

KINGSWOOD APARTMENTS AND HOTEL

180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET, KINGSWOOD NSW 2747

CIVIL SERVICES

•CL40.60

SSDSSD

DP

USIL 36.37
Ø 150 uPVC
0.5 %
14.80 m
DSIL 36.30

SERVICE

SIZE

PROPOSED COVER LEVEL

SUBSOIL DRAINAGE LINE

DOWNPIPE CONNECTION (Ø150 uPVC UNO)

STORMWATER DRAINAGE STRUCTURES

STORMWATER DRAINAGE LINE WITH;
INVERT LEVEL UPSTREAM
PIPE SIZE AND MATERIAL CLASS
PIPE GRADE
PIPE LENGTH
INVERT LEVEL DOWNSTREAM

ON-SITE DETENTION TANK

RAINWATER TANK

STORMFILTER CHAMBER

CALL OUT TAG
SERVICE
SIZE
PENETRATION BELOW

PUMP

RWO

RAINWATER OUTLET

SEDIMENT FENCE

WRAP INLET GRATE IN FILTER FABRIC.
PROVIDE AT ALL EXISTING SURFACE
STORMWATER PITS, RAINWATER
OUTLETS AND TRENCH DRAINS.

SAND BAG SEDIMENT TRAP

STABILISED CONSTRUCTION EXIT

LOCALITY PLAN
NOT TO SCALE

DRAWING INDEX		
DRAWING NUMBER	DRAWING TITLE	REVISION
C01-001	COVER SHEET, LEGENDS AND DRAWING INDEX	A
C01-101	CONSTRUCTION NOTES	A
C03-001	SOIL EROSION AND SEDIMENT CONTROL PLAN NORTH	A
C03-002	SOIL EROSION AND SEDIMENT CONTROL PLAN SOUTH	A
C03-101	SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	A
C08-001	STORMWATER MANAGEMENT PLAN - NORTH GROUND FLOOR	A
C08-002	STORMWATER MANAGEMENT PLAN - NORTH BASEMENT 1	A
C08-003	STORMWATER MANAGEMENT PLAN - NORTH BASEMENT 2	A
C08-004	STORMWATER MANAGEMENT PLAN - NORTH BASEMENT 3	A
C08-005	STORMWATER MANAGEMENT PLAN - SOUTH GROUND FLOOR	A
C08-006	STORMWATER MANAGEMENT PLAN - SOUTH LOWER GROUND FLOOR	A
C08-007	STORMWATER MANAGEMENT PLAN - SOUTH BASEMENT 1	A
C08-008	STORMWATER MANAGEMENT PLAN - SOUTH BASEMENT 2	A
C08-301	STORMWATER DETAILS SHEET 1	A
C08-302	STORMWATER DETAILS SHEET 2	A
C08-303	STORMWATER DETAILS SHEET 3	A

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A	ISSUE FOR DEVELOPMENT APPLICATION	31.10.22	RP	JK					
Issue	Description	Date	Drawn	Approved					
10m at full size									

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KINGSWOOD APARTMENTS AND HOTEL

180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET
KINGSWOOD, NSW 2747

Drawing Title COVER SHEET, LEGENDS AND DRAWING INDEX					
Drawn RP	Date OCT 2022	Scale N/A	A1	Q.A. Check	Date
Designed JK	Project No. NSW220991	Dwg. No. C01-001	Issue A		

NOT FOR CONSTRUCTION

IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.

GENERAL NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND STRUCTURAL CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
2. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION
3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
4. ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL PLANS AND LEVELS ARE EXPRESSED IN METRES.
5. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND ENSURE NO PARTS BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.
6. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
7. THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM ACOR CONSULTANTS / PRINCIPAL'S REPRESENTATIVE BUT IS NOT AN AUTHORISATION FOR A VARIATION. ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH ACOR CONSULTANTS / PRINCIPAL'S REPRESENTATIVE BEFORE THE WORK COMMENCES.
8. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
9. THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS. ALL INSPECTIONS AND CERTIFICATIONS TO BE INCLUDED IN CONTRACTORS COST.
10. BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY.
11. THE WORD 'ENGINEER' USED IN THESE NOTES REFER TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF **ACOR CONSULTANTS PTY LTD.**
12. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE RELEVANT CURRENT WORKPLACE HEALTH AND SAFETY LEGISLATION.

SITWORKS NOTES

1. ORIGIN OF LEVELS :- AUSTRALIAN HEIGHT DATUM (A.H.D.)
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
3. ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE.
4. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
5. WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
7. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
8. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS.1289.5.1.1.
9. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
10. ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
11. PROVIDE 10mm WIDE EXPANDING CORK JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS , WALLS, FOOTINGS, COLUMNS, KERBS, DISH DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC
12. CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
13. ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.
14. MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS.
16. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
17. ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MIN OF 500mm PAST PAVING.
18. ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL INCLUDING, BUT NOT LIMITED TO, KERBS, FOOTPATHS, CONCRETE AREAS, GRASS AND LANDSCAPED AREAS.





EXISTING SERVICES AND FEATURES

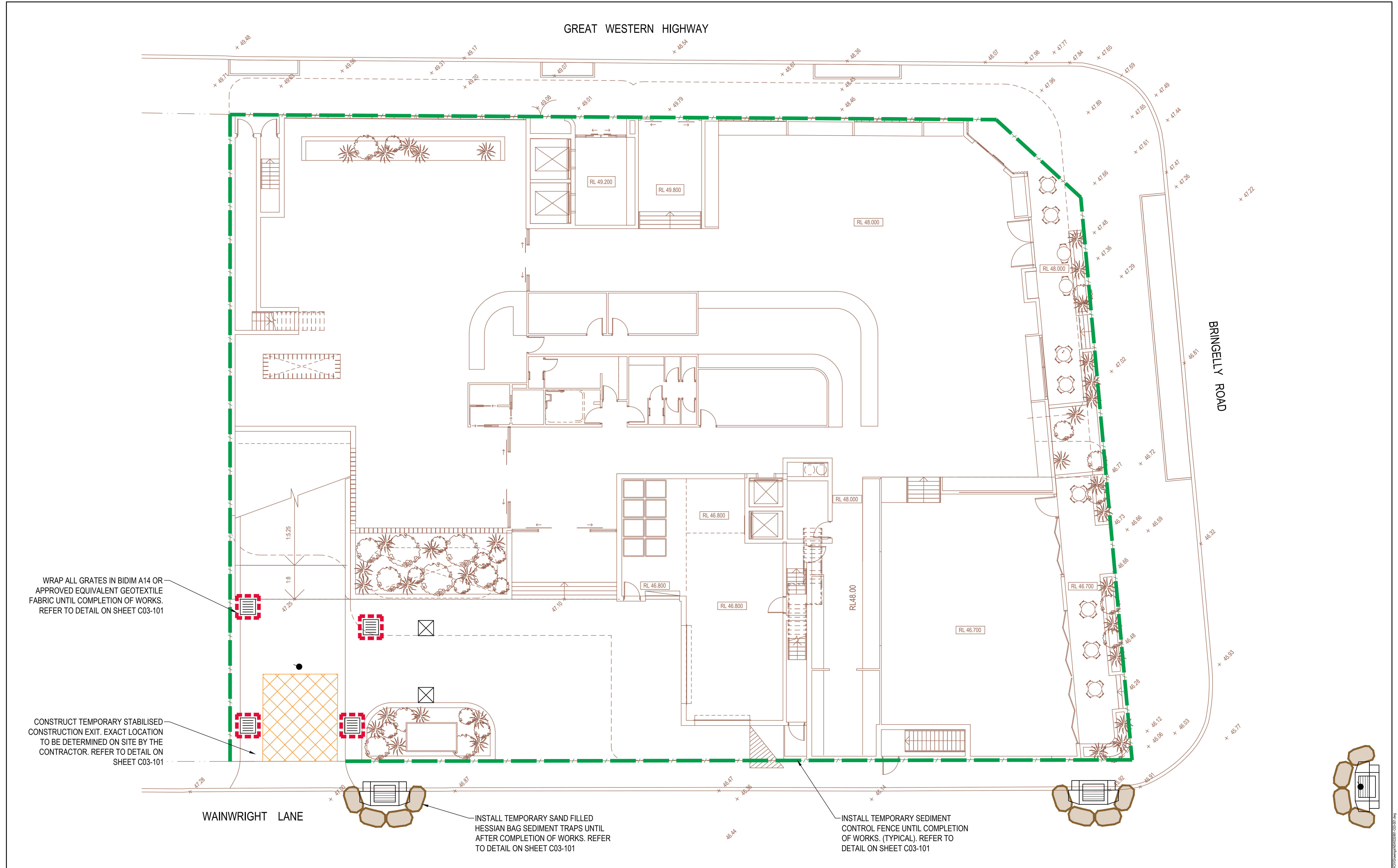
1. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE PRINCIPAL'S REPRESENTATIVE.
2. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
3. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN WRITTEN APPROVAL OF THEIR PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
4. EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
5. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE PRINCIPAL'S REPRESENTATIVE. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE.
5. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL OF PRINCIPAL'S REPRESENTATIVE FOR TIME OF INTERRUPTION.

STORMWATER NOTES

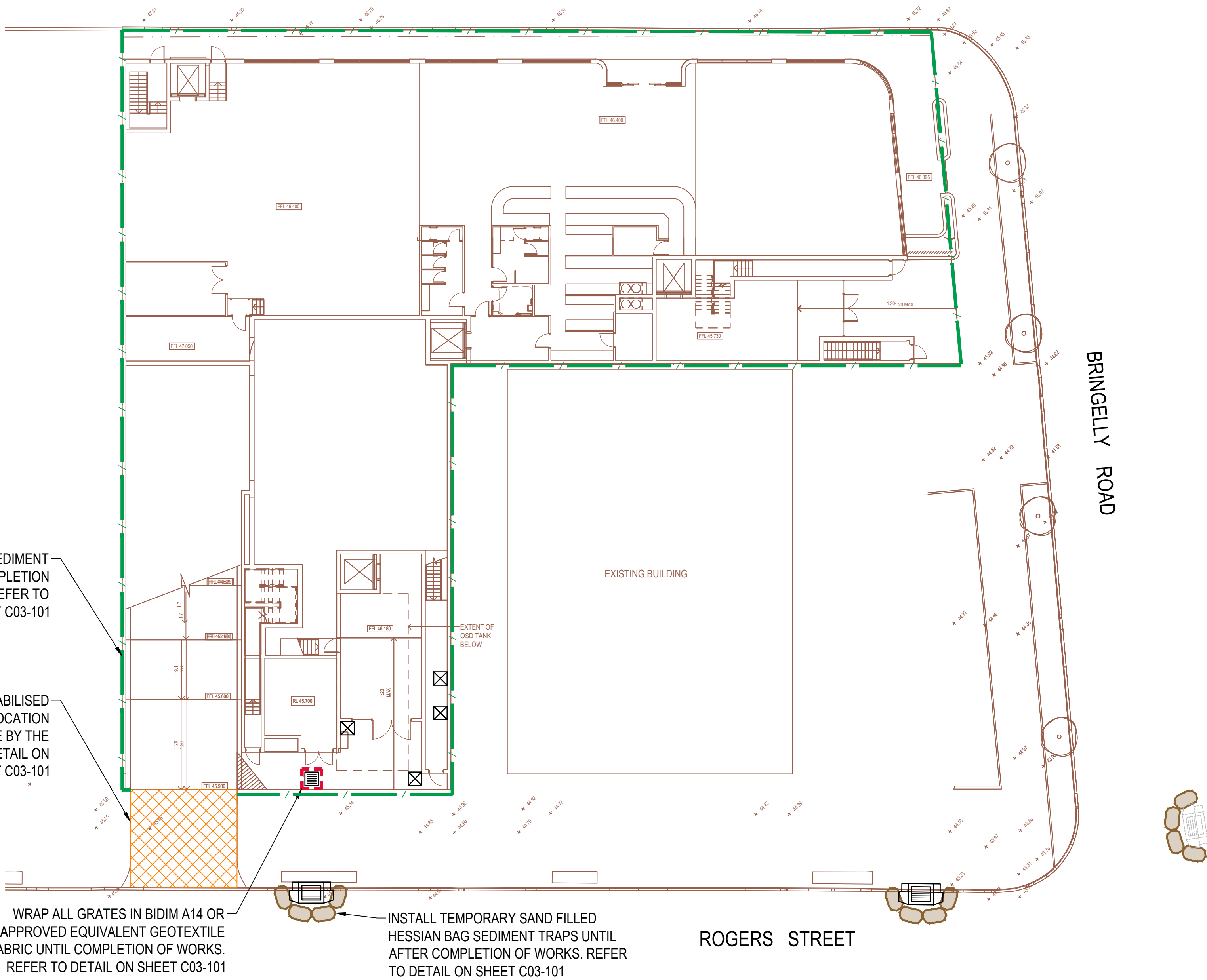
1. ALL 375 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "2" APPROVED SPIGOT AND SOCKET FRC OR RCP PIPES WITH RUBBER RING JOINTS. (U.N.O.) ALL DOWNPIPE DRAINAGE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS. (U.N.O.)
2. EQUIVALENT STRENGTH REINFORCED CONCRETE PIPES MAY BE USED.
3. ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
4. MINIMUM GRADE TO STORMWATER LINES TO BE 1%. (U.N.O.)
5. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
6. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
7. PRECAST PITS SHALL NOT BE USED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
8. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50MM CONCRETE BED (OR 75MM THICK BED OF 12MM BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150MM LAYERS TO 98% STANDARD MAX. DRY DENSITY.
9. BEDDING SHALL BE (U.N.O.) TYPE HS2, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
10. WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
11. WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED UPVC SEWER GRADE PIPE SHALL BE USED.
12. PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT.

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						LEVEL 41/264 GEORGE STREET SYDNEY, NSW 2000 PHONE : (02) 9251 6498		1/80 ALBION STREET SURRY HILLS, NSW 2010 PHONE : (02) 8354 1300					
										180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET KINGSWOOD, NSW 2747			
A	ISSUE FOR DEVELOPMENT APPLICATION					31.10.22	RP	JK					
Issue	Description	Date	Drawn	Approved									
1cm at full size						20mm		20mm					
Designed JK						Project No. NSW220991						Dwg. No. C01-101	
Issue						A							



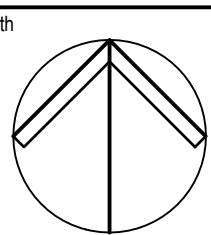
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1cm at full size 70cm 20cm					



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Project

KINGSWOOD APARTMENTS AND HOTEL

180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET
KINGSWOOD, NSW 2747

Drawing Title SOIL EROSION AND SEDIMENT CONTROL PLAN SOUTH					
Drawn RP	Date OCT 2022	Scale 1:200	A1	Q.A. Check	Date
Designed JK	Project No. NSW220991	Dwg. No. C03-002	Issue A		

NOT FOR CONSTRUCTION

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GENERAL INSTRUCTIONS

- ## CONSTRUCTION SEQUENCE

- ## EROSION CONTROL

- ## FENCING

- OTHER MATTERS

- ## SITE INSPECTION & MAINTENANCE

- NOT FOR CONSTRUCTION



NTS



- MAINTENANCE NOTES

N.T.S.



SECTION DETAIL

CONSTRUCTION NOTES

- NTS

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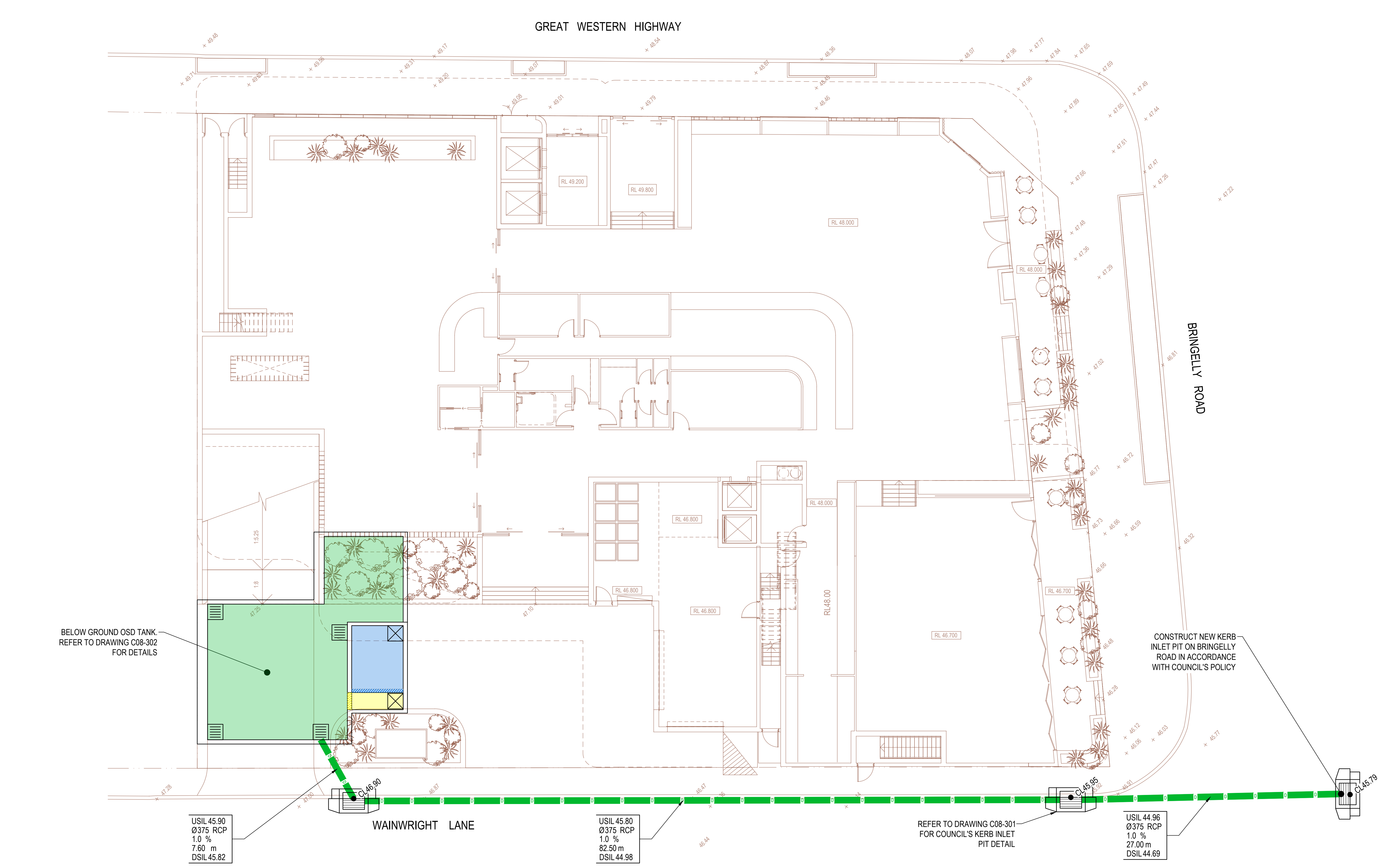
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Project

180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET
KINGSWOOD, NSW 2747

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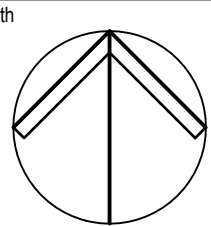


SCALE 1:100 @ A1
SCALE 1:200 @ A3

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Issue	Description	Date	Drawn	Approved	
1					



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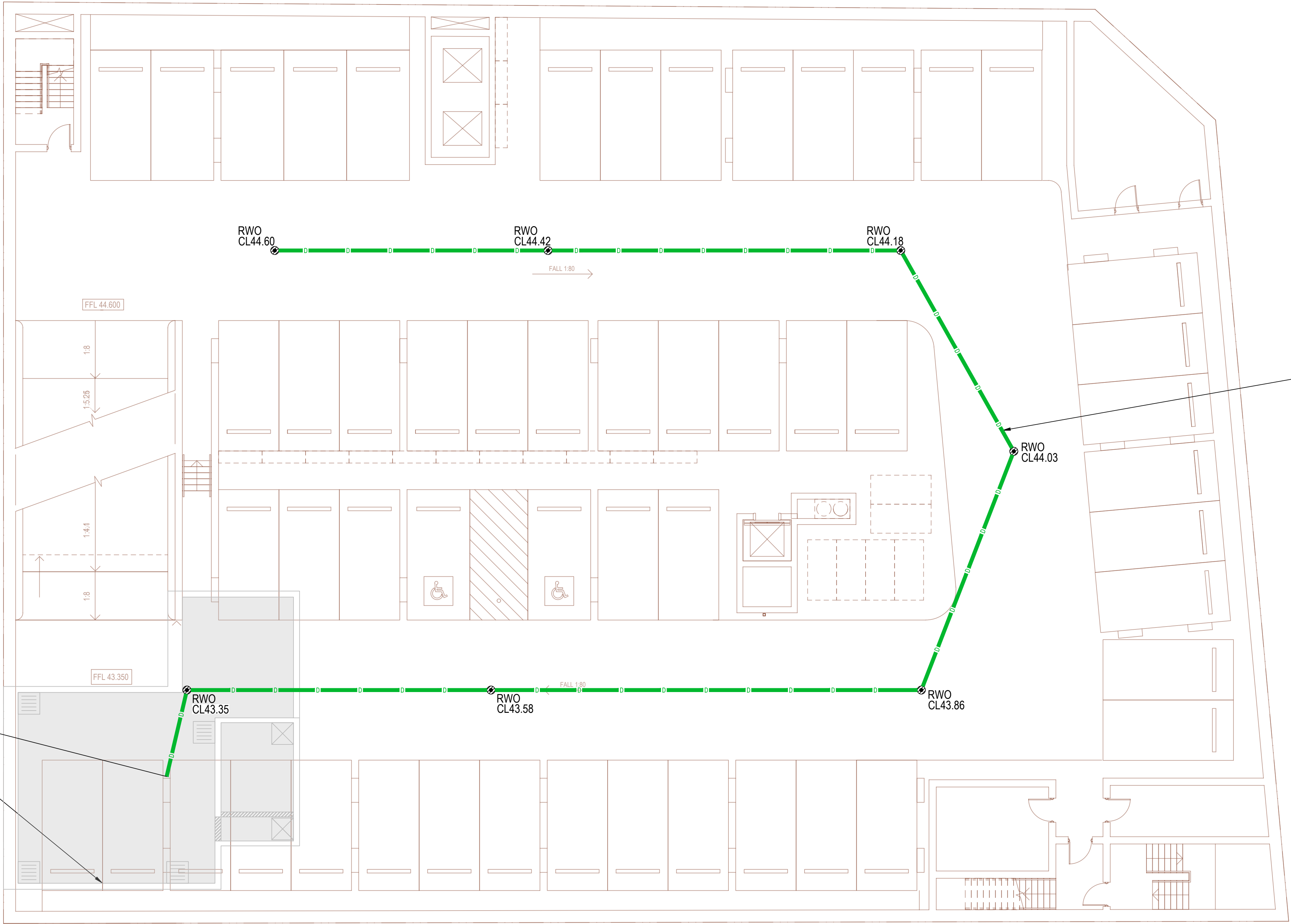
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Project
KINGSWOOD APARTMENTS AND HOTEL
180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET
KINGSWOOD, NSW 2747

Drawing Title STORMWATER MANAGEMENT PLAN - NORTH GROUND FLOOR					
Drawn RP	Date OCT 2022	Scale 1:100	A1	Q.A. Check	Date
Designed JK	Project No. NSW220991	Dwg. No. C08-001	Issue A		

NOT FOR CONSTRUCTION

GREAT WESTERN HIGHWAY



USIL 44.10
Ø 150 uPVC
1.6 %
80.20 m
DSIL 42.88

BRINGELLY ROAD

DP
150

OSD TANK TO BE SUSPENDED ABOVE
BASEMENT 1 ROOF. BASE OF OSD AT
RL45.65 TO ALLOW A MINIMUM HEAD
CLEARANCE OF 2.30m IN
ACCORDANCE WITH AS2890.1

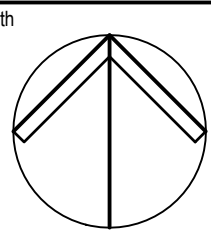
WAINWRIGHT LANE

SCALE 1:100 @ A1
SCALE 1:200 @ A3

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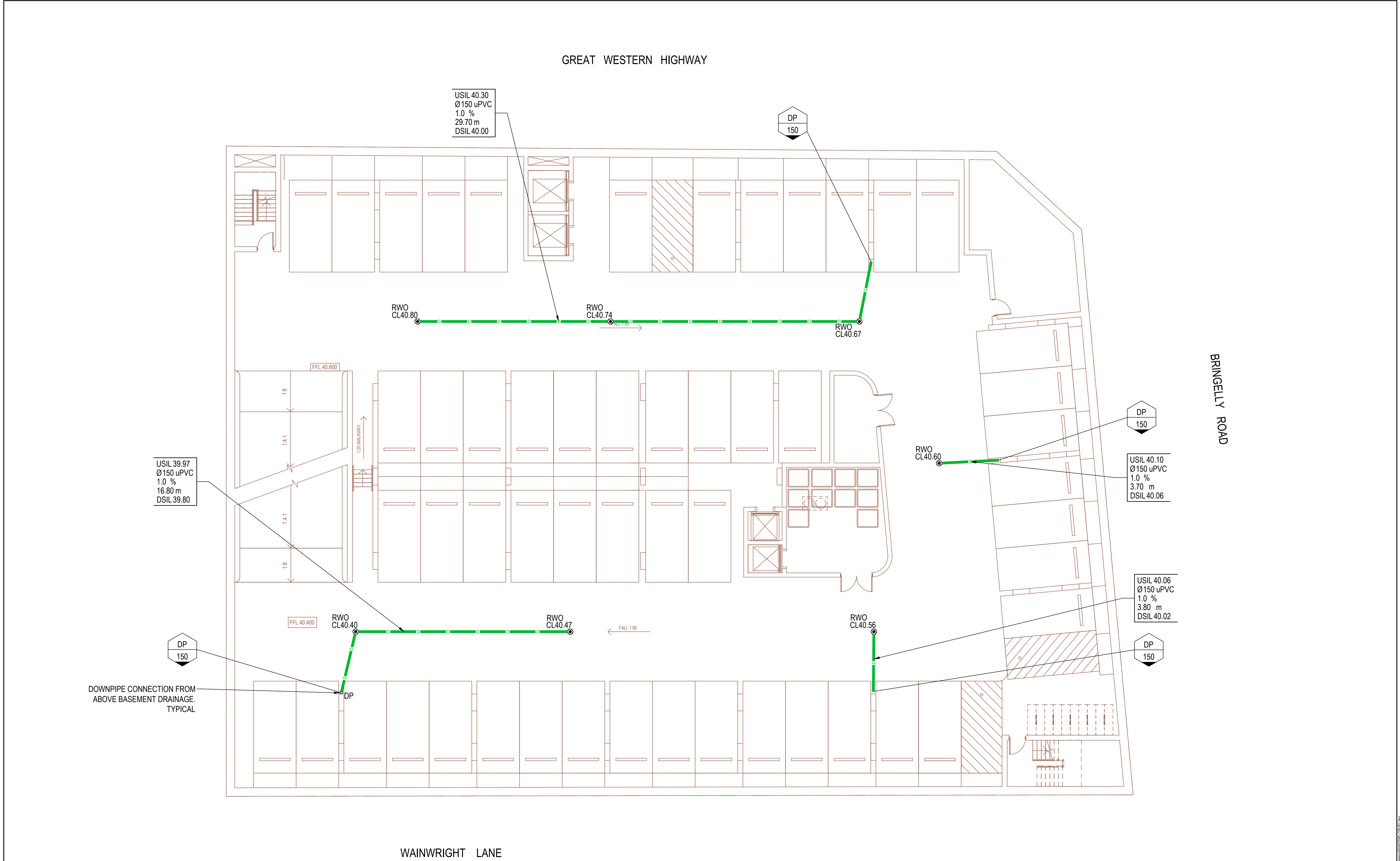
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Project
KINGSWOOD APARTMENTS AND HOTEL
180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET
KINGSWOOD, NSW 2747

Drawing Title STORMWATER MANAGEMENT PLAN - NORTH BASEMENT 1				
Drawn	Date	Scale	A1	Q.A. Check
RP	OCT 2022	1:100		
Designed	Project No.	Dwg. No.	Issue	
JK	NSW220991	C08-002	A	

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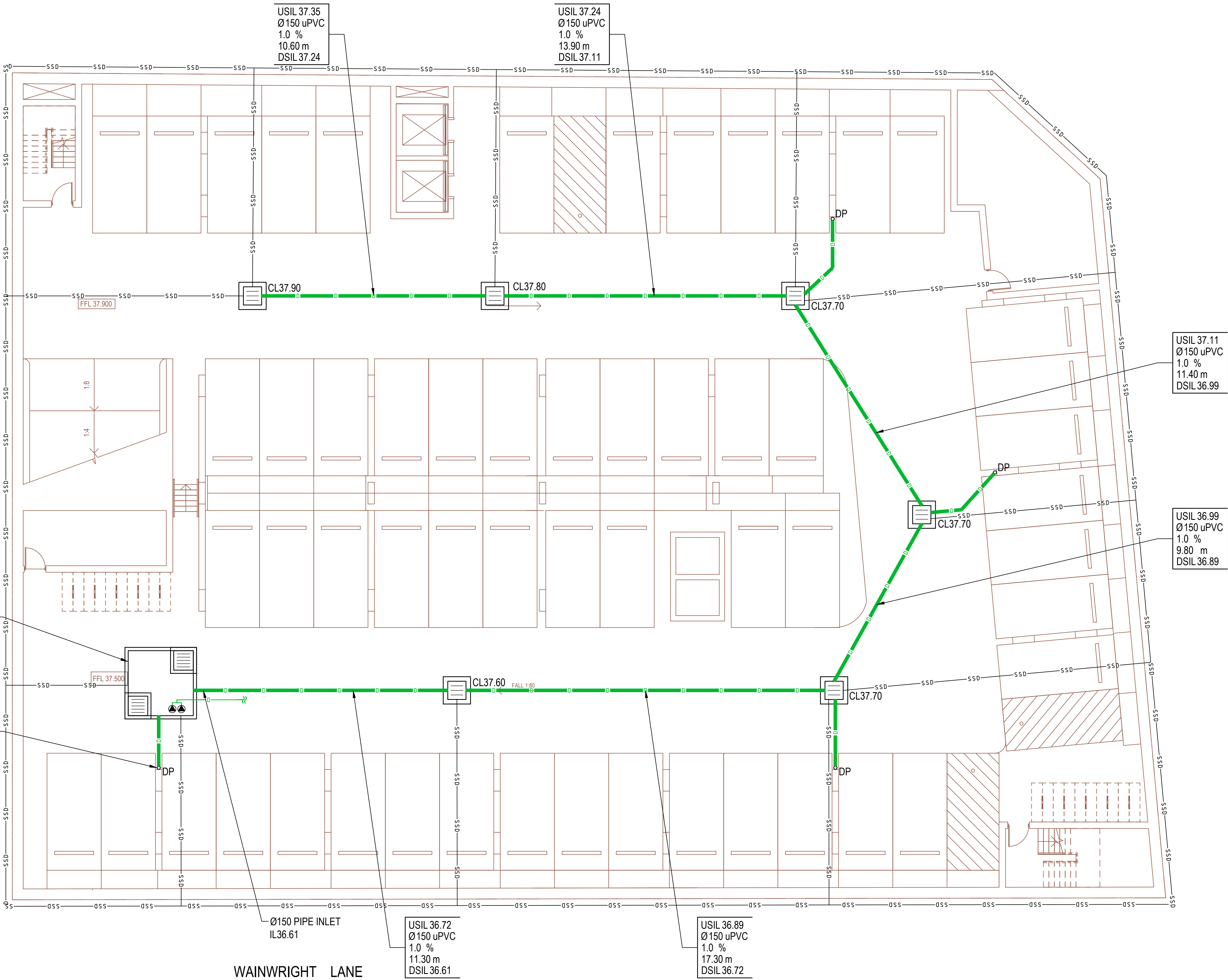


NOTE:
ALL PITS ARE TO BE 600x600 GRATED INLET PITS WITH
CLASS 'D' BOLT DOWN GRATE AND FRAME U.N.O.

GREAT WESTERN HIGHWAY

BRINGELLY ROAD

WAINWRIGHT LANE

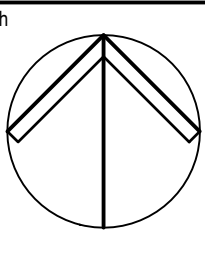


SCALE 1:100 @ A1
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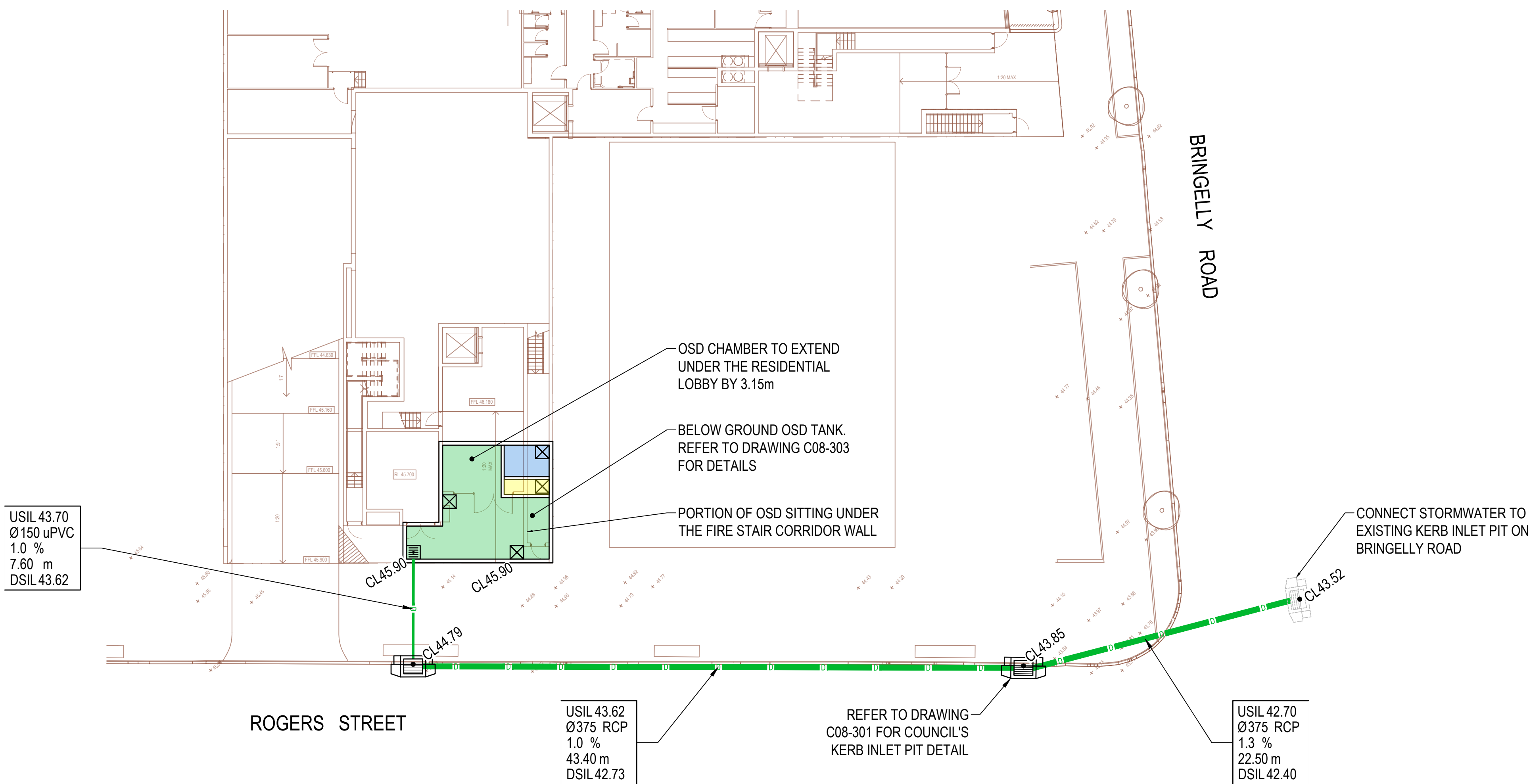
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Project
KINGSWOOD APARTMENTS AND HOTEL
180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET
KINGSWOOD, NSW 2747

Drawing Title STORMWATER MANAGEMENT PLAN - NORTH BASEMENT 3				
Drawn RP	Date OCT 2022	Scale 1:100	A1	Q.A. Check Date
Designed JK	Project No. NSW220991	Dwg. No. C08-004	Issue A	

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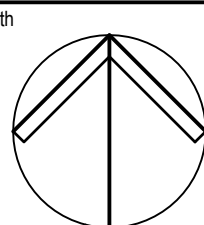


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1	1:10m at full page				20m



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Project
KINGSWOOD APARTMENTS AND HOTEL
180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET
KINGSWOOD, NSW 2747

Drawing Title
**STORMWATER MANAGEMENT PLAN - SOUTH
GROUND FLOOR**

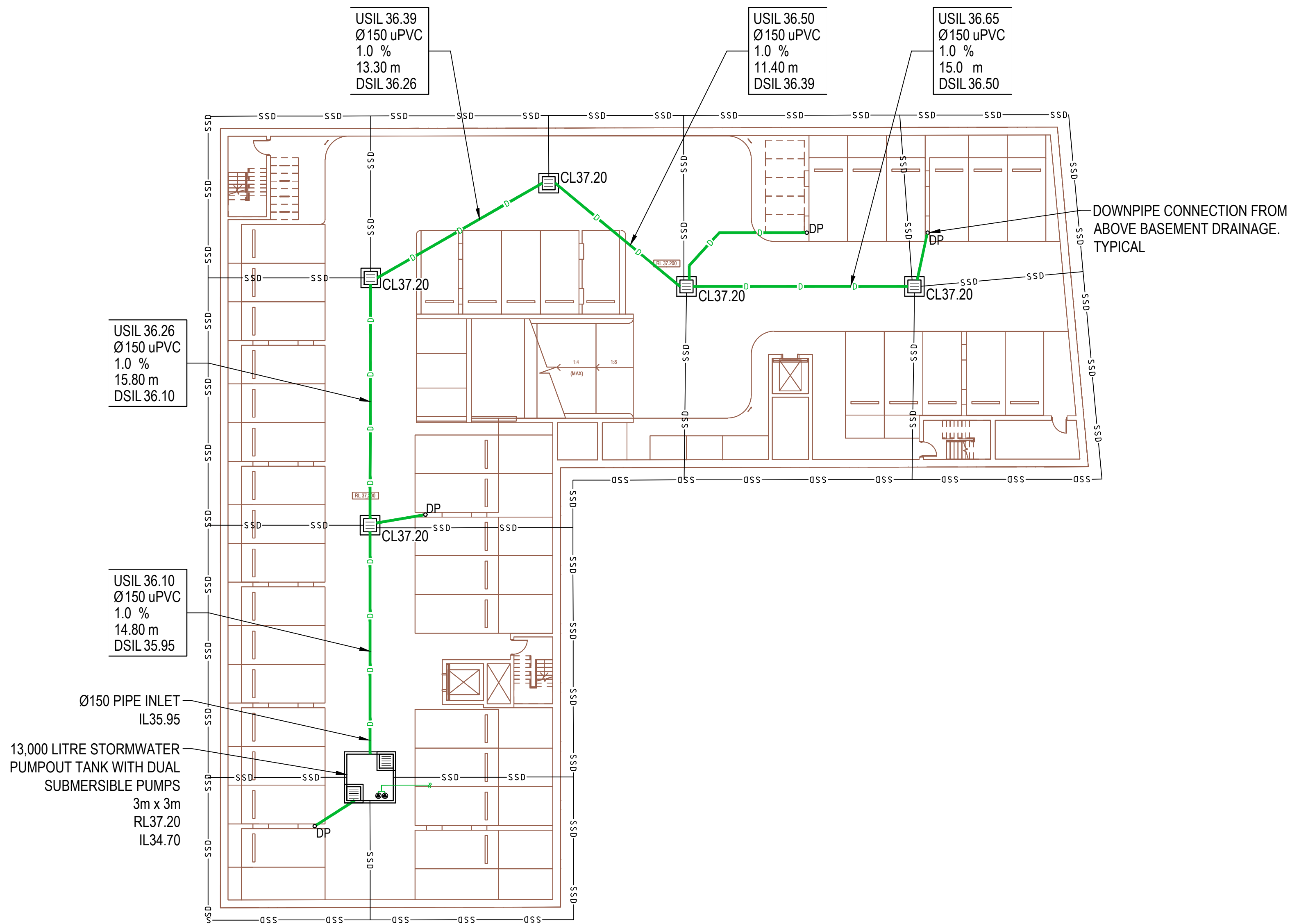
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Designed JK	Project No. NSW220991	Dwg. No. C08-005	Issue A		

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NOTE:
ALL PITS ARE TO BE 600x600 GRATED INLET PITS WITH
CLASS 'D' BOLT DOWN GRATE AND FRAME U.N.O.

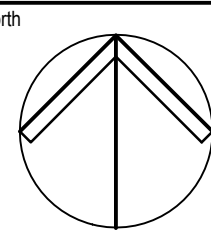


SCALE 1:200 @ A1
SCALE 1:400 @ A3

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This drawing has been assigned an electronic code that signifies the drawing has been checked and approved by:

A	ISSUE FOR DEVELOPMENT APPLICATION	31.10.22	RP	JK	
Issue	Description	Date	Drawn	Approved	
1					



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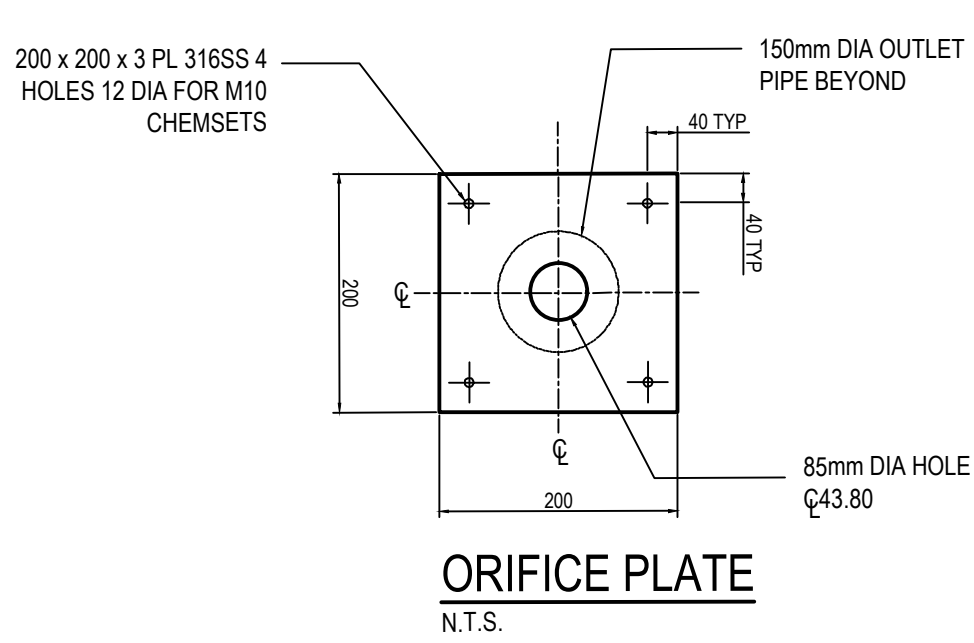
Project
KINGSWOOD APARTMENTS AND HOTEL
180 GREAT WESTERN HIGHWAY AND 26 RODGERS STREET
KINGSWOOD, NSW 2747

Drawing Title
**STORMWATER MANAGEMENT PLAN - SOUTH
BASEMENT 2**

Drawn RP	Date OCT 2022	Scale 1:200	A1	Q.A. Check	Date
Designed JK	Project No. NSW220991	Dwg. No. C08-008	Issue A		

NOT FOR CONSTRUCTION

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04/31/2022 2:45pm



DESIGN CRITERIA - ON-SITE DETENTION (SOUTHERN OSD)	
TOTAL SITE AREA OF DEVELOPMENT WORKS =	0.183Ha
DESIGN METHOD =	ILSAX
PERMISSIBLE SITE DISCHARGE (PSD) =	120L/s/Ha
SOUTH SITE (PSD) =	22.0L/s
MINIMUM SITE STORAGE REQUIREMENT (SSR) =	280m³/Ha
SOUTH SITE (SSR)	51.2m³
1% AEP STORM POST-DEVELOPED FLOWS (L/s)	20L/s
OSD STORAGE VOLUME =	80.6m³
RAINWATER TANK VOLUME =	10kLm³

