# 



## LEGEND

	NDICATES	PIPE	RISEF	35
	NDICATES	SERVI	CE T	YPE
	NDICATES	SERVI	CE S	ZE
	INDICATES	PIPE	DROF	PER
5	HYDRAULIC	RISER	₹ NU	MBEI
	DETAIL NUI DRAWING N		R	

#### PIPELINES

	EXISTING SERVICE
· · · · × · · · · · × · · · · × · · · ·	EXISTING REDUNDANT SERVICE TO BE DISCONNECTED & REMOVED
STW	STORMWATER DRAINAGE
——— ss——	SUBSOIL DRAINAGE
5	SANITARY DRAINAGE
VP	VENT PIPE
cw	COLD WATER
HWF -	HOT WATER FLOW
HWR	HOT WATER RETURN
	WARM WATER
	HOT WATER WITH HEATING Cable
NG	NATURAL GAS
FH	FIRE HYDRANT SERVICE
NPCW	NON POTABLE COLD WATER
	LANDSCAPE WATERING
	LANDSCAPE STORMWATER LINE

# **ABBREVIATIONS**

4	
wc	WATER CLOSET
втн	BATH
8	BASIN
SHR	SHOWER
т	LAUNDRY TUB
sk	SINK
DW	DISHWASHER
WM	WASHING MACHINE
RH	GAS ROOM HEATER CONNECTIO
СН	WATER CHILLER UNIT
BWU	BOILING WATER UNIT
DF	DRINKING FOUNTAIN
BFFL	BELOW FINISHED FLOOR LEVEL
FFL	FINISHED FLOOR LEVEL
HL	HIGH LEVEL
IL	INVERT LEVEL
RL	REDUCED LEVEL
us	UNDERSIDE
ss	SOIL STACK
ws	WASTE STACK
DP	DOWN PIPE
cis	CAST INTO SLAB
CIC	CAST INTO COLUMN
IV	INDUCT VENT

VARIETY OF TYPICAL TOWNHOUSE TYPE

#### SYMBOLS

	STOP / ISOLATION VALVE
	GAS STOP VALVE
	HOT WATER BALANCING VALVE
<b></b>	SOLENOID VALVE
<del></del>	VALVE IN CAST IRON PATH BOX
	THERMOSTATIC MIXING VALVE
——————————————————————————————————————	CHECK & NON RETURN VALVE
	REFLUX VALVE IN PATH BOX
	WATER PRESSURE LIMITING VALVE
	REDUCED PRESSURE ZONE DEVICE
<del></del> &	GAS REGULATOR
-₩-G₩-G-O	FLOAT VALVE
_о+ нт	HOSE TAP WITH ISOLATION VALVE
+ <del>/+</del> WF	WATER FILTER
	DROP TO OR RISE FROM
0	RISE TO OR DROP FROM
	SERVICE CONTINUATION
	DIRECTION OF FLOW
	CONDUIT
FH	STREET FIRE HYDRANT
-bd- <u></u> bd-	WATER METER ASSEMBLY
÷% <mark>⊡</mark> ₩	GAS METER & REGULATOR ASSEMBLY
M	FLEXIBLE PIPE CONNECTION TO PUMP
	FLOW DIRECTIONAL ARROWS ON

1 - TYPE 1

3 - TYPE 3

2 - 22 STRATA DWELLINGS

	<b>-</b>	PUMP
LWCP	H	LANDSCAPE WATER CONTROL UNI
GB	<u>B</u>	GAS BAYONET
HP	<b>⊶</b> 4 ≿	GAS HOT PLATE
CP		CONTROL PANEL
wн		WATER HEATER
RWO	Ø	RAIN WATER OUTLET
PBRWO	Ø	PLANTER BOX RAIN WATER OUTLE
OF		FAIL SAFE BALCONY OVERFLOW
CO	φ	CLEAR OUT
		LONGITUDAL GRATED DRAIN
	The state of the s	STORM WATER PIT
		GRATED KERB INLET PIT
FW	•	RIMO FLOOR WASTE
TD	D	TUN DISH
вт	瓦	BOUNDARY TRAP

OVERFLOW GULLY

PIPE INSULATION

ACOUSTIC ZONE

INSPECTION OPENING

BED 1	LANDING ENSUI	
		ВАПУ
GARAGE	LIVING	

## DRAWINGS SHEDULE

DRAWING No	SCALE	DRAWING NAME
DH-00	NTS	COVER SHEET, LEGEND AND DRAWING SHEDULE
DH-01	NTS	WATER CYCLE DIAGRAM
DH-02	1:500	SITE PLAN - SEWER
DH-03	1:500	SITE PLAN - WATER AND GAS
DH-04	1:500	SITE PLAN - FIRE SERVICES
DH-05	1:500	SITE PLAN - WATER FEATURE
DH-06	1:100	TYPICAL HOUSE 1 - SEWER, WATER AND GAS SERVICES
DH-07	1:100	TYPICAL HOUSE 1 - STORMWATER SERVICES
DH-08	1:100	TYPICAL HOUSE 2 - SEWER, WATER AND GAS SERVICES
DH-09	1:100	TYPICAL HOUSE 3 - SEWER, WATER AND GAS SERVICES
DH-10	N.T.S	GRAY WATER TANK
DH-11	N.T.S	DETAIL SHEET

- THIS PLAN SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER SERVICES CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR DECISION BEFORE
- ALL FEES AND CHARGES ASSOCIATED WITH
- ALL WORK SHOWN BE IN ACCORDANCE TO MEET WITH THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
- CONFIRM LOCATION SIZE AND LEVELS OF ALL EXISTING SERVICES MAINS WITH
- DISCONNECT AND REMOVE ALL EXISTING REDUNDANT SERVICES TO AUTHORITIES
- PIPE LINES SHOWN DIAGRAMMATIC FOR CLARITY, FINAL LOCATION & ROUTE TO BE
- REFER TO GEOTECHNICAL REPORT FOR

P3	REVIEW	/		AM	AT	20.08.04
P2	REVIEW	/		AM	AT	12.07.04
P1	PRELIM	INARY ISSI	JË	AM	ΑT	17.06.04
REV		ISSUE		BY	CKD	DATE
SCHED	ULE OF RE	FERENCE FILE	s	TK	QA	SYSTEM
DISCIP	LINE	DRG NO.	REV	RE	:ASON	FOR ISSUE
ARCHI	TECTURAL	19.05.04				
STRUC	TURAL	7777			AUTHO	DRISATION
MECHA	NICAL			BY:		
ELECT	RICAL					ATION OF
OTHER	s	CIVIL		LA	TEST	AMENDMENT
			$\overline{}$	lev.		

#### HYDRAULIC ENGINEERS:

#### thomsonkane

Consulting Hydraulic and Fire Engineers 281 Pacific Highway, North Sydney NSW 2060 Phone:(02) 9955 0788 Fax:(02) 9954 5532 Email: tk@thomsonkane.com.eu WWW,THOMSONKANE.COM.AU ACN 109 803 849

## ARCHITECTS:

## Denis Leech Associates P/L

350 George Street, Sydney NSW 2000 Tel: (02) 9997 7288 Fox: (02) 9997 3164

## MASTER PLANNING:

## Wolski, Lycenko & Brechnock

115 Military Road, Neutral Boy NSW 2089 Tel: (02) 9953 8477 Fox: (02) 9953 8557

## ELECTRICAL:

## WEBB

37 Ryde Road, Pymble NSW 2073 Tel: (02) 9418 1444 Fax: (02) 9418 1191

#### WP Brown & Partners Pty Ltd Level 2, 82 Waterloo Road

Macquarie Park NSW 2113 Tei: (02) 9900 1000 Fax: (02) 9900 1099

Place Planning & Design P/L Suite 10, Norberry Terrace, 177 Pacific Hwy North Sydney NSW 2060 Tel: (02) 9959 5021 Fax: (02) 9959 5802

PROPOSED RESIDENTIAL SUBDIVISION -5 WARRIEWOOD VALLEY, **WARRIEWOOD NSW** 

TITLE: HYDRAULIC SERVICES

#### COVER SHEET, LEGEND AND DRAWING SCHEDULE

SCALE:	PROJECT No:	CAD REF	EF:	
DATE:	4733-1H	T; TKI	VEW/	
JULY '04	DRAWNG NUMBER:	REVISION		
DRAWN BY:	H-00	Р3		
CKD BY: AT	11-00	' \		

TYPE 1

TYPICAL SECTION A

BED

TERRA(

THE HYDRAULIC SERVICES

AND RELEVANT AUSTRALIAN STANDARDS.

VERIFIED ON SITE.

GR	DUND CO	ONDITION.			
ı	1				1
РЗ	REVIEW			A	AT
P2	REVIEW			AM	AT
P1	PRELIMINARY ISSUE			AM	AT
REV	ISSUE			BY	CKE
SCHED	ULE OF RE	FERENCE FILE	s		QA
DISCIPLINE		DRG NO.	REV	RE	ASON
ARCHI	TECTURAL	19.08.04			_
STRUCTURAL		77887			AUTH
MECHA	NICAL			BY:	
				1	

THIS DRAWING IS COPYRIGHT @

ENVIRONMENTAL: