

OLD KINGS SCHOOL CIVIL ENGINEERING WORKS



LOCALITY PLAN
SCALE 1:1000

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B	ISSUE FOR SSD APPROVAL	XC	IAH	27.04.16
A	ISSUE FOR COORDINATION	XC	IAH	04.04.16
REV.	DESCRIPTION	DRAWN	APPD	DATE

ARCHITECT:




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OLD KING'S SCHOOL

TITLE:
COVER SHEET, LOCALITY PLAN
AND DRAWING INDEX

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PROJECT No.	DRAWING No.	REVISION
28504-SYD	C-001	B

GENERAL NOTES

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, UNO (UNLESS NOTED OTHERWISE).

NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.

ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORK.

DETAIL SURVEY DATA WAS SUPPLIED BY XXXXXX, DRAWING DATED XXXXXXXXXXXX.

EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.

BULK EARTHWORK NOTES

- REFER SPECIFICATIONS NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
- CAD FILES / DTM FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
- STRIP EXISTING TOPSOIL IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER / REPORT. FOR THE PURPOSES OF EARTHWORKS CALCULATIONS A TOPSOIL STRIPPING DEPTH OF XXXxmm HAS BEEN ASSUMED. GROUND SLAB DEPTH OF XXXxmm HAS BEEN ASSUMED WHERE REQUIRED.
- NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
- NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS; ie SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS AND THE LIKE.
- THE CONTRACTOR SHALL USE FINAL SURFACE LEVELS AND TYPICAL PAVEMENT DETAILS FOR ACTUAL EARTHWORKS LEVELS.
- BULK EARTHWORKS ARE BASED ON THE FOLLOWING DEPTHS FROM FINISHED SURFACE LEVELS:
 - ASPHALT PAVEMENT XXXmm
 - CONCRETE PAVEMENT XXXmm
 - BUILDING SLAB XXXmm (REFER STRUCTURAL DWGS)
 - FOOTPATH PAVEMENT XXXmm
 - LANDSCAPE AREA XXXmm
- APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS;
 - CUT XX,XXX cu.m
 - FILL XX,XXX cu.m
 - BALANCE XX,XXX cu.m
 - NOTE: SITE STRIPPING VOLUMES HAVE NOT BEEN INCLUDED IN ABOVE CALCULATIONS.
- TEMPORARY 1:XX SLOPES FOR EXCAVATIONS HAVE BEEN ADOPTED (UNO), CONTRACTOR TO CONFIRM ADEQUACY WITH GEOTECHNICAL ENGINEER.

PAVEMENT NOTES

- REFER SPECIFICATIONS NOTES FOR PAVEMENT GENERAL REQUIREMENTS.
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- CAD FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
- CONTRACTOR TO CONFIRM ALL CBR VALUES PRIOR TO COMMENCEMENT OF WORKS.
- ENSURE ALL INTERFACES WITH EXISTING MATCH NEATLY.
- WHEEL STOPS TO BE INSTALLED TO ALL CAR SPACES AS SHOWN AND INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND MANUFACTURERS SPECIFICATIONS.
- PROVIDE ISOLATION JOINT TO BUILDING SURROUND, REAR OF KERBS, ABUTMENTS TO RETAINING WALLS AND UTILITY SERVICE PITS / POLES

SIGNAGE AND LINEMARKING NOTES

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- CONTRACTOR TO CONFIRM ALL CBR VALUES PRIOR TO COMMENCEMENT OF WORKS.
- ENSURE ALL INTERFACES WITH EXISTING MATCH NEATLY - REFER STANDARD INTERFACE DETAILS ON DETAILS SHEET.
- WHEEL STOPS TO BE INSTALLED TO ALL CAR SPACES AS SHOWN AND INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND MANUFACTURERS SPECIFICATIONS.
- PROVIDE ISOLATION JOINT TO BUILDING SURROUND, REAR OF KERBS, ABUTMENTS TO RETAINING WALLS AND UTILITY SERVICE PITS / POLES - REFER DETAIL 'U'

STORMWATER NOTES

- ALL PIPES MUST BE REINFORCED CONCRETE CLASS '2' RUBBER RING JOINT TO AS1342 UNO.
- THE CONTRACTOR IS TO ORGANISE AND STAGE CONSTRUCTION WORK AND UNDERTAKE ANY DIVERSION WORKS TO ENSURE THE EXISTING DRAINAGE IS ABLE TO CONVEY ALL STORMWATER FLOWS THAT MAY OCCUR DURING THE PERIOD OF THE CONSTRUCTION WORKS.
- THE CONTRACTOR IS TO PROVIDE DIVERSION WORKS ETC TO PROTECT WORKS IN PROGRESS UNTIL SUCH A TIME AS THE WORKS ARE IN A FINISHED AND STABLE CONDITION.
- ANY DAMAGE TO THE WORKS DUE TO STORMWATER FLOWS OR FLOODING DURING THE CONSTRUCTION PERIOD IS AT THE CONTRACTOR'S RISK.
- SETOUT POINTS FOR STORMWATER STRUCTURES ARE AS INDICATED IN THE DRAWINGS UNLESS OTHERWISE NOTED.
- ALL PAVED SURFACE LEVELS AND GRADES TO BE COORDINATED WITH GULLY PIT LEVELS TO ENSURE NO UNDRAINED AREAS OCCUR.
- THE SIDES OF ALL PIPE TRENCH EXCAVATIONS DEEPER THAN 1.0m SHALL BE FULLY SUPPORTED AT ALL TIMES AND HAVE APPROPRIATE EDGE PROTECTION.
- ALL NEW PIPES TO BE LAID IN AN UPSTREAM DIRECTION. THE LINE, LEVEL AND LOCATION OF EXISTING SERVICES CROSSING THE LINE OF THE PROPOSED STORMWATER PIPE SHALL BE DETERMINED BY EXCAVATION PRIOR TO THE LAYING OF THE PIPE. IF CONFLICT IS APPARENT, THE ENGINEER SHALL BE NOTIFIED AND INSTRUCTIONS AS TO WHETHER THE EXISTING SERVICE IS TO BE ADJUSTED OR THE PROPOSED PIPE INVERT ALTERED WILL BE ISSUED.
- PIPE BEDDING, HAUNCH AND BACKFILL TO BE AS SHOWN ON THE CIVIL DETAILS DRAWINGS AND THE CIVIL SPECIFICATION.
- SUBSOIL DRAINAGE PIPES TO BE SLOTTED PIPE AND FILTER SOCK CLASS 1000 TO AS2439 PART 1 LAID AT PREFERABLE MINIMUM GRADE 1 IN 100 OR ABSOLUTE MINIMUM 1 IN 200 WHERE LIMITED BY OUTFALL LEVELS.
- STORMWATER STRUCTURES ARE TO BE CONSTRUCTED PERPENDICULAR TO THE INCOMING PIPEWORK UNLESS OTHERWISE NOTED.
- PRECAST COMPONENTS SHALL BE CONNECTED BY MEANS OF EPOXY OR CHEMICAL GROUTED BARS OF THE SAME DIAMETER AND SPACING AS THE SMALLER BARS IN THE RESPECTIVE COMPONENTS.
- PRE-CAST PITS MUST HAVE LIFTING ANCHORS.
- WORKING LOADS ARE THOSE DUE TO FILL MATERIAL AND STANDARD HIGHWAY VEHICLES AS PER AS3725. CONSTRUCTION LOADS HAVE NOT BEEN ALLOWED FOR.
- ALL EXPOSED EDGES ON STORMWATER PITS TO BE ROUNDED TO 5mm RAD. UNO.

SIGNAGE AND LINEMARKING NOTES

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OLD KING'S SCHOOL

TITLE:
GENERAL NOTES

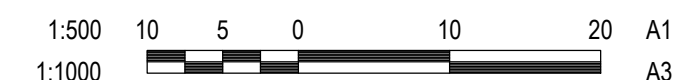
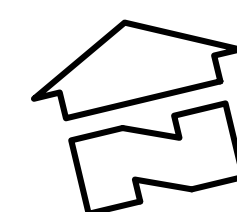
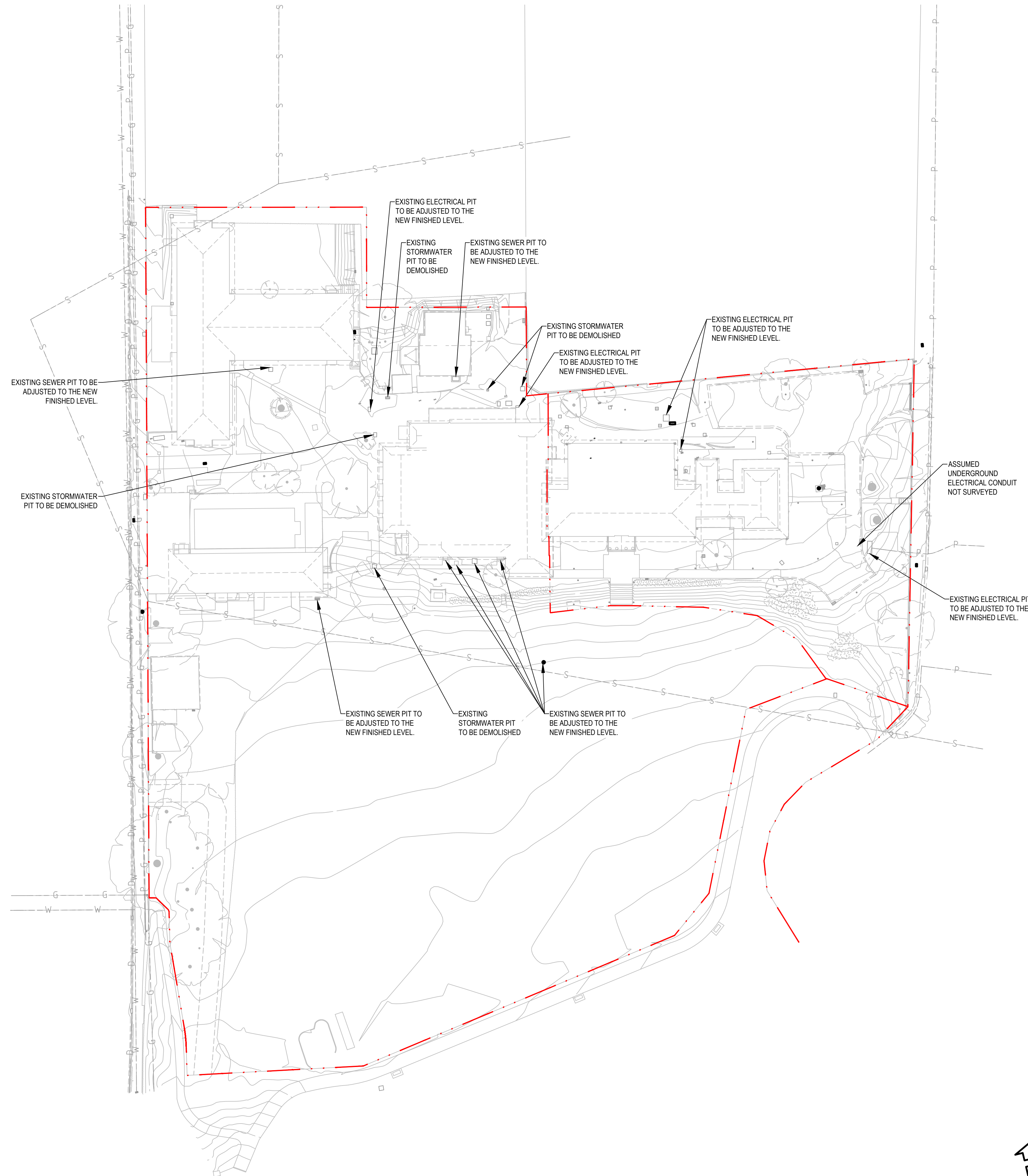
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PROJECT No.	DRAWING No.	REVISION
28504-SYD	C-002	B



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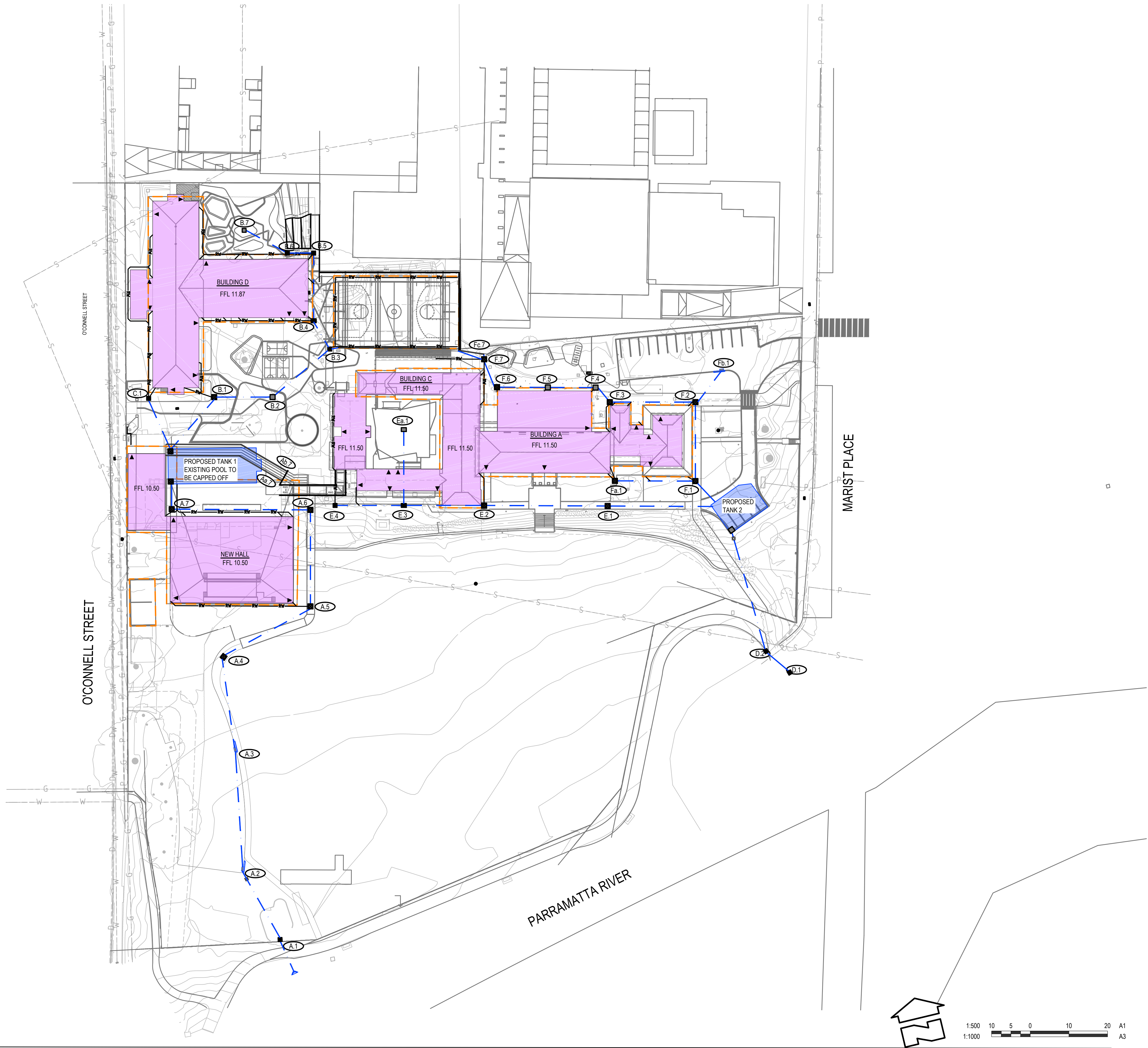
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EXISTING CONDITIONS

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28504-SYD	C-011	A	



LEGEND

- PROPOSED SITE BOUNDARY
- PROPOSED BUILDING OVER
- PROPOSED STORMWATER PIPE
- PROPOSED RAINWATER PIPE
- PROPOSED RETAINING WALL
- PROPOSED GRATED PIT
- PROPOSED JUNCTION PIT
- SURFACE INLET PIT
- PROPOSED GRATED DRAIN
- PIT TAG
- PEDESTRIAN ENTRANCE

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TITLE:
GENERAL ARRANGEMENT
PLAN

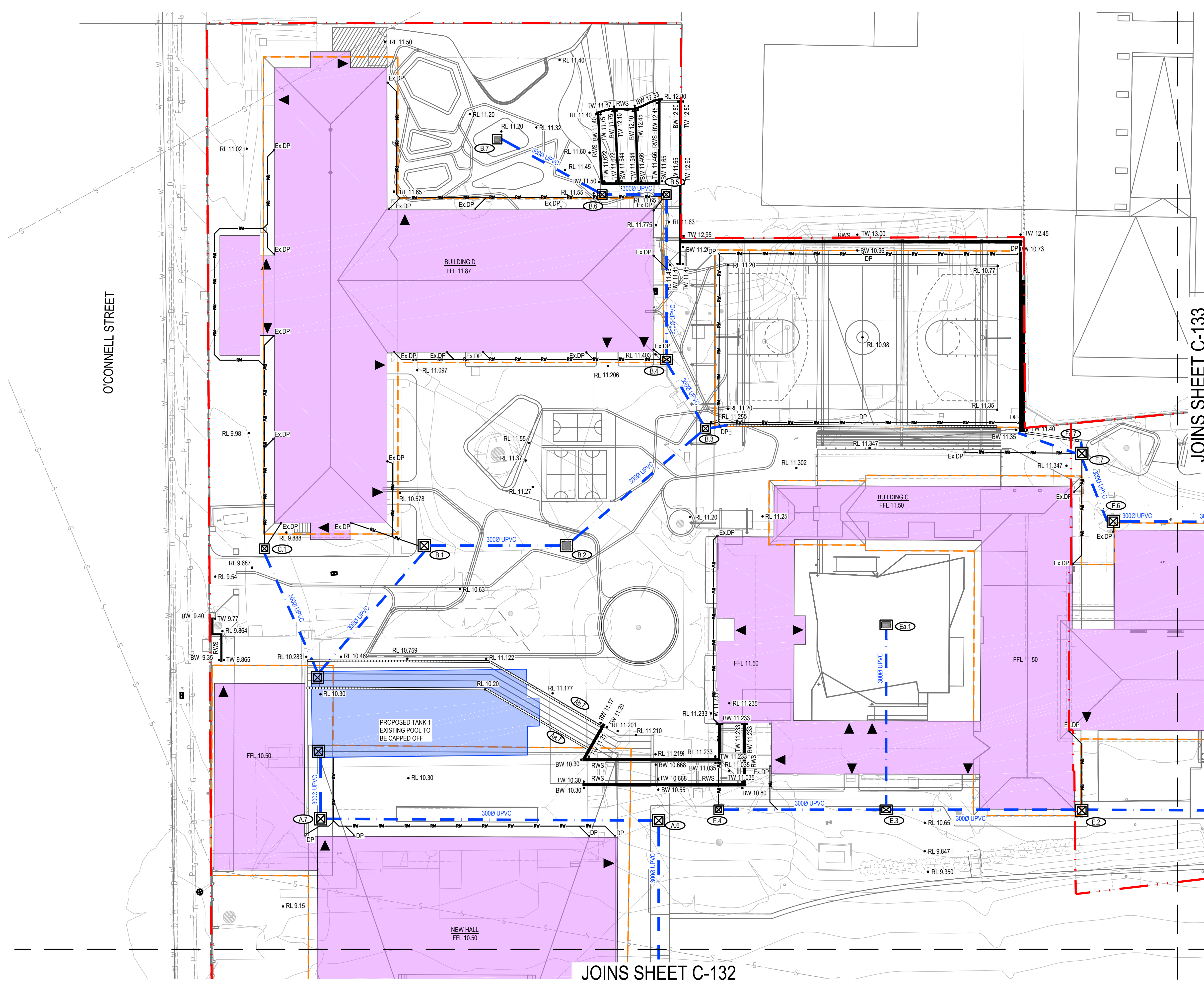
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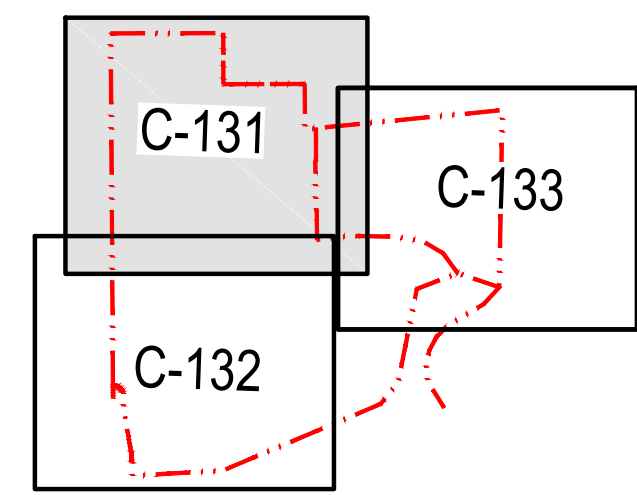
PROJECT No.	DRAWING No.	REVISION
28504-SYD	C-101	B

A1 DRAWING - BUILDING SERVICES GROUP



LEGEND

- PROPOSED SITE BOUNDARY
- PROPOSED BUILDING OVER
- ROOF OUTLINE
- PROPOSED STORMWATER PIPE
- PROPOSED RAINWATER PIPE
- RETAINING WALL TO STRUCTURAL ENGINEER DETAILS
- PROPOSED JUNCTION PIT
- PROPOSED GRATED PIT
- SURFACE INLET PIT
- PROPOSED GRATED DRAIN
- PIT TAG
- EXISTING DOWNPIPE
- PROPOSED DOWNPIPE
- PEDESTRIAN ENTRANCE



KEY PLAN
N.T.S

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TITLE:
STORMWATER DRAINAGE
PLAN – SHEET 1

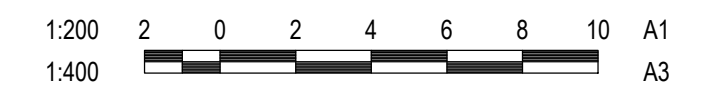
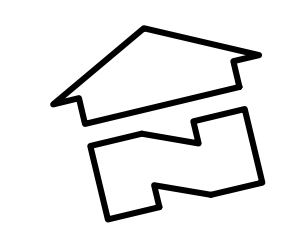
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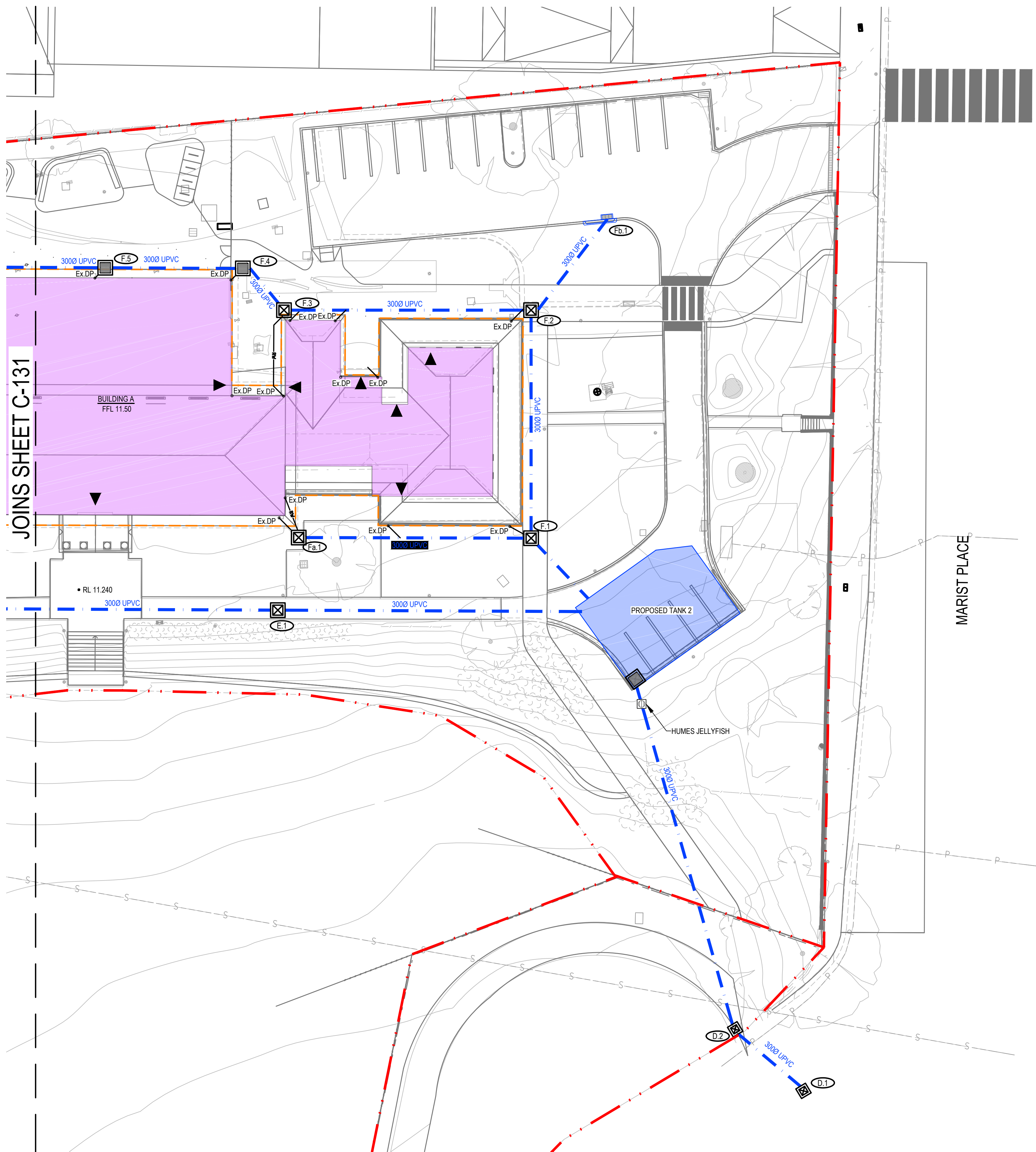
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PROJECT No.	DRAWING No.	REVISION
28504-SYD	C-131	B

A1 DRAWING - BUILDING SERVICES GROUP

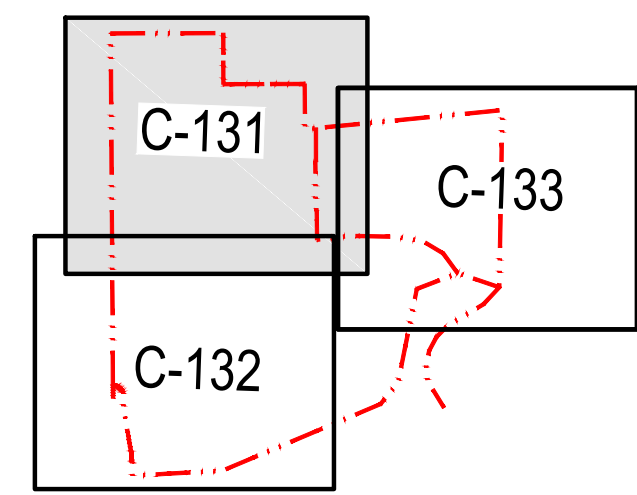




JOINS SHEET C-131

LEGEND

- PROPOSED SITE BOUNDARY
- PROPOSED BUILDING OVER
- ROOF OUTLINE
- PROPOSED STORMWATER PIPE
- PROPOSED RAINWATER PIPE
- RETAINING WALL TO STRUCTURAL ENGINEER DETAILS
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TITLE:
**STORMWATER DRAINAGE
PLAN – SHEET 2**

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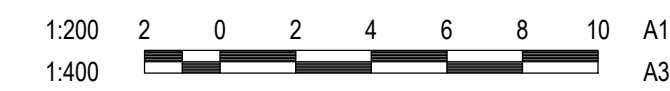
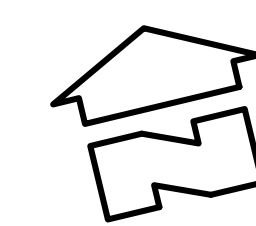
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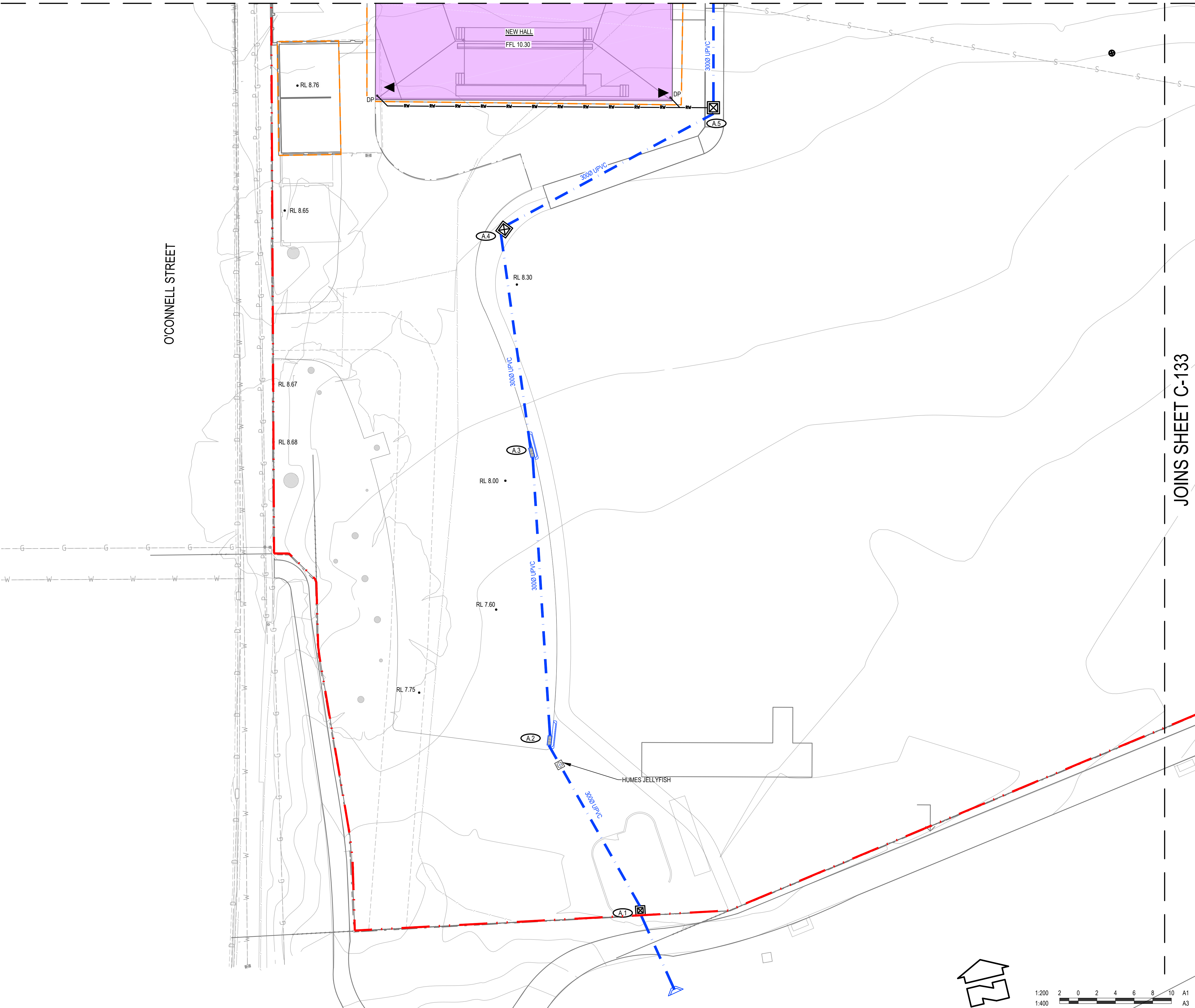
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28504-SYD	C-132	B

A1 DRAWING - BUILDING SERVICES GROUP

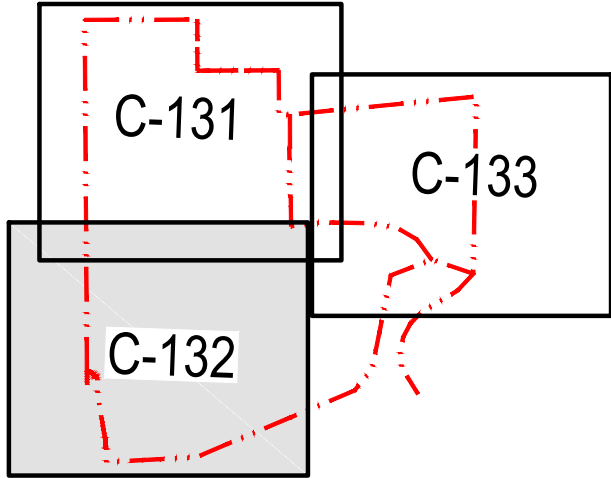


JOINS SHEET C-131



LEGEND

- PROPOSED SITE BOUNDARY
- PROPOSED BUILDING OVER
- ROOF OUTLINE
- PROPOSED STORMWATER PIPE
- PROPOSED RAINWATER PIPE
- RETAINING WALL TO STRUCTURAL ENGINEER DETAILS
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TITLE:
STORMWATER DRAINAGE
PLAN - SHEET 3

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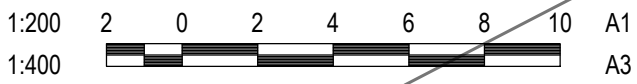
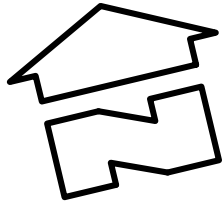
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PLOT DATE/TIME: 27/04/2016 3:06:07 PM

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A1 DRAWING - BUILDING SERVICES GROUP



STORMWATER PIT SCHEDULE			
PIT No.	PIT TYPE	SURFACE LEVEL	INVERT LEVEL
A.1	900 x 900 GRATED PIT	7.790	6.590
A.2	900 x 900 GRATED PIT	8.030	6.830
A.3	900 x 900 GRATED PIT	8.280	7.080
A.4	600 x 600 JUNCTION PIT	10.100	7.390
A.5	600 x 600 JUNCTION PIT	10.250	7.650
A.6	600 x 600 JUNCTION PIT	10.300	8.020
B.1	600 x 900 JUNCTION PIT	11.000	10.100
B.2	600 x 600 JUNCTION PIT	11.150	10.250
B.3	600 x 600 JUNCTION PIT	11.220	10.340
B.4	600 x 900 JUNCTION PIT	11.400	10.400
B.5	600 x 600 JUNCTION PIT	11.450	10.550
B.6	600 x 600 JUNCTION PIT	11.388	10.600
C.1	900 x 900 JUNCTION PIT	10.400	8.540
C.2	600 x 600 JUNCTION PIT	10.600	9.700
Ca.1	600 x 600 JUNCTION PIT	9.800	8.900
D.1	600 x 600 JUNCTION PIT	7.500	6.600
D.2	600 x 600 JUNCTION PIT	7.650	6.750
E.1	900 x 900 JUNCTION PIT	11.200	9.490
E.2	900 x 900 JUNCTION PIT	11.450	9.800
E.3	600 x 900 JUNCTION PIT	11.000	10.050
E.4	600 x 600 JUNCTION PIT	11.000	10.200
F.1	900 x 900 JUNCTION PIT	11.450	9.480
F.2	900 x 900 JUNCTION PIT	11.450	9.770
F.3	900 x 900 JUNCTION PIT	11.450	10.060
F.4	900 x 900 JUNCTION PIT	11.450	10.120
F.5	600 x 900 JUNCTION PIT	11.450	10.260
F.6	600 x 900 JUNCTION PIT	11.450	10.400
F.7	600 x 600 JUNCTION PIT	11.400	10.500
Fa.1	900 x 900 JUNCTION PIT	11.400	9.680
Fb.1	600 x 600 JUNCTION PIT	11.070	10.170
Fb.2	600 x 600 JUNCTION PIT	10.900	10.000

B	ISSUE FOR SSD APPROVAL	XC	IAH	27.04.16
A	ISSUE FOR COORDINATION	XC	IAH	04.04.16
REV.	DESCRIPTION	DRAWN	APPD	DATE

ARCHITECT:



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PERTH
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SYDNEY
BRIISBANE
GOLD COAST
ALBANY
BUSSELTON
SHEKSHEN
DARWIN

OLD KING'S SCHOOL

TITLE:
STORMWATER DRAINAGE
- INFORMATION TABLES

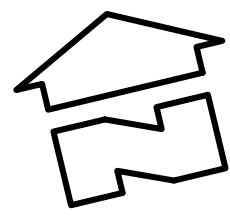
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SCALE :		APPROVED FOR CONSTRUCTION:	/ /

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PLOT/DATETIME: 27/04/2016 2:15:03 PM

PROJECT No.	DRAWING No.	REVISION
28504-SYD	C-135	B



LEGEND

206m²

PROPOSED SITE BOUNDARY

206m²

DRAINAGE CATCHMENT AREA

206m²

DRAINAGE CATCHMENT AREA TAG

B	ISSUE FOR SSD APPROVAL	XC	IAH	27.04.16
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REV.	DESCRIPTION	DRAWN	APPD	DATE

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TITLE:
STORMWATER CATCHMENT PLAN

PRELIMINARY
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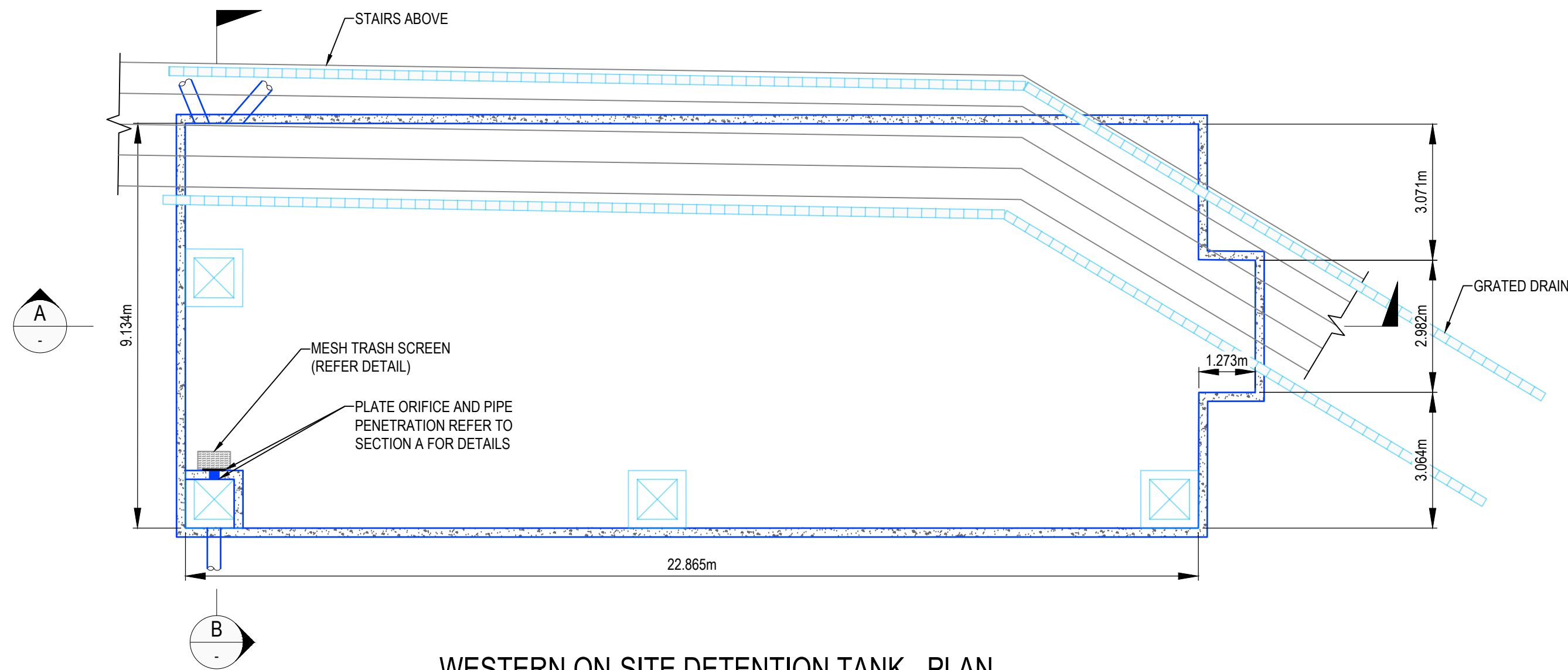
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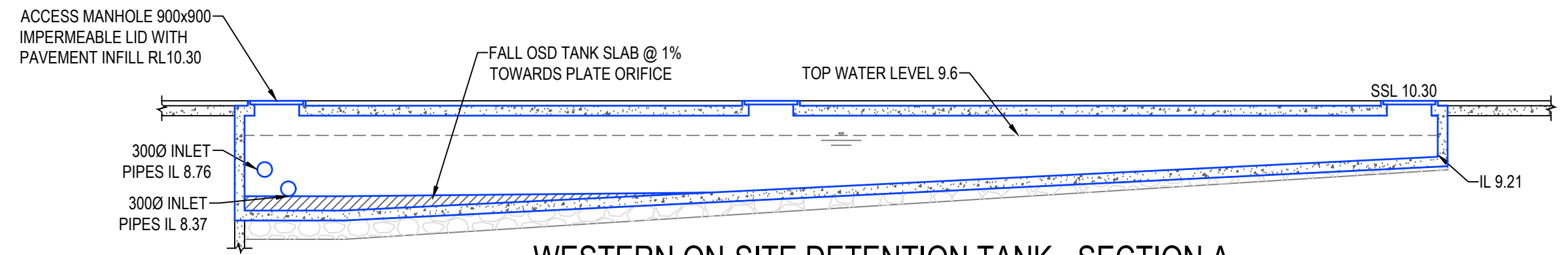
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PROJECT No.	DRAWING No.	REVISION
28504-SYD	C-137	B

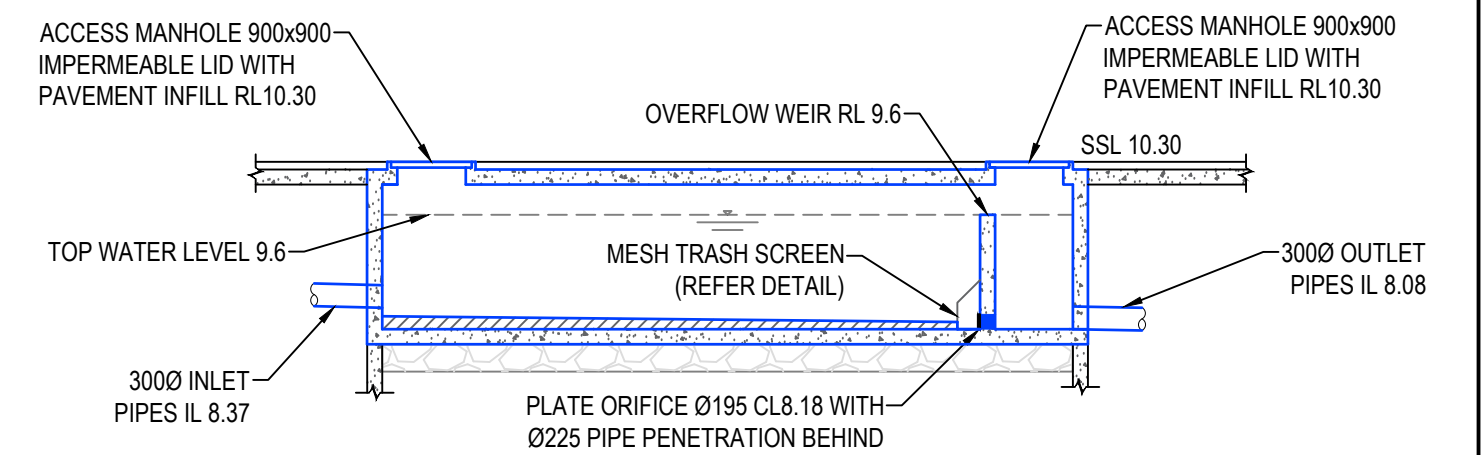
A1 DRAWING - BUILDING SERVICES GROUP



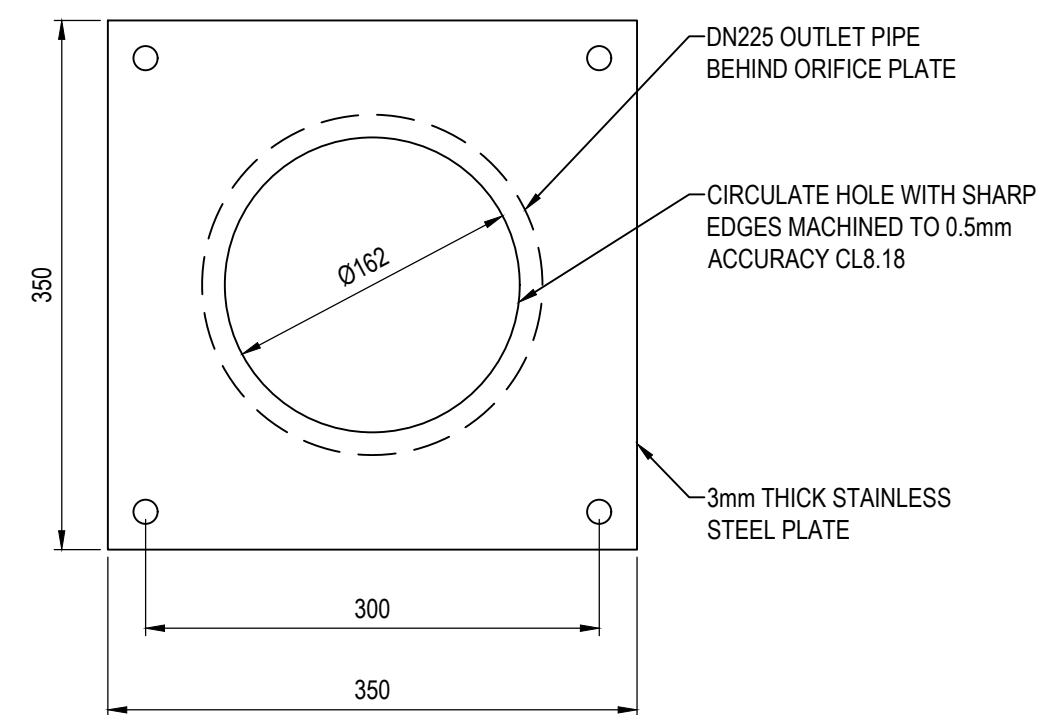
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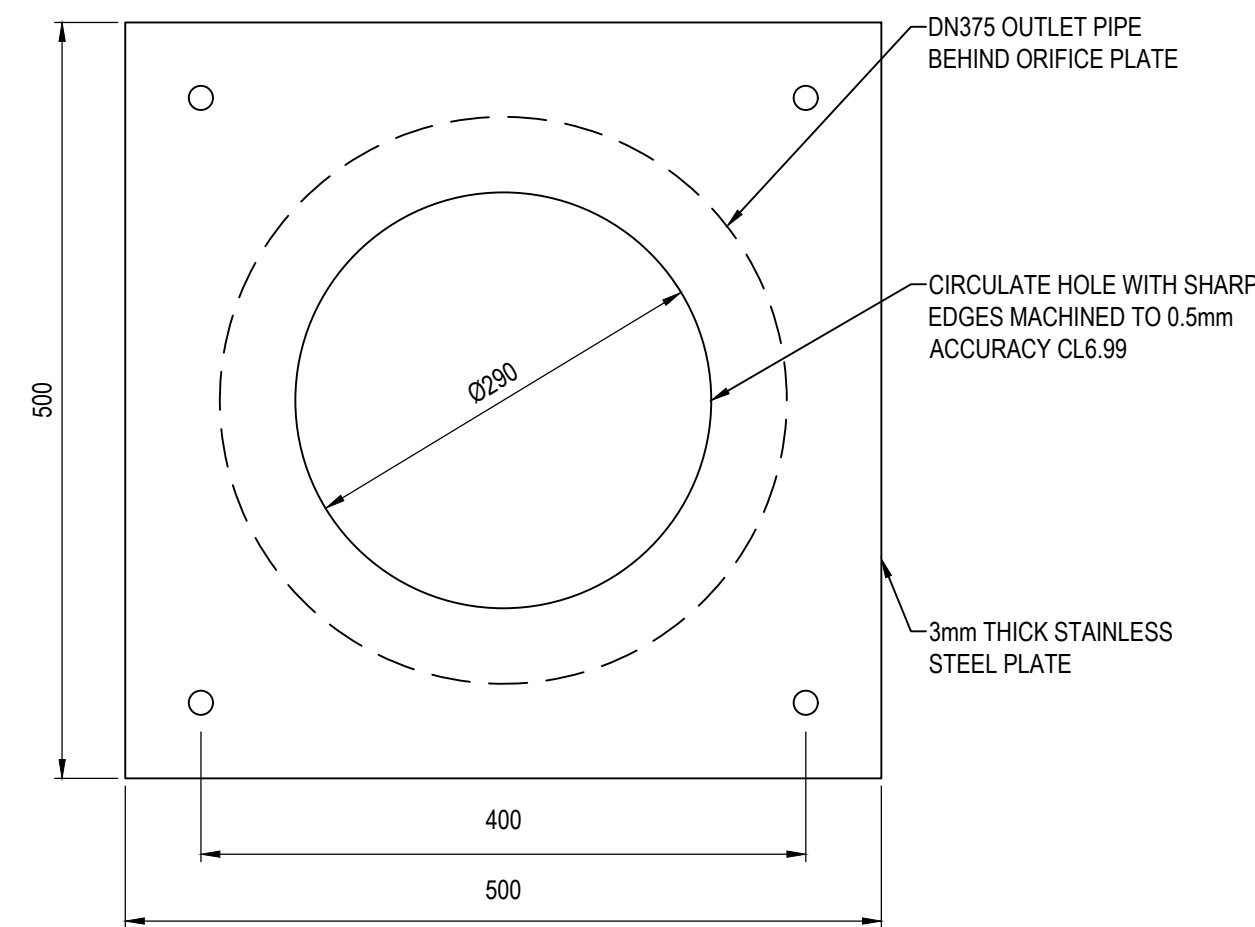
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(SCALE 1:100)



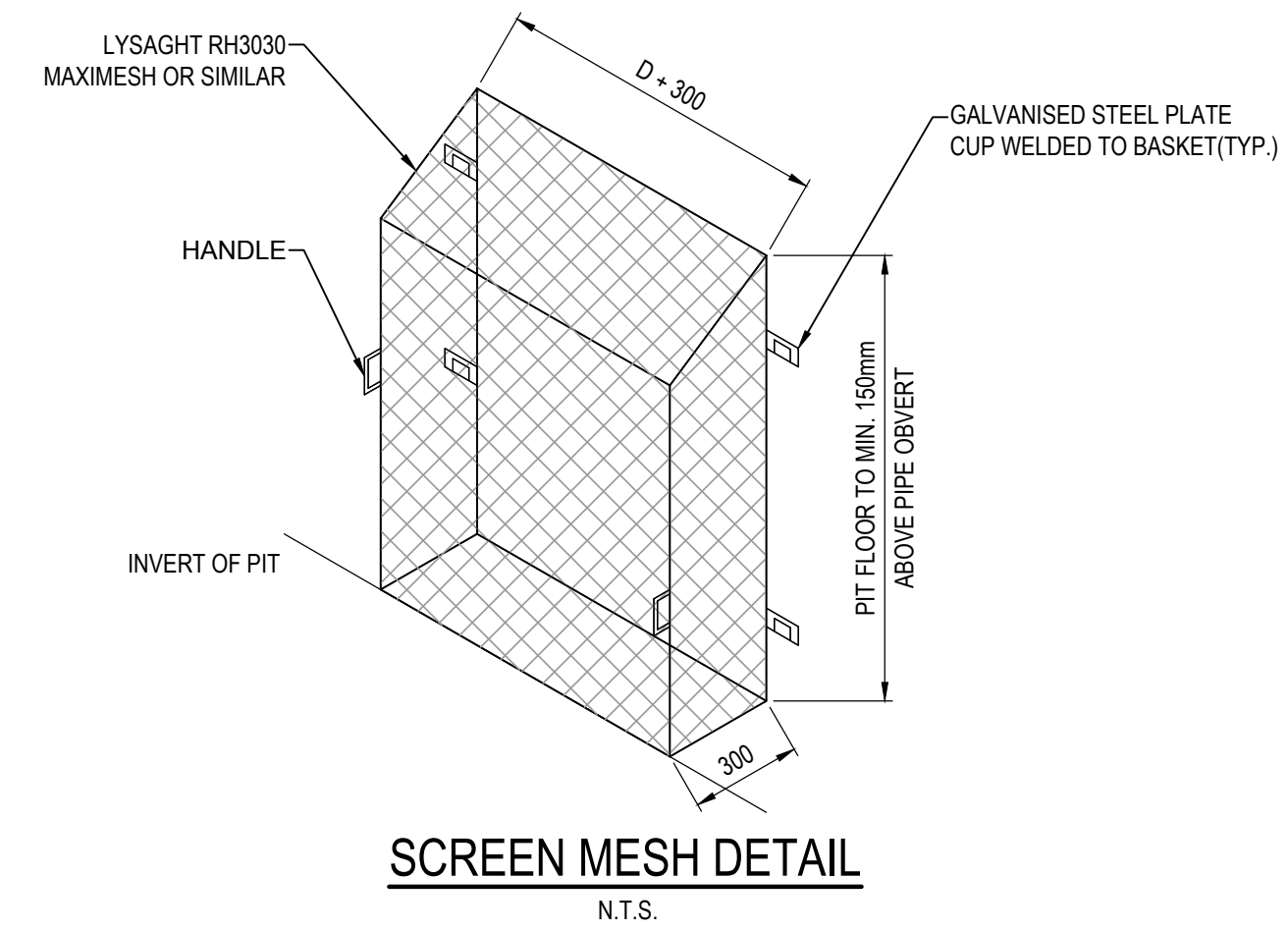
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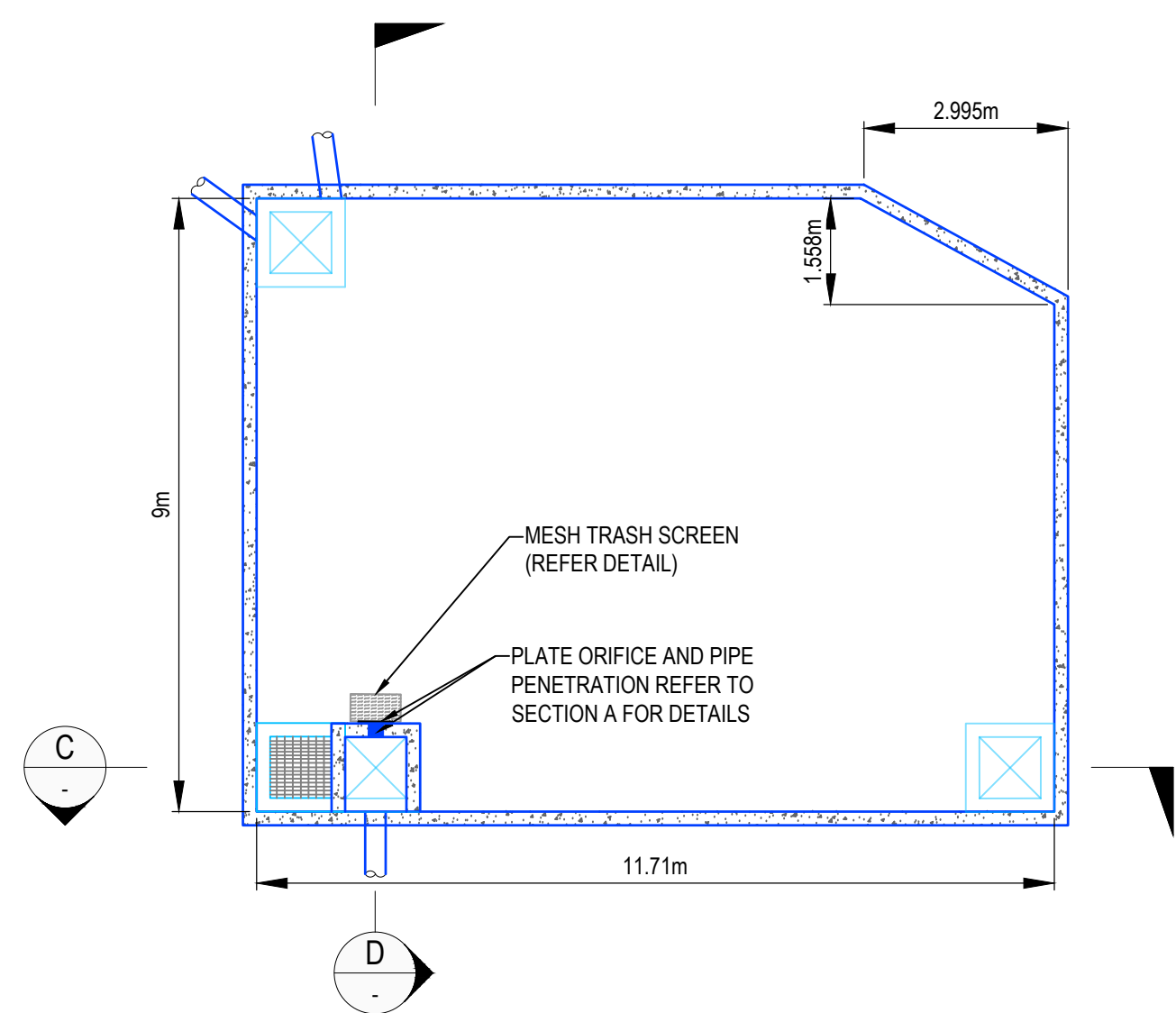
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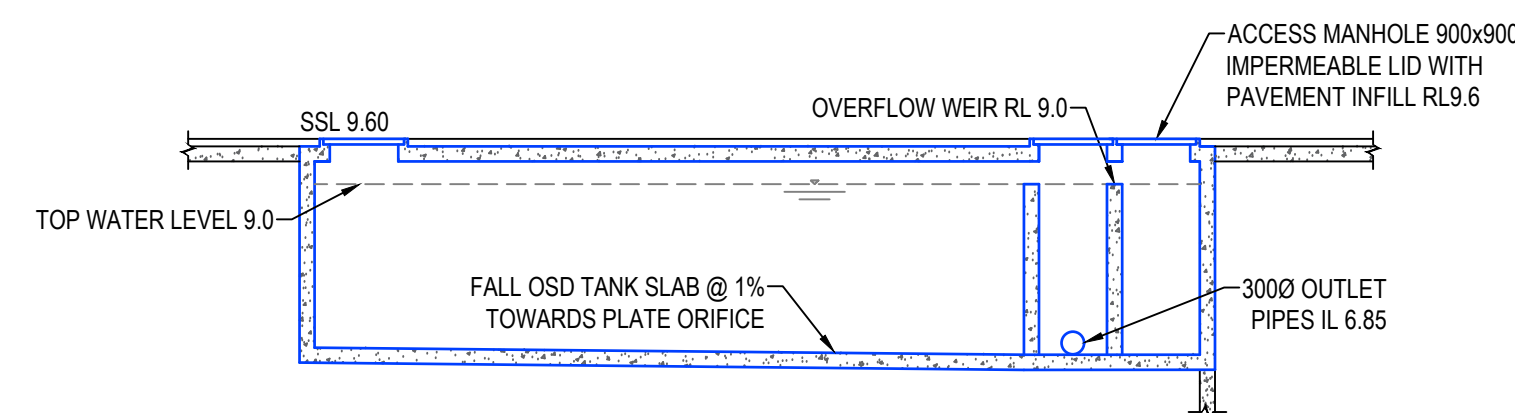
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SCALE 1:5



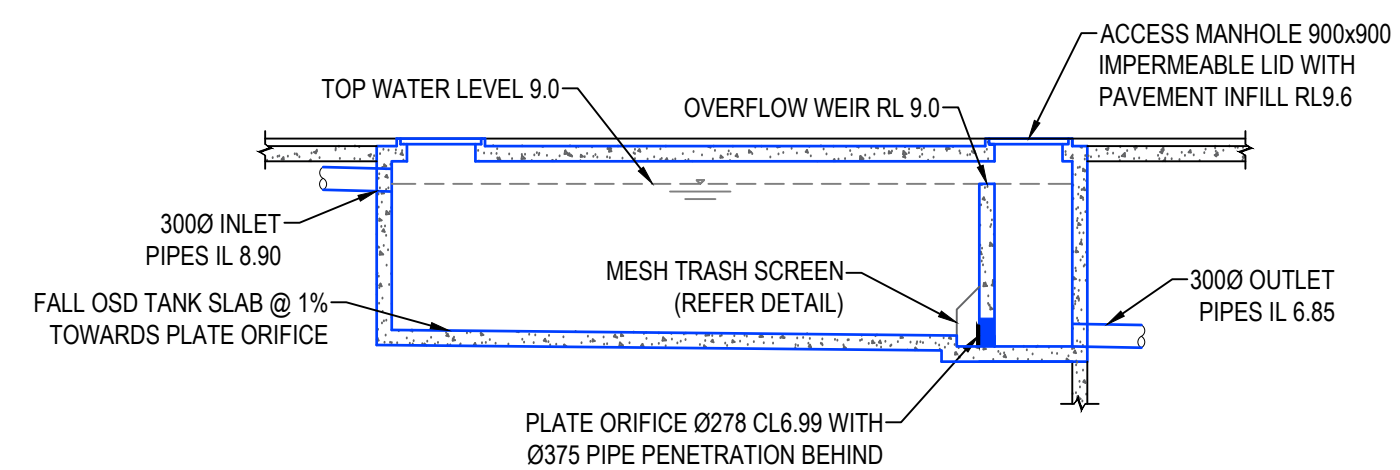
SCREEN MESH DETAIL
N.T.S.



EASTERN ON-SITE DETENTION TANK - PLAN
(SCALE 1:100)



EASTERN ON-SITE DETENTION TANK - SECTION C
(SCALE 1:100)



EASTERN ON-SITE DETENTION TANK - SECTION D
(SCALE 1:100)

REV.	DESCRIPTION	DRAWN	APPD	DATE
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OLD KING'S SCHOOL

TITLE: **ON-SITE DETENTION TANK DETAILS**

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SCALE:	APPROVED FOR CONSTRUCTION: / /

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PROJECT No.	DRAWING No.	REVISION
28504-SYD	C-138	B

A1 DRAWING - BUILDING SERVICES GROUP