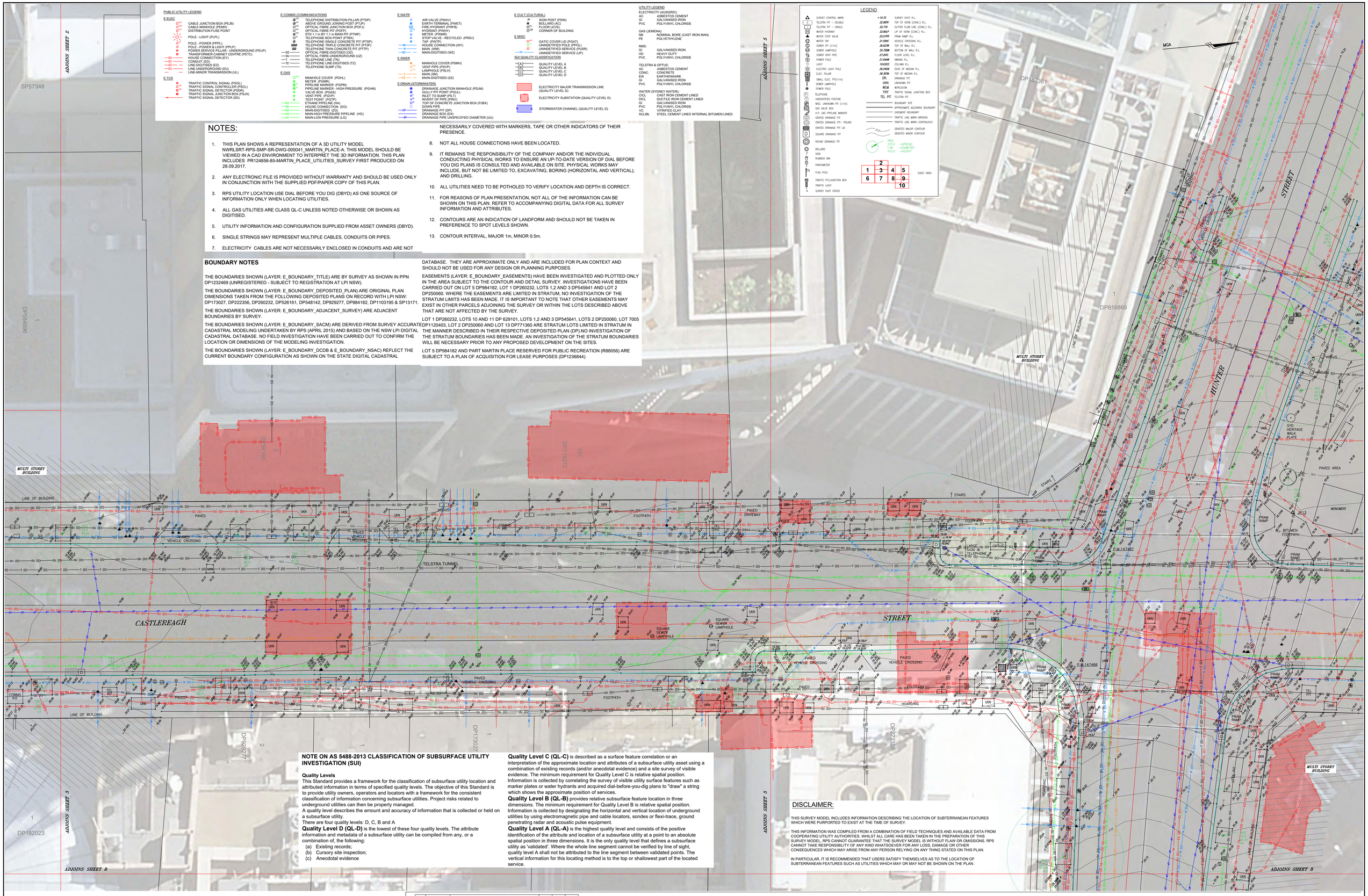

PUBLIC UTILITY LEGEND

E ELEC
- CABLE JUNCTION BOX (PEJB)
- CABLE MANHOLE (PEMH)
- DISTRIBUTION FUSE POINT
- POLE - LIGHT (PLPL)
- POLE - POWER (PPPL)
- POLE - POWER & LIGHT (PPLP)
- POWER SERVICE PILLAR - UNDERGROUND (PEUP)
- TRANSFORMER CABINET CENTRE (PETC)
- HOUSE CONNECTION (EY)
- CONDUIT (ED)
- LINE-DIGITISED (EZ)
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- LINE-MINOR TRANSMISSION (UL)

E TCS
- TRAFFIC CONTROL SIGNAL (PSGL)
- TRAFFIC SIGNAL CONTROLLER (PSCL)
- TRAFFIC SIGNAL DETECTOR (PSDR)
- TRAFFIC SIGNAL JUNCTION BOX (PSJX)
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E COMMS (COMMUNICATIONS)
- TELEPHONE DISTRIBUTION PILLAR (PTDP)
- ABOVE GROUND JOINING POST (PTJP)
- OPTICAL FIBRE JUNCTION BOX (POFJ)
- OPTICAL FIBRE PIT (POFP)
- STD 1.1 m BY 1.1 m MAIN PIT (PTMP)
- TELEPHONE BOX POINT (PTBX)
- TELEPHONE SINGLE CONCRETE PIT (PTSP)
- TELEPHONE TRIPLE CONCRETE PIT (PT3P)
- TELEPHONE TWIN CONCRETE PIT (PTTP)
- OPTICAL FIBRE-DIGITISED (OZ)
- OPTICAL FIBRE-UNDERGROUND (UZ)
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E GAS
- MANHOLE COVER (PGHL)
- METER (PGMR)
- PIPELINE MARKER - HIGH PRESSURE (PGHM)
- VALVE BOX (PGAS)
- VENT PIPE (PGVP)
- TEST POINT (PGTP)
- ETHANE PIPELINE (HA)
- HOUSE CONNECTION (DG)
- MAIN-DIGITISED (ZG)
- MAIN-HIGH PRESSURE PIPELINE (HG)
- MAIN-LOW PRESSURE (LG)

E WATR
- AIR VALVE (PWAV)
- EARTH TERMINAL (PWET)
- FIRE HYDRANT (PWFB)
- HYDRANT (PWHY)
- METER (PWMR)
- STOP VALVE - RECYCLED (PRSV)
- TAP (PWTP)
- HOUSE CONNECTION (WY)
- MAIN (WM)
- MAIN-DIGITISED (WZ)

E SWER
- MANHOLE COVER (PSMH)
- VENT PIPE (PSVP)
- LAMPHOLE (PSLH)
- MAIN (SM)
- MAIN-DIGITISED (SZ)

E DRAIN (STORMWATER)
- DRAINAGE JUNCTION MANHOLE (PDJM)
- GULLY PIT POINT (PGUL)
- INLET TO SUMP (PILT)
- INVERT OF PIPE (PINV)
- TOP OF CONCRETE JUNCTION BOX (PJBX)
- DOWN PIPE
- DRAINAGE PIT (DP)
- DRAINAGE BOX (DX)
- DRAINAGE PIPE UNSPECIFIED DIAMETER (UU)

E CULT (CULTURAL)
- SIGN POST (PSIN)
- BOLLARD (AC)
- FLOOR LEVEL
- CORNER OF BUILDING

E MISC
- GATIC COVER LID (PGAT)
- UNINDETIFIED POLE (PPOL)
- UNINDETIFIED SERVICE (PUSR)
- UNINDETIFIED SERVICE (UP)

SUI QUALITY CLASSIFICATION
- (A) QUALITY LEVEL A
- (B) QUALITY LEVEL B
- (C) QUALITY LEVEL C
- (D) QUALITY LEVEL D
- ELECTRICITY MAJOR TRANSMISSION LINE (QUALITY LEVEL D)
- ELECTRICITY SUBSTATION (QUALITY LEVEL D)
- STORMWATER CHANNEL (QUALITY LEVEL D)

UTILITY LEGEND

ELECTRICITY (AUSGRID):
- AC ASBESTOS CEMENT
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE

GAS (JEMENA):
- NB NOMINAL BORE (CAST IRON MAN)
- PE POLYETHYLENE

RMS:
- GI GALVANISED IRON
- HD HEAVY DUTY
- PVC POLYVINYL CHLORIDE

TELSTRA & OPTUS:
- AC ASBESTOS CEMENT
- CONC. CONCRETE
- EW EARTHENWARE
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE

WATER (SYDNEY WATER):
- CICL CAST IRON CEMENT LINED
- DICL DUCTILE IRON CEMENT LINED
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE
- VC VITRIFIED CLAY
- SCLIBL STEEL CEMENT LINED INTERNAL BITUMEN LINED

LEGEND

- SURVEY CONTROL MARK
- TELSTRA PIT – DOUBLE
- TELSTRA PIT – SINGLE
- WATER HYDRANT
- WATER STOP VALVE
- WATER TAP
- SEWER PIT (<1m)
- SEWER LAMPHOLE
- SEWER VENT PIPE
- POWER POLE
- LIGHT
- ELECTRIC LIGHT POLE
- ELEC. PILLAR
- SMALL ELEC. PIT(<1m)
- SEWER LAMPHOLE
- POWER POLE
- TELEPHONE
- UNIDENTIFIED FEATURE
- MISC. UNKNOWN PIT (<1m)
- GAS VALVE BOX
- H.P. GAS PIPELINE MARKER
- GRATED DRAINAGE PIT
- GRATED DRAINAGE PIT– ROUND
- GRATED DRAINAGE PIT LID
- SQUARE DRAINAGE PIT
- ROUND DRAINAGE PIT
- BOLLARD
- SIGN
- RUBBISH BIN
- PARKOMETER
- FLAG POLE
- TRAFFIC PIT/JUNCTION BOX
- TRAFFIC LIGHT
- SURVEY SHOT CROSS

- *10.75 SURVEY SHOT R.L.
- 32.985V TOP OF KERB (CONC.) R.L.
- 32.77S OUTER FLOW LINE (CONC.) R.L.
- 32.80LP LIP OF KERB (CONC.) R.L.
- 25.53PR PRAM RAMP R.L.
- 21.59VC VEHICLE CROSSING R.L.
- 36.027W TOP OF WALL R.L.
- 35.750W BOTTOM OF WALL R.L.
- 27.25FL FLOOR LEVEL R.L.
- 21.644W ARKING R.L.
- 19.633CI COLUMN R.L.
- 26.240EW EDGE OF MEDIAN R.L.
- 26.365W TOP OF MEDIAN R.L.
- DR. DRAINAGE PIT
- UKN UNKNOWN PIT
- WCM WORLDCOM
- TRF TRAFFIC SIGNAL JUNCTION BOX
- TEL PIT TELSTRA PIT
- BOUNDARY SITE
- APPROXIMATE ADJOINING BOUNDARY
- EASEMENT BOUNDARY
- TRAFFIC LINE MARK–BROKEN
- TRAFFIC LINE MARK–CONTINUOUS
- 1.0 DENOTES MAJOR CONTOUR
- 0.5 DENOTES MINOR CONTOUR
- TREE S10.0 =SPREAD T.0# =DIAMETER H10.0 =HEIGHT

SHEET AREA: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

NOTES:

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12. CONTOURS ARE AN INDICATION OF LANDFORM AND SHOULD NOT BE TAKEN IN PREFERENCE TO SPOT LEVELS SHOWN.
13. CONTOUR INTERVAL, MAJOR 1m, MINOR 0.5m.

BOUNDARY NOTES

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_TITLE) ARE BY SURVEY AS SHOWN IN PPN DP1232469 (UNREGISTERED - SUBJECT TO REGISTRATION AT LPI NSW).

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LOT 1 DP260232, LOTS 10 AND 11 DP 629101, LOTS 1,2 AND 3 DP545641, LOTS 2 DP250060, LOT 7005 DP1120403, LOT 2 DP250060 AND LOT 13 DP771360 ARE STRATUM LOTS LIMITED IN STRATUM IN THE MANNER DESCRIBED IN THEIR RESPECTIVE DEPOSITED PLAN (DP).NO INVESTIGATION OF THE STRATUM BOUNDARIES HAS BEEN MADE. AN INVESTIGATION OF THE STRATUM BOUNDARIES WILL BE NECESSARY PRIOR TO ANY PROPOSED DEVELOPMENT ON THE SITES.

LOT 5 DP984182 AND PART MARTIN PLACE RESERVED FOR PUBLIC RECREATION (R88056) ARE SUBJECT TO A PLAN OF ACQUISITION FOR LEASE PURPOSES (DP1236844).

NOTE ON AS 5488-2013 CLASSIFICATION OF SUBSURFACE UTILITY INVESTIGATION (SUI)

Quality Levels

This Standard provides a framework for the classification of subsurface utility location and attributed information in terms of specified quality levels. The objective of this Standard is to provide utility owners, operators and locators with a framework for the consistent classification of information concerning subsurface utilities. Project risks related to underground utilities can then be properly managed.

A quality level describes the amount and accuracy of information that is collected or held on a subsurface utility.

There are four quality levels: D, C, B and A

Quality Level D (QL-D) is the lowest of these four quality levels. The attribute information and metadata of a subsurface utility can be compiled from any, or a combination of, the following:

(a) Existing records;
(b) Cursory site inspection;
(c) Anecdotal evidence

Quality Level C (QL-C) is described as a surface feature correlation or an interpretation of the approximate location and attributes of a subsurface utility asset using a combination of existing records (and/or anecdotal evidence) and a site survey of visible evidence. The minimum requirement for Quality Level C is relative spatial position. Information is collected by correlating the survey of visible utility surface features such as marker plates or water hydrants and acquired dial-before-you-dig plans to "draw" a string which shows the approximate position of services.

Quality Level B (QL-B) provides relative subsurface feature location in three dimensions. The minimum requirement for Quality Level B is relative spatial position. Information is collected by designating the horizontal and vertical location of underground utilities by using electromagnetic pipe and cable locators, sondes or flexi-trace, ground penetrating radar and acoustic pulse equipment.

Quality Level A (QL-A) is the highest quality level and consists of the positive identification of the attribute and location of a subsurface utility at a point to an absolute spatial position in three dimensions. It is the only quality level that defines a subsurface utility as 'validated'. Where the whole line segment cannot be verified by line of sight, quality level A shall not be attributed to the line segment between validated points. The vertical information for this locating method is to the top or shallowest part of the located service.

DISCLAIMER:

THIS SURVEY MODEL INCLUDES INFORMATION DESCRIBING THE LOCATION OF SUBTERRANEAN FEATURES WHICH WERE PURPORTED TO EXIST AT THE TIME OF SURVEY.

THIS INFORMATION WAS COMPILED FROM A COMBINATION OF FIELD TECHNIQUES AND AVAILABLE DATA FROM COOPERATING UTILITY AUTHORITIES. WHILST ALL CARE HAS BEEN TAKEN IN THE PREPARATION OF THIS SURVEY MODEL, RPS CANNOT GUARANTEE THAT THE SURVEY MODEL IS WITHOUT FLAW OR OMISSIONS. RPS CANNOT TAKE RESPONSIBILITY OF ANY KIND WHATSOEVER FOR ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON ANY THING STATED ON THIS PLAN.

IN PARTICULAR, IT IS RECOMMENDED THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES SUCH AS UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.

No.	DATE	REVISION DETAILS	DRAWN	CHK	APP
A	03.11.2017	INITIAL VERSION	K.S.	C.M.	S.F.G.

REVISIONS

HORIZ. SCALE: 1:100 | VERT. SCALE: N/A @ A0
COORDINATES: MGA | DATUM: AHD
ORIGIN: SCIMS | ORIGIN: SCIMS
2 1 0 2 4 6
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

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CLIENT: sydney METRO | city & southwest

SURVEY:	L.C.	DATE OF SURVEY:	31.08.2017
DRAWN:	K.S.	DATE OF PLAN:	03.11.2017
CHECKED:	P.G.	DATE LAST SAVED:	03.11.2017
APPROVED:	P.G.	DATE APPROVED:	03.11.2017

TITLE: PLAN SHOWING DETAIL & LEVELS OF PART OF MARTIN PLACE, ELIZABETH STREET, CASTLEREAGH STREET, HUNTER STREET AND CHIFLEY SQUARE, SYDNEY NSW 2000

DRAWING No: NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A.dwg

JOB No: PR124856 | ISSUE: A

SHEET 4 OF 10 SHEETS | SIZE: A0

RPS AUSTRALIA EAST PTY LTD [ABN 44 140 292 762]
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T: 02 9248 9800 F: 02 9248 9810 www.rpsgroup.com.au

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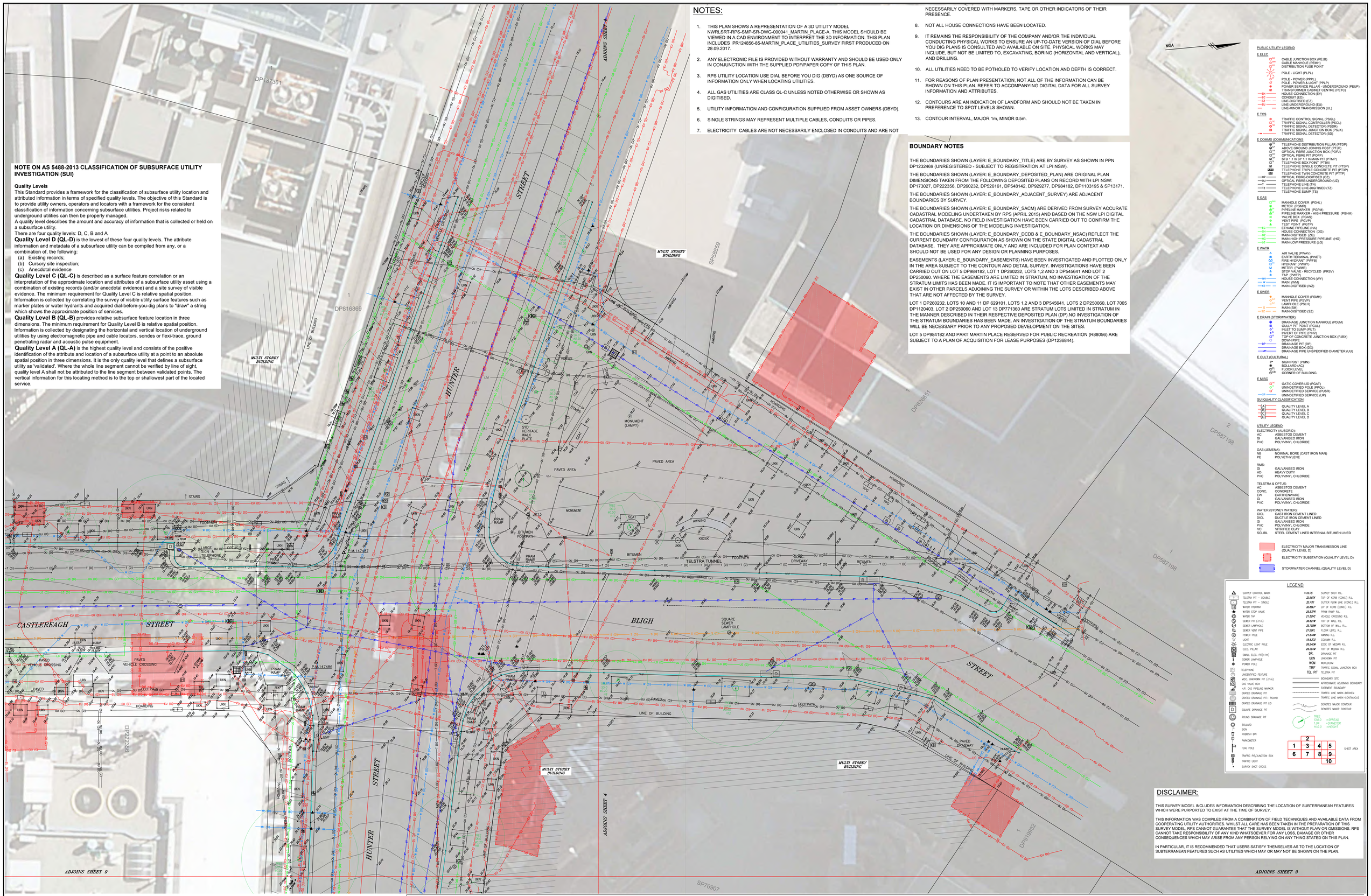

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- MAIN-DIGITISED (SZ)

E DRAIN (STORMWATER)
- DRAINAGE JUNCTION MANHOLE (PDJM)
- GULLY PIT POINT (PGUL)
- INLET TO TRAP (PILT)
- INVERT OF PIPE (PINV)
- TOP OF CONCRETE JUNCTION BOX (PJBX)
- DOWN PIPE
- DRAINAGE PIT (DP)
- DRAINAGE BOX (DX)
- DRAINAGE PIPE UNSPECIFIED DIAMETER (UU)

E CULT (CULTURAL)
- SIGN POST (PSIN)
- BOLLARD (AC)
- FLOOR LEVEL
- CORNER OF BUILDING

E MISC
- GATIC COVER LID (PGAT)
- UNINDETIFIED POLE (PPOL)
- UNINDETIFIED SERVICE (PUSR)
- UNINDETIFIED SERVICE (UP)

SUI QUALITY CLASSIFICATION
- QUALITY LEVEL A
- QUALITY LEVEL B
- QUALITY LEVEL C
- QUALITY LEVEL D

UTILITY LEGEND

ELECTRICITY (AUSGRID):
AC ASBESTOS CEMENT
GI GALVANISED IRON
PVC POLYVINYL CHLORIDE

GAS (JEMENA):
NB NOMINAL BORE (CAST IRON MAN)
PE POLYETHYLENE

RMS:
GI GALVANISED IRON
HD HEAVY DUTY
PVC POLYVINYL CHLORIDE

TELSTRA & OPTUS:
AC ASBESTOS CEMENT
CONC. CONCRETE
EW EARTHENWARE
GI GALVANISED IRON
PVC POLYVINYL CHLORIDE

WATER (SYDNEY WATER):
CICL CAST IRON CEMENT LINED
DICL DUCTILE IRON CEMENT LINED
GI GALVANISED IRON
PVC POLYVINYL CHLORIDE
VC VITRIFIED CLAY
SCLIBL STEEL CEMENT LINED INTERNAL BITUMEN LINED

- ELECTRICITY MAJOR TRANSMISSION LINE (QUALITY LEVEL D)
- ELECTRICITY SUBSTATION (QUALITY LEVEL D)
- STORMWATER CHANNEL (QUALITY LEVEL D)

LEGEND

SURVEY CONTROL MARK	*10.75	SURVEY SHOT R.L.
TELSTRA PIT – DOUBLE	32.985K	TOP OF KERB (CONC.) R.L.
TELSTRA PIT – SINGLE	32.75E	GUTTER FLOW LINE (CONC.) R.L.
WATER HYDRANT	32.85LP	LIP OF KERB (CONC.) R.L.
WATER STOP VALVE	25.57PR	PRAM RAMP R.L.
WATER TAP	21.59VC	VEHICLE CROSSING R.L.
SEWER PIT (<1m)	30.62TW	TOP OF WALL R.L.
SEWER LAMPHOLE	35.75BW	BOTTOM OF WALL R.L.
SEWER VENT PIPE	27.22FL	FLOOR LEVEL R.L.
POWER POLE	21.64AW	AWNING R.L.
LIGHT	19.63CO	COLUMN R.L.
ELECTRIC LIGHT POLE	20.24EW	EDGE OF MEDIAN R.L.
ELEC. PILLAR	20.30TW	TOP OF MEDIAN R.L.
SMALL ELEC. PIT(<1m)	DR.	DRAINAGE PIT
SEWER LAMPHOLE	UKN	UNKNOWN PIT
POWER POLE	WCM	WORLDCOM
TELEPHONE	TRF	TRAFFIC SIGNAL JUNCTION BOX
UNIDENTIFIED FEATURE	TEL PIT	TELSTRA PIT
MISC. UNKNOWN PIT (<1m)		BOUNDARY SITE
GAS VALVE BOX		APPROXIMATE ADJOINING BOUNDARY
H.P. GAS PIPELINE MARKER		EASEMENT BOUNDARY
GRATED DRAINAGE PIT		TRAFFIC LINE MARK–BROKEN
GRATED DRAINAGE PIT– ROUND		TRAFFIC LINE MARK–CONTINUOUS
GRATED DRAINAGE PIT L/D	10	DENOTES MAJOR CONTOUR
SQUARE DRAINAGE PIT		DENOTES MINOR CONTOUR
ROUND DRAINAGE PIT		TREE: STD.D =SPREAD; S.DIA =DIAMETER; HTD.D =HEIGHT
BOLLARD		
SIGN		
RUBBISH BIN		
PARKOMETER		
FLAG POLE		
TRAFFIC PIT/JUNCTION BOX		
TRAFFIC LIGHT		
SURVEY SHOT CROSS		

SHEET AREA: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

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REVISIONS					
A	03.11.2017	INITIAL VERSION	K.S.	C.M.	S.F.G.
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:100 | VERT. SCALE: N/A @ A0
COORDINATES: MGA | DATUM: AHD
ORIGIN: SCIMS | ORIGIN: SCIMS
2 1 0 2 4 6
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

CLIENT: sydney METRO | city & southwest

SURVEY:	L.C.	DATE OF SURVEY:	31.08.2017
DRAWN:	K.S.	DATE OF PLAN:	03.11.2017
CHECKED:	P.G.	DATE LAST SAVED:	03.11.2017
APPROVED:	P.G.	DATE APPROVED:	03.11.2017

TITLE: PLAN SHOWING DETAIL & LEVELS OF PART OF MARTIN PLACE, ELIZABETH STREET, CASTLEREAGH STREET, HUNTER STREET AND CHIFLEY SQUARE, SYDNEY NSW 2000

DRAWING No: NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A.dwg

JOB No: PR124856 | ISSUE: A

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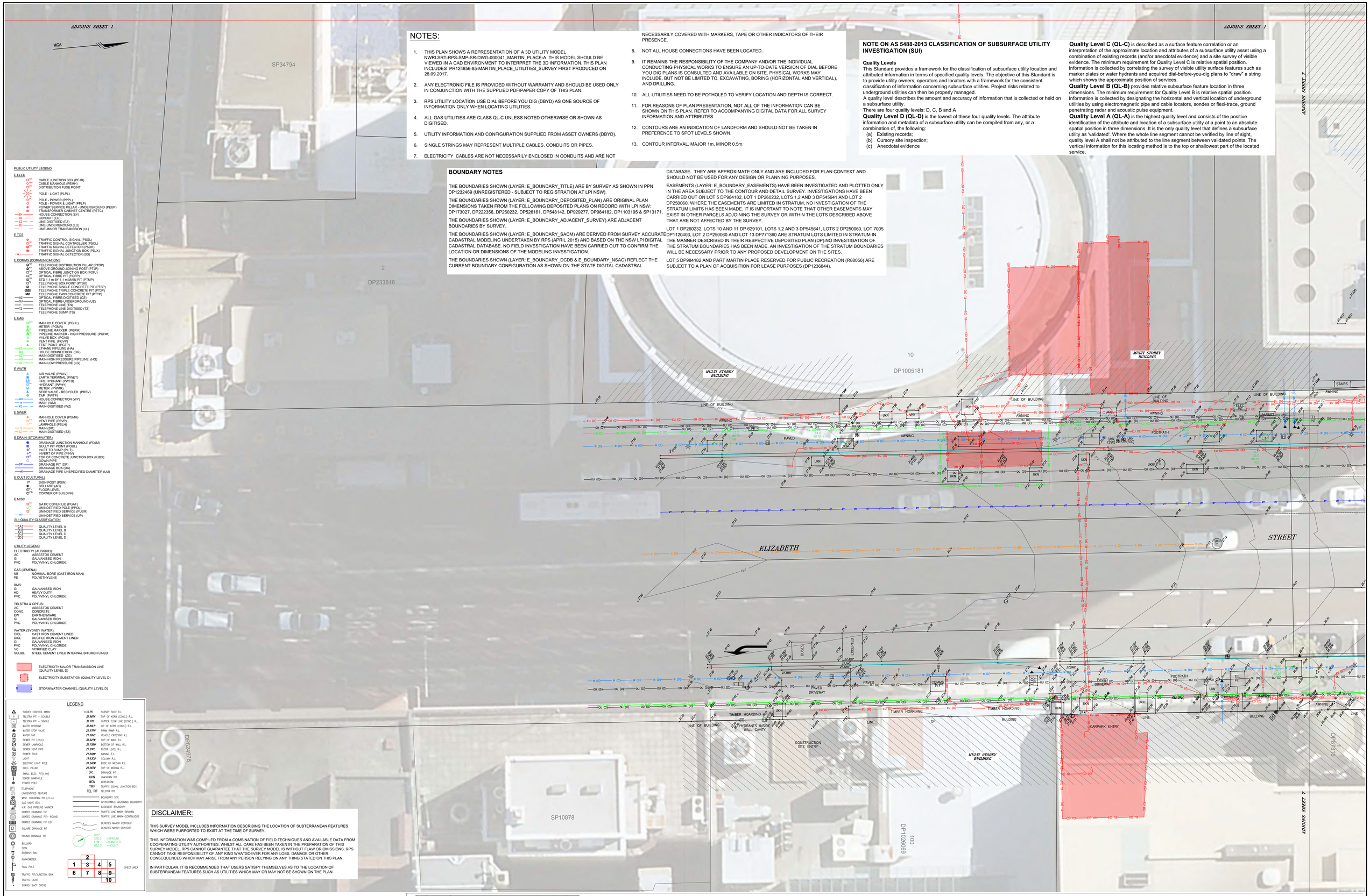

NOTES:

1. THIS PLAN SHOWS A REPRESENTATION OF A 3D UTILITY MODEL NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A. THIS MODEL SHOULD BE VIEWED IN A CAD ENVIRONMENT TO INTERPRET THE 3D INFORMATION. THIS PLAN INCLUDES PR124856-85-MARTIN_PLACE_UTILITIES_SURVEY FIRST PRODUCED ON 28.09.2017.
2. ANY ELECTRONIC FILE IS PROVIDED WITHOUT WARRANTY AND SHOULD BE USED ONLY IN CONJUNCTION WITH THE SUPPLIED PDF/PAPER COPY OF THIS PLAN.
3. RPS UTILITY LOCATION USE DIAL BEFORE YOU DIG (DBYD) AS ONE SOURCE OF INFORMATION ONLY WHEN LOCATING UTILITIES.
4. ALL GAS UTILITIES ARE CLASS QL-C UNLESS NOTED OTHERWISE OR SHOWN AS DIGITISED.
5. UTILITY INFORMATION AND CONFIGURATION SUPPLIED FROM ASSET OWNERS (DBYD).
6. SINGLE STRINGS MAY REPRESENT MULTIPLE CABLES, CONDUITS OR PIPES.
7. ELECTRICITY CABLES ARE NOT NECESSARILY ENCLOSED IN CONDUITS AND ARE NOT NECESSARILY COVERED WITH MARKERS, TAPE OR OTHER INDICATORS OF THEIR PRESENCE.
8. NOT ALL HOUSE CONNECTIONS HAVE BEEN LOCATED.
9. IT REMAINS THE RESPONSIBILITY OF THE COMPANY AND/OR THE INDIVIDUAL CONDUCTING PHYSICAL WORKS TO ENSURE AN UP-TO-DATE VERSION OF DIAL BEFORE YOU DIG PLANS IS CONSULTED AND AVAILABLE ON SITE. PHYSICAL WORKS MAY INCLUDE, BUT NOT BE LIMITED TO, EXCAVATING, BORING (HORIZONTAL AND VERTICAL), AND DRILLING.
10. ALL UTILITIES NEED TO BE POTHOLED TO VERIFY LOCATION AND DEPTH IS CORRECT.
11. FOR REASONS OF PLAN PRESENTATION, NOT ALL OF THE INFORMATION CAN BE SHOWN ON THIS PLAN. REFER TO ACCOMPANYING DIGITAL DATA FOR ALL SURVEY INFORMATION AND ATTRIBUTES.
12. CONTOURS ARE AN INDICATION OF LANDFORM AND SHOULD NOT BE TAKEN IN PREFERENCE TO SPOT LEVELS SHOWN.
13. CONTOUR INTERVAL, MAJOR 1m, MINOR 0.5m.

NOTE ON AS 5488-2013 CLASSIFICATION OF SUBSURFACE UTILITY INVESTIGATION (SUI)

Quality Levels

This Standard provides a framework for the classification of subsurface utility location and attributed information in terms of specified quality levels. The objective of this Standard is to provide utility owners, operators and locators with a framework for the consistent classification of information concerning subsurface utilities. Project risks related to underground utilities can then be properly managed.

A quality level describes the amount and accuracy of information that is collected or held on a subsurface utility.

There are four quality levels: D, C, B and A

Quality Level D (QL-D) is the lowest of these four quality levels. The attribute information and metadata of a subsurface utility can be compiled from any, or a combination of, the following:

(a) Existing records;
(b) Cursory site inspection;
(c) Anecdotal evidence

Quality Level C (QL-C) is described as a surface feature correlation or an interpretation of the approximate location and attributes of a subsurface utility asset using a combination of existing records (and/or anecdotal evidence) and a site survey of visible evidence. The minimum requirement for Quality Level C is relative spatial position. Information is collected by correlating the survey of visible utility surface features such as marker plates or water hydrants and acquired dial-before-you-dig plans to "draw" a string which shows the approximate position of services.

Quality Level B (QL-B) provides relative subsurface feature location in three dimensions. The minimum requirement for Quality Level B is relative spatial position. Information is collected by designating the horizontal and vertical location of underground utilities by using electromagnetic pipe and cable locators, sondes or flexi-trace, ground penetrating radar and acoustic pulse equipment.

Quality Level A (QL-A) is the highest quality level and consists of the positive identification of the attribute and location of a subsurface utility at a point to an absolute spatial position in three dimensions. It is the only quality level that defines a subsurface utility as 'validated'. Where the whole line segment cannot be verified by line of sight, quality level A shall not be attributed to the line segment between validated points. The vertical information for this locating method is to the top or shallowest part of the located service.

BOUNDARY NOTES

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_TITLE) ARE BY SURVEY AS SHOWN IN PPN DP1232469 (UNREGISTERED - SUBJECT TO REGISTRATION AT LPI NSW).

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_DEPOSITED_PLAN) ARE ORIGINAL PLAN DIMENSIONS TAKEN FROM THE FOLLOWING DEPOSITED PLANS ON RECORD WITH LPI NSW: DP173027, DP222356, DP260232, DP526161, DP548142, DP929277, DP984182, DP1103195 & SP13171.

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_ADJACENT_SURVEY) ARE ADJACENT BOUNDARIES BY SURVEY.

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_SACM) ARE DERIVED FROM SURVEY ACCURATE CADASTRAL MODELING UNDERTAKEN BY RPS (APRIL 2015) AND BASED ON THE NSW LPI DIGITAL CADASTRAL DATABASE. NO FIELD INVESTIGATION HAVE BEEN CARRIED OUT TO CONFIRM THE LOCATION OR DIMENSIONS OF THE MODELING INVESTIGATION.

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_DCDB & E_BOUNDARY_NSAC) REFLECT THE CURRENT BOUNDARY CONFIGURATION AS SHOWN ON THE STATE DIGITAL CADASTRAL DATABASE. THEY ARE APPROXIMATE ONLY AND ARE INCLUDED FOR PLAN CONTEXT AND SHOULD NOT BE USED FOR ANY DESIGN OR PLANNING PURPOSES.

EASEMENTS (LAYER: E_BOUNDARY_EASEMENTS) HAVE BEEN INVESTIGATED AND PLOTTED ONLY IN THE AREA SUBJECT TO THE CONTOUR AND DETAIL SURVEY. INVESTIGATIONS HAVE BEEN CARRIED OUT ON LOT 5 DP984182, LOT 1 DP260232, LOTS 1,2 AND 3 DP545641 AND LOT 2 DP250060. WHERE THE EASEMENTS ARE LIMITED IN STRATUM, NO INVESTIGATION OF THE STRATUM LIMITS HAS BEEN MADE. IT IS IMPORTANT TO NOTE THAT OTHER EASEMENTS MAY EXIST IN OTHER PARCELS ADJOINING THE SURVEY OR WITHIN THE LOTS DESCRIBED ABOVE THAT ARE NOT AFFECTED BY THE SURVEY.

LOT 1 DP260232, LOTS 10 AND 11 DP 629101, LOTS 1,2 AND 3 DP545641, LOTS 2 DP250060, LOT 7005 DP1120403, LOT 2 DP250060 AND LOT 13 DP771360 ARE STRATUM LOTS LIMITED IN STRATUM IN THE MANNER DESCRIBED IN THEIR RESPECTIVE DEPOSITED PLAN (DP).NO INVESTIGATION OF THE STRATUM BOUNDARIES HAS BEEN MADE. AN INVESTIGATION OF THE STRATUM BOUNDARIES WILL BE NECESSARY PRIOR TO ANY PROPOSED DEVELOPMENT ON THE SITES.

LOT 5 DP984182 AND PART MARTIN PLACE RESERVED FOR PUBLIC RECREATION (R88056) ARE SUBJECT TO A PLAN OF ACQUISITION FOR LEASE PURPOSES (DP1236844).

PUBLIC UTILITY LEGEND

E ELEC
- CABLE JUNCTION BOX (PEJB)
- CABLE MANHOLE (PEMH)
- DISTRIBUTION FUSE POINT
- POLE - LIGHT (PLPL)
- POLE - POWER (PPPL)
- POLE - POWER & LIGHT (PPLP)
- POWER SERVICE PILLAR - UNDERGROUND (PEUP)
- TRANSFORMER CABINET CENTRE (PETC)
- HOUSE CONNECTION (EY)
- CONDUIT (ED)
- LINE-DIGITISED (EZ)
- LINE-UNDERGROUND (EU)
- LINE-MINOR TRANSMISSION (UL)

E TCS
- TRAFFIC CONTROL SIGNAL (PSGL)
- TRAFFIC SIGNAL CONTROLLER (PSCL)
- TRAFFIC SIGNAL DETECTOR (PSDR)
- TRAFFIC SIGNAL JUNCTION BOX (PSJX)
- TRAFFIC SIGNAL DETECTOR (SD)

E COMMS (COMMUNICATIONS)
- TELEPHONE DISTRIBUTION PILLAR (PTDP)
- ABOVE GROUND JOINING POST (PTJP)
- OPTICAL FIBRE JUNCTION BOX (POFJ)
- OPTICAL FIBRE PIT (POFP)
- STD 1.1 m BY 1.1 m MAIN PIT (PTMP)
- TELEPHONE BOX POINT (PTBX)
- TELEPHONE SINGLE CONCRETE PIT (PTSP)
- TELEPHONE TRIPLE CONCRETE PIT (PTSP)
- TELEPHONE TWIN CONCRETE PIT (PTTP)
- OPTICAL FIBRE-DIGITISED (OZ)
- OPTICAL FIBRE-UNDERGROUND (UZ)
- TELEPHONE LINE (TN)
- TELEPHONE LINE-DIGITISED (TZ)
- TELEPHONE SUMP (TS)

E GAS
- MANHOLE COVER (PGHL)
- METER (PGMR)
- PIPELINE MARKER (PGPM)
- PIPELINE MARKER - HIGH PRESSURE (PGHM)
- VALVE BOX (PGAS)
- VENT PIPE (PGVP)
- ETHANE PIPELINE (HA)
- HOUSE CONNECTION (DG)
- MAIN-DIGITISED (ZG)
- MAIN-HIGH PRESSURE PIPELINE (HG)
- MAIN-LOW PRESSURE (LG)

E WATR
- AIR VALVE (PWAV)
- EARTH TERMINAL (PWET)
- FIRE HYDRANT (PWFB)
- HYDRANT (PWHY)
- METER (PWMR)
- STOP VALVE - RECYCLED (PRSV)
- TAP (PWTP)
- HOUSE CONNECTION (WY)
- MAIN (WM)
- MAIN-DIGITISED (WZ)

E SWER
- MANHOLE COVER (PSMH)
- VENT PIPE (PSVP)
- LAMPHOLE (PSLH)
- MAIN (SM)
- MAIN-DIGITISED (SZ)

E DRAIN (STORMWATER)
- DRAINAGE JUNCTION MANHOLE (PDJM)
- GULLY PIT POINT (PGUL)
- INLET TO SUMP (PILT)
- INVERT OF PIPE (PINV)
- TOP OF CONCRETE JUNCTION BOX (PJBX)
- DOWN PIPE
- DRAINAGE PIT (DP)
- DRAINAGE BOX (DX)
- DRAINAGE PIPE UNSPECIFIED DIAMETER (UU)

E CULT (CULTURAL)
- SIGN POST (PSIN)
- BOLLARD (AC)
- FLOOR LEVEL
- CORNER OF BUILDING

E MISC
- GATIC COVER LID (PGAT)
- UNIDETIFIED POLE (PPOL)
- UNINDETIFIED SERVICE (PUSR)
- UNINDETIFIED SERVICE (UP)

SUI QUALITY CLASSIFICATION
- (A) QUALITY LEVEL A
- (B) QUALITY LEVEL B
- (C) QUALITY LEVEL C
- (D) QUALITY LEVEL D

UTILITY LEGEND

ELECTRICITY (AUSGRID):
AC: ASBESTOS CEMENT
GI GALVANISED IRON
PVC: POLYVINYL CHLORIDE

GAS (JEMENA):
NB NOMINAL BORE (CAST IRON MAN)
PE POLYETHYLENE

RMS:
GI GALVANISED IRON
HD HEAVY DUTY
PVC POLYVINYL CHLORIDE

TELSTRA & OPTUS:
AC ASBESTOS CEMENT
CONC. CONCRETE
EW EARTHENWARE
GI GALVANISED IRON
PVC: POLYVINYL CHLORIDE

WATER (SYDNEY WATER):
CICL CAST IRON CEMENT LINED
DICL DUCTILE IRON CEMENT LINED
GI GALVANISED IRON
PVC: POLYVINYL CHLORIDE
VC VITRIFIED CLAY
SCLBL STEEL CEMENT LINED INTERNAL BITUMEN LINED

- ELECTRICITY MAJOR TRANSMISSION LINE (QUALITY LEVEL D)
- ELECTRICITY SUBSTATION (QUALITY LEVEL D)
- STORMWATER CHANNEL (QUALITY LEVEL D)

LEGEND

SURVEY CONTROL MARK	10.75	SURVEY SHOT R.L.	
TELSTRA PIT – DOUBLE	32.95K	TOP OF KERB (CONC.) R.L.	
TELSTRA PIT – SINGLE	32.75C	GUTTER FLOW LINE (CONC.) R.L.	
WATER HYDRANT	32.95LP	LIP OF KERB (CONC.) R.L.	
WATER STOP VALVE	25.53PR	PRAM RAMP R.L.	
WATER TAP	27.59VC	VEHICLE CROSSING R.L.	
SEWER PIT (<1m)	36.62TW	TOP OF WALL R.L.	
SEWER LAMPHOLE	25.75BW	BOTTOM OF WALL R.L.	
SEWER VENT PIPE	27.29FL	FLOOR LEVEL R.L.	
POWER POLE	21.64AW	AWNING R.L.	
LIGHT	19.63CO	COLUMN R.L.	
ELECTRIC LIGHT POLE	26.24EW	EDGE OF WEDNW R.L.	
ELEC. PILLAR	26.36TW	TOP OF WEDNW R.L.	
SMALL ELEC. PIT(<1m)	DR.	DRAINAGE PIT	
SEWER LAMPHOLE	UKN	UNKNOWN PIT	
POWER POLE	WCM	WORLCOM	
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H.P. GAS PIPELINE MARKER		EASEMENT BOUNDARY	
GRATED DRAINAGE PIT		TRAFFIC LINE MARK–BROKEN	
GRATED DRAINAGE PIT– ROUND		TRAFFIC LINE MARK–CONTINUOUS	
GRATED DRAINAGE PIT LID		DENOTES MAJOR CONTOUR	
SQUARE DRAINAGE PIT		DENOTES MINOR CONTOUR	
ROUND DRAINAGE PIT		TREE STD.D =SPREAD 1.0# =DIAMETER H10.0 =HEIGHT	
BILLIARD			
SIGN			
RUBBISH BIN			
PARKOMETER			
FLAG POLE			
TRAFFIC PIT/JUNCTION BOX			
TRAFFIC LIGHT			
SURVEY SHOT CROSS			

SHEET AREA: 1 2 3 4 5 6 7 8 9 10

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A	03.11.2017	INITIAL VERSION	K.S.	C.M.	S.F.G.

HORIZ. SCALE: 1:100
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SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

CLIENT: sydney METRO | city & southwest

SURVEY:	L.C.	DATE OF SURVEY:	31.08.2017
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TITLE: PLAN SHOWING DETAIL & LEVELS OF PART OF MARTIN PLACE, ELIZABETH STREET, CASTLEREAGH STREET, HUNTER STREET AND CHIFLEY SQUARE, SYDNEY NSW 2000

DRAWING No: NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A.dwg

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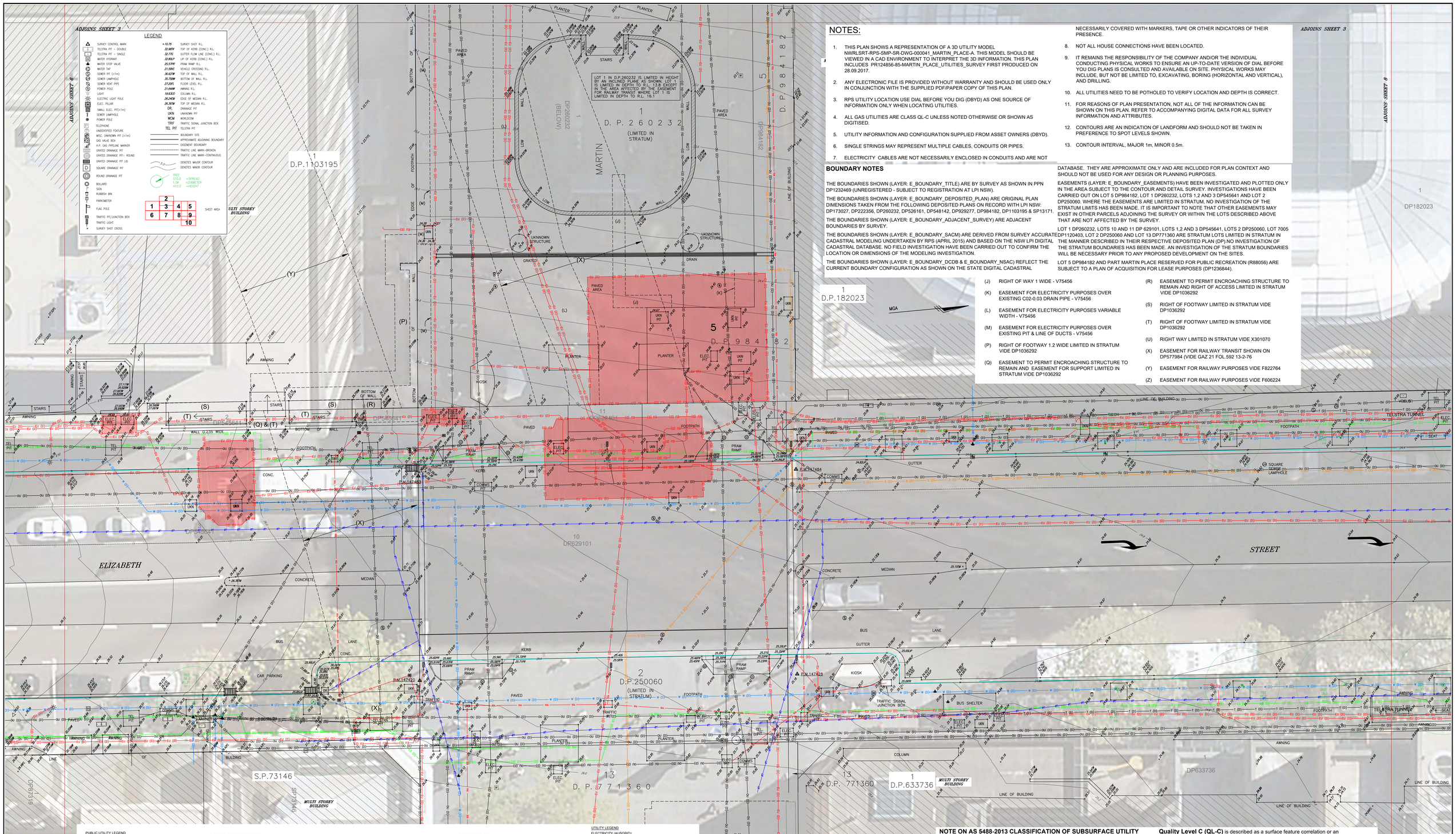

NOTES:

1. THIS PLAN SHOWS A REPRESENTATION OF A 3D UTILITY MODEL NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A. THIS MODEL SHOULD BE VIEWED IN A CAD ENVIRONMENT TO INTERPRET THE 3D INFORMATION. THIS PLAN INCLUDES PR124856-85-MARTIN_PLACE_UTILITIES_SURVEY FIRST PRODUCED ON 28.09.2017.
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10. ALL UTILITIES NEED TO BE POTHOLED TO VERIFY LOCATION AND DEPTH IS CORRECT.
11. FOR REASONS OF PLAN PRESENTATION, NOT ALL OF THE INFORMATION CAN BE SHOWN ON THIS PLAN. REFER TO ACCOMPANYING DIGITAL DATA FOR ALL SURVEY INFORMATION AND ATTRIBUTES.
12. CONTOURS ARE AN INDICATION OF LANDFORM AND SHOULD NOT BE TAKEN IN PREFERENCE TO SPOT LEVELS SHOWN.
13. CONTOUR INTERVAL, MAJOR 1m, MINOR 0.5m.

BOUNDARY NOTES

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_TITLE) ARE BY SURVEY AS SHOWN IN PPN DP1232469 (UNREGISTERED - SUBJECT TO REGISTRATION AT LPI NSW).

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_DEPOSITED_PLAN) ARE ORIGINAL PLAN DIMENSIONS TAKEN FROM THE FOLLOWING DEPOSITED PLANS ON RECORD WITH LPI NSW: DP173027, DP222356, DP260232, DP526161, DP548142, DP929277, DP984182, DP1103195 & SP13171.

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THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_SACM) ARE DERIVED FROM SURVEY ACCURATE CADASTRAL MODELING UNDERTAKEN BY RPS (APRIL 2015) AND BASED ON THE NSW LPI DIGITAL CADASTRAL DATABASE. NO FIELD INVESTIGATION HAVE BEEN CARRIED OUT TO CONFIRM THE LOCATION OR DIMENSIONS OF THE MODELING INVESTIGATION.

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_DCDB & E_BOUNDARY_NSAC) REFLECT THE CURRENT BOUNDARY CONFIGURATION AS SHOWN ON THE STATE DIGITAL CADASTRAL DATABASE. THEY ARE APPROXIMATE ONLY AND ARE INCLUDED FOR PLAN CONTEXT AND SHOULD NOT BE USED FOR ANY DESIGN OR PLANNING PURPOSES.

EASEMENTS (LAYER: E_BOUNDARY_EASEMENTS) HAVE BEEN INVESTIGATED AND PLOTTED ONLY IN THE AREA SUBJECT TO THE CONTOUR AND DETAIL SURVEY. INVESTIGATIONS HAVE BEEN CARRIED OUT ON LOT 5 DP984182, LOT 1 DP260232, LOTS 1,2 AND 3 DP545641 AND LOT 2 DP250060. WHERE THE EASEMENTS ARE LIMITED IN STRATUM, NO INVESTIGATION OF THE STRATUM LIMITS HAS BEEN MADE. IT IS IMPORTANT TO NOTE THAT OTHER EASEMENTS MAY EXIST IN OTHER PARCELS ADJOINING THE SURVEY OR WITHIN THE LOTS DESCRIBED ABOVE THAT ARE NOT AFFECTED BY THE SURVEY.

LOT 1 DP260232, LOTS 10 AND 11 DP 629101, LOTS 1,2 AND 3 DP545641, LOTS 2 DP250060, LOT 7005 DP1120403, LOT 2 DP250060 AND LOT 13 DP771360 ARE STRATUM LOTS LIMITED IN STRATUM IN THE MANNER DESCRIBED IN THEIR RESPECTIVE DEPOSITED PLAN (DP).NO INVESTIGATION OF THE STRATUM BOUNDARIES HAS BEEN MADE. AN INVESTIGATION OF THE STRATUM BOUNDARIES WILL BE NECESSARY PRIOR TO ANY PROPOSED DEVELOPMENT ON THE SITES.

LOT 5 DP984182 AND PART MARTIN PLACE RESERVED FOR PUBLIC RECREATION (R88056) ARE SUBJECT TO A PLAN OF ACQUISITION FOR LEASE PURPOSES (DP1236844).

(J) RIGHT OF WAY 1 WIDE - V75456

(K) EASEMENT FOR ELECTRICITY PURPOSES OVER EXISTING C02-0.03 DRAIN PIPE - V75456

(L) EASEMENT FOR ELECTRICITY PURPOSES VARIABLE WIDTH - V75456

(M) EASEMENT FOR ELECTRICITY PURPOSES OVER EXISTING PIT & LINE OF DUCTS - V75456

(P) RIGHT OF FOOTWAY 1.2 WIDE LIMITED IN STRATUM VIDE DP1036292

(Q) EASEMENT TO PERMIT ENCROACHING STRUCTURE TO REMAIN AND EASEMENT FOR SUPPORT LIMITED IN STRATUM VIDE DP1036292

(R) EASEMENT TO PERMIT ENCROACHING STRUCTURE TO REMAIN AND RIGHT OF ACCESS LIMITED IN STRATUM VIDE DP1036292

(S) RIGHT OF FOOTWAY LIMITED IN STRATUM VIDE DP1036292

(T) RIGHT OF FOOTWAY LIMITED IN STRATUM VIDE DP1036292

(U) RIGHT WAY LIMITED IN STRATUM VIDE X301070

(X) EASEMENT FOR RAILWAY TRANSIT SHOWN ON DP577984 (VIDE GAZ 21 FOL.592 13-2-76

(Y) EASEMENT FOR RAILWAY PURPOSES VIDE F822764

(Z) EASEMENT FOR RAILWAY PURPOSES VIDE F606224

PUBLIC UTILITY LEGEND

E ELEC
- CABLE JUNCTION BOX (PEJB)
- CABLE MANHOLE (PEMH)
- DISTRIBUTION FUSE POINT
- POLE - LIGHT (PLPL)
- POLE - POWER (PPPL)
- POLE - POWER & LIGHT (PPLP)
- POWER SERVICE PILLAR - UNDERGROUND (PEUP)
- TRANSFORMER CABINET CENTRE (PETC)
- HOUSE CONNECTION (EY)
- CONDUIT (ED)
- LINE-DIGITISED (EZ)
- LINE-UNDERGROUND (EU)
- LINE-MINOR TRANSMISSION (UL)

E TCS
- TRAFFIC CONTROL SIGNAL (PSGL)
- TRAFFIC SIGNAL CONTROLLER (PSCL)
- TRAFFIC SIGNAL DETECTOR (PSDR)
- TRAFFIC SIGNAL JUNCTION BOX (PSJX)
- TRAFFIC SIGNAL DETECTOR (SD)

E COMMS (COMMUNICATIONS)
- TELEPHONE DISTRIBUTION PILLAR (PTDP)
- ABOVE GROUND JOINING POST (PTJP)
- OPTICAL FIBRE JUNCTION BOX (POFJ)
- OPTICAL FIBRE PIT (POFP)
- STD 1.1 m BY 1.1 m MAIN PIT (PTMP)
- TELEPHONE BOX POINT (PTBX)
- TELEPHONE SINGLE CONCRETE PIT (PTSP)
- TELEPHONE TRIPLE CONCRETE PIT (PT3P)
- TELEPHONE TWIN CONCRETE PIT (PTTP)
- OPTICAL FIBRE-DIGITISED (OZ)
- OPTICAL FIBRE-UNDERGROUND (UZ)
- TELEPHONE LINE (TN)
- TELEPHONE LINE-DIGITISED (TZ)
- TELEPHONE SUMP (TS)

E GAS
- MANHOLE COVER (PGHL)
- METER (PGMR)
- PIPELINE MARKER (PGPM)
- PIPELINE MARKER - HIGH PRESSURE (PGHM)
- VALVE BOX (PGAS)
- INLET TO SUMP (PILT)
- TEST POINT (PGTP)
- ETHANE PIPELINE (HA)
- HOUSE CONNECTION (DG)
- MAIN-DIGITISED (ZG)
- MAIN-HIGH PRESSURE PIPELINE (HG)
- MAIN-LOW PRESSURE (LG)

E WATR
- AIR VALVE (PWAV)
- EARTH TERMINAL (PWET)
- FIRE HYDRANT (PWFB)
- HYDRANT (PWHY)
- METER (PWMR)
- STOP VALVE - RECYCLED (PRSV)
- TAP (PWTP)
- HOUSE CONNECTION (WY)
- MAIN (WM)
- MAIN-DIGITISED (WZ)

E SWER
- MANHOLE COVER (PSMH)
- VENT PIPE (PSVP)
- LAMPHOLE (PSLH)
- MAIN (SM)
- MAIN-DIGITISED (SZ)

E DRAIN (STORMWATER)
- DRAINAGE JUNCTION MANHOLE (PDJM)
- GULLY PIT (PGUL)
- INLET TO SUMP (PILT)
- PIPE - OF UNCERTAIN (PPWU)
- END OF CONCRETE JUNCTION BOX (PJBX)
- DOWN PIPE
- DRAINAGE PIT (DP)
- DRAINAGE BOX (DX)
- DRAINAGE PIPE UNSPECIFIED DIAMETER (UU)

E CULT (CULTURAL)
- SIGN POST (PSIN)
- BOLLARD (AC)
- FLOOR LEVEL
- CORNER OF BUILDING

E MISC
- GATIC COVER LID (PGAT)
- UNINDETIFIED POLE (PPOL)
- UNINDETIFIED SERVICE (PUSR)
- UNINDETIFIED SERVICE (UP)

SUI QUALITY CLASSIFICATION
- (A) QUALITY LEVEL A
- (B) QUALITY LEVEL B
- (C) QUALITY LEVEL C
- (D) QUALITY LEVEL D

- ELECTRICITY MAJOR TRANSMISSION LINE (QUALITY LEVEL D)
- ELECTRICITY SUBSTATION (QUALITY LEVEL D)
- STORMWATER CHANNEL (QUALITY LEVEL D)

UTILITY LEGEND

ELECTRICITY (AUSGRID):
- AC ASBESTOS CEMENT
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE

GAS (JEMENA):
- NB NOMINAL BORE (CAST IRON MAIN)
- PE POLYETHYLENE

RMS:
- GI GALVANISED IRON
- HD HEAVY DUTY
- PVC POLYVINYL CHLORIDE

TELSTRA & OPTUS:
- AC ASBESTOS CEMENT
- CONC. CONCRETE
- EW EARTHENWARE
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE

WATER (SYDNEY WATER):
- CICL CAST IRON CEMENT LINED
- DICL DUCTILE IRON CEMENT LINED
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE
- VC VITRIFIED CLAY
- SCLIBL STEEL CEMENT LINED INTERNAL BITUMEN LINED

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IN PARTICULAR, IT IS RECOMMENDED THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES SUCH AS UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.

NOTE ON AS 5488-2013 CLASSIFICATION OF SUBSURFACE UTILITY INVESTIGATION (SUI)

Quality Levels

This Standard provides a framework for the classification of subsurface utility location and attributed information in terms of specified quality levels. The objective of this Standard is to provide utility owners, operators and locators with a framework for the consistent classification of information concerning subsurface utilities. Project risks related to underground utilities can then be properly managed.

A quality level describes the amount and accuracy of information that is collected or held on a subsurface utility.

There are four quality levels: D, C, B and A

Quality Level D (QL-D) is the lowest of these four quality levels. The attribute information and metadata of a subsurface utility can be compiled from any, or a combination of, the following:

(a) Existing records;
(b) Cursory site inspection;
(c) Anecdotal evidence

Quality Level C (QL-C) is described as a surface feature correlation or an interpretation of the approximate location and attributes of a subsurface utility asset using a combination of existing records (and/or anecdotal evidence) and a site survey of visible evidence. The minimum requirement for Quality Level C is relative spatial position. Information is collected by correlating the survey of visible utility surface features such as marker plates or water hydrants and acquired dial-before-you-dig plans to "draw" a string which shows the approximate position of services.

Quality Level B (QL-B) provides relative subsurface feature location in three dimensions. The minimum requirement for Quality Level B is relative spatial position. Information is collected by designating the horizontal and vertical location of underground utilities by using electromagnetic pipe and cable locators, sondes or flexi-trace, ground penetrating radar and acoustic pulse equipment.

Quality Level A (QL-A) is the highest quality level and consists of the positive identification of the attribute and location of a subsurface utility at a point to an absolute spatial position in three dimensions. It is the only quality level that defines a subsurface utility as 'validated'. Where the whole line segment cannot be verified by line of sight, quality level A shall not be attributed to the line segment between validated points. The vertical information for this locating method is to the top or shallowest part of the located service.

No.	DATE	REVISION DETAILS	DRAWN	CHK	APP
A	03.11.2017	INITIAL VERSION	K.S.	C.M.	S.F.G.

REVISIONS

HORIZ. SCALE: 1:100 | VERT. SCALE: N/A @ A0
COORDINATES: MGA | DATUM: AHD
ORIGIN: SCIMS | ORIGIN: SCIMS
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

CLIENT: Sydney Metro | city & southwest

SURVEY:	L.C.	DATE OF SURVEY:	31.08.2017
DRAWN:	K.S.	DATE OF PLAN:	03.11.2017
CHECKED:	P.G.	DATE LAST SAVED:	03.11.2017
APPROVED:	P.G.	DATE APPROVED:	03.11.2017

TITLE: PLAN SHOWING DETAIL & LEVELS OF PART OF MARTIN PLACE, ELIZABETH STREET, CASTLEREAGH STREET, HUNTER STREET AND CHIFLEY SQUARE, SYDNEY NSW 2000

DRAWING No: NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A.dwg

JOB No: PR124856 | ISSUE: A

SHEET 7 OF 10 SHEETS | SIZE: A0

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ADJOINS SHEET 4

NOTES:

1. THIS PLAN SHOWS A REPRESENTATION OF A 3D UTILITY MODEL NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A. THIS MODEL SHOULD BE VIEWED IN A CAD ENVIRONMENT TO INTERPRET THE 3D INFORMATION. THIS PLAN INCLUDES PR124856-85-MARTIN_PLACE_UTILITIES_SURVEY FIRST PRODUCED ON 28.09.2017.
2. ANY ELECTRONIC FILE IS PROVIDED WITHOUT WARRANTY AND SHOULD BE USED ONLY IN CONJUNCTION WITH THE SUPPLIED PDF/PAPER COPY OF THIS PLAN.
3. RPS UTILITY LOCATION USE DIAL BEFORE YOU DIG (DBYD) AS ONE SOURCE OF INFORMATION ONLY WHEN LOCATING UTILITIES.
4. ALL GAS UTILITIES ARE CLASS QL-C UNLESS NOTED OTHERWISE OR SHOWN AS DIGITISED.
5. UTILITY INFORMATION AND CONFIGURATION SUPPLIED FROM ASSET OWNERS (DBYD).
6. SINGLE STRINGS MAY REPRESENT MULTIPLE CABLES, CONDUITS OR PIPES.
7. ELECTRICITY CABLES ARE NOT NECESSARILY ENCLOSED IN CONDUITS AND ARE NOT NECESSARILY COVERED WITH MARKERS, TAPE OR OTHER INDICATORS OF THEIR PRESENCE.
8. NOT ALL HOUSE CONNECTIONS HAVE BEEN LOCATED.
9. IT REMAINS THE RESPONSIBILITY OF THE COMPANY AND/OR THE INDIVIDUAL CONDUCTING PHYSICAL WORKS TO ENSURE AN UP-TO-DATE VERSION OF DIAL BEFORE YOU DIG PLANS IS CONSULTED AND AVAILABLE ON SITE. PHYSICAL WORKS MAY INCLUDE, BUT NOT BE LIMITED TO, EXCAVATING, BORING (HORIZONTAL AND VERTICAL), AND DRILLING.
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Quality Level A (QL-A) is the highest quality level and consists of the positive identification of the attribute and location of a subsurface utility at a point to an absolute spatial position in three dimensions. It is the only quality level that defines a subsurface utility as 'validated'. Where the whole line segment cannot be verified by line of sight, quality level A shall not be attributed to the line segment between validated points. The vertical information for this locating method is to the top or shallowest part of the located service.

BOUNDARY NOTES

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LEGEND

SURVEY CONTROL MARK	*10.75	SURVEY SHOT R.L.	
TELSTRA PIT – DOUBLE	32.987W	TOP OF KERB (CONC.) R.L.	
TELSTRA PIT – SINGLE	32.77S	GUTTER FLOW LINE (CONC.) R.L.	
WATER HYDRANT	32.081X	LIP OF KERB (CONC.) R.L.	
WATER STOP VALVE	25.579W	PRAM RAMP R.L.	
WATER TAP	21.586C	VEHICLE CROSSING R.L.	
SEWER PIT (<1m)	36.637W	TOP OF WALL R.L.	
SEWER UMPHOLE	35.750W	BOTTOM OF WALL R.L.	
SEWER VENT PIPE	23.295L	FLOOR LEVEL R.L.	
POWER POLE	21.644W	AWNING R.L.	
LIGHT	19.835X	COLUMN R.L.	
ELECTRIC LIGHT POLE	26.242W	EDGE OF MEDIAN R.L.	
ELEC. PILLAR	26.383W	TOP OF MEDIAN R.L.	
SMALL ELEC. PIT(<1m)	DR.	DRAINAGE PIT	
SEWER UMPHOLE	UKN	UNKNOWN PIT	
POWER POLE	WCM	WORLDCOM	
TELEPHONE	TRF	TRAFFIC SIGNAL JUNCTION BOX	
UNIDENTIFIED FEATURE	TEL PIT	TELSTRA PIT	
MISC. UNKNOWN PIT (<1m)		BOUNDARY SITE	
GAS VALVE BOX		APPROXIMATE ADJOINING BOUNDARY	
H.P. GAS PIPELINE MARKER		EASEMENT BOUNDARY	
GRATED DRAINAGE PIT		TRAFFIC LINE MARK–BROKEN	
GRATED DRAINAGE PIT– ROUND		TRAFFIC LINE MARK–CONTINUOUS	
GRATED DRAINAGE PIT LID	5.0	DENOTES MAJOR CONTOUR	
SQUARE DRAINAGE PIT		DENOTES MINOR CONTOUR	
ROUND DRAINAGE PIT		TREE: S10.0 =SPREAD; 1.0# =DIAMETER; H10.0 =HEIGHT	
BOLLARD			
SIGN			
RUBBISH BIN			
PARKOMETER			
FLAG POLE			
TRAFFIC PIT/JUNCTION BOX			
TRAFFIC LIGHT			
SURVEY SHOT CROSS			

SHEET AREA: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

MGA

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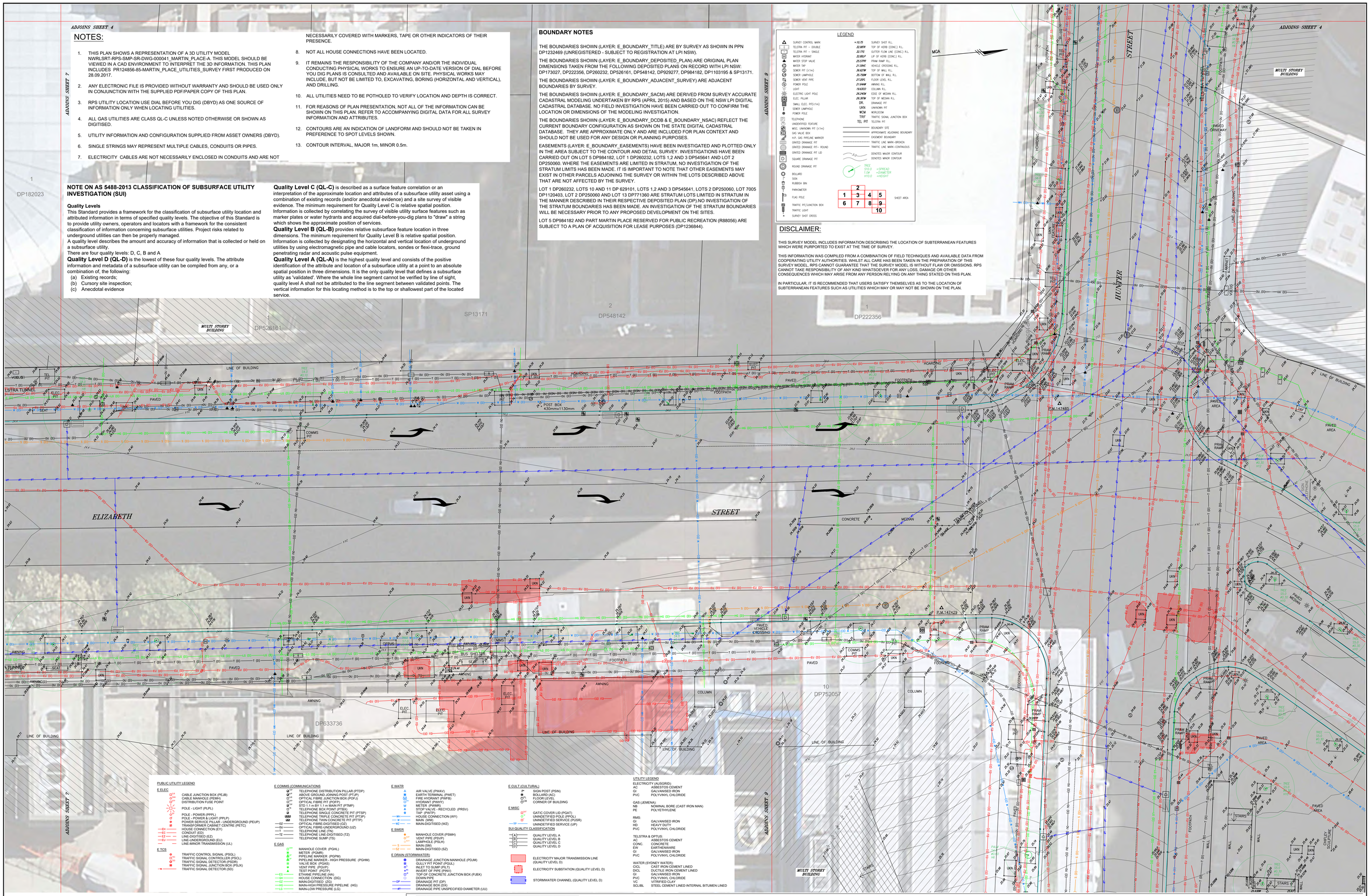

PUBLIC UTILITY LEGEND

E ELEC
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- CABLE MANHOLE (PEMH)
- DISTRIBUTION FUSE POINT
- POLE - LIGHT (PLPL)
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- POWER SERVICE PILLAR - UNDERGROUND (PEUP)
- TRANSFORMER CABINET CENTRE (PETC)
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- TELEPHONE TRIPLE CONCRETE PIT (PTSP)
- TELEPHONE TRIPLE CONCRETE PIT (PTTP)
- OPTICAL FIBRE-DIGITISED (OZ)
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- STOP VALVE - RECYCLED (PRSV)
- TAP (PWTP)
- HOUSE CONNECTION (WY)
- MAIN (WM)
- MAIN-DIGITISED (WZ)

E SWER
- MANHOLE COVER (PSMH)
- VENT PIPE (PSVP)
- LAMPHOLE (PSLH)
- MAIN (SM)
- MAIN-DIGITISED (SZ)

E DRAIN (STORMWATER)
- DRAINAGE JUNCTION MANHOLE (PDJM)
- GULLY PIT POINT (PGUL)
- INLET TO SUMP (PILT)
- INVERT OF PIPE (PINV)
- TOP OF CONCRETE JUNCTION BOX (PJBX)
- DOWN PIPE
- DRAINAGE PIT (DP)
- DRAINAGE BOX (DX)
- DRAINAGE PIPE UNSPECIFIED DIAMETER (UU)

E CULT (CULTURAL)
- SIGN POST (PSIN)
- BOLLARD (AC)
- FLOOR LEVEL
- CORNER OF BUILDING

E MISC
- GATIC COVER LID (PGAT)
- UNINDETIFIED POLE (PPOL)
- UNINDETIFIED SERVICE (PUSR)
- UNINDETIFIED SERVICE (UP)

SUI QUALITY CLASSIFICATION
- QUALITY LEVEL A
- QUALITY LEVEL B
- QUALITY LEVEL C
- QUALITY LEVEL D

- ELECTRICITY MAJOR TRANSMISSION LINE (QUALITY LEVEL D)
- ELECTRICITY SUBSTATION (QUALITY LEVEL D)
- STORMWATER CHANNEL (QUALITY LEVEL D)

UTILITY LEGEND

ELECTRICITY (AUSGRID):
AC ASBESTOS CEMENT
GI GALVANISED IRON
PVC POLYVINYL CHLORIDE

GAS (JEMENA):
NB NOMINAL BORE (CAST IRON MAN)
PE POLYETHYLENE

RMS:
GI GALVANISED IRON
HD HEAVY DUTY
PVC POLYVINYL CHLORIDE

TELSTRA & OPTUS:
AC ASBESTOS CEMENT
CONC. CONCRETE
EW EARTHENWARE
GI GALVANISED IRON
PVC POLYVINYL CHLORIDE

WATER (SYDNEY WATER):
CICL CAST IRON CEMENT LINED
DICL DUCTILE IRON CEMENT LINED
GI GALVANISED IRON
PVC POLYVINYL CHLORIDE
VC VITRIFIED CLAY
SCLIBL STEEL CEMENT LINED-INTERNAL BITUMEN LINED

REVISIONS					
A	03.11.2017	INITIAL VERSION	K.S.	C.M.	S.F.G.
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORZ. SCALE: 1:100 | VERT. SCALE: N/A @ A0 | NOTES

COORDINATES: MGA | DATUM: AHD
ORIGIN: SCIMS | ORIGIN: SCIMS

2 1 0 2 4 6
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

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CLIENT: sydney METRO | city & southwest

SURVEY:	L.C.	DATE OF SURVEY:	31.08.2017
DRAWN:	K.S.	DATE OF PLAN:	03.11.2017
CHECKED:	P.G.	DATE LAST SAVED:	03.11.2017
APPROVED:	P.G.	DATE APPROVED:	03.11.2017

TITLE: PLAN SHOWING DETAIL & LEVELS OF PART OF MARTIN PLACE, ELIZABETH STREET, CASTLEREAGH STREET, HUNTER STREET AND CHIFLEY SQUARE, SYDNEY NSW 2000

DRAWING No: NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A.dwg

JOB No: PR124856 | ISSUE: A

SHEET 8 OF 10 SHEETS | SIZE: A0

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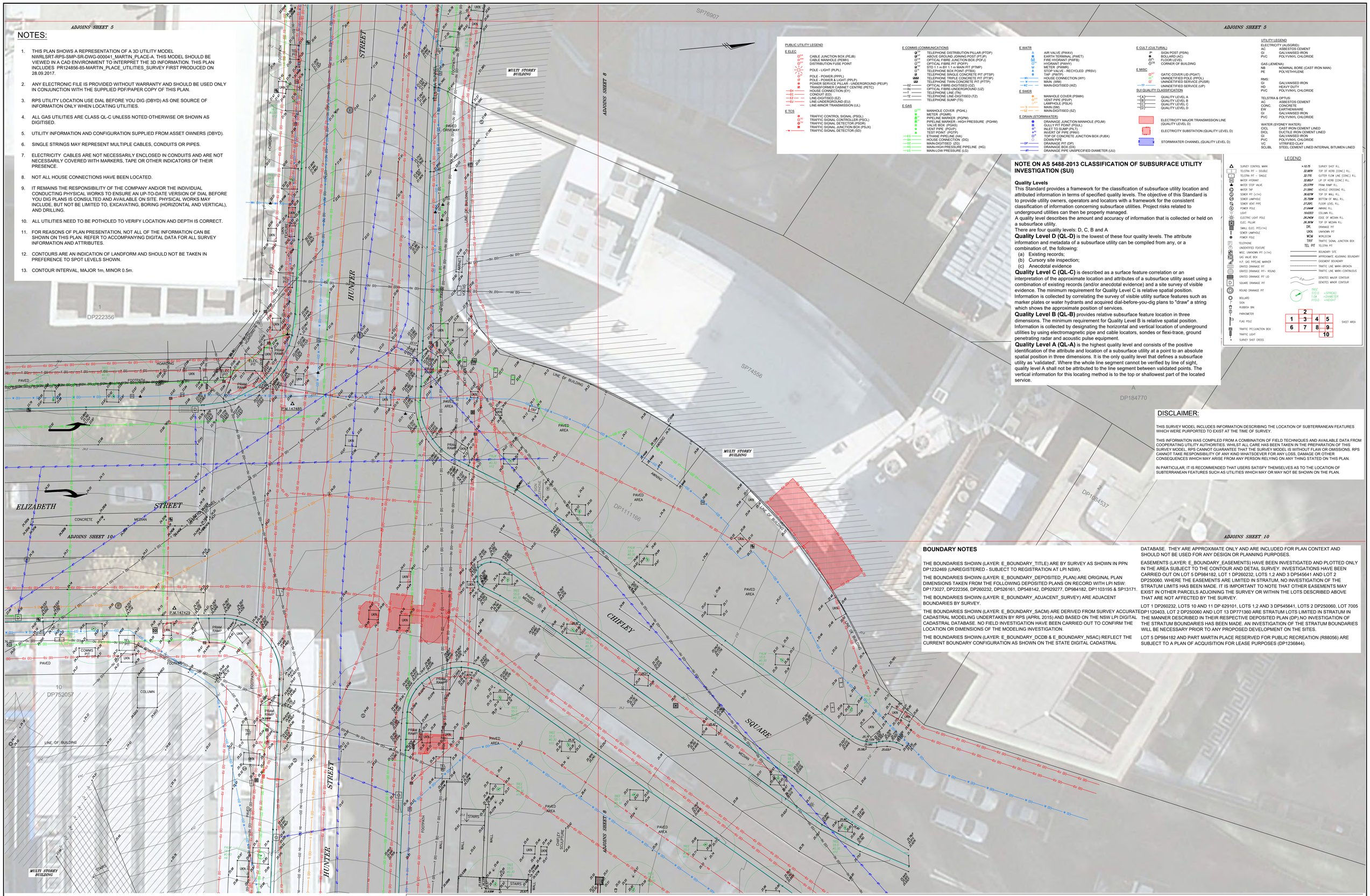

NOTES:

1. THIS PLAN SHOWS A REPRESENTATION OF A 3D UTILITY MODEL NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A. THIS MODEL SHOULD BE VIEWED IN A CAD ENVIRONMENT TO INTERPRET THE 3D INFORMATION. THIS PLAN INCLUDES PR124856-85-MARTIN_PLACE_UTILITIES_SURVEY FIRST PRODUCED ON 28.09.2017.
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4. ALL GAS UTILITIES ARE CLASS QL-C UNLESS NOTED OTHERWISE OR SHOWN AS DIGITISED.
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12. CONTOURS ARE AN INDICATION OF LANDFORM AND SHOULD NOT BE TAKEN IN PREFERENCE TO SPOT LEVELS SHOWN.
13. CONTOUR INTERVAL, MAJOR 1m, MINOR 0.5m.

PUBLIC UTILITY LEGEND

E ELEC
- CABLE JUNCTION BOX (PEJB)
- CABLE MANHOLE (PEMH)
- DISTRIBUTION FUSE POINT
- POLE - LIGHT (PLPL)
- POLE - POWER (PPPL)
- POLE - POWER & LIGHT (PPLP)
- POWER SERVICE PILLAR - UNDERGROUND (PEUP)
- TRANSFORMER CABINET CENTRE (PETC)
- HOUSE CONNECTION (EY)
- CONDUIT (ED)
- LINE-DIGITISED (EZ)
- LINE-UNDERGROUND (EU)
- LINE-MINOR TRANSMISSION (UL)

E TCS
- TRAFFIC CONTROL SIGNAL (PSGL)
- TRAFFIC SIGNAL CONTROLLER (PSCL)
- TRAFFIC SIGNAL DETECTOR (PSDR)
- TRAFFIC SIGNAL JUNCTION BOX (PSJX)
- TRAFFIC SIGNAL DETECTOR (SD)

E COMMS /COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR (PTDP)
- ABOVE GROUND JOINING POST (PTJP)
- OPTICAL FIBRE JUNCTION BOX (POFJ)
- OPTICAL FIBRE PIT (POFP)
- STD 1.1 m BY 1.1 m MAIN PIT (PTMP)
- TELEPHONE BOX POINT (PTBX)
- TELEPHONE SINGLE CONCRETE PIT (PTSP)
- TELEPHONE TRIPLE CONCRETE PIT (PT3P)
- TELEPHONE SINGLE PLASTIC PIT (PTTP)
- OPTICAL FIBRE-DIGITISED (OZ)
- OPTICAL FIBRE-UNDERGROUND (UZ)
- TELEPHONE LINE (TN)
- TELEPHONE LINE-DIGITISED (TZ)
- TELEPHONE SUMP (TS)

E GAS
- MANHOLE COVER (PGHL)
- METER (PGMR)
- PIPELINE MARKER (PGPM)
- PIPELINE MARKER - HIGH PRESSURE (PGHM)
- VALVE BOX (PGAS)
- VENT PIPE (PGVP)
- TEST POINT (PGTP)
- ETHANE PIPELINE (HA)
- HOUSE CONNECTION (DG)
- MAIN-DIGITISED (ZG)
- MAIN-HIGH PRESSURE PIPELINE (HG)
- MAIN-LOW PRESSURE (LG)

E WATR
- AIR VALVE (PWAV)
- EARTH TERMINAL (PWET)
- FIRE HYDRANT (PWFB)
- HYDRANT (PWHY)
- METER (PWMR)
- STOP VALVE - RECYCLED (PRSV)
- TAP (PWTP)
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- CONC. CONCRETE
- EW EARTHENWARE
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- PVC POLYVINYL CHLORIDE

WATER (SYDNEY WATER):
- CICL CAST IRON CEMENT LINED
- DICL DUCTILE IRON CEMENT LINED
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE
- VC VITRIFIED CLAY
- SCLIBL STEEL CEMENT LINED INTERNAL BITUMEN LINED

LEGEND

- SURVEY CONTROL MARK — 12.75 SURVEY SHOT R.L.
- TELSTRA PIT – DOUBLE — 22.661V TOP OF KERB (CONC.) R.L.
- TELSTRA PIT – SINGLE — 22.770 GUTTER FLOW LINE (CONC.) R.L.
- WATER HYDRANT — 32.803F LIP OF KERB (CONC.) R.L.
- WATER STOP VALVE — 25.539R PRAM RAMP R.L.
- WATER TAP — 21.596C VEHICLE CROSSING R.L.
- SEWER PIT (<1m) — 36.425W TOP OF WALL R.L.
- SEWER LAMPHOLE — 35.758W BOTTOM OF WALL R.L.
- SEWER VENT PIPE — 27.239L FLOOR LEVEL R.L.
- POWER POLE — 21.644R AWNING R.L.
- LIGHT — 18.630D COLUMN R.L.
- ELECTRIC LIGHT POLE — 26.245W EDGE OF MEDIAN R.L.
- ELEC. PILLAR — 26.303W TOP OF MEDIAN R.L.
- SMALL ELEC. PIT(<1m) — DR. DRAINAGE PIT
- SEWER LAMPHOLE — UKN UNKNOWN PIT
- POWER POLE — WCM WORLDCOM
- TELEPHONE — TRF TRAFFIC SIGNAL JUNCTION BOX
- UNIDENTIFIED FEATURE — TEL PIT TELSTRA PIT
- MISC. UNKNOWN PIT (<1m)
- GAS VALVE BOX
- H.P. GAS PIPELINE MARKER
- GRATED DRAINAGE PIT
- GRATED DRAINAGE PIT– ROUND
- GRATED DRAINAGE PIT LID
- SQUARE DRAINAGE PIT
- ROUND DRAINAGE PIT
- BOLLARD
- SIGN
- RUBBISH BIN
- PARKOMETER
- FLAG POLE
- TRAFFIC PIT/JUNCTION BOX
- TRAFFIC LIGHT
- SURVEY SHOT CROSS

- BOUNDARY SITE
- APPROXIMATE ADJOINING BOUNDARY
- EASEMENT BOUNDARY
- TRAFFIC LINE MARK–BROKEN
- TRAFFIC LINE MARK–CONTINUOUS
- DENOTES MAJOR CONTOUR
- DENOTES MINOR CONTOUR

TREE
D10.0 =SPREAD
T.0M =DIAMETER
HT5.0 =HEIGHT

SHEET AREA: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

NOTE ON AS 5488-2013 CLASSIFICATION OF SUBSURFACE UTILITY INVESTIGATION (SUI)

Quality Levels

This Standard provides a framework for the classification of subsurface utility location and attributed information in terms of specified quality levels. The objective of this Standard is to provide utility owners, operators and locators with a framework for the consistent classification of information concerning subsurface utilities. Project risks related to underground utilities can then be properly managed.

A quality level describes the amount and accuracy of information that is collected or held on a subsurface utility.

There are four quality levels: D, C, B and A

Quality Level D (QL-D) is the lowest of these four quality levels. The attribute information and metadata of a subsurface utility can be compiled from any, or a combination of, the following:

(a) Existing records;
(b) Cursory site inspection;
(c) Anecdotal evidence

Quality Level C (QL-C) is described as a surface feature correlation or an interpretation of the approximate location and attributes of a subsurface utility asset using a combination of existing records (and/or anecdotal evidence) and a site survey of visible evidence. The minimum requirement for Quality Level C is relative spatial position. Information is collected by correlating the survey of visible utility surface features such as marker plates or water hydrants and acquired dial-before-you-dig plans to "draw" a string which shows the approximate position of services.

Quality Level B (QL-B) provides relative subsurface feature location in three dimensions. The minimum requirement for Quality Level B is relative spatial position. Information is collected by designating the horizontal and vertical location of underground utilities by using electromagnetic pipe and cable locators, sondes or flexi-trace, ground penetrating radar and acoustic pulse equipment.

Quality Level A (QL-A) is the highest quality level and consists of the positive identification of the attribute and location of a subsurface utility at a point to an absolute spatial position in three dimensions. It is the only quality level that defines a subsurface utility as 'validated'. Where the whole line segment cannot be verified by line of sight, quality level A shall not be attributed to the line segment between validated points. The vertical information for this locating method is to the top or shallowest part of the located service.

DISCLAIMER:

THIS SURVEY MODEL INCLUDES INFORMATION DESCRIBING THE LOCATION OF SUBTERRANEAN FEATURES WHICH WERE PURPORTED TO EXIST AT THE TIME OF SURVEY.

THIS INFORMATION WAS COMPILED FROM A COMBINATION OF FIELD TECHNIQUES AND AVAILABLE DATA FROM COOPERATING UTILITY AUTHORITIES. WHILST ALL CARE HAS BEEN TAKEN IN THE PREPARATION OF THIS SURVEY MODEL, RPS CANNOT GUARANTEE THAT THE SURVEY MODEL IS WITHOUT FLAW OR OMISSIONS. RPS CANNOT TAKE RESPONSIBILITY OF ANY KIND WHATSOEVER FOR ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON ANY THING STATED ON THIS PLAN.

IN PARTICULAR, IT IS RECOMMENDED THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES SUCH AS UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.

BOUNDARY NOTES

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_TITLE) ARE BY SURVEY AS SHOWN IN PPN DP1232469 (UNREGISTERED - SUBJECT TO REGISTRATION AT LPI NSW).

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_DEPOSITED_PLAN) ARE ORIGINAL PLAN DIMENSIONS TAKEN FROM THE FOLLOWING DEPOSITED PLANS ON RECORD WITH LPI NSW: DP173027, DP222356, DP260232, DP526161, DP548142, DP929277, DP984182, DP1103195 & SP13171.

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_ADJACENT_SURVEY) ARE ADJACENT BOUNDARIES BY SURVEY.

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_SACM) ARE DERIVED FROM SURVEY ACCURATE CADASTRAL MODELING UNDERTAKEN BY RPS (APRIL 2015) AND BASED ON THE NSW LPI DIGITAL CADASTRAL DATABASE. NO FIELD INVESTIGATION HAVE BEEN CARRIED OUT TO CONFIRM THE LOCATION OR DIMENSIONS OF THE MODELING INVESTIGATION.

THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_DCDB & E_BOUNDARY_NSAC) REFLECT THE CURRENT BOUNDARY CONFIGURATION AS SHOWN ON THE STATE DIGITAL CADASTRAL DATABASE. THEY ARE APPROXIMATE ONLY AND ARE INCLUDED FOR PLAN CONTEXT AND SHOULD NOT BE USED FOR ANY DESIGN OR PLANNING PURPOSES.

EASEMENTS (LAYER: E_BOUNDARY_EASEMENTS) HAVE BEEN INVESTIGATED AND PLOTTED ONLY IN THE AREA SUBJECT TO THE CONTOUR AND DETAIL SURVEY. INVESTIGATIONS HAVE BEEN CARRIED OUT ON LOT 5 DP984182, LOT 1 DP260232, LOTS 1,2 AND 3 DP545641 AND LOT 2 DP250060. WHERE THE EASEMENTS ARE LIMITED IN STRATUM, NO INVESTIGATION OF THE STRATUM LIMITS HAS BEEN MADE. IT IS IMPORTANT TO NOTE THAT OTHER EASEMENTS MAY EXIST IN OTHER PARCELS ADJOINING THE SURVEY OR WITHIN THE LOTS DESCRIBED ABOVE THAT ARE NOT AFFECTED BY THE SURVEY.

LOT 1 DP260232, LOTS 10 AND 11 DP 629101, LOTS 1,2 AND 3 DP545641, LOTS 2 DP250060, LOT 7005 DP1120403, LOT 2 DP250060 AND LOT 13 DP771360 ARE STRATUM LOTS LIMITED IN STRATUM IN THE MANNER DESCRIBED IN THEIR RESPECTIVE DEPOSITED PLAN (DP).NO INVESTIGATION OF THE STRATUM BOUNDARIES HAS BEEN MADE. AN INVESTIGATION OF THE STRATUM BOUNDARIES WILL BE NECESSARY PRIOR TO ANY PROPOSED DEVELOPMENT ON THE SITES.

LOT 5 DP984182 AND PART MARTIN PLACE RESERVED FOR PUBLIC RECREATION (R88056) ARE SUBJECT TO A PLAN OF ACQUISITION FOR LEASE PURPOSES (DP1236844).

No.	DATE	REVISION DETAILS	DRAWN	CHK	APP
A	03.11.2017	INITIAL VERSION	K.S.	C.M.	S.F.G.

REVISIONS

HORIZ. SCALE: 1:100 | VERT. SCALE: N/A @ A0
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2 1 0 2 4 6
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

CLIENT: Sydney METRO | city & southwest

SURVEY:	L.C.	DATE OF SURVEY:	31.08.2017
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TITLE: PLAN SHOWING DETAIL & LEVELS OF PART OF MARTIN PLACE, ELIZABETH STREET, CASTLEREAGH STREET, HUNTER STREET AND CHIFLEY SQUARE, SYDNEY NSW 2000

DRAWING No: NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A.dwg

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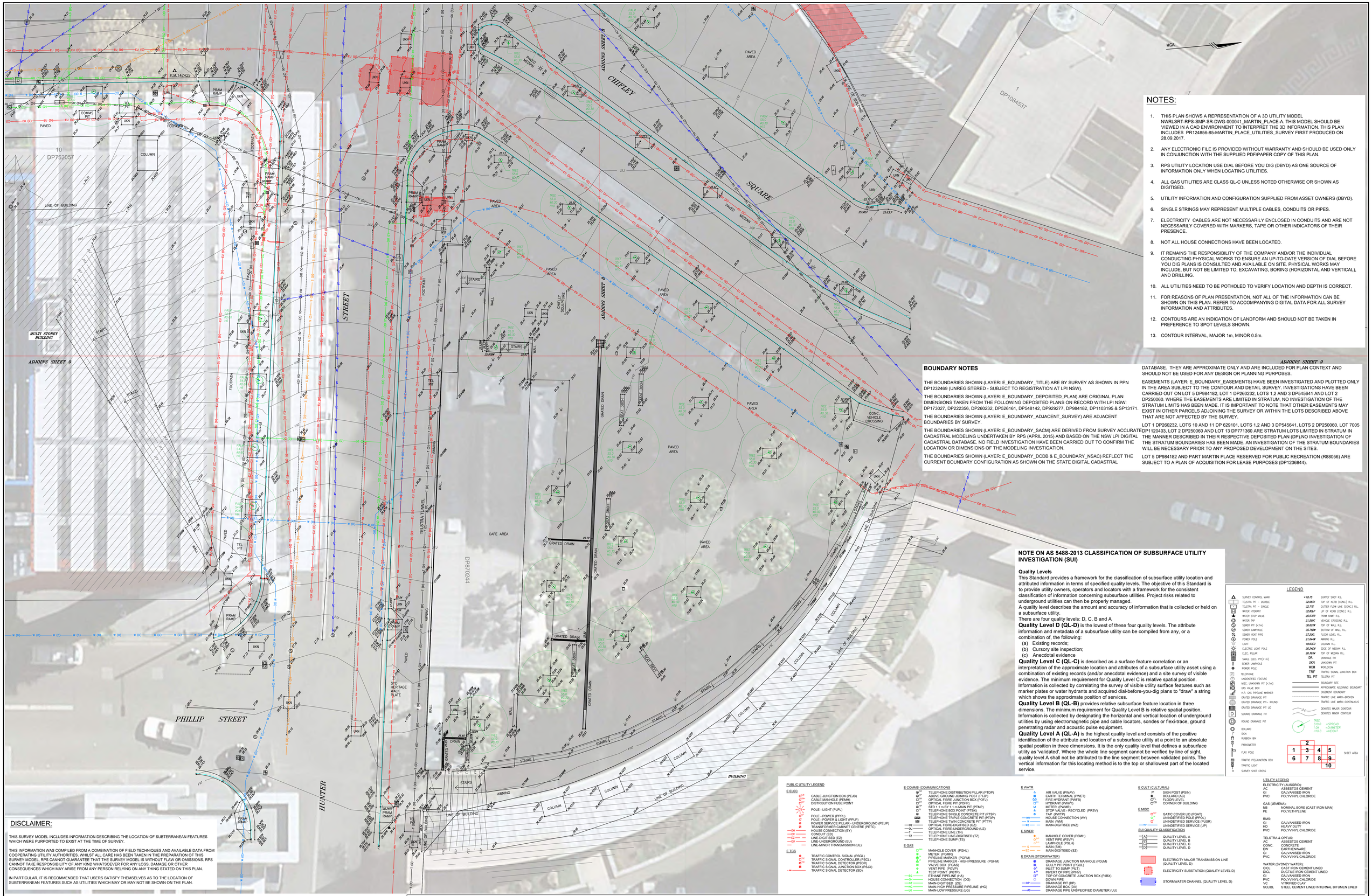

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THE BOUNDARIES SHOWN (LAYER: E_BOUNDARY_DCDB & E_BOUNDARY_NSAC) REFLECT THE CURRENT BOUNDARY CONFIGURATION AS SHOWN ON THE STATE DIGITAL CADASTRAL DATABASE. THEY ARE APPROXIMATE ONLY AND ARE INCLUDED FOR PLAN CONTEXT AND SHOULD NOT BE USED FOR ANY DESIGN OR PLANNING PURPOSES.

EASEMENTS (LAYER: E_BOUNDARY_EASEMENTS) HAVE BEEN INVESTIGATED AND PLOTTED ONLY IN THE AREA SUBJECT TO THE CONTOUR AND DETAIL SURVEY. INVESTIGATIONS HAVE BEEN CARRIED OUT ON LOT 5 DP984182, LOT 1 DP260232, LOTS 1,2 AND 3 DP545641 AND LOT 2 DP250060. WHERE THE EASEMENTS ARE LIMITED IN STRATUM, NO INVESTIGATION OF THE STRATUM LIMITS HAS BEEN MADE. IT IS IMPORTANT TO NOTE THAT OTHER EASEMENTS MAY EXIST IN OTHER PARCELS ADJOINING THE SURVEY OR WITHIN THE LOTS DESCRIBED ABOVE THAT ARE NOT AFFECTED BY THE SURVEY.

LOT 1 DP260232, LOTS 10 AND 11 DP 629101, LOTS 1,2 AND 3 DP545641, LOTS 2 DP250060, LOT 7005 DP1120403, LOT 2 DP250060 AND LOT 13 DP771360 ARE STRATUM LOTS LIMITED IN STRATUM IN THE MANNER DESCRIBED IN THEIR RESPECTIVE DEPOSITED PLAN (DP).NO INVESTIGATION OF THE STRATUM BOUNDARIES HAS BEEN MADE. AN INVESTIGATION OF THE STRATUM BOUNDARIES WILL BE NECESSARY PRIOR TO ANY PROPOSED DEVELOPMENT ON THE SITES.

LOT 5 DP984182 AND PART MARTIN PLACE RESERVED FOR PUBLIC RECREATION (R88056) ARE SUBJECT TO A PLAN OF ACQUISITION FOR LEASE PURPOSES (DP1236844).

NOTE ON AS 5488-2013 CLASSIFICATION OF SUBSURFACE UTILITY INVESTIGATION (SUI)

Quality Levels

This Standard provides a framework for the classification of subsurface utility location and attributed information in terms of specified quality levels. The objective of this Standard is to provide utility owners, operators and locators with a framework for the consistent classification of information concerning subsurface utilities. Project risks related to underground utilities can then be properly managed.

A quality level describes the amount and accuracy of information that is collected or held on a subsurface utility.

There are four quality levels: D, C, B and A

Quality Level D (QL-D) is the lowest of these four quality levels. The attribute information and metadata of a subsurface utility can be compiled from any, or a combination of, the following:

(a) Existing records;
(b) Cursory site inspection;
(c) Anecdotal evidence

Quality Level C (QL-C) is described as a surface feature correlation or an interpretation of the approximate location and attributes of a subsurface utility asset using a combination of existing records (and/or anecdotal evidence) and a site survey of visible evidence. The minimum requirement for Quality Level C is relative spatial position. Information is collected by correlating the survey of visible utility surface features such as marker plates or water hydrants and acquired dial-before-you-dig plans to "draw" a string which shows the approximate position of services.

Quality Level B (QL-B) provides relative subsurface feature location in three dimensions. The minimum requirement for Quality Level B is relative spatial position. Information is collected by designating the horizontal and vertical location of underground utilities by using electromagnetic pipe and cable locators, sondes or flexi-trace, ground penetrating radar and acoustic pulse equipment.

Quality Level A (QL-A) is the highest quality level and consists of the positive identification of the attribute and location of a subsurface utility at a point to an absolute spatial position in three dimensions. It is the only quality level that defines a subsurface utility as 'validated'. Where the whole line segment cannot be verified by line of sight, quality level A shall not be attributed to the line segment between validated points. The vertical information for this locating method is to the top or shallowest part of the located service.

LEGEND

SURVEY CONTROL MARK	10.75 SURVEY SHOT R.L.
TELSTRA PIT – DOUBLE	32.985V TOP OF KERB (CONC.) R.L.
TELSTRA PIT – SINGLE	32.77C GUTTER FLOW LINE (CONC.) R.L.
WATER HYDRANT	32.852F LIP OF KERB (CONC.) R.L.
WATER STOP VALVE	25.57PR PRAM RAMP R.L.
WATER TAP	21.58VC VEHICLE CROSSING R.L.
SEWER PIT (<1m)	30.42TW TOP OF WALL R.L.
SEWER LAMPHOLE	25.75BW BOTTOM OF WALL R.L.
SEWER VENT PIPE	27.23FL FLOOR LEVEL R.L.
POWER POLE	21.64AW AWNING R.L.
LIGHT	19.63CO COLUMN R.L.
ELECTRIC LIGHT POLE	26.24EW EDGE OF MEDIAN R.L.
ELEC. PILLAR	26.30TM TOP OF MEDIAN R.L.
SMALL ELEC. PIT(<1m)	DR. DRAINAGE PIT
SEWER LAMPHOLE	UKN UNKNOWN PIT
POWER POLE	WCM WORLDCOM
TELEPHONE	TRF TRAFFIC SIGNAL JUNCTION BOX
UNIDENTIFIED FEATURE	TEL PIT TELSTRA PIT
MISC. UNKNOWN PIT (<1m)	BOUNDARY SITE
GAS VALVE BOX	APPROXIMATE ADJOINING BOUNDARY
H.P. GAS PIPELINE MARKER	EASEMENT BOUNDARY
GRATED DRAINAGE PIT	TRAFFIC LINE MARK–BROKEN
GRATED DRAINAGE PIT– ROUND	TRAFFIC LINE MARK–CONTINUOUS
GRATED DRAINAGE PIT LID	5.0 DENOTES MAJOR CONTOUR
SQUARE DRAINAGE PIT	DENOTES MINOR CONTOUR
ROUND DRAINAGE PIT	TREE D:0.0 =SPREAD T:0.0 =DIAMETER H:0.0 =HEIGHT
BOLLARD	SHEET AREA
SIGN	
RUBBISH BIN	
PARKOMETER	
FLAG POLE	
TRAFFIC PIT/JUNCTION BOX	
TRAFFIC LIGHT	
SURVEY SHOT CROSS	

PUBLIC UTILITY LEGEND

E ELEC
- CABLE JUNCTION BOX (PEJB)
- CABLE MANHOLE (PEMH)
- DISTRIBUTION FUSE POINT
- POLE - LIGHT (PLPL)
- POLE - POWER (PPPL)
- POLE - POWER & LIGHT (PPLP)
- POWER SERVICE PILLAR - UNDERGROUND (PEUP)
- TRANSFORMER CABINET CENTRE (PETC)
- HOUSE CONNECTION (EY)
- CONDUIT (ED)
- LINE-DIGITISED (EZ)
- LINE-UNDERGROUND (EU)
- LINE-MINOR TRANSMISSION (UL)

E TCS
- TRAFFIC CONTROL SIGNAL (PSGL)
- TRAFFIC SIGNAL CONTROLLER (PSCL)
- TRAFFIC SIGNAL DETECTOR (PSDR)
- TRAFFIC SIGNAL JUNCTION BOX (PSJX)
- TRAFFIC SIGNAL DETECTOR (SD)

E COMMS (COMMUNICATIONS)
- TELEPHONE DISTRIBUTION PILLAR (PTDP)
- ABOVE GROUND JOINING POST (PTJP)
- OPTICAL FIBRE JUNCTION BOX (POFJ)
- OPTICAL FIBRE PIT (POFP)
- STD 1.1 m BY 1.1 m MAIN PIT (PTMP)
- TELEPHONE BOX POINT (PTBX)
- TELEPHONE SINGLE CONCRETE PIT (PTSP)
- TELEPHONE TRIPLE CONCRETE PIT (PTSP)
- TELEPHONE TWIN CONCRETE PIT (PTTP)
- OPTICAL FIBRE-DIGITISED (OZ)
- OPTICAL FIBRE-UNDERGROUND (UZ)
- TELEPHONE LINE (TN)
- TELEPHONE LINE-DIGITISED (TZ)
- TELEPHONE SUMP (TS)

E GAS
- MANHOLE COVER (PGHL)
- METER (PGMR)
- PIPELINE MARKER (PGPM)
- PIPELINE MARKER - HIGH PRESSURE (PGHM)
- VALVE BOX (PGAS)
- VENT PIPE (PGVP)
- TEST POINT (PGTP)
- ETHANE PIPELINE (HA)
- HOUSE CONNECTION (DG)
- MAIN-DIGITISED (ZG)
- MAIN-HIGH PRESSURE PIPELINE (HG)
- MAIN-LOW PRESSURE (LG)

E WATR
- AIR VALVE (PWAV)
- EARTH TERMINAL (PWET)
- FIRE HYDRANT (PWFB)
- HYDRANT (PWHY)
- METER (PWMR)
- STOP VALVE - RECYCLED (PRSV)
- TAP (PWTP)
- HOUSE CONNECTION (WY)
- MAIN (WM)
- MAIN-DIGITISED (WZ)

E SWER
- MANHOLE COVER (PSMH)
- VENT PIPE (PSVP)
- LAMPHOLE (PSLH)
- MAIN (SM)
- MAIN-DIGITISED (SZ)

E DRAIN (STORMWATER)
- DRAINAGE JUNCTION MANHOLE (PDJM)
- GULLY PIT POINT (PGUL)
- INLET TO SUMP (PILT)
- INVERT OF PIPE (PINV)
- TOP OF CONCRETE JUNCTION BOX (PJBX)
- DOWN PIPE
- DRAINAGE PIT (DP)
- DRAINAGE BOX (DX)
- DRAINAGE PIPE UNSPECIFIED DIAMETER (UU)

E CULT (CULTURAL)
- SIGN POST (PSIN)
- BOLLARD (AC)
- FLOOR LEVEL
- CORNER OF BUILDING

E MISC
- GATIC COVER LID (PGAT)
- UNINDETIFIED POLE (PPOL)
- UNINDETIFIED SERVICE (PUSR)
- UNINDETIFIED SERVICE (UP)

SUI QUALITY CLASSIFICATION
- QUALITY LEVEL A
- QUALITY LEVEL B
- QUALITY LEVEL C
- QUALITY LEVEL D

- ELECTRICITY MAJOR TRANSMISSION LINE (QUALITY LEVEL D)
- ELECTRICITY SUBSTATION (QUALITY LEVEL D)
- STORMWATER CHANNEL (QUALITY LEVEL D)

UTILITY LEGEND

ELECTRICITY (AUSGRID):
- AC ASBESTOS CEMENT
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE

GAS (JEMENA):
- NB NOMINAL BORE (CAST IRON MAN)
- PE POLYETHYLENE

RMS:
- GI GALVANISED IRON
- HD HEAVY DUTY
- PVC POLYVINYL CHLORIDE

TELSTRA & OPTUS:
- AC ASBESTOS CEMENT
- CONC. CONCRETE
- EW EARTHENWARE
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE

WATER (SYDNEY WATER):
- CICL CAST IRON CEMENT LINED
- DICL DUCTILE IRON CEMENT LINED
- GI GALVANISED IRON
- PVC POLYVINYL CHLORIDE
- VC VITRIFIED CLAY
- SCLIBL STEEL CEMENT LINED INTERNAL BITUMEN LINED

DISCLAIMER:

THIS SURVEY MODEL INCLUDES INFORMATION DESCRIBING THE LOCATION OF SUBTERRANEAN FEATURES WHICH WERE PURPORTED TO EXIST AT THE TIME OF SURVEY.

THIS INFORMATION WAS COMPILED FROM A COMBINATION OF FIELD TECHNIQUES AND AVAILABLE DATA FROM COOPERATING UTILITY AUTHORITIES. WHILST ALL CARE HAS BEEN TAKEN IN THE PREPARATION OF THIS SURVEY MODEL, RPS CANNOT GUARANTEE THAT THE SURVEY MODEL IS WITHOUT FLAW OR OMISSIONS. RPS CANNOT TAKE RESPONSIBILITY OF ANY KIND WHATSOEVER FOR ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON ANY THING STATED ON THIS PLAN.

IN PARTICULAR, IT IS RECOMMENDED THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES SUCH AS UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.

REVISION					
A	03.11.2017	INITIAL VERSION	K.S.	C.M.	S.F.G.
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORZ. SCALE: 1:100 | VERT. SCALE: N/A @ A0 | NOTES

COORDINATES: MGA | DATUM: AHD
ORIGIN: SCIMS | ORIGIN: SCIMS

SCALE IN METRES AT ORIGINAL REDUCTION RATIO

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CLIENT: sydney METRO | city & southwest

SURVEY:	L.C.	DATE OF SURVEY:	31.08.2017
DRAWN:	K.S.	DATE OF PLAN:	03.11.2017
CHECKED:	P.G.	DATE LAST SAVED:	03.11.2017
APPROVED:	P.G.	DATE APPROVED:	03.11.2017

TITLE: PLAN SHOWING DETAIL & LEVELS OF PART OF MARTIN PLACE, ELIZABETH STREET, CASTLEREAGH STREET, HUNTER STREET AND CHIFLEY SQUARE, SYDNEY NSW 2000

DRAWING No: NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A.dwg

JOB No: PR124856 | ISSUE: A

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P:\PR124856 - SRT\85_Metron-Detail Surveys\10 - Drafting\Survey\2. Detail\MARTIN PLACE\NWRLSRT-RPS-SMP-SR-DWG-000041_MARTIN_PLACE-A.dwg 03.11.2017 2:26 PM

Appendix E: Sydney Water Email

From: Stormwater <Stormwater@sydneywater.com.au>
Sent: Wednesday, 7 February 2018 11:44 AM
To: Nicholas Rouggos
Cc: Nick Howard; Greg Shargorodsky
Subject: RE: PSD & SSR Requirement (Metro Martin Place - South and North Towers)

Follow Up Flag: Follow up
Flag Status: Completed

Nicholos,

You can use the following On Site Detention parameters for the both North and South towers:

- On Site Detention 16 cubic meters for every 1000 square meters of site area
- Permissible Site Discharge 36 L/s for every 1000 square meters of site area

You may design oversizing On Site Detention tank to compensate by pass area such a way that total Permissible Site Discharge remain same for your development site.

Generally, more than 30% of the site area should not be by passed. However individual circumstances can be considered on its merit basis.

Best Regards

Jeya Jeyadevan | **Senior Capability Assessor**

Customer Delivery | Sydney Water
Level 7, 1 Smith St Parramatta NSW 2150
PO Box 399 Parramatta NSW 2124
T 8849 6118 | **Mobile** 0409 318 827 | **Email** jeya.jeyadevan@sydneywater.com.au
sydneywater.com.au

From: Nicholas Rouggos [mailto:Nicholas.Rouggos@arup.com]
Sent: Friday, 2 February 2018 4:04 PM
To: Stormwater <Stormwater@sydneywater.com.au>
Cc: Nick Howard <Nick.Howard@arup.com>; Greg Shargorodsky <Greg.Shargorodsky@arup.com>
Subject: PSD & SSR Requirement (Metro Martin Place - South and North Towers)

To Land & Water Ways Team,

We require guidance on PSD and SSR requirements for proposed towers over Martin Place Metro Station.

For your information to understand the proposed development
http://www.planning.nsw.gov.au/Assess-and-Regulate/Projects/Martin-Place/~/media/96D2E03E792746EE83FA747A9FF6C0EF.ashx

There are 3 separate sections as part of this development

1. Underground Station (includes Martin Place Plaza)
2. South Tower Over Station

3. North Tower Over Station

<u>Underground Station</u>
With regards to the underground station we currently assume OSD is required as towers over will have OSD tanks for the site areas. Martin Place Plaza is a public corridor and hence in line with road corridor does not require detention.

<u>South Tower</u>
Development Address: Refer to image below

Area: 1920m2

<u>North Tower</u>
Development Address: Refer to image below (combines 7 existing lots/ buildings)

Area: 3380m2

Due to the shape of the this tower (shown below) and the limited room in the station basement for tanks; we are proposing to collect around 70% of the catchment at high level and oversize OSD tanks to compensate for flow not attenuated by OSD, to still achieve the PSD off the site. The guidance online suggests that 10% bypass is allowed only. Does SydneyWater allow for oversizing tanks to still achieve PSD off the total area of the site, factoring bypass up to the 100yr ARI event?

For both developments there is effectively no change in impervious area as both in the current situation and proposal the sites are completely built out with nominal vegetation.

More than happy to run through it over the phone as it is a complex development. Fundamentally we are looking for a PSD/ SSR requirement per hectare for both towers to assist in sizing tanks.

Have a nice weekend.

Kind Regards,

Nicholas Rouggos
Civil Engineer | NSW Transport and Resources
BEng (Civil)(Hons)

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