SENIORS COMMUNITY

LOT 602 DP 1277714 LAKEWOOD DRIVE, MERIMBULA **INTERNAL CIVIL WORKS**







DRAWING SCHEDULE

DRAWING	TITLE

COVER SHEET

SOIL & WATER MANAGEMENT PLAN SOIL & WATER MANAGEMENT DETAILS

BULK EARTHWORKS PLAN

STORMWATER MANAGEMENT & LEVELS PLAN

LONG SECTIONS

TYPICAL SECTIONS - SHEET 1 TYPICAL SECTIONS - SHEET 2 TYPICAL SECTIONS - SHEET 3 CIVIL DETAILS - SHEET 1

NOT FOR CONSTRUCTION

DESCRIPTION JUSTICE FOX PROPERTY GROUP DEVELOPMENT APPLICATION DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION CONSULTING ENGINEERS PTY LTD.

DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS
TRANSFERRED ELECTRONICALLY.

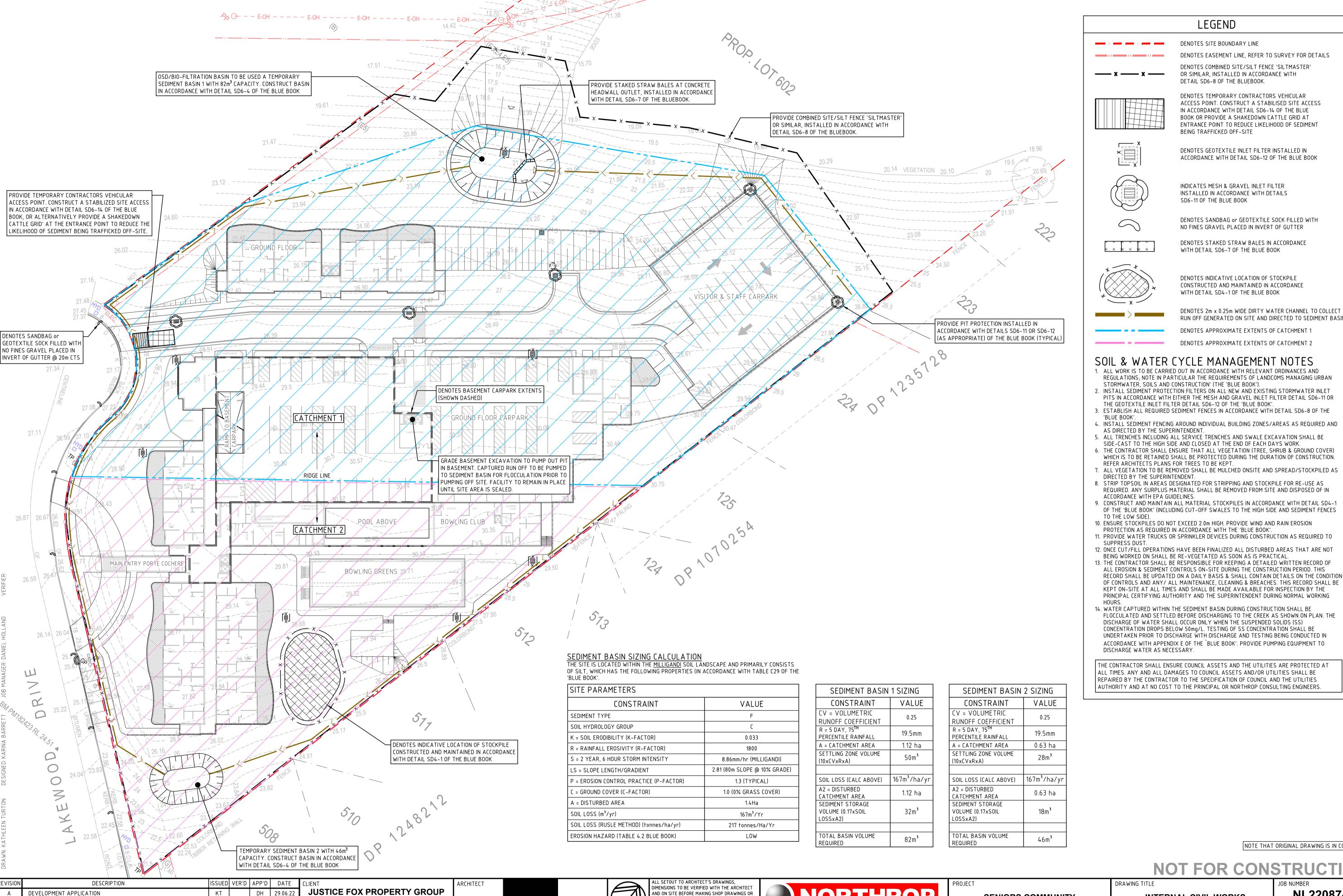


Ph (02) 4365 1668 Fax (02) 4367 6555

Email centralcoast@northrop.com.au ABN 81 094 433 100

SENIORS COMMUNITY LOT 602 DP 1277714 LAKEWOOD DRIVE, MERIMBULA INTERNAL CIVIL WORKS **COVER SHEET**

NL220874 DRAWING NUMBER



DENOTES EASEMENT LINE, REFER TO SURVEY FOR DETAILS DENOTES COMBINED SITE/SILT FENCE 'SILTMASTER' OR SIMILAR, INSTALLED IN ACCORDANCE WITH DENOTES TEMPORARY CONTRACTORS VEHICULAR ACCESS POINT. CONSTRUCT A STABILISED SITE ACCESS

DENOTES GEOTEXTILE INLET FILTER INSTALLED IN

INDICATES MESH & GRAVEL INLET FILTER INSTALLED IN ACCORDANCE WITH DETAILS

NO FINES GRAVEL PLACED IN INVERT OF GUTTER

CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH DETAIL SD4-1 OF THE BLUE BOOK

RUN OFF GENERATED ON SITE AND DIRECTED TO SEDIMENT BASIN

DENOTES APPROXIMATE EXTENTS OF CATCHMENT 2

1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT ORDINANCES AND REGULATIONS; NOTE IN PARTICULAR THE REQUIREMENTS OF LANDCOMS MANAGING URBAN

- 2. INSTALL SEDIMENT PROTECTION FILTERS ON ALL NEW AND EXISTING STORMWATER INLET PITS IN ACCORDANCE WITH EITHER THE MESH AND GRAVEL INLET FILTER DETAIL SD6-11 OR
- 3. ESTABLISH ALL REQUIRED SEDIMENT FENCES IN ACCORDANCE WITH DETAIL SD6-8 OF THE
- 4. INSTALL SEDIMENT FENCING AROUND INDIVIDUAL BUILDING ZONES/AREAS AS REQUIRED AND
- 5. ALL TRENCHES INCLUDING ALL SERVICE TRENCHES AND SWALE EXCAVATION SHALL BE SIDE-CAST TO THE HIGH SIDE AND CLOSED AT THE END OF EACH DAYS WORK.
- 6. THE CONTRACTOR SHALL ENSURE THAT ALL VEGETATION (TREE, SHRUB & GROUND COVER) WHICH IS TO BE RETAINED SHALL BE PROTECTED DURING THE DURATION OF CONSTRUCTION.
- 7. ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ONSITE AND SPREAD/STOCKPILED AS
- 8. STRIP TOPSOIL IN AREAS DESIGNATED FOR STRIPPING AND STOCKPILE FOR RE-USE AS REQUIRED. ANY SURPLUS MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN
- 9. CONSTRUCT AND MAINTAIN ALL MATERIAL STOCKPILES IN ACCORDANCE WITH DETAIL SD4-1 OF THE 'BLUE BOOK' (INCLUDING CUT-OFF SWALES TO THE HIGH SIDE AND SEDIMENT FENCES
- 10. ENSURE STOCKPILES DO NOT EXCEED 2.0m HIGH. PROVIDE WIND AND RAIN EROSION
- 11. PROVIDE WATER TRUCKS OR SPRINKLER DEVICES DURING CONSTRUCTION AS REQUIRED TO
- 12. ONCE CUT/FILL OPERATIONS HAVE BEEN FINALIZED ALL DISTURBED AREAS THAT ARE NOT
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A DETAILED WRITTEN RECORD OF ALL EROSION & SEDIMENT CONTROLS ON-SITE DURING THE CONSTRUCTION PERIOD. THIS RECORD SHALL BE UPDATED ON A DAILY BASIS & SHALL CONTAIN DETAILS ON THE CONDITION OF CONTROLS AND ANY/ ALL MAINTENANCE, CLEANING & BREACHES. THIS RECORD SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE
- 14. WATER CAPTURED WITHIN THE SEDIMENT BASIN DURING CONSTRUCTION SHALL BE FLOCCULATED AND SETTLED BEFORE DISCHARGING TO THE CREEK AS SHOWN ON PLAN. THE DISCHARGE OF WATER SHALL OCCUR ONLY WHEN THE SUSPENDED SOLIDS (SS) CONCENTRATION DROPS BELOW 50mg/L. TESTING OF SS CONCENTRATION SHALL BE UNDERTAKEN PRIOR TO DISCHARGE WITH DISCHARGE AND TESTING BEING CONDUCTED IN ACCORDANCE WITH APPENDIX E OF THE BLUE BOOK'. PROVIDE PUMPING EQUIPMENT TO

THE CONTRACTOR SHALL ENSURE COUNCIL ASSETS AND THE UTILITIES ARE PROTECTED AT ALL TIMES. ANY AND ALL DAMAGES TO COUNCIL ASSETS AND/OR UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SPECIFICATION OF COUNCIL AND THE UTILITIES AUTHORITY AND AT NO COST TO THE PRINCIPAL OR NORTHROP CONSULTING ENGINEERS.

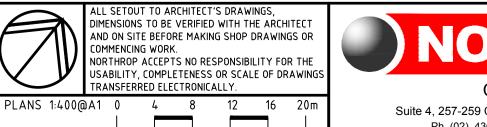
NOTE THAT ORIGINAL DRAWING IS IN COLOUR

NOT FOR CONSTRUCTION

DEVELOPMENT APPLICATION COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS
TRANSFERRED ELECTRONICALLY. Central Coast Suite 4, 257-259 Central Coast Hwy, Erina NSW 2250 Ph (02) 4365 1668 Fax (02) 4367 6555 DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION

CONSULTING ENGINEERS PTY LTD.

SIGNATURE HAS BEEN ADDED





Email centralcoast@northrop.com.au ABN 81 094 433 100

SENIORS COMMUNITY LOT 602 DP 1277714 LAKEWOOD DRIVE, MERIMBULA

INTERNAL CIVIL WORKS SOIL & WATER CYCLE

MANAGEMENT PLAN

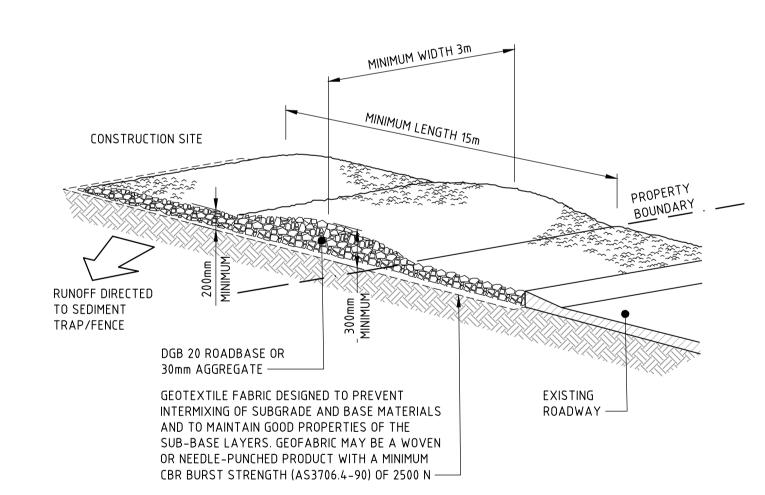
NL220874

DRAWING NUMBER

CONSTRUCTION NOTES

- 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 150mm 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 150mm OVERLAP.
- 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

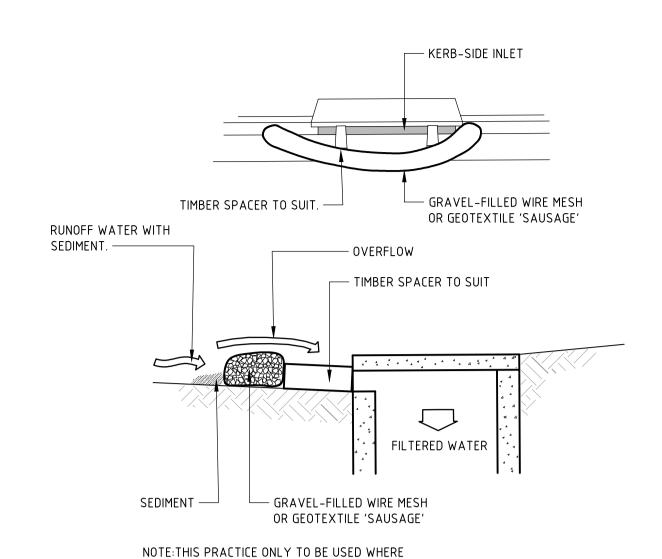
SEDIMENT FENCE (SD 6-8)



CONSTRUCTION NOTES

- 1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
- 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm 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)



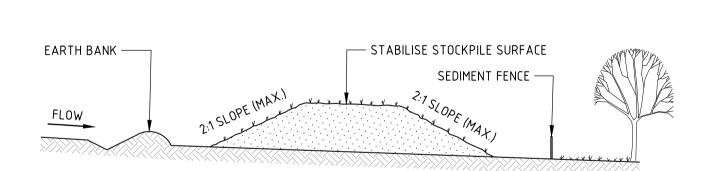
CONSTRUCTION NOTES

- 1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
- 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.

SPECIFIED IN APPROVED SWMP/ESCP.

- 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- 6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

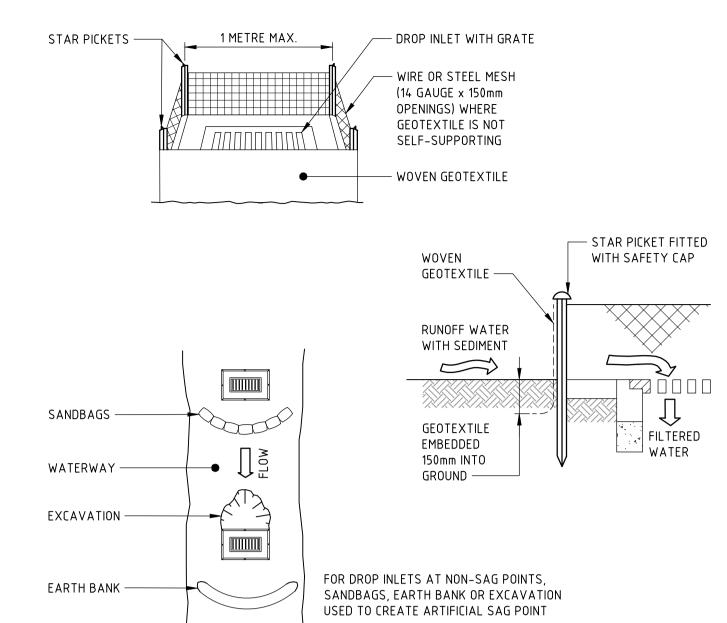
MESH AND GRAVEL INLET FILTER (SD 6-11)



CONSTRUCTION NOTES

- PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
- 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.
- 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 2m DOWNSLOPE.

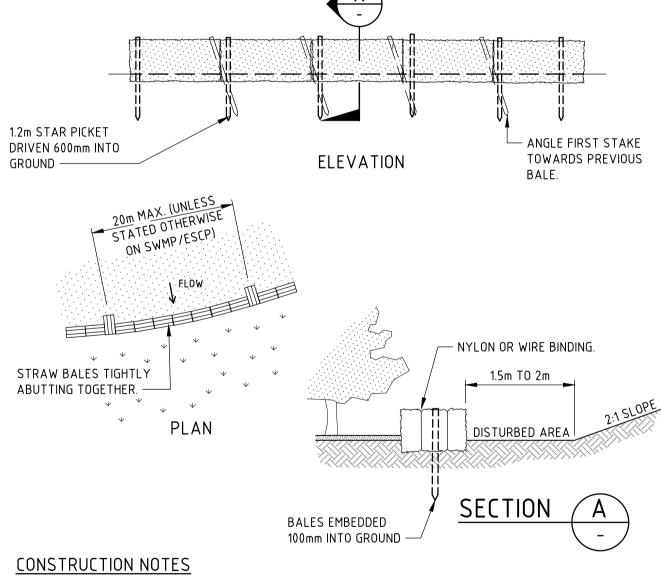
STOCKPILES (SD 4-1)



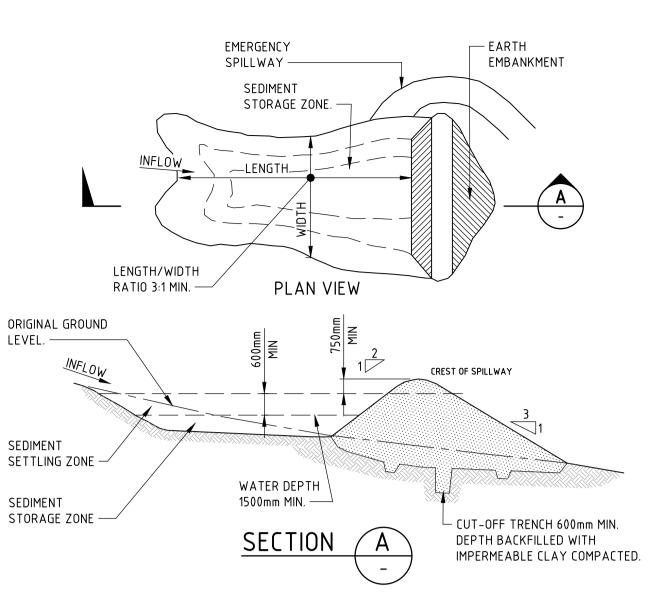
CONSTRUCTION NOTES

- 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)



- 1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE
- 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN
- BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND. 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
- 4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
- 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
- 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.



CONSTRUCTION NOTES

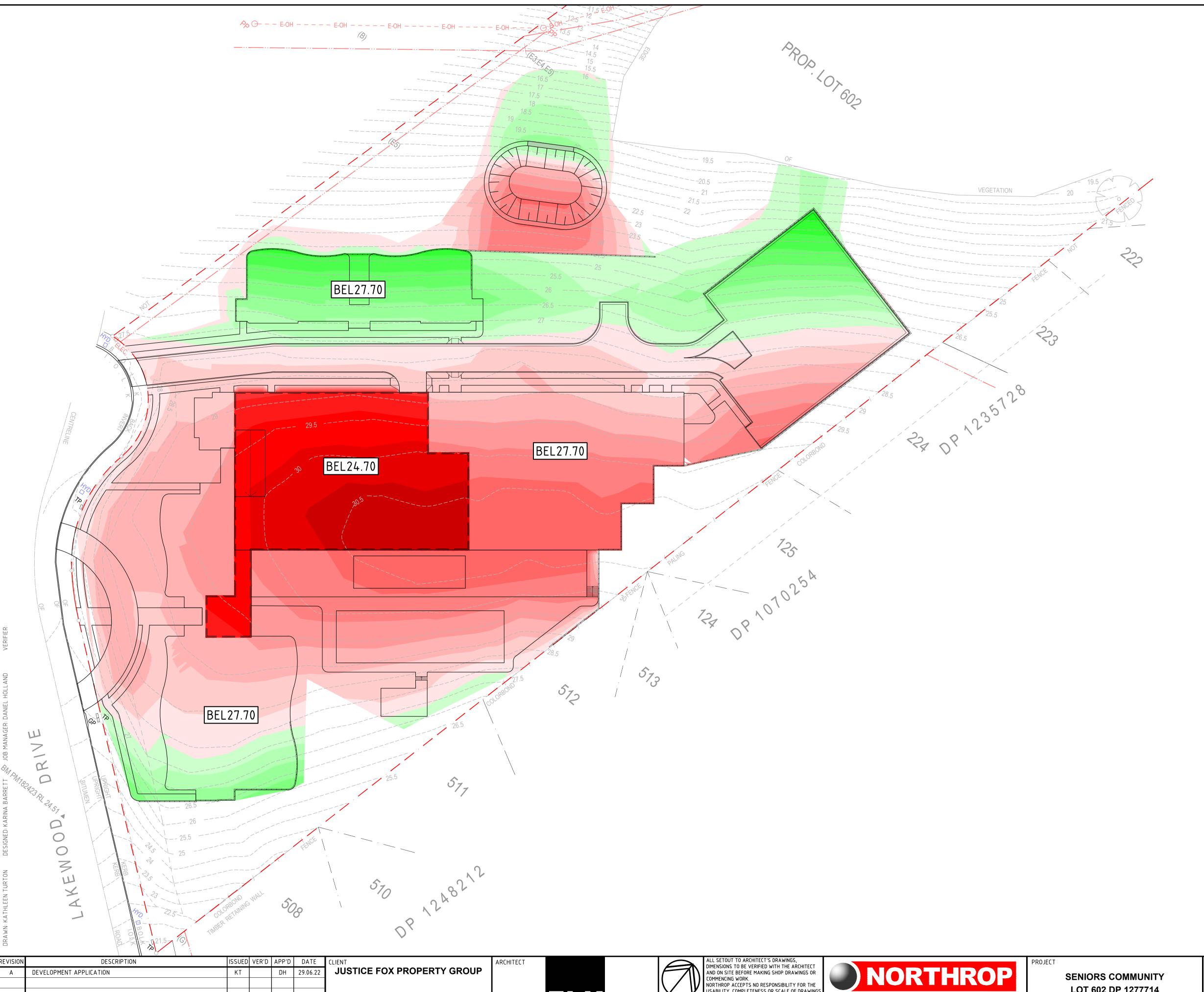
- REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA. 2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT
- EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
- MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT 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.
- PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
- 6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE
- CONSTRUCT THE EMERGENCY SPILLWAY.
- 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY) EARTH BASIN - WET (SD 6-4)

STRAW BALE FILTER (SD 6-7)

NOT FOR CONSTRUCTION

DESCRIPTION ISSUED VER'D APP'D DATE ARCHITECT DRAWING TITLE IMENSIONS TO BE VERIFIED WITH THE ARCHITECT JUSTICE FOX PROPERTY GROUP DH 29.06.22 NL220874 DEVELOPMENT APPLICATION AND ON SITE BEFORE MAKING SHOP DRAWINGS OF **SENIORS COMMUNITY** INTERNAL CIVIL WORKS COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE LOT 602 DP 1277714 **SOIL & WATER MANAGEMENT** DRAWING NUMBER USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. Central Coast LAKEWOOD DRIVE, MERIMBULA **DETAILS** Suite 4, 257-259 Central Coast Hwy, Erina NSW 2250 Ph (02) 4365 1668 Fax (02) 4367 6555 DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION Email centralcoast@northrop.com.au ABN 81 094 433 100 SIGNATURE HAS BEEN ADDED CONSULTING ENGINEERS PTY LTD. DRAWING SHEET SIZE = A1



BULK EARTHWORKS PLAN

DENOTES EXISTING CONTOUR LINES

BEL24.70

DENOTES BUILDING BULK EARTHWORKS LEVEL

Number	Color	Minimum Elevation (m)	Maximum Elevatio (m)		
1		-6.000	-5.500		
2		-5.500	-5.000		
3		-5.000	-4.500		
4		-4.500	-4.000		
5		-4.000	-3.500		
6		-3.500	-3.000		
7		-3.000	-2.500		
8		-2.500	-2.000		
9		-2.000	-1.500		
10		-1.500	-1.000		
11		-1.000	-0.500		
12		-0.500	0.000		
13		0.000	0.500		
14		0.500	1.000		
15		1.000	1.500		
16		1.500	2.000		
17		2.000	2.500		
18		2.500	3.000		
19		3.000	3.500		
20		3.500	4.000		
21		4.000	4.500		

BULK EARTHWORKS NOTES

- BULK EARTHWORKS LEVELS SHOWN ARE BASED ON THE FOLLOWING PAVEMENT THICKNESSES AND ALLOWANCES:
- TRAFFICABLE CONCRETE PAVEMENT
- STRUCTURAL BUILDING SLAB - NON-TRAFFICABLE PAVEMENTS
- 2. BULKING FACTORS OF 1.0 WAS USED FOR BOTH CUT AND FILL MATERIAL
- 3. THE APPROXIMATE SITE EARTHWORKS VOLUMES BASED ON THE NOTED PAVEMENT THICKNESSES ARE OUTLINED BELOW:

300mm

150mm

150mm

 CUT: 20,900m³ FILL: 3,800m³

LANDSCAPE TOPSOIL & TURF

- NET: 17,100m³ (CUT)
- 5. THE ABOVE VOLUMES ARE TO BE ASSESS NOTING THE FOLLOWING: - NO ALLOWANCE HAS BEEN MADE FOR DETAILED EXCAVATIONS SUCH AS
 - FOOTINGS, SET DOWNS, SERVICES TRENCHING ETC. - NO ALLOWANCE HAS BEEN MADE FOR TEMPORARY CONSTRUCTION PLATFORMS
- OR RETAINING WALL BACK FILL
- EXISTING TOPSOIL ON SITE HAS BEEN ASSUMED TO BE 150mm THICK AND IS NOT INCLUDED IN THE ABOVE VOLUMES

AND QUANTITIES AND PERFORM THEIR OWN BULK EARTHWORKS ASSESSMENT.

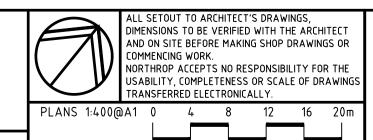
6. THIS PLAN HAS BEEN PREPARED FOR INFORMATION PURPOSES ONLY AND IS INDICATIVE IN NATURE. THE EARTHWORKS CONTRACTOR IS TO VERIFY ALL LEVELS

NOTE THAT ORIGINAL DRAWING IS IN COLOUR



|--|

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION CONSULTING ENGINEERS PTY LTD.





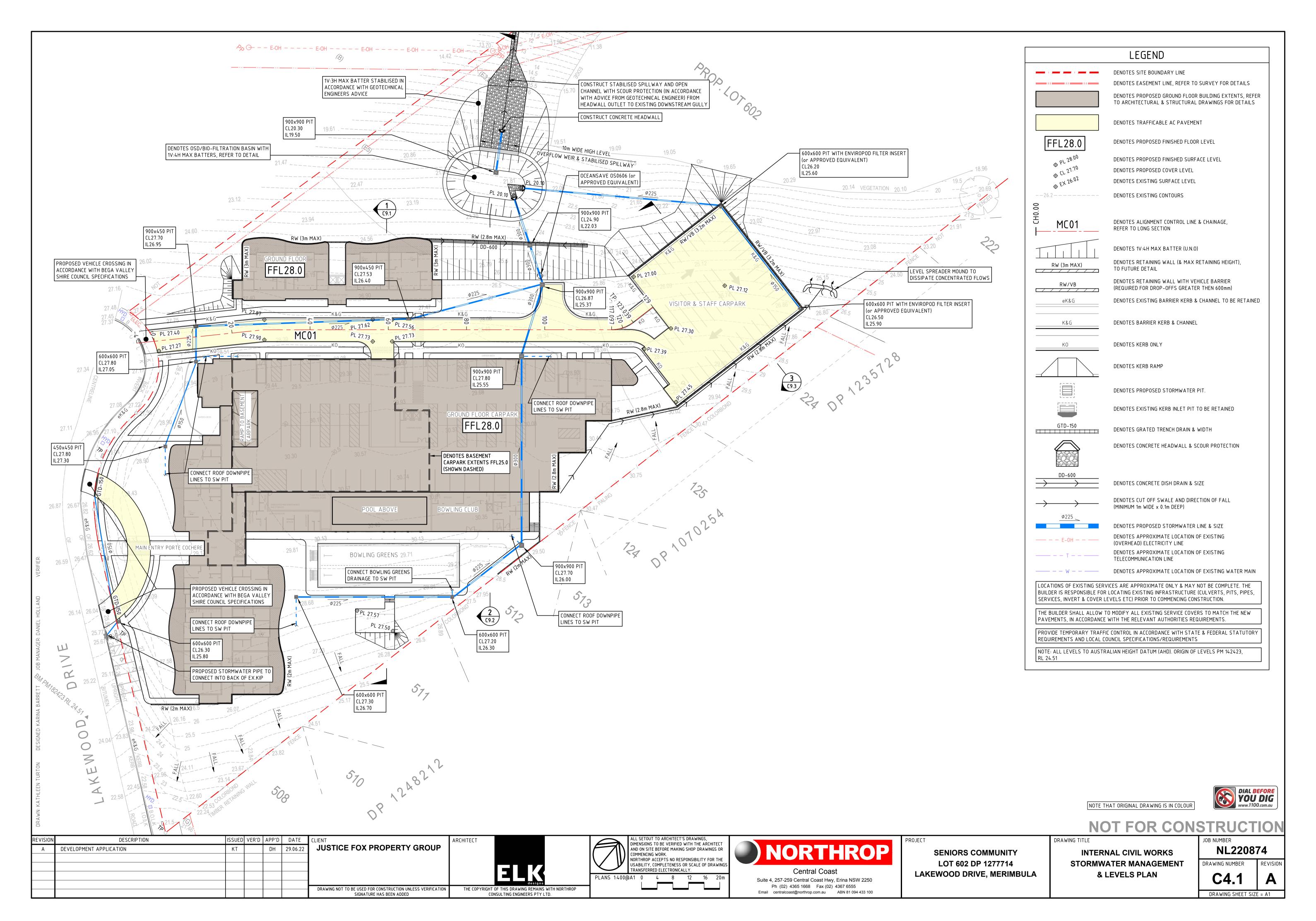
Ph (02) 4365 1668 Fax (02) 4367 6555

Email centralcoast@northrop.com.au ABN 81 094 433 100

LOT 602 DP 1277714 LAKEWOOD DRIVE, MERIMBULA

DRAWING TITLE

INTERNAL CIVIL WORKS BULK EARTHWORKS PLAN JOB NUMBER NL220874 DRAWING NUMBER



LAKEWOOD DRIVE 2.8%

DESCRIPTION DH 29.06.22 DEVELOPMENT APPLICATION

JUSTICE FOX PROPERTY GROUP DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION
SIGNATURE HAS BEEN ADDED CONSULTING ENGINEERS PTY LTD.

ALL SETOUT TO ARCHITECT'S DRAWINGS,
DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT
AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. VERT 1:40@A1 0 400 800 1.2 1.6 2m HORIZ 1:200@A1 0 2 4 6 8 10m



SENIORS COMMUNITY LOT 602 DP 1277714 LAKEWOOD DRIVE, MERIMBULA

TURNING HEAD

DRAWING TITLE INTERNAL CIVIL WORKS LONG SECTION

NL220874 DRAWING NUMBER

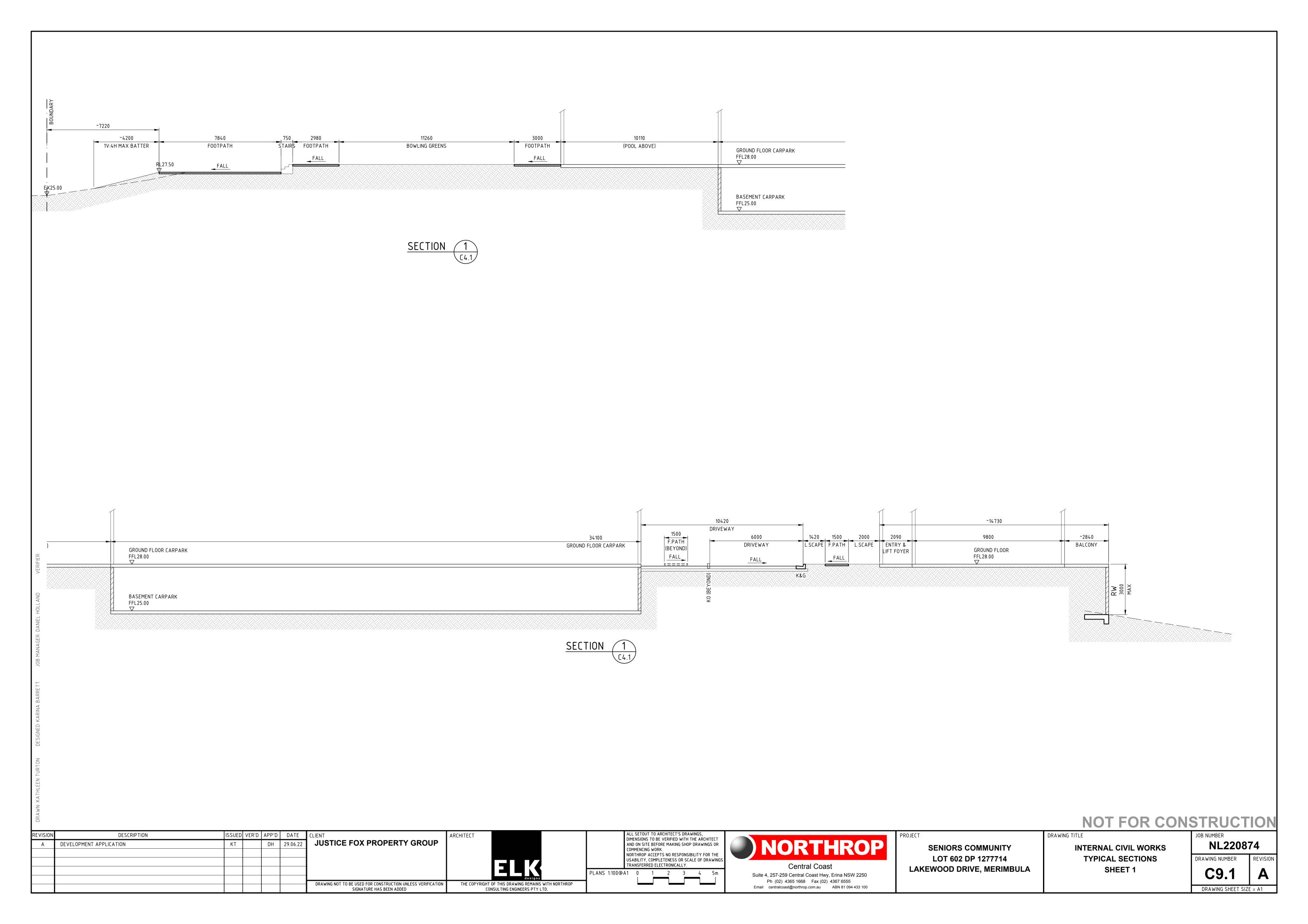
DRAWING SHEET SIZE = A1

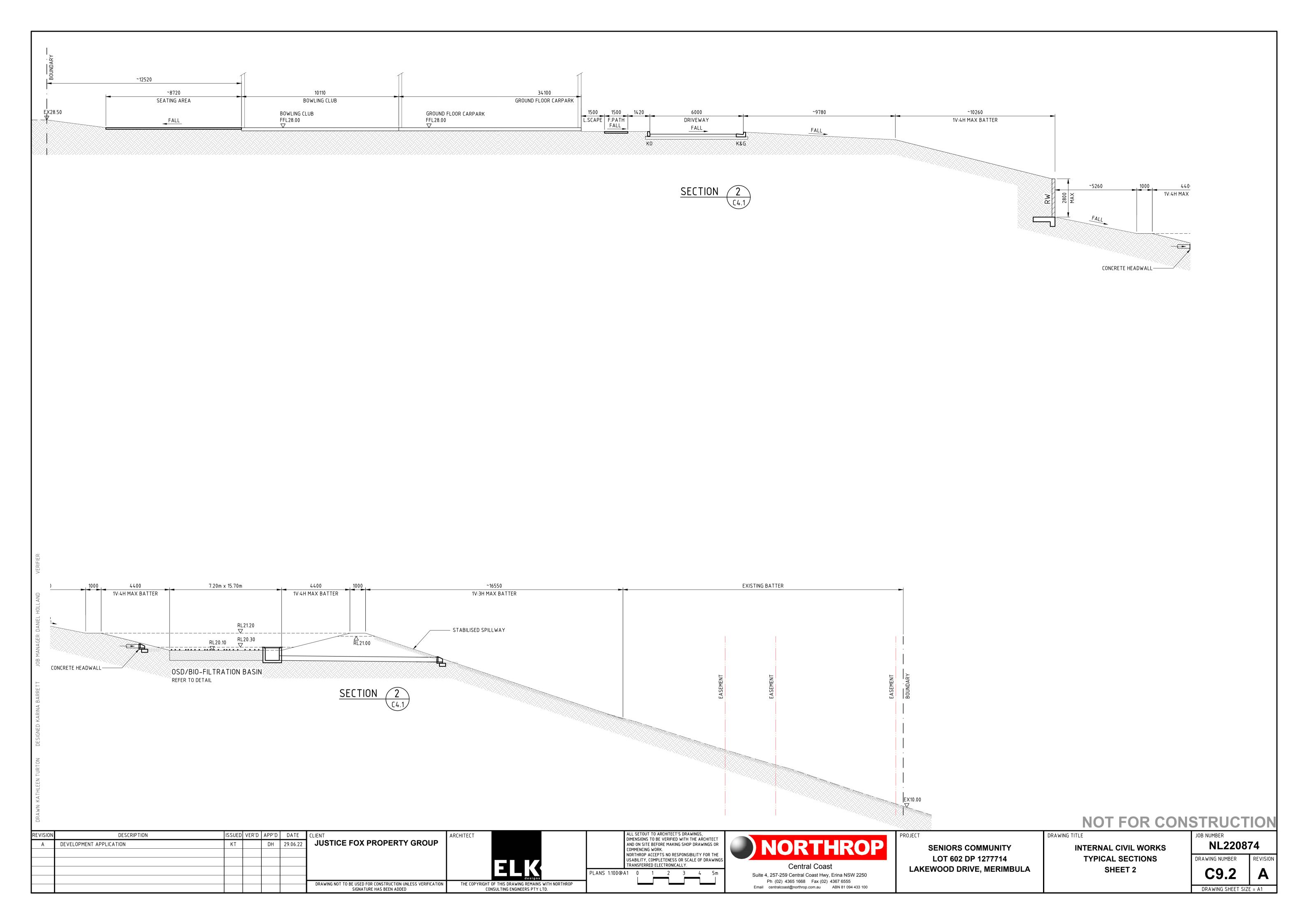
NOT FOR CONSTRUCTION

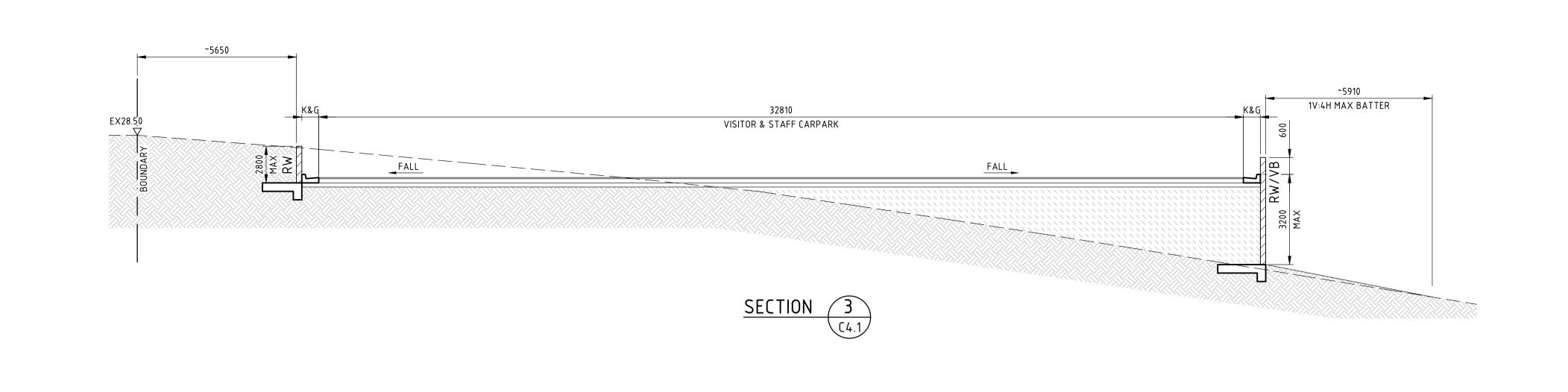
0 0.000 0.000													
27.315	27.572	27.742	27.891	27.821	27.759	27.710	27.640	27.567	27.495	27.422	27.350	27.299	27.180
27.315 27.315 27.645 27.688	28.118	28.104	28.103	27.980	27.950	27.914 27.710 27.922 27.707	27.998	28.367	28.138	27.940	27.510	27.397	26.766
0.000	-0.546	-0.362	-0.212	-0.159	-0.191	-0.204	-0.358	-0.800	-0.643	-0.517	-0.160	-0.098	0.414
-4.483 -0.732 0.000	10.000	20.000	30.000	4 0.000	50.000	00.09	70.000	80.000	90.000	100.000	110.000	117.097	129.413
MC01 LONG SE	ECTION (TOP OF I	PAVEMENT)		·			·	·	·				

5.80 CARPARK ENTRY

VISITOR & STAFF CARPARK ▽







NOT FOR CONSTRUCTION

ALL SETOUT TO ARCHITECT'S DRAWINGS,
DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT
AND ON SITE BEFORE MAKING SHOP DRAWINGS OR
COMMENCING WORK.
NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE
USABILITY, COMPLETENESS OR SCALE OF DRAWINGS
TRANSFERRED ELECTRONICALLY. JUSTICE FOX PROPERTY GROUP DH 29.06.22 DEVELOPMENT APPLICATION Central Coast PLANS 1:100@A1 Ph (02) 4365 1668 Fax (02) 4367 6555
Email centralcoast@northrop.com.au ABN 81 094 433 100 DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION
SIGNATURE HAS BEEN ADDED THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.

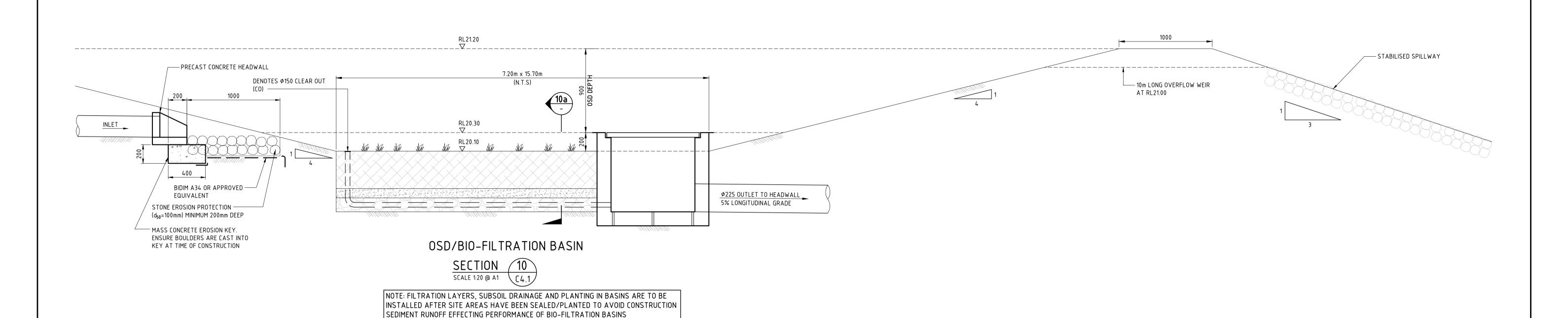
DESCRIPTION

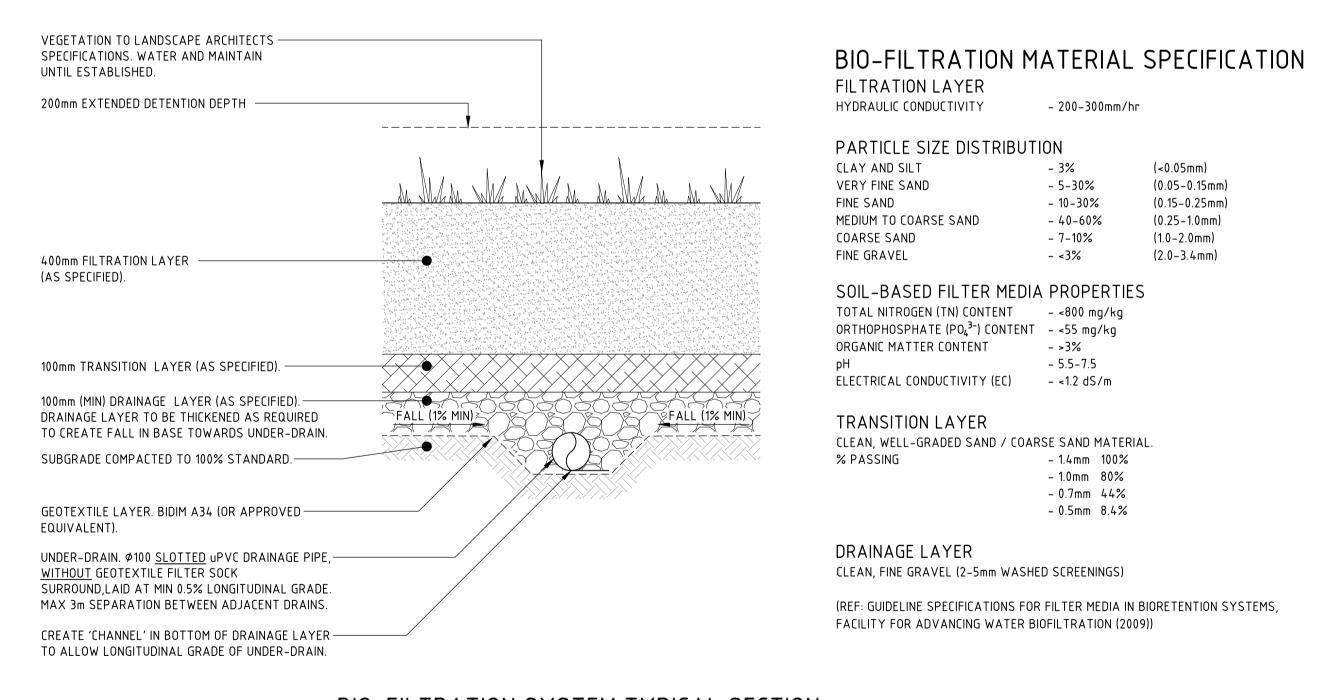
ISSUED VER'D APP'D DATE

Suite 4, 257-259 Central Coast Hwy, Erina NSW 2250

SENIORS COMMUNITY LOT 602 DP 1277714 LAKEWOOD DRIVE, MERIMBULA DRAWING TITLE INTERNAL CIVIL WORKS **TYPICAL SECTIONS** SHEET 3

NL220874 DRAWING NUMBER





BIO-FILTRATION SYSTEM TYPICAL SECTION

SECTION (10a)

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION

DRAWING TITLE

SENIORS COMMUNITY LOT 602 DP 1277714 LAKEWOOD DRIVE, MERIMBULA **INTERNAL CIVIL WORKS CIVIL DETAILS** SHEET 1

NL220874 DRAWING NUMBER

NOT FOR CONSTRUCTION

DRAWING SHEET SIZE = A1

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT
Α	DEVELOPMENT APPLICATION	KT		DH	29.06.22	JUSTICE FOX PROPERTY GROUP
		1				

ARCHITECT CONSULTING ENGINEERS PTY LTD.

COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS
TRANSFERRED ELECTRONICALLY. DETAILS 1:20@A1 0 200 400 600 800 1000 DETAILS 1:10@A1 0 100 200 300 400 500

DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT

AND ON SITE BEFORE MAKING SHOP DRAWINGS OR



Central Coast Suite 4, 257-259 Central Coast Hwy, Erina NSW 2250 Ph (02) 4365 1668 Fax (02) 4367 6555 Email centralcoast@northrop.com.au ABN 81 094 433 100