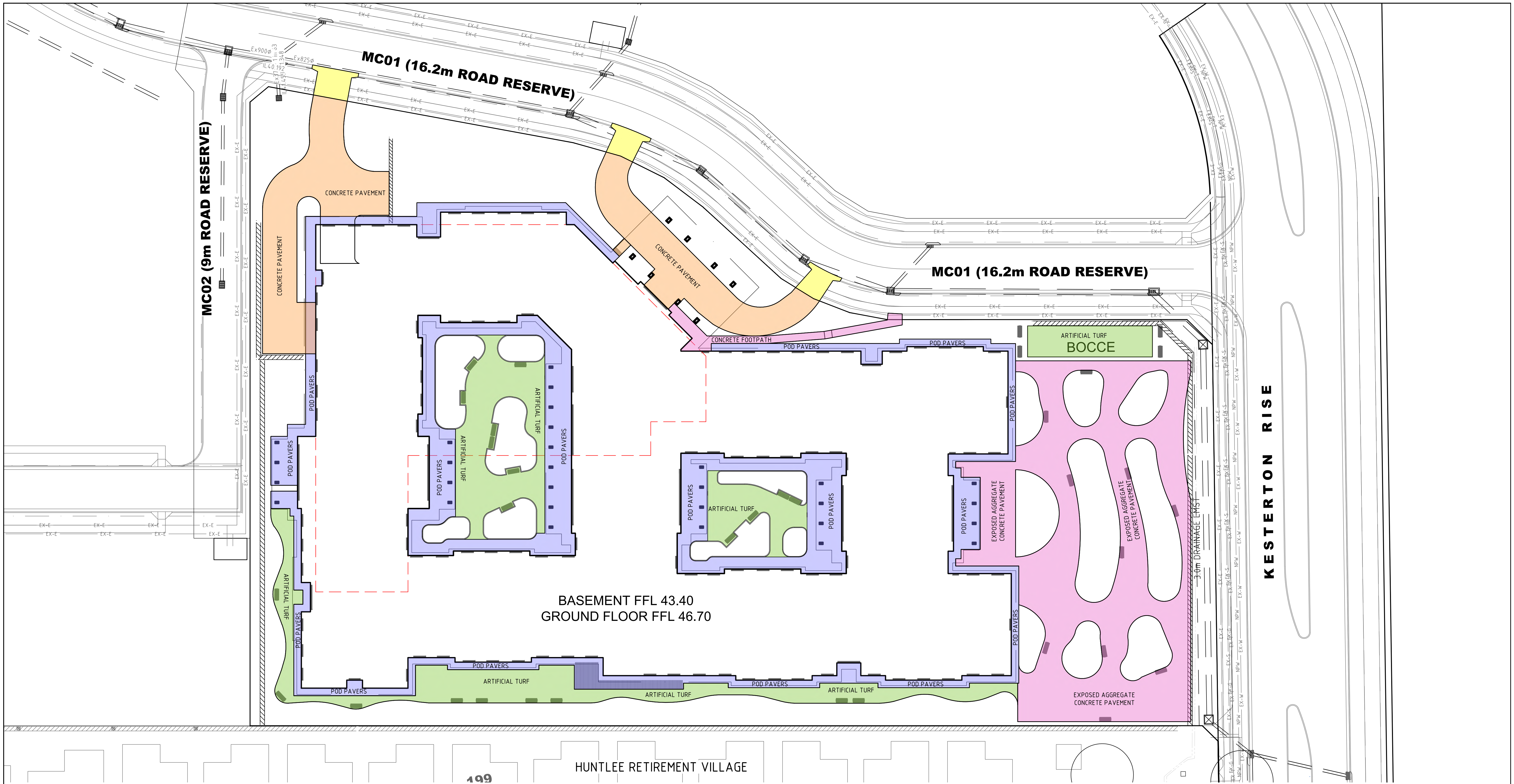
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Tel: 03 9558 4380 Fax: 03 9587 9707
Email: admin@lanicivil.com.au

FACESHEET, LOCALITY
PLAN AND GENERAL NOTES

HUNTLEE
AGED CARE FACILITY
107 KESTERTON RISE, BRANXTON,
NSW, 2335

DESIGNED	DRAWN	CHECKED
MJL	MJL	NJC
DATE	SCALE/S	AS NOTED
27-07-23		
DRG NO	ISSUE	
LC2667-C01	A	



150mm THICK SLAB REINFORCED VEHICLE CROSSING WITH F72 FABRICK TOP AND BOTTOM, 50mm COVER CONCRETE COMPRESSIVE STRENGTH TO BE 30MPa @ 28 DAYS - REFER TO CESSNOCK CITY COUNCIL STANDARD DRAWING SD2 FOR DETAILS.

POD PAVERS - REFER TO ARCHITECTURAL AND/OR LANDSCAPE DRAWINGS FOR DETAILS

ARTIFICIAL TURF - REFER TO ARCHITECTURAL AND/OR LANDSCAPE DRAWINGS FOR DETAILS

PAVEMENT PLAN

6 3 0 6 12 18 24 30

LENGTHS ARE IN METRES
SCALE 1 : 300 @ A1

100mm MINIMUM COMPACTED DEPTH OF 25MPa EXPOSED AGGREGATE COLORED CONCRETE REINFORCED WITH SL62 MESH PLACED CENTRALLY. FOR FINISH REFER TO ARCHITECTURAL/LANDSCAPE DRAWINGS FOR DETAILS.

50mm MINIMUM COMPACTED THICKNESS OF 20mm NS CLASS 2 CRUSHED ROCK.

COMPACTED SUBGRADE AS PER GENERAL NOTES - REQUIRED MINIMUM CBR OF 3%.

PROVIDE WEAKENED PLANE JOINTS (GROOVES R5) AT 2m MAXIMUM CENTRES & 12mm WIDE EXPANSION JOINTS AT 20m MAXIMUM CENTRES ALONG PATH LENGTH.

SHOWN THUS ON PLAN

EXPOSED AGGREGATE CONCRETE PAVEMENT DETAIL

NOT TO SCALE

150mm MINIMUM COMPACTED DEPTH OF 32 MPa UNREINFORCED CONCRETE.

100mm MINIMUM COMPACTED THICKNESS OF 20mm NS CLASS 2A CRUSHED ROCK.

COMPACTED SUBGRADE AS PER GENERAL NOTES - REQUIRED MINIMUM CBR OF 3%.

NOTE: ALL CRUSHED ROCK MATERIALS & CONSTRUCTION PROCEDURES SHALL COMPLY IN ALL RESPECTS WITH THE RELEVANT CURRENT VICROADS SPECIFICATIONS.

SHOWN THUS ON PLAN

CONCRETE PAVEMENT

NOT TO SCALE

A	DA ISSUE	06/11/24			
P3	COORDINATION ISSUE	17/06/24			
P2	AMENDED RETAINING WALLS	02/05/24			
P1	PRELIMINARY ISSUE	06/03/24			
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PAVEMENT PLAN

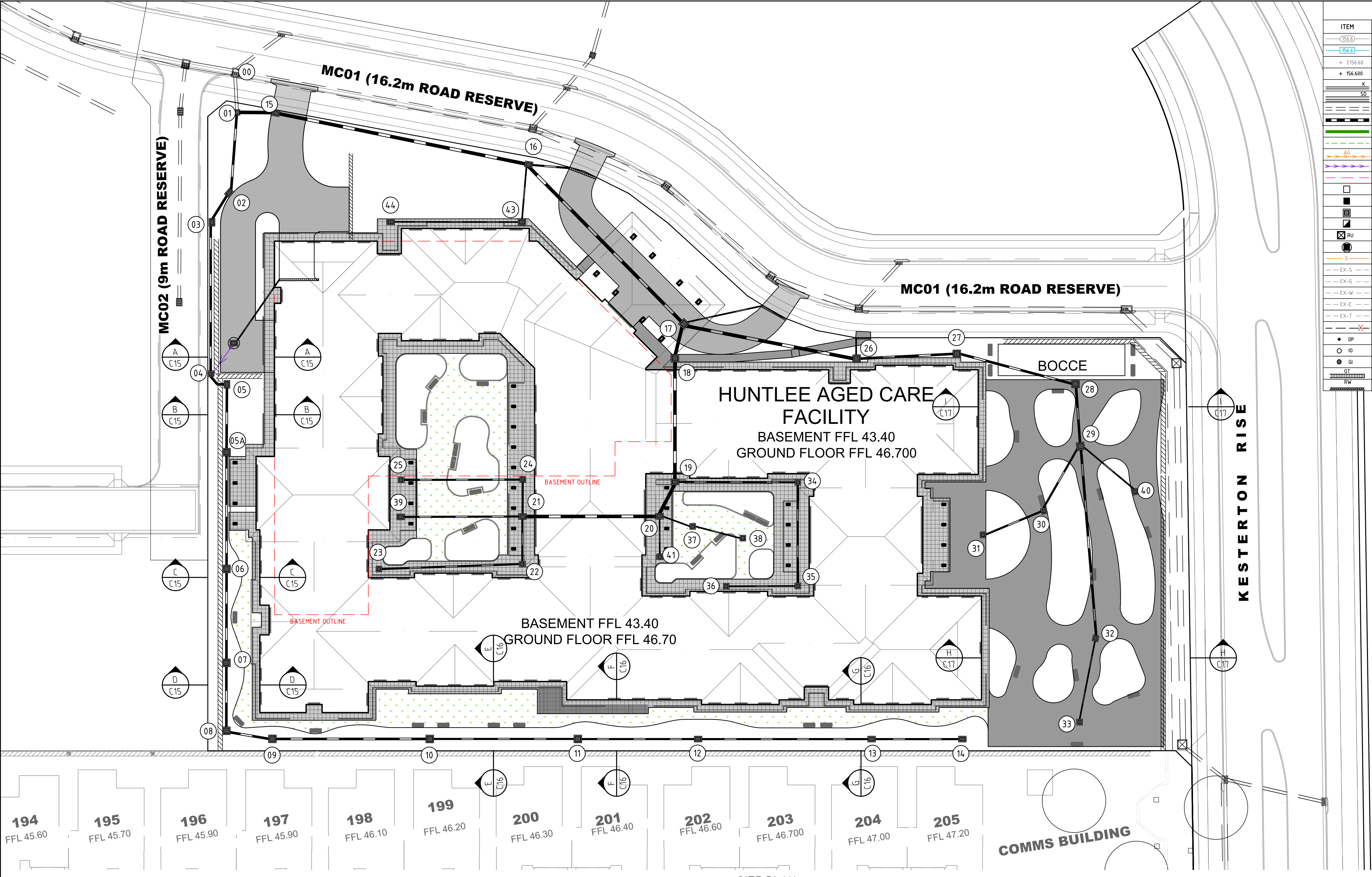
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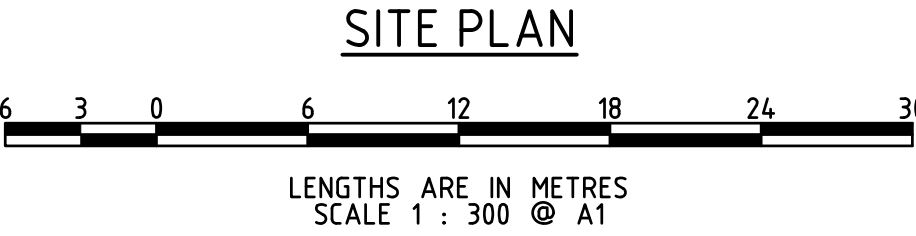
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NORTH

DESIGNED	DRAWN	CHECKED
MJL	MJL	NJC
DATE	SCALE/S	AS NOTED
27-07-23		
DRG NO	ISSUE	
LC2667-C02	A	



LEGEND	
ITEM	DESCRIPTION
	EXISTING SURFACE CONTOURS
	NEW SURFACE CONTOURS
	EXISTING SURFACE SPOT LEVELS
	FINISHED SURFACE SPOT LEVELS
	PROPOSED CONCRETE KERB
	SPOON DRAIN
	EXISTING STORMWATER DRAIN
	PROPOSED STORMWATER DRAIN
	PROPOSED 150mm SWD 1 in 100 min. connect grates inlets to SWD system
	90mm AG drain (flush out risers @ bends & ends)
	PROPOSED RISING MAIN
	PROPOSED 100mm UPVC subsoil drainage
	EXISTING STORMWATER PIT
	PROPOSED STORMWATER PIT
	PROPOSED STORMWATER PIT (GRATE)
	EXISTING STORMWATER PIT TO BE MODIFIED
	"RELN" uni pit (see detail)
	PROPOSED PUMP WELL
	PROPOSED SEWER REFER TO HYDRAULIC DRAWINGS
	EXISTING SEWER
	EXISTING UNDERGROUND GAS PIPE
	EXISTING UNDERGROUND WATER PIPE
	EXISTING ELECTRICITY SUPPLY
	EXISTING UNDERGROUND TELECOMMUNICATION CABLE
	EXISTING FEATURES TO BE REMOVED
	DOWNPIPE (PLAN LOCATION)
	INSPECTION OPENING
	GRATE INLET
	GRATE TRENCH (SEE DETAIL)
	RETAINING WALL



A	DA ISSUE	06/11/24			
P1	PRELIMINARY ISSUE	17/06/24			
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SITE PLAN
(1:300)

HUNTLEE
AGED CARE FACILITY

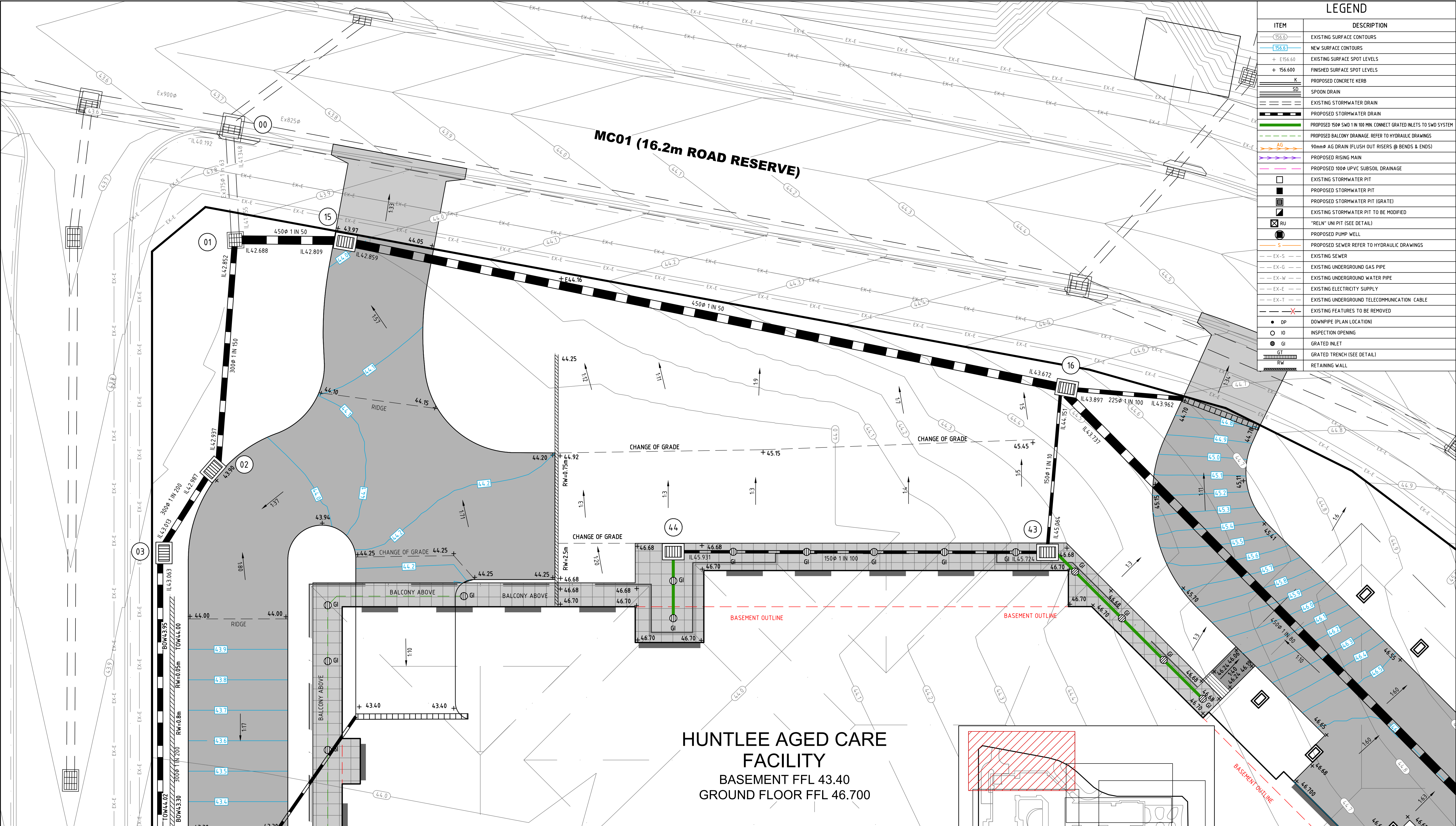
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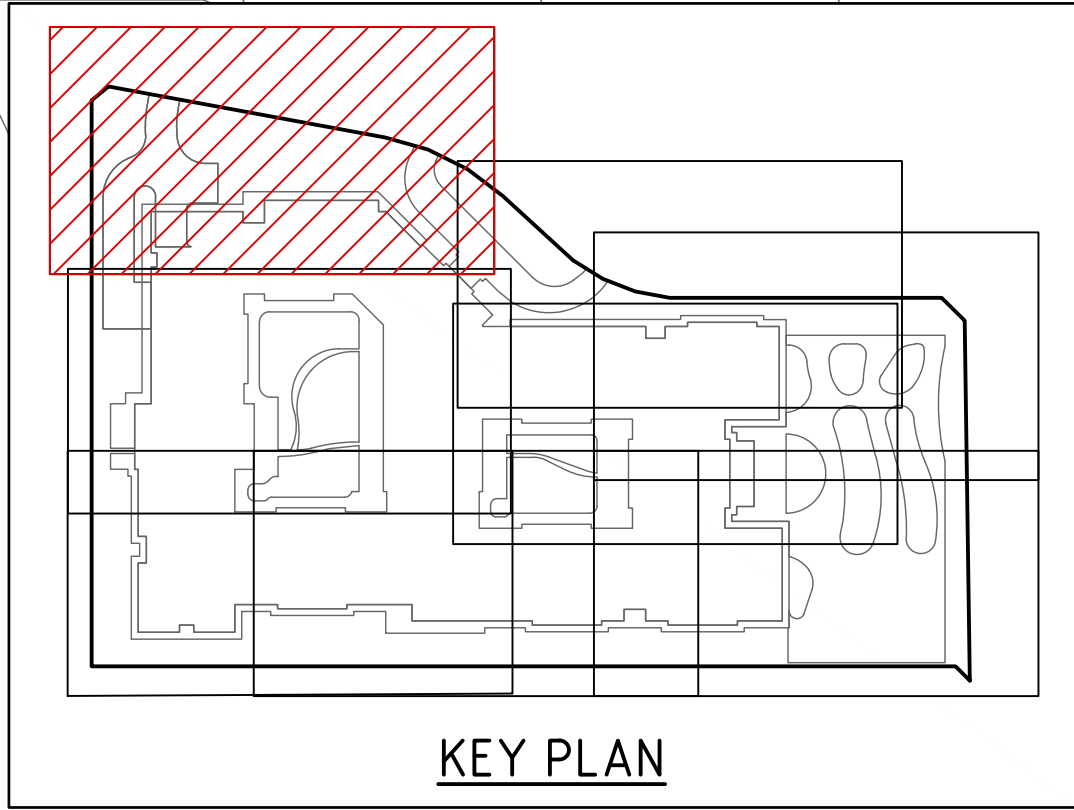
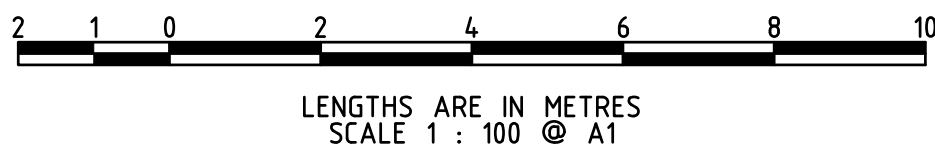
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LEGEND	
ITEM	DESCRIPTION
	EXISTING SURFACE CONTOURS
	NEW SURFACE CONTOURS
	EXISTING SURFACE SPOT LEVELS
	FINISHED SURFACE SPOT LEVELS
	PROPOSED CONCRETE KERB
	SPOON DRAIN
	EXISTING STORMWATER DRAIN
	PROPOSED STORMWATER DRAIN
	PROPOSED 150mm SWD 1 in 100 MIN. CONNECT INLETS TO SWD SYSTEM
	PROPOSED BALCONY DRAINAGE REFER TO HYDRAULIC DRAWINGS
	90mm AG DRAIN (FLUSH OUT RISERS @ BENDS & ENDS)
	PROPOSED RISING MAIN
	PROPOSED 100mm UPVC SUBSOIL DRAINAGE
	EXISTING STORMWATER PIT
	PROPOSED STORMWATER PIT
	PROPOSED STORMWATER PIT (GRATE)
	EXISTING STORMWATER PIT TO BE MODIFIED
	"RELN" UNI PIT (SEE DETAIL)
	PROPOSED PUMP WELL
	PROPOSED SEWER REFER TO HYDRAULIC DRAWINGS
	EXISTING SEWER
	EXISTING UNDERGROUND GAS PIPE
	EXISTING UNDERGROUND WATER PIPE
	EXISTING ELECTRICITY SUPPLY
	EXISTING UNDERGROUND TELECOMMUNICATION CABLE
	EXISTING FEATURES TO BE REMOVED
	DOWNPIPE (PLAN LOCATION)
	INSPECTION OPENING
	GRATE INLET
	GRATE TRENCH (SEE DETAIL)
	RETAINING WALL

HUNTLEE AGED CARE FACILITY
BASEMENT FFL 43.40
GROUND FLOOR FFL 46.700

DETAILED PLAN 1 OF 8



NO	REVISION	DATE	NO	REVISION	DATE
A	DA ISSUE	06/11/24			
P3	COORDINATION ISSUE	17/06/24			
P2	AMENDED RETAINING WALLS	02/05/24			
P1	PRELIMINARY ISSUE	06/03/24			

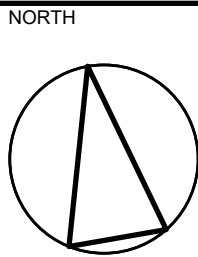
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DETAILED PLAN
(1:100)
1 OF 8

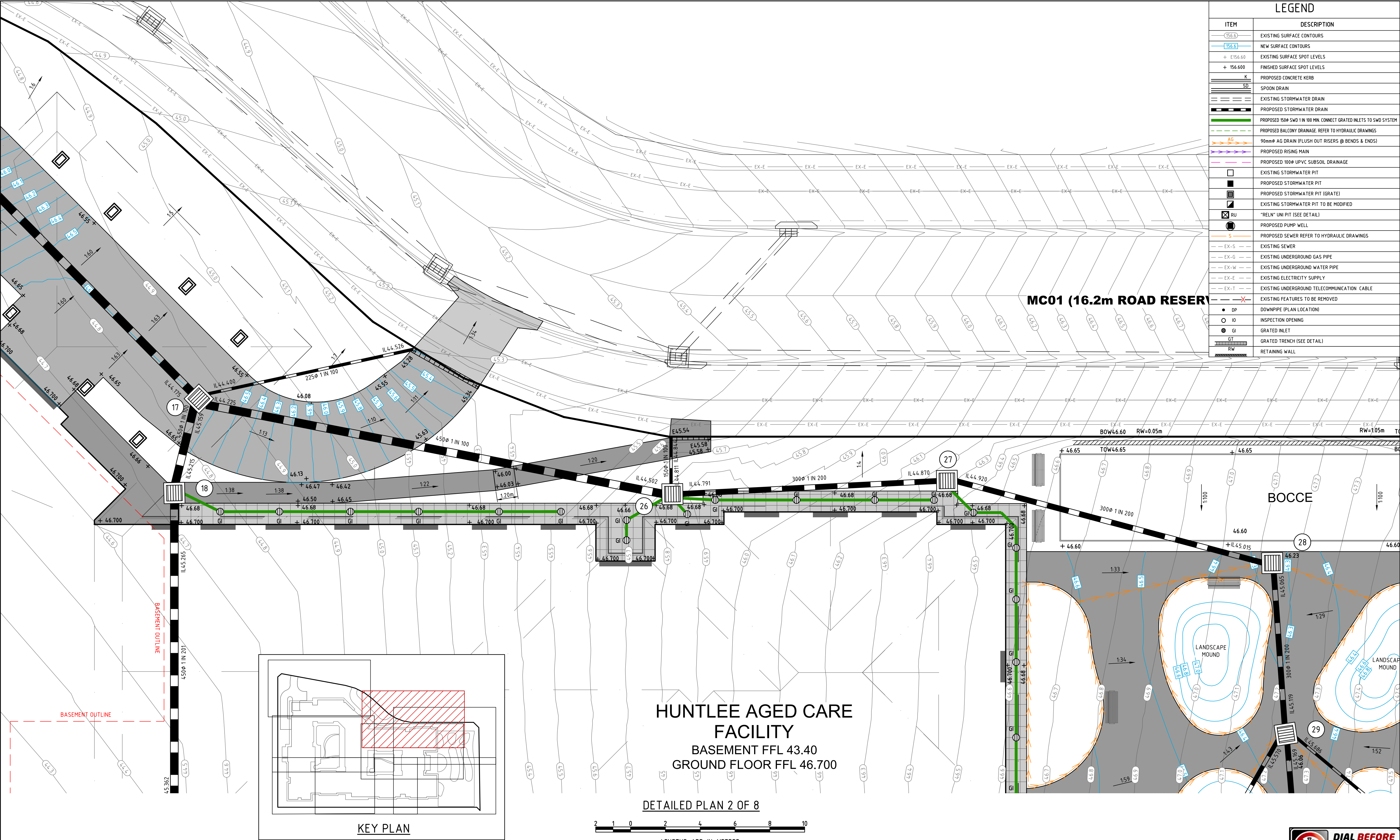
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DRG NO LC2667-C03		



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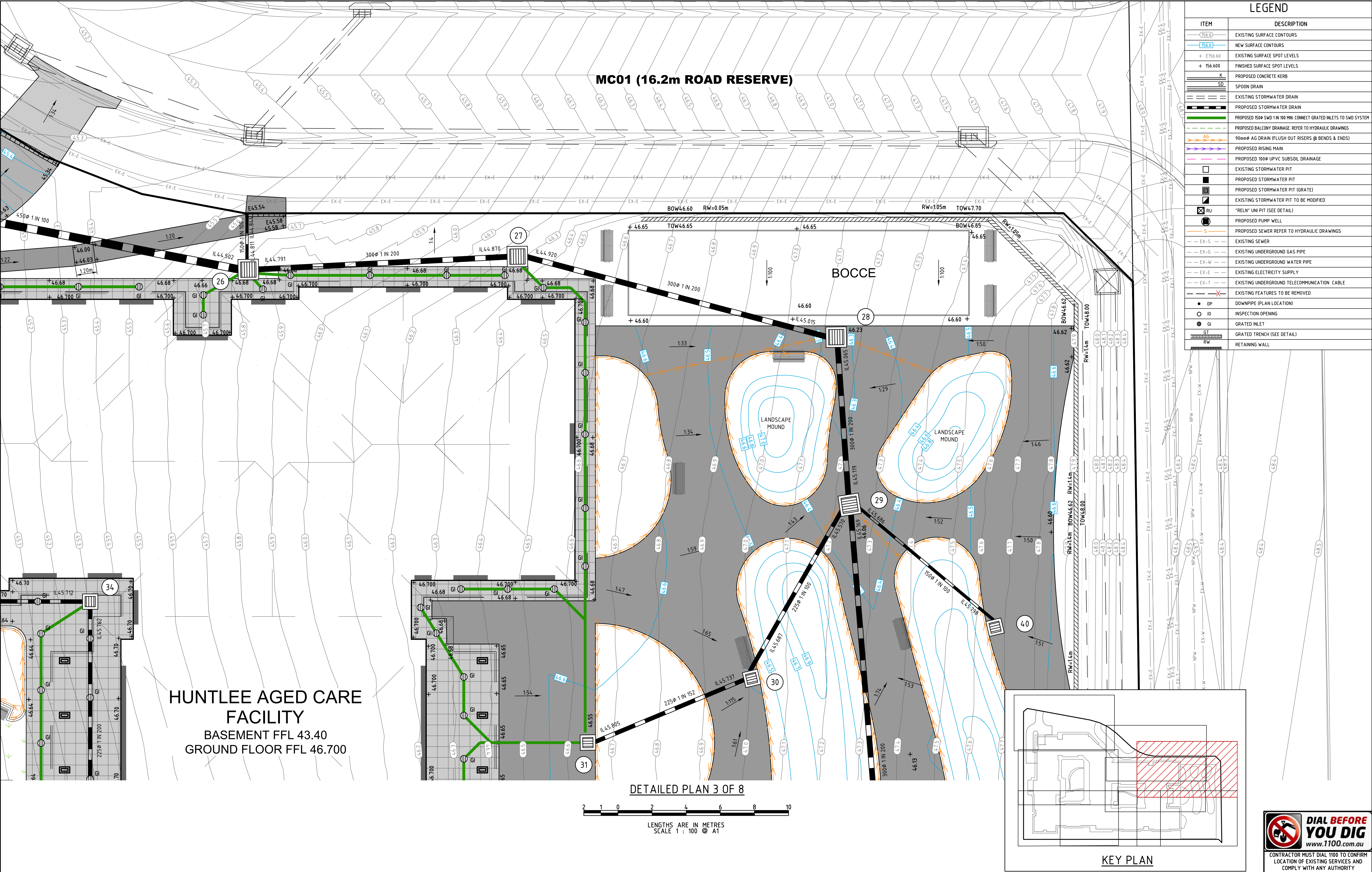
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ISSUE
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Email: admin@lanicivil.com.au

DETAILED PLAN

(1:100)

3 OF 8

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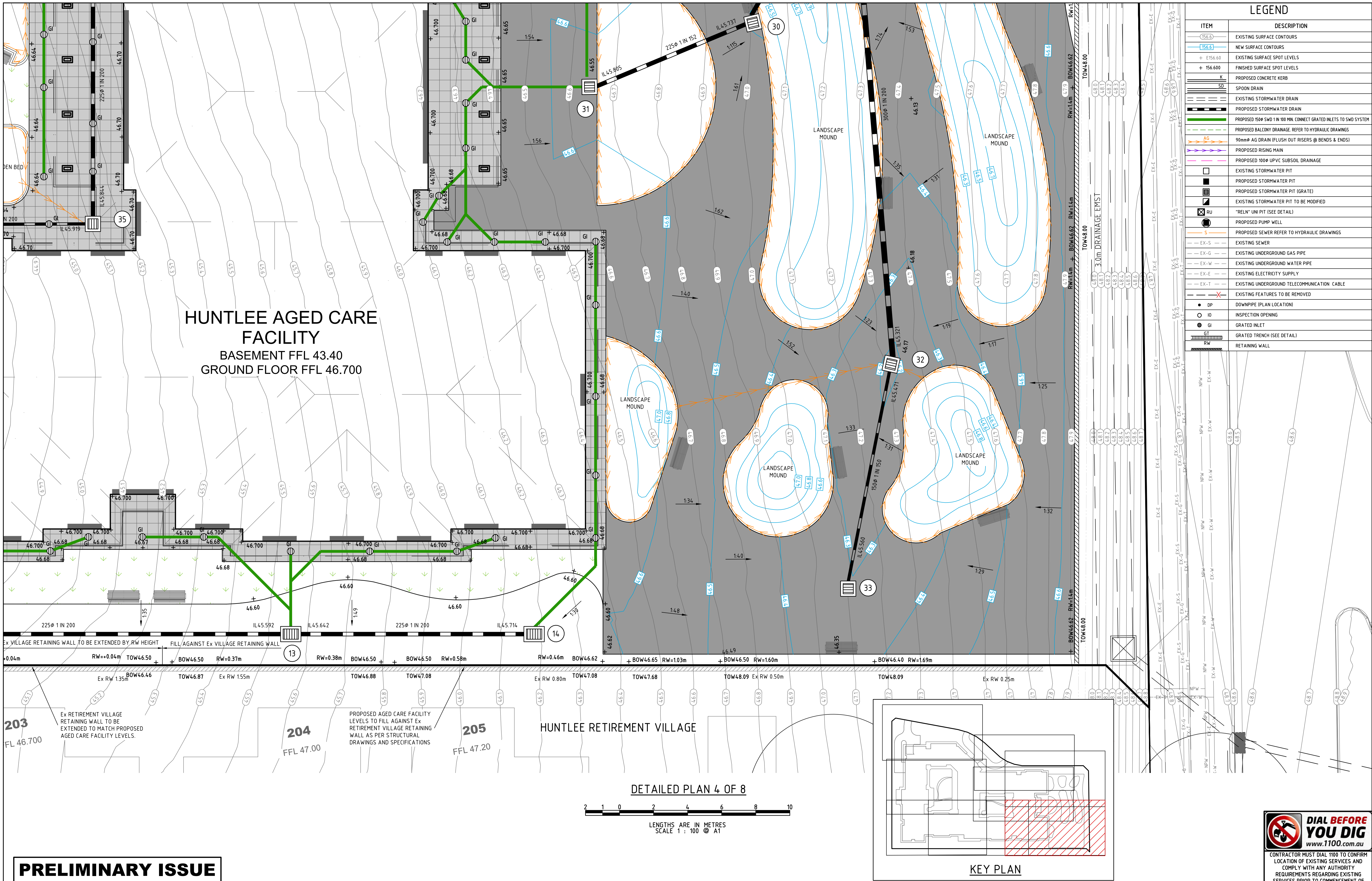
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DATE 27-07-23	SCALE/S AS NOTED	ISSUE A
DRG NO LC2667-C05		



PRELIMINARY ISSUE

A	DA ISSUE	06/11/24			
P2	COORDINATION ISSUE	17/06/24			
P1	PRELIMINARY ISSUE	06/03/24			
NO	REVISION	DATE	NO	REVISION	DATE

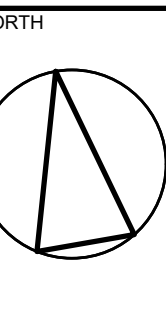
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4 OF 8

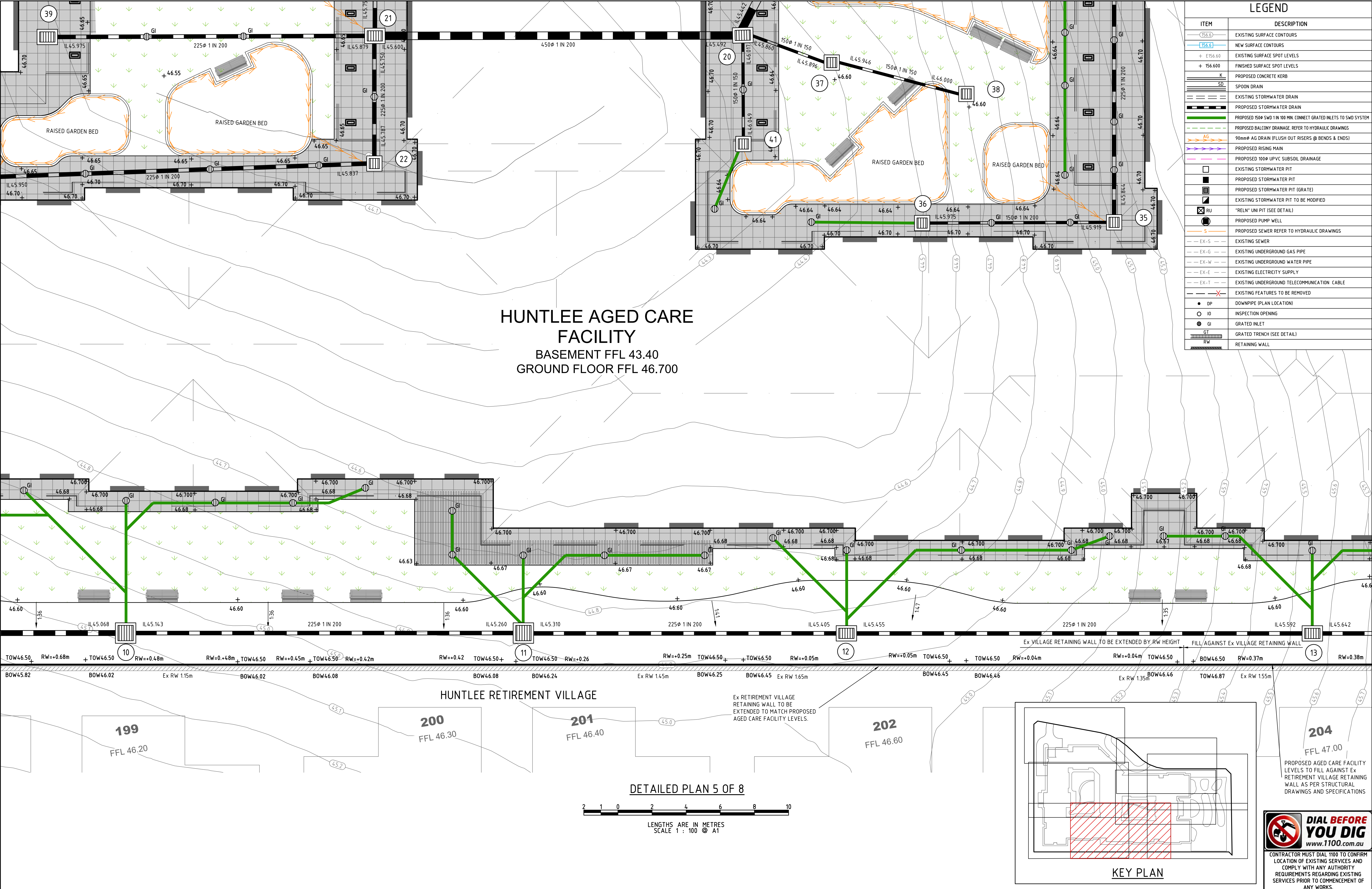
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DATE 27-07-23	SCALE/S AS NOTED	ISSUE A
DRG NO LC2667-C06		



A	DA ISSUE	06/11/24			
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NO	REVISION	DATE	NO	REVISION	DATE

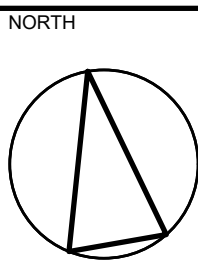
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DETAILED PLAN
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5 OF 8

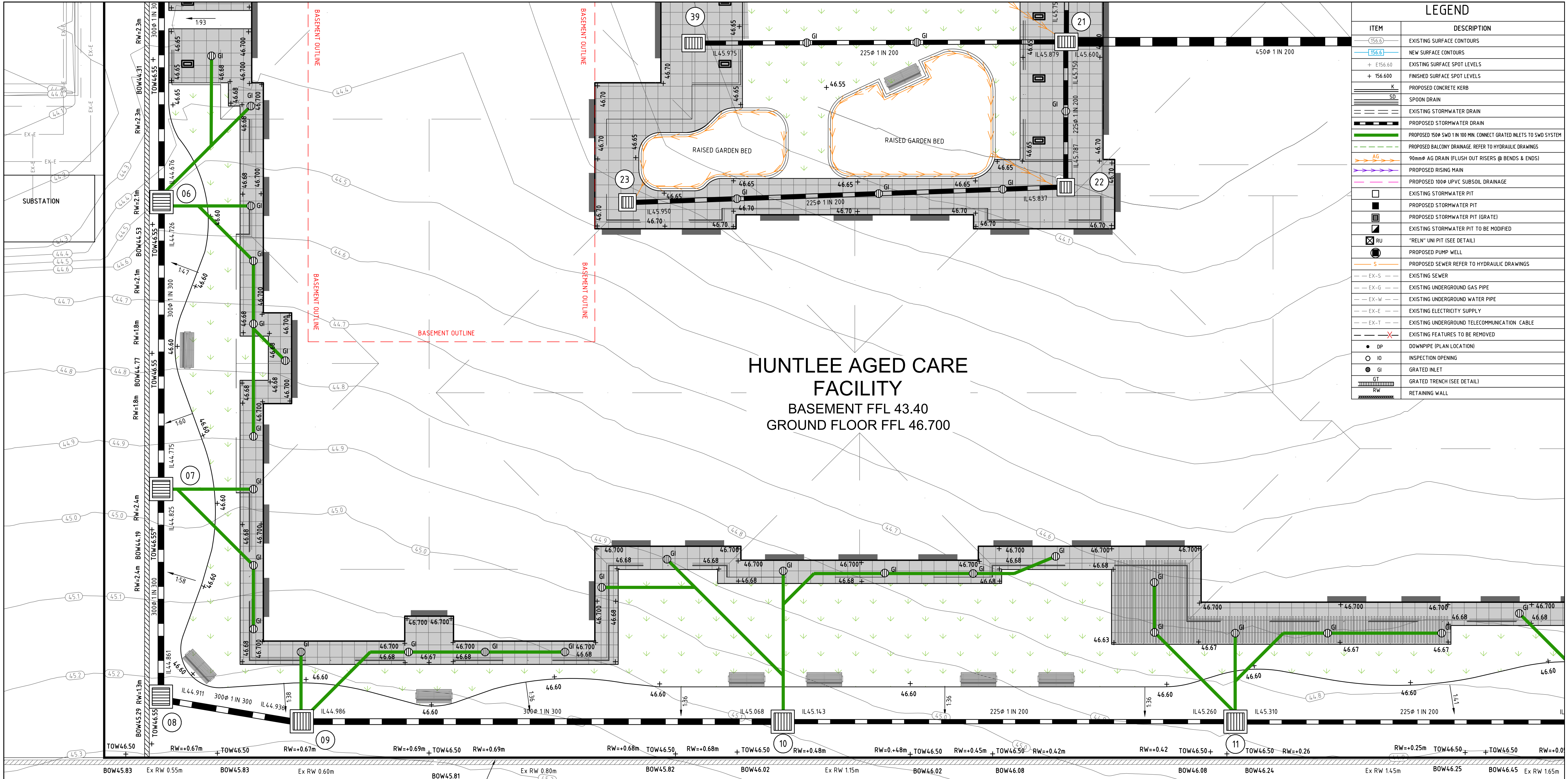
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DATE 27-07-23	SCALE/S AS NOTED	ISSUE LC2667-C07
DRG NO LC2667-C07		A

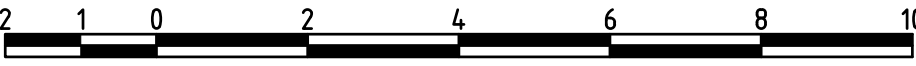


LEGEND	
ITEM	DESCRIPTION
156.0	EXISTING SURFACE CONTOURS
156.6	NEW SURFACE CONTOURS
+ E156.60	EXISTING SURFACE SPOT LEVELS
+ 156.600	FINISHED SURFACE SPOT LEVELS
K	PROPOSED CONCRETE KERB
SD	SPOON DRAIN
---	EXISTING STORMWATER DRAIN
---	PROPOSED STORMWATER DRAIN
---	PROPOSED 150mm SWD 1 IN 100 MIN. CONNECT GRATED INLETS TO SWD SYSTEM
---	PROPOSED BALCONY DRAINAGE. REFER TO HYDRAULIC DRAWINGS
AG	90mm AG DRAIN (FLUSH OUT RISERS @ BENDS & ENDS)
---	PROPOSED RISING MAIN
---	PROPOSED 100mm UPVC SUBSOIL DRAINAGE
IO	EXISTING STORMWATER PIT
IP	PROPOSED STORMWATER PIT
IPG	PROPOSED STORMWATER PIT (GRATE)
IPM	EXISTING STORMWATER PIT TO BE MODIFIED
RU	"RELIN" UNI PIT (SEE DETAIL)
PW	PROPOSED PUMP WELL
S	PROPOSED SEWER REFER TO HYDRAULIC DRAWINGS
EX-S	EXISTING SEWER
EX-G	EXISTING UNDERGROUND GAS PIPE
EX-W	EXISTING UNDERGROUND WATER PIPE
EX-E	EXISTING ELECTRICITY SUPPLY
EX-T	EXISTING UNDERGROUND TELECOMMUNICATION CABLE
X	EXISTING FEATURES TO BE REMOVED
DP	DOWNPIPE (PLAN LOCATION)
IO	INSPECTION OPENING
GI	GRATED INLET
GT	GRATED TRENCH (SEE DETAIL)
RW	RETAINING WALL

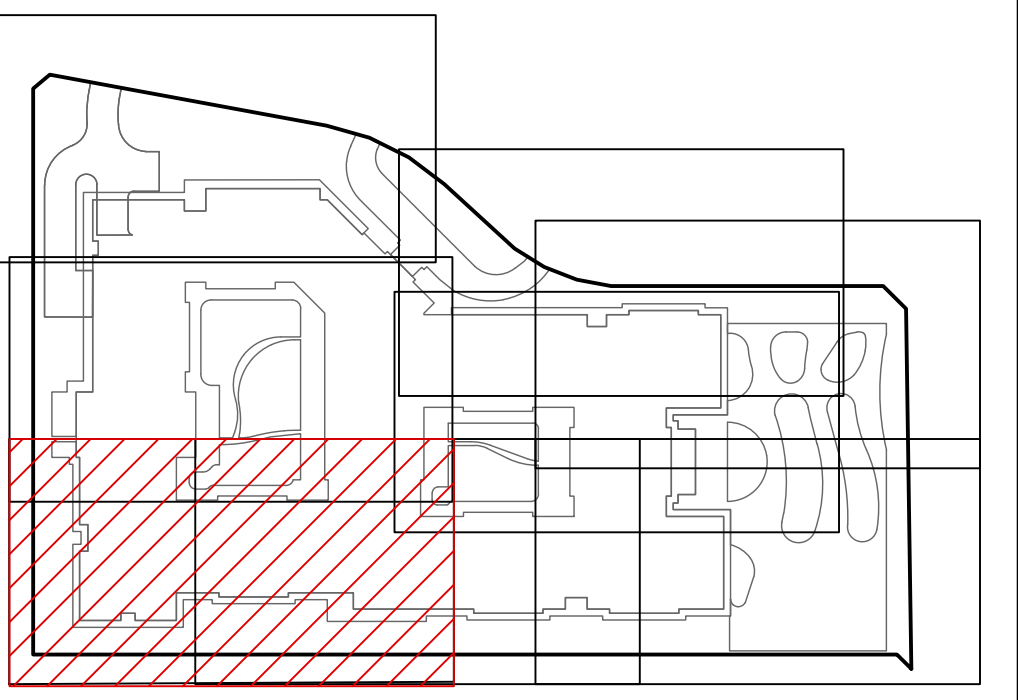
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BASEMENT FFL 43.40
GROUND FLOOR FFL 46.700

DETAILED PLAN 6 OF 8



LENGTHS ARE IN METRES
SCALE 1 : 100 @ A1



KEY PLAN

NO	REVISION	DATE	NO	REVISION	DATE
A	DA ISSUE	06/11/24			
P3	COORDINATION ISSUE	14/06/24			
P2	AMENDED RETAINING WALLS	02/05/24			
P1	PRELIMINARY ISSUE	06/03/24			

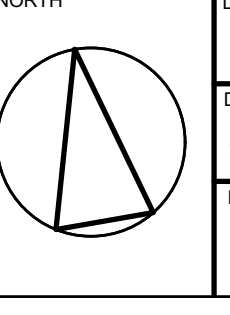
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DETAILED PLAN
(1:100)
6 OF 8

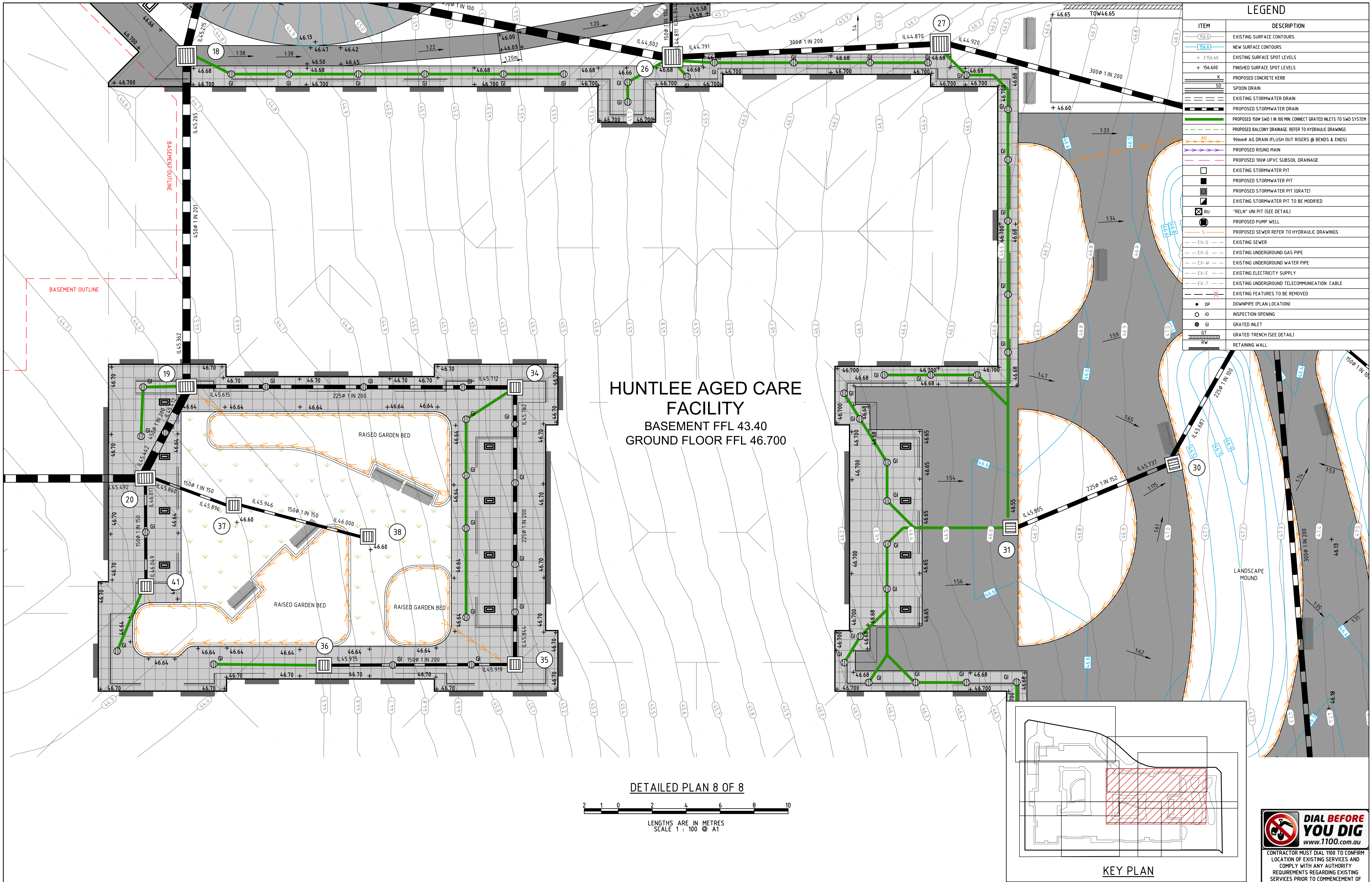
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DRG NO LC2667-C08		



A	DA ISSUE	06/11/24			
P2	COORDINATION ISSUE	14/06/24			
P1	PRELIMINARY ISSUE	06/03/24			
NO	REVISION	DATE	NO	REVISION	DATE

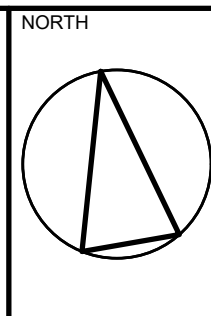
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8 OF 8

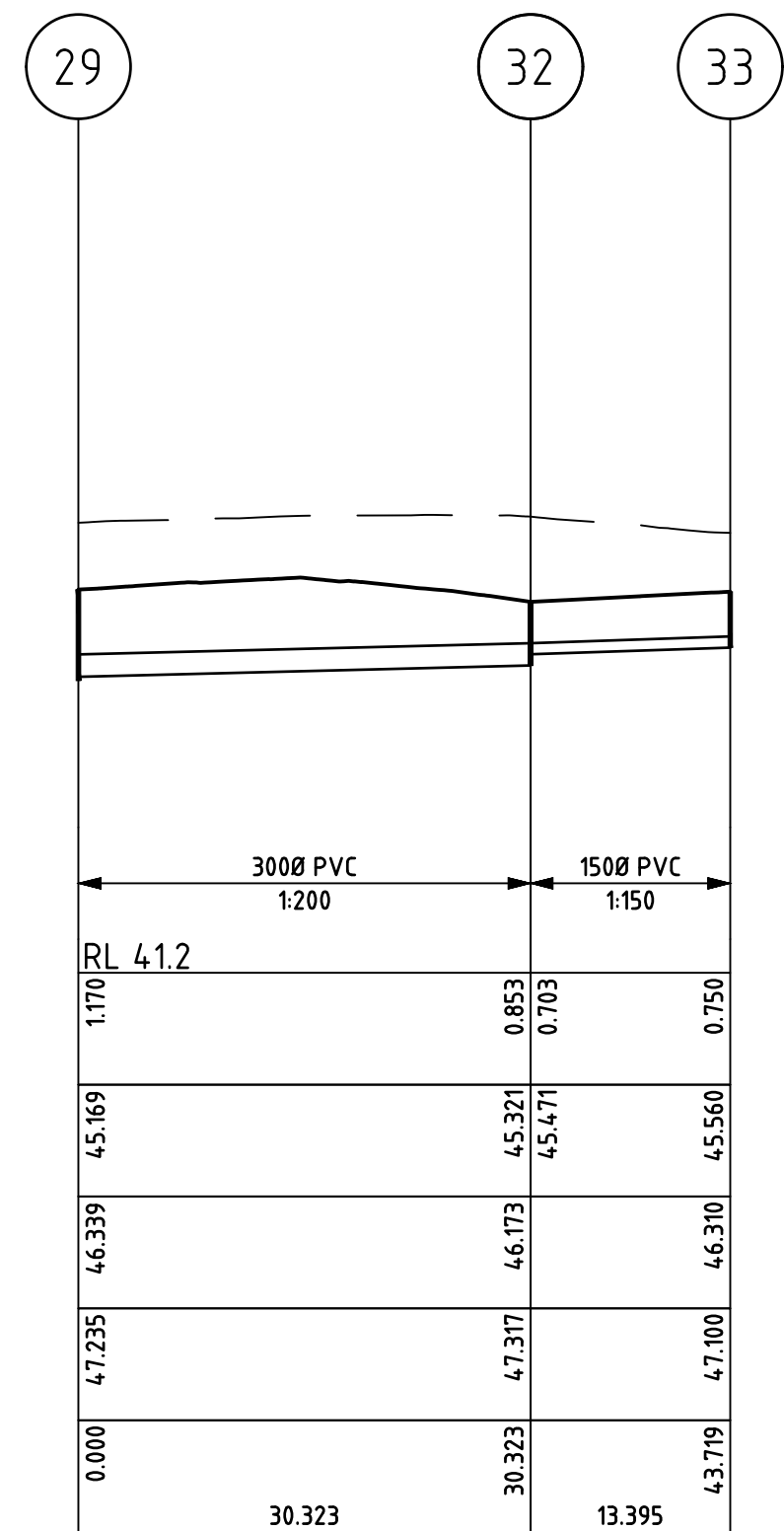
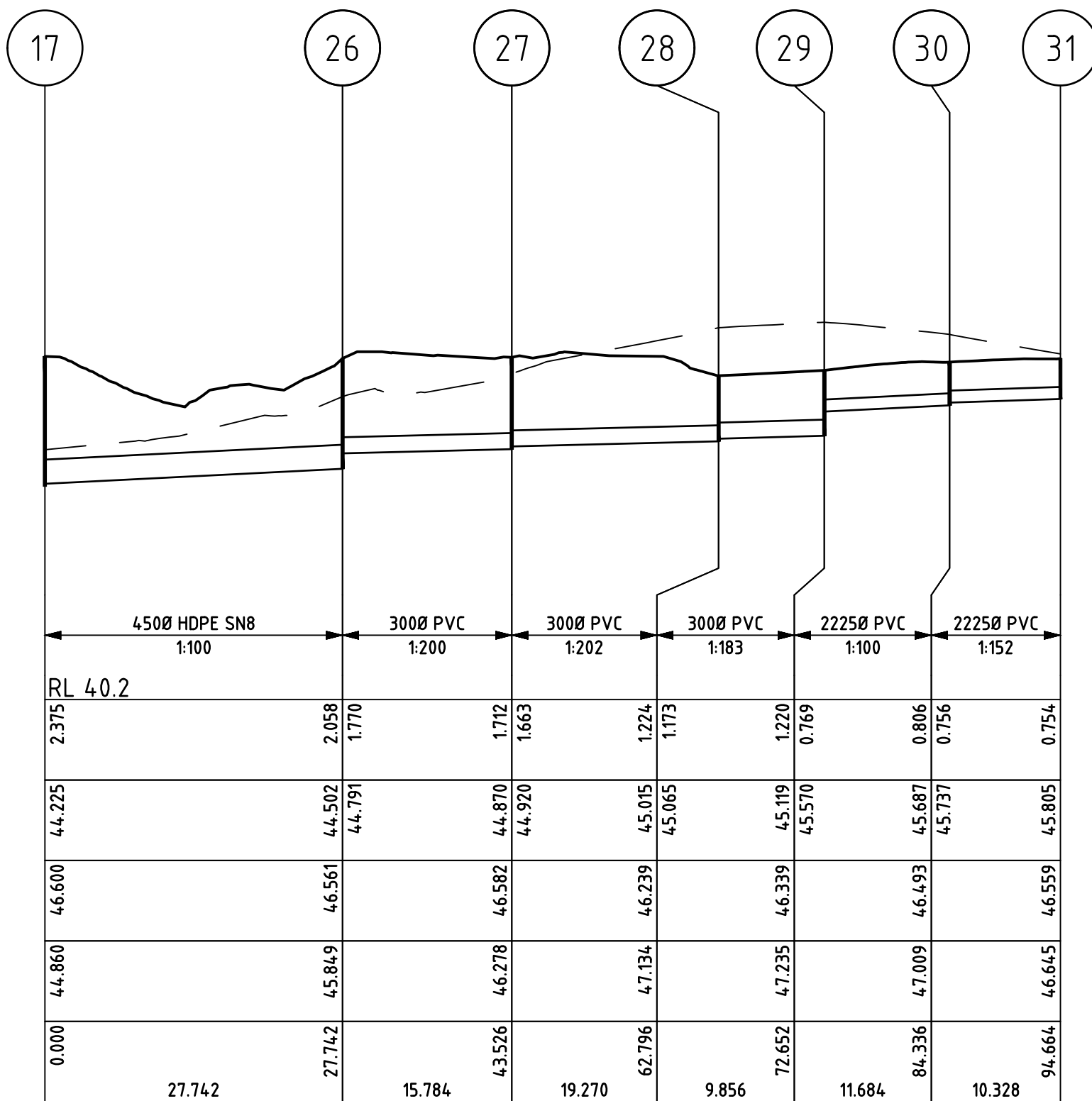
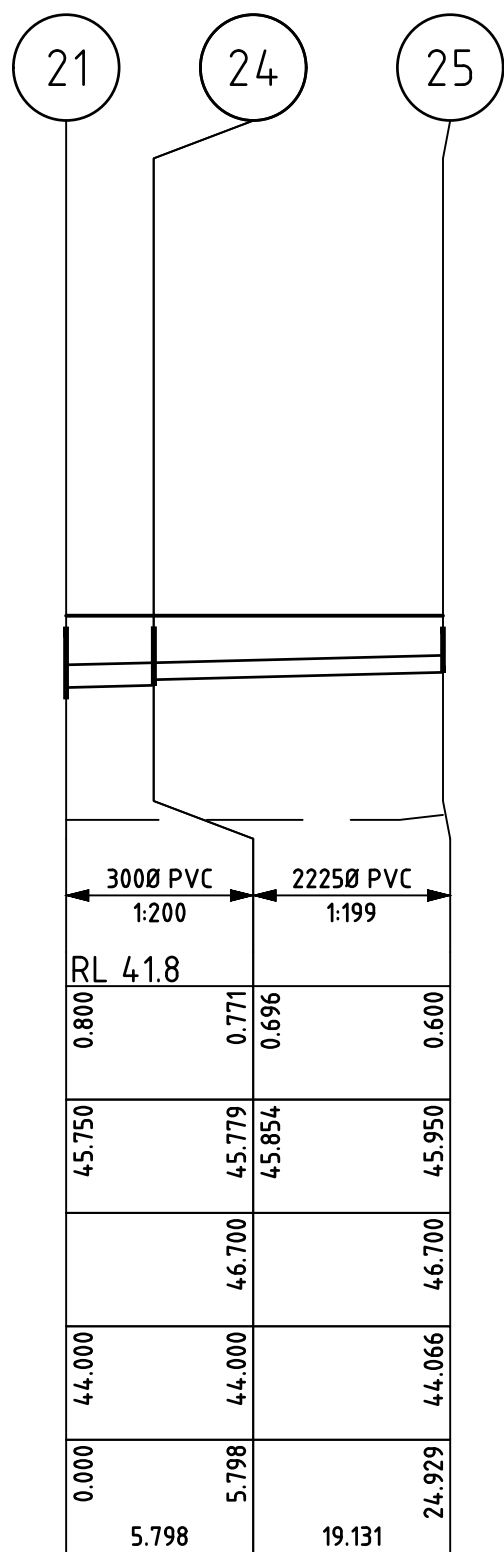
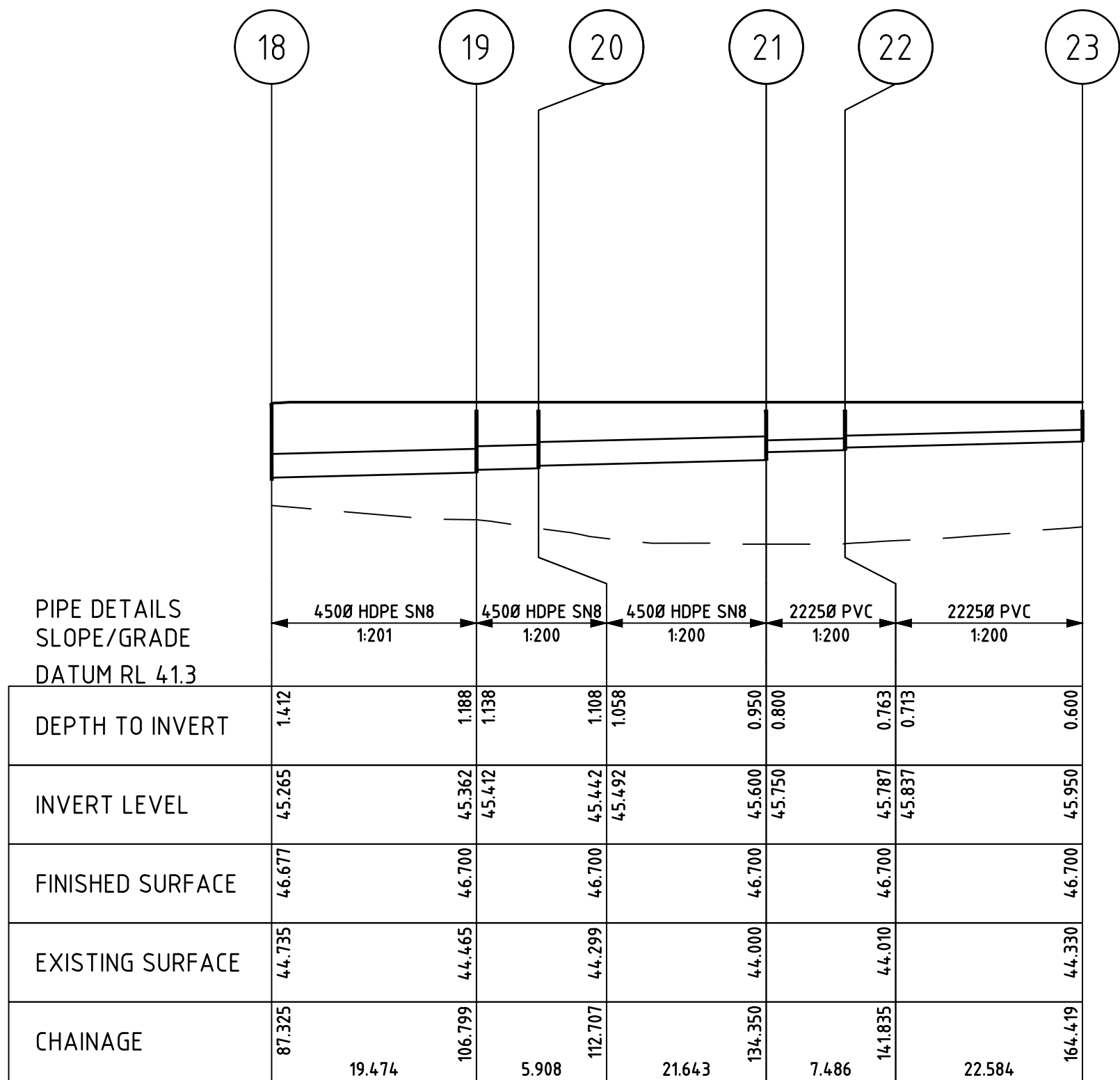
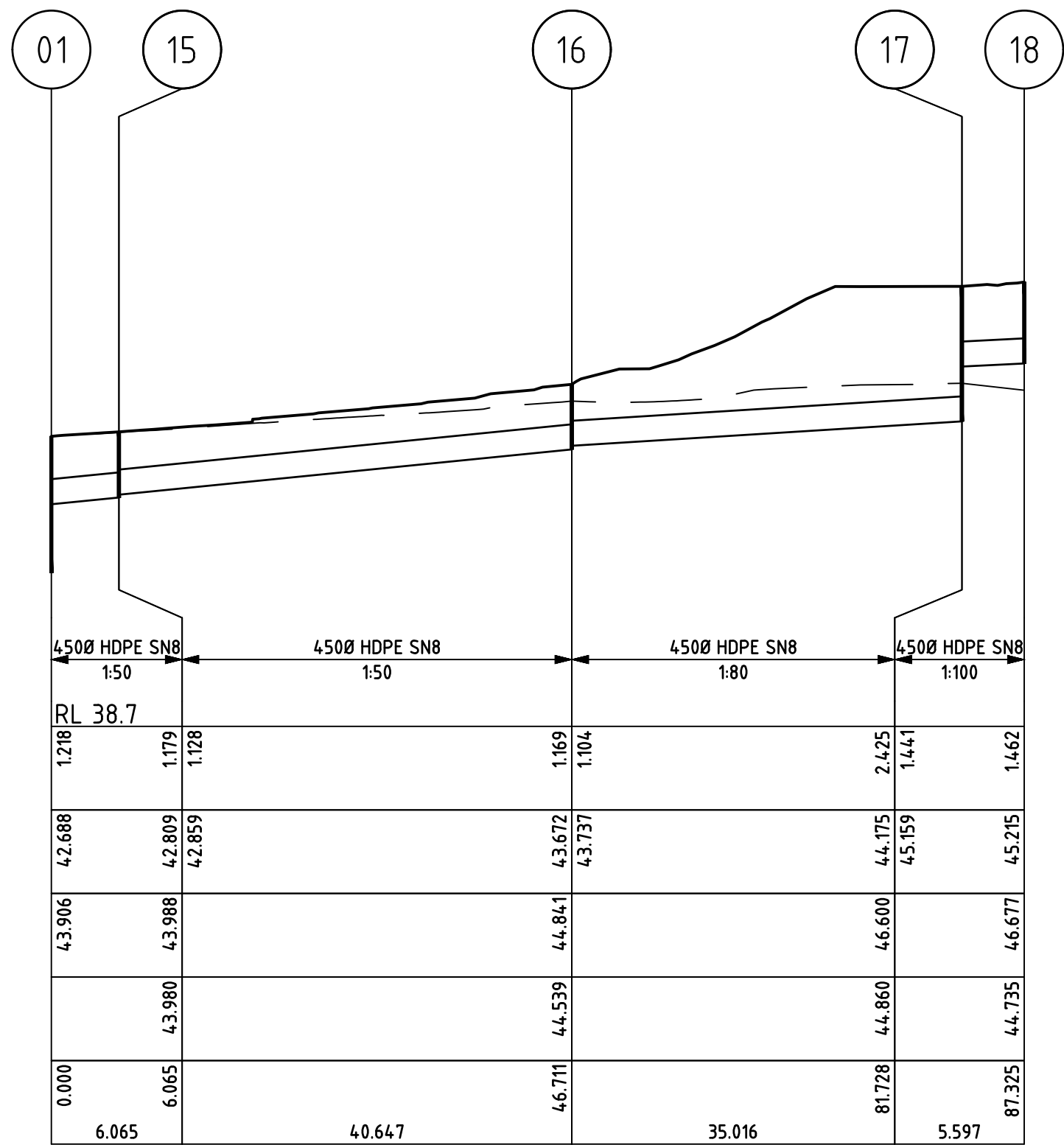
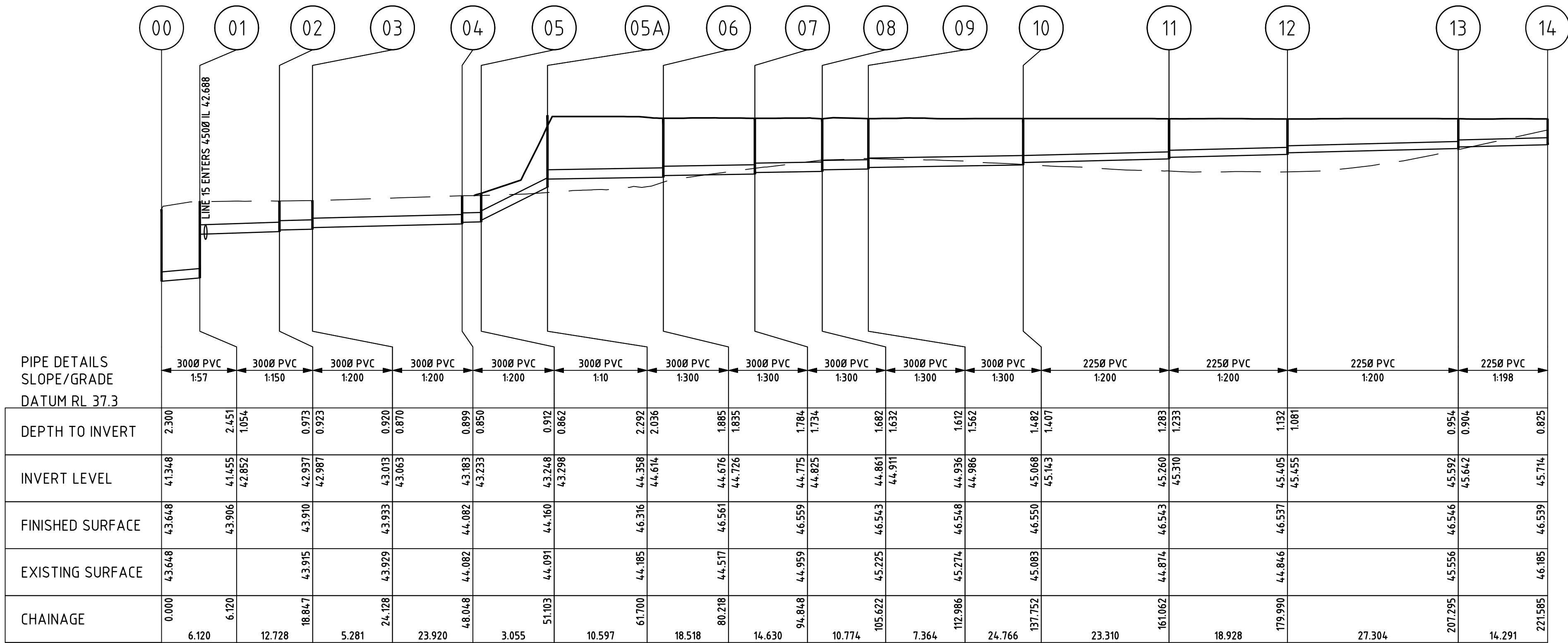
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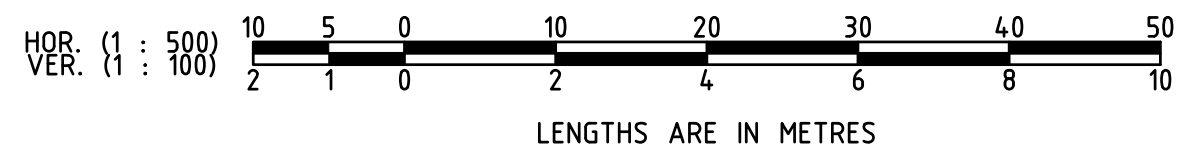
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DRG NO LC2667-C10		



STORMWATER LONGITUDINAL SECTIONS 1 OF 2



A	DA ISSUE	06/11/24			
P3	COORDINATION ISSUE	14/06/24			
P2	AMENDED RETAINING WALLS	02/05/24			
P1	PRELIMINARY ISSUE	06/03/24			
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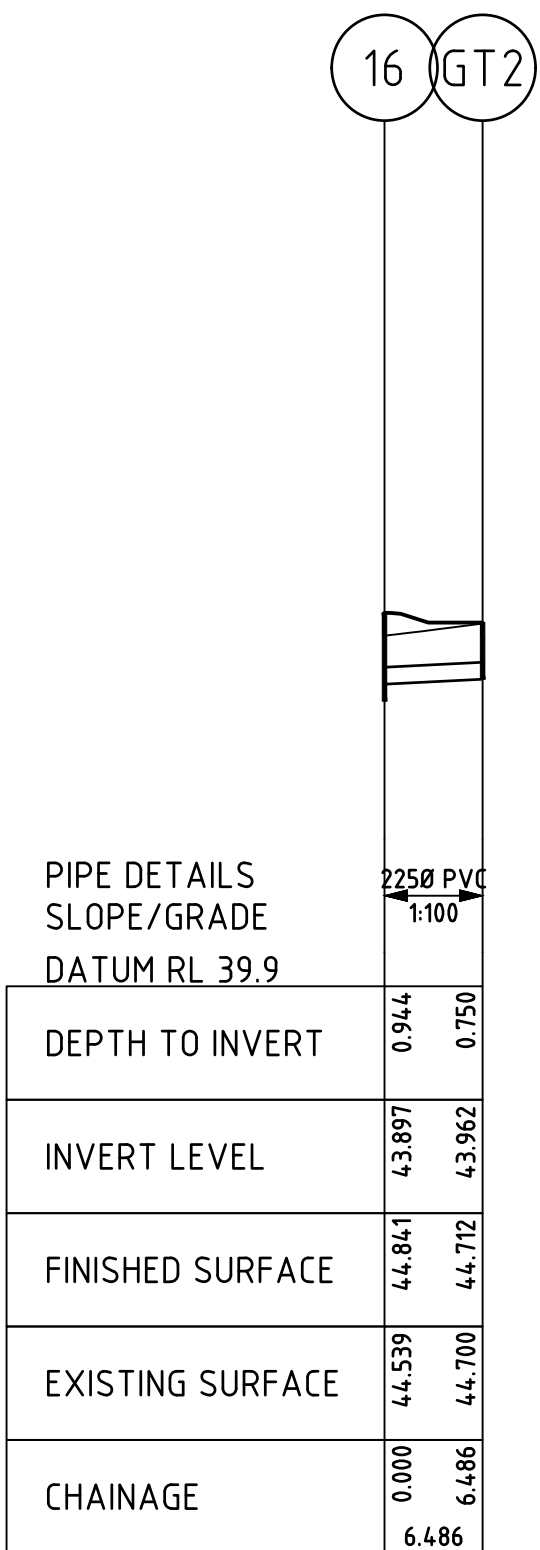
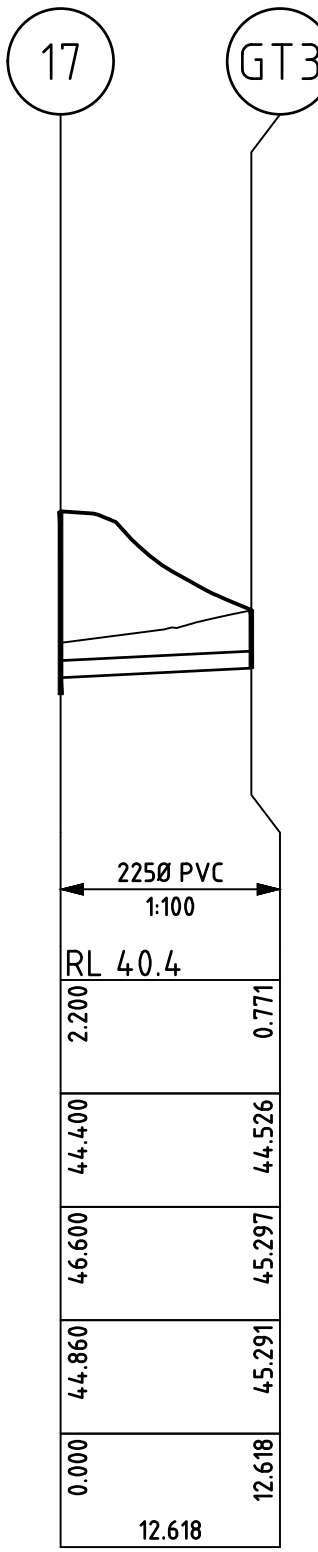
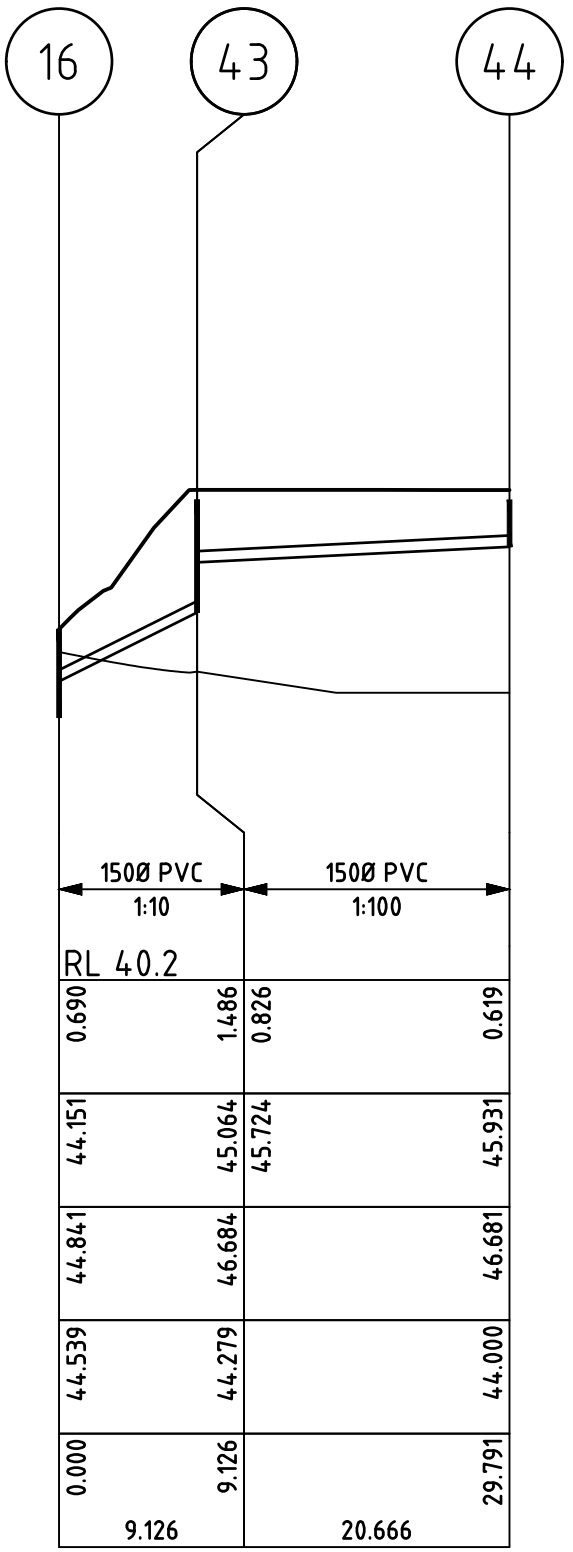
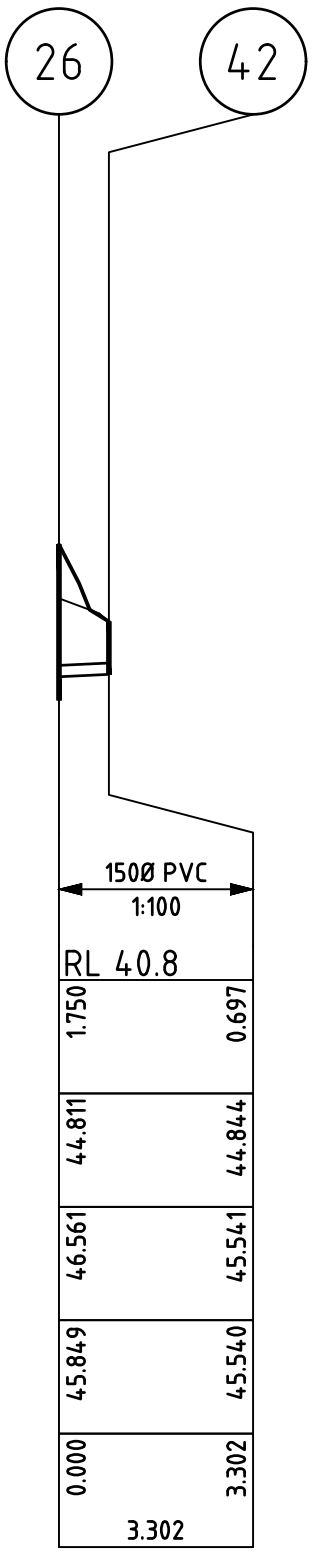
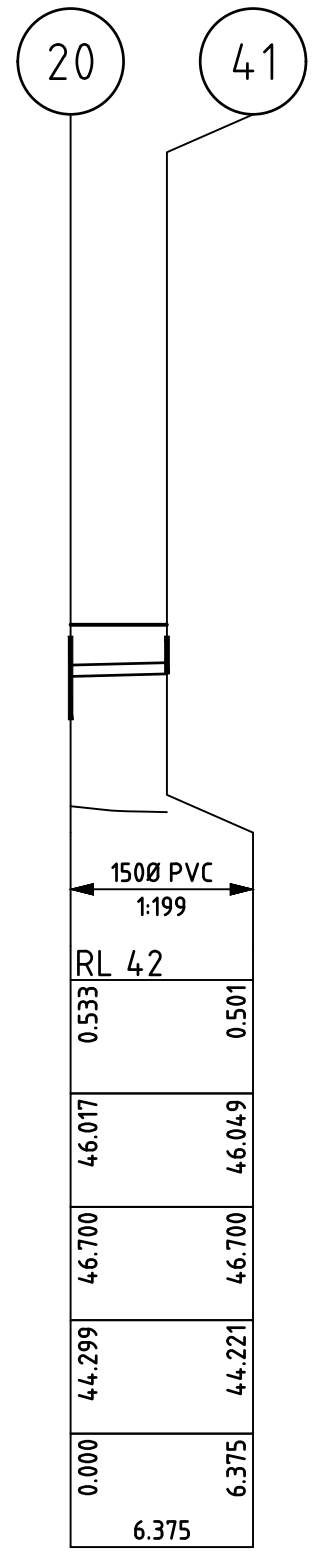
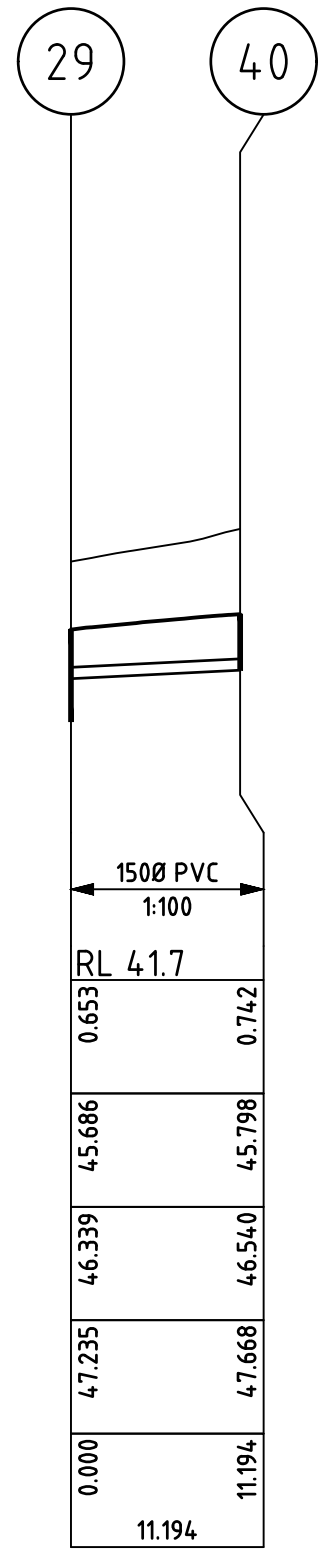
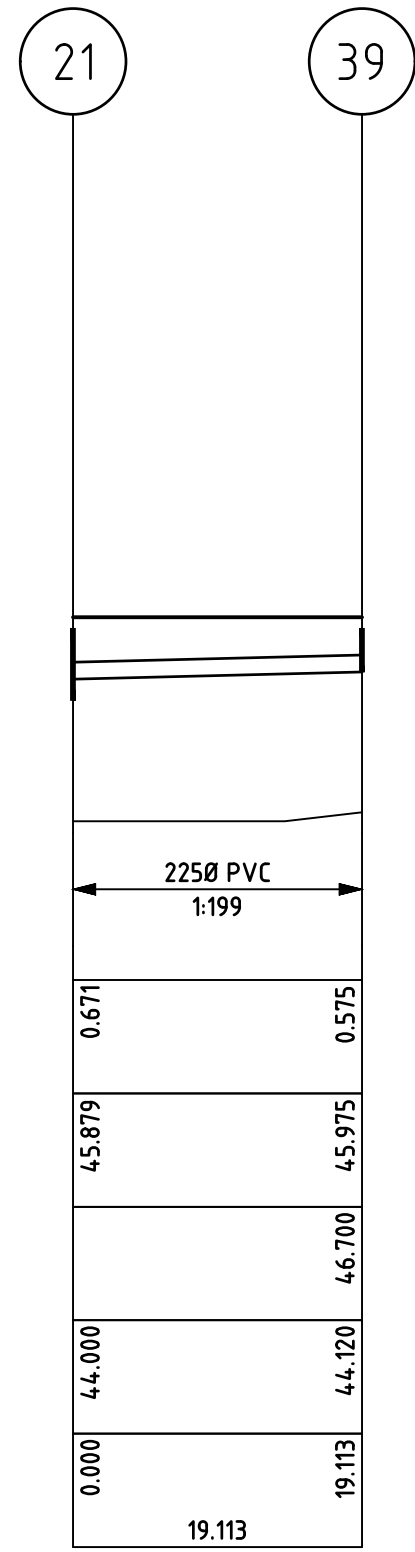
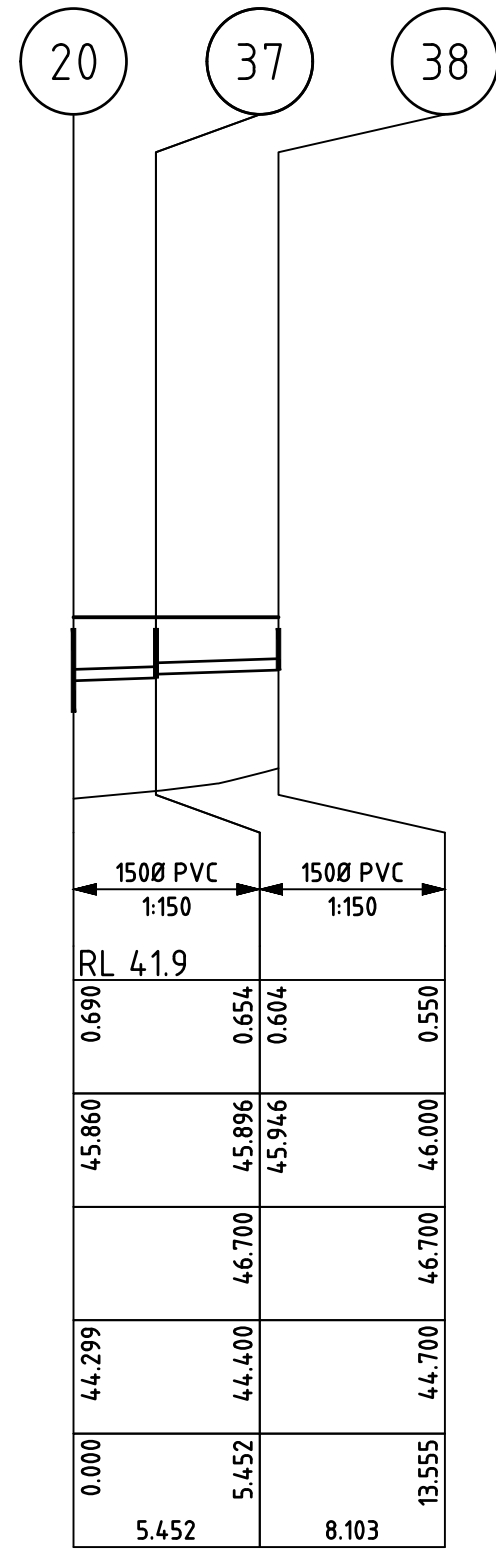
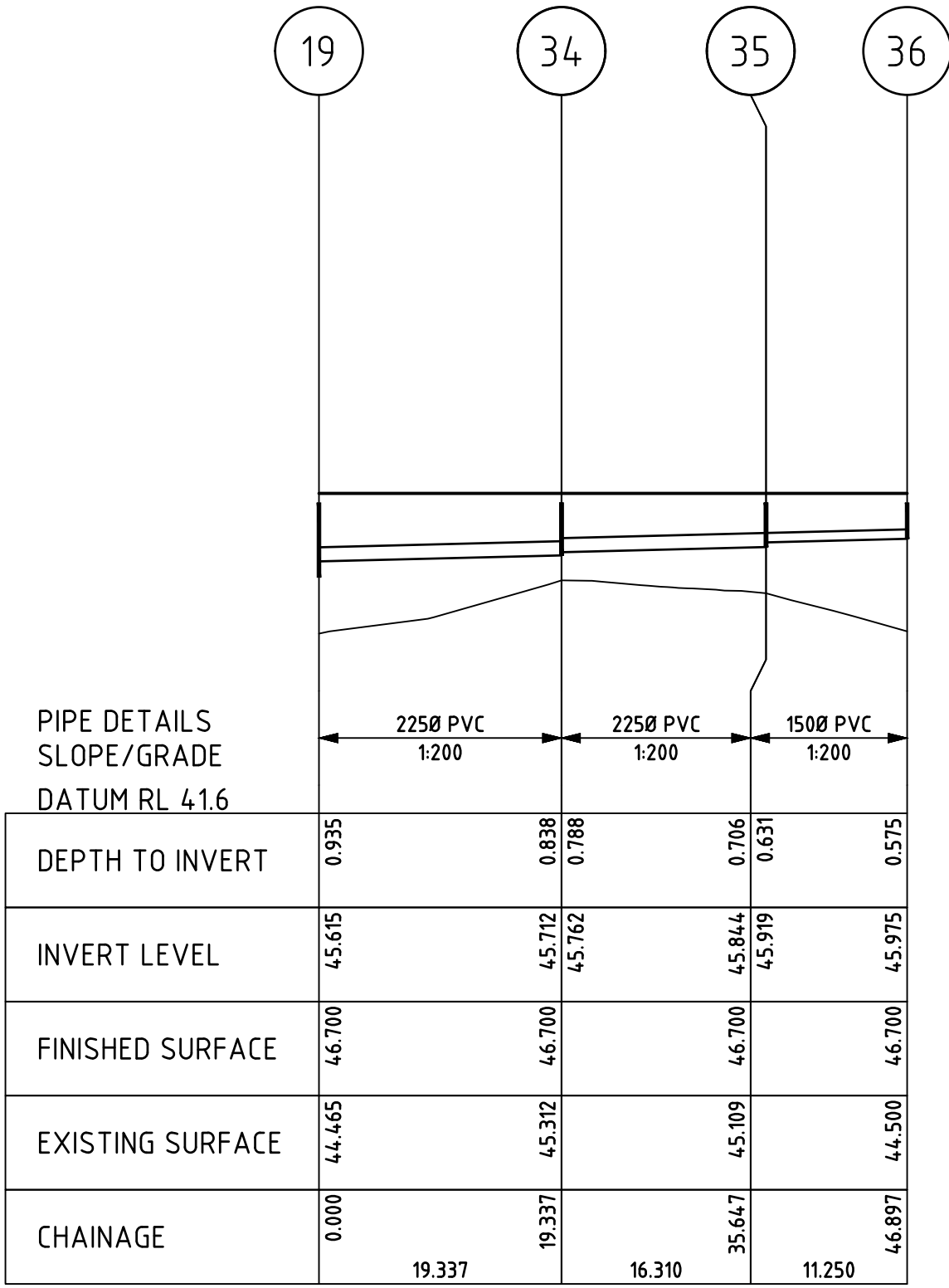
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1 OF 2

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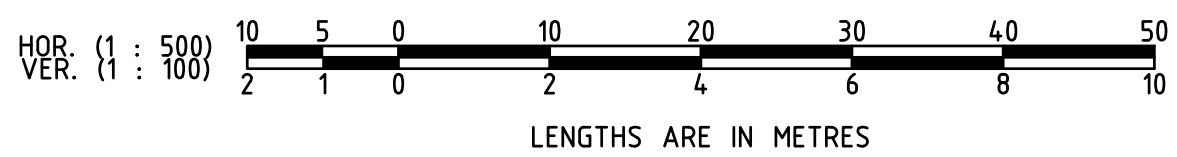
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P1	PRELIMINARY ISSUE	06/03/24			
NO	REVISION	DATE	NO	REVISION	DATE

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STORMWATER
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2 OF 2

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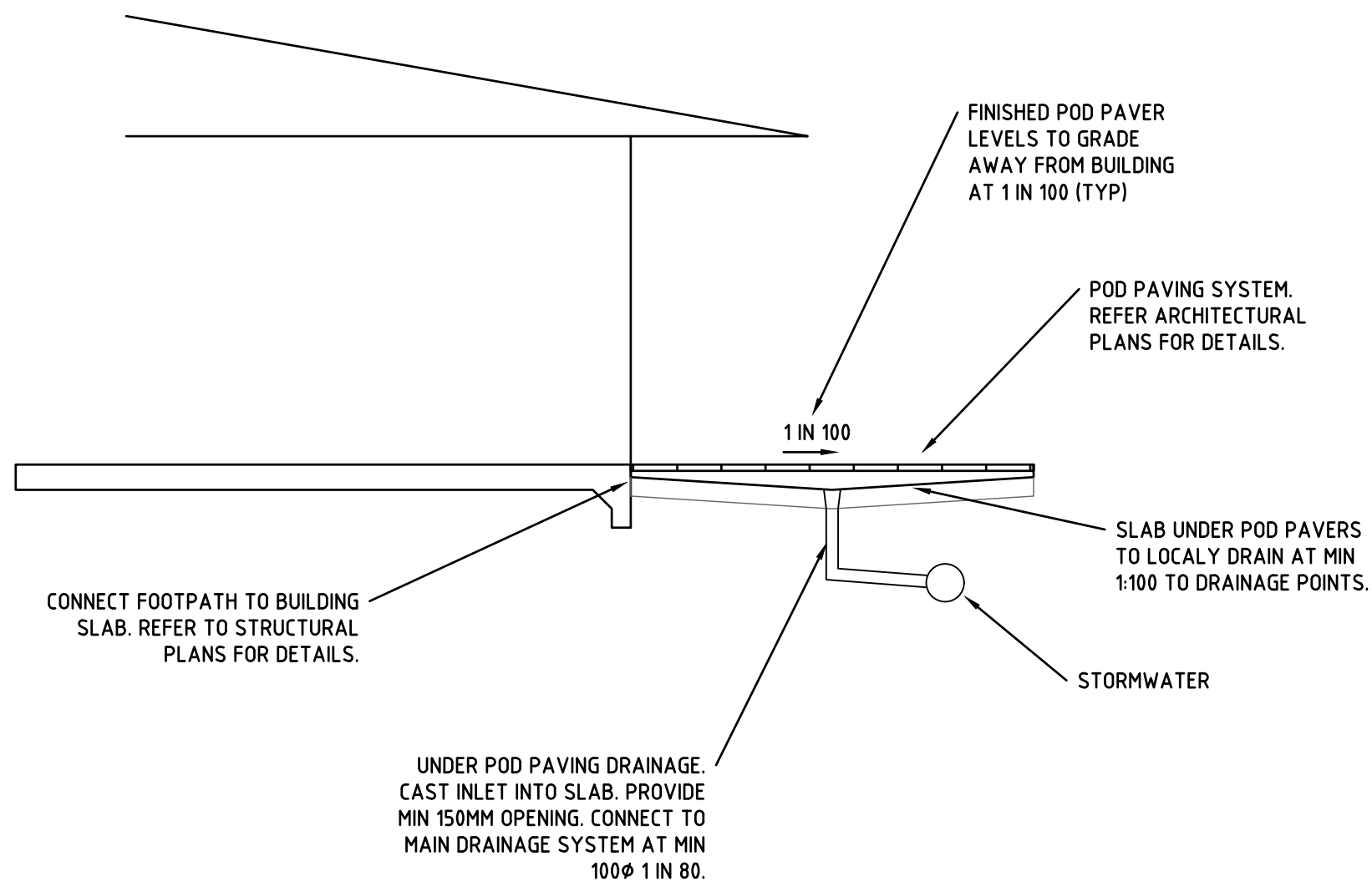
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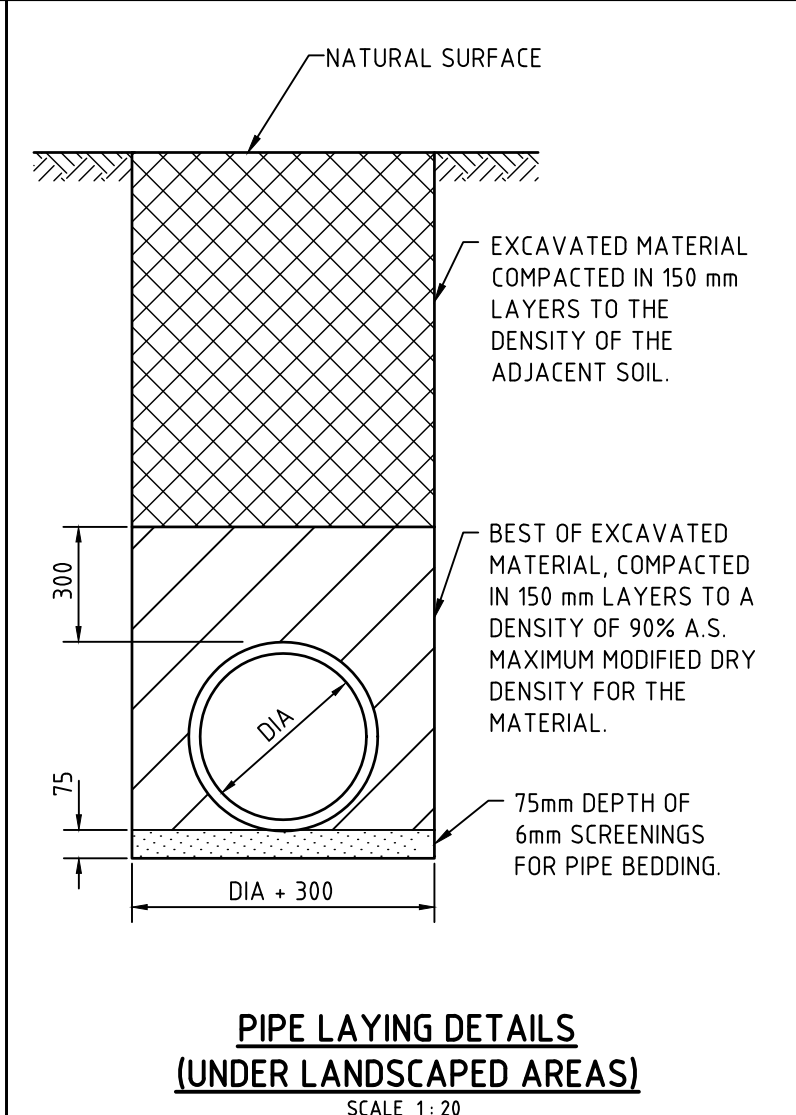
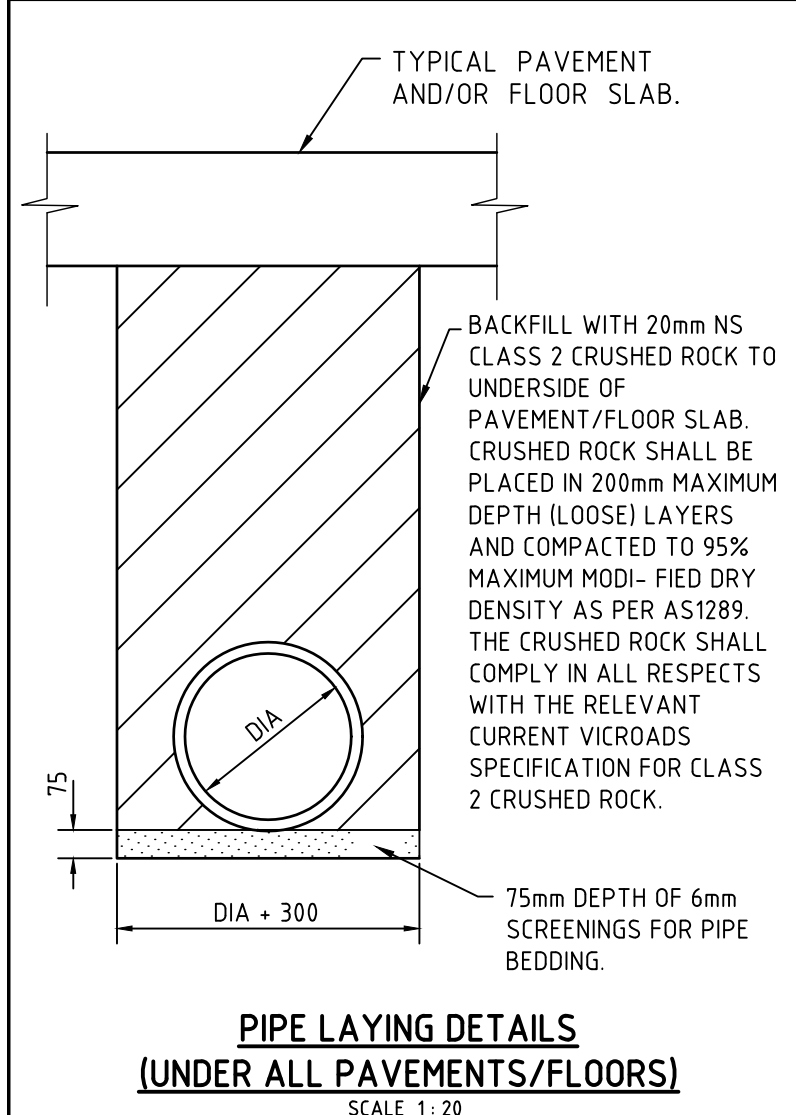
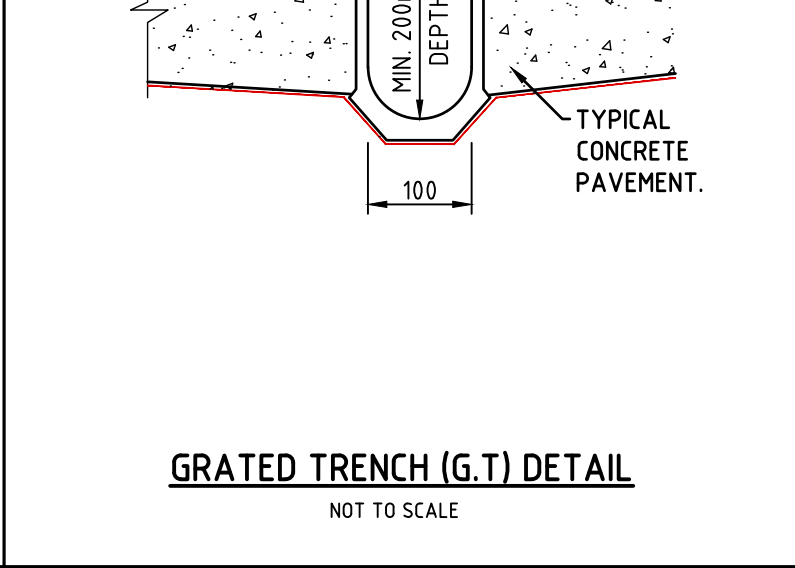
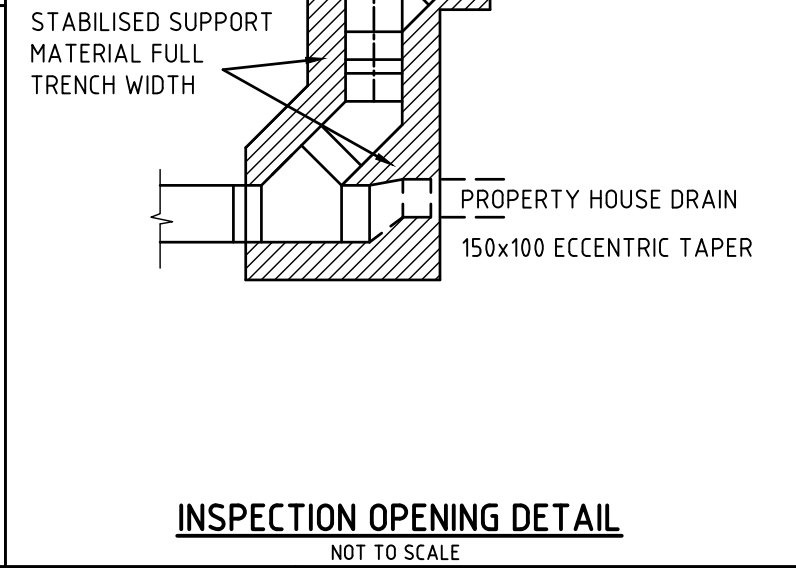
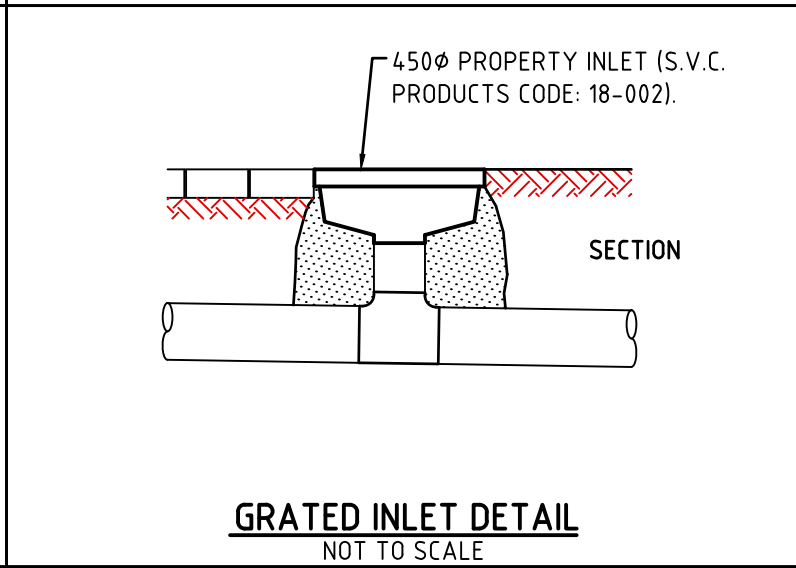
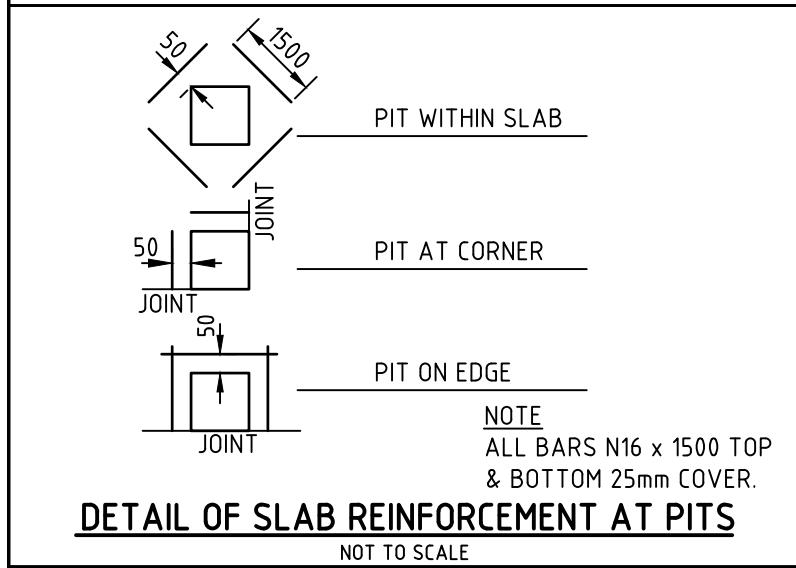
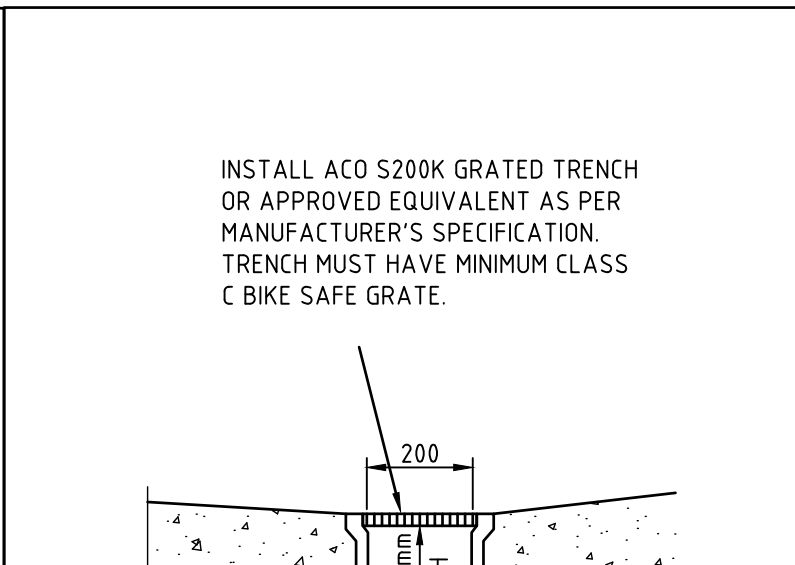
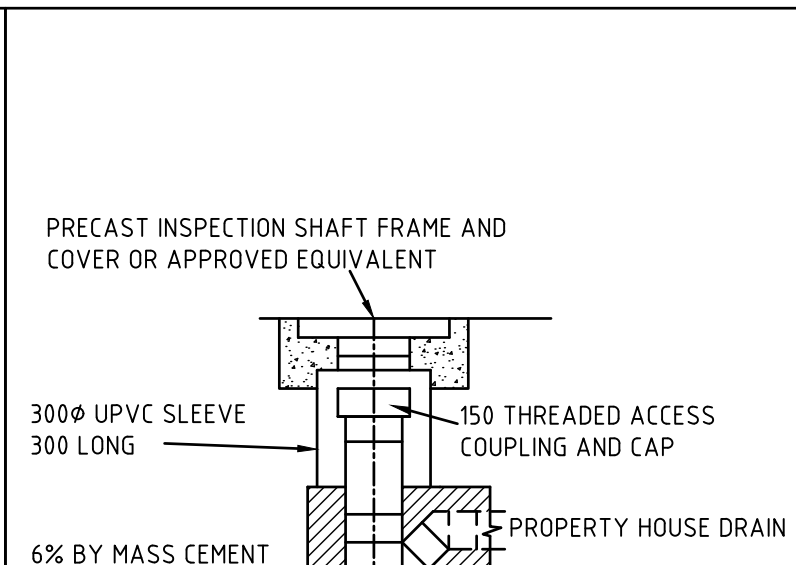
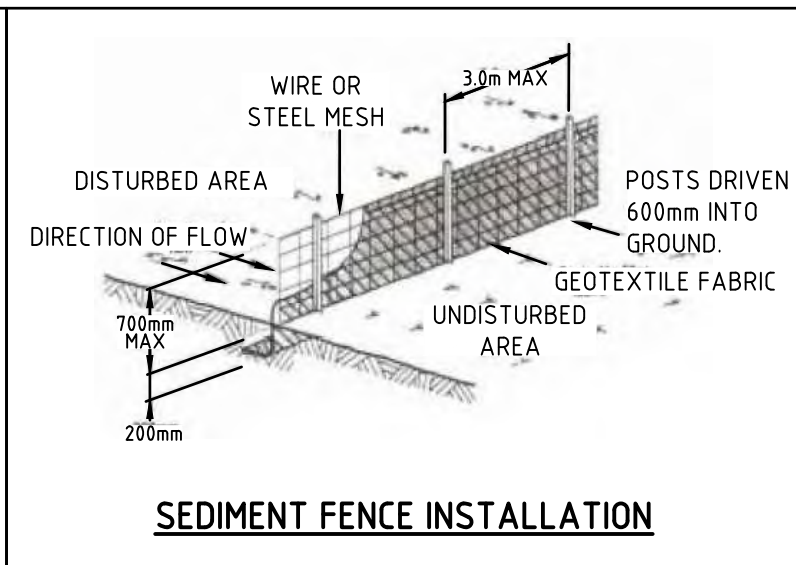
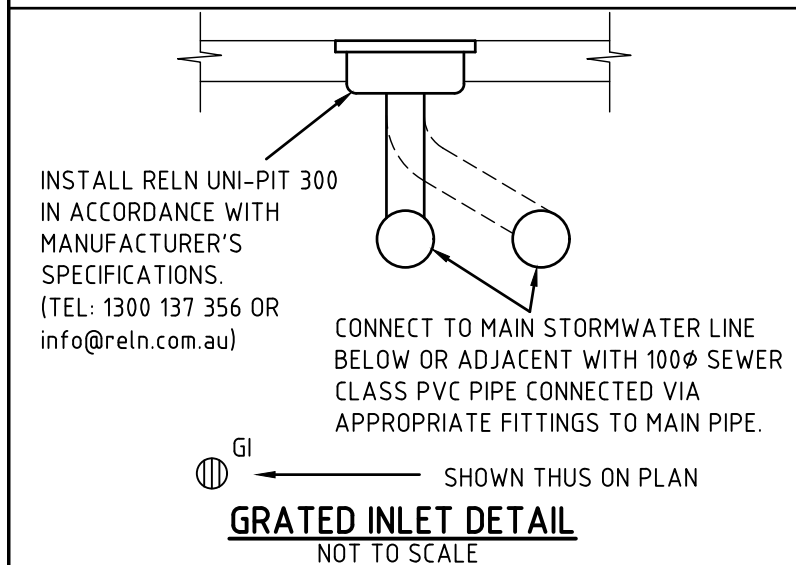
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DRG NO LC2667-C12
ISSUE A

STORMWATER PIT SCHEDULE														
Pit No.	Pit Type	Pit Width	Pit Length	Cover Class	Cover Type	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	COMMENT
		(mm)	(mm)			(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
00	EXISTING PIT	Ex	Ex	Ex	Ex	Ex900	Ex40.192	300	41.348	2.300	43.648	345846.455	6384169.695	EXISTING PIT TO BE MODIFIED TO SUIT NEW CONNECTION
01	GRATED PIT	900	900	D	GM	300	41.455	300	42.852	2.451	43.906	345845.717	6384163.620	REFER TO STORMWATER PIT DETAILS ON SHEET C14
								450	42.688					
02	GRATED PIT	600	900	D	GM	300	42.937	300	42.987	0.973	43.910	345842.517	6384151.301	REFER TO STORMWATER PIT DETAILS ON SHEET C14
03	GRATED PIT	600	900	D	GM	300	43.013	300	43.063	0.920	43.933	345839.134	6384147.246	REFER TO STORMWATER PIT DETAILS ON SHEET C14
04	GRATED PIT	600	600	D	GM	300	43.183	300	43.233	0.899	44.082	345835.199	6384123.652	REFER TO STORMWATER PIT DETAILS ON SHEET C14
05	GRATED PIT	600	900	D	GM	300	43.248	300	43.298	0.912	44.160	345837.464	6384121.602	REFER TO STORMWATER PIT DETAILS ON SHEET C14
05A	GRATED PIT	900	900	D	GM	300	44.358	300	44.614	2.292	46.650	345835.757	6384111.144	REFER TO STORMWATER PIT DETAILS ON SHEET C14
06	GRATED PIT	900	900	D	GM	300	44.676	300	44.726	1.885	46.561	345832.867	6384092.853	REFER TO STORMWATER PIT DETAILS ON SHEET C14
07	GRATED PIT	900	900	D	GM	300	44.775	300	44.825	1.784	46.559	345830.568	6384078.405	REFER TO STORMWATER PIT DETAILS ON SHEET C14
08	GRATED PIT	900	900	D	GM	300	44.861	300	44.911	1.682	46.543	345828.876	6384067.764	REFER TO STORMWATER PIT DETAILS ON SHEET C14
09	GRATED PIT	900	900	D	GM	300	44.936	300	44.986	1.612	46.548	345835.842	6384065.376	REFER TO STORMWATER PIT DETAILS ON SHEET C14
10	GRATED PIT	900	900	D	GM	300	45.068	225	45.143	1.482	46.550	345860.303	6384061.498	REFER TO STORMWATER PIT DETAILS ON SHEET C14
11	GRATED PIT	900	900	D	GM	225	45.260	225	45.310	1.283	46.543	345883.327	6384057.864	REFER TO STORMWATER PIT DETAILS ON SHEET C14
12	GRATED PIT	600	900	D	GM	225	45.405	225	45.455	1.132	46.537	345902.021	6384054.894	REFER TO STORMWATER PIT DETAILS ON SHEET C14
13	GRATED PIT	600	900	D	GM	225	45.592	225	45.642	0.954	46.546	345928.991	6384050.632	REFER TO STORMWATER PIT DETAILS ON SHEET C14
14	GRATED PIT	600	600	D	GM	225	45.714			0.825	46.539	345943.107	6384048.404	REFER TO STORMWATER PIT DETAILS ON SHEET C14
15	GRATED PIT	600	900	D	GM	450	42.809	450	42.859	1.179	43.988	345851.692	6384162.575	REFER TO STORMWATER PIT DETAILS ON SHEET C14
16	GRATED PIT	600	900	D	GM	450	43.672	450	43.737	1.185	44.857	345889.779	6384148.379	REFER TO STORMWATER PIT DETAILS ON SHEET C14
								150	44.151					
								225	43.897					
17	GRATED PIT	900	900	D	GM	450	44.175	450	44.225	2.425	46.600	345909.995	6384119.788	REFER TO STORMWATER PIT DETAILS ON SHEET C14
								225	44.400					
								450	45.159					
18	GRATED PIT	900	900	D	GM	450	45.215	450	45.265	1.462	46.677	345907.759	6384114.658	REFER TO STORMWATER PIT DETAILS ON SHEET C14
19	GRATED PIT	600	900	D	GM	450	45.362	450	45.412	1.188	46.550	345904.723	6384095.422	REFER TO STORMWATER PIT DETAILS ON SHEET C14
								225	45.615					
20	GRATED PIT	600	900	D	GM	450	45.442	450	45.492	1.108	46.550	345901.490	6384090.477	REFER TO STORMWATER PIT DETAILS ON SHEET C14
								150	46.017					
								150	45.860					
21	GRATED PIT	600	900	D	GM	450	45.600	225	45.879	0.950	46.550	345880.106	6384093.815	REFER TO STORMWATER PIT DETAILS ON SHEET C14
								300	45.750					
								225	45.750					
22	GRATED PIT	600	600	D	GM	225	45.787	225	45.837	0.763	46.550	345878.990	6384086.413	REFER TO STORMWATER PIT DETAILS ON SHEET C14
23	GRATED PIT	600	600	D	GM	225	45.950			0.600	46.550	345856.574	6384089.163	REFER TO STORMWATER PIT DETAILS ON SHEET C14
24	GRATED PIT	600	600	D	GM	300	45.779	225	45.854	0.771	46.550	345881.110	6384099.525	REFER TO STORMWATER PIT DETAILS ON SHEET C14
25	GRATED PIT	600	600	D	GM	225	45.950			0.600	46.550	345862.207	6384102.472	REFER TO STORMWATER PIT DETAILS ON SHEET C14
26	GRATED PIT	900	900	D	GM	450	44.502	300	44.791	2.058	46.561	345936.003	6384110.135	REFER TO STORMWATER PIT DETAILS ON SHEET C14
								150	44.811					
27	GRATED PIT	900	900	D	GM	300	44.870	300	44.920	1.712	46.582	345951.695	6384108.432	REFER TO STORMWATER PIT DETAILS ON SHEET C14
28	GRATED PIT	900	900	D	GM	300	45.015	300	45.065	1.384	46.399	345969.557	6384101.765	REFER TO STORMWATER PIT DETAILS ON SHEET C14
29	GRATED PIT	900	900	D	GM	300	45.119	300	45.169	1.220	46.339	345968.660	6384091.027	REFER TO STORMWATER PIT DETAILS ON SHEET C14
								225	45.570					
								150	45.686					
30	GRATED PIT	600	600	D	GM	225	45.687	225	45.737	0.806	46.493	345961.399	6384081.873	REFER TO STORMWATER PIT DETAILS ON SHEET C14
31	GRATED PIT	600	600	D	GM	225	45.805			0.754	46.559	345951.327	6384079.589	REFER TO STORMWATER PIT DETAILS ON SHEET C14
32	GRATED PIT	600	600	D	GM	300	45.321	150	45.471	0.853	46.173	345966.286	6384060.797	REFER TO STORMWATER PIT DETAILS ON SHEET C14
33	GRATED PIT	600	600	D	GM	150	45.560			0.750	46.310	345961.743	6384048.195	REFER TO STORMWATER PIT DETAILS ON SHEET C14
34	GRATED PIT	600	600	D	GM	225	45.712	225	45.762	0.838	46.550	345923.816	6384092.361	REFER TO STORMWATER PIT DETAILS ON SHEET C14
35	GRATED PIT	600	600	D	GM	225	45.844	150	45.919	0.706	46.550	345921.273	6384076.250	REFER TO STORMWATER PIT DETAILS ON SHEET C14
36	GRATED PIT	600	600	D	GM	150	45.975			0.575	46.550	345910.154	6384077.961	REFER TO STORMWATER PIT DETAILS ON SHEET C14
37	GRATED PIT	600	600	D	GM	150	45.896	150	45.946	0.654	46.550	345906.388	6384088.083	REFER TO STORMWATER PIT DETAILS ON SHEET C14
38	GRATED PIT	600	600	D	GM	150	46.000			0.550	46.550	345913.896	6384085.035	REFER TO STORMWATER PIT DETAILS ON SHEET C14
39	GRATED PIT	600	600	D	GM	225	45.975			0.575	46.550	345861.217	6384096.732	REFER TO STORMWATER PIT DETAILS ON SHEET C14
40	GRATED PIT	600	600	D	GM	150	45.798			0.742	46.540	345975.964	6384082.544	REFER TO STORMWATER PIT DETAILS ON SHEET C14
41	GRATED PIT	600	600	D	GM	150	46.049			0.501	46.550	345900.533	6384084.174	REFER TO STORMWATER PIT DETAILS ON SHEET C14
42	GRATED PIT	600	600	D	GM	150	44.844			0.697	45.541	345936.440	6384113.408	REFER TO STORMWATER PIT DETAILS ON SHEET C14
43	GRATED PIT	900	900	D	GM	150	45.064	150	45.724	1.486	46.550	345887.318	6384139.592	REFER TO STORMWATER PIT DETAILS ON SHEET C14
44	GRATED PIT	900	900	D	GM	150	45.931			0.619	46.550	345866.910	6384142.846	REFER TO STORMWATER PIT DETAILS ON SHEET C14

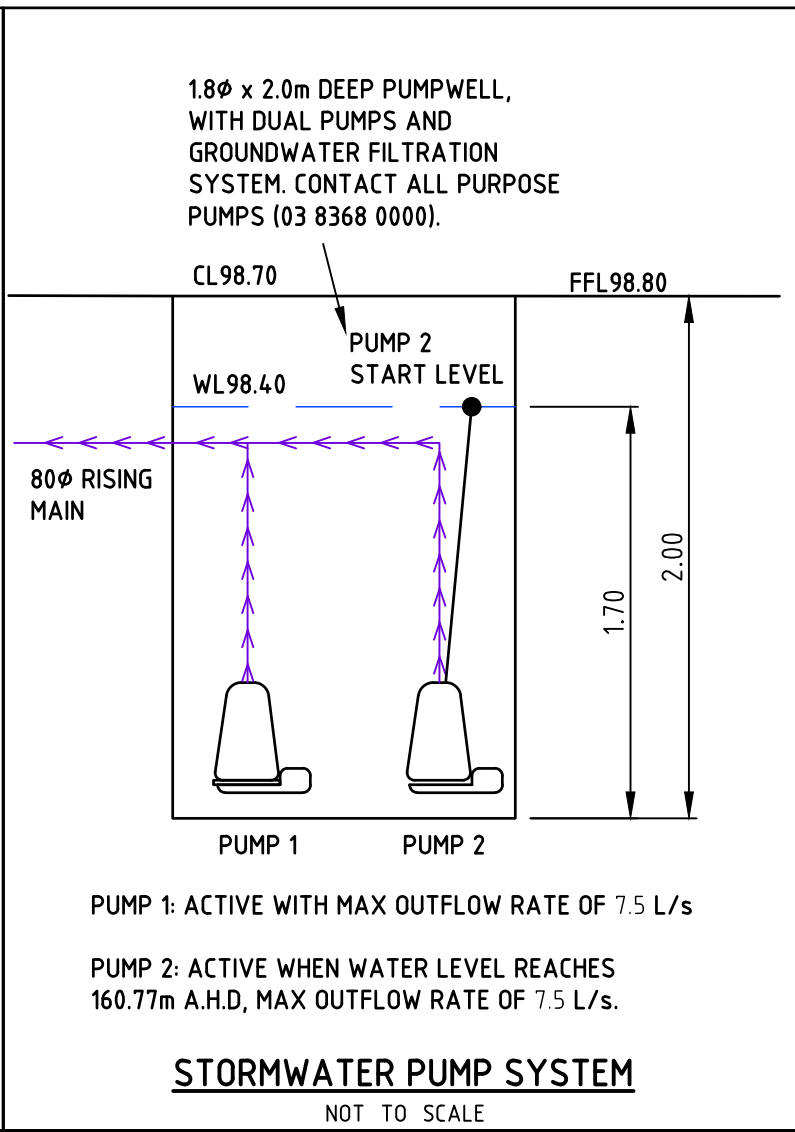
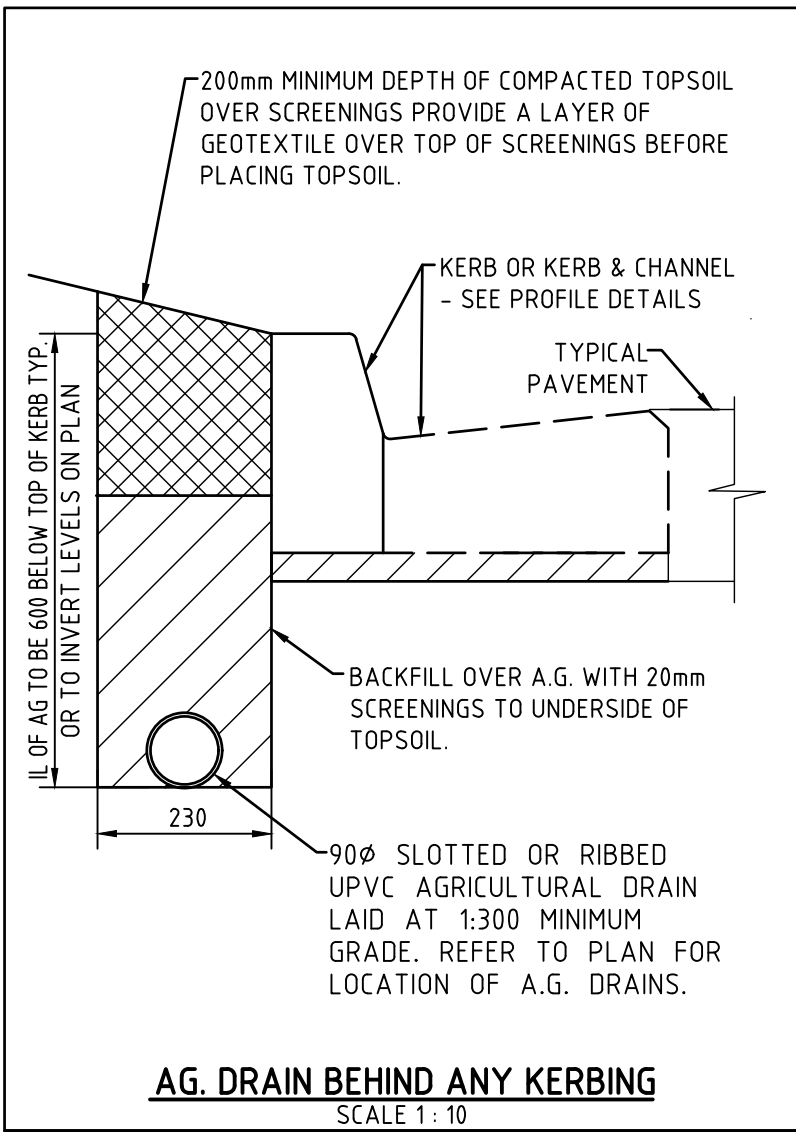
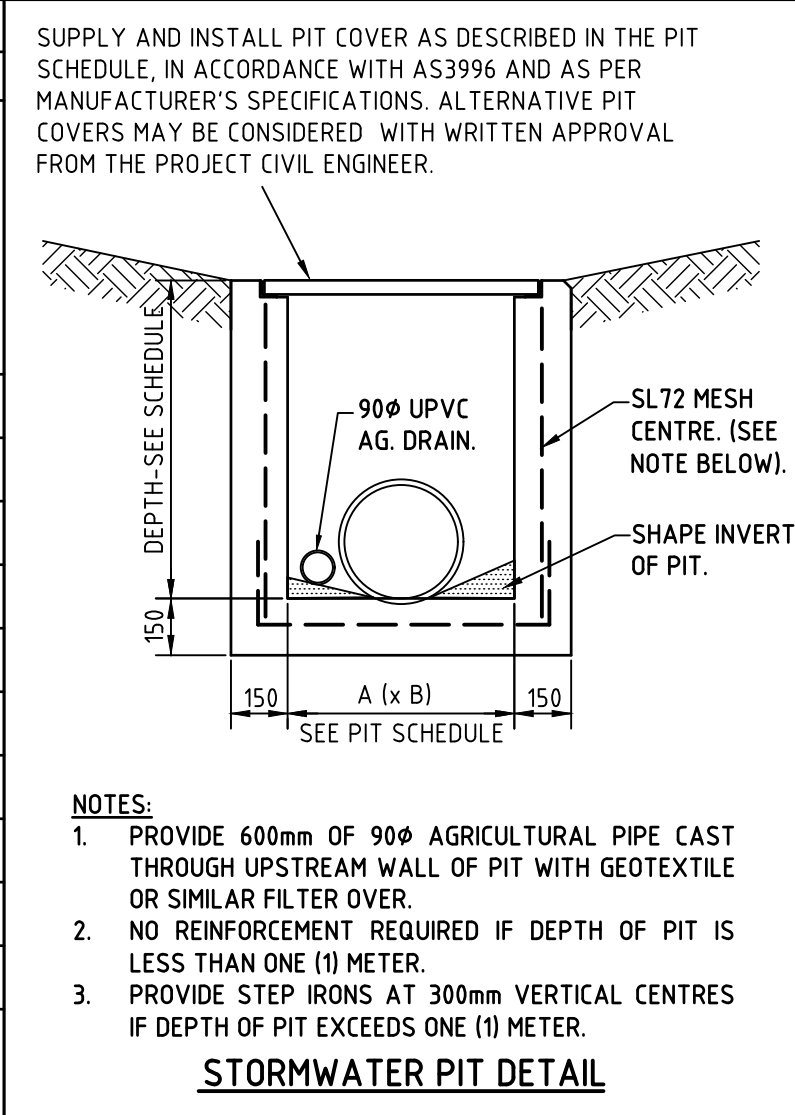
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P2	COORDINATION ISSUE	14/06/24			
P1	PRELIMINARY ISSUE	06/03/24			
NO	REVISION	DATE	NO	REVISION	DATE



POD PAVER TYPICAL DRAINAGE ARRANGEMENT

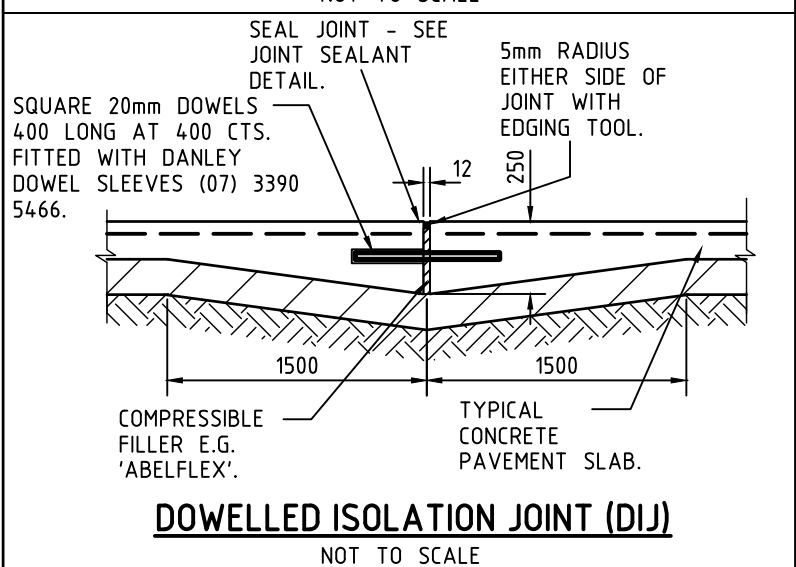
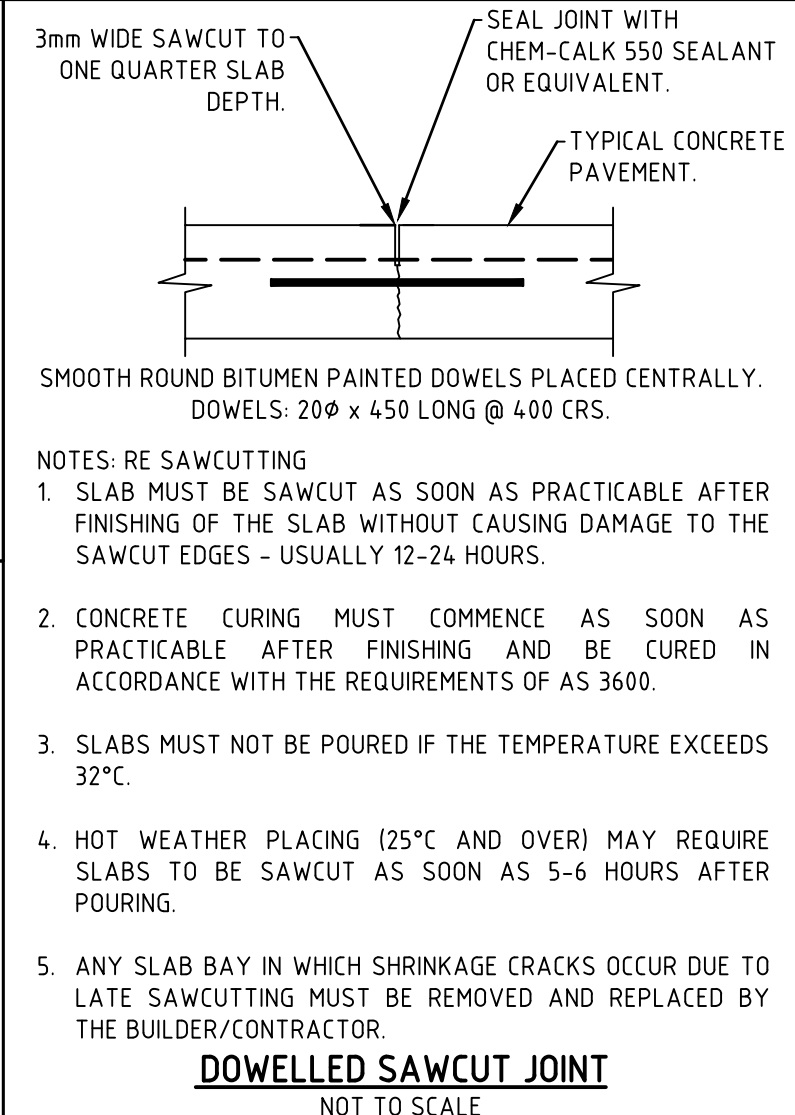
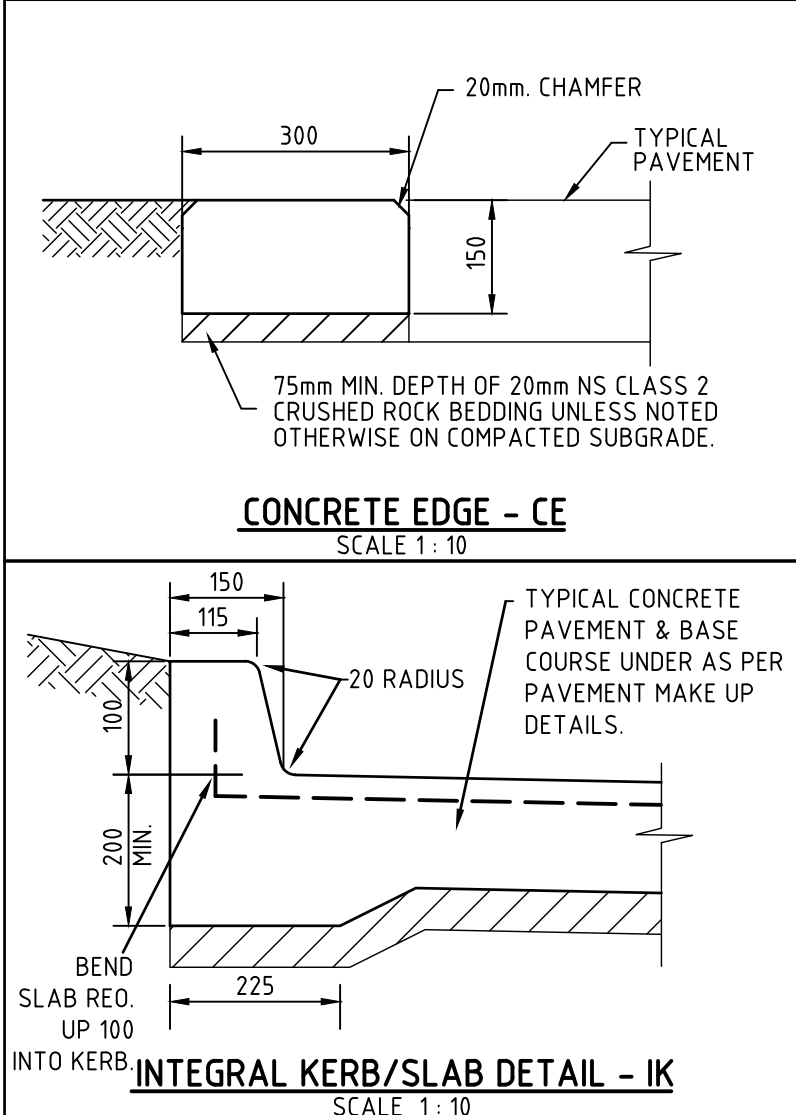
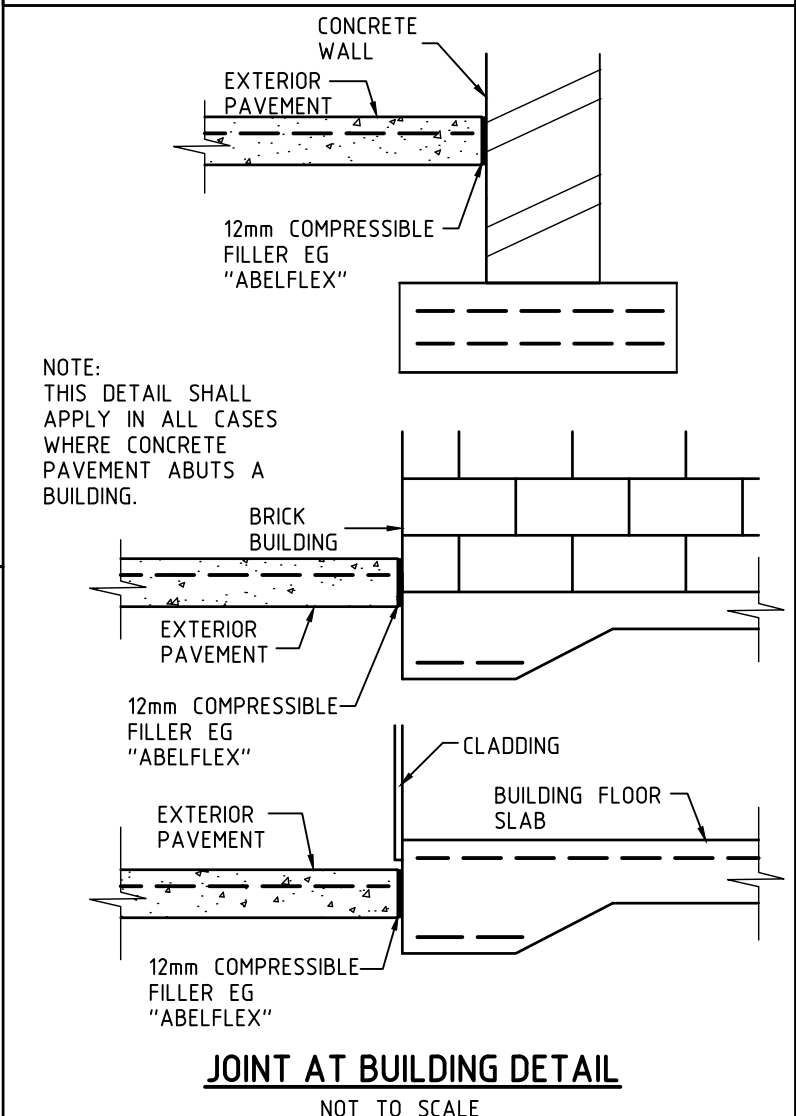


COVER CLASS	COVER TYPE							
A = PEDESTRIAN AREAS B = LIGHT DUTY C = MEDIUM DUTY D = HEAVY DUTY E = EXTRA HEAVY DUTY F = EXTRA HEAVY DUTY G = EXTRA HEAVY DUTY	MCI	GM	RC	PG	PP	TG	PT	TF
SUPPLIERS	METAL & CONCRETE INFILL PIT COVERS	GALVANISED STEEL OR CAST IRON GRATES	PRECAST CONCRETE PIT COVERS	POLYPROPYLENE GRATED COVERS	PREFORMED PITS	TRENCH GRATES	PRECAST TRENCHES	TERRA FIRMA COVERS
GATIC Ph. 1800 335 303	•	•	•	•	•	•	•	•
S.V.C. Ph. 03 9580 4355	•	•	•	•	•	•	•	•
HK METAL PRODUCTS Ph. 03 9580 2402	•	•	•	•	•	•	•	•
AUS PITS Ph. 03 5222 4526	•	•	•	•	•	•	•	•
EVERHARD Ph. 13 19 26	•	•	•	•	•	•	•	•
ACO POLYCRETE Ph. 03 9795 3666	•	•	•	•	•	•	•	•
R&S GRATING Ph. 03 9238 5888	•	•	•	•	•	•	•	•
ALEX FRASER Ph. 03 9369 7388	•	•	•	•	•	•	•	•
TERRA FIRMA INDUSTRIES Ph. 03 9464 6169	•	•	•	•	•	•	•	•
ALL PIT COVERS AND GRATES MUST COMPLY WITH AS3996-2006 "ACCESS COVERS AND GRATES"								
SUPPLIERS OF PIT COVERS & PREFORMED PITS								



- SLAB MUST BE SAWCUT AS SOON AS PRACTICABLE AFTER FINISHING OF THE SLAB WITHOUT CAUSING DAMAGE TO THE SAWCUT EDGES - USUALLY 12-24 HOURS.
- SLABS MUST NOT BE POURED IF THE TEMPERATURE EXCEEDS 32°C.
- HOT WEATHER PLACING (25°C AND OVER) MAY REQUIRE SLABS TO BE SAWCUT AS SOON AS 5-6 HOURS AFTER POURING.
- ANY SLAB BAY IN WHICH SHRINKAGE CRACKS OCCUR DUE TO LATE SAWCUTTING MUST BE REMOVED AND REPLACED BY THE BUILDER/CONTRACTOR.

NOTES: RE SAWCUTTING



NO	REVISION	DATE	NO	REVISION	DATE
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P1	PRELIMINARY ISSUE	06/03/24			

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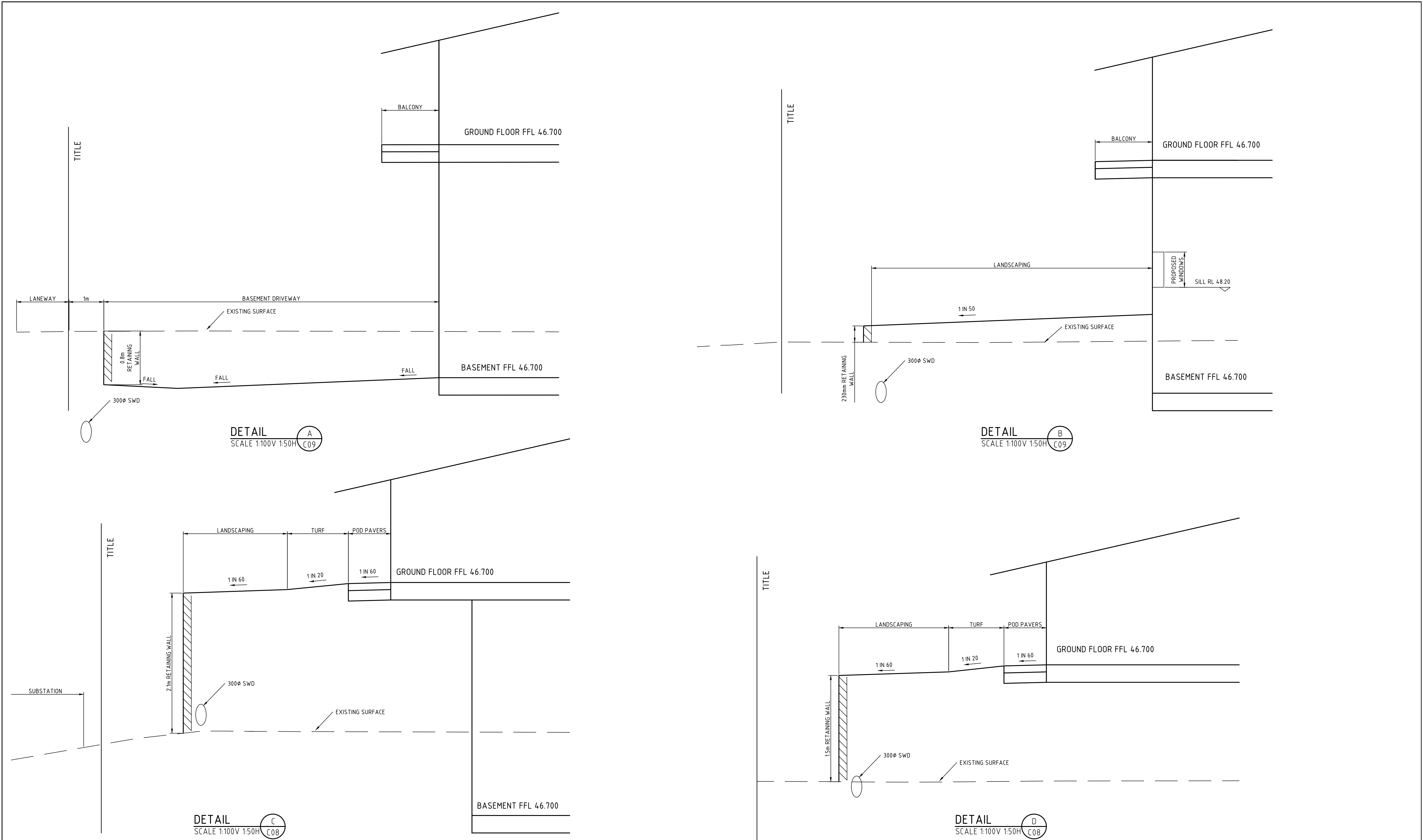
Lanigan Civil
Patama Pty Ltd (ABN: 79 108 035 463)
Trading as Lanigan Civil
Consulting Civil Engineers
Unit 4, 7-9 Hail Street, Braeside VIC 3195
Tel: 03 9558 4380 Fax: 03 9587 9707
Email: admin@lanicivil.com.au

STORMWATER
DETAILS

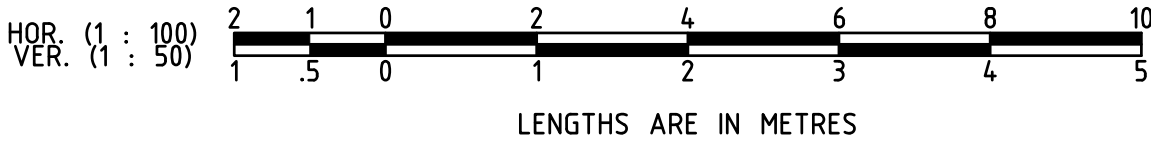
HUNTLEE
AGED CARE FACILITY

107 KESTERTON RISE, BRANXTON,
NSW, 2335

NORTH	DESIGNED MJL	DRAWN MJL	CHECKED NJC
	DATE 27-07-23	SCALE/S	AS NOTED
	DRG NO LC2667-C14	ISSUE A	



TYPICAL SITE SECTIONS



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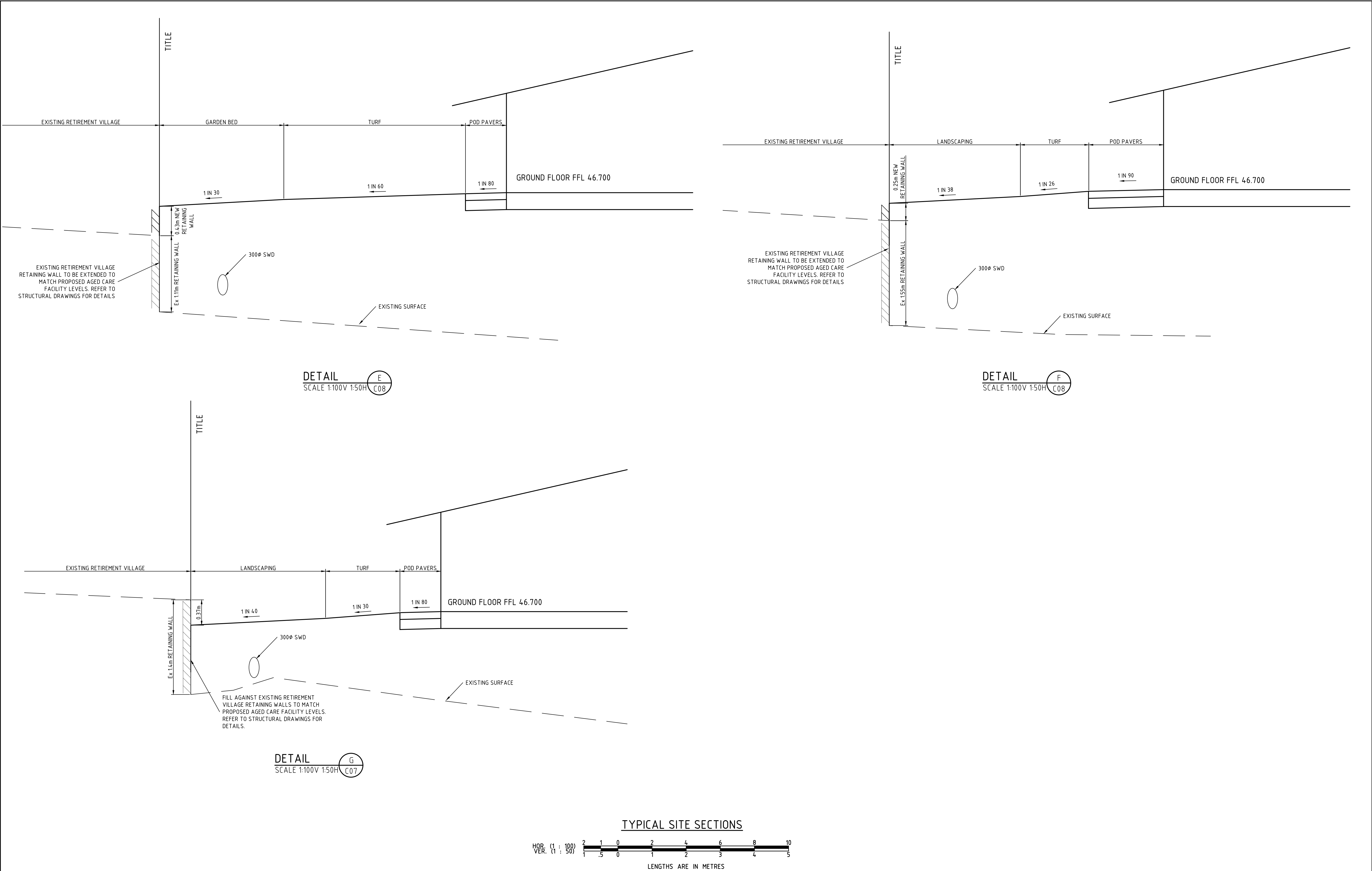


Lanigan Civil
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Email: admin@lancivil.com.au

TYPICAL SECTIONS
SHEET 1 OF 3
WESTERN BOUNDARY

HUNTLEE
AGED CARE FACILITY
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NSW, 2335

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	DATE 27-07-23	SCALE/S AS NOTED	
	DRG NO LC2667-C15	ISSUE A	



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TYPICAL SECTIONS

SHEET 2 OF 3

SOUTHERN BOUNDARY

HUNTLEE

AGED CARE FACILITY

107 KESTERTON RISE, BRANXTON,

NSW, 2335

NORTH

DESIGNED

MJL

DRAWN

MJL

CHECKED

NJC

DATE

27-07-23

SCALE/S

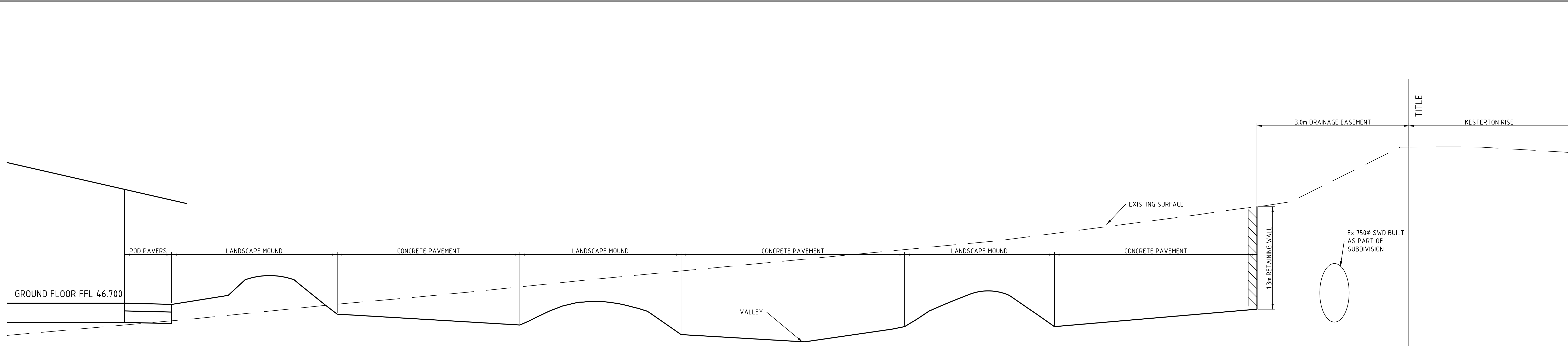
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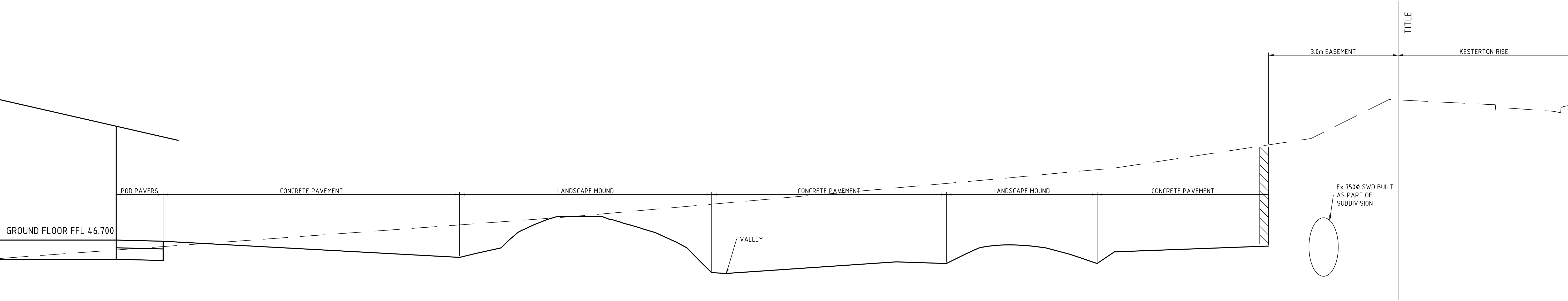
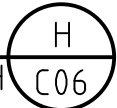
LC2667-C16

ISSUE

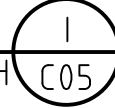
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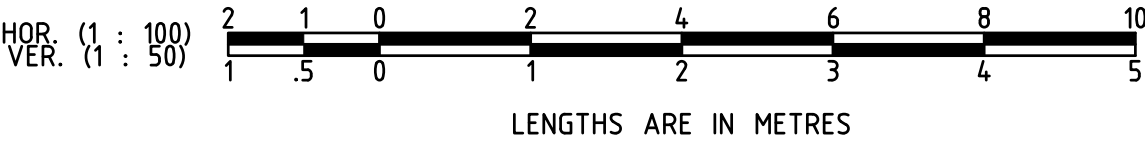
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TYPICAL SITE SECTIONS



LENGTHS ARE IN METRES

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TYPICAL SECTIONS
SHEET 3 OF 3
EASTERN BOUNDARY

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AGED CARE FACILITY

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	DATE 27-07-23	SCALE/S AS NOTED	
	DRG NO LC2667-C17	ISSUE A	