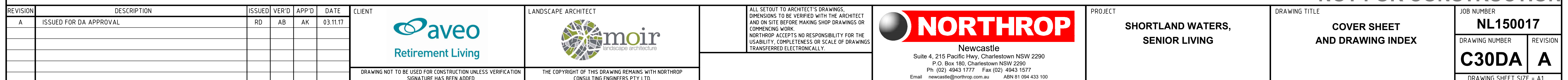
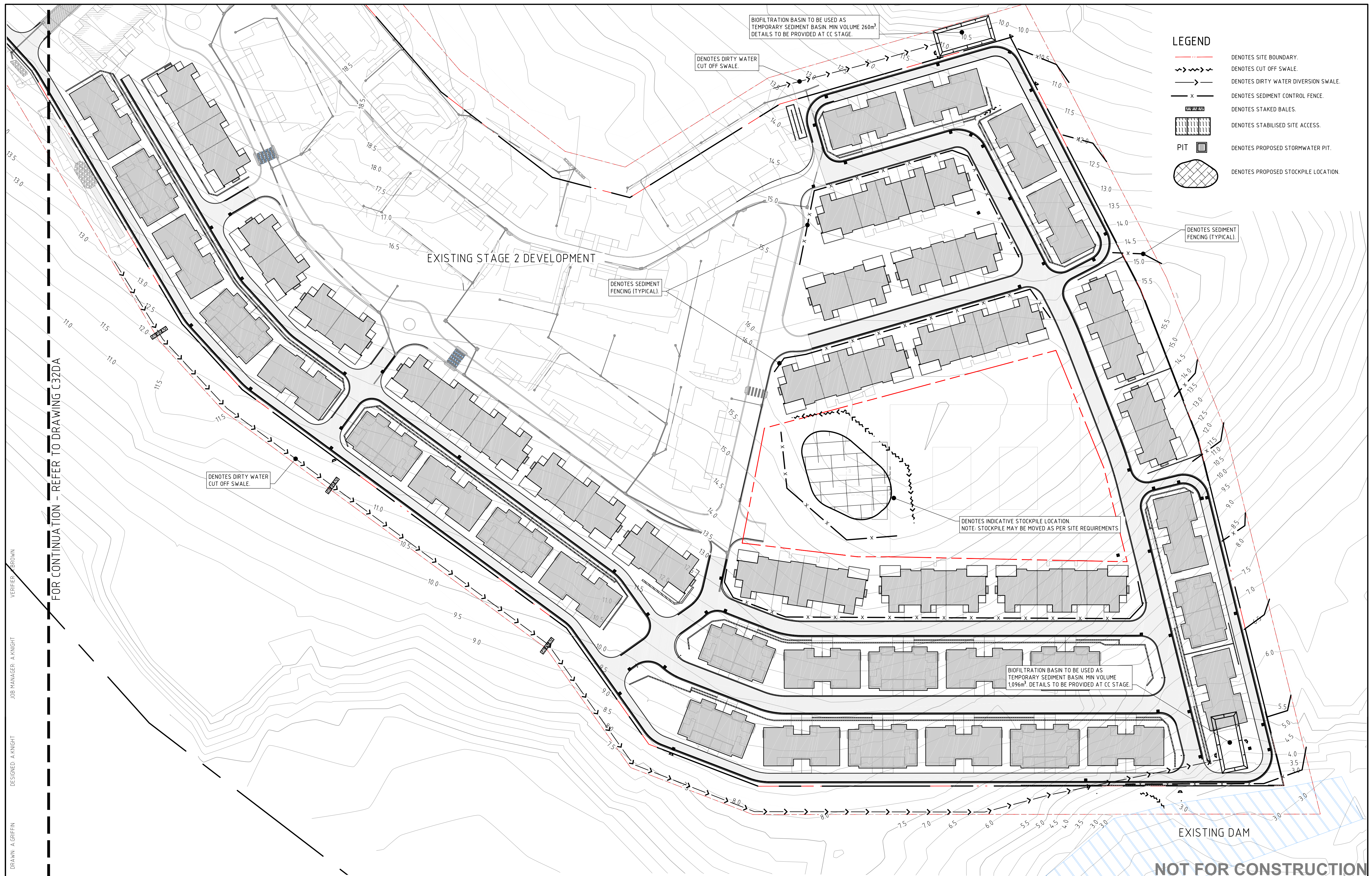


- CIVIL DRAWINGS -





REVISION		DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	LANDSCAPE ARCHITECT	 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. PLANS 1:600	PROJECT	DRAWING TITLE	JOB NUMBER						
A	ISSUED FOR DA APPROVAL		AK	RD	AB	31.10.17			NORTHROP Newcastle Suite 4, 215 Pacific Hwy, Charlestown NSW 2290 P.O. Box 180, Charlestown NSW 2290 Ph (02) 4943 1777 Fax (02) 4943 1577 Email newcastle@northrop.com.au ABN 81 094 433 100	SHORTLAND WATERS, SENIOR LIVING	CONCEPT EROSION AND SEDIMENT CONTROL PLAN - SHEET 1	NL150017						
							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.	<table><tr><td>DRAWING NUMBER</td><td>REVISION</td></tr><tr><td>C31DA</td><td>A</td></tr><tr><td colspan="2">DRAWING SHEET SIZE = A1</td></tr></table>				DRAWING NUMBER	REVISION	C31DA	A	DRAWING SHEET SIZE = A1	
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DRAWING SHEET SIZE = A1																		

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SEDIMENT & EROSION CONTROL NOTES

1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT ORDINANCES AND REGULATIONS; NOTE IN PARTICULAR THE REQUIREMENTS OF LANDCOMS MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION (THE 'BLUE BOOK').
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 THE GEOTEXTILE INLET FILTER DETAIL SD6-12 OF THE 'BLUE BOOK'.
3. ESTABLISH ALL REQUIRED SEDIMENT FENCES IN ACCORDANCE WITH DETAIL SD6-8 OF THE 'BLUE BOOK'.
4. INSTALL SEDIMENT FENCING AROUND INDIVIDUAL BUILDING ZONES/AREAS AS REQUIRED AND AS DIRECTED BY THE SUPERINTENDENT.
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. REFER ARCHITECTS PLANS FOR TREES TO BE KEPT.
7. ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ON-SITE AND SPREAD/STOCKPILED AS DIRECTED BY THE SUPERINTENDENT.
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 ACCORDANCE WITH EPA GUIDELINES.
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 TO THE LOW SIDE).
10. ENSURE STOCKPILES DO NOT EXCEED 2.0m HIGH. PROVIDE WIND AND RAIN EROSION PROTECTION AS REQUIRED IN ACCORDANCE WITH THE 'BLUE BOOK'.
11. PROVIDE WATER TRUCKS OR SPRINKLER DEVICES DURING CONSTRUCTION AS REQUIRED TO SUPPRESS DUST.
12. ONCE CUT/FILL OPERATIONS HAVE BEEN FINALIZED ALL DISTURBED AREAS THAT ARE NOT BEING WORKED ON SHALL BE RE-VEGETATED AS SOON AS IS PRACTICAL.
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 PRINCIPAL CERTIFYING AUTHORITY AND THE SUPERINTENDENT DURING NORMAL WORKING HOURS.
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 DISCHARGE WATER AS NECESSARY.

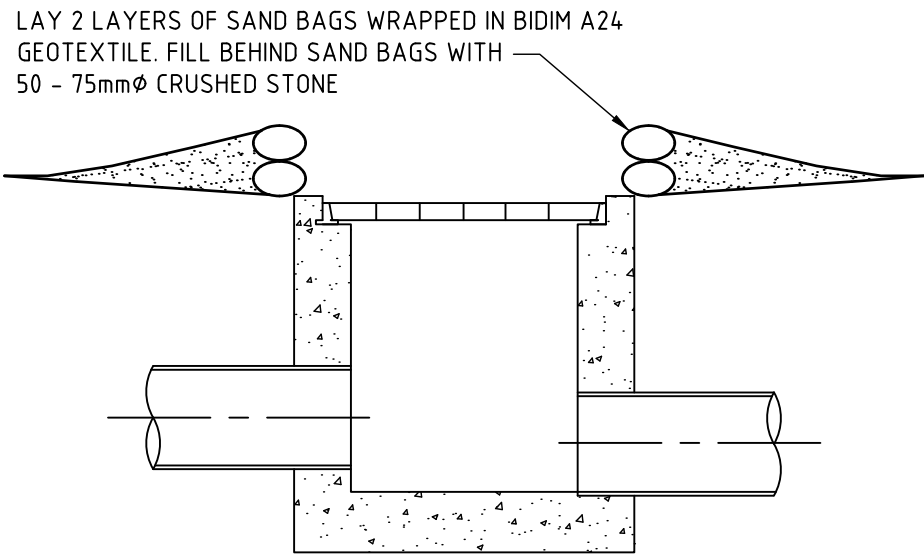
BASIN MANAGEMENT NOTES

1. PRIOR TO ANY FORECAST WEATHER EVENT, LIKELY TO RESULT IN SEDIMENT LADEN RUNOFF ON THE SITE, ANY EXISTING DETENTION BASINS/TRAPS SHALL BE DEWATERED TO PROVIDE SUFFICIENT CAPACITY TO CAPTURE SEDIMENT LADEN WATER FROM THE SITE.
2. ANY SEDIMENT LADEN WATER CAPTURED ON-SITE MUST BE TREATED TO ENSURE IT WILL ACHIEVE COUNCIL'S WATER QUALITY OBJECTIVES PRIOR TO ITS RELEASE FROM SITE. A SAMPLE OF THE RELEASED TREATED WATER MUST BE KEPT ON-SITE IN A CLEAR CONTAINER WITH THE SAMPLE DATE RECORDED.
3. NO ALUMINIUM BASED PRODUCTS MAY BE USED TO TREAT TURBID WATER (FLOCCULATING/COAGULANTS) ON-SITE WITHOUT THE PRIOR WRITTEN PERMISSION FROM AN APPROPRIATE COUNCIL OFFICER. THE APPLICANT MUST HAVE DEMONSTRATED ABILITY TO USE SUCH PRODUCTS CORRECTLY AND WITHOUT ENVIRONMENTAL HARM PRIOR TO ANY APPROVAL.
4. THE CHEMICAL/AGENT (FLOCCULATING/COAGULANTS) USED IN TYPE D AND TYPE F BASINS TO TREAT TURBID WATER CAPTURED IN THE BASIN MUST BE APPLIED IN CONCENTRATIONS SUFFICIENT TO ACHIEVE COUNCIL'S WATER QUALITY OBJECTIVES (TSS < 50mg/L, TURBIDITY < 60 NTU, 6.5 < pH < 8.5) WITHIN THE 5-DAY RAINFALL DEPTH USED TO CALCULATE THE CAPACITY OF THE BASIN, AFTER A RAINFALL EVENT.
5. ALL MANUFACTURERS INSTRUCTIONS MUST BE FOLLOWED FOR THE USE OF ANY CHEMICALS/AGENTS USED ON-SITE, EXCEPT WHERE APPROVED BY THE RESPONSIBLE PERSON OR AN APPROPRIATE COUNCIL OFFICER.
6. SUFFICIENT QUANTITIES OF CHEMICALS/AGENTS TO TREAT TURBID WATER (FLOCCULATING/COAGULANTS) MUST BE PLACED SUCH THAT WATER ENTERING THE BASINS/SEDIMENT TRAP MIXES WITH THE CHEMICALS/AGENTS AND IS CARRIED INTO THE BASIN/TRAP.
7. ANY BASIN MUST BE DEWATERED AS SOON AS PRACTICAL, ONCE WATER CAPTURED IN THE BASIN ACHIEVES COUNCIL'S WATER QUALITY OBJECTIVES.
8. INSPECT THE SEDIMENT BASINS AFTER EACH RAINFALL EVENT AND/OR WEEKLY. ENSURE THAT ALL SEDIMENT IS REMOVED ONCE THE SEDIMENT STORAGE ZONE IS FULL. ENSURE THAT OUTLET AND EMERGENCY SPILLWAY WORKS ARE MAINTAINED IN A FULLY OPERATIONAL CONDITION AT ALL TIMES.

CONSTRUCTION SEQUENCE

- INSTALL STABILISED SITE ACCESS.
- INSTALL CLEAN WATER PUSH BACK BERM.
- INSTALL SAND BAG OR GEOTEXTILE SOCK & SEDIMENT CONTROL FENCES.
- CONSTRUCT DRAINAGE EASEMENT INFRASTRUCTURE AND CONNECT CLEAN WATER RUN-OFF.
- UNDERTAKE ROAD & BUILDING CONSTRUCTION
- REMOVE SEDIMENT CONTROLS ONCE SITE IS STABILISED

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 NORTHPROP CONSULTING ENGINEERS.



PIT PROTECTION DETAIL

(ALTERNATIVE DETAIL SD6-11 OR SD6-12 OF THE BLUE BOOK AS APPROPRIATE)

INSTALL PIT PROTECTION TO ALL NEW & EXISTING STORMWATER PITS.

SEDIMENT BASIN SIZING

- THE SEDIMENT STORAGE VOLUME REQUIRED FOR THE PROPOSED WORKS HAS BEEN DETERMINED USING THE REVISED UNIVERSAL SOIL LOSS EQUATION (RUSLE) METHOD IN ACCORDANCE WITH THE 'BLUE BOOK' GUIDELINES.
- THE SIZE SHAPE AND LOCATION OF THE SEDIMENT BASINS MAY CHANGE DUE TO PROPOSED CONSTRUCTION STAGING IMPLICATIONS AND SITE SPECIFIC GEOTECHNICAL CONDITIONS (DETAILS TO BE PROVIDED AT CC STAGE).

NOT FOR CONSTRUCTION

DRAWN: A. GRIFFIN
DESIGNED: A. KNIGHT
JOB MANAGER: A. KNIGHT
VERIFIER: A. BROWN

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PROJECT

SHORTLAND WATERS, SENIOR LIVING

DRAWING TITLE

CONCEPT EROSION AND SEDIMENT CONTROL PLAN - SHEET 2

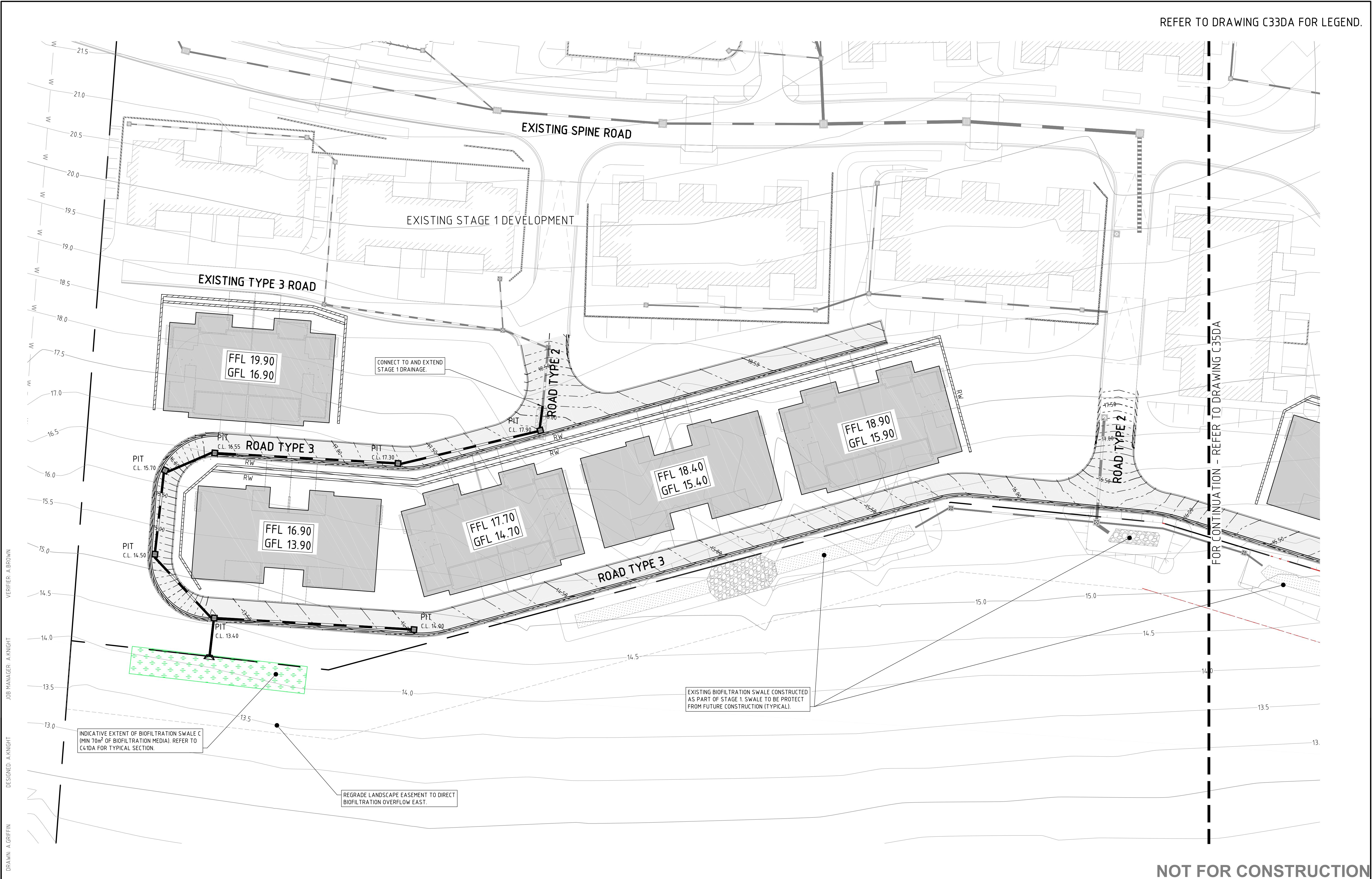
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JOB MANAGER: A. KNIGHT
VERIFIER: A. BROWN

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PROJECT

**SHORTLAND WATERS,
SENIOR LIVING**

DRAWING TITLE

**CONCEPT STORMWATER
MANAGEMENT AND
LEVELS PLAN
- SHEET 1**

JOB NUMBER

NL150017

DRAWING NUMBER

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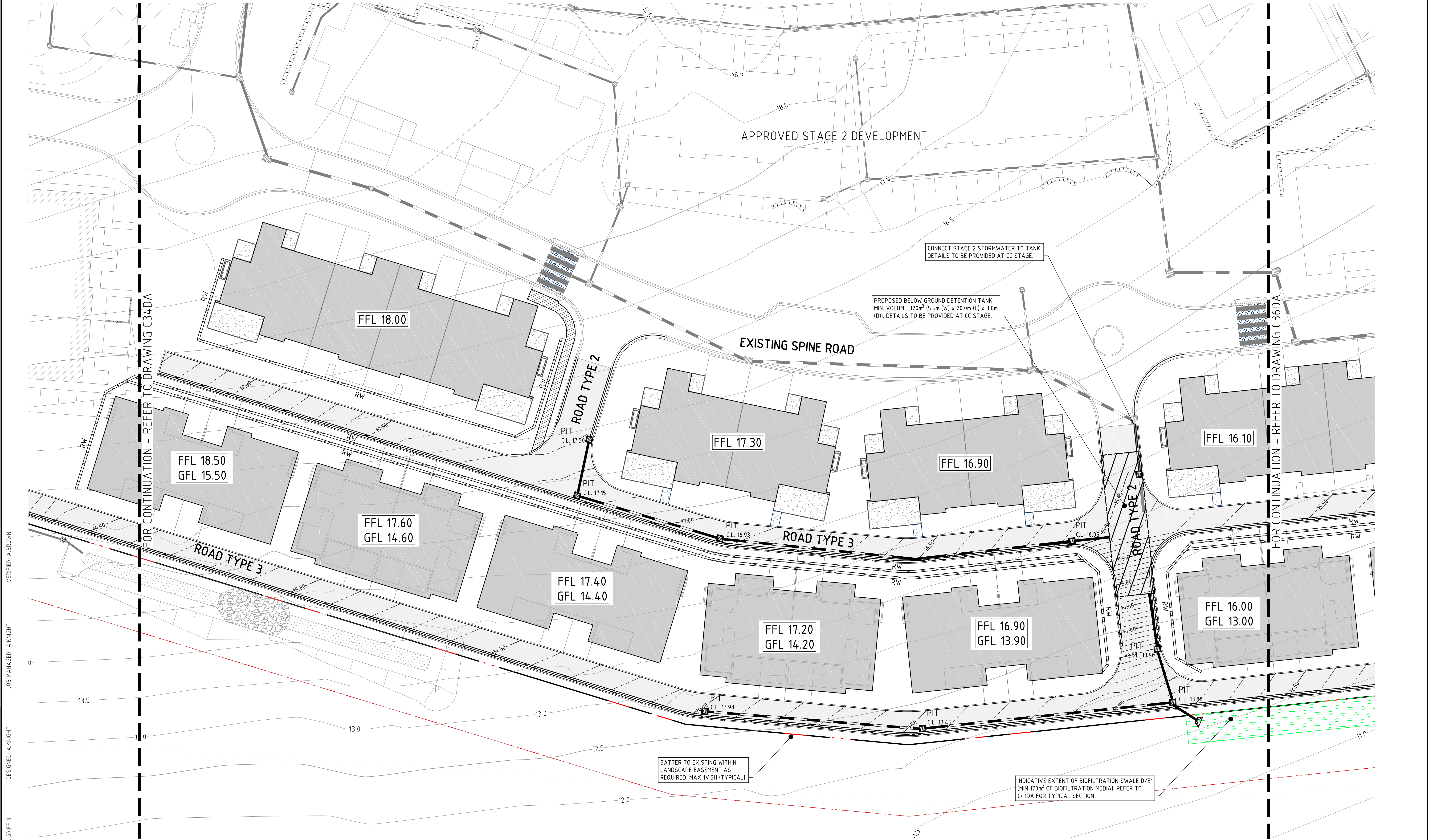
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PROJECT

**SHORTLAND WATERS,
SENIOR LIVING**

DRAWING TITLE

**CONCEPT STORMWATER
MANAGEMENT AND
LEVELS PLAN
- SHEET 2**

JOB NUMBER

NL150017

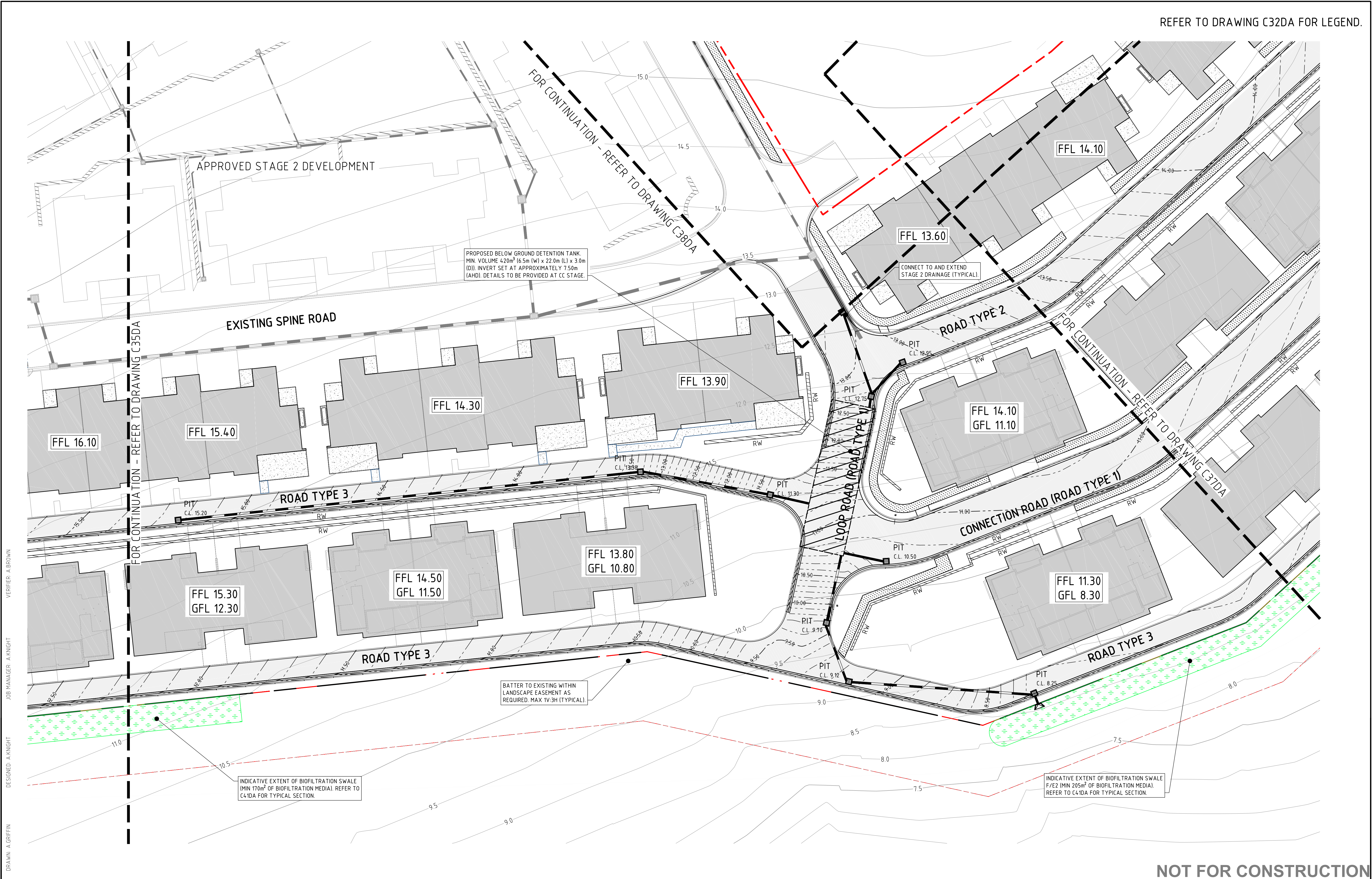
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REVISION

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JOB MANAGER: A. KNIGHT
DESIGNED: A. KNIGHT
DRAWN: A. GRIFFIN

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PROJECT

**SHORTLAND WATERS,
SENIOR LIVING**

DRAWING TITLE

**CONCEPT STORMWATER
MANAGEMENT AND
LEVELS PLAN
- SHEET 3**

JOB NUMBER

NL150017

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PLANS 1:250

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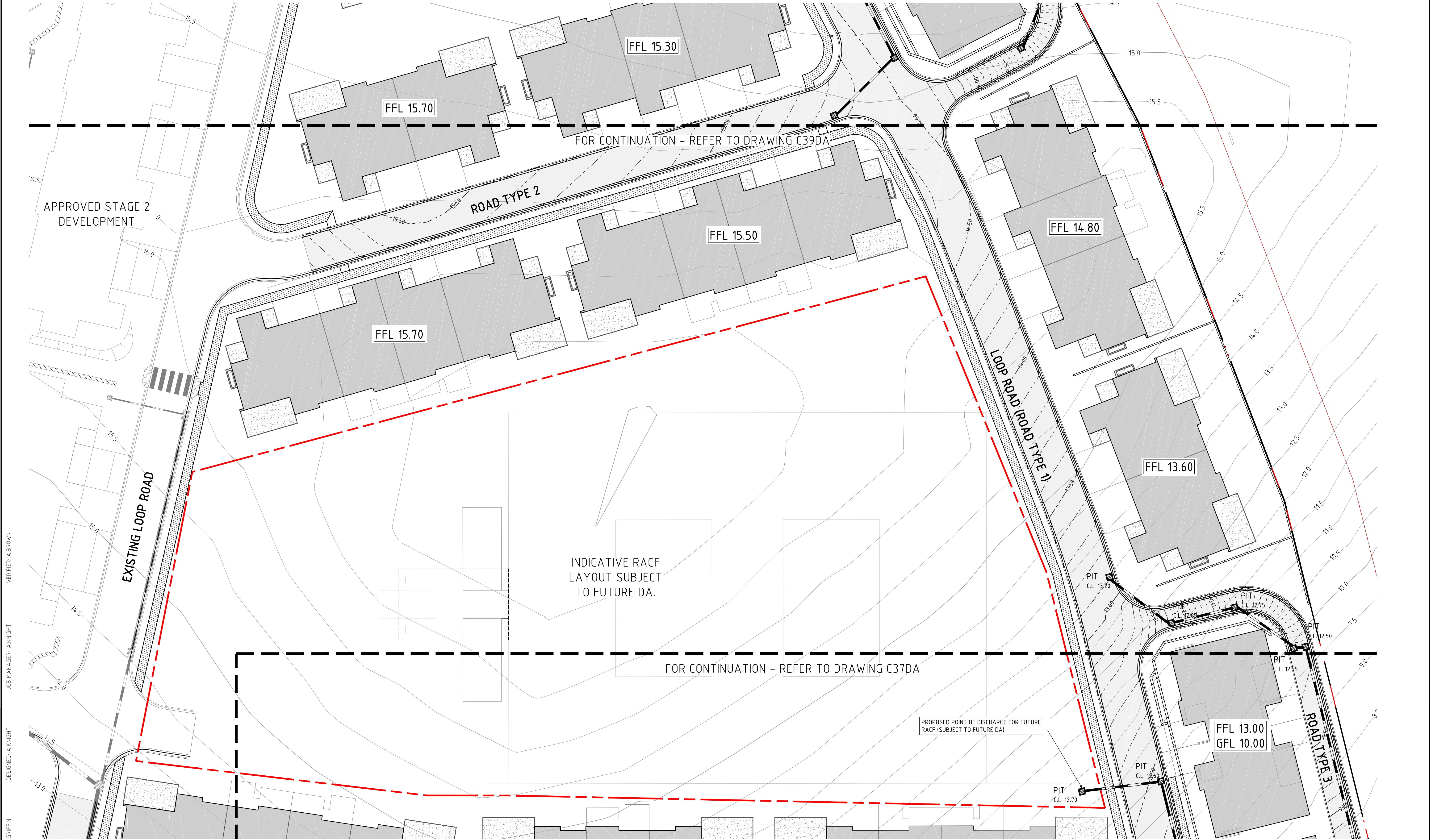
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PROJECT

**SHORTLAND WATERS,
SENIOR LIVING**

DRAWING TITLE

**CONCEPT STORMWATER
MANAGEMENT AND
LEVELS PLAN
- SHEET 5**

JOB NUMBER

NL150017

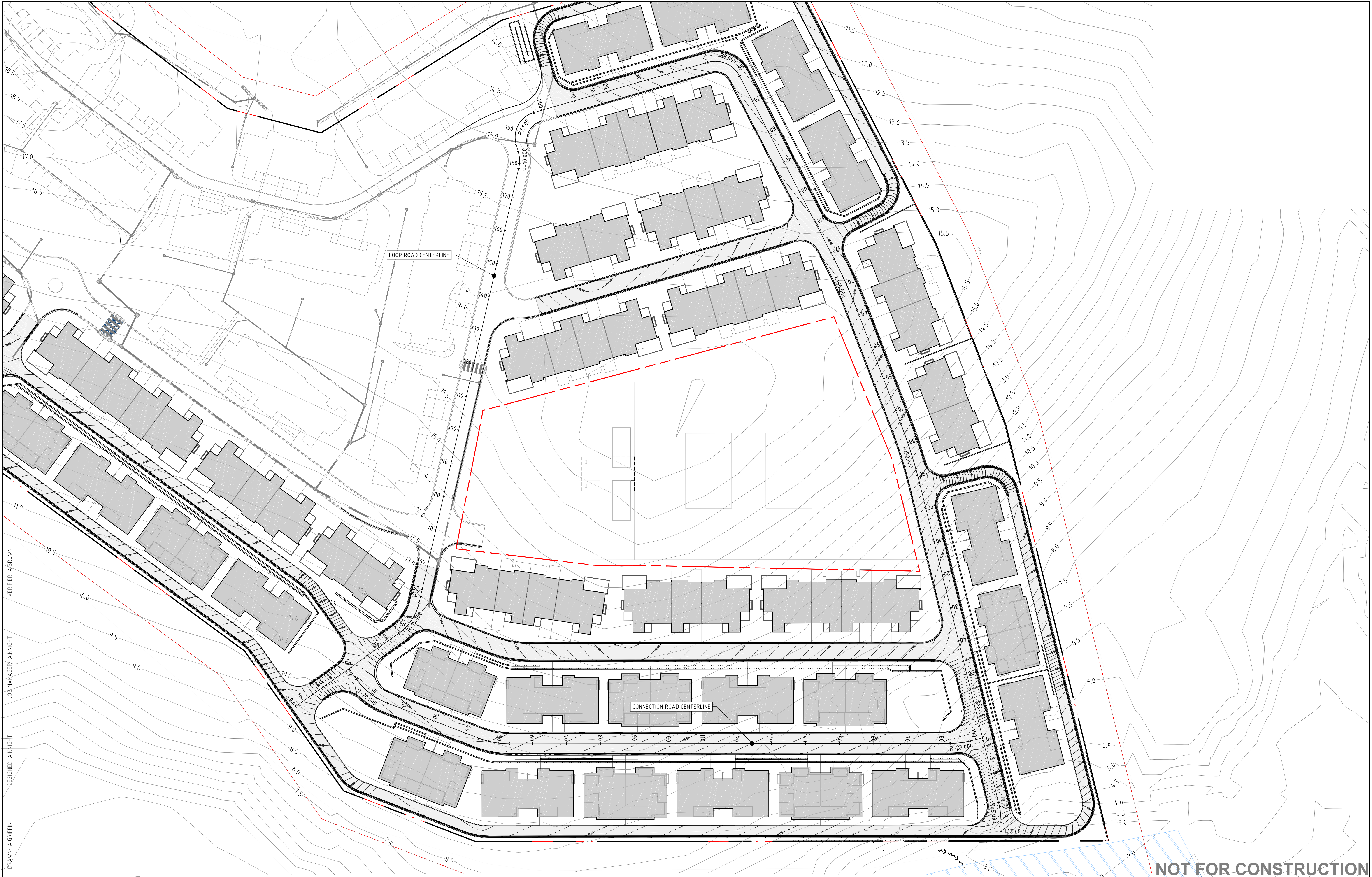
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PROJECT

**SHORTLAND WATERS,
SENIOR LIVING**

DRAWING TITLE

CONCEPT ROAD LAYOUT PLAN

JOB NUMBER

NL150017

DRAWING NUMBER

C40DA

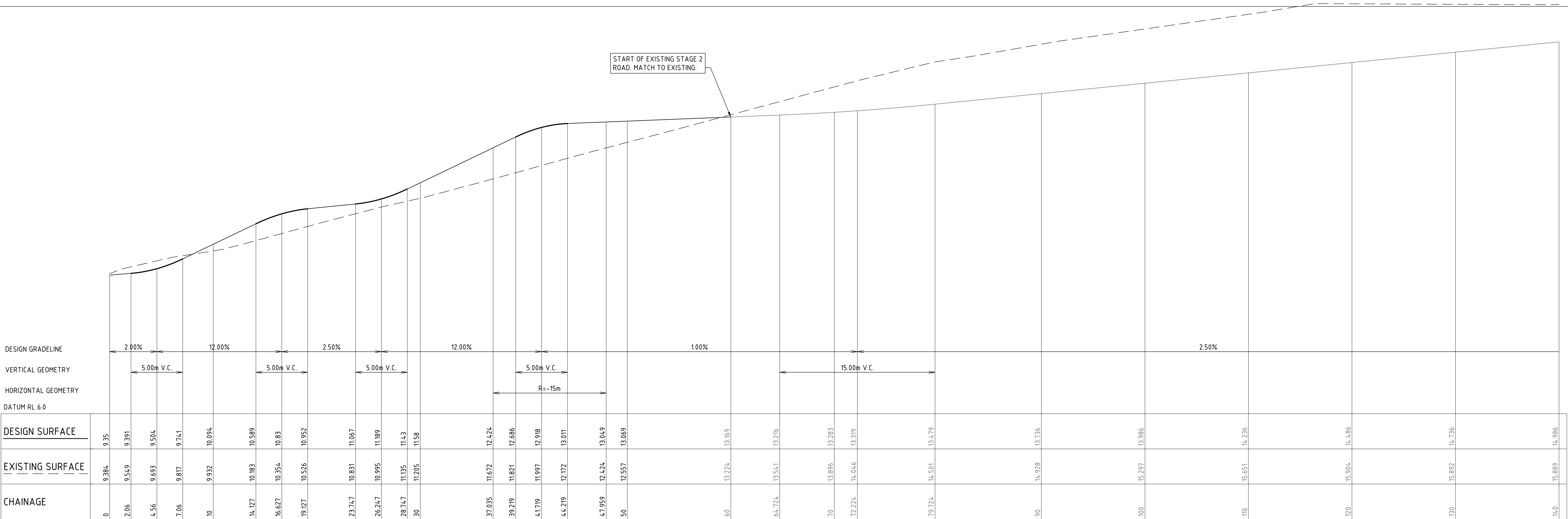
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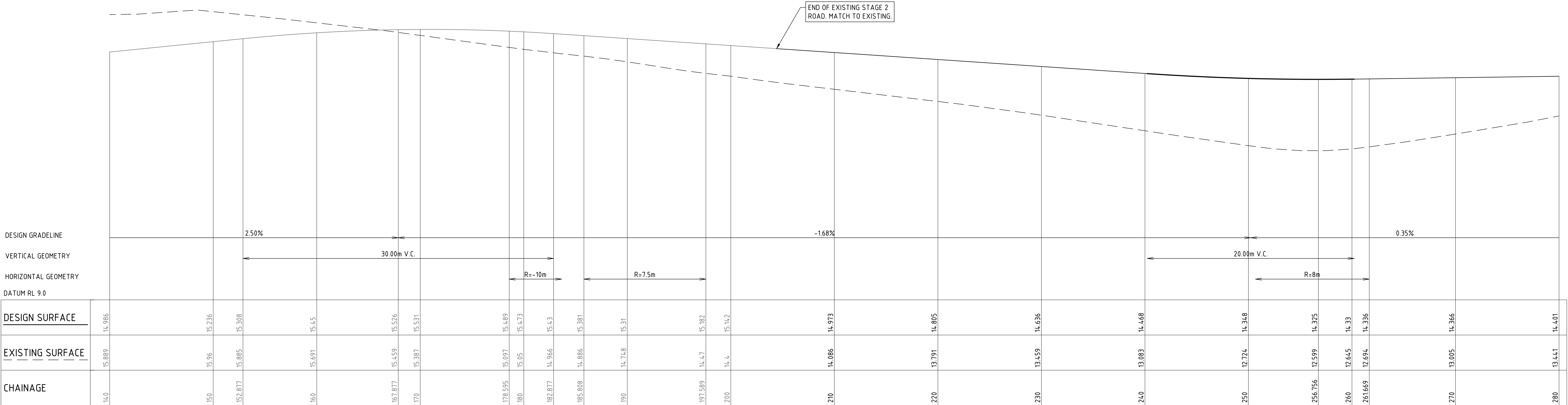
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LOOP ROAD
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



LOOP ROAD
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

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PROJECT

SHORTLAND WATERS,
SENIOR LIVING

DRAWING TITLE

CONCEPT ROAD
LONG SECTIONS
- SHEET 1

JOB NUMBER

NL150017

DRAWING NUMBER

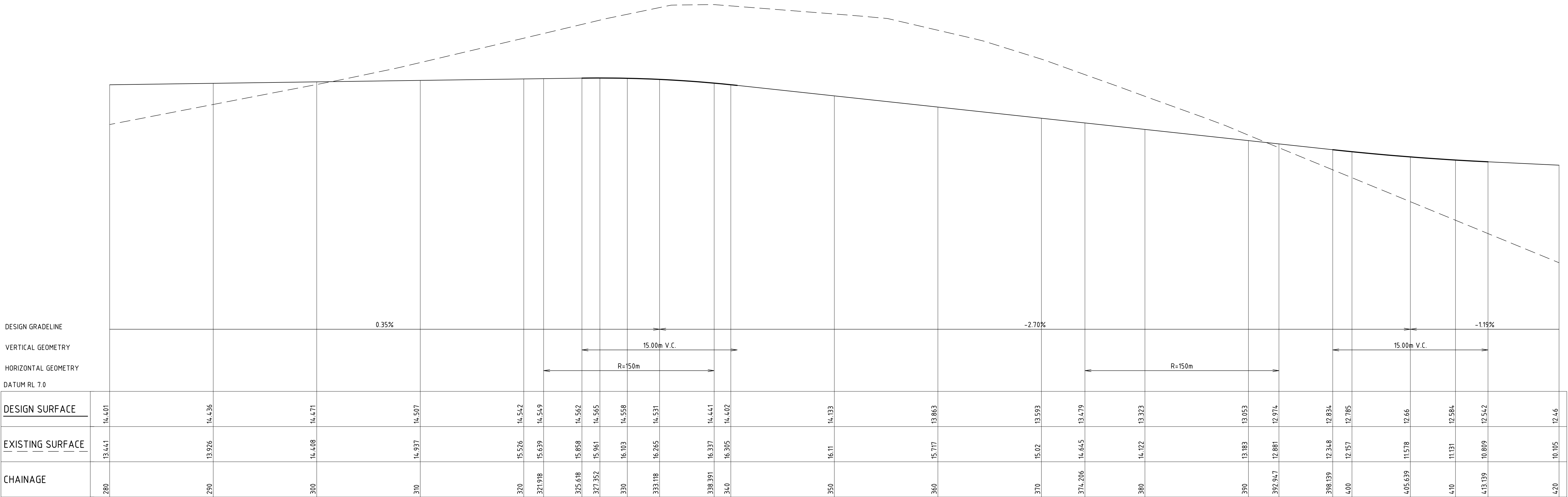
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REVISION

A

DRAWING SHEET SIZE = A1

DESIGNED: A KNIGHT
JOB MANAGER: A KNIGHT
DRAWN: A GRIFFIN
VERIFIER: A BROWN



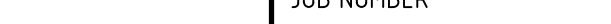
LOOP ROAD
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

NOT FOR CONSTRUCTION

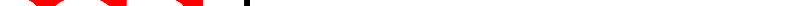
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	LANDSCAPE ARCHITECT	ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.	PROJECT	DRAWING TITLE	JOB NUMBER	
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DRAWING NUMBER	REVISION											
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DRAWN: A.GRIFFIN



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DRAWING SHEET SIZE = A1																	



REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	LANDSCAPE ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER		
A	ISSUED FOR DA APPROVAL	RD	AB	AK	03.11.17	 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.	 Suite 4, 215 Pacific Hwy, Charlestown NSW 2290 P.O. Box 180, Charlestown NSW 2290 Ph (02) 4943 1777 Fax (02) 4943 1577 Email newcastle@northrop.com.au ABN 81 094 433 100	SHORTLAND WATERS, SENIOR LIVING CONCEPT ROAD LONG SECTIONS - SHEET 4	NL150017		
										PLANS 1:200 	DRAWING NUMBER C44DA	REVISION A
										DRAWING SHEET SIZE = A1		

