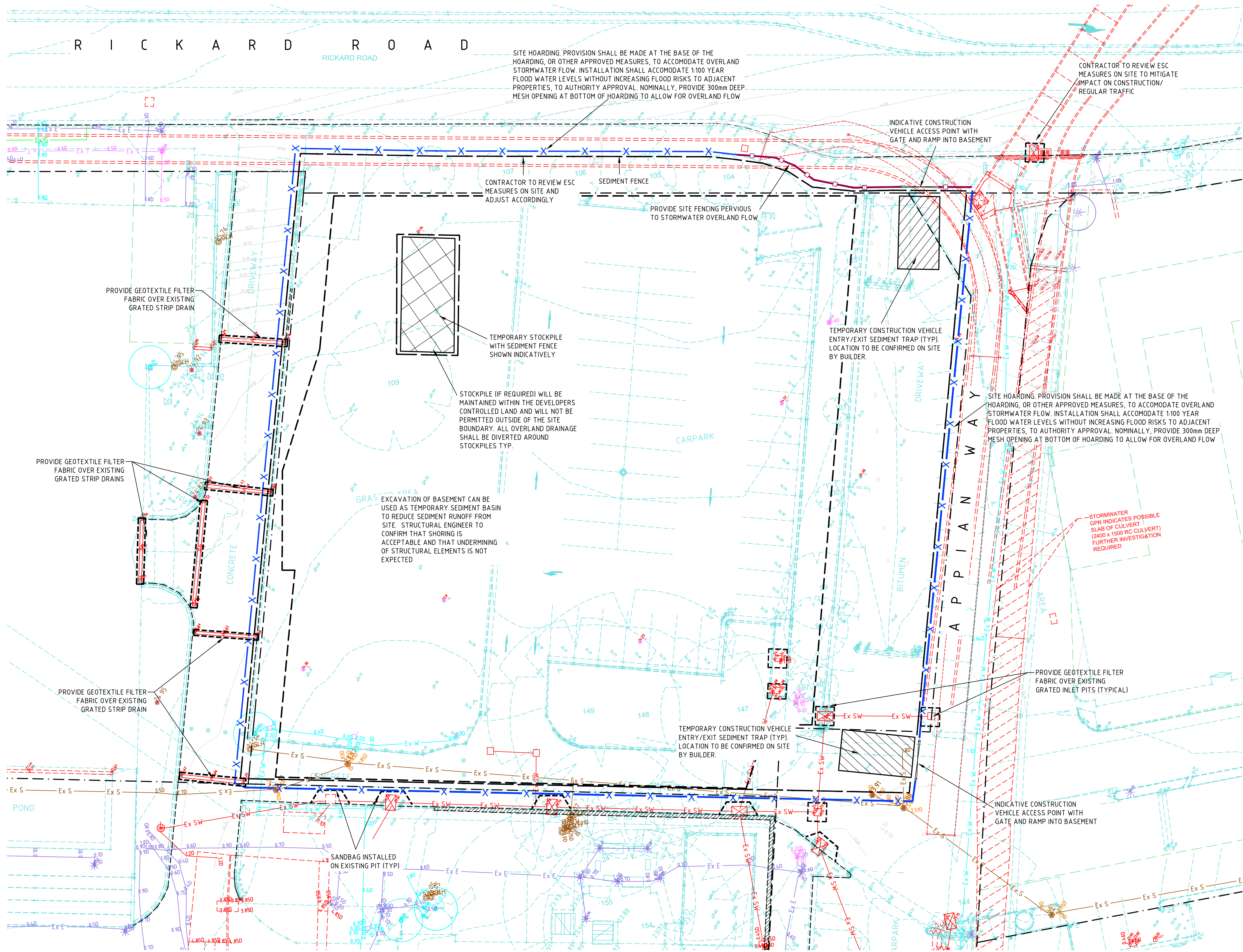




SEDIMENT & EROSION CONTROL LEGEND

- TYPE A HOARDING
- SEDIMENT FENCE
- TYPE B HOARDING
- TEMPORARY SHAKER RAMP FOR ENTRY/EXIT
- TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)
- SANDBAGS INSTALLED ON EXISTING PIT
- GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON EXISTING PIT

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EXISTING STORMWATER DRAINAGE LINE
- EXISTING SEWER LINE
- EXISTING WATER MAIN
- EXISTING GAS LINE
- EXISTING TELECOMMUNICATIONS LINE
- EXISTING ELECTRICAL LINE
- EXISTING UNKNOWN SERVICE
- EXISTING SERVICE TO BE MADE REDUNDANT

GENERAL NOTE
DUE TO SITE CONDITIONS, THE CONTRACTOR SHALL RECEIVE PERMISSION TO ENCROACH ONTO PRIVATE/PUBLIC ROADS TO UNDERTAKE ANY WORKS. THE CONTRACTOR MUST OBTAIN WRITTEN PERMISSION PRIOR TO ENTERING THE PRIVATE ROADS TO PERFORM WORKS. COPIES OF THIS CONSENT MUST BE SUBMITTED TO COUNCIL AND THE ENGINEER, PRIOR TO ANY WORKS BEING PERFORMED, FAILURE TO COMPLY IS AT THE CONTRACTORS OWN RISK.

SOIL AND WATER MANAGEMENT NOTES

- IT HAS BEEN ASSUMED THAT SEDIMENT FENCING WILL BE PROVIDED TO THE STAGE BOUNDARY SUFFICIENT TO PREVENT SEDIMENT RUNOFF FROM LEAVING SITE (EXCEPT IN THE CASE OF ENTRY/EXIT LOCATIONS WHERE TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP ARE PROVIDED). IF THIS IS NOT THE CASE, PROVIDE SEDIMENT FENCE TO STANDARD DETAIL BELOW AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE, DIRECT RUNOFF TO SEDIMENT BASIN.
- ALL SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH LANDCOM MANAGING URBAN STORMWATER "BLUE BOOK".
- MINIMISE CLEARING OUTSIDE BASEMENT EXTENT.
- SEDIMENT CONTROL FOR LANDSCAPED WORKS DOWNSTREAM OF THE BUILDING TO INCLUDE A SILTFENCE AND SANDBAGS AS REQUIRED. TO BE MANAGED AT A RATE OF 50L/S BY THE CONTRACTOR ON SITE. INSTALL CATCH DRAIN TO DIVERT UPSTREAM CATCHMENT AWAY FROM DISTURBED SOIL AREA.

SEDIMENT CONTROL CONDITIONS

- SEDIMENT FENCES WILL BE INSTALLED AS SHOWN AND ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER TO CONTAIN COARSER SEDIMENT FRACTIONS INCLUDING AGGREGATED FINES) AS NEAR AS POSSIBLE TO THEIR SOURCE.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICE WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS & WATERWAYS CANNOT OCCUR.
- STOCKPILES WILL BE PLACED WHERE SHOWN ON DRAWING OR ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER AND NOT WITHIN 5m OF HAZARD AREAS INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS & DRIVEWAYS.
- WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM WITH INLET FILTERS (SEE DETAILS) UNLESS IT IS SEDIMENT FREE.
- TEMPORARY SEDIMENT TRAPS WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- CONTRACTOR TO DESIGN/SIZE/CONSTRUCT TEMPORARY SEDIMENT BASIN, WATER SHOULD BE ALLOWED TO SETTLE BEFORE DISCHARGE. CONTRACTOR MUST VERIFY THAT WATER QUALITY MEETS AUTHORITIES REQUIREMENTS PRIOR TO DISCHARGE. ACCUMULATED SEDIMENT SHOULD THEN BE REMOVED & DISPOSED OF IN ACCORDANCE WITH ENVIRONMENTAL MANAGEMENT PROCEDURES.

WARNING
BEWARE OF UNDERGROUND SERVICES
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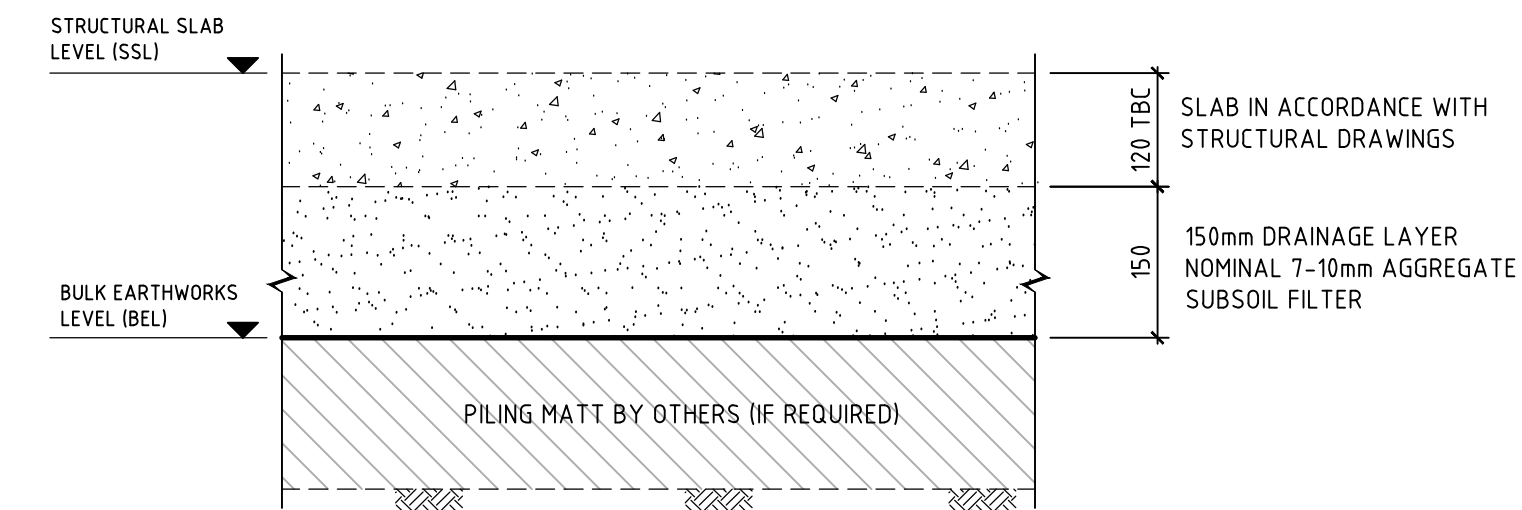
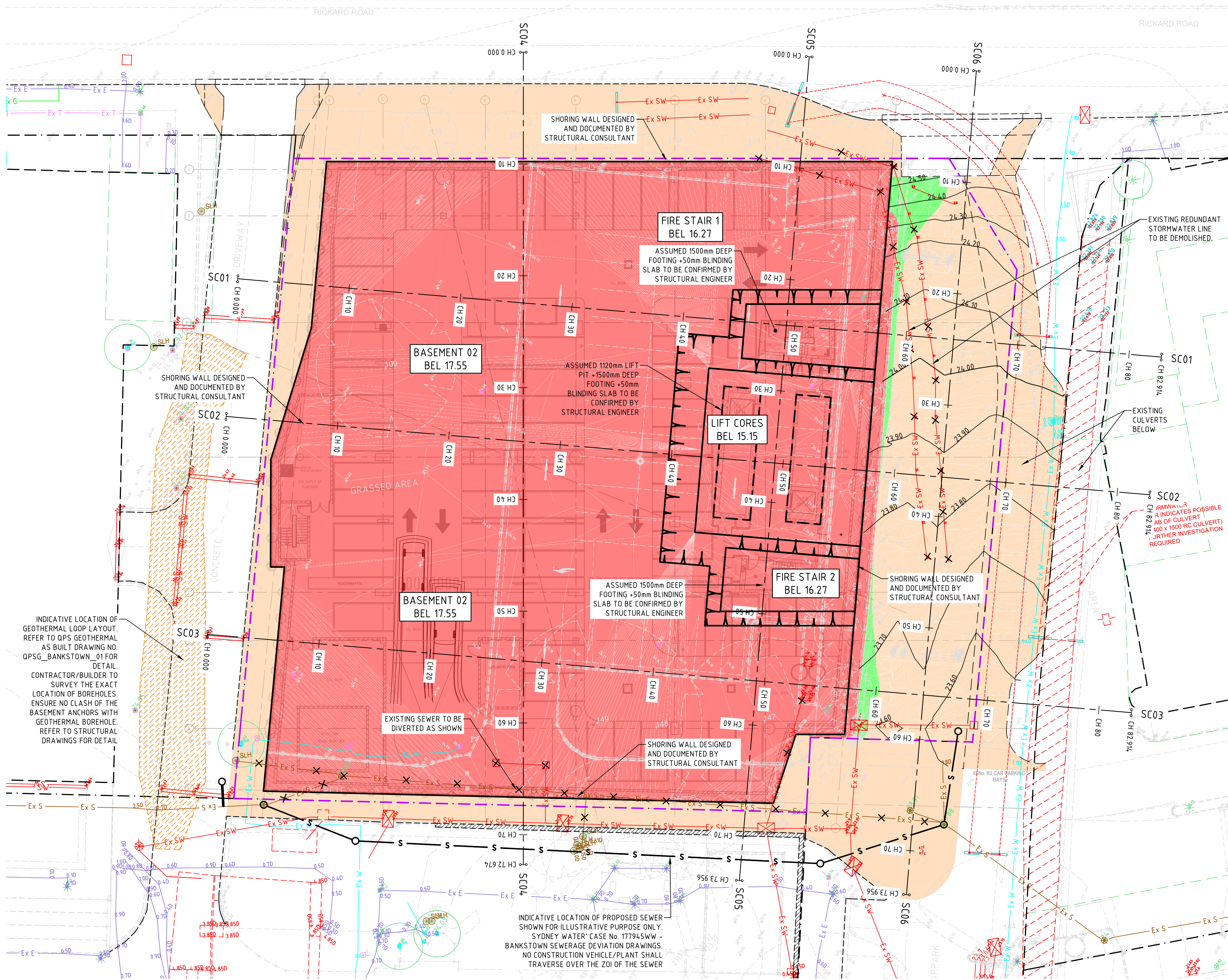
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PROJECT
NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS
74 RICKARD ROAD ALONG WITH A PORTION OF 375 CHAPEL ROAD
DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN

SSDA SUBMISSION		NORTH	
		SCALE 1:200 @ A1	
JOB No. 1097901C	DRAWN PA	CHECKED -	DATE -
DRAWING No. C00-05			REVISION 08

FOR ILLUSTRATIVE PURPOSE ONLY. BULK EARTHWORKS
SUBJECT TO SEPARATE DEVELOPMENT APPLICATION



BUILDING BULK EARTHWORKS DETAIL
SCALE 1:10

EXCAVATION NOTES

- E1 VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION. VOLUMES HAVE BEEN CALCULATED BETWEEN 150mm STRIPPED SURFACE LEVELS AND BULK EARTHWORKS LEVELS.
- E2 GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS. DE-WATERING MAY BE REQUIRED IN THIS INSTANCE.
- E3 THIS DRAWING ONLY DETAILS EXCAVATION ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS).
- E4 PROVIDE TEMPORARY MAXIMUM 1 IN 1 BATTERS U.N.O. GEOTECH TO CONFIRM BATTER ACCEPTABILITY DURING CONSTRUCTION.
- E5 REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
- E6 THE STRUCTURAL ENGINEER IS TO CHECK AND VERIFY THAT THE SHORING WALL WILL NOT BE UNDERMINED BY LARGE RAINFALL EVENTS FILLING THE EXCAVATION AND CAN WITHSTAND ANY FORCES OR UNDERMINING.
- E7 NOMINAL SLAB AND GRANULAR THICKNESSES OF BELOW THE BASEMENT SLAB FINISH LEVEL HAVE BEEN ALLOWED FOR IN THE BULK EARTHWORKS AS PER THE BUILDING BULK EARTHWORKS DETAIL ABOVE.
- E8 THE CONTRACTOR SHALL BE MADE AWARE AND REMINDED OF THE SITES POTENTIAL TO FLOOD IN LARGE RAINFALL EVENTS AND THE ABILITY OF THE FLOODWATERS TO INUNDATE THE SITE. THEY SHALL ENSURE TO POST SIGNS, CREATE A WARNING SYSTEM/ALARMS AND TRAIN THEIR STAFF AND SITE VISITORS ON EVACUATION PROCEDURES FROM THE SITE IN CASE OF SUCH A SCENARIO. THE CONTRACTOR SHALL ALSO ENSURE TO MOVE ALL PLANT HIRES INCLUDING ELECTRICITY, GENERATORS, AND VEHICLES TO HIGH GROUND WITHIN THE SITE AT THE END OF EACH DAY AND BEFORE LARGE RAINFALL EVENTS TO MINIMISE THE POTENTIAL FOR DAMAGE.
- E9 SITE SURVEY SUPPLIED BY 'RPS AUSTRALIA EAST' PTY LTD JOB No. PR140676 ISSUE D DATED 21.07.20 DRAWING No. PR140676-DS-001D
- E10 EXISTING SERVICES SURVEY SUPPLIED BY 'RPS AUSTRALIA EAST' PTY LTD JOB No. PR140676 ISSUE E DATED 21.07.20 DRAWING No. PR140676-SERVICES-001-E

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EX SW --- EXISTING STORMWATER DRAINAGE LINE
- EX S --- EXISTING SEWER LINE
- EX W --- EXISTING WATER MAIN
- EX G --- EXISTING GAS LINE
- EX T --- EXISTING TELECOMMUNICATIONS LINE
- EX E --- EXISTING ELECTRICAL LINE
- EX U --- EXISTING UNKNOWN SERVICE
- EX S --- EXISTING SERVICE TO BE MADE REDUNDANT
- S --- INDICATIVE LOCATION OF PROPOSED SEWER SHOWN FOR ILLUSTRATIVE PURPOSE ONLY. SYDNEY WATER CASE No. 177945SWW - BANKSTOWN SEWERAGE DEVIATION DRAWINGS. NO CONSTRUCTION VEHICLE/PLANT SHALL TRAVERSE OVER THE ZOI OF THE SEWER

BULK EARTHWORKS LEGEND

- EXTENT OF BASEMENT CUT TO BULK EARTHWORKS LEVEL
- EXTENT OF EXTERNAL WORKS CUT TO BULK EARTHWORKS LEVEL
- EXTENT OF FILL TO BULK EARTHWORKS LEVEL
- BEL 17.55 --- FINISHED BULK EARTHWORKS MINOR SURFACE CONTOUR
- 24.10 --- BULK EARTHWORKS MAJOR SURFACE CONTOUR
- 24.00 --- BULK EARTHWORKS MAJOR SURFACE CONTOUR

BULK EARTHWORKS QUANTITIES
SUMMARY (IN-PLACE)

- 150mm STRIPPED SURFACE (ASSUMED TO BE REMOVED OFF-SITE) = 600m³
- TOTAL CUT VOLUME = 21,000m³
- VOLUME INCLUDES THE FOLLOWING:
- BASEMENT EXCAVATION = 20,490m³
 - APPIAN WAY AND PUBLIC REALM = 130m³
- TOTAL FILL VOLUME = 3m³
- VOLUME INCLUDES THE FOLLOWING:
- BACKFILL TO UNDERSIDE OF PAVEMENT IN APPIAN WAY
- TOTAL EXPORT CUT REQUIRED = 20,997m³

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NOT FOR CONSTRUCTION

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06	FOR SEARS	23.08.19
07	ISSUED FOR TENDER	07.04.20
08	SSDA SUBMISSION	31.07.20
09	SSDA SUBMISSION	14.08.20
10	SSDA SUBMISSION	24.08.20

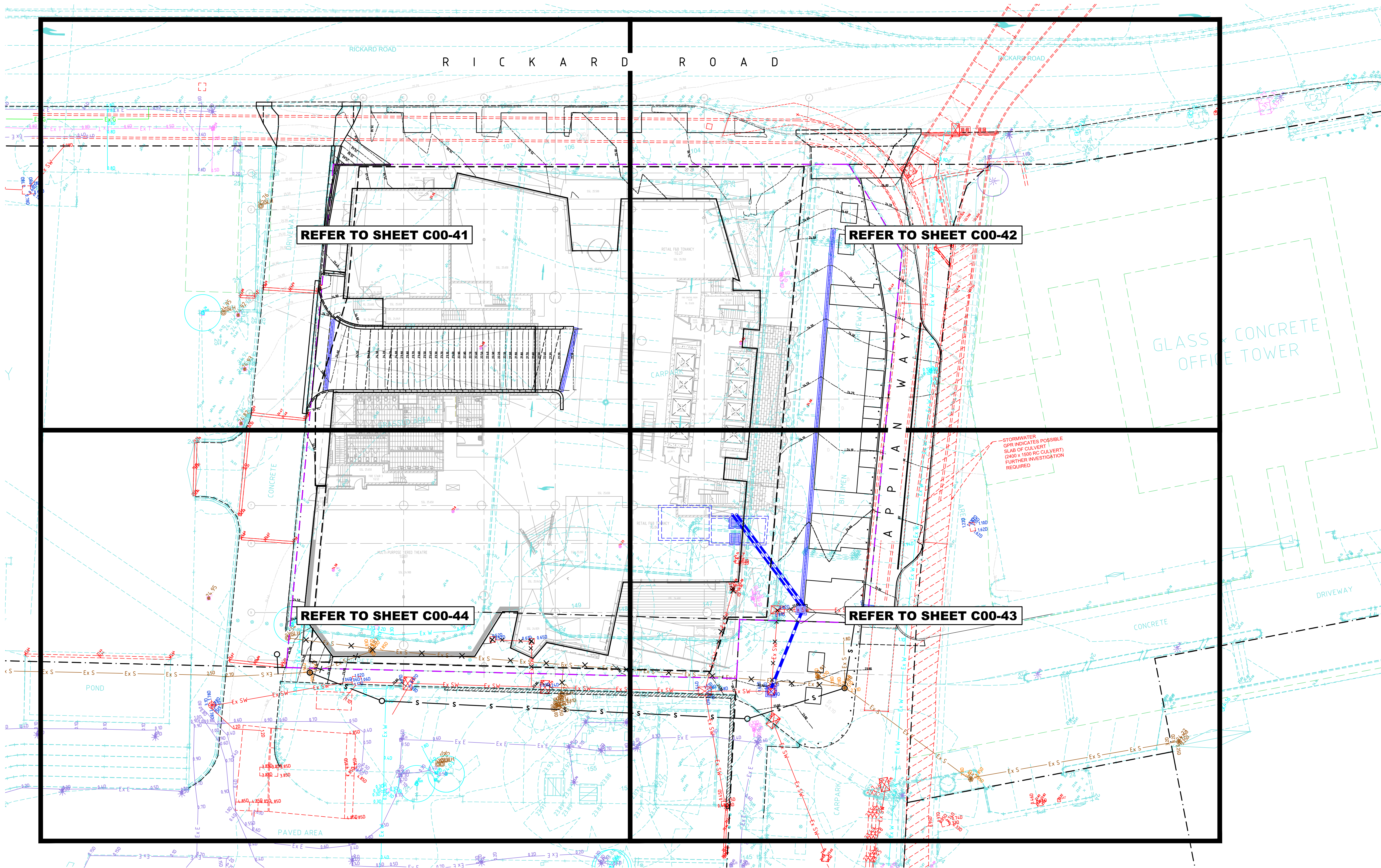
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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD
DRAWING TITLE
BULK EARTHWORKS PLAN

NORTH
SCALE
1:200@ A1
DATE
-
REVISION
-
JOB No. 1097901C
DRAWN JF
CHECKED -
DRAWING No. C00-10
10



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REV. DETAILS
01 SS04 SUBMISSION
02 SS04 SUBMISSION

DATE
31.07.20
14.08.20

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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD
DRAWING TITLE
GENERAL SITE PLAN

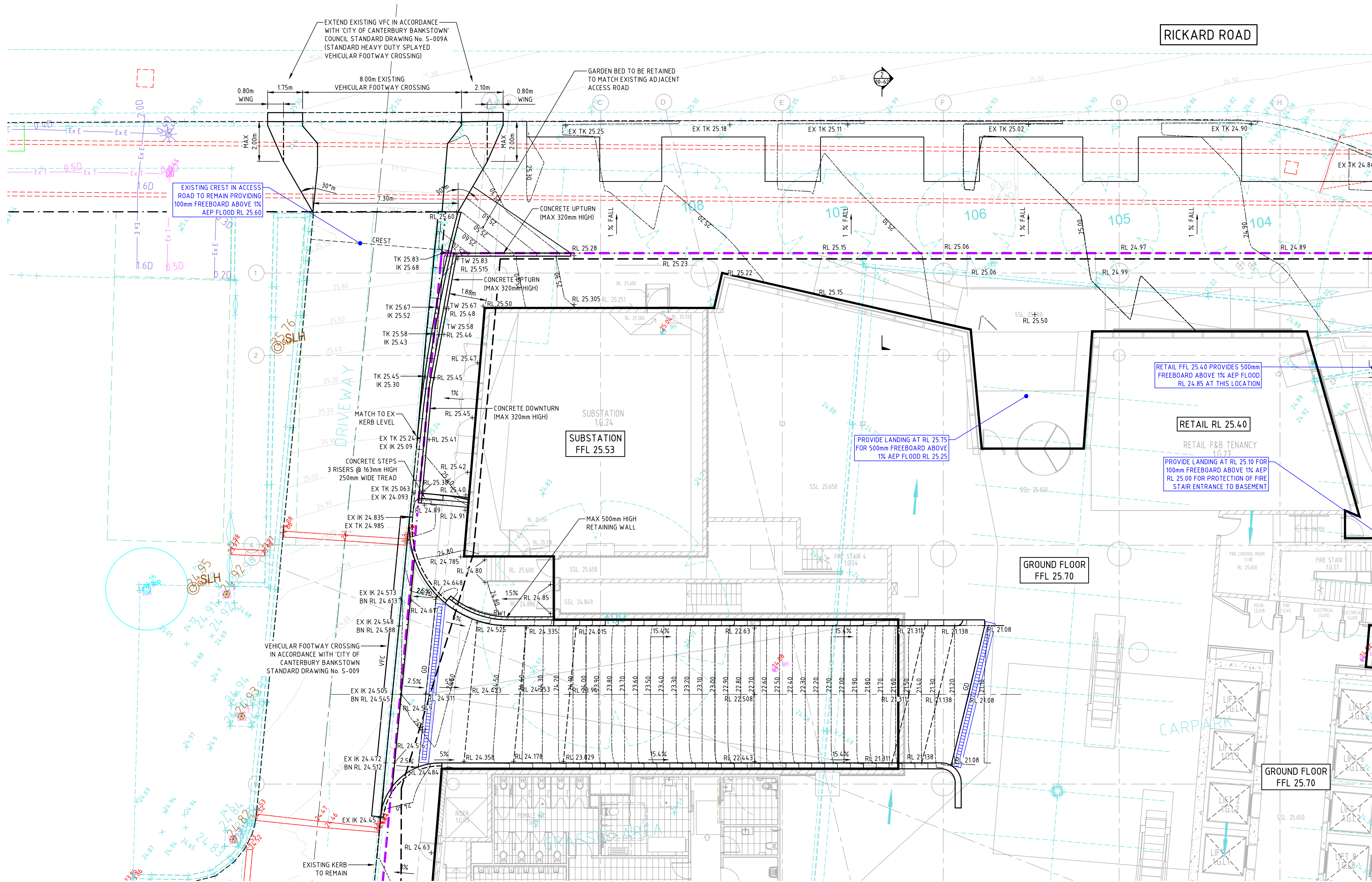
SSDA SUBMISSION

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CHECKED -
DATE -
REVISION -
C00-40
02

NORTH
SCALE
1:200 @ A1
DATE
REVISION

RICKARD ROAD

RICKARD ROAD



REFER TO DRAWING C042 FOR CONTINUATION

SURVEY LEGEND

- SITE BOUNDARY
- +24.50 EX SURFACE LEVEL
- 5.00 EX SURFACE CONTOUR
- EX TREE
- Ex SW EXISTING STORMWATER DRAINAGE LINE
- Ex S EXISTING SEWER LINE
- Ex W EXISTING WATER MAIN
- Ex G EXISTING GAS LINE
- Ex T EXISTING TELECOMMUNICATIONS LINE
- Ex E EXISTING ELECTRICAL LINE
- EXISTING UNKNOWN SERVICE
- Ex E EXISTING SERVICE TO BE MADE REDUNDANT

SITEWORKS LEGEND

- EX RL 7.25 + EXISTING FINISHED SURFACE LEVEL
- RL 7.25 + FINISHED SURFACE SPOT LEVEL
- XX% FALL DIRECTION AND GRADE OF FALL
- FINISHED MINOR SURFACE CONTOUR
- 5.00 FINISHED MINOR SURFACE CONTOUR
- K0 KERB ONLY
- VC VEHICULAR CROSSING
- FK FLUSH KERB
- B BOLLARD IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS

DRAINAGE LEGEND

- SURFACE INLET PIT
- JUNCTION PIT
- IL 0.00 PIPE Ø IL 0.00 STORMWATER DRAINAGE LINE
- GD GRATED DRAIN

NOTE: REFER TO HYDRAULIC DRAWINGS FOR DOWNPIPE LOCATION AND CONNECTION TO RAINWATER TANK

REFER TO DRAWING C044 FOR CONTINUATION

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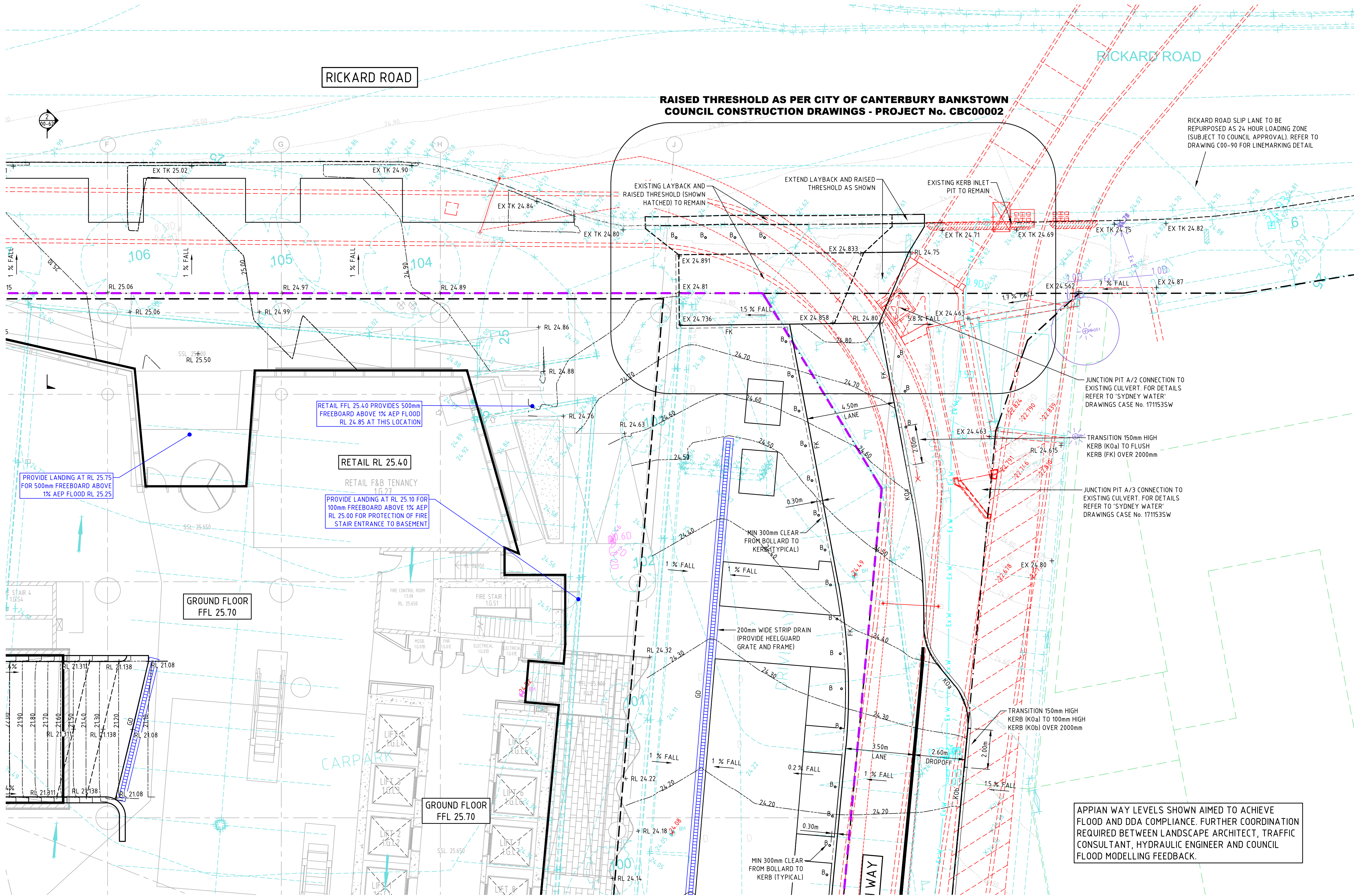
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PROJECT
NEW WESTERN SYDNEY UNIVERSITY BANKSTOWN CITY CAMPUS
74 RICKARD ROAD ALONG WITH A PORTION OF 375 CHAPEL ROAD
DRAWING TITLE
SITEWORKS AND STORMWATER DRAINAGE PLAN-SHEET 1

SSDA SUBMISSION

JOB No.	DRAWN	CHECKED	DATE
1097901C	PA	-	
DRAWING No.			REVISION
C00-41			09

REFER TO DRAWING C041 FOR CONTINUATION



SURVEY LEGEND

- SITE BOUNDARY
- +24.50 EX SURFACE LEVEL
- 5.00 EX SURFACE CONTOUR
- EX TREE
- Ex SW EXISTING STORMWATER DRAINAGE LINE
- Ex S EXISTING SEWER LINE
- Ex W EXISTING WATER MAIN
- Ex G EXISTING GAS LINE
- Ex T EXISTING TELECOMMUNICATIONS LINE
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- RL 7.25 + FINISHED SURFACE SPOT LEVEL
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- FINISHED MINOR SURFACE CONTOUR
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- K0 KERB ONLY
- VC VEHICULAR CROSSING
- FK FLUSH KERB
- B. BOLLARD IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS

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- JUNCTION PIT
- IL 0.00 PIPE Ø IL 0.00 STORMWATER DRAINAGE LINE
- GD GRATED DRAIN

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04	SSDA SUBMISSION	31.07.20
05	SSDA SUBMISSION	14.08.20

DATE

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**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION OF 375 CHAPEL ROAD

DRAWING TITLE
SITEWORKS AND STORMWATER DRAINAGE PLAN-SHEET 2

SSDA SUBMISSION

JOB No. 1097901C

DRAWN PA

CHECKED -

DRAWING No. C00-42

REVISION

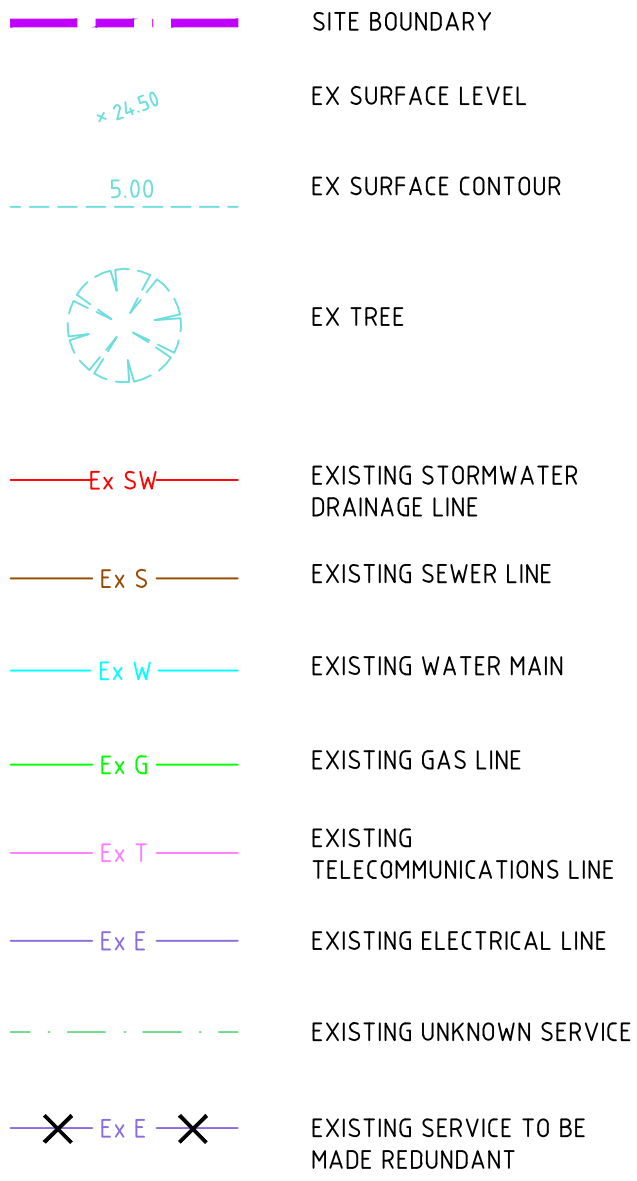
05

NORTH



SCALE
1:100 @ A1

DATE



EX RL 7.25 +	EXISTING FINISHED SURFACE LEVEL
RL 7.25 +	FINISHED SURFACE SPOT LEVEL
XX % FALL ←	DIRECTION AND GRADE OF FALL
-----	FINISHED MINOR SURFACE CONTOUR
5.00 -----	FINISHED MINOR SURFACE CONTOUR
== K0 ==	KERB ONLY
== VC ==	VEHICULAR CROSSING
== FK ==	FLUSH KERB
B. ○	BOLLARD IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS

NOTE: REFER TO HYDRAULIC DRAWINGS
FOR DOWNPIPE LOCATION AND
CONNECTION TO RAINWATER TANK

REFER TO DRAWING C044 FOR CONTINUATION

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES SHOWN
ARE APPROXIMATE ONLY AND THEIR EXACT
POSITION SHOULD BE PROVEN ON SITE.

WARNING
NO DRAINAGE WORKS SHALL COMMENCE
UNTIL THE CONTRACTOR CONFIRMS THE
I.L. OF ALL EXISTING DRAINS, AND
CONFIRMS IN WRITING WITH THE
ENGINEERING SUPERVISOR.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE.
THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.



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REV.	DETAILS	
01	FOR SEARS	19.07.15
02	FOR SEARS	23.08.15
03	DRAFT SSDA	22.07.20
04	SSDA SUBMISSION	31.07.20
05	SSDA SUBMISSION	14.08.20

DATE _____

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GENERAL NOTES

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sydney@bonaccigroup.com
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NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE

SITEWORKS AND STORMWATER
DRAINAGE PLAN-SHEET 3

SSDA SUBMISSION

JOB No.	DRAWN	CHECKED
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DRAWING No.
C00-43

NORTH



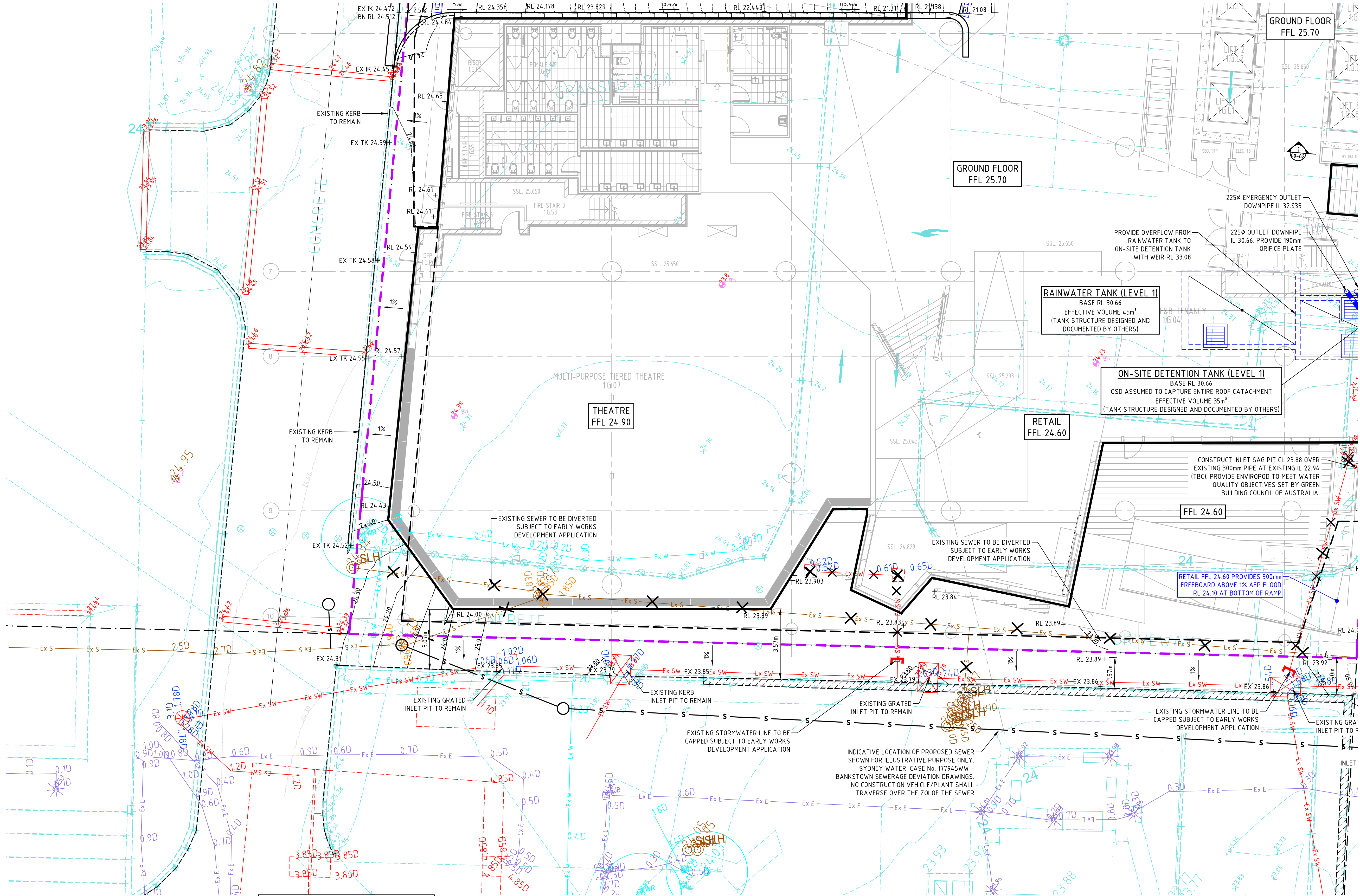
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DATE _____

REVISION

05

REFER TO DRAWING C041 FOR CONTINUATION



REFER TO DRAWING C043 FOR CONTINUATION

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EXISTING STORMWATER DRAINAGE LINE
- EXISTING SEWER LINE
- EXISTING WATER MAIN
- EXISTING GAS LINE
- EXISTING TELECOMMUNICATIONS LINE
- EXISTING ELECTRICAL LINE
- EXISTING UNKNOWN SERVICE
- EXISTING SERVICE TO BE MADE REDUNDANT

SITEWORKS LEGEND

- EXISTING FINISHED SURFACE LEVEL
- FINISHED SURFACE SPOT LEVEL
- DIRECTION AND GRADE OF FALL
- FINISHED MINOR SURFACE CONTOUR
- FINISHED MINOR SURFACE CONTOUR
- KERB ONLY
- VEHICULAR CROSSING
- FLUSH KERB
- BOLLARD IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS

DRAINAGE LEGEND

- SURFACE INLET PIT
- JUNCTION PIT
- STORMWATER DRAINAGE LINE
- GRATED DRAIN

NOTE: REFER TO HYDRAULIC DRAWINGS FOR DOWNPIPE LOCATION AND CONNECTION TO RAINWATER TANK

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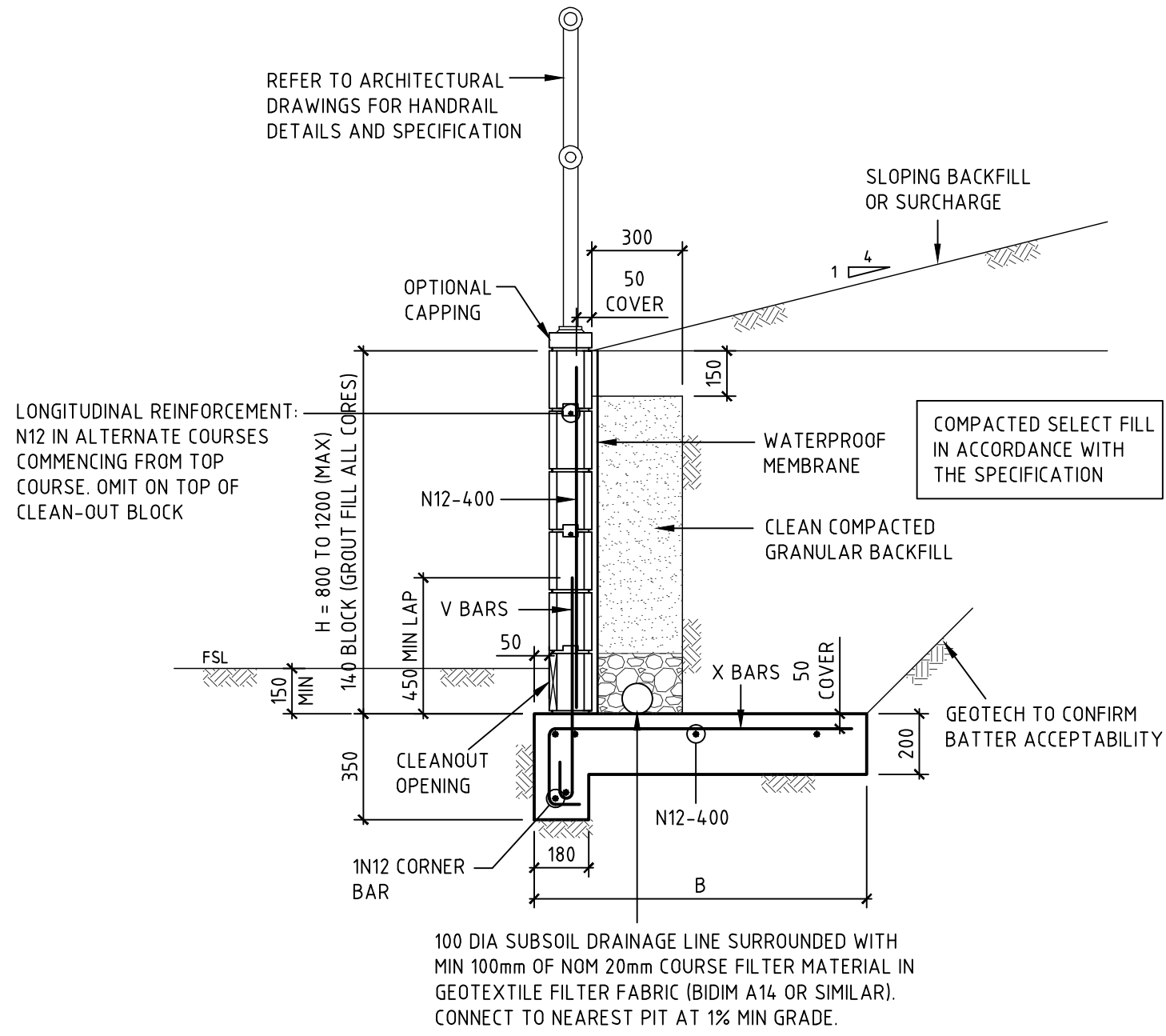
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DRAWING TITLE
SITEWORKS AND STORMWATER DRAINAGE PLAN-SHEET 4

SSDA SUBMISSION

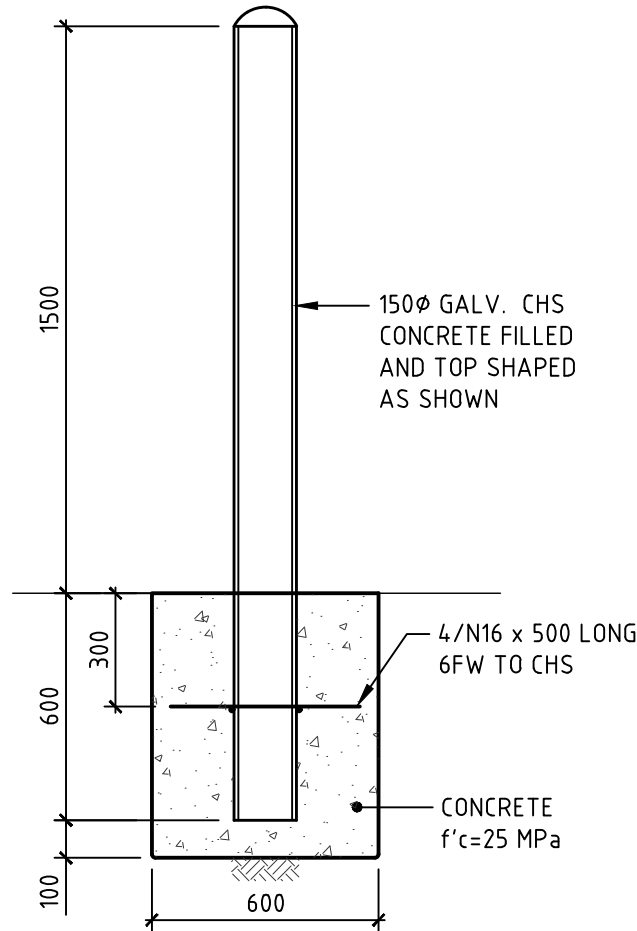
JOB No. 1097901C
DRAWN PA
CHECKED -
DATE -
REVISION -
C00-44

NORTH
SCALE
1:100 @ A1
DATE
REVISION
05

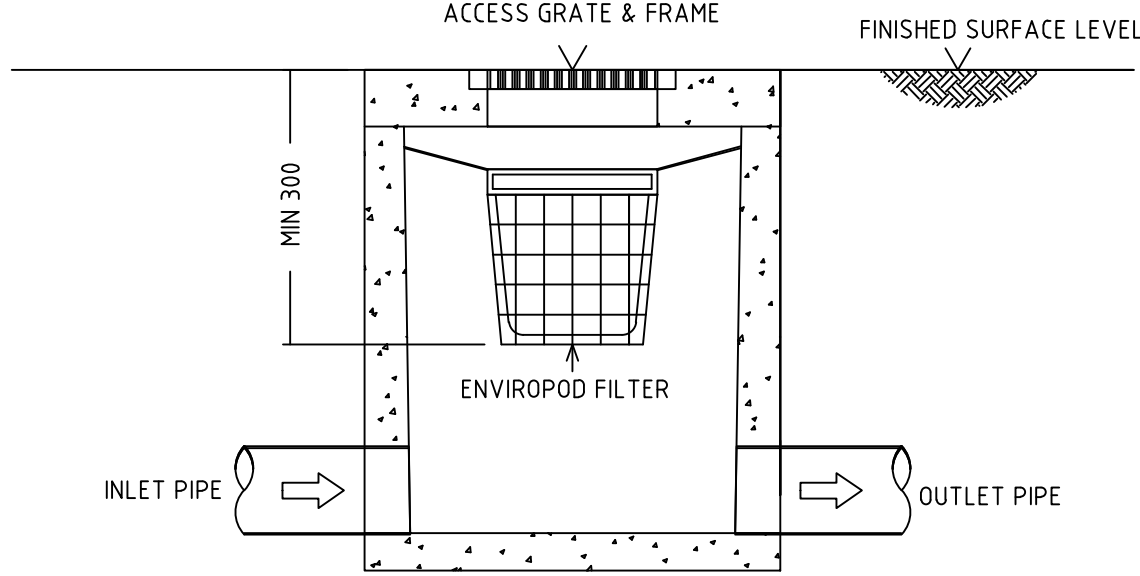


BLOCK RETAINING WALL (MAX 1200 HIGH)
SCALE 1:20

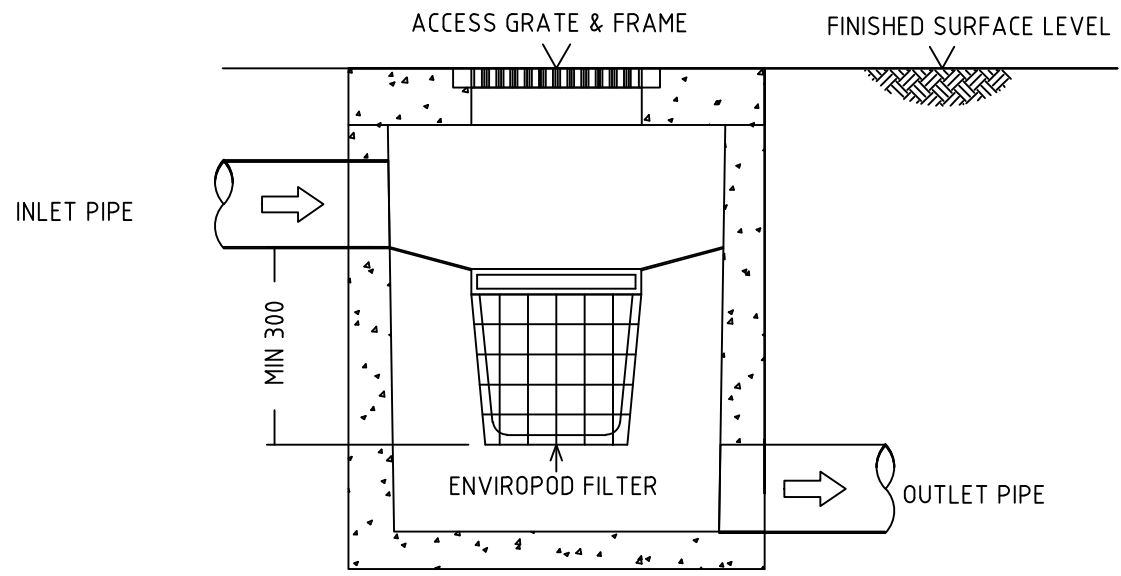
NOTE: DESIGNER TO CHECK THE NEED FOR SHEAR KEY



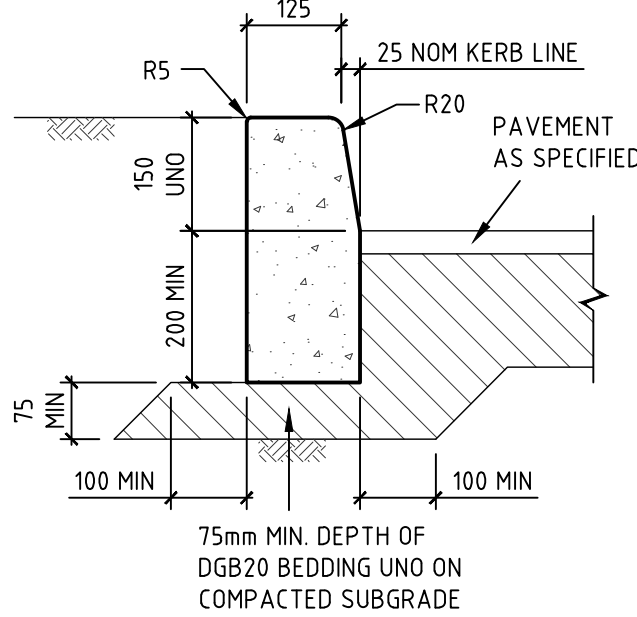
BOLLARD DETAIL
SCALE 1:20



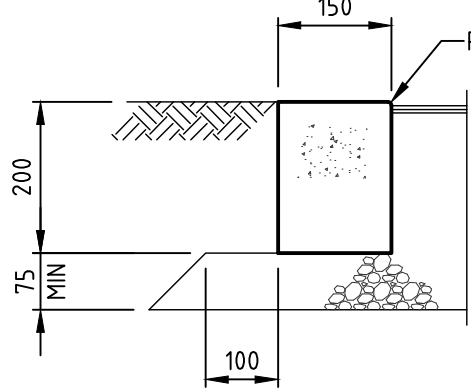
STANDARD ENVIROPOD CONFIGURATION SECTION



DROP PIPE ENVIROPOD CONFIGURATION SECTION



KERB ONLY (K0a)
SCALE 1:10



FLUSH KERB (FK)
SCALE 1:10

BLOCK RETAINING WALL BASE TYPE 1							
WALL HEIGHT				REINFORCEMENT		BASE DIMENSIONS	
TOTAL HEIGHT (mm) H	HEIGHT OF BLOCKWORK			X-BARS AND V-BARS	K-BARS	WIDTH, B (mm) WITH FOLLOWING BACKFILL CONDITIONS	
	150 SERIES	200 SERIES	300 SERIES			LEVEL	MAX 1:4 SLOPE
800	800	-	-	N12-400	-	800	1000
1000	1000	-	-	N12-400	-	1000	1200

TYPICAL ENVIROPOD PIT DETAILS

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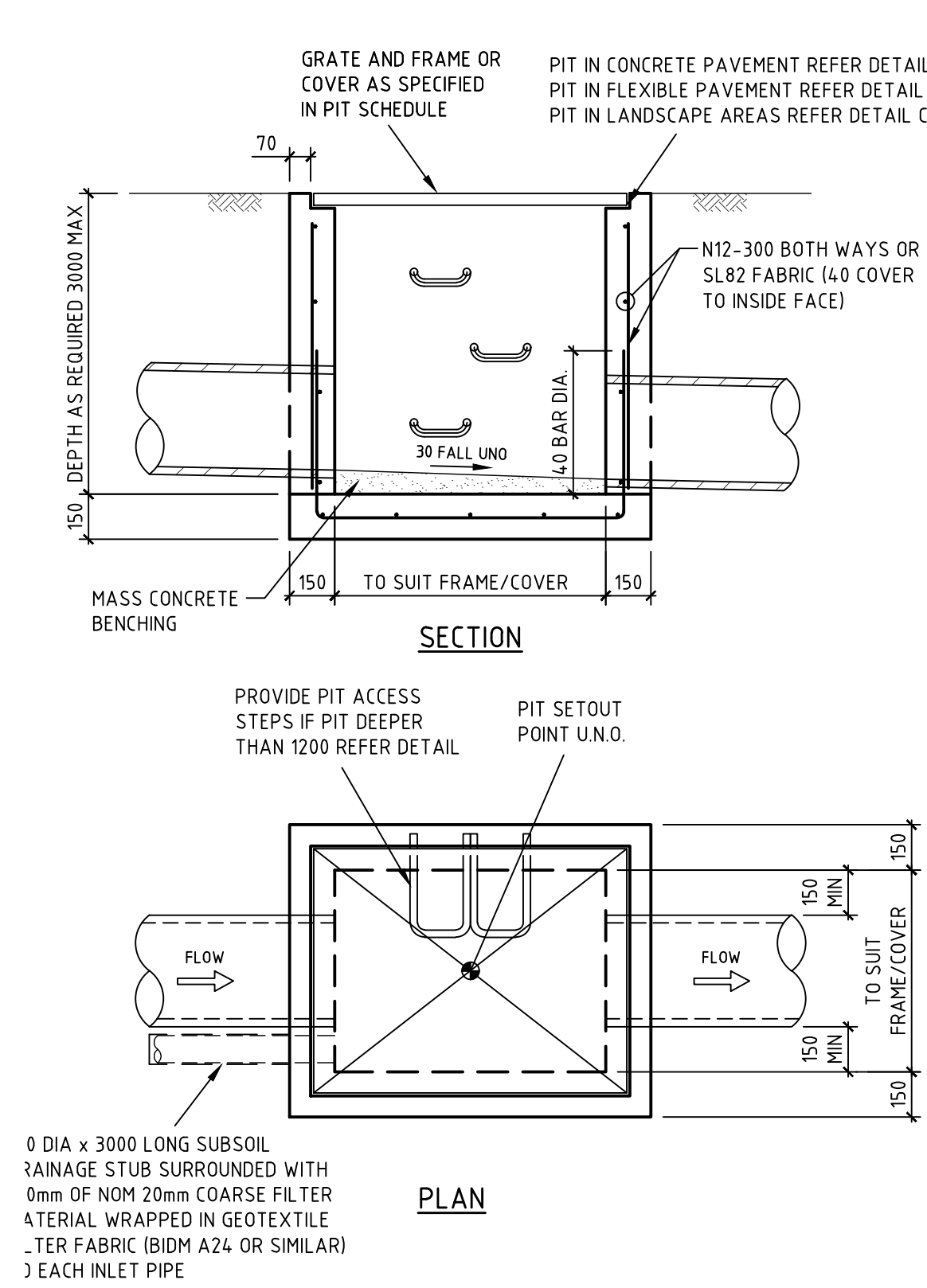
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74 RICKARD ROAD ALONG WITH A PORTION OF 375 CHAPEL ROAD

DRAWING TITLE
SITWORKS AND STORMWATER DRAINAGE DETAILS SHEET 1

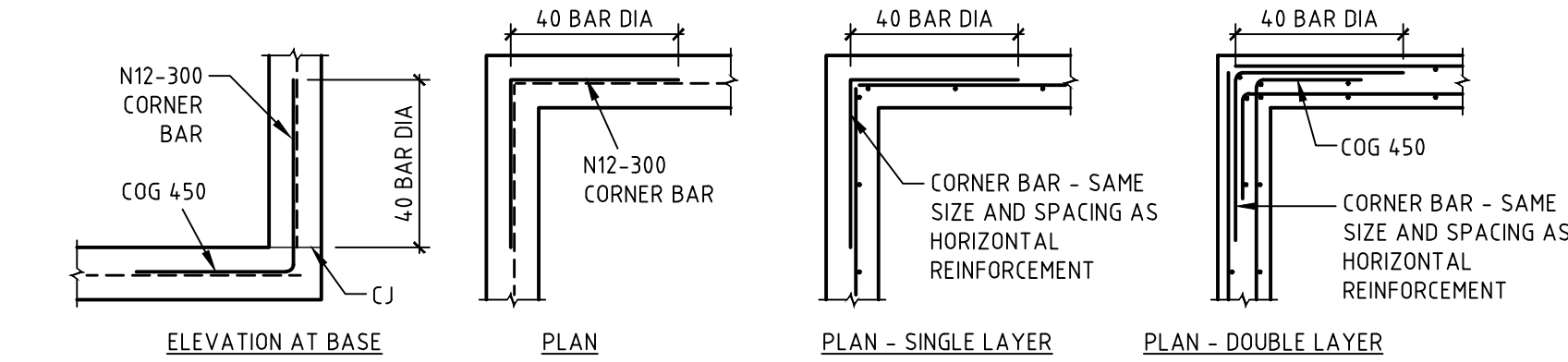
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SCALE NOTED				
JOB No.	DRAWN	CHECKED	DATE	
1097901C	PA	-	-	
DRAWING No.				REVISION
C00-60				08

A1 841 x 594
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Plotted: 14.08.20 at 10:23 AM



SURFACE INLET/JUNCTION PIT DETAIL
SCALE 1:20

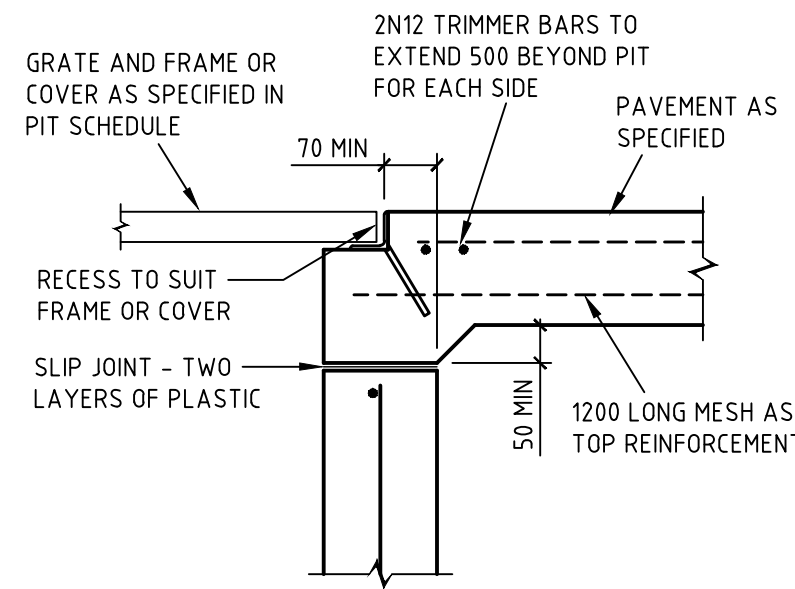
- STORMWATER PIT NOTES**
1. CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH (F_c) OF 25 MPa AT 28 DAYS.
 2. REINFORCEMENT NOT REQUIRED IF DEPTH OF PIT IS LESS THAN 1000mm. PITS GREATER THAN 3000mm DEEP TO HAVE WALL AND BASE 200mm THICK REINFORCED WITH N12-250 EACH WAY EACH FACE WITH CONCRETE STRENGTH F_c = 40 MPa.
 3. PROVIDE STEP IRONS AT MAX 350mm CTRS IF DEPTH OF PIT EXCEEDS 1200mm.
 4. IF REINFORCING FABRIC IS TO BE USED REFER TO WALL AND CORNER DETAILS.
 5. PRECAST PITS ARE TO GENERALLY COMPLY WITH THESE DETAILS.
 6. PRECAST PIT MAY BE USED SUBJECT TO ENGINEERS APPROVAL.
 7. ALL PITS TO BE LOCKABLE.
 8. FINAL INTERNAL PIT DIMENSIONS ARE TO COMPLY WITH AS 3500.



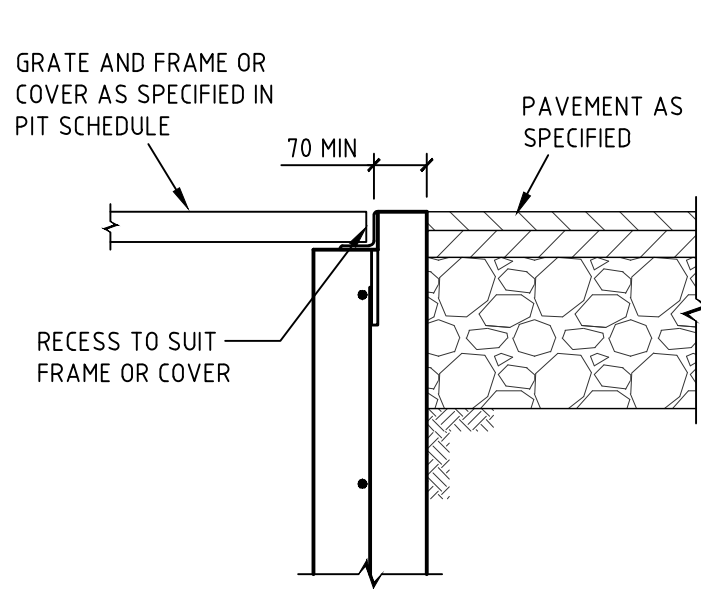
FABRIC REINFORCEMENT

PIT CORNER DETAILS
SCALE 1:20

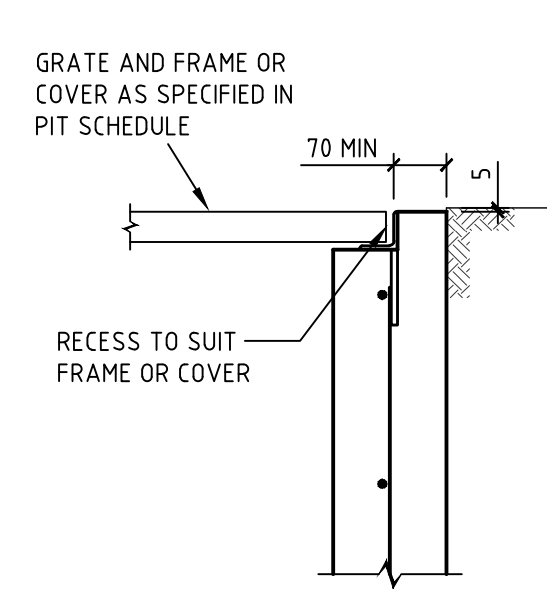
NOTE: DESIGNER TO VERIFY EXTENT OF DETAILING



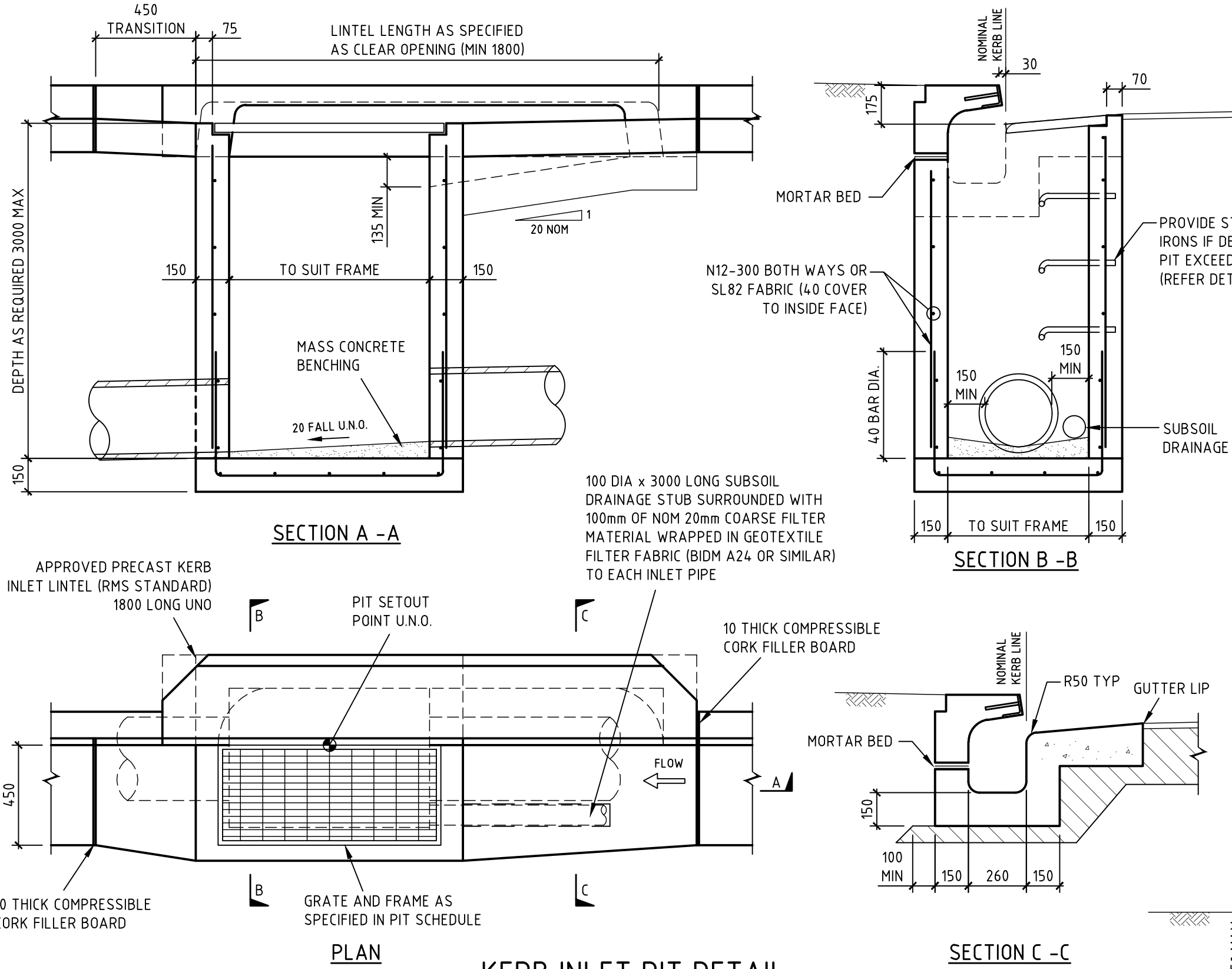
DETAIL A
SCALE 1:10



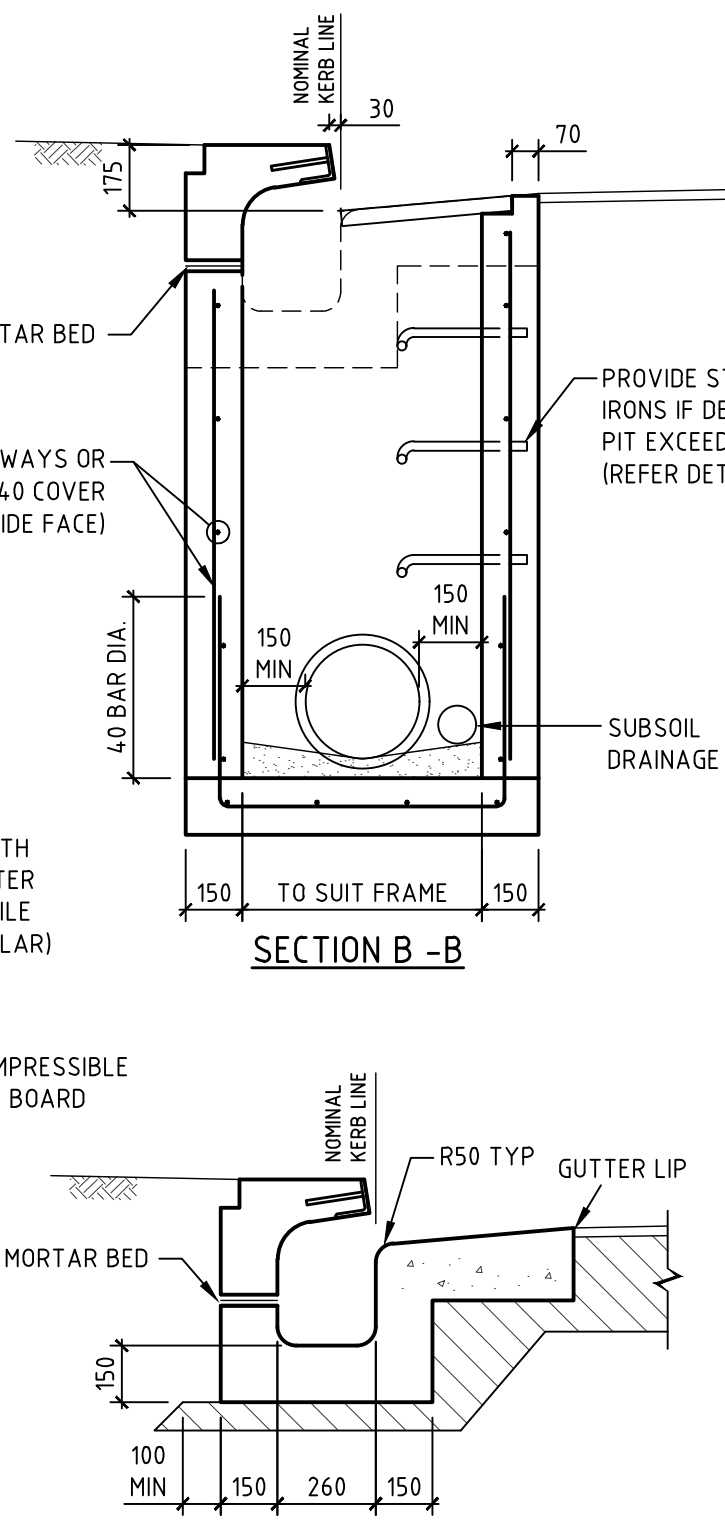
DETAIL B
SCALE 1:10



DETAIL C
SCALE 1:10

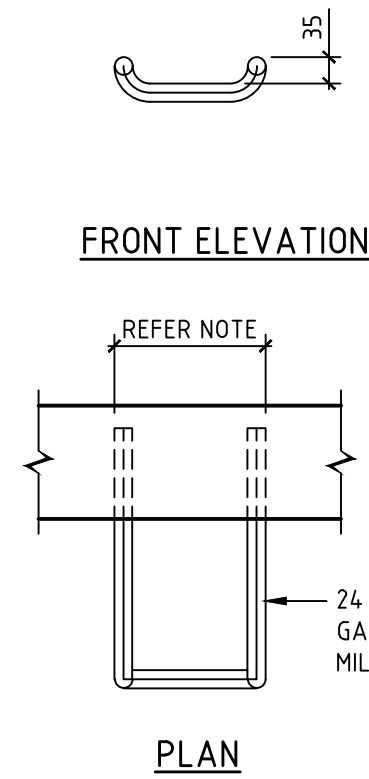


KERB INLET PIT DETAIL
SCALE 1:20



SECTION C - C

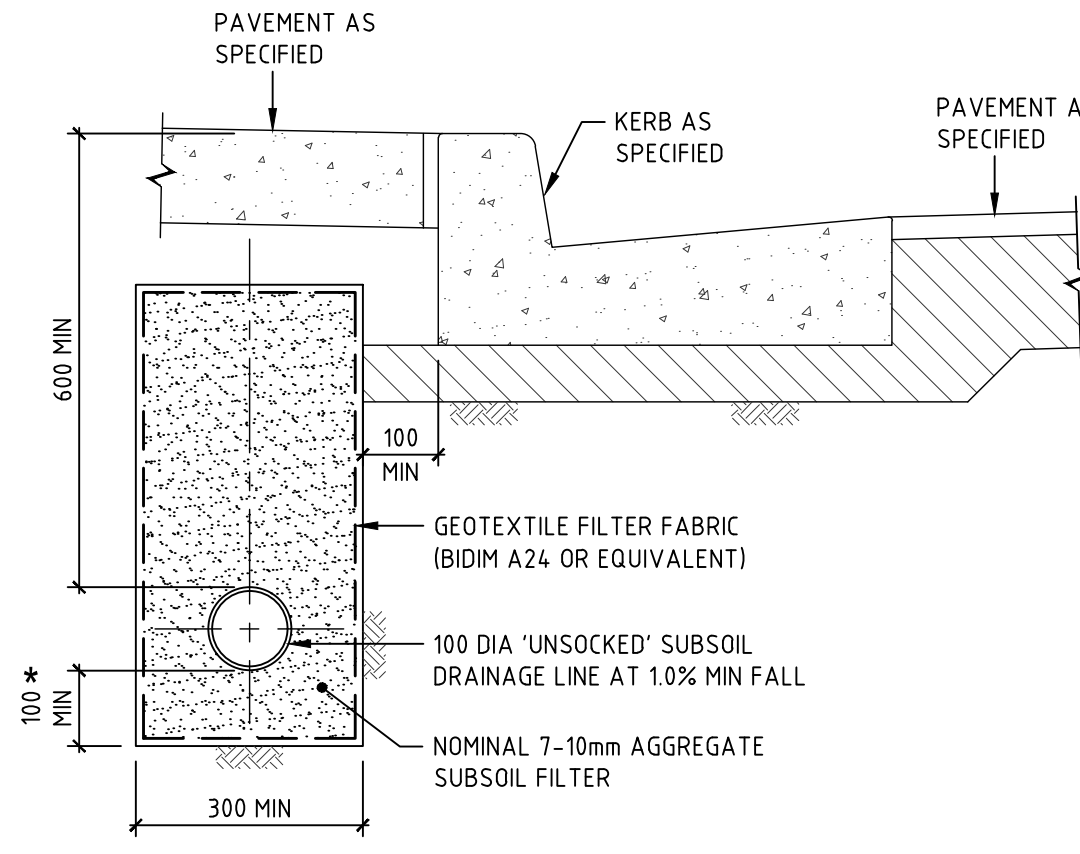
DRILL 30mm DIA HOLE x 120mm DEEP AND EPOXY INTO WALL WITH EPOXY MORTAR EQUAL TO EPIREZ 633 (NON SAGE) - IN PRECAST PITS, DEPTH OF EMBEDMENT IS TO BE IN ACCORDANCE WITH PIT MANUFACTURER'S DETAILS



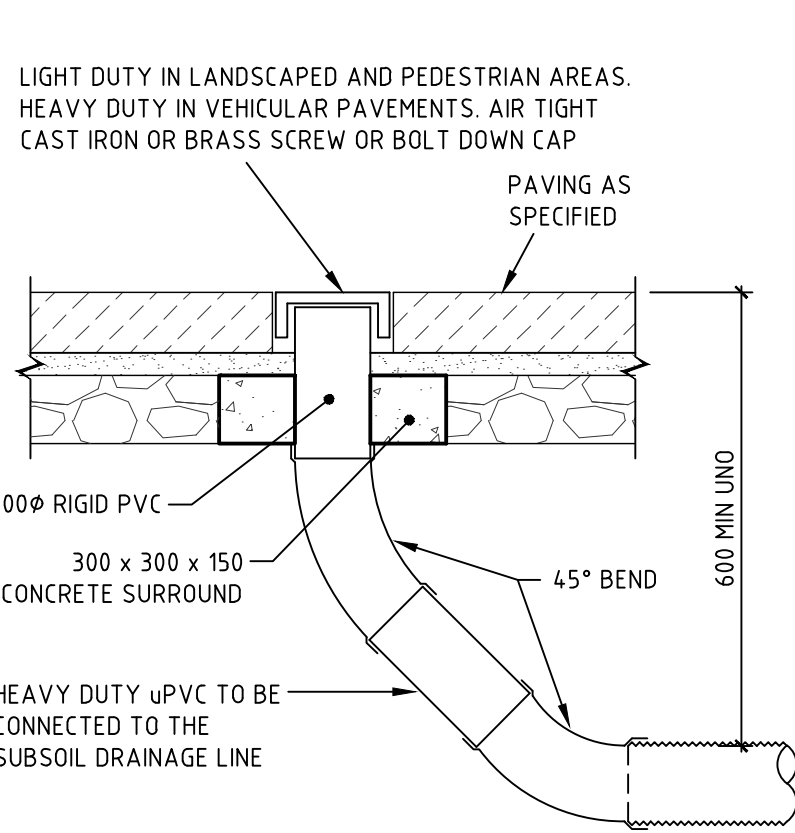
FRONT ELEVATION SIDE ELEVATION

- NOTES**
1. WHEN POSITIONED IN STRAIGHT ALIGNMENT, STEP TO BE 400 WIDE.
 2. STAGGERED STEPS TO BE 200 WIDE, STEPS TO BE STAGGERED 200 CENTRE TO CENTRE FOR ALTERNATIVE STEPS.
 3. SPACING OF STEPS TO BE UNIFORM TO WITHIN ±8mm IN EACH PIT.

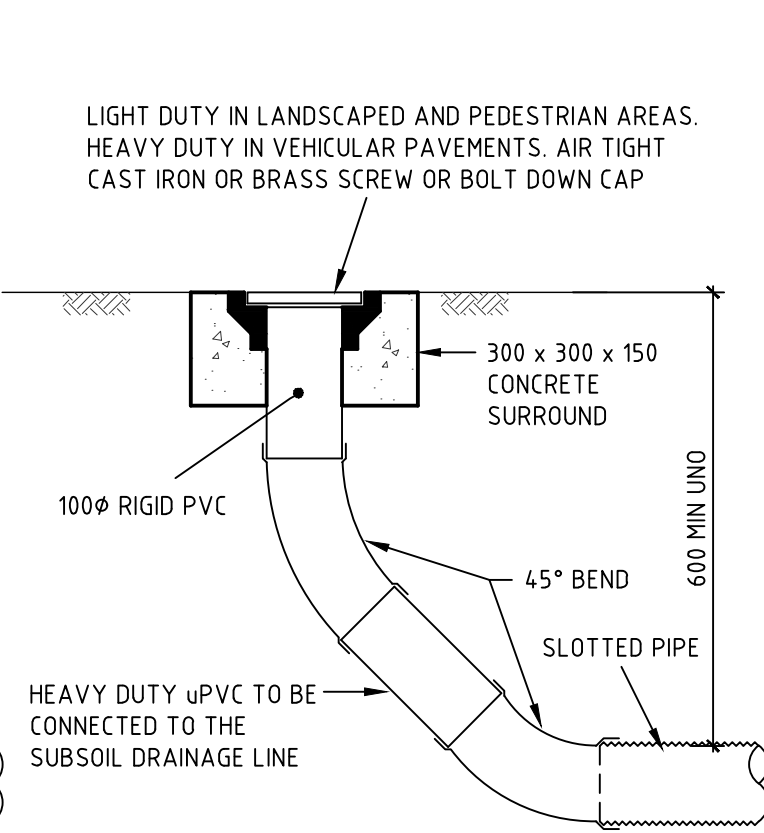
PIT ACCESS STEP DETAIL
SCALE 1:10



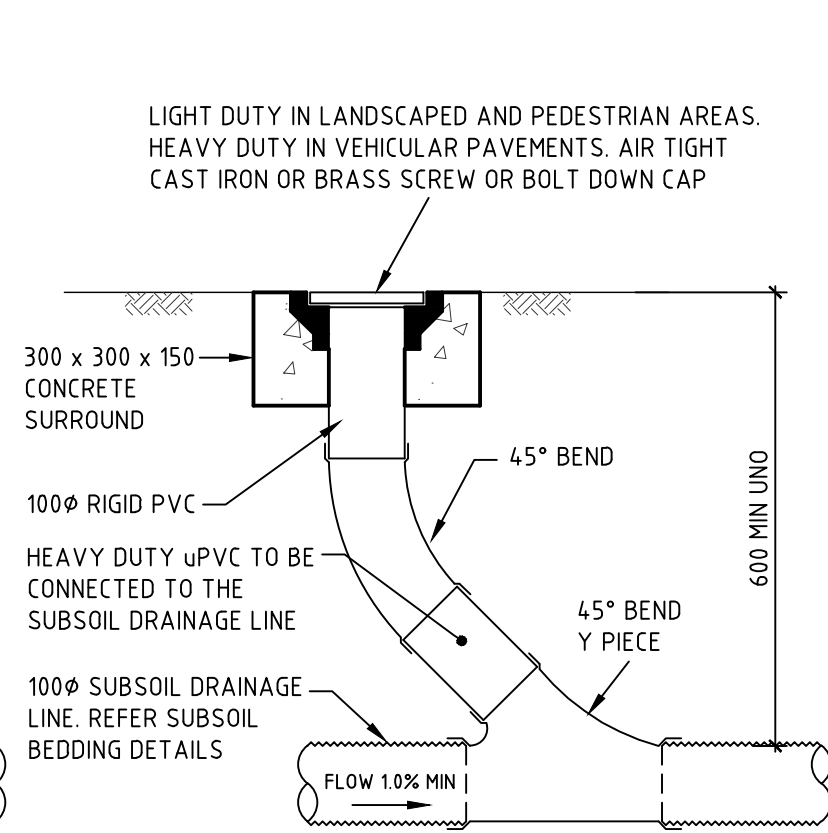
SUBSOIL BEHIND KERB
SCALE 1:10



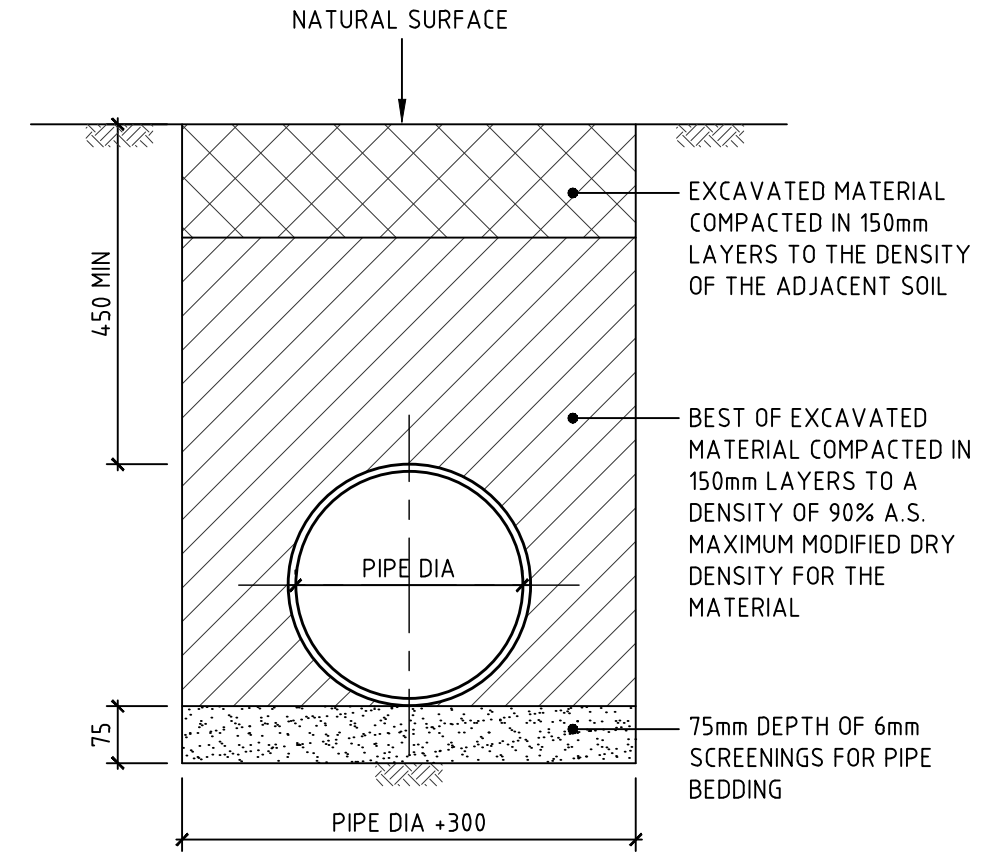
FLUSHOUT RISER (FOR) IN PAVING BRICKS
SCALE 1:10



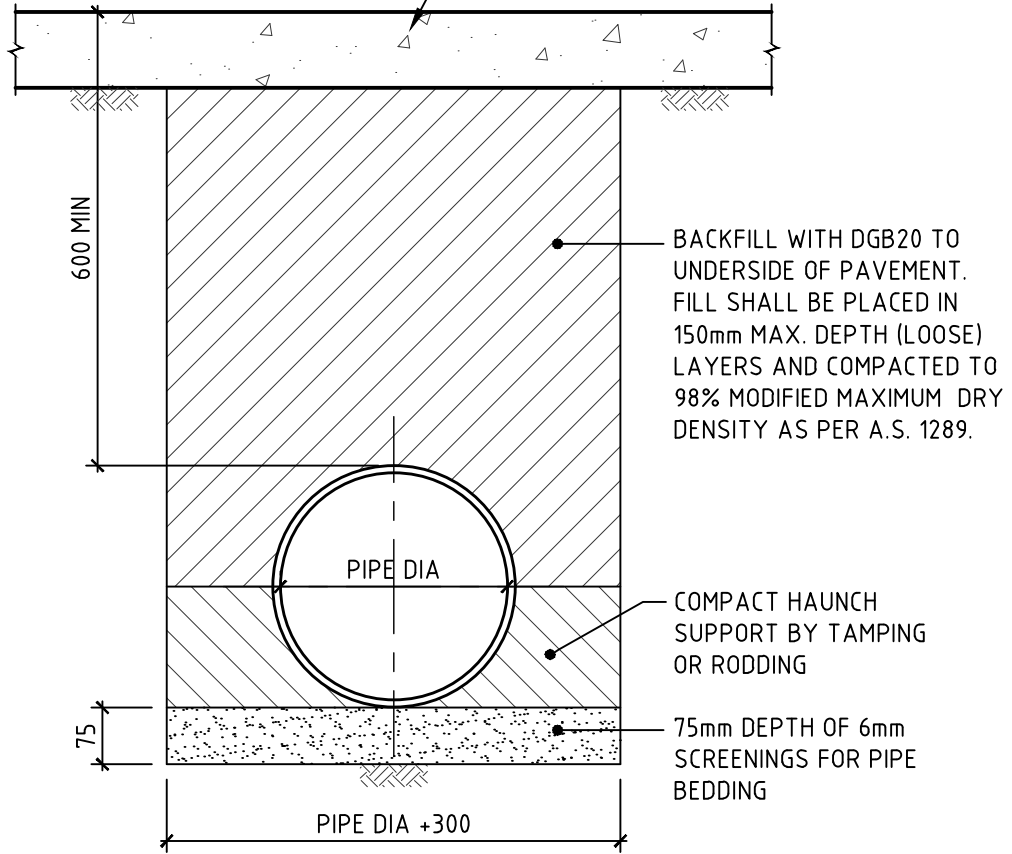
FLUSHOUT RISER (FOR)
SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS WITHIN DRAINAGE LAYER ONLY



INTERMEDIATE RISER
SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED

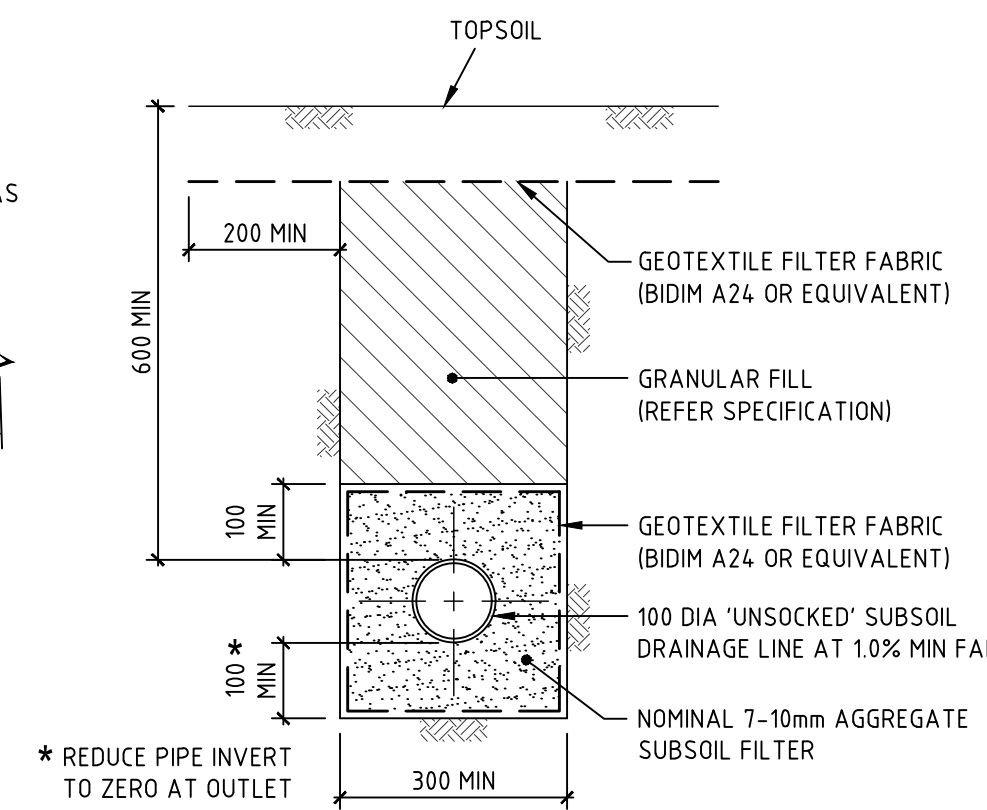


PIPE LAYING DETAIL (ALL PIPES) UNDER LANDSCAPED AREAS
SCALE 1:10

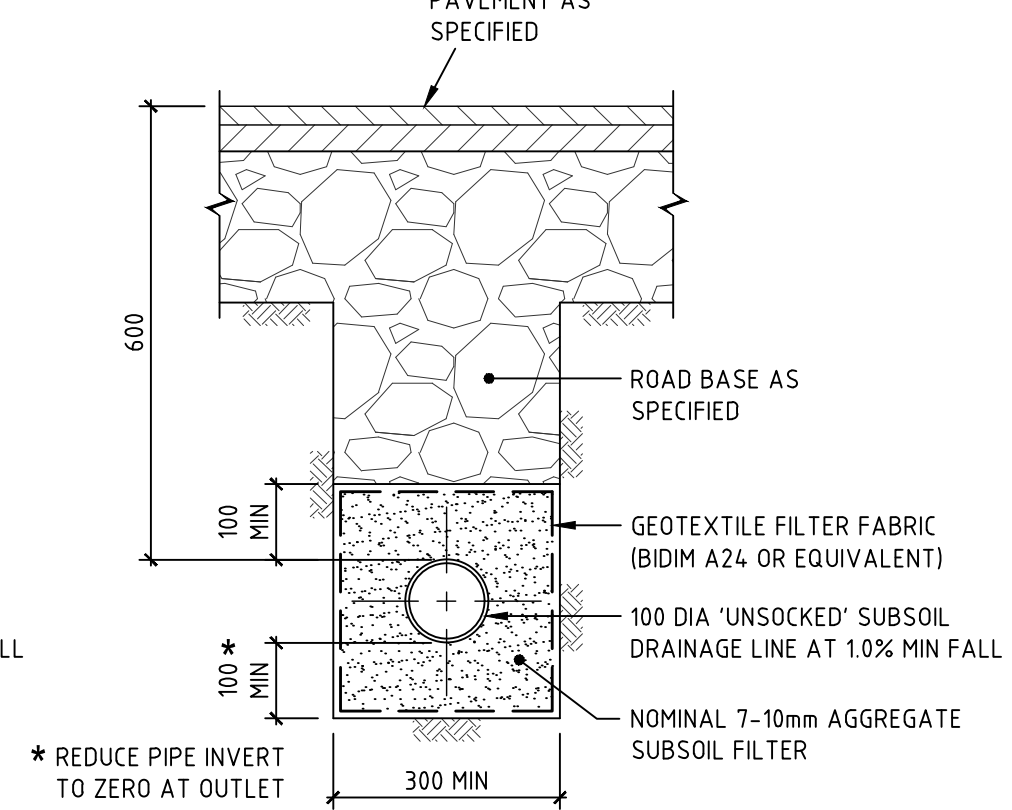


PIPE LAYING DETAILS UNDER ALL PAVEMENTS
SCALE 1:10

NOTE: AVOID RUNNING CONSTRUCTION EQUIPMENT OVER THE PIPES UNTIL BACKFILL MATERIAL IS 300mm MIN. ABOVE CROWN OF PIPE.



SUBSOIL IN LANDSCAPED AREAS
SCALE 1:10



SUBSOIL IN PAVED AREAS
SCALE 1:10

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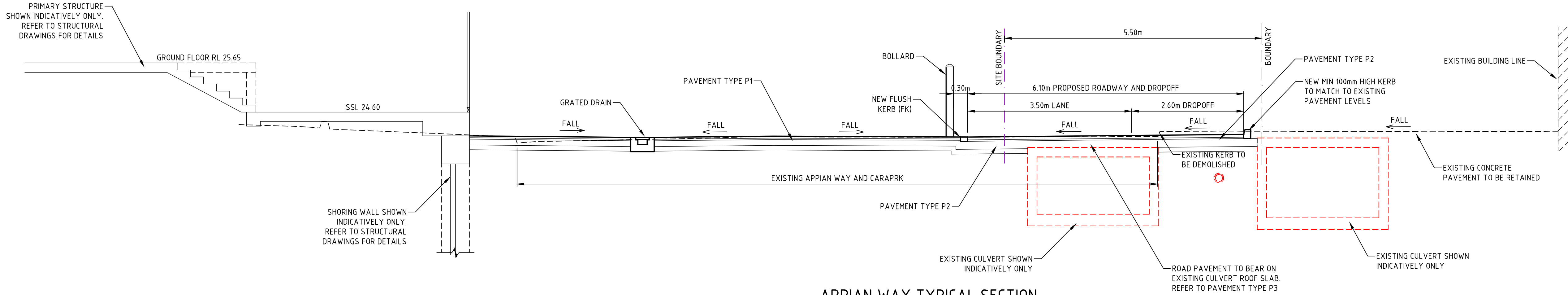
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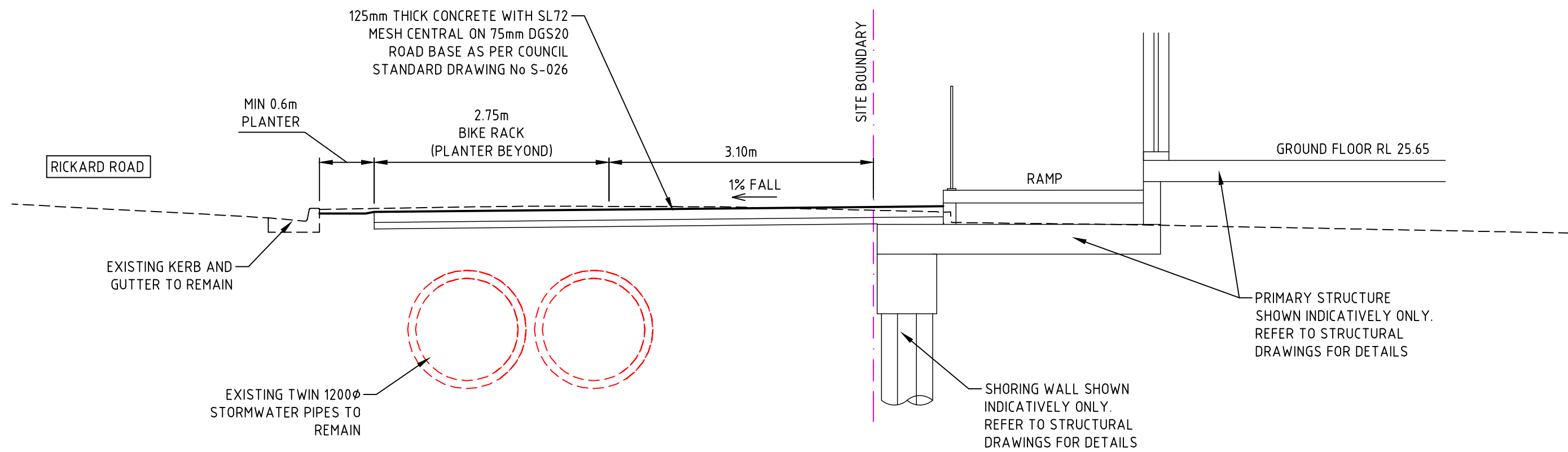
DRAWING TITLE
SITEWORKS AND STORMWATER DETAILS SHEET 2

SSDA SUBMISSION				NORTH
SCALE				NOTED
JOB No.	DRAWN	CHECKED	DATE	
1097901C	PA	-	-	
DRAWING No.	REVISION			
C00-61				08



APPIAN WAY TYPICAL SECTION

SECTION 1
SCALE 1:50
C00-43



RICKARD ROAD FRONTAGE TYPICAL SECTION

SECTION 2
SCALE 1:50
C00-43

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04 SSDA SUBMISSION 14.08.20

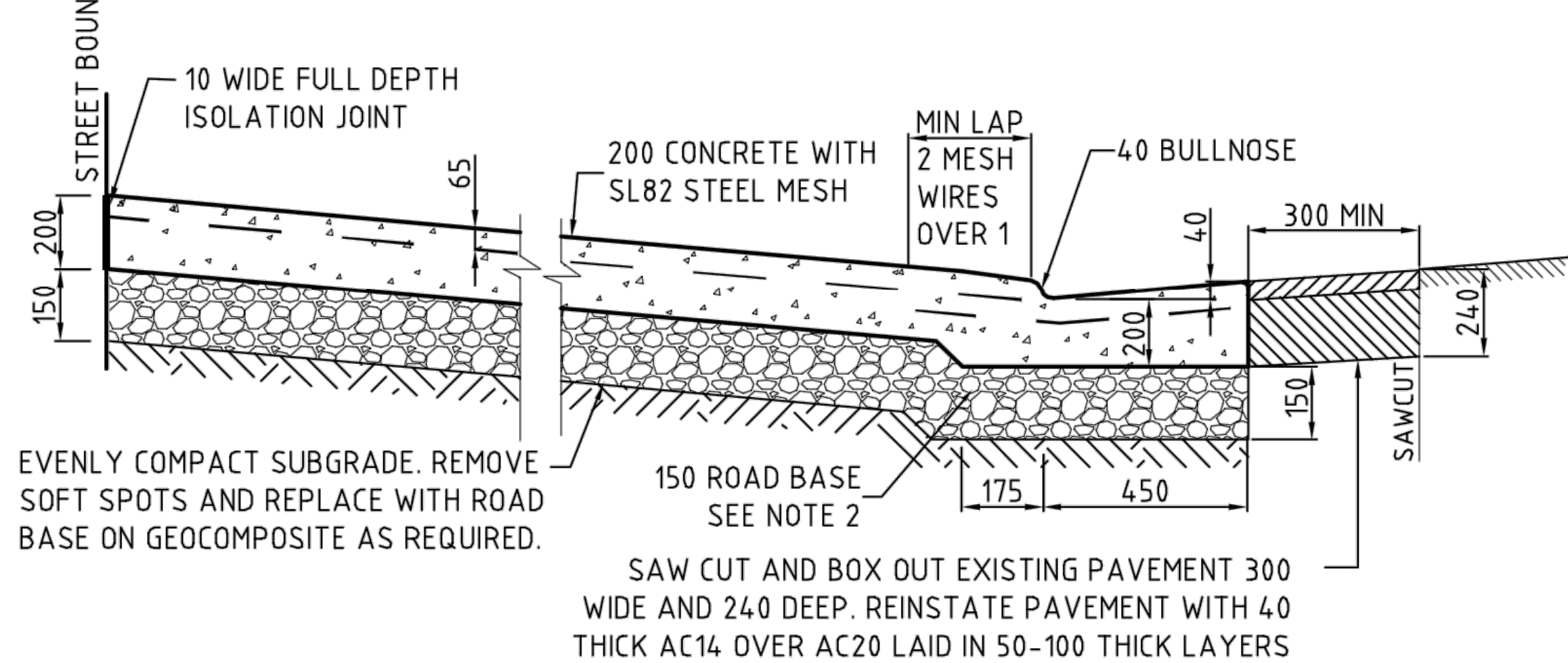
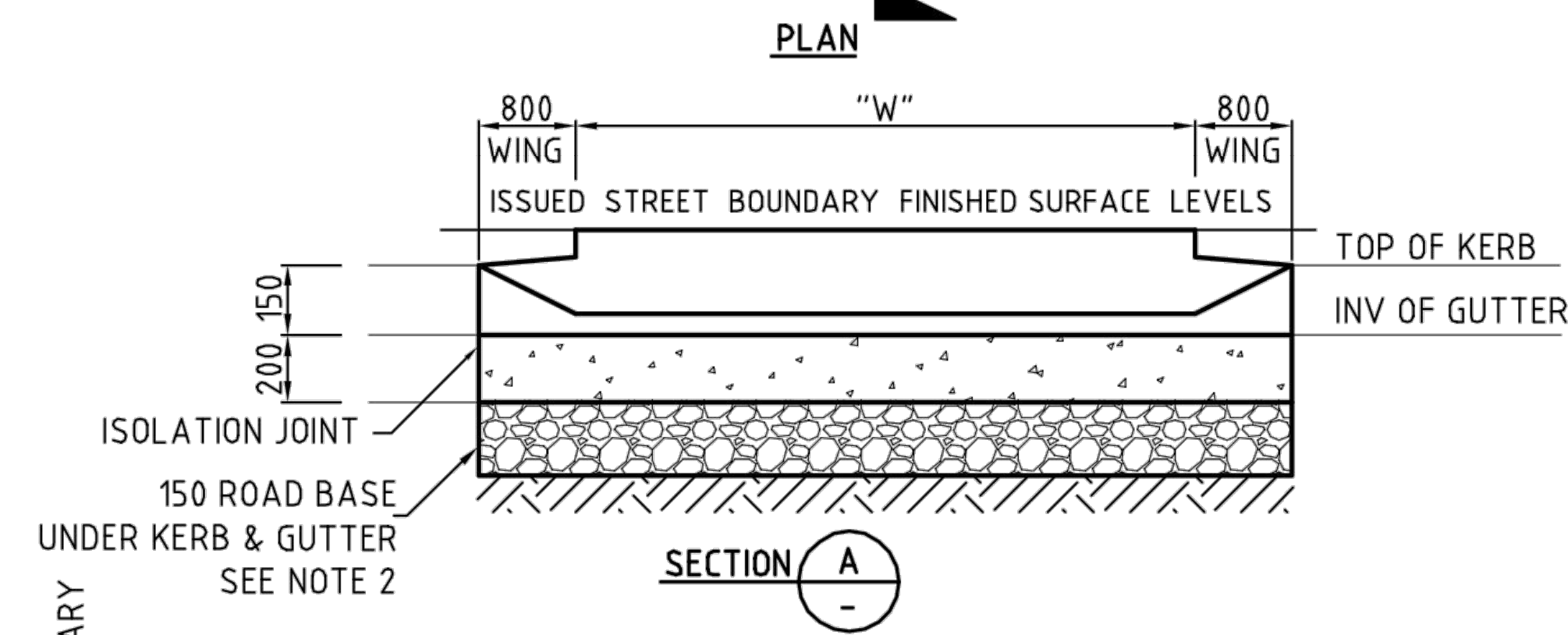
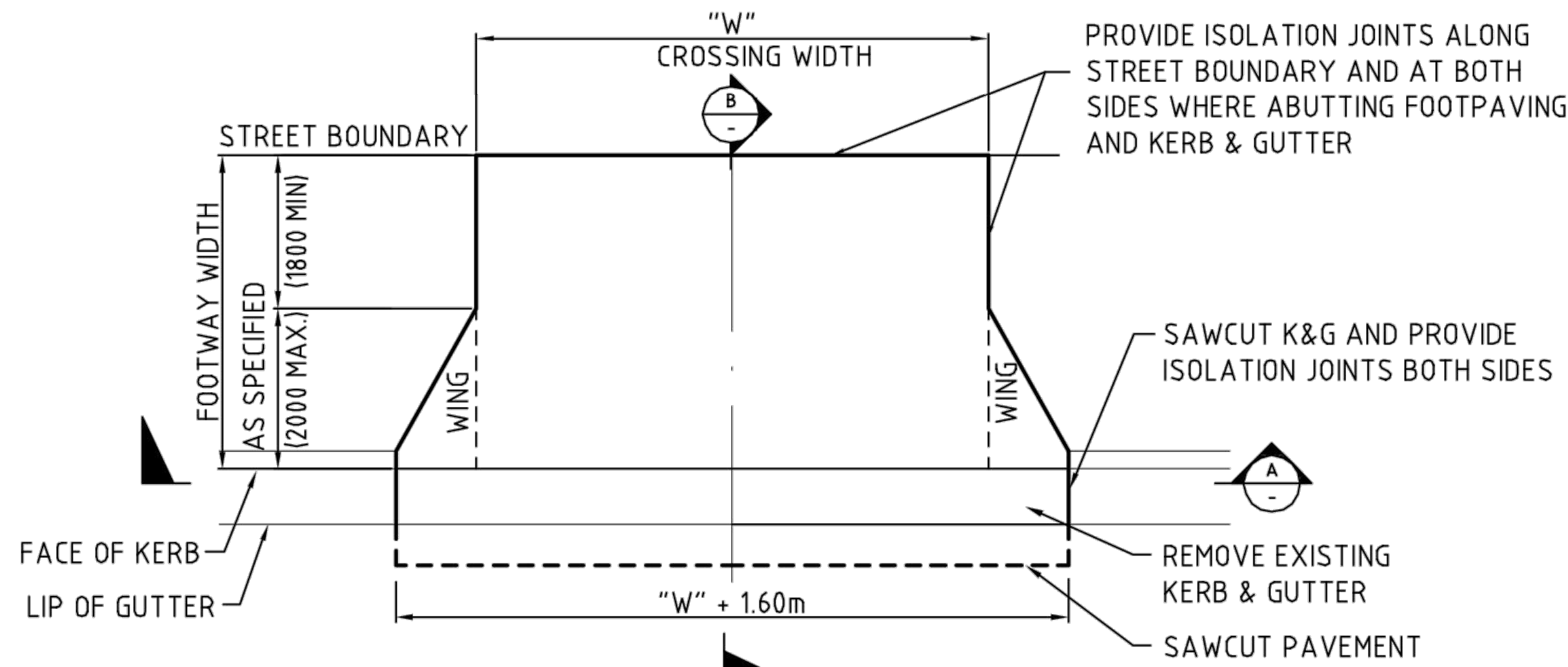
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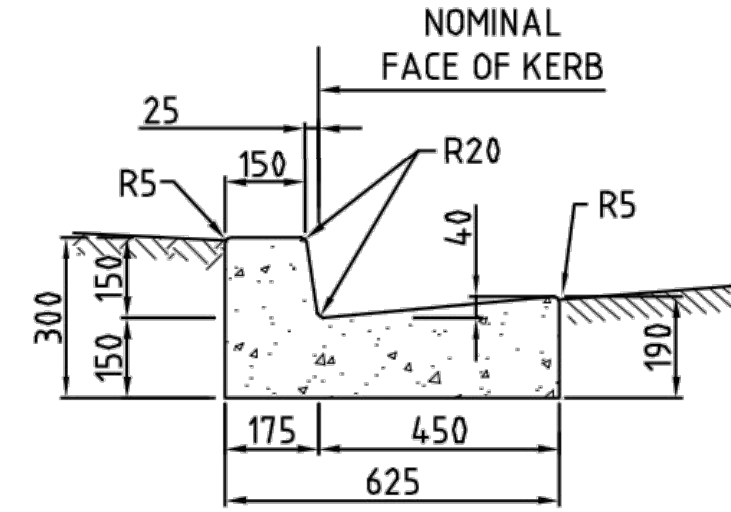
PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD
DRAWING TITLE
TYPICAL SITE SECTIONS

NORTH
SCALE
1:50 @ A1
SSDA SUBMISSION
JOB No. 1097901C DRAWN JF CHECKED - DATE -
DRAWING No. C00-62 REVISION 04



REFER TO ATTACHED 'DESIGN LEVELS' PLAN FOR LEVELS AND DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE



STANDARD KERB & GUTTER

NOTES :

- VEHICULAR FOOTWAY CROSSING LEVELS AND DIMENSIONS TO BE IN ACCORDANCE WITH DETAILED DRAWING ISSUED BY COUNCIL
- ROAD BASE MATERIAL IS TO BE CRUSHED ROCK GRADED TO DGB20, CRUSHED CONCRETE GRADED TO DGS20, OR GRADED RECYCLED ASPHALT WITH MAX. PARTICLE SIZE OF 20.
- CONCRETE: STRENGTH GRADE N32, 20mm MAX SIZE AGGREGATE, IN ACCORDANCE WITH AS3600
- RMS 40MPa SP40H CONCRETE MIX (WITH <0.8% CaCl₂) CAN BE USED TO ALLOW TRAFFIC AFTER 12 HOURS. CaCl₂ IS CORROSIVE AND ALL STEEL MESH AND DOWELS MUST BE GALVANISED.
- ASPHALT HOTMIX TO BE SUPPLIED AND COMPACTED AT A MINIMUM TEMPERATURE OF 140°C IN ACCORDANCE WITH AS2150. (COLD MIX NOT PERMITTED).
- ISOLATION JOINTS SHALL CONSIST OF FULL DEPTH 10MM THICK COMPRESSIBLE FILLER. EITHER BITUMEN IMPREGNATED FIBREBOARD OR CLOSED CELL POLYETHYLENE FOAM SEALED WITH 10x10 POLYURETHANE SEALANT. ISOLATION JOINTS SHALL BE INSTALLED WHERE THE CONCRETE SLAB ABUTS HARD SURFACES.
- PAVEMENT ADJOINING KERB AND GUTTER IS TO BE RECONSTRUCTED 300mm WIDE AS DETAILED. COUNCILS SUPERVISOR MAY ALLOW THE EXISTING PAVEMENT TO BE RETAINED IF IN GOOD CONDITION. ALTERNATE AC LAYERING MAY BE APPROVED.
- PROVIDE 65 TOP COVER TO STEEL MESH REINFORCEMENT AND 75 COVER AT ENDS. STEEL MESH IS TO BE PLACED ON PLASTIC BAR CHAIRS IN A REGULAR GRID NOT EXCEEDING 1.0m SPACING.
- POLYETHYLENE SHEETING IS TO BE PLACED UNDER THE CONCRETE WHERE THE VFC IS CONTAINED ON BOTH SIDES BY FULL WIDTH PAVING.
- ALL PERIMETER EDGES TO BE ROUNDED TO 20 RADIUS USING AN EDGING TOOL.
- ADJOINING EXISTING CONCRETE FOOTPAVING IS TO BE RECONSTRUCTED TO MATCH THE VFC AT A GRADE GENERALLY NOT EXCEEDING 1 in 14 AS REQUIRED BY THE COUNCIL SUPERVISOR.
- ADJOINING NATURAL FOOTWAY IS TO BE SHAPED TO GRADE EVENLY TO THE VFC AS REQUIRED BY THE COUNCIL SUPERVISOR. DISTURBED AREAS TO BE TURFED.
- THIS PLAN APPLIES FOR HEAVY TRUCK MOVEMENTS OF LESS THAN 25 PER DAY.
- THIS PLAN DOES NOT APPLY FOR FOOTWAY WIDTHS LESS THAN 2800.



CITY OF CANTERBURY BANKSTOWN

STANDARD HEAVY DUTY
VEHICULAR FOOTWAY CROSSING (VFC)

PLAN VIEW, SECTIONS AND GENERAL NOTES

STD DWG N°

S-009

Sheet N°: 1 of 1
Revision: 1/05/2017

File Name: S-009.dwg

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REV. DETAILS
01 FOR SEARS 19.07.19
02 FOR SEARS 23.08.19
03 SSDA SUBMISSION 31.07.20
04 SSDA SUBMISSION 14.08.20

DATE
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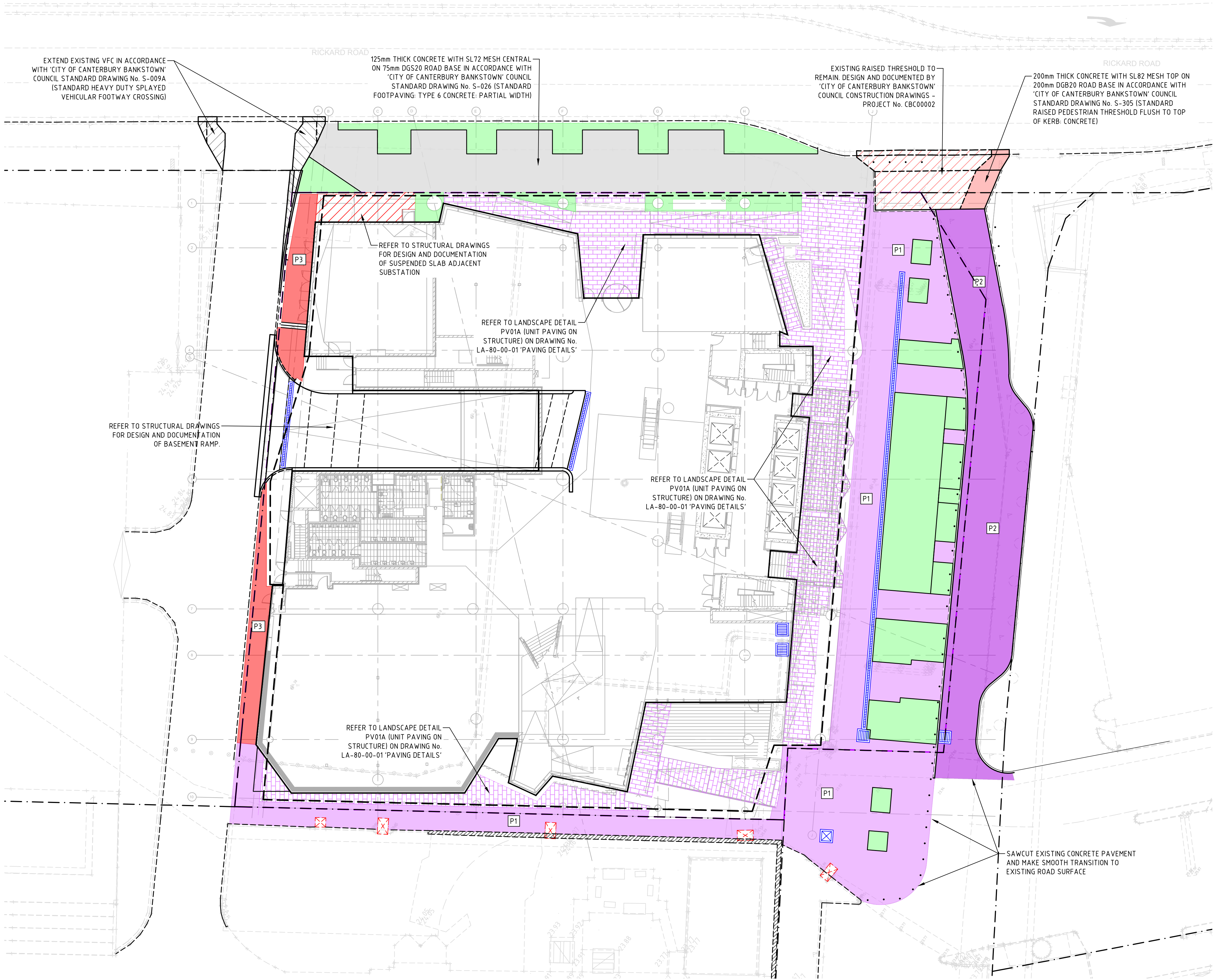
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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION OF 375 CHAPEL ROAD
DRAWING TITLE
**COUNCIL STANDARD
LAYBACK**

NORTH
SCALE
NOTED
SSDA SUBMISSION
JOB No. 1097901C DRAWN PA CHECKED - DATE -
DRAWING No. C00-65 REVISION
04

PAVEMENT LEGEND

- PAVEMENT TYPE P1
LIGHT DUTY UNIT PAVERS
- PAVEMENT TYPE P2
HEAVY DUTY UNIT PAVERS
- PAVEMENT TYPE P3
CONCRETE FOOTPATH PAVEMENT
- REFER TO STRUCTURAL
DRAWINGS FOR DESIGN AND
DOCUMENTATION OF SUSPENDED
SLAB ADJACENT SUBSTATION
- 125mm THICK CONCRETE WITH SL72
MESH CENTRAL ON 75mm DGS20 ROAD
BASE IN ACCORDANCE WITH 'CITY OF
CANTERBURY BANKSTOWN' COUNCIL
STANDARD DRAWING No. S-026
(STANDARD FOOTPAVING: TYPE 6
CONCRETE: PARTIAL WIDTH)
- REFER TO LANDSCAPE DETAIL
PV01A (UNIT PAVING ON
STRUCTURE) ON DRAWING No.
LA-80-00-01 'PAVING DETAILS'
- VEHICULAR FOOTWAY CROSSING (VFC)
EXTENSION IN ACCORDANCE WITH 'CITY
OF CANTERBURY BANKSTOWN' COUNCIL
STANDARD DRAWING No. S-009A
(STANDARD HEAVY DUTY SPLAYED
VEHICULAR FOOTWAY CROSSING)
- EXISTING RAISED THRESHOLD TO
REMAIN. DESIGN AND DOCUMENTED BY
'CITY OF CANTERBURY BANKSTOWN'
COUNCIL CONSTRUCTION DRAWINGS -
PROJECT No. CBC00002
- 200mm THICK CONCRETE WITH SL82 MESH
TOP ON 200mm DGB20 ROAD BASE IN
ACCORDANCE WITH 'CITY OF CANTERBURY
BANKSTOWN' COUNCIL STANDARD
DRAWING No. S-305 (STANDARD RAISED
PEDESTRIAN THRESHOLD FLUSH TO TOP
OF KERB: CONCRETE)
- LANDSCAPE (REFER TO LANDSCAPE
CONSULTANTS DRAWINGS AND
SPECIFICATIONS)



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REV. DETAILS

01	PRELIMINARY DRAFT ISSUE	25.02.19
02	SCHEMATIC DESIGN	12.03.19
03	FOR SEARS	21.06.19
04	ISSUED FOR DETAILED DESIGN	28.06.19
05	FOR SEARS	19.07.19
06	FOR SEARS	23.08.19
07	SSDA SUBMISSION	31.07.20
08	SSDA SUBMISSION	14.08.20

DATE

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PROJECT

**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE

OVERALL PAVEMENT PLAN

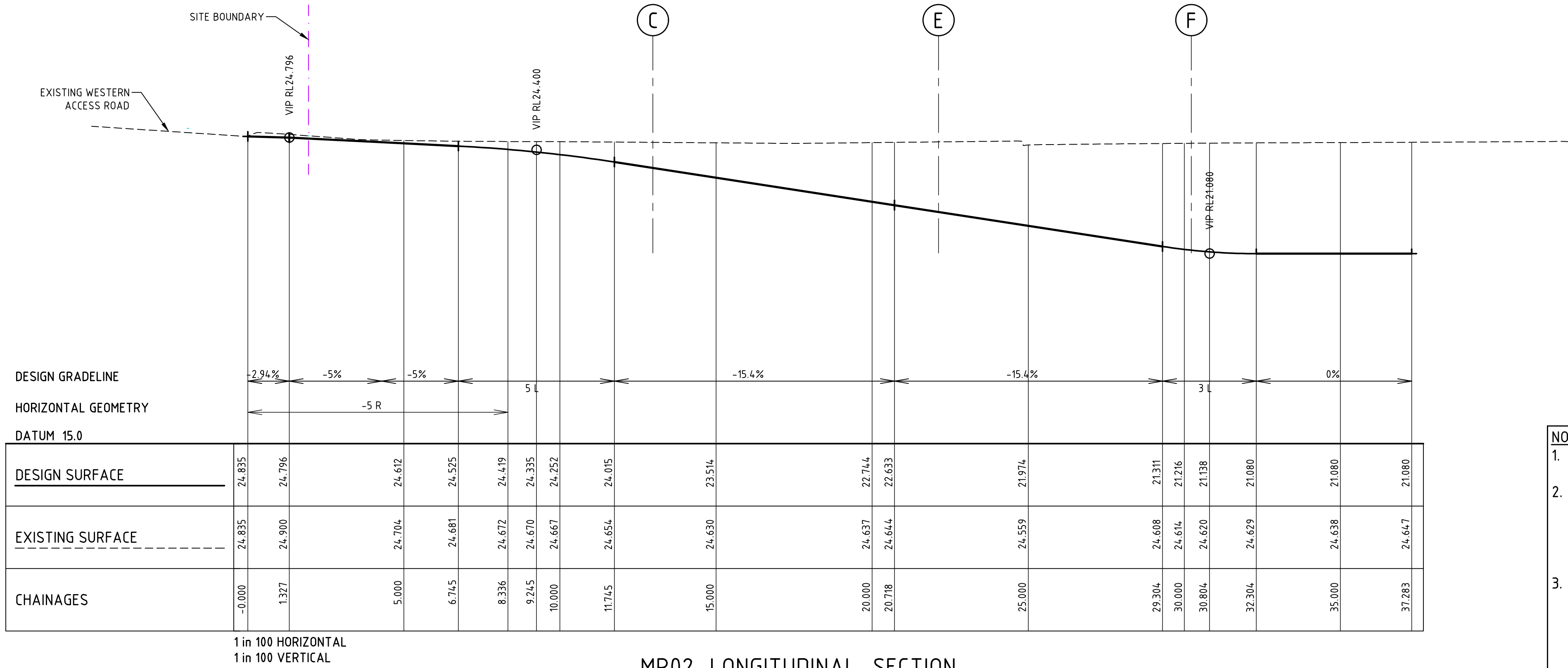
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SSDA SUBMISSION

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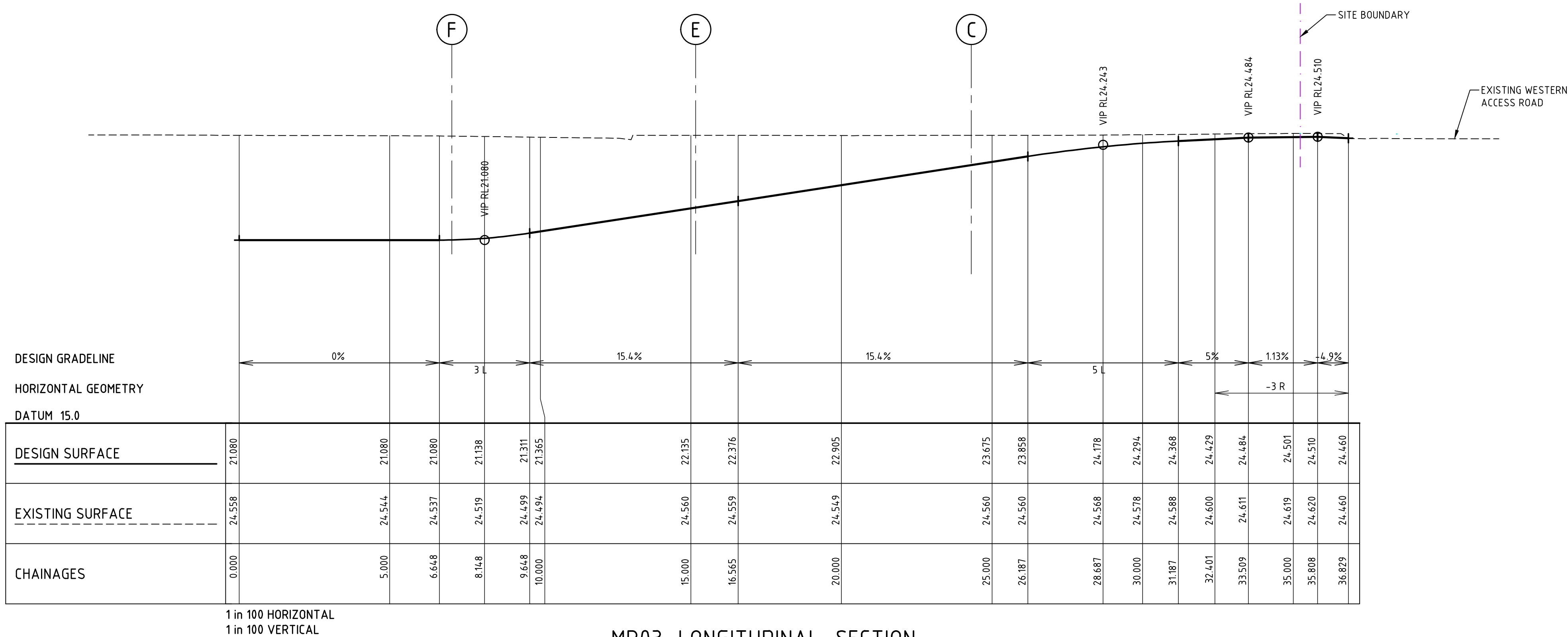
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DRAWING No. **C00-70** REVISION **08**



MR02 LONGITUDINAL SECTION

- NOTES
- REFER TO DRAWING C00-81 FOR KERB SETOUTS
 - EXISTING GROUND SURFACE INTERPOLATED FROM SITE SURVEY SUPPLIED BY 'RPS AUSTRALIA EAST' PTY LTD JOB No. PR140676 ISSUE D DATED 21.07.20 DRAWING No. PR140676-DS-001D
 - RAMP DESIGN HAS BEEN CHECKED WITH GROUND CLEARANCE TEMPLATES FOR A MEDIUM RIGID VEHICLE IN-LIEU OF THE MAXIMUM CHANGE OF GRADE SPECIFIED IN AS2890.2 TABLE 3.2. REFER TO TRAFFIC CONSULTANTS DOCUMENT SUPPLIED BY 'ARUP' JOB No. 263785-00 DRAWING No. SKT001 REV A DATED 29/07/20.



MR03 LONGITUDINAL SECTION

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REV. DETAILS
01 ISSUED FOR DETAILED DESIGN 28.06.19
02 FOR SEARS 19.07.19
03 FOR SEARS 23.08.19
04 SSDA SUBMISSION 31.07.20
05 SSDA SUBMISSION 14.08.20

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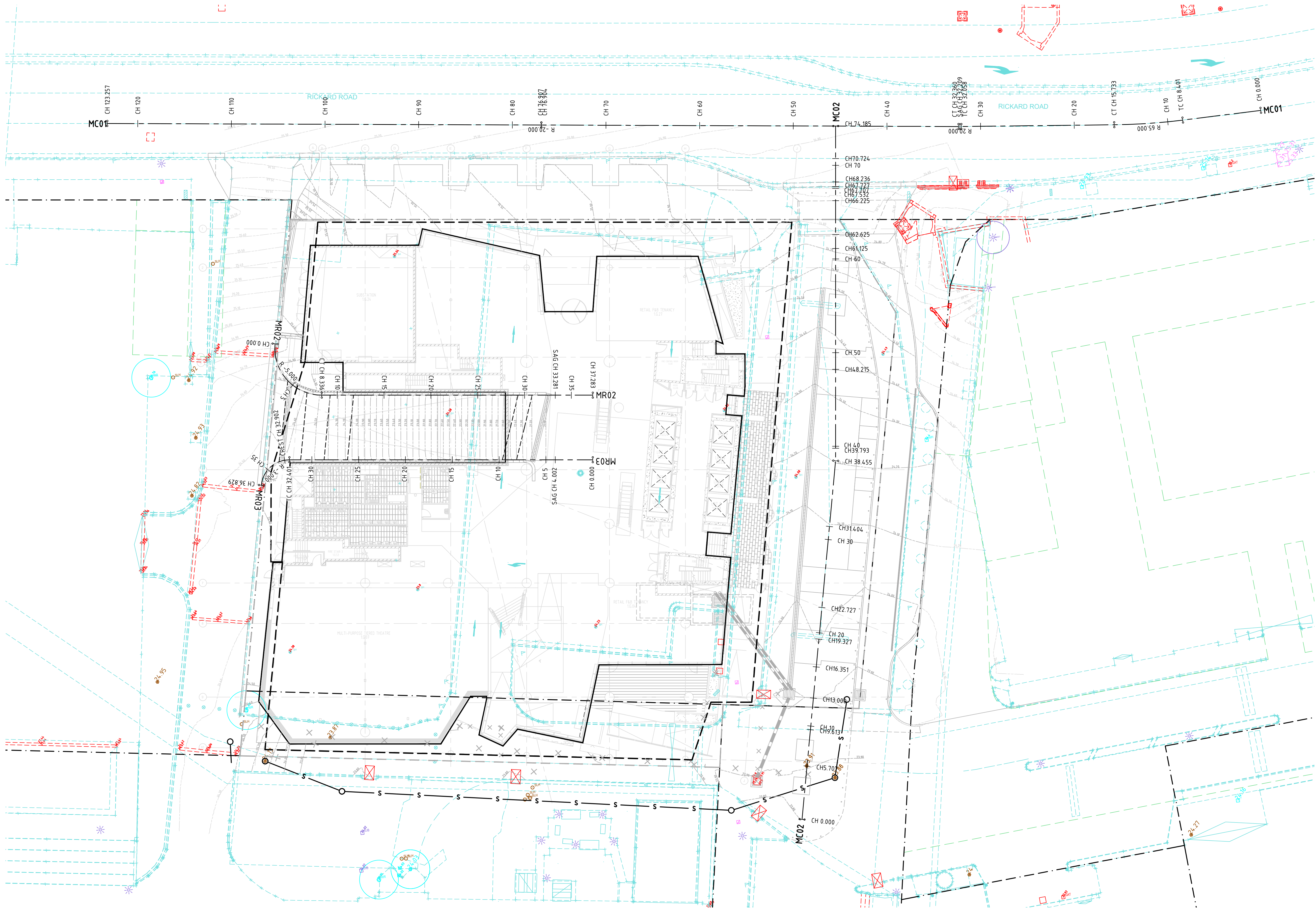
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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE
**BASEMENT RAMP
LONGITUDINAL SECTIONS**

NORTH
SCALE
1:100 @ A1
SSDA SUBMISSION
JOB No. 1097901C DRAWN JF CHECKED - DATE -
DRAWING No. REVISION
C00-80 05



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REV.	DETAILS	DATE
01	DRAFT SSDA	22.07.20
02	SSDA SUBMISSION	31.07.20
03	SSDA SUBMISSION	14.08.20

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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD
DRAWING TITLE
ROAD SETOUT PLAN

SSDA SUBMISSION

JOB No. 1097901C DRAWN JF CHECKED -

DRAWING No.
C00-81



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DATE -

REVISION

03

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REV.	DETAILS	DATE
01	DRAFT SSDA	22.07.20
02	SSDA SUBMISSION	31.07.20
03	SSDA SUBMISSION	14.08.20

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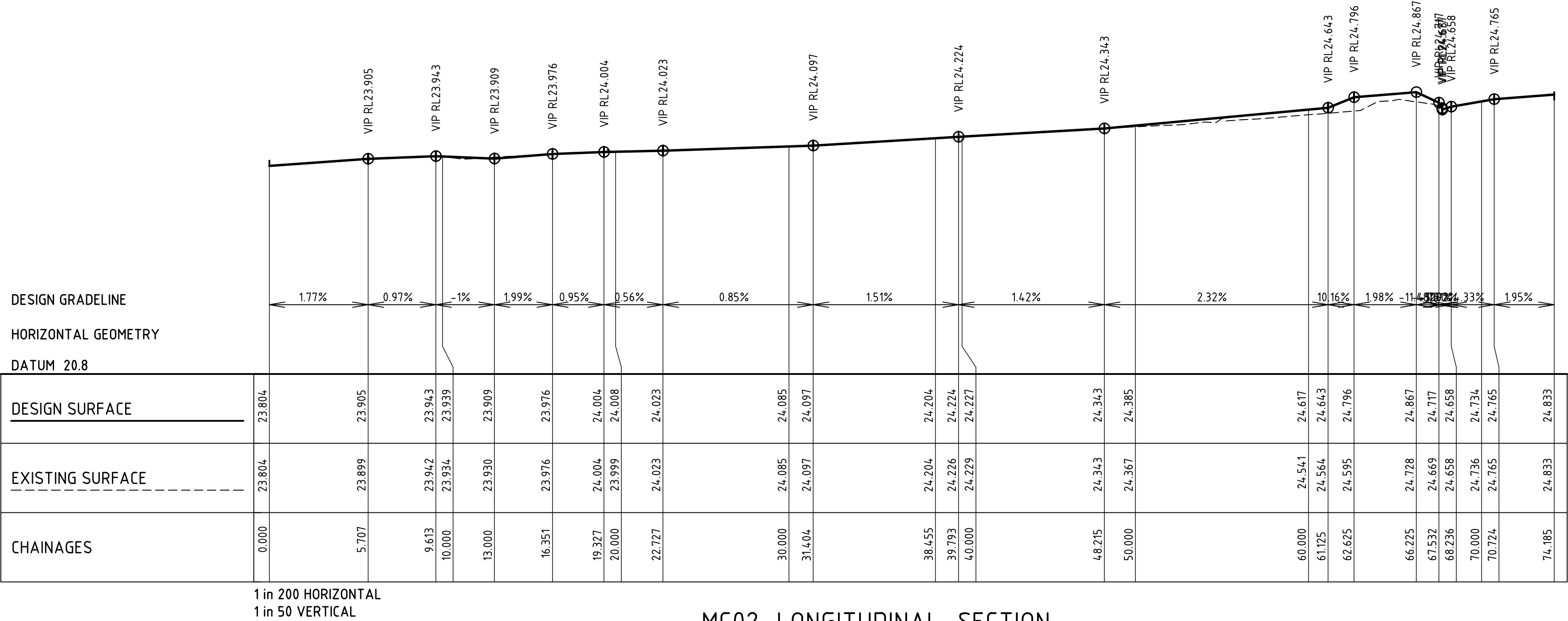
PROJECT
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74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD
DRAWING TITLE
ROAD LONGITUDINAL SECTIONS

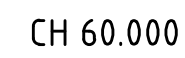
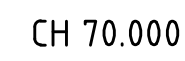
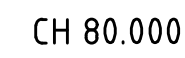
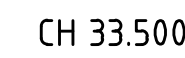
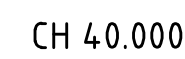
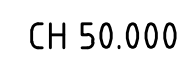
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JOB No.	DRAWN	CHECKED	DATE
1097901C	PA	-	-

DRAWING No. **C00-82** REVISION **03**





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A1 841 x 594
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Plotted: 14.08.20 at 10:08 AM

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REV.	DETAILS	DATE
01	DRAFT SSDA	22.07.20
02	SSDA SUBMISSION	31.07.20
03	SSDA SUBMISSION	14.08.20

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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD
DRAWING TITLE
**ROAD MC01 CROSS SECTIONS
SHEET 2**

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NORTH
SCALE
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JOB No.	DRAWN	CHECKED	DATE
1097901C	PA	-	-

DRAWING No.	REVISION
C00-84	03

EASTING 318367.932
NORTHING 6245567.751
DATUM RL 21.000

DESIGN LEVEL									
EXISTING SURFACE LEVEL									
DESIGN OFFSET									

ROAD MC01

CH 110.000

EASTING 318377.846
NORTHING 6245566.439
DATUM RL 21.000

DESIGN LEVEL									
EXISTING SURFACE LEVEL									
DESIGN OFFSET									

ROAD MC01

CH 100.000

EASTING 318387.759
NORTHING 6245565.128
DATUM RL 21.000

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DESIGN OFFSET									

ROAD MC01

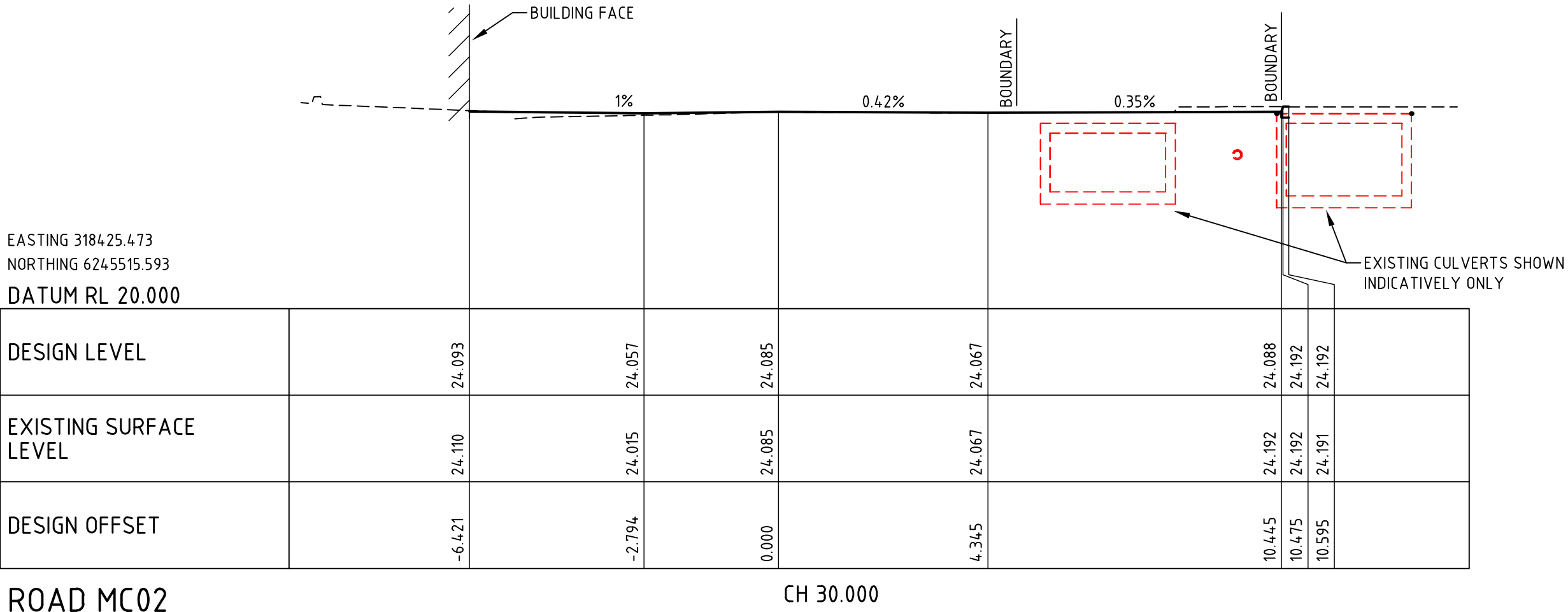
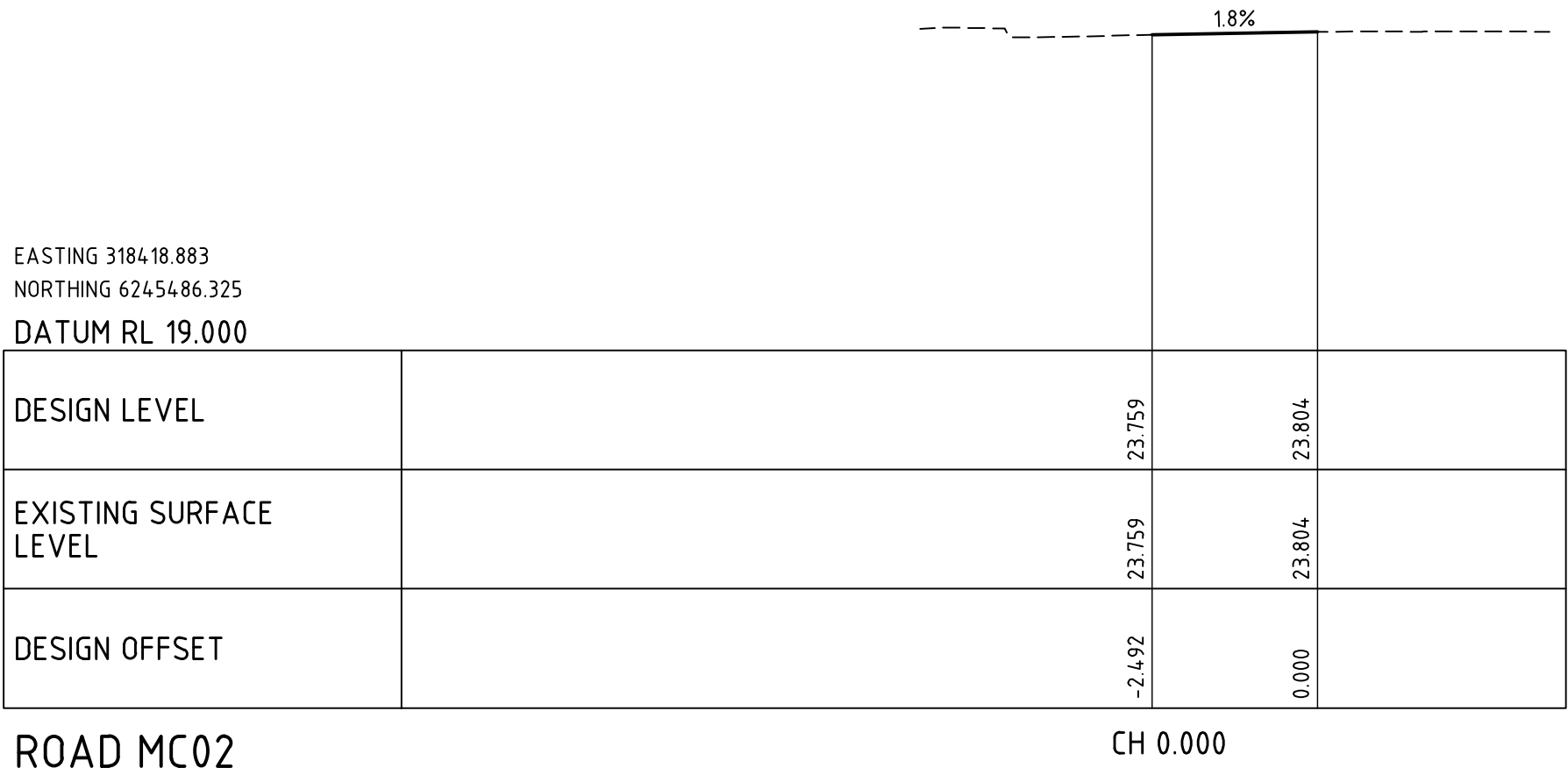
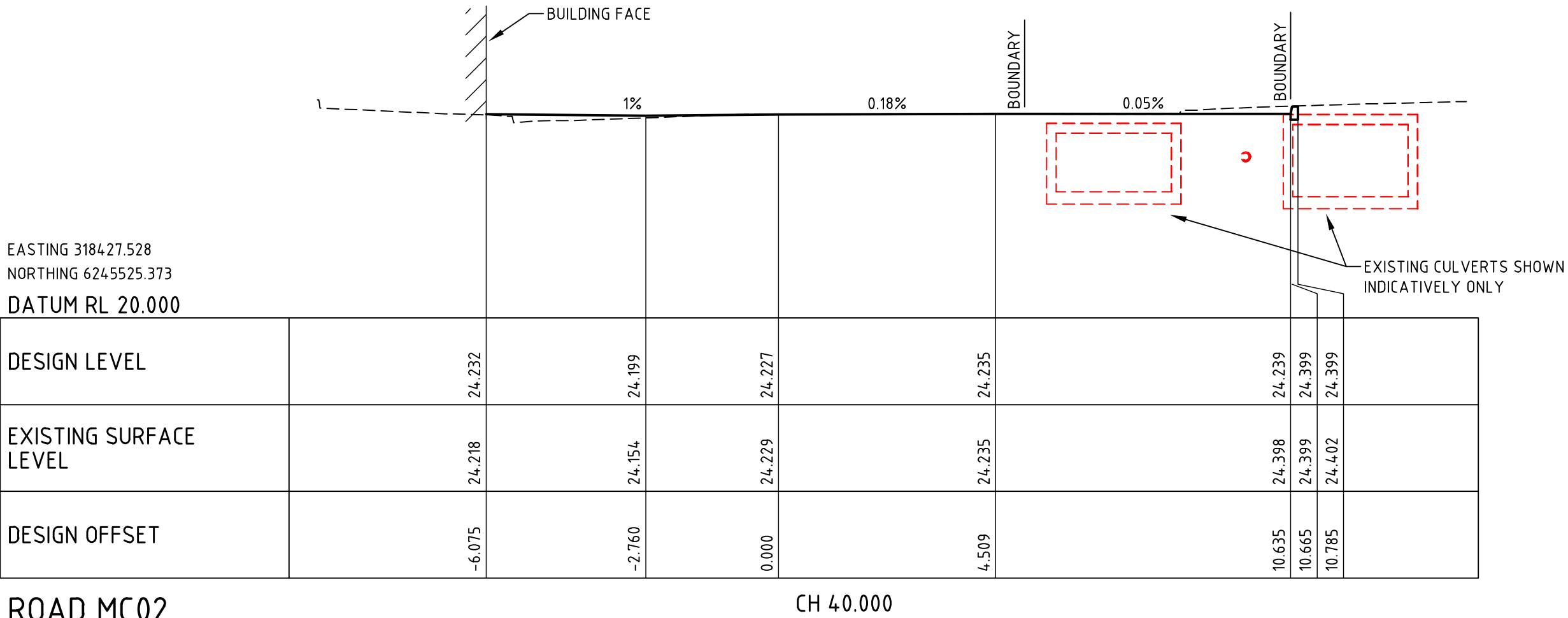
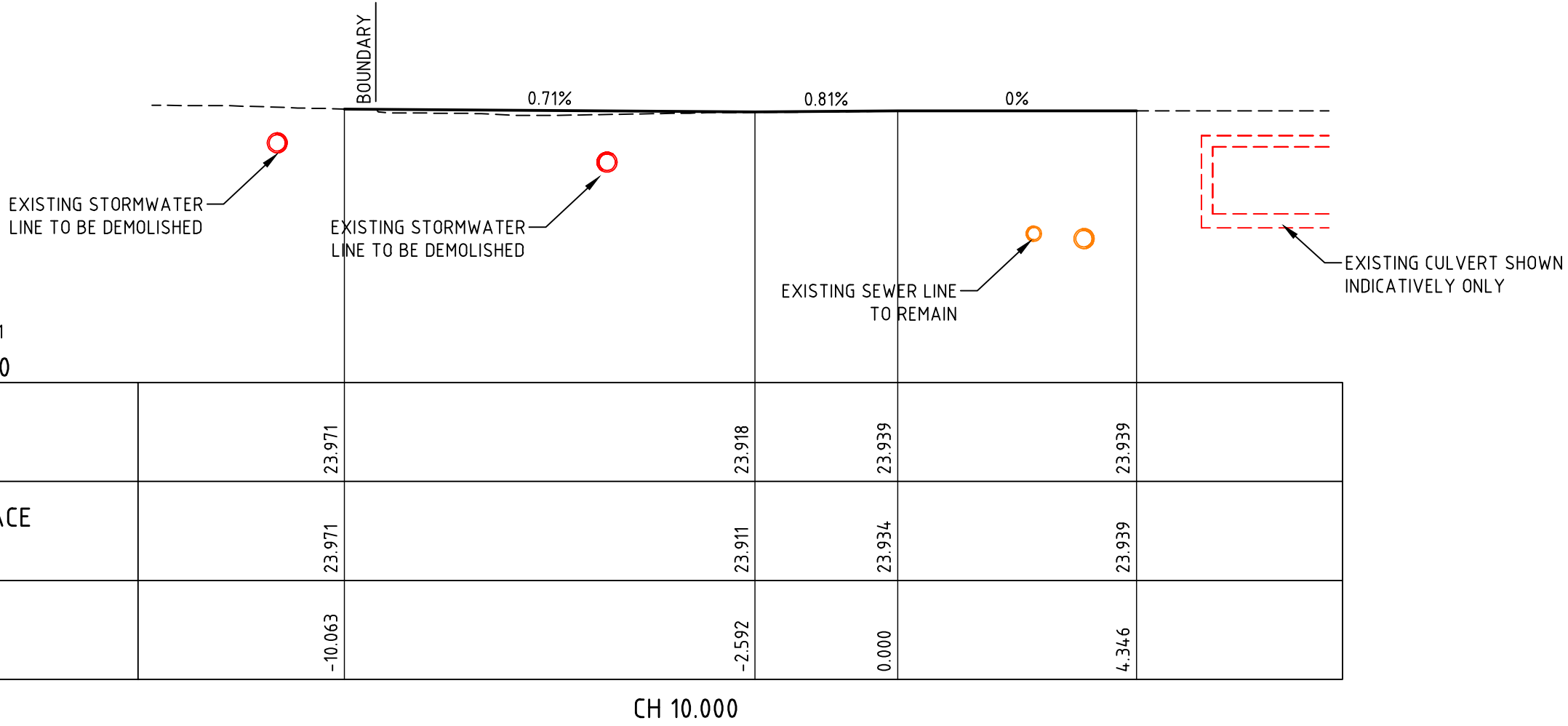
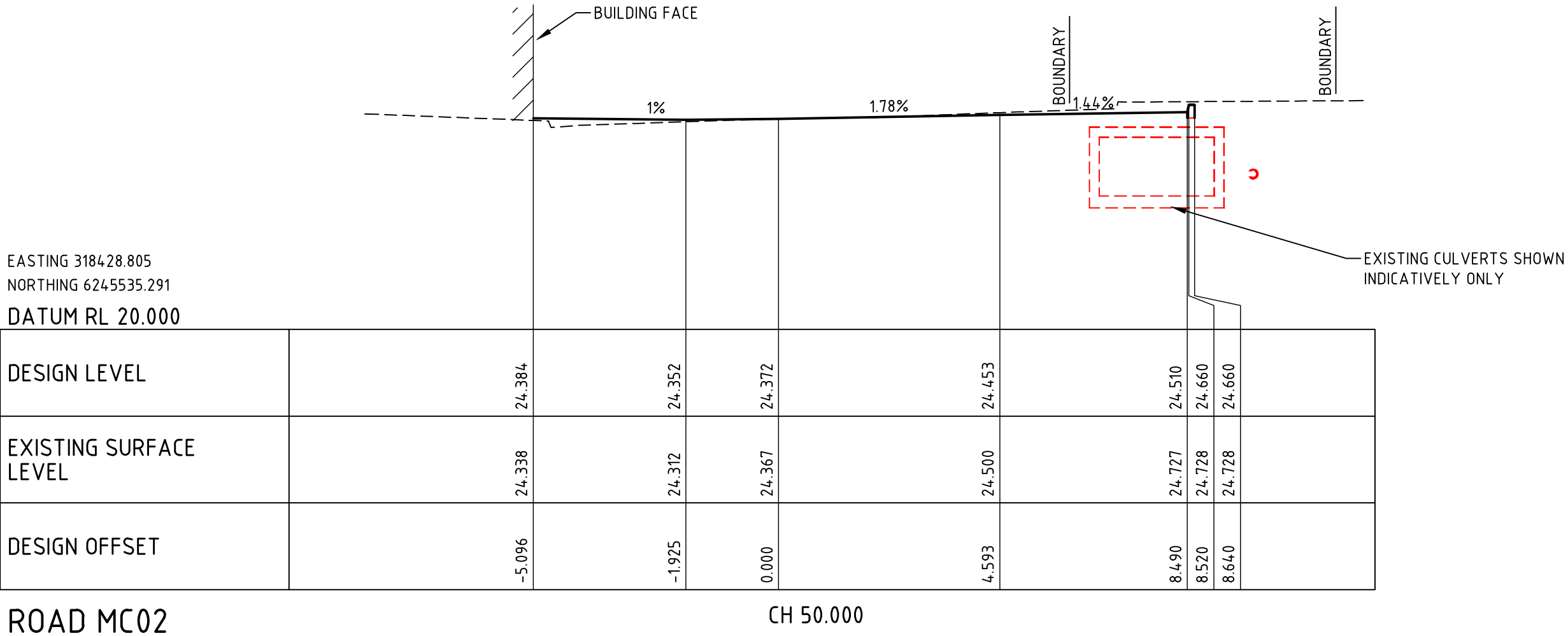
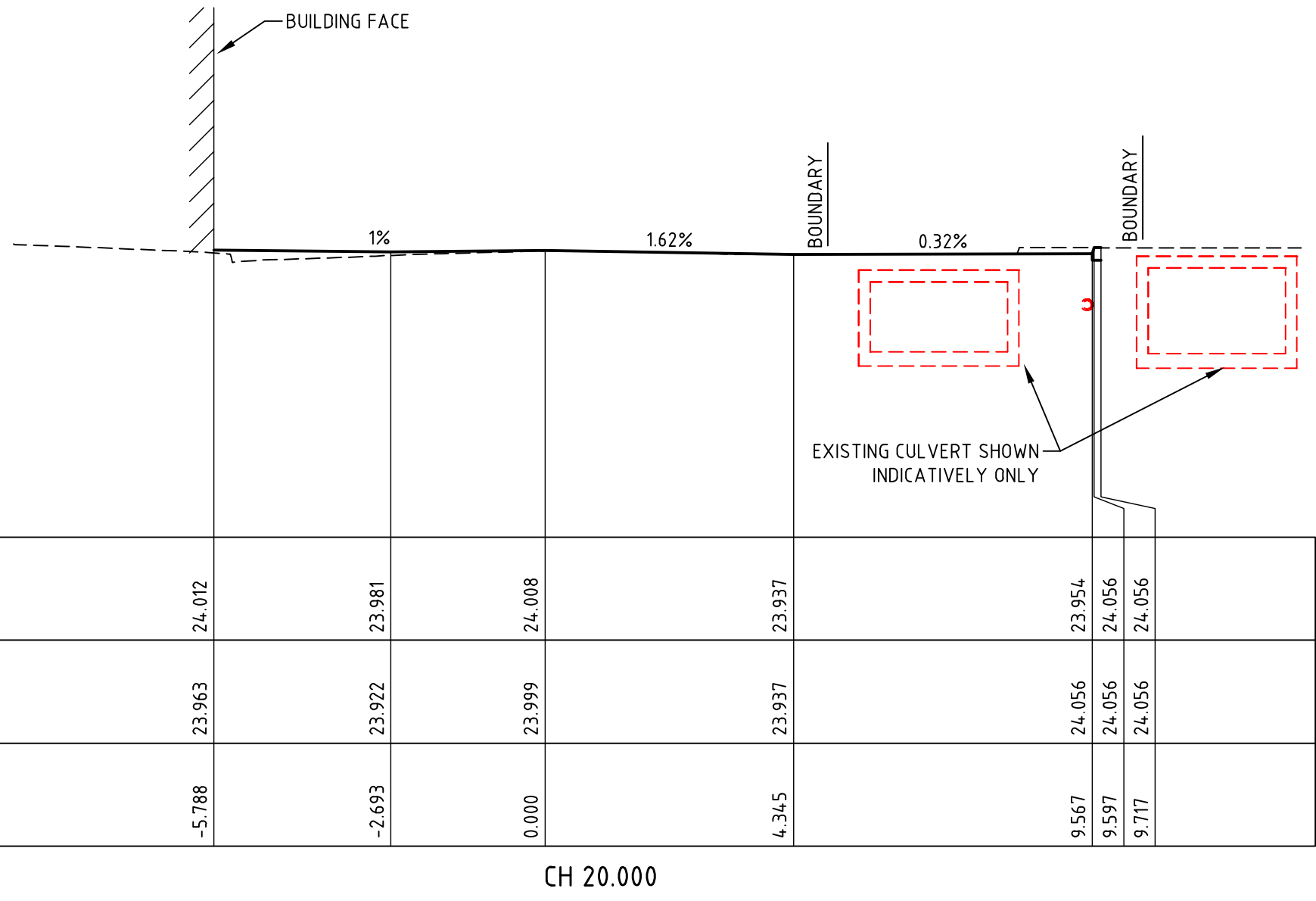
CH 90.000

EASTING 318367.226
NORTHING 6245567.845
DATUM RL 21.000

DESIGN LEVEL									
EXISTING SURFACE LEVEL									
DESIGN OFFSET									

ROAD MC01

CH 110.712



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REV. DETAILS
01 DRAFT SSDA 22.07.20
02 SSDA SUBMISSION 31.07.20
03 SSDA SUBMISSION 14.08.20

DATE

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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD
DRAWING TITLE
**ROAD MC02 CROSS SECTIONS
SHEET 1**

SSDA SUBMISSION

JOB No. 1097901C
DRAWN PA
CHECKED -
DATE -
REVISION
C00-85

NORTH
SCALE
1:100 @ A1

03

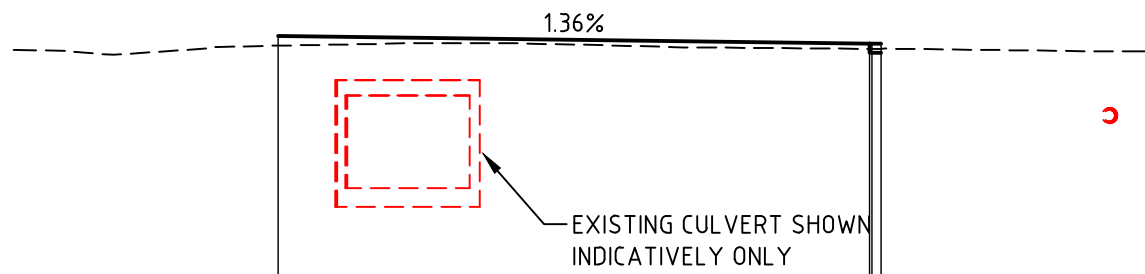
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Plotted: 14.08.20 at 10:18 AM

EASTING 318430.889
NORTHING 6245551.473
DATUM RL 20.000

DESIGN LEVEL		24.857		24.750	24.750	24.750
EXISTING SURFACE LEVEL		24.725		24.683	24.683	24.685
DESIGN OFFSET		0.000		7.895	7.895	7.975

ROAD MC02

CH 66.316

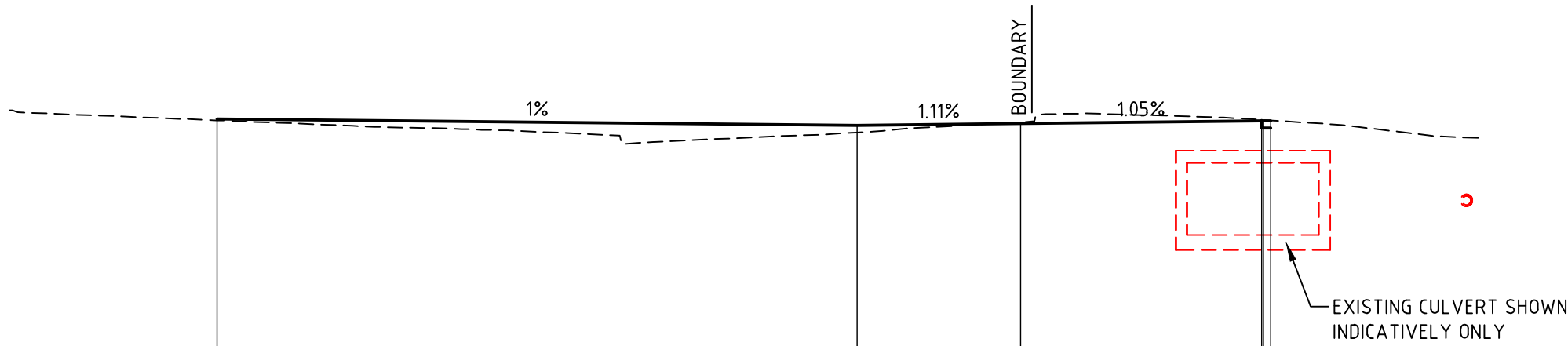


EASTING 318430.082
NORTHING 6245545.209
DATUM RL 20.000

DESIGN LEVEL	24.773		24.665	24.695	24.738	24.738
EXISTING SURFACE LEVEL	24.748		24.541	24.717	24.756	24.746
DESIGN OFFSET	-10.789		0.000	2.754	6.824	6.854

ROAD MC02

CH 60.000



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01	DRAFT SSDA	22.07.20
02	SSDA SUBMISSION	31.07.20
03	SSDA SUBMISSION	14.08.20

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BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE
**ROAD MC02 CROSS SECTIONS
SHEET 2**

SSDA SUBMISSION

JOB No. 1097901C DRAWN PA CHECKED - DATE -

DRAWING No. C00-86 REVISION



SCALE
1:100 @ A1

03