

PIPEWORK SERVICES

DRENCHER	—D—D—D—
SEWER / SANITARY	—————
COLD WATER	— · · · — · · · —
GAS	— · · · — · · · —
FIRE SERVICE	— · · · — · · · —
DRAINAGE VENT	— · · · — · · · —
HOT WATER FLOW	— · · · — · · · —
HOT WATER RETURN	— · · · — · · · —
FIRE SPRINKLER SERVICE	—SP—SP—SP—SP—
TRADE WASTE	— · · · — · · · —
STORMWATER	—————
WARM WATER FLOW	—WWF—WWF—WWF—
WARM WATER RETURN	—WWR—WWR—WWR—
SUB SOIL	— / — / —
FIRE HYDRANT	—FH—FH—FH—
FHR	—FHR—FHR—FHR—
NON POTABLE WATER	—NP—NP—NP—NP—
PUMP DISCHARGE	—PD—PD—PD—PD—
PUMP SUCTION	—PS—PS—PS—PS—
COMMON COLD WATER SERVICE	—CWS—CWS—CWS—
SEWER RISING MAIN	—SRM—SRM—SRM—
SUB SOIL RISING MAIN	—RM—RM—RM—
DIESEL EXHAUST	—DE—DE—DE—DE—
RECYCLED COLD WATER	—RCW—RCW—RCW—
SOLAR HOT WATER FLOW	—SHWF—SHWF—SHWF—
SOLAR HOT WATER RETURN	—SHWR—SHWR—SHWR—
WATER MAIN	—W—
GAS MAIN	—G—G—G—G—
SEWER MAIN	—S—S—S—S—

EXISTING COLD WATER	—ecw—ecw—ecw—
EXISTING HOT WATER	—ehw—ehw—ehw—
EXISTING FIRE HYDRANT	—efh—efh—efh—
EXISTING FHR	—efhr—efhr—efhr—
EXISTING WARM WATER	—eww—eww—eww—
EXISTING STORM WATER	—esw—esw—esw—
EXISTING SUBSOIL	—ess—ess—ess—
EXISTING GAS	—eg—eg—eg—eg—
EXISTING VENT	—ev—ev—ev—ev—
EXISTING SEWER	—es—es—es—es—

EXISTING SEWER DISUSED	—X—es—X—es—
EXISTING SW DISUSED	—X—esw—X—esw—
EXISTING GAS DISUSED	—X—eg—X—eg—
EXISTING CW DISUSED	—X—ecw—X—ecw—

MISCELLANEOUS LINE TYPES

ELECTRICAL	—E—E—E—
TELECOM	—T—T—T—
OTHER	—O—O—O—
WINDOW DRENCHER	—D—D—D—

SYMBOLS

II	FLANGED JOINT
TD	TUNDISH
PRV	PRESSURE SWITCH
PRV	RATIO REDUCTION VALVE
PRV	PRESSURE REDUCTION VALVE
TV	THERMOSTATIC MIXING VALVE
WM	TEMPERING VALVE
WM	WATER METER
CWM	COLD WATER METER
HWM	HOT WATER METER
GM	GAS METER
X	LOOSE JUMPER CONTROL VALVE
X	CHECK VALVE OR NON RETURN VALVE
KK	DOUBLE CHECK VALVE
KKK	REDUCED PRESSURE ZONE DEVICE
AAV	AIR ADMITTANCE VALVE
X	BALL VALVE
X	GATE
X	BALANCING VALVE
X	FLOAT VALVE
X	AIR RELIEF VALVE
X	SOLENOID VALVE
X	MONITORING VALVE
X	OVER PRESSURE SHUT OFF VALVE
L	REFLUX VALVE
L	STRAINER
X	VALVE AND CAST IRON SURFACE BOX
FHR	EXPANSION JOINT
FHR	HYDRANT BOOSTER VALVE ASSEMBLY
FHR	FIRE HOSE REEL
FHR	FIRE HYDRANT
FHR	STREET FIRE HYDRANT
FHR	DOUBLE PILLAR FIRE HYDRANT
FHR	PORTABLE FIRE EXTINGUISHER - FOAM
FHR	PORTABLE FIRE EXTINGUISHER CARBON DIOXIDE (CO2)
FB	FIRE BLANKET
F	FLOW DIRECTION
C	CAPPED END
ecw	CONNECTION TO EXISTING SERVICE
O	PIPE RISER
C	PIPE DROPPER

SYMBOLS CONT.

SUMP	INSPECTION PIT
GRATED STORMWATER PIT	STORMWATER PIT WITH SEALED LID
KIP	KERB INLET PIT
GRATED DRAIN	SEWER MANHOLE
SMH	DRINKING FOUNTAIN
CONTROL PANEL	CONTROL PANEL (BY OTHERS)
COALESCING PLATE INTERCEPTOR	CONTINUED ON DRAWING NO.
OVERLAND FLOW PATH	RELATIVE LEVEL
PROPOSED LEVEL	PUMP
PUMP	GAS BAYONET
GB	HOSE TAP
HT	TAP
B0	BALCONY OUTLET
RWO	RAINWATER OUTLET
FW	FLOOR WASTE
PD	PLANTER DRAIN
CO	CLEAROUT
BT	BOUNDARY TRAP
IS	INSPECTION SHAFT
BA	BASKET ARRESTOR (BUCKET TRAP FLOOR WASTE)
OFG	OVERFLOW GULLY
OF	RAIN WATER HEAD
RWH	OVERFLOW
25L HWU	25L HWU
50L HWU	50L HWU
DUAL PUMPS	CW PUMP ARRANGEMENT
GREASE ARRESTOR	ZIP FLUSH MASTER

MISCELLANEOUS SYMBOLS

SERVICE	PIPE SIZE
RL 31.80	RELATIVE LEVEL
Q= L/s	QUANTITY IN LITRES PER SECOND
FU 588	FIXTURE UNIT
FIXTURE No	
A	DETAIL No or Letter
H**	DRAWING No on which the detail is shown
WALL PENETRATION	

FIXTURES & FITTINGS ABBREVIATIONS

AT	AUTOPSY TABLE
B	BATH
BAR SK	BAR SINK
BPS	BED PAN STERILISER
BID	BIDET
BWU	BOILING WATER UNIT
CS	CLEANERS SINK
CUS	CUSPIDOR
DF	DRINKING FOUNTAIN
DTU	DRAINAGE TURN UP
DW	DISHWASHER
FC	FUME CUPBOARD
FW	FLOOR WASTE
GS	GARBAGE SUMP
HB	HAND BASIN
HT	HOSE TAP
HWU	HOT WATER UNIT
KS	KITCHEN SINK
NPHT	NON POTABLE HOSE TAP
SPA	SPA
SH	SHOWER
SK	SINK
T	TUB
TD	TUNDISH
UR	URINAL
VB	VANITY BASIN
WM	WASHING MACHINE
WC	WATER CLOSET

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
A/C	AIR CONDITIONING
AD	AERIAL DRAINAGE
AGL	AUSTRALIAN GAS LIGHT COMPANY
AHD	AUSTRALIAN HEIGHT DATUM
BA	BASKET ARRESTOR
BO	BALCONY OUTLET
Br	BRASS
BT	BOUNDARY TRAP
CI	CAST IRON
CD	CONDENSATE DRAIN
CP	CONTROL PANEL
CO	CLEAROUT
CPI	COALESCING PLATE INTERCEPTOR
CRV	CROSS RELIEF VENT
Cu	COPPER
CV	CONTROL VALVE
CVP	CHAMBER VENT PIPE
CW	COLD WATER
CWCV	COLD WATER CONTROL VALVE
CWM	COLD WATER METER
CWS	COLD WATER SERVICE (COMMON)
DE	DIESEL EXHAUST
DCV	DOUBLE CHECK VALVE
DDO	DISH DRAIN OUTLET
DICL	DUCTILE IRON CEMENT LINED
DP	DOWN PIPE
ecw	EXISTING COLD WATER
edp	EXISTING DOWNPIPE
efh	EXISTING FIRE HYDRANT
efhr	EXISTING FIRE HOSE REEL
egvp	EXISTING GREASE VENT PIPE
ehw	EXISTING HOT WATER
EJ	EXPANSION JOINT
es	EXISTING SEWER
esw	EXISTING STORMWATER
evp	EXISTING VENT PIPE
ew	EYE WASH
EX	EXISTING
F.A.	FROM ABOVE
F.B.	FROM BELOW
FFL	FINISHED FLOOR LEVEL
FH	FIRE HYDRANT
FHR	FIRE HOSE REEL
FRC	FIBRE REINFORCED CONCRETE
FU	FIXTURE UNITS

ABBREVIATIONS

G	GAS
GA	GREASE ARRESTOR
GF	GAS FLUE
GMS	GALVANISED MILD STEEL
GVP	GREASE VENT PIPE
GWS	GREASE WASTE STACK
HBV	HYDRANT BOOSTER VALVE
H/L	HIGH LEVEL
HW	HOT WATER
HWF	HOT WATER FLOW
HWR	HOT WATER RETURN
IL	INVERT LEVEL
IPMF	INDUCT PIPE MICA FLAP
KIP	KERB INLET PIT
L/L	LOW LEVEL
MH	MANHOLE
NRV	NON RETURN VALVE
OF	OVERFLOW
OFG	OVERFLOW GULLY
OPSO	OVER PRESSURE SHUTOFF VALVE
PE-NY	POLYETHYLENE NYLON MAIN
PO	PLANTER OUTLET
PSS	PROVISIONAL SOIL STACK
RCP	REINFORCED CONCRETE PIPE
RCV	RECESSED CONTROL VALVE
RL	REDUCED LEVEL
RO	ROOF OUTLET
RPZD	REDUCED PRESSURE ZONE DEVICE
RV	RELIEF VENT
RWO	RAINWATER OUTLET
SD	SLUDGE DRAIN
SDS	SPRINKLER DRENCHER SYSTEM
SIP	SURFACE INLET PIT
SMH	SEWER MANHOLE
SP	SOIL PIPE
SRO	SIDE ROOF OUTLET
SS	SOIL STACK
SSRM	SUB-SOIL RISING MAIN
STD	SPRINKLER TEST DRAIN
SV	STOP VALVE
SWP	STORMWATER PIT
SYW	SYDNEY WATER
T.A.	TO ABOVE
T.B.	TO BELOW
TMV	THERMOSTATIC MIXING VALVE
U/S	UNDERSIDE
UPVC	POLYVINYL CHLORIDE
VP	VENT PIPE
VCP	VITRIFIED CLAY PIPE
WP	WASTE PIPE
WS	WASTE STACK

NOTES:

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SERVICE

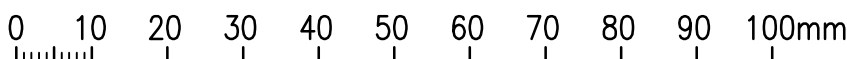
HYDRAULIC SERVICES

DRAWING TITLE

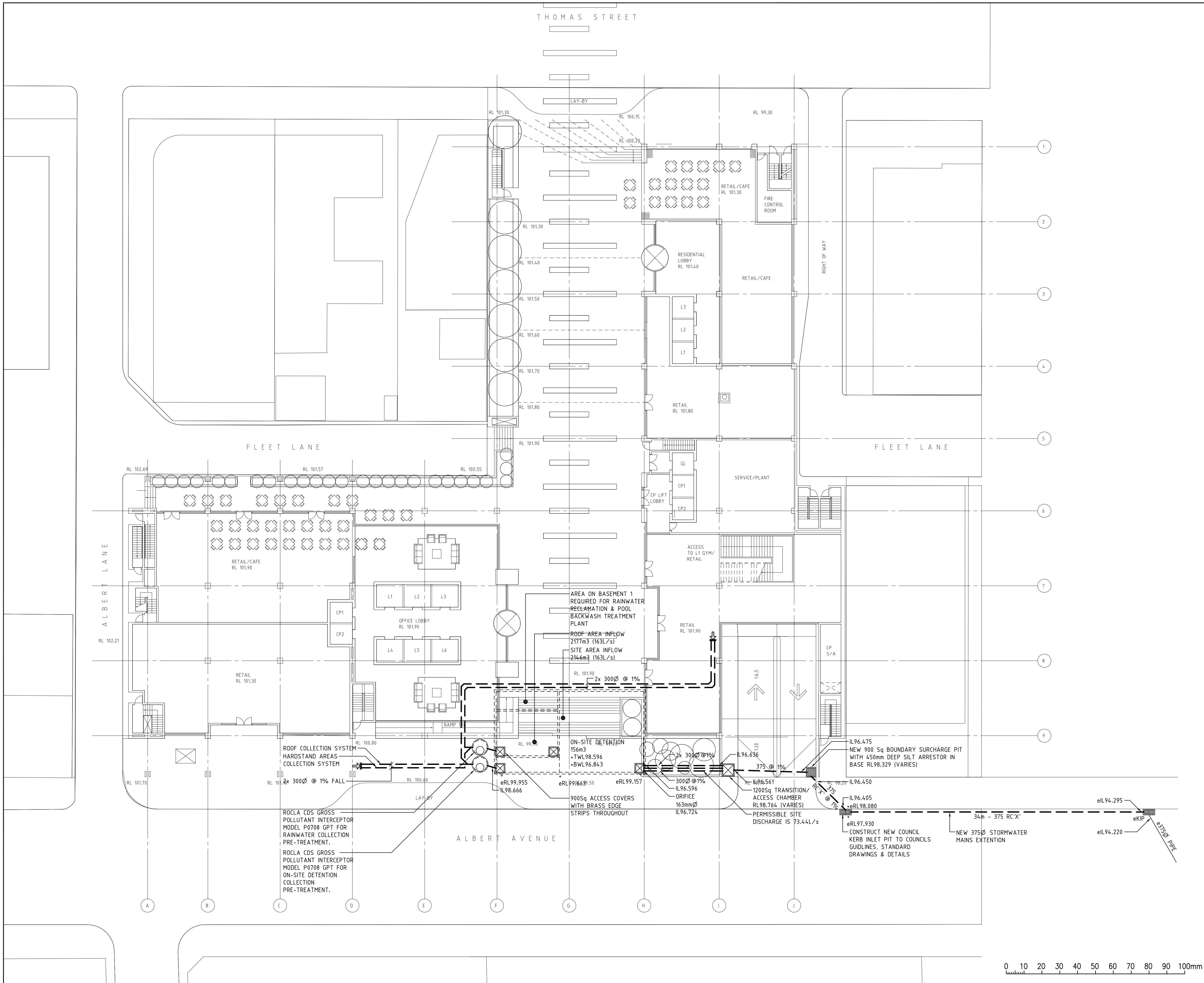
LEGEND & DRAWING SCHEDULE

DRAWN	ENGINEER
DR	JA
CHECKED	DATE STARTED
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	P1

DWG. No	TITLE
H01	LEGEND AND DRAWING SCHEDULE
H02	SITE PLAN
H03	BASEMENT 6 PLAN
H04	BASEMENT 5 PLAN
H05	BASEMENT 1 PLAN
H06	GROUND FLOOR PLAN
H07	ROOF PLAN
H08	DETAIL SHEET 1 ON-SITE DETENTION CONTROL DETAILS
H09	DETAIL SHEET 2 RAINWATER RECLAMATION CONTROL DETAILS
H10	DETAIL SHEET 3
H11	DETAIL SHEET 4
H12	SEDIMENTATION, EROSION CONTROL & CATCHMENT PLAN



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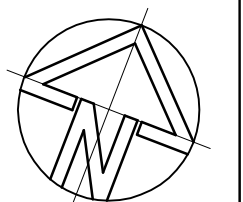
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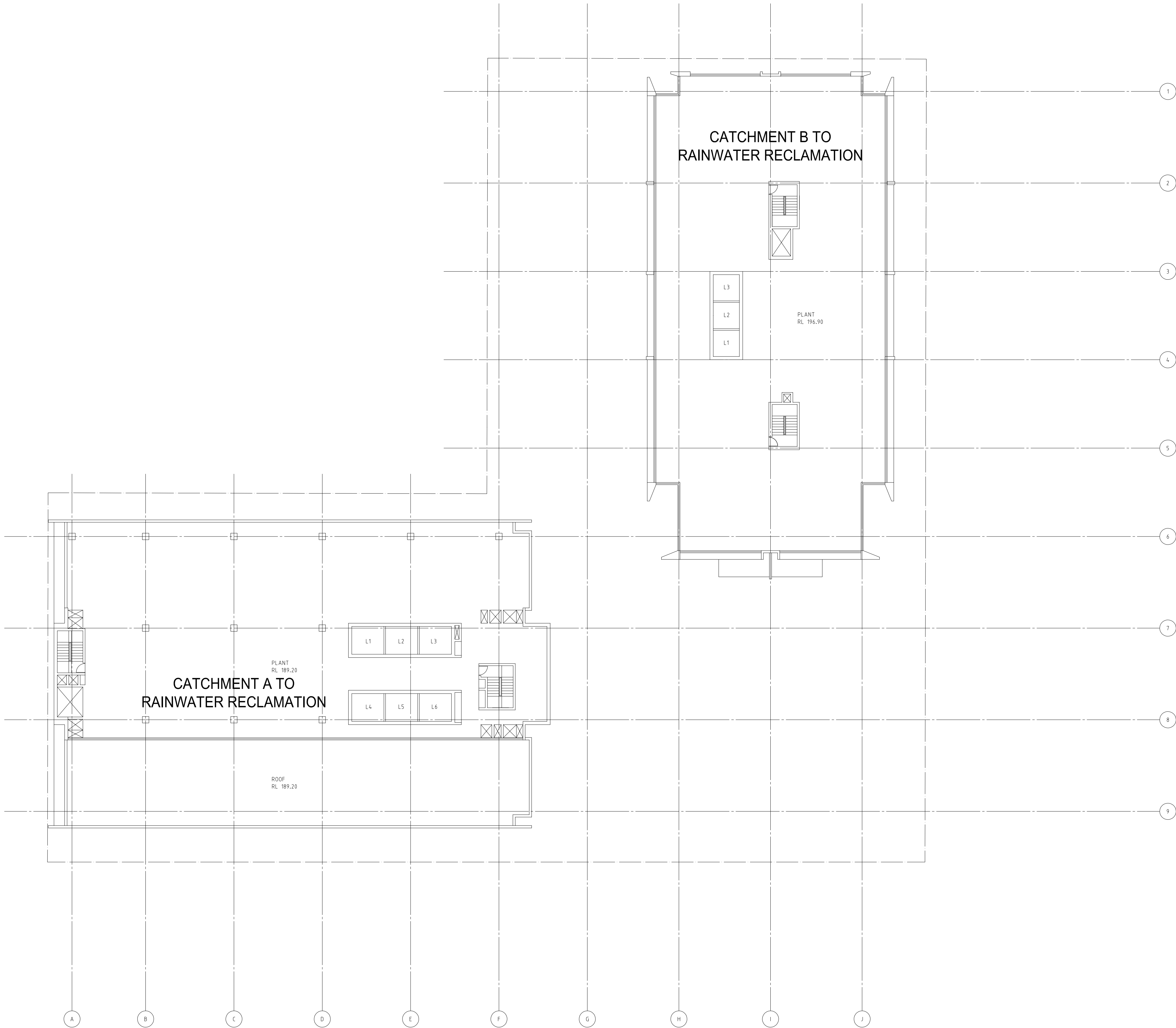


HYDRAULIC SERVICES

GROUND FLOOR PLAN

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DR	JA
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	OCT 2009
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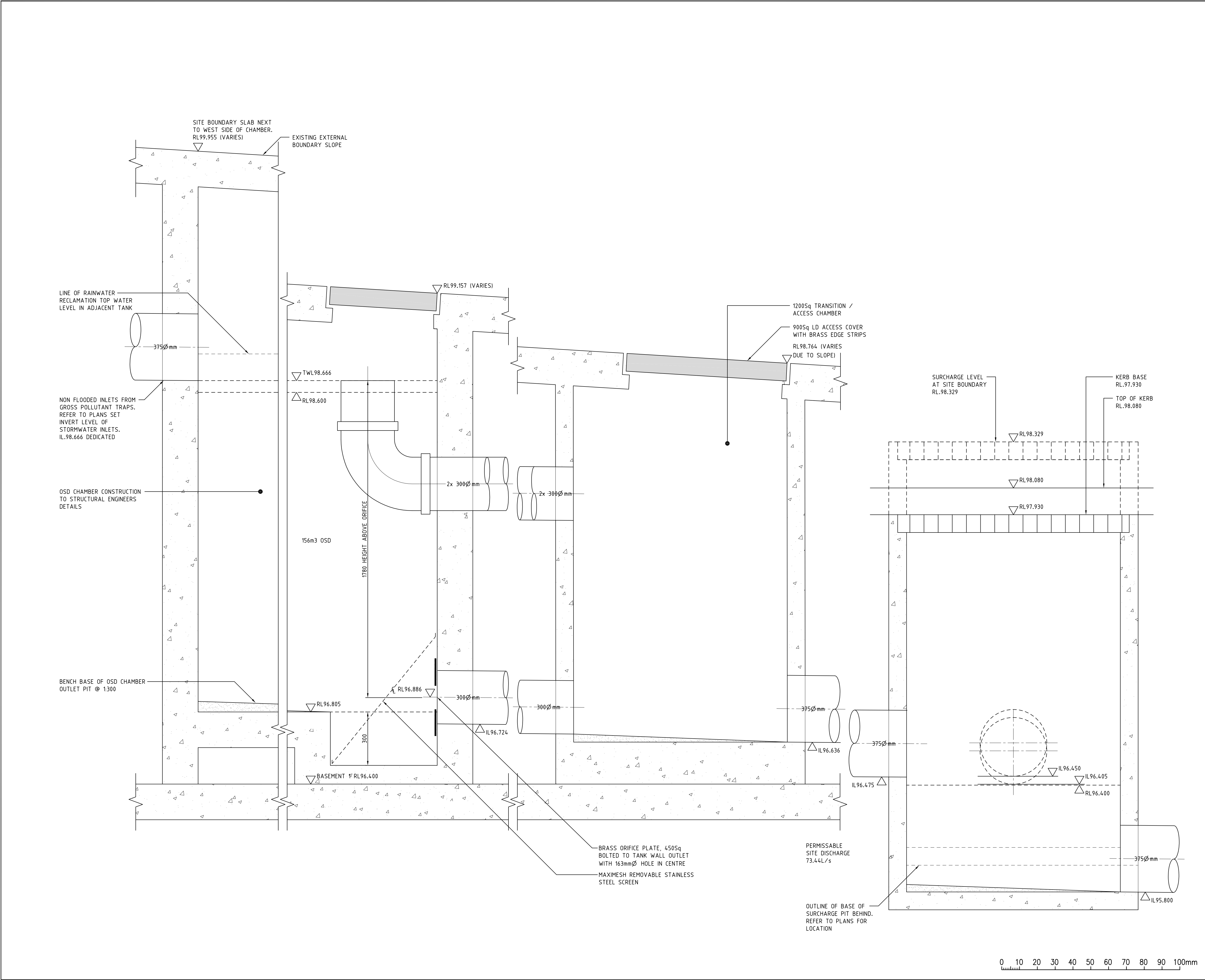
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ROOF PLAN

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DR	JA	
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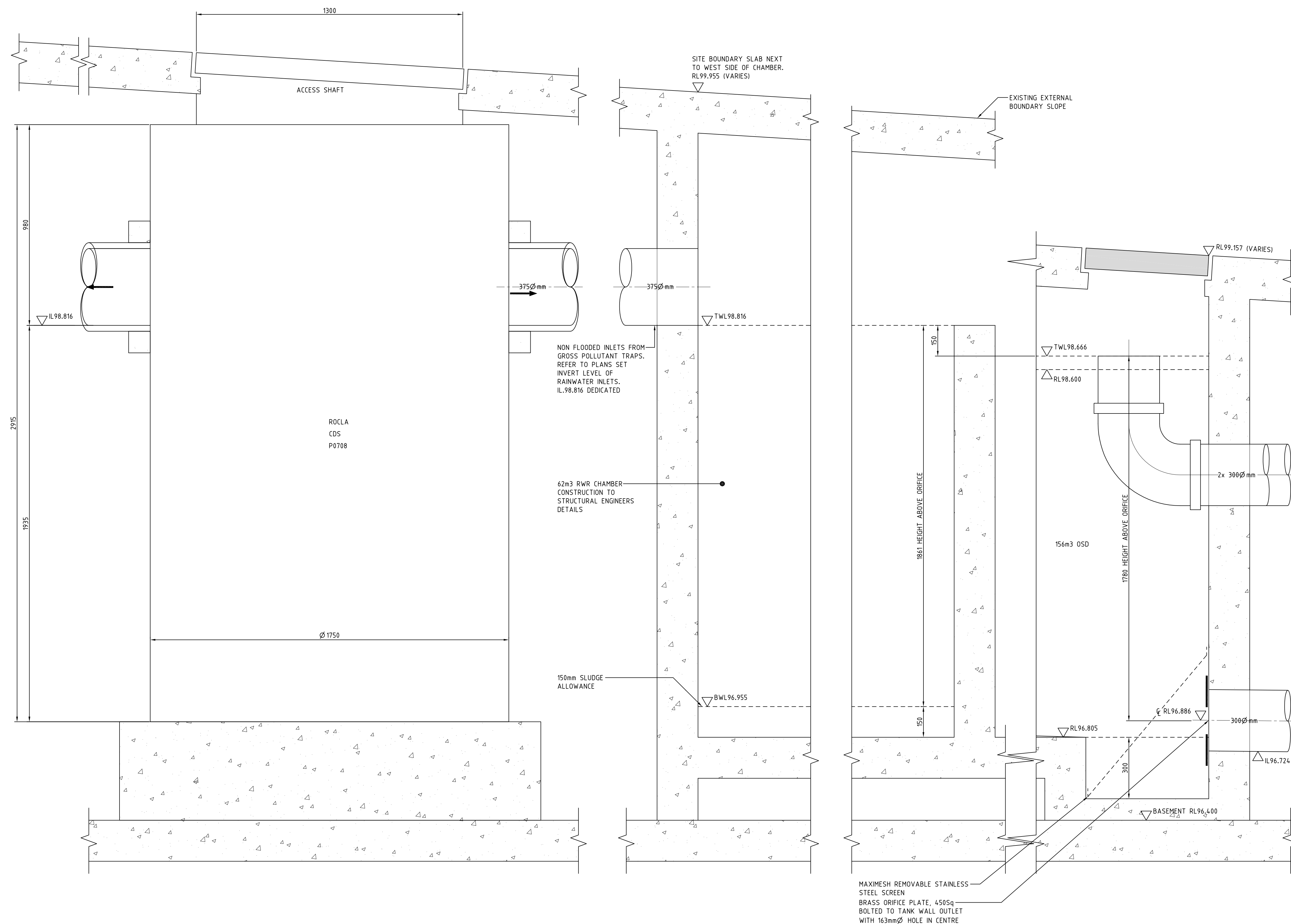
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DETAIL SHEET 1
ON-SITE DETENTION
CONTROL DETAILS

DR JA
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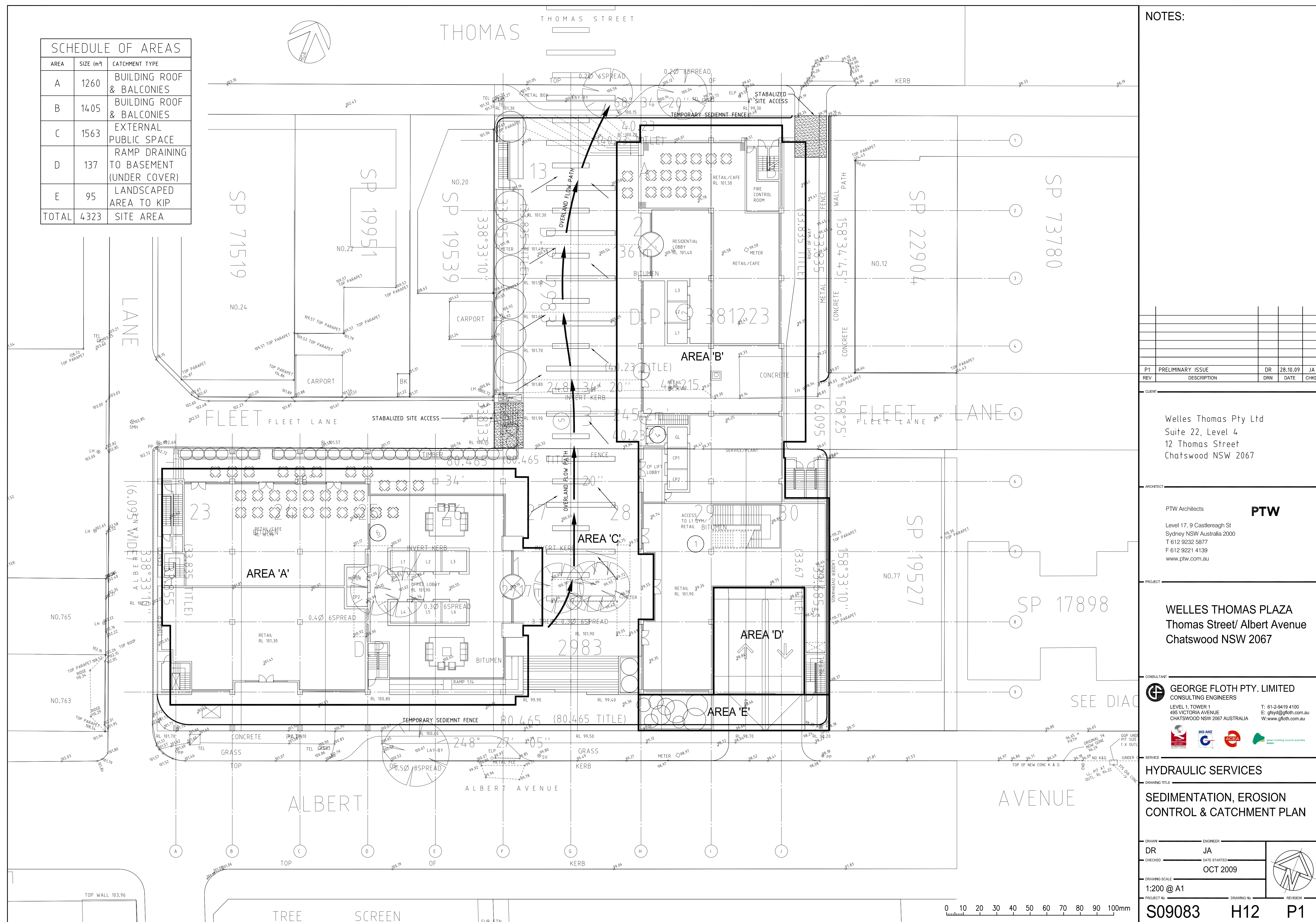
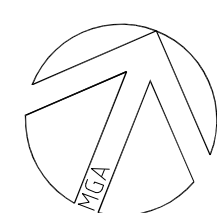
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HYDRAULIC SERVICES

SCHEDULE OF AREAS		
AREA	SIZE (m²)	CATCHMENT TYPE
A	1260	BUILDING ROOF & BALCONIES
B	1405	BUILDING ROOF & BALCONIES
C	1563	EXTERNAL PUBLIC SPACE
D	137	RAMP DRAINING TO BASEMENT (UNDER COVER)
E	95	LANDSCAPED AREA TO KIP
TOTAL	4323	SITE AREA



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HYDRAULIC SERVICES

SEDIMENTATION, EROSION CONTROL & CATCHMENT PLAN

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DR _____		JA _____		
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