HOMES NSW SENIOR HOUSING DEVELOPMENT 10-16 BIRDWOOD AVENUE, CABRAMATTA WEST NSW 2166



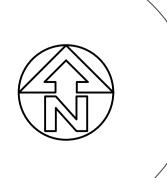
DRAWING SCHEDULE					
Sheet Number	Sheet Title				
C0001	COVER SHEET & DRAWING SCHEDULE				
C0012	LEGEND				
C0101	SOIL & WATER MANAGEMENT PLAN				
C0151	SOIL & WATER MANAGEMENT NOTES & DETAILS - SHEET 1 OF 2				
C0152	SOIL & WATER MANAGEMENT NOTES & DETAILS - SHEET 2 OF 2				
C0301	ENGINEERING PLAN - SHEET 1 OF 2				
C0302	ENGINEERING PLAN - SHEET 2 OF 2				
C0303	PUBLIC WORKS PLAN				
C0621	STORMWATER LONGITUDINAL SECTION				
C0801	TYPICAL DETAILS				
C0802	OSD DETAILS				

LOCALITY PLAN N.T.S.

> THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

NOT FOR CONSTRUCTION

COORDS: MGA2020 ZONE56 DATUM: ALL LEVELS TO A.H.D. SCALE: N.T.S. D ISSUED FOR COUNCIL SUBMISSION SURVEYED:DS & P SURVEY DATE:05.07.2023 MD ISSUED FOR COUNCIL SUBMISSION APPROVED / PROJECT LEADER 14.08.24 TP IR B ISSUED FOR COORDINATION 12.08.24 TP MD A ISSUED FOR COORDINATION SINA ARBABZADEH AMENDMENT / REASON FOR ISSUE DATE DES. DWN.



SHEET SIZE

PUBLIC UTILITIES: THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.





HOMES NSW

10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT COVER SHEET & DRAWING SCHEDULE

FILENAME: 231890_DW_C0001_COV.DWG

PROJECT NUMBER DRAWING NUMBER REVISION 231890 C0001

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

DESCRIPTION	LEGEND PROPOSED	EXISTING	FUTURE
LOT BOUNDARY			
SITE BOUNDARY			
SITE BOUNDARY	375Ø		
STORMWATER PIPELINE	3739		
STORMWATER DRAINAGE PITS			
RAINWATER OUTLET	⊕ RO		
DOWN PIPE	o DP		
INTERMEDIATE RISER	O IR		
FLUSHING POINT	o FP		
DRAINAGE LINE No. 3 DRAINAGE PIT No. 10	03\10		
CONCRETE HEADWALL			
TRENCH DRAIN			
SUBSOIL DRAIN	ssss	ssss	
150mm KERB AND GUTTER	K&G	EXIST. K&G	FUT. K&G =======
ROLL KERB AND GUTTER	RK	EXIST. RK	FUT. RK =======
KERB ONLY	ко	EXIST. KO	FUT. KO
EDGE STRIP	ES	EXIST. ES	FUT. ES
MOUNTABLE KERB	MK	EXIST. MK	FUT. MK
DISH CROSSING	DC	EXIST. DC	FUT. DC ≡≡≡≡≡≡≡
VEHICULAR CROSSING	VC	EXIST. VC	FUT. VC
PEDESTRIAN RAMP	PR	EXIST. PR	FUT. PR
EDGE OF BITUMEN	EOB	EXIST. EOB	FUT. EOB
BATTERS			
CONCRETE PATHWAY	4 4 4 4		
CONTOURS	99.5	99.5	-99.5-
SERVICE LINES SEWER, GAS, WATER,	—S—S—S—S— —G———————————————————————————		
ELECTRICITY OH, ELECTRICITY UG, RECYCLED WATER,	- HVE-OH		fut.E————————————————————————————————————
COMMUNICATION LINES TELSTRA, FIBRE OPTIC, NBN	- T	o ex.T — ex.OF — ex.NBN — ex.NBN	

LEGEND								
	DESCRIPTION	PROPOSED	EXISTING FUTURE					
	LIMIT OF CONSTRUCTION							
	FENCE POST AND RAIL FENCE SECURITY FENCE	-//	-//					
	LOT NUMBERS	2586						
	RETAINING WALL							
	SANDSTONE LOG WALL							
	ROCK WALL	aaaaaaaaaaaaaa						
	EXISTING TREES	EXISTING TREES TO BE PROTECTED	EXISTING TREES TO BE REMOVED					

SHEET SIZE A1 100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING COORDS: MGA2020 ZONE56 DATUM: ALL LEVELS TO A.H.D. SCALE: N.T.S. O4.03.25 BO MD SURVEY DATE:05.07.2023 C ISSUED FOR COUNCIL SUBMISSION 28.02.25 TP MD APPROVED / PROJECT LEADER

14.08.24 TP IR

DATE DES. DWN.

SINA ARBABZADEH B ISSUED FOR COUNCIL SUBMISSION A ISSUED FOR COORDINATION AMENDMENT / REASON FOR ISSUE

PUBLIC UTILITIES: THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.





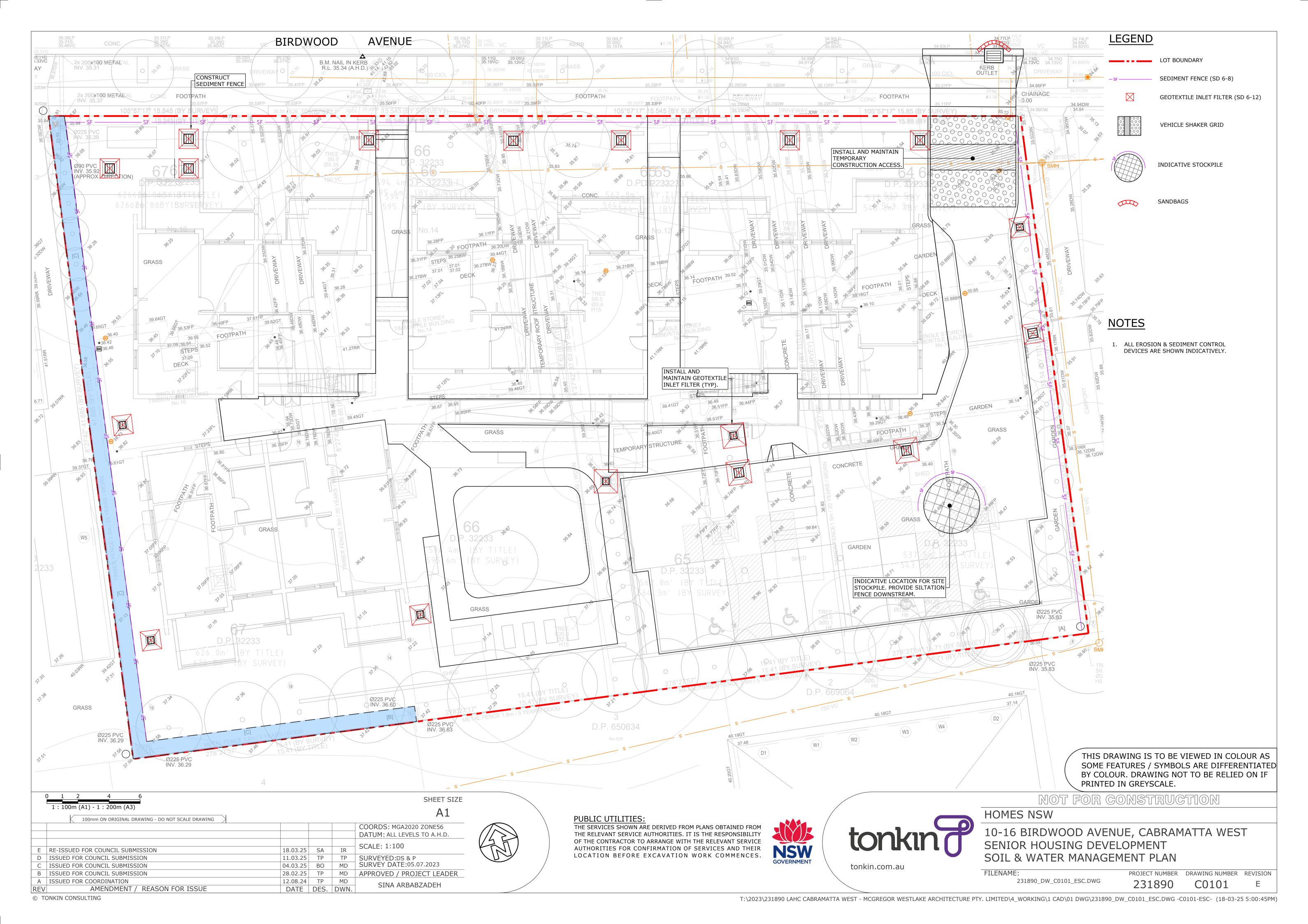
NOT FOR CONSTRUCTION

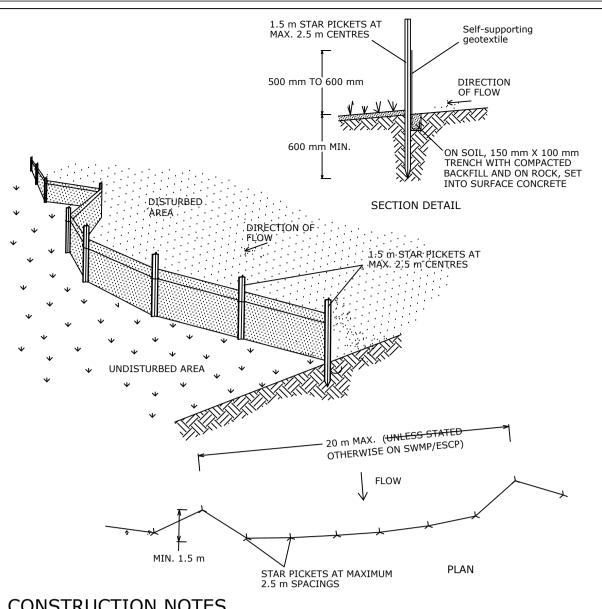
HOMES NSW

10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT **LEGEND**

FILENAME: 231890_DW_C0012_NOT.DWG

PROJECT NUMBER DRAWING NUMBER REVISION 231890 C0012





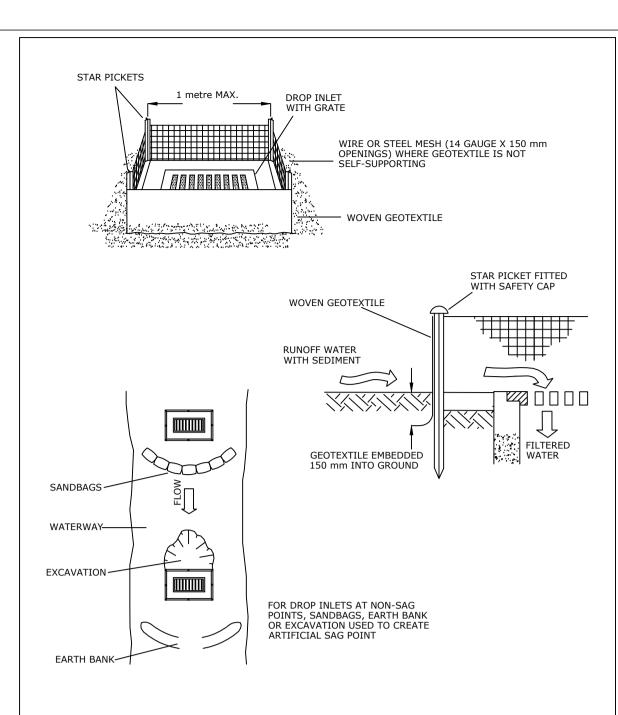
CONSTRUCTION NOTES

- 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 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. 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.

SHEET SIZE

COORDS: MGA2020 ZONE56

SURVEY DATE:05.07.2023

APPROVED / PROJECT LEADER

SINA ARBABZADEH

SCALE: AS SHOWN

SURVEYED:DS & P

MD

04.03.25 BO

28.02.25 TP MD

12.08.24 TP MD

DATE DES. DWN.

DATUM: ALL LEVELS TO A.H.D.

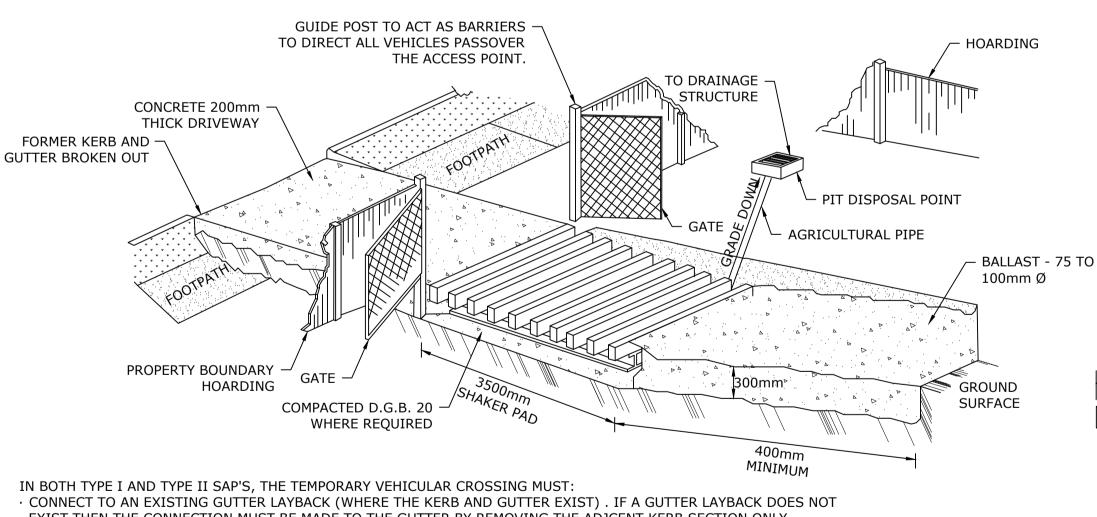
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SD 6-12

STABILISED ACCESS POINT-TYPE 2

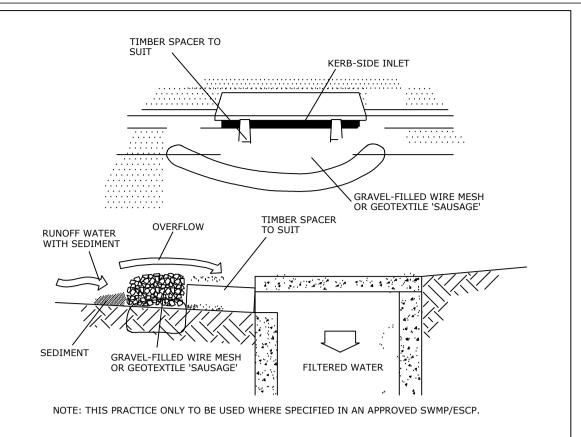
THE TYPE II SAP DESIGN IS MORE DEFINED IN THAT IT REQUIRES AN AREA OF BALLAST WITHIN THE SITE COMBINED WITH A SHAKER PAD; ADJACENT THE SHAKER PAD AND IN THE PUBLIC WAY IS A TEMPORARY (CONCRETE) VEHICULAR CROSSING. (SEE DIAGRAM)



EXIST THEN THE CONNECTION MUST BE MADE TO THE GUTTER BY REMOVING THE ADJCENT KERB SECTION ONLY. CONNECT TO A DISH CROSSING (WHERE KERB AND GUTTER DOES NOT EXIST). IF A DISH CROSSING DOES NOT EXIST, THEN IT MUST BE CONSTRUCTED IN ACCORDANCE WITH DETAILS CONTAINED IN COUNCIL'S ISSUED FOOTPATH CROSSING LEVELS.

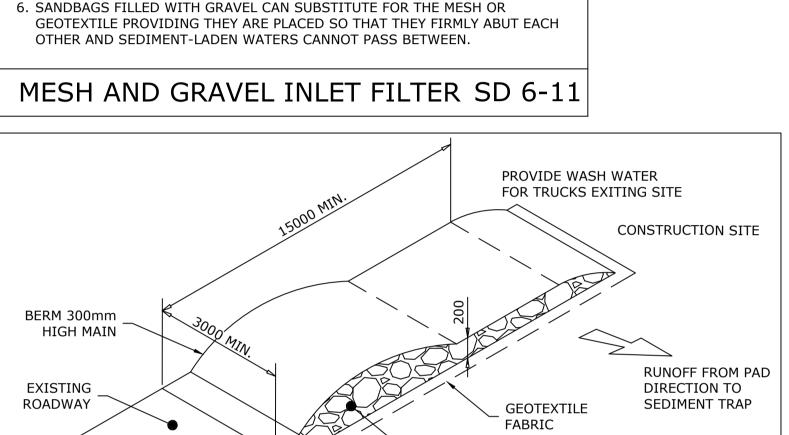
IT SHOULD BE NOTED THAT THESE TYPES OF SAPS ARE CONSIDERED TO BE APPLICABLE FOR THE MAJORITY OF ACTIVITIES HOWEVER SOME SITES MAY REQUIRE SPECIAL CONSIDERATION.

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING



CONSTRUCTION NOTES

- . 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 25 MM TO 50 MM GRAVEL.
- 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150 MM HIGH X 400 MM WIDE. 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100-MM SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER
- 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



50-75mm

GRAVEL

CONSTRUCTION NOTES

- 1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE
- COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- 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.
- WHERE A SEDIMENT FENCE JOINS ONTO THE STABLISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS

SD 6-14

FARTH BANK

CONSTRUCTION NOTES

STOCKPILES

6-8) 1 TO 2 METRES DOWNSLOPE.

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING

. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.

VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.

3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2

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.

. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO

DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING

RUNG-75mm x 100mm **EXISTING SUBGRADE** BEARER - 200mm US

SHAKER PAD (CATTLE GRID)

A CORRECTLY DESIGNED AND INSTALLED SHAKER PAD WILL ASSIST IN PREVENTING SEDIMENT TRANSFER FROM SITE. ANY STABILISED ACCESS POINT (SAP) CAN BE DESIGNED WITH A SHAKER PAD (COMPULSORY IN TYPE II SAP'S)

SHAKER PADS CAN BE DESIGNED AND CONSTRUCTED TO ENABLE RE-USE ON FUTURE

THE SHAKER PAD:

· MUST BE DESIGNED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER. THE CERTIFIED DESIGN SHOULD BE SUBMITTED WITH THE RELEVENT APPLICATION.

· CAN BE CONSTRUCTED FROM ANY SUITABLE MATERIAL.

MUST BE LOCATED ON A SUITABLY PREPARED AND COMPACTED SUB-GRADE/BASE

MUST BE SITUATED SUCH THAT THE RUNGS OF THE SHAKER PAD ARE LEVEL WITH THE ADJOINING NATURAL SURFACE.

MUST BE A MINIMUM OF 3.5m IN LENGTH.

MUST BE A MINIMUN OF 3.5m IN WIDTH. MUST HAVE CLEAR SPACING BETWEEN RUNGS OF 200 - 250mm.

RUNGS MUST HAVE A MAXIMUM WIDTH (BEARING AREA) OF 75mm.

MUST HAVE A MINIMUM CLEAR DEPTH OF 300mm IE FORM THE ROP OF THE RUNG TO THE FINISHED SUB-GRADE/BASE LEVEL.

THE SHAKER PAD MUST BE PROVIDED WITH SUITABLE BARRIERS AT THE SIDES TO ENSURE THAT ALL TYRES OF VEHICLES LEAVING THE SITE TRAVERSE THE DEVICE.

THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

NOT FOR CONSTRUCTION

PUBLIC UTILITIES:

THE SERVICES SHOWN ON PLANS ARE INDICATIVE ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO ACCURATELY LOCATE THE SERVICES WITHIN THE EXTENT OF WORK SHOWN ON THESE DRAWINGS PRIOR TO THEIR COMMENCEMENT OF WORK.





HOMES NSW

10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT SOIL & WATER MANAGEMENT NOTES & DETAILS SHEET 1 OF 2

FILENAME:

231890_DW_C0151_ESD.DWG

PROJECT NUMBER DRAWING NUMBER REVISION 231890 C0151

ISSUED FOR COUNCIL SUBMISSION

B ISSUED FOR COUNCIL SUBMISSION

A ISSUED FOR COORDINATION

ALONG THE CONTOUR INCORPORATE RETURN PANELS AT REGULAR INTERVALS NOT EXCEEDING 20M.

2. WHERE SEDIMENT CONTROL FENCES ARE NOT CONSTRUCTED

SEDIMENT FENCE CONSTRUCTION NOTES:

CONTOUR WHERE POSSIBLE.

1. CONSTRUCT ALL SEDIMENT CONTROL FENCES ALONG THE

ALL STAR PICKETS SHALL INCORPORATE APPROVED SAFETY CAPS. 4. DIG A 150MM DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED. BACKFILL TRENCH OVER BASE FABRIC. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BE GEOTEXTILE MANUFACTURER. JOIN SECTIONS

OF FABRIC AT A SUPPORT POST WITH A 150MM OVERLAP. WHERE APPROVED BY THE SUPERINTENDENT DUMP ROCK MAY BE USED TO ANCHOR THE GEOTEXTILE IN LIEU OF A TRENCH.

NOTES

STOCKPILE SURFACE

SEDIMENT FENCE

SD 4-1

1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE

1.1. LOCAL AUTHORITY REQUIREMENTS, EPA - POLLUTION CONTROL MANUAL FOR URBAN

STORMWATER, AND LANDCOM NSW - MANAGING URBAN STORMWATER: SOILS

AND CONSTRUCTION (THE "BLUE BOOK"). 2. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE EXTENT OF WORKS.

MODIFIED AND VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY RELEVANT AUTHORITIES. 3. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE

STAGING THESE WORKS MAY REQUIRE THE DESIGN TO BE

MAINTAINED TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY. 4. ALL VEHICLES SHALL ONLY ENTER AND EXIT THE SITE VIA THE

NOMINATED TEMPORARY CONSTRUCTION ACCESS. 5. ALL EXITING VEHICLES SHALL BE CLEANED AND INSPECTED BEFORE EXITING.

6. ATTEMPT TO BE MADE TO MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME

7. FOLLOWING CONSTRUCTION OF STORMWATER PITS, PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE **ERECTED AROUND PITS.**

8. ALL STOCKPILES OF MATERIALS TO BE PROTECTED FROM SCOUR AND EROSION. STOCKPILES OF LOOSE MATERIALS SHOULD BE AVOIDED NEAR ANY DRAINAGE PITS, ROADWAYS AND NEAR IN

WATERCOURSES. 9. CONTRACTOR TO ENSURE ALL NOMINATED DEVICES TO BE REINSTALLED FOLLOWING CLOSURE OF WORKING DAY, MODIFIED AS REQUIRED TO SUIT THE BEST SITE CONDITIONS

10. WATER FROM UPSTREAM OF THE SITE TO BE CONTROLLED SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.

11. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT.

12. STORMWATER SYSTEM AND ALL DEVICES TO BE INSPECTED AND CLEANED OUT AS REQUIRED AFTER EACH STORM EVENT.

13. WATER QUALITY TESTING MUST BE UNDERTAKEN BY SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT PRIOR TO ANY DISCHARGE OF SITE STORMWATER, GROUNDWATER AND

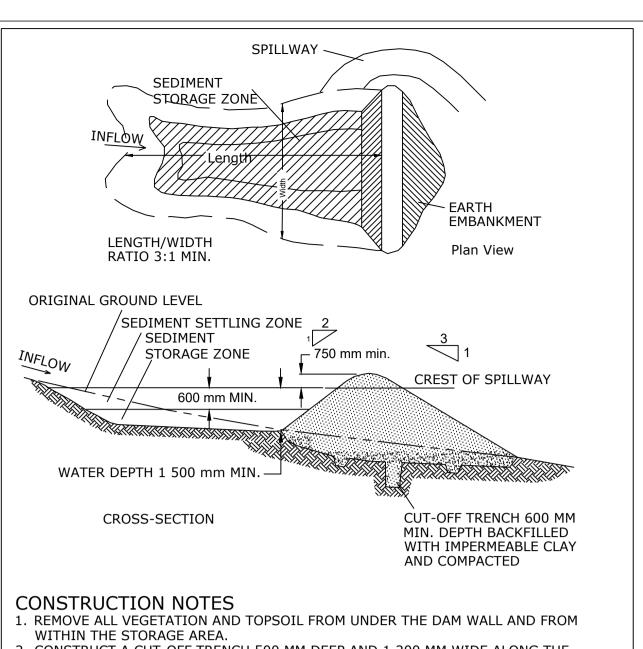
SEEPAGE WATER: 13.1. ENVIRONMENTAL CONSULTANT TO OUTLINE PROPOSED AND ONGOING MONITORING MEASURES THAT WILL BE MONITORING THE QUALITY OF WATER DISCHARGED FROM THE SITE. FREQUENCY, VALIDATION, AND ALL

CONTINGENCIES TO BE OUTLINED BY CONSULTANT ALL REMEDIAL MEASURES AS NOMINATED BY ENVIRONMENTAL CONSULTANT TO BE APPLIED BY

CONTRACTOR.

13.3. TESTING AND REPORTING TO BE IN COMPLIANCE WITH ALL RELATIVE AUSTRALIAN STANDARDS AND GUIDELINES.

tonkin.com.au

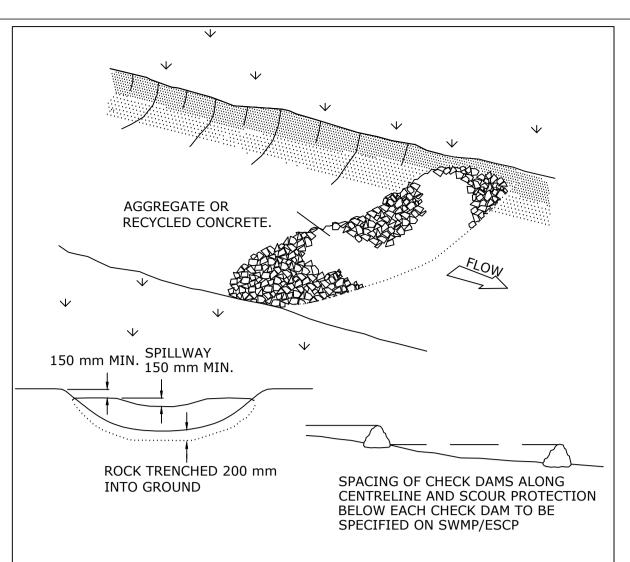


- 2. CONSTRUCT A CUT-OFF TRENCH 500 MM DEEP AND 1,200 MM WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
- 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH
- EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD 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

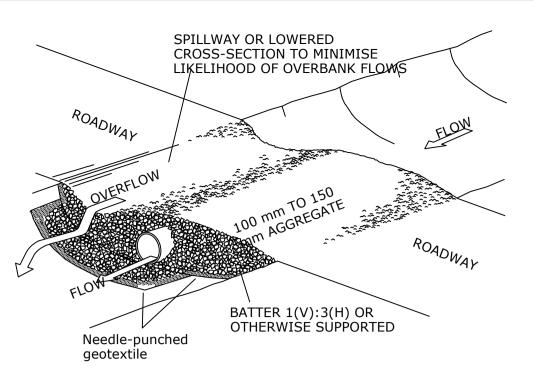


CONSTRUCTION NOTES

- 1. 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.
- 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.
- 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



CONSTRUCTION NOTES

- 1. PROHIBIT ALL TRAFFIC UNTIL THE ACCESS WAY IS CONSTRUCTED.
- 2. STRIP ANY TOPSOIL AND PLACE A NEEDLE-PUNCHED TEXTILE OVER THE BASE OF THE CROSSING.
- 3. PLACE CLEAN, RIGID, NON POLLUTING AGGREGATE OR GRAVEL IN THE 100 MM TO 150 MM SIZE CLASS OVER THE FABRIC TO A MINIMUM DEPTH OF 200 MM.
- 4. PROVIDE A 3-METRE WIDE CARRIAGEWAY WITH SUFFICIENT LENGTH OF
- CULVERT PIPE TO ALLOW LESS THAN A 3(H): 1 (V) SLOPE ON SIDE BATTERS. 5. INSTALL A LOWER SECTION TO ACT AS AN EMERGENCY SPILLWAY IN GREATER THAN DESIGN STORM EVENTS.
- 6. ENSURE THAT CULVERT OUTLETS EXTEND BEYOND THE TOE OF FILL EMBANKMENTS.

TEMPORARY WATERWAY CROSSING SD 5-1

THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

NOT FOR CONSTRUCTION

PUBLIC UTILITIES:

THE SERVICES SHOWN ON PLANS ARE INDICATIVE ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO ACCURATELY LOCATE THE SERVICES WITHIN THE EXTENT OF WORK SHOWN ON THESE DRAWINGS PRIOR TO THEIR COMMENCEMENT OF WORK.





HOMES NSW

10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT SOIL & WATER MANAGEMENT NOTES & DETAILS SHEET 2 OF 2

FILENAME: 231890_DW_C0152_ESD.DWG

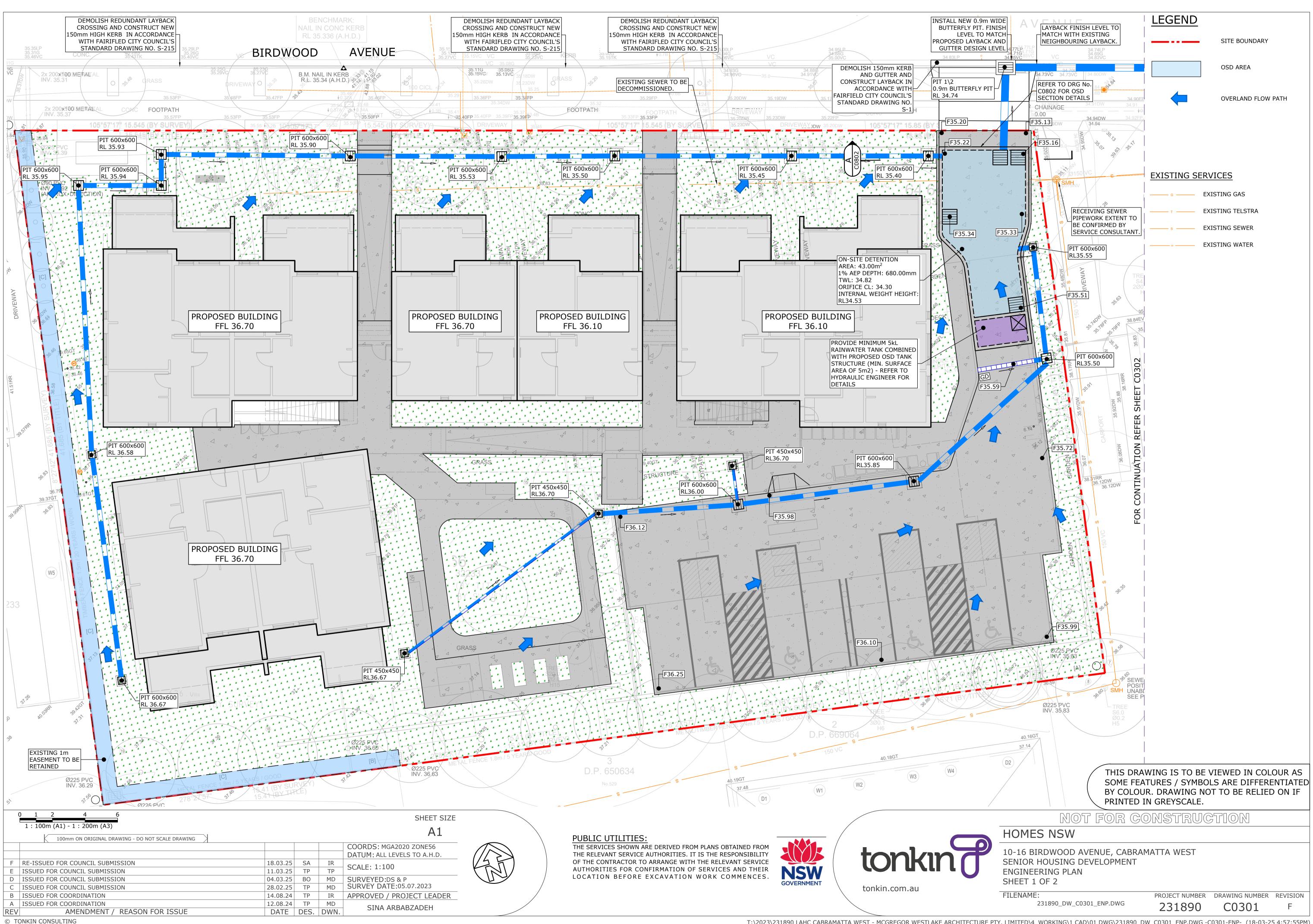
231890

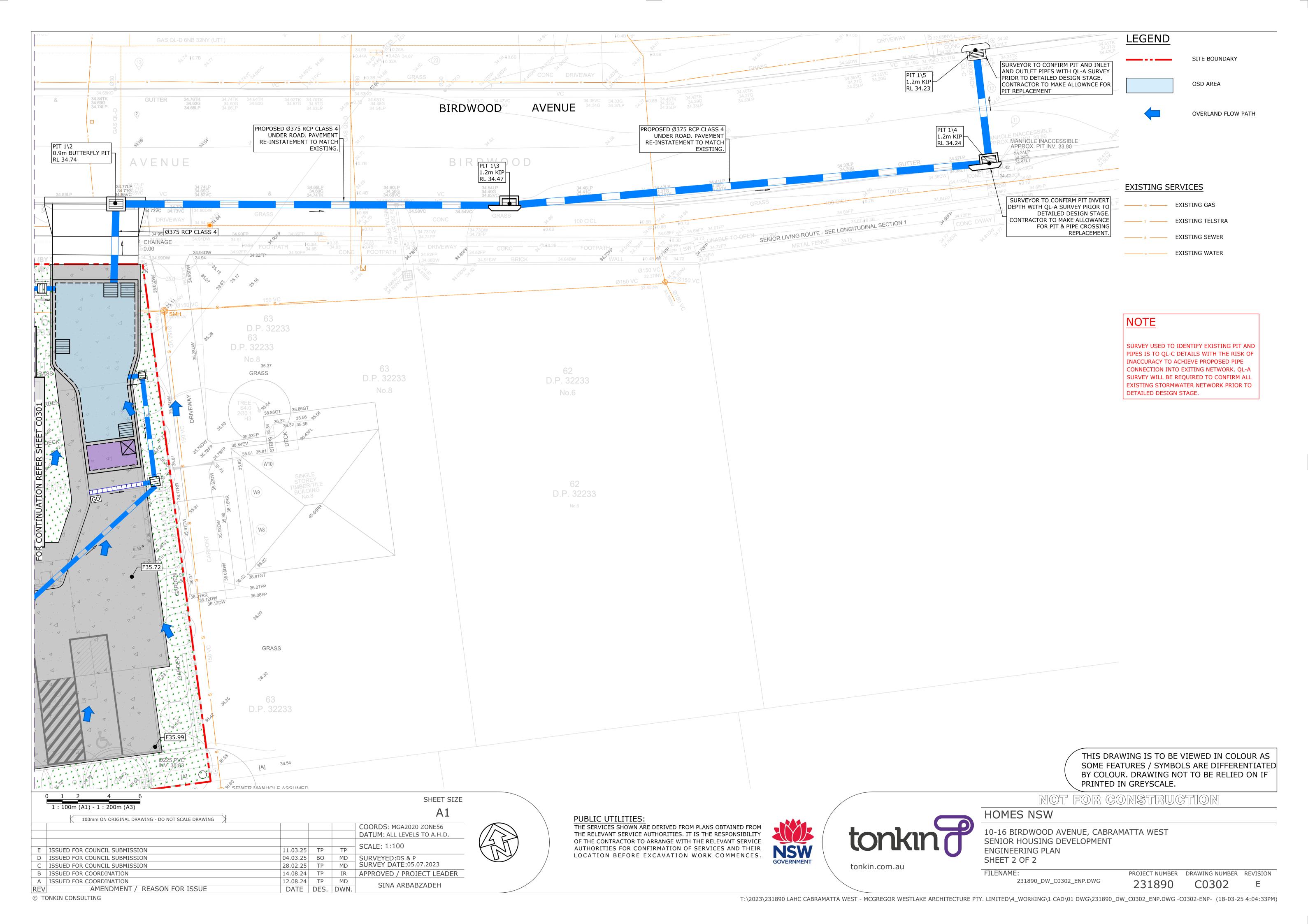
PROJECT NUMBER DRAWING NUMBER REVISION C0152

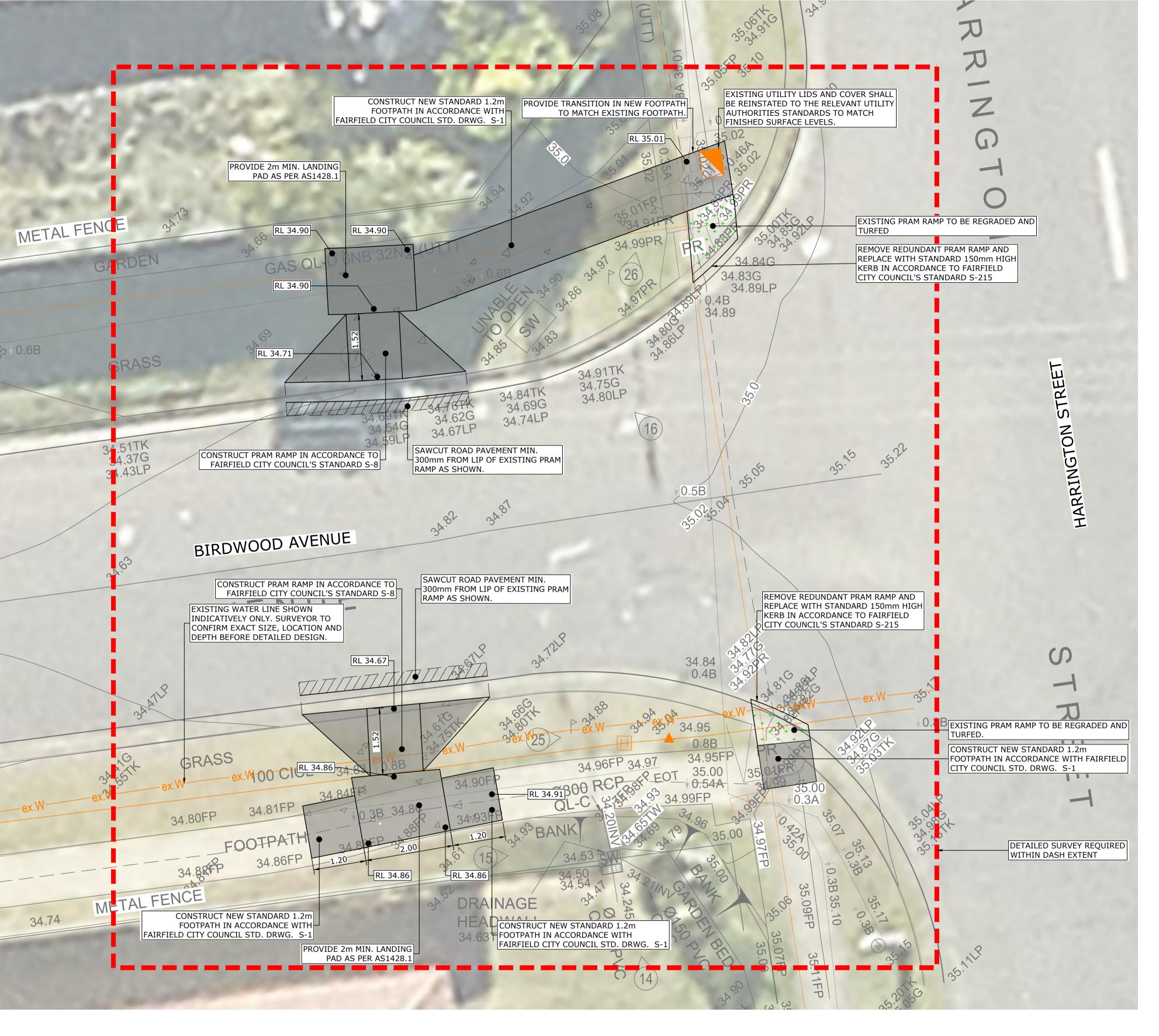
SHEET SIZE

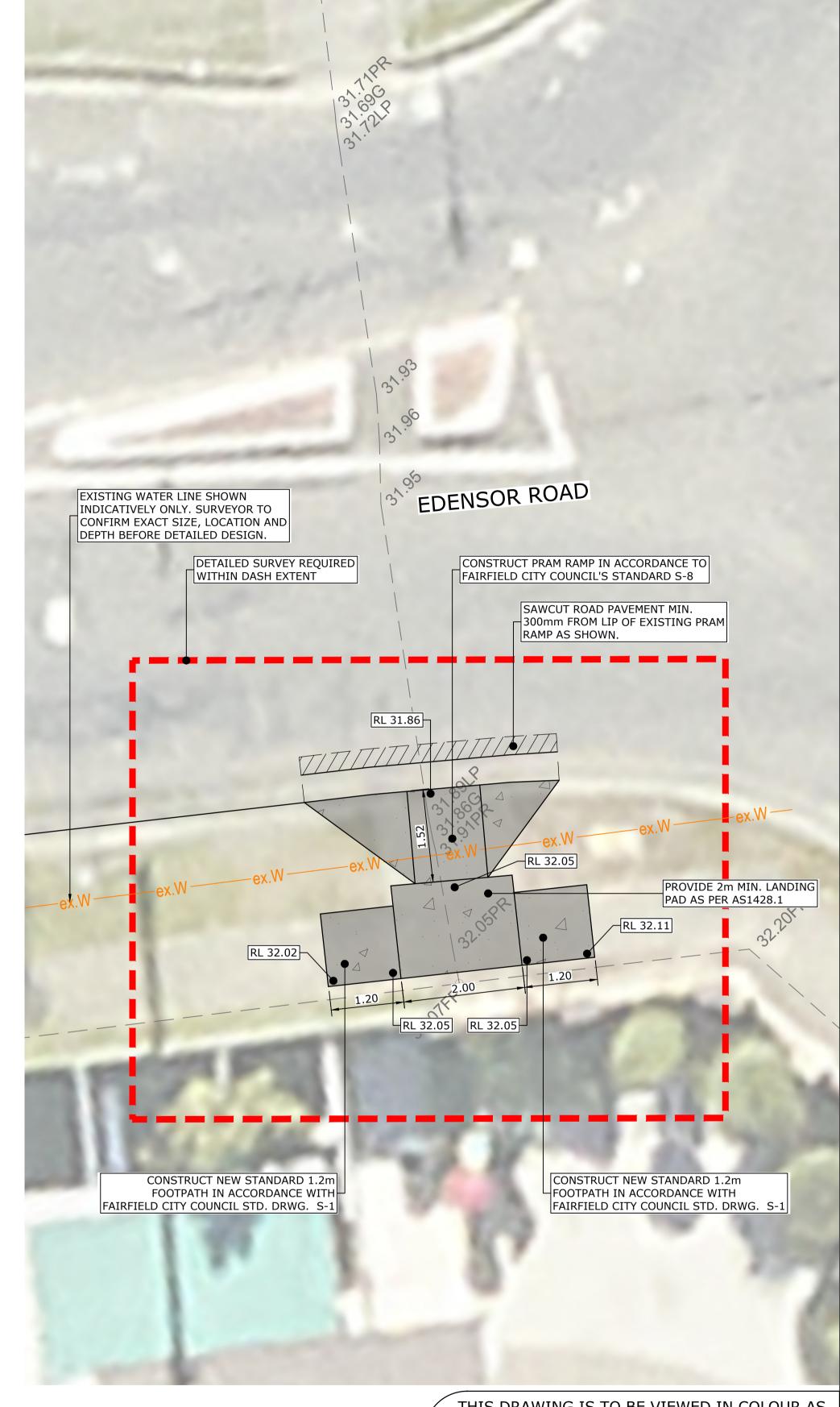
100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING COORDS: MGA2020 ZONE56 DATUM: ALL LEVELS TO A.H.D. SCALE: AS SHOWN SURVEYED:DS & P 04.03.25 BO MD SURVEY DATE:05.07.2023 ISSUED FOR COUNCIL SUBMISSION 28.02.25 TP MD APPROVED / PROJECT LEADER B ISSUED FOR COUNCIL SUBMISSION 12.08.24 TP MD A ISSUED FOR COORDINATION SINA ARBABZADEH DATE DES. DWN. AMENDMENT / REASON FOR ISSUE

© TONKIN CONSULTING









THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

NOT FOR CONSTRUCTION

HOMES NSW

10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT PUBLIC WORKS PLAN

FILENAME: 231890_DW_C0303_ENP.DWG PROJECT NUMBER DRAWING NUMBER REVISION 231890 C0303

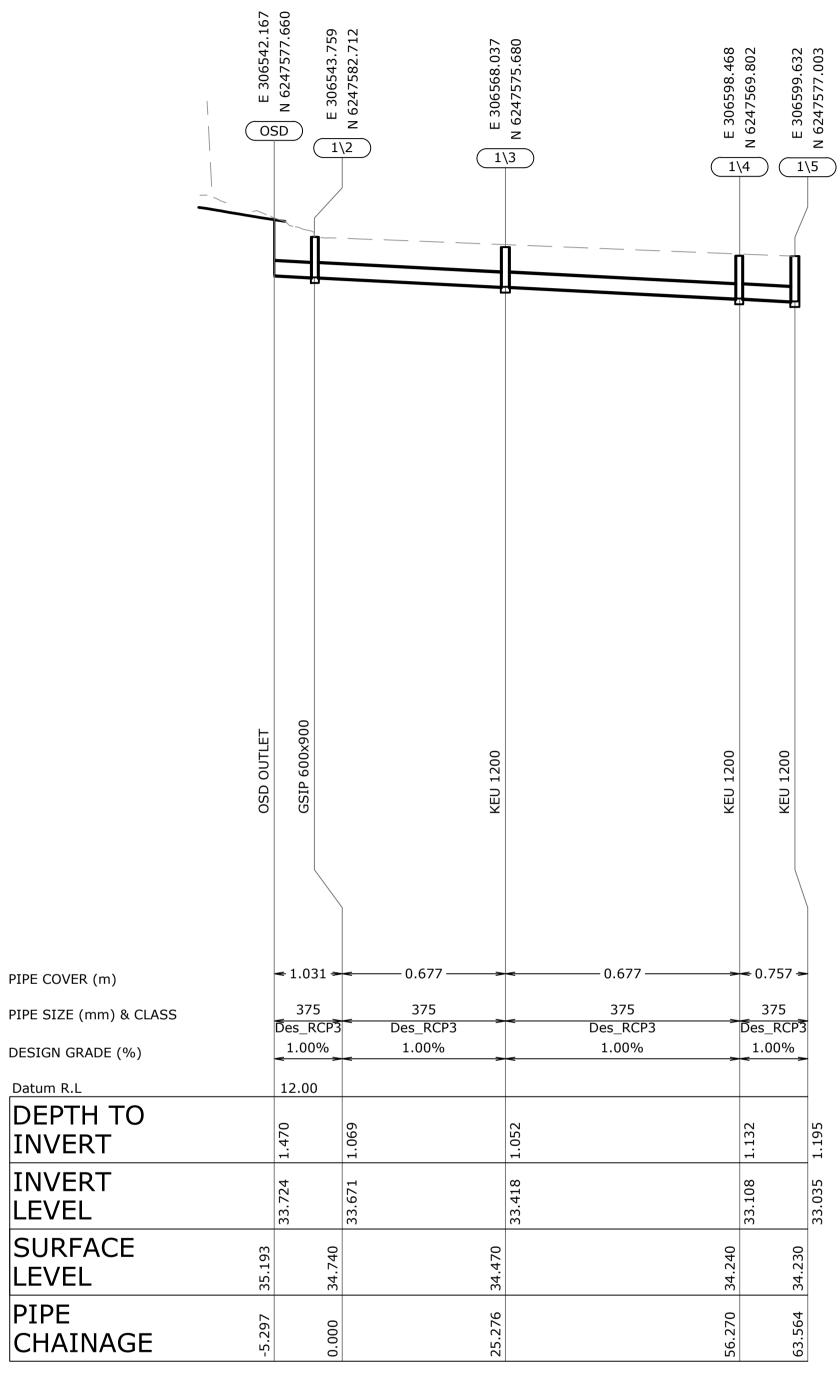
SHEET SIZE **A1** 100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING COORDS: MGA2020 ZONE56 DATUM: ALL LEVELS TO A.H.D. SCALE: 1:50 SURVEYED:DS & P SURVEY DATE:05.07.2023 MD ISSUED FOR COUNCIL SUBMISSION 04.03.25 BO 28.02.25 TP MD APPROVED / PROJECT LEADER B ISSUED FOR COUNCIL SUBMISSION 14.08.24 TP IR A ISSUED FOR COORDINATION SINA ARBABZADEH AMENDMENT / REASON FOR ISSUE DATE DES. DWN.

PUBLIC UTILITIES:

THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.

NSW GOVERNMENT

tonkin.com.au



LINE 1

SHEET SIZE A1 100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING COORDS: MGA2020 ZONE56 DATUM: ALL LEVELS TO A.H.D. SCALE: 1:500 HORIZ. 1:100 VERT. SURVEYED:DS & P 04.03.25 BO MD SURVEY DATE:05.07.2023 ISSUED FOR COUNCIL SUBMISSION B ISSUED FOR COUNCIL SUBMISSION 28.02.25 TP MD APPROVED / PROJECT LEADER 12.08.24 TP MD DATE DES. DWN. A ISSUED FOR COORDINATION SINA ARBABZADEH AMENDMENT / REASON FOR ISSUE

PUBLIC UTILITIES:

THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.





THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

NOT FOR CONSTRUCTION

HOMES NSW

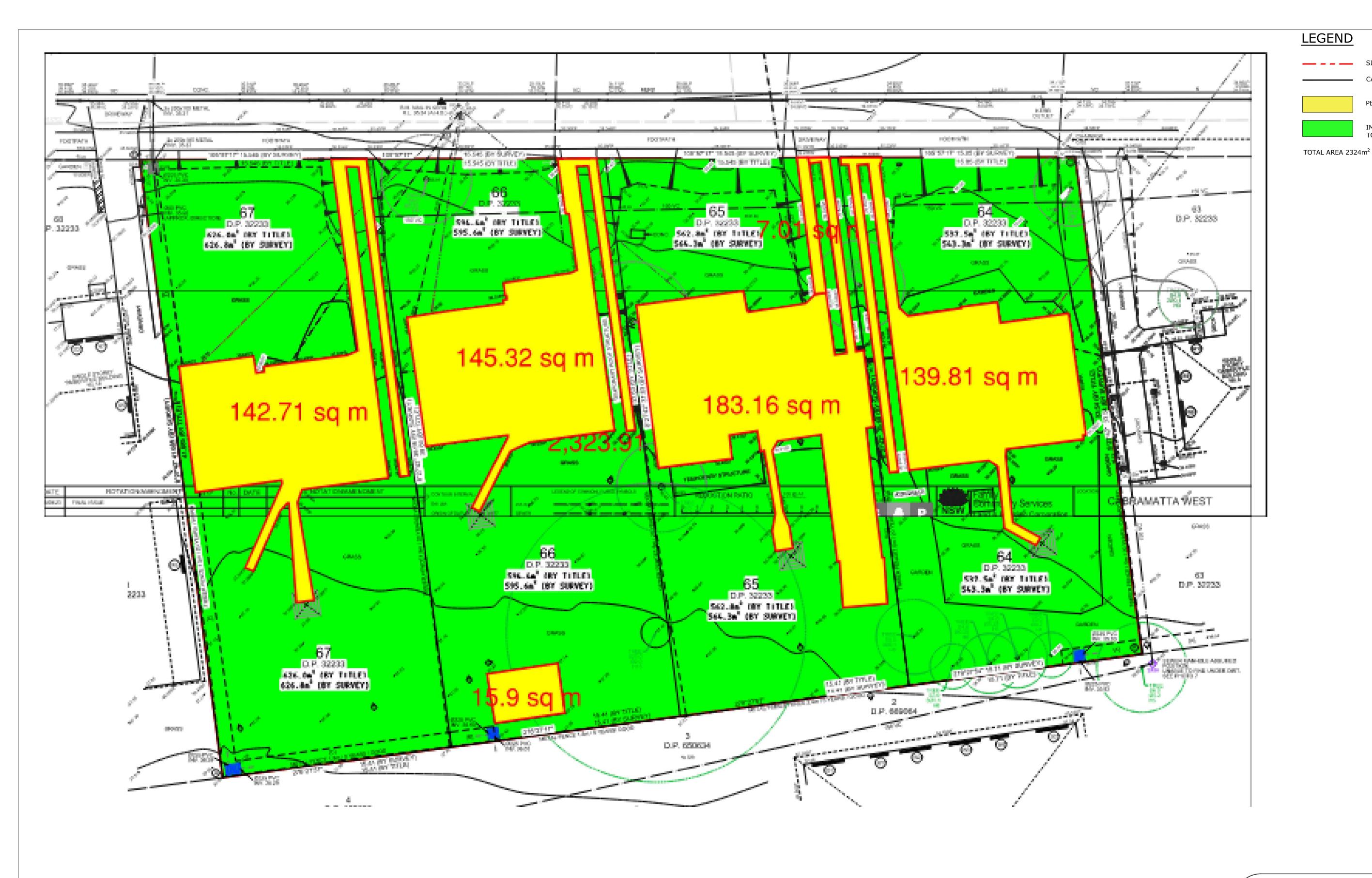
10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT STORMWATER LONGITUDINAL SECTION

FILENAME: 231890_DW_C0621_SWL.DWG

231890

PROJECT NUMBER DRAWING NUMBER REVISION C0621

© TONKIN CONSULTING



THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

SITE BOUNDARY

CATCHMENT BOUNDARY

PERVIOUS AREA - 1706m²

IMPERVIOUS CATCHMENTS TO OSD - 1618m²

NOT FOR CONSTRUCTION

HOMES NSW

tonkin.com.au

10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT OSD PRE-DEVELOPMENT CATCHMENT PLAN

FILENAME: PROJECT NUMBER DRAWING NUMBER REVISION 231890_DW_C0661_SWC.DWG 231890 C0661 A

SHEET SIZE

A1

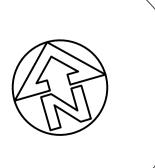
100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

COORDS: MGA2020 ZONE56
DATUM: ALL LEVELS TO A.H.D.

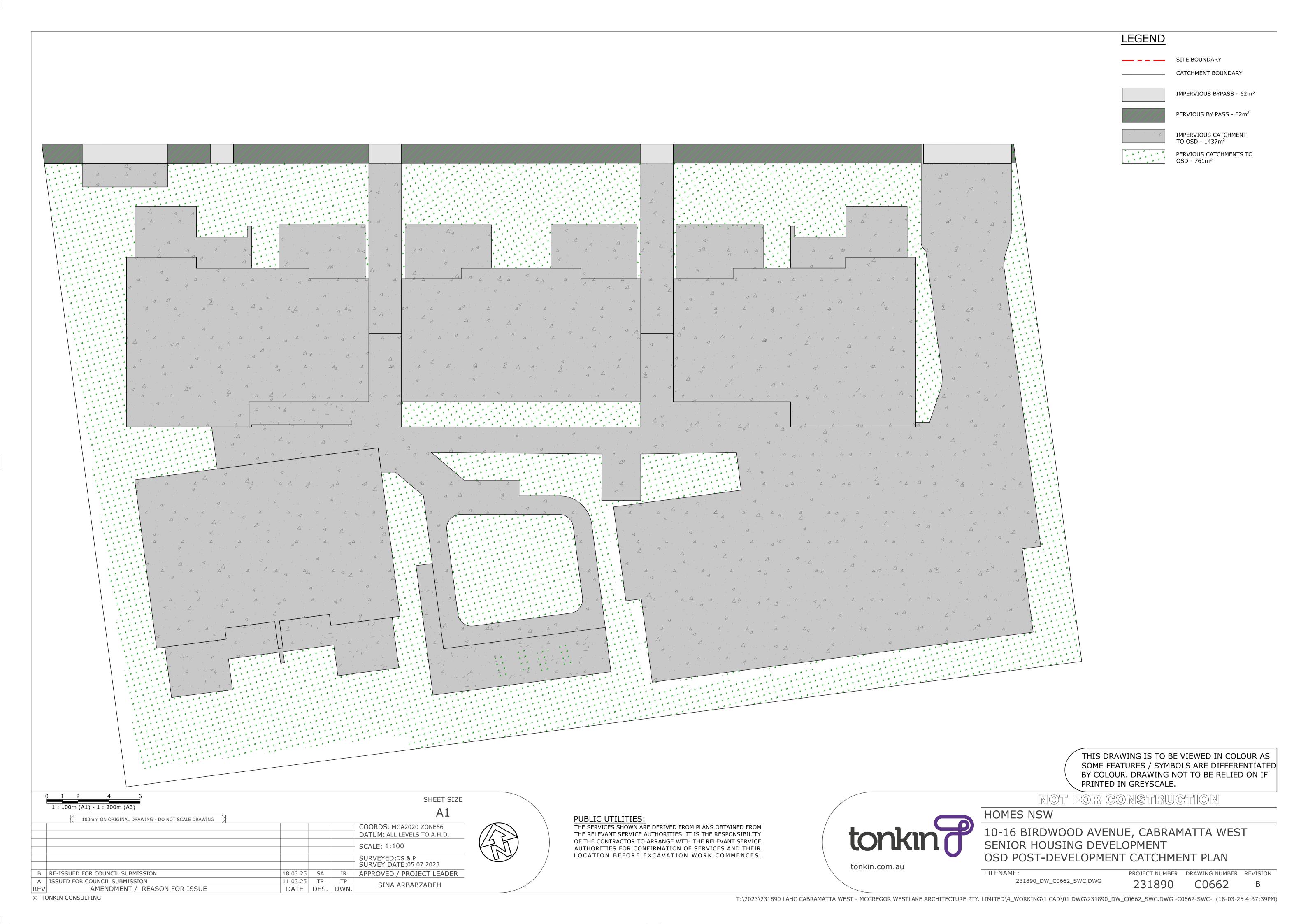
SCALE: N.T.S.

SURVEYED:DS & P
SURVEY DATE:05.07.2023
APPROVED / PROJECT LEADER

A ISSUED FOR COUNCIL SUBMISSION
11.03.25 TP TP
REV AMENDMENT / REASON FOR ISSUE
DATE DES. DWN.



PUBLIC UTILITIES:
THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.



ON-SITE DETENTION RESULTS									
DURATION	1% PRE-DEVELOPMENT FLOW RATE (L/S)	1% POST-DEVELOPMENT FLOW RATE (L/S)	20% PRE-DEVELOPMENT FLOW RATE (L/S)	20% POST-DEVELOPMENT FLOW RATE (L/S)					
5 MINS	65	50	32	28					
15 MINS	90	64	51	38					
30 MINS	78	61	48	37					
60 MINS	57	57	34	29					
90 MINS	50	45	30	28					
120 MINS	53	45	30	27					

PUBLIC UTILITIES:

SHEET SIZE

A1

COORDS: MGA2020 ZONE56

SURVEYED:DS & P SURVEY DATE:05.07.2023

APPROVED / PROJECT LEADER

SINA ARBABZADEH

SCALE: N.T.S.

11.03.25 TP TP DATE DES. DWN.

DATUM: ALL LEVELS TO A.H.D.

THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.

SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE. NOT FOR CONSTRUCTION

tonkin.com.au

HOMES NSW

10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT OSD RESULTS & CALCULATIONS

> FILENAME: 231890_DW_C0663_SWC.DWG

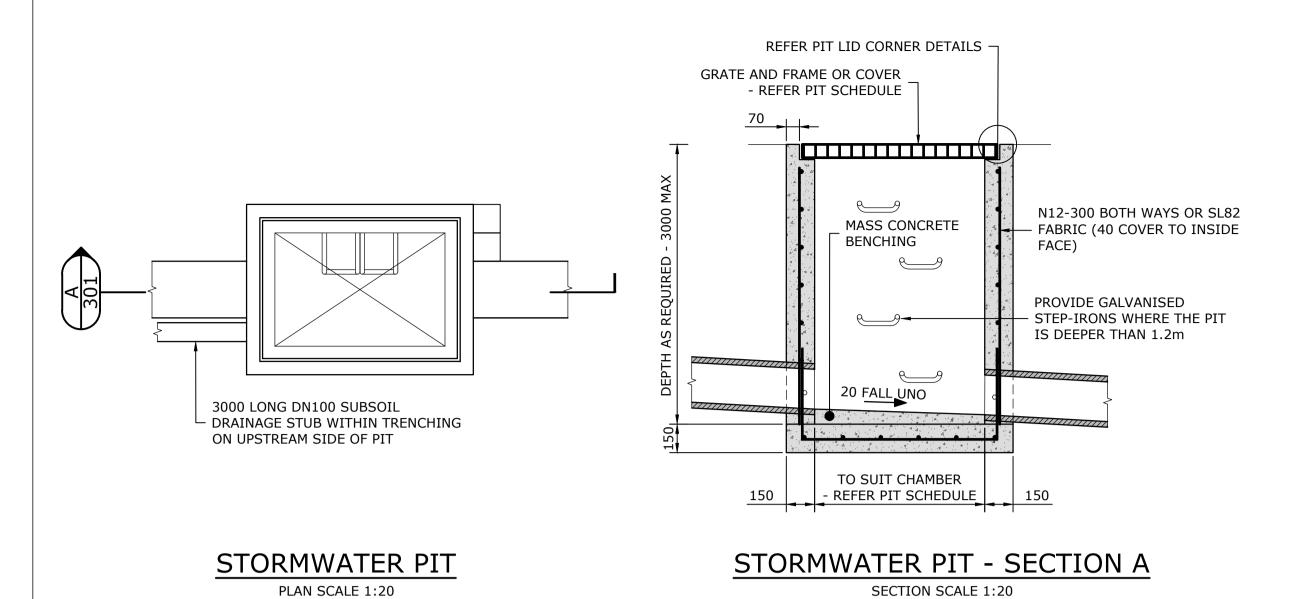
PROJECT NUMBER DRAWING NUMBER REVISION 231890 C0663

THIS DRAWING IS TO BE VIEWED IN COLOUR AS

AMENDMENT / REASON FOR ISSUE © TONKIN CONSULTING

A ISSUED FOR COUNCIL SUBMISSION

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING



CORNER BAR - SAME

HORIZONTAL

PLAN-SINGLE LAYER

PIT CORNER DETAILS

REINFORCEMENT

SIZE AND SPACING AS

REINFORCEMENT

70 _ MIN

DETAIL 2

IN FLEXIBLE PAVEMENT

PIT LID CORNERS

SECTION SCALE 1:10

CORNER BAR - SAME

PLAN-DOUBLE LAYER

FLEXIBLE PAVEMENT

SIZE AND SPACING AS

HORIZONTAL REINFORCEMENT

N12-300

<u>PLAN</u>

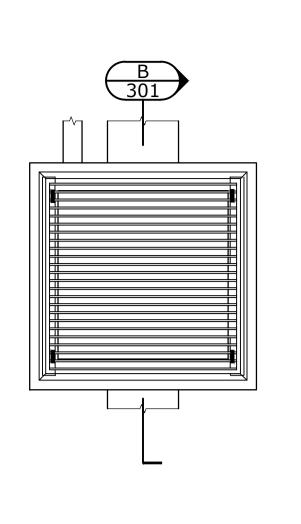
FABRIC

- RIGID PAVEMENT

2N12 TRIMMER BARS TO EXTEND 500 BEYOND PIT FOR EACH SIDE

SLIP JOINT - TWO LAYERS OF

CORNER BAR



RAISED GRATED STORWMATER PIT

PLAN SCALE 1:20

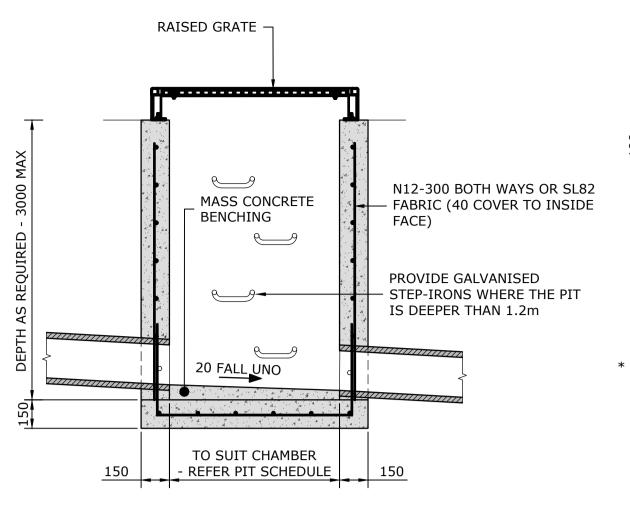
INTERMEDIATE RISER (IR)

SECTION SCALE 1:10

DN100 RIGID uPVC —

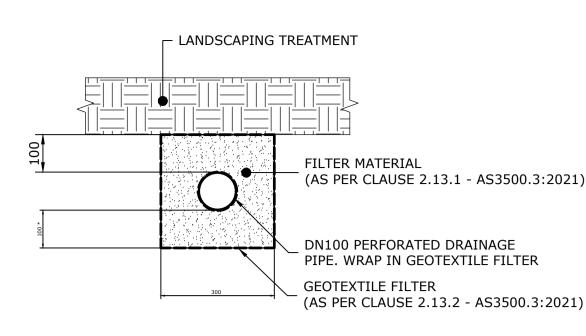
DN100 SUBSOIL

DN100 RIGID uPVC



STORMWATER PIT - SECTION B

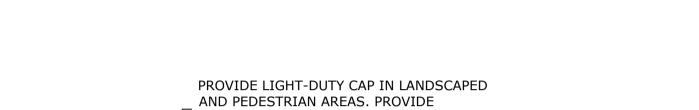
SECTION SCALE 1:20

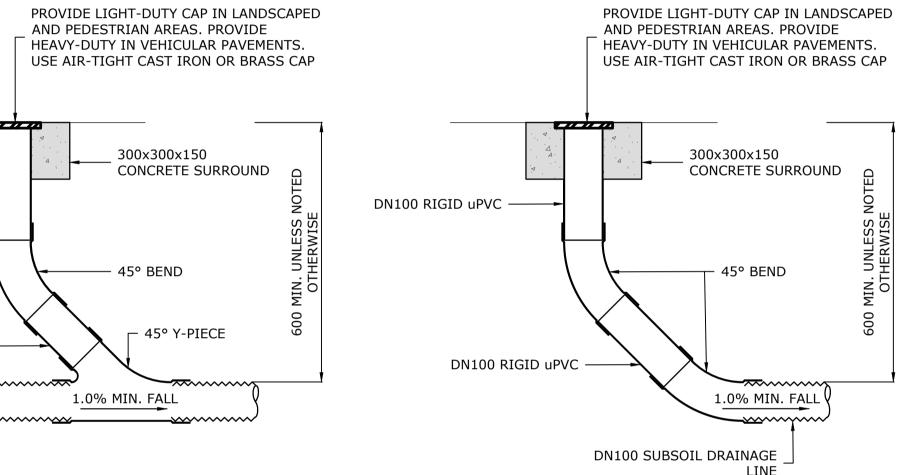


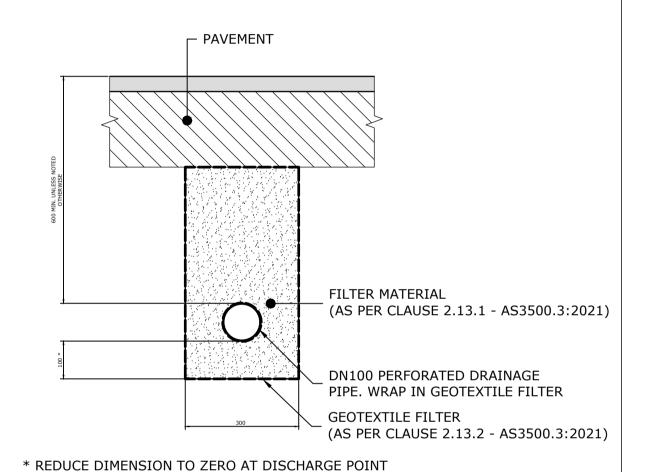
* REDUCE DIMENSION TO ZERO AT DISCHARGE POINT

SUBSOIL DRAINAGE TRENCH LANDSCAPED AREAS

SECTION SCALE 1:10

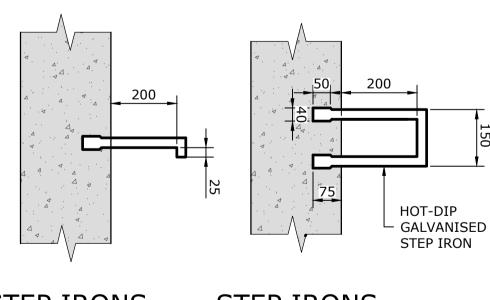






FLUSHING POINT (FP) SECTION SCALE 1:10

SUBSOIL DRAINAGE TRENCH PAVED AREAS SECTION SCALE 1:10



DETAIL 3 IN LANDSCAPING STEP IRONS STEP IRONS SECTION SCALE 1:10 PLAN SCALE 1:10

THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

NOT FOR CONSTRUCTION HOMES NSW

SHEET SIZE 100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING COORDS: MGA2020 ZONE56 DATUM: ALL LEVELS TO A.H.D. SCALE: AS SHOWN SURVEYED:DS & P SURVEY DATE:05.07.2023 04.03.25 BO MD ISSUED FOR COUNCIL SUBMISSION 28.02.25 TP MD APPROVED / PROJECT LEADER B ISSUED FOR COUNCIL SUBMISSION A ISSUED FOR COORDINATION 12.08.24 TP MD SINA ARBABZADEH AMENDMENT / REASON FOR ISSUE DATE DES. DWN.

PUBLIC UTILITIES: THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.





10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT TYPICAL DETAILS

FILENAME: PROJECT NUMBER DRAWING NUMBER REVISION 231890_DW_C0801_DET.DWG 231890 C0801

N12-300 CORNER BAR

ELEVATION AT BASE

DETAIL 1

IN RIGID PAVEMENT

ON-SITE DETENTION SKETCH NOT DRAWN TO SCALE. NOT FOR CONSTRUCTION. 900X900 ACCESS 900X900 ACCESS COVER CLASS D COVER CLASS D 1% AEP T.W.L. 34.88 ▼ ORIFICE Ø185 WEIR RL34.59 mm IL34.18 MESH SCREEN -DN375 OUTLET RL34.30 ▼ 1% FALL IL 34.00 SECTION (A-A) └ 4X90mm DIAMETER WEEPHOLES. WEEPHOLE TO BE FILLED UP WITH 300mm SCALE 1:25

THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

NOT FOR CONSTRUCTION

SHEET SIZE

GRAVELS (BLUE METALS) UP TO THE TOP OF

THE WEEPHOLE.

A1 100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING COORDS: MGA2020 ZONE56 DATUM: ALL LEVELS TO A.H.D. SCALE: N.T.S. D ISSUED FOR COUNCIL SUBMISSION 11.03.25 TP TP SURVEYED:DS & P 04.03.25 BO MD SURVEY DATE:05.07.2023 ISSUED FOR COUNCIL SUBMISSION 28.02.25 TP MD APPROVED / PROJECT LEADER

12.08.24 TP MD
DATE DES. DWN.

SINA ARBABZADEH B ISSUED FOR COUNCIL SUBMISSION A ISSUED FOR COORDINATION AMENDMENT / REASON FOR ISSUE



PUBLIC UTILITIES: THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.





HOMES NSW

10-16 BIRDWOOD AVENUE, CABRAMATTA WEST SENIOR HOUSING DEVELOPMENT OSD DETAILS

FILENAME: PROJECT NUMBER DRAWING NUMBER REVISION 231890_DW_C0802_DET.DWG 231890 C0802