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# Appendix BB

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## Site survey

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EXPLANATORY NOTES:

- THIS MODEL SHOULD BE VIEWED IN A CAD ENVIRONMENT TO INTERPRET THE 3D INFORMATION.
- ANY ELECTRONIC FILE IS PROVIDED WITHOUT WARRANTY AND SHOULD BE USED ONLY IN CONJUNCTION WITH THE SUPPLIED PDF/IMAGE COPY OF THIS PLAN.
- THESE NOTES ARE AN INTEGRAL PART OF THE DIGITAL DATA FILE AND SHOULD BE READ WITH THE DATA FILE AND MUST NOT BE REMOVED FROM THE DATA FILE.
- NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE IN THE PREPARATION OF THIS DETAIL SURVEY.
- IT REMAINS THE RESPONSIBILITY OF THOSE CONDUCTING PHYSICAL WORKS TO ENSURE AN UP-TO-DATE VERSION OF DIAL BEFORE YOU DIG PLANS IS CONSULTED AND AVAILABLE ON SITE.
- ALL UTILITIES SHOULD BE POTHOLED TO VERIFY LOCATION AND DEPTH.
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- THIS: SURVEY PLAN REPRESENTS THE LOCATION OF FEATURES THAT WERE ACCESSIBLE AND VISIBLE AT THE TIME OF SURVEY.
- FOR REASONS OF PLAN PRESENTATION, NOT ALL THE INFORMATION CAN BE SHOWN ON THIS PLAN. PLEASE REFER TO ACCOMPANYING DIGITAL DATA FOR ALL SURVEY INFORMATION AND ATTRIBUTES.
- THIS SURVEY IS ON MGA2020 PROJECT COORDINATES AS ESTABLISHED FOR THE INVESTIGATION CORRIDOR WITH GRID

DISTANCES, REDUCED LEVELS ARE BASED ON AUSTRALIAN HEIGHT DATUM (AHD71) AS ESTABLISHED BY PROJECT CONTROL.

- RPS HAS UNDERTAKEN A RIGOROUS LEAST SQUARES RE-ADJUSTMENT OF THE PRIMARY CONTROL SURVEY NETWORK (UTILISING ADJUSTED FIELD DATA ) WHICH CONNECTS TO THE NSW GOVERNMENT PUBLISHED MGA2020 SCMS VALUES FOR MARKS THAT FORM PART OF THE GREATER SYDNEY SUBSPINE NETWORK (SEE REPORT SMWSDS-RPS-1NL-SR-REP-000048-B) RPS HAVE THEN INVESTIGATED THE VARIOUS MATHEMATICAL MODELS AVAILABLE FOR THE TRANSFORMATION OF DATA FROM MGA94 TO MGA2020 AND HAVE FOUND THAT:  
A) THE METHOD WHICH ALIGNS MOST CLOSELY WITH THE RE-ADJUSTED PRIMARY SURVEY CONTROL IS A BLOCK SHIFT OF +0.461 EAST AND 1.445 NORTH (WITHIN 11MM).  
B) OTHER METHODS OF TRANSFORMATION (SEVEN-PARAMETERS, CONFORMAL GRID, AND CONFORMAL + DISTORTION GRID) RESULT IN DIFFERENCES OF UP TO 44MM. CONSEQUENTLY, THIS REVISION B HAS BEEN HORIZONTALLY SHIFTED 0.461 EAST AND 1.445 NORTH FROM REVISION A FOR THE PURPOSE OF CHANGING THE CO-ORDINATE SYSTEM FROM MGA94 TO MGA2020.
- CONTEXTUAL BOUNDARIES SHOWN HAVE BEEN TAKEN FROM NSW DIGITAL CADASTRAL DATABASE (DCDB) DATED MAY 2021 AND HAVE NOT BEEN VERIFIED BY SURVEY AND ARE FOR CONTEXT PURPOSES ONLY. NO INVESTIGATION OF LAND TITLES HAS BEEN CONDUCTED. SEE PROJECT SURVEY ADJUSTED CADASTRAL MODEL (SACM) FOR SYDNEY METRO PROJECT SITE BOUNDARIES AS PER NOTE 25.
- CONTOURS ARE AN INDICATION OF LANDFORM AND SHOULD NOT BE TAKEN IN PREFERENCE TO SPOT LEVELS SHOWN.
- LIMITED SURVEY INFORMATION IS AVAILABLE IN AREAS DENOTED INACCESSIBLE, CONTOURS AND TRIANGULATION IN THESE AREAS SHOULD BE TREATED AS APPROXIMATE ONLY.
- CONTOUR INTERVAL SHOWN IS 1.0 MAJOR AND 0.20 MINOR.
- LEVELS OF FEATURES ABOVE GROUND LEVEL SUCH AS BUILDING EAVES, GUTTERS, BALCONIES, ROOF RIDGES AND TOPS OF

- WALLS ARE SHOWN WITH BRACKETS.
- ROOF RIDGES, EAVES, GUTTERS, AWNINGS AND OTHER ABOVE GROUND SITE FEATURES HAVE BEEN SURVEYED BY AN INDIRECT METHOD. IF SPECIFIC ABOVE GROUND SITE FEATURES ARE CRITICAL TO DESIGN OR CONSTRUCTION, RPS RECOMMEND ADDITIONAL SURVEY WORK TO CONFIRM THE LOCATION AND ELEVATION OF THOSE SPECIFIC ABOVE GROUND SITE FEATURES BY A DIRECT METHOD.
- BUILDING FOOTPRINTS SHOWN ARE AT GROUND LEVEL. FOOTPRINTS MAY DIFFER AT OTHER LEVELS.
- ONLY SIGNIFICANT TREES ON THE SUBJECT SITE WITH A TRUNK DIAMETER OF 300MM OR GREATER HAVE BEEN SURVEYED. SMALLER TREES AND SHRUBS EXIST ON SITE. NO TREE TAGS HAVE BEEN PLACED.
- OVERHEAD WIRES HAVE NOT BEEN LOCATED AS PART OF THIS SURVEY.
- BUILDING HATCHING SHOWN IS INDICATIVE ONLY. LINEWORK IN LAYER "E-BUILD\_Building\_Walls" SHOWS THE LOCATION OF THE EXTERNAL FACE OF THE ACCESSIBLE BUILDINGS AT GROUND LEVEL AT THE TIME OF SURVEY.
- FOR PLAN PRESENTATION PURPOSES BUILDING ADDRESSES HAVE BEEN OMITTED FROM THIS PLAN.
- THIS SURVEY IS INCOMPLETE DUE TO RESTRICTIONS ACROSS SIGNIFICANT PARTS OF SITE WHICH LIMITED SAFE ACCESS TO CONDUCT THE SURVEY.
- THESE PLANS ARE A REPRESENTATION OF THE SURVEYED DATA AT THE DATE OF REVISION A SHOWN. NO ADDITIONAL FIELD SURVEY HAS BEEN UNDERTAKEN SINCE REVISION A. THE DATA IS CURRENT TO REVISION A ONLY. REVISION B HAS TRANSFORMED THE DATA FROM MGA1994 TO MGA2020 ONLY AND HAS NOT ADDED ANY ADDITIONAL DATA.
- SURVEY ADJUSTED CADASTRAL MODEL (SACM) HAS BEEN ATTACHED TO THIS DRAWING AS AN XREF. REFER TO LATEST DELIVERY OF (SMWSDS-RPS-SWD-DWG-000074-B-SACM DWG output.dwg) AND THE SACM REPORT REF: SMWSDS-RPS-SWD-SR-REP-000071-B-SACM REPORT WHEN USING THE PROJECT'S SITE BOUNDARIES FILE.

- 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)
  - GARDEN LIGHT (PLGN)
  - POWER SERVICE PILLAR - UNDERGROUND (PEUP)
  - TRANSFORMER CABINET CENTRE (PETC)
  - LIGHT WITH OUTREACH (LI)
- E TCS**
- TRAFFIC CONTROL SIGNAL (PSGL)
  - TRAFFIC SIGNAL CONTROLLER (PSCL)
  - TRAFFIC SIGNAL DETECTOR (PSDR)
  - TRAFFIC SIGNAL JUNCTION BOX (PSJX)
  - TRAFFIC LIGHT WITH OUTREACH (TO)
- 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 POLE (PTPL)
  - TELEPHONE SINGLE CONCRETE PIT (PTSP)
  - TELEPHONE TRIPLE CONCRETE PIT (PT3P)
  - TELEPHONE TWIN CONCRETE PIT (PTTP)
- E GAS**
- MANHOLE COVER (PGHL)
  - METER (PGMR)
  - PIPELINE MARKER (PGPM)
  - PIPELINE MARKER - HIGH PRESSURE (PGHM)
  - VALVE BOX (PGAS)
  - VENT PIPE (PGVP)
  - TEST POINT (PGTP)
- E WATR**
- AIR VALVE (PWAV)
  - EARTH TERMINAL (PWET)
  - FIRE HYDRANT (PWFB)
  - HYDRANT (PWRY)
  - METER (PWMR)
  - STOP VALVE (PWSV)
  - TAP (PWTP)
- E SWER**
- MANHOLE COVER (PSMH)
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  - LAMPHOLE (PSLH)
- E DRAIN (STORMWATER)**
- DRAINAGE JUNCTION MANHOLE (PDJM)
  - GULLY PIT POINT (PGUL)
  - INLET TO SUMP (PILT)
  - INVERT OF PIPE (PINV)
  - TOP OF CONCRETE JUNCTION BOX (PJXB)
  - SUBSOIL DRAIN FLUSH POINT (PSFF)
  - KERB INLET (KI)
- E CULT (CULTURAL)**
- SIGN POST (PSIN)
  - FLAG POLE (PFLG)
  - BUS STOP (PBUS)
  - LARGE SIGN (PSI)
  - HISTORICAL POINT OF INTEREST (PHIS)
  - BOLLARD (AC)
  - FLOOR LEVEL
  - RUBBISH BIN (PSIN)
  - PARKING METER (PKME)
  - MAILBOX (PMBX)
  - GATE
  - DOORWAY
  - UMBRELLA
  - BUILDING
  - FENCE - MANPROOF
  - FENCE - CONSTRUCTED
  - RL OF GUTTER FLOW INVERT
- E MISC**
- GATIC COVER LID (PGAT)
  - UNIDENTIFIED POLE (PPOL)
  - UNIDENTIFIED SERVICE (PUSR)
  - BOREHOLE
- E TOPO**
- SPOT HEIGHT (PSHT)
  - NATURAL SURFACE
  - TREE
  - SPREAD=1
  - TRUNK=0.2
  - HEIGHT=3

PROJECT CONTROL SCHEDULE				
MARK	MGA2020 COORDINATES		AHD71	
	EASTING	NORTHING	RL	
SMW612	315,461.253	6,256,648.692	8.540	
SMW613	315,439.604	6,256,573.011	8.966	
SMW614	315,422.749	6,256,502.470	10.058	
SMW615	315,335.350	6,256,523.952	9.936	
SMW616	315,172.582	6,256,563.283	10.697	
SMW619	315,210.442	6,256,713.793	10.371	
SMW620	315,381.896	6,256,669.747	8.992	
SSM163966	315,154.179	6,256,566.509	10.609	
SSM175465	315,426.941	6,256,497.565	9.998	

REVISIONS	HORIZ. SCALE:			VERT. SCALE:			NOTES
	1:600	@	A1	N/A	@	A1	
C	20.07.2021	SACM 2020 REFERENCED	HY	BG	SFG		
B	28.05.2021	TRANSFORMATION TO MGA2020	SH	BG	SFG		
A	07.05.2020	INITIAL PLAN	NEC	MGL	SFG		
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP		

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NOTES

EXPLANATORY NOTES ON SHEET 1 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

CLIENT:	NSW GOVERNMENT	sydney METRO
SURVEY:	AB	DATE OF SURVEY: 16.03.2020
DRAWN:	NEC	DATE OF PLAN: 07.05.2020
CHECKED:	MGL	DATE LAST SAVED: 01.06.2021
APPROVED:	SFG	DATE APPROVED: 07.05.2020

TITLE	CONTOUR & DETAIL SURVEY Parramatta Station Precinct	JOB No	PR142446	ISSUE	C
DRAWING No	SMWSDS-RPS-HPL-SR-DWG-000037-A.dwg	www.dialbeforeyoudig.com.au	DIAL 1100 BEFORE YOU DIG	SHEET 1 OF 5 SHEETS	A1

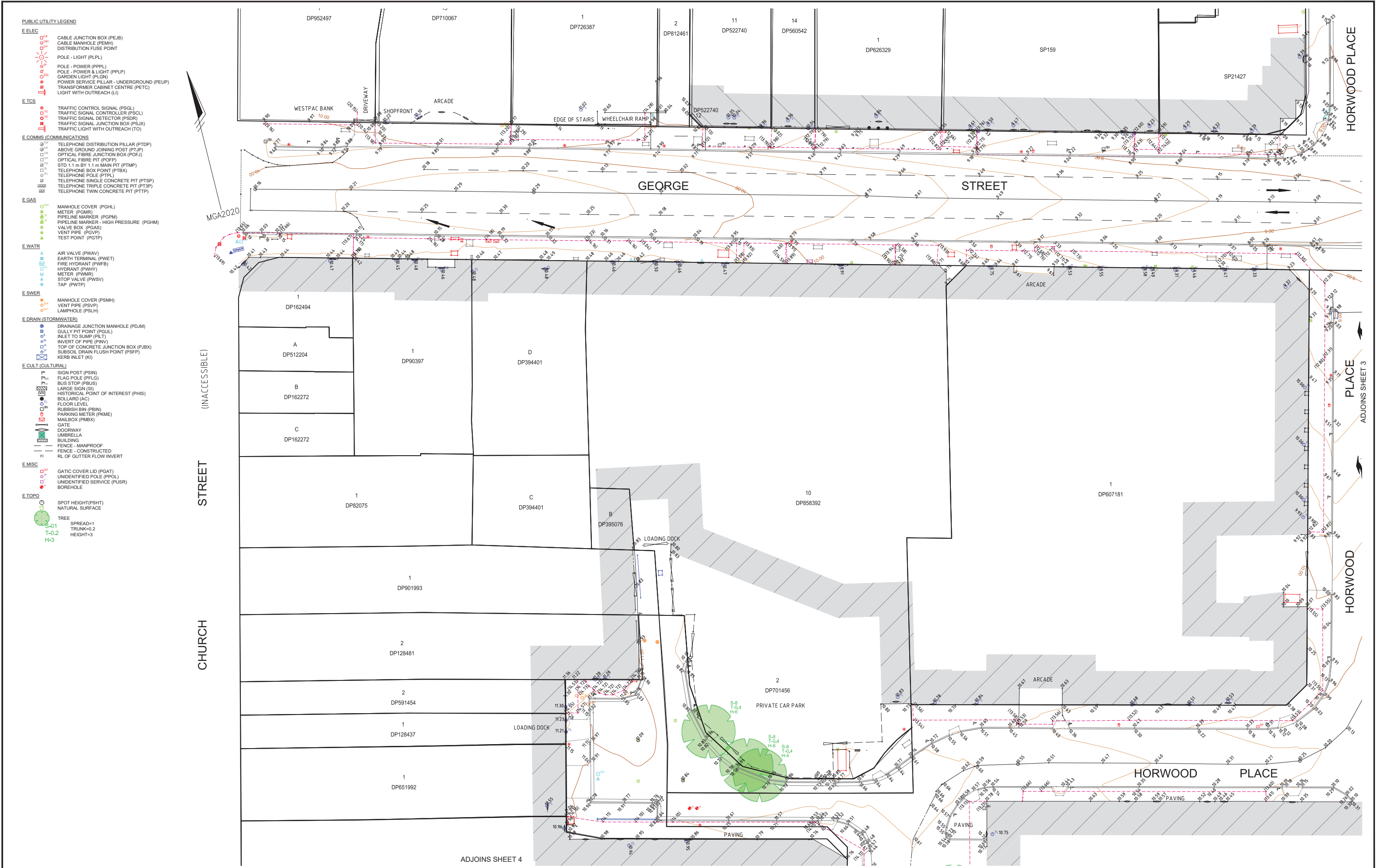
RPS AUSTRALIA EAST PTY LTD (ABN 44 140 292 762)  
LEVEL 13 255 PITT STREET SYDNEY NSW 2000  
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REV	DATE	DESCRIPTION	BY	CHK	APP
C	20.07.2021	SACM 2020 REFERENCED	HY	BG	SFG
B	28.05.2021	TRANSFORMATION TO MGA2020	SH	BG	SFG
A	07.05.2020	INITIAL PLAN	NEC	MGL	SFG
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:250 @ A1

VERT. SCALE: N/A @ A1

COORDINATES: MGA2020

DATUM: AHD

ORIGIN: PROJECT CONTROL

ORIGIN: PROJECT CONTROL

NOTES

EXPLANATORY NOTES ON SHEET 1 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

CLIENT: NSW GOVERNMENT

SYDNEY METRO

SURVEY: AB

DRAWN: NEC

CHECKED: MGL

APPROVED: SFG

DATE OF SURVEY: 10.03.2020

DATE OF PLAN: 07.05.2020

DATE LAST SAVED: 01.06.2021

DATE APPROVED: 07.05.2020

TITLE: CONTOUR & DETAIL SURVEY  
Parramatta Station Precinct

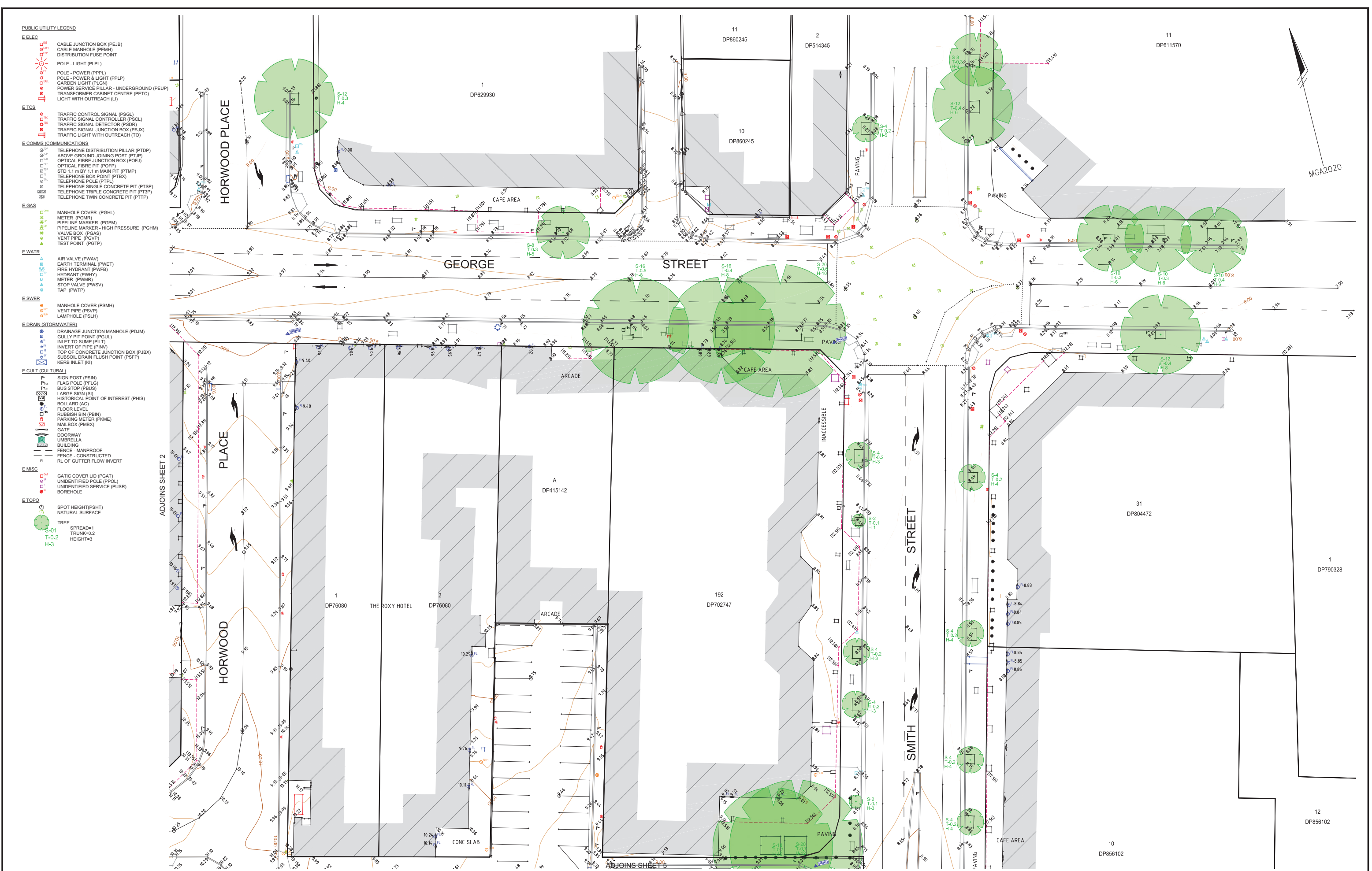
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JOB No: PR142446

ISSUE: C

SHEET 2 OF 5 SHEETS

SIZE: A1



REV	DATE	REVISION	DRAWN	CHK	APP
C	20.07.2021	SACM 2020 REFERENCED	HY	BG	SFG
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HORIZ. SCALE: 1:250 @ A1		VERT. SCALE: N/A @ A1	
COORDINATES: MGA2020		DATUM: AHD	
ORIGIN: PROJECT CONTROL		ORIGIN: PROJECT CONTROL	

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SURVEY: AB

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DRAWING No: SMWSDS-RPS-HPL-SR-DWG-000037-A.dwg

JOB No: PR142446

ISSUE: C

SHEET 3 OF 5 SHEETS

SIZE: A1

REVISIONS

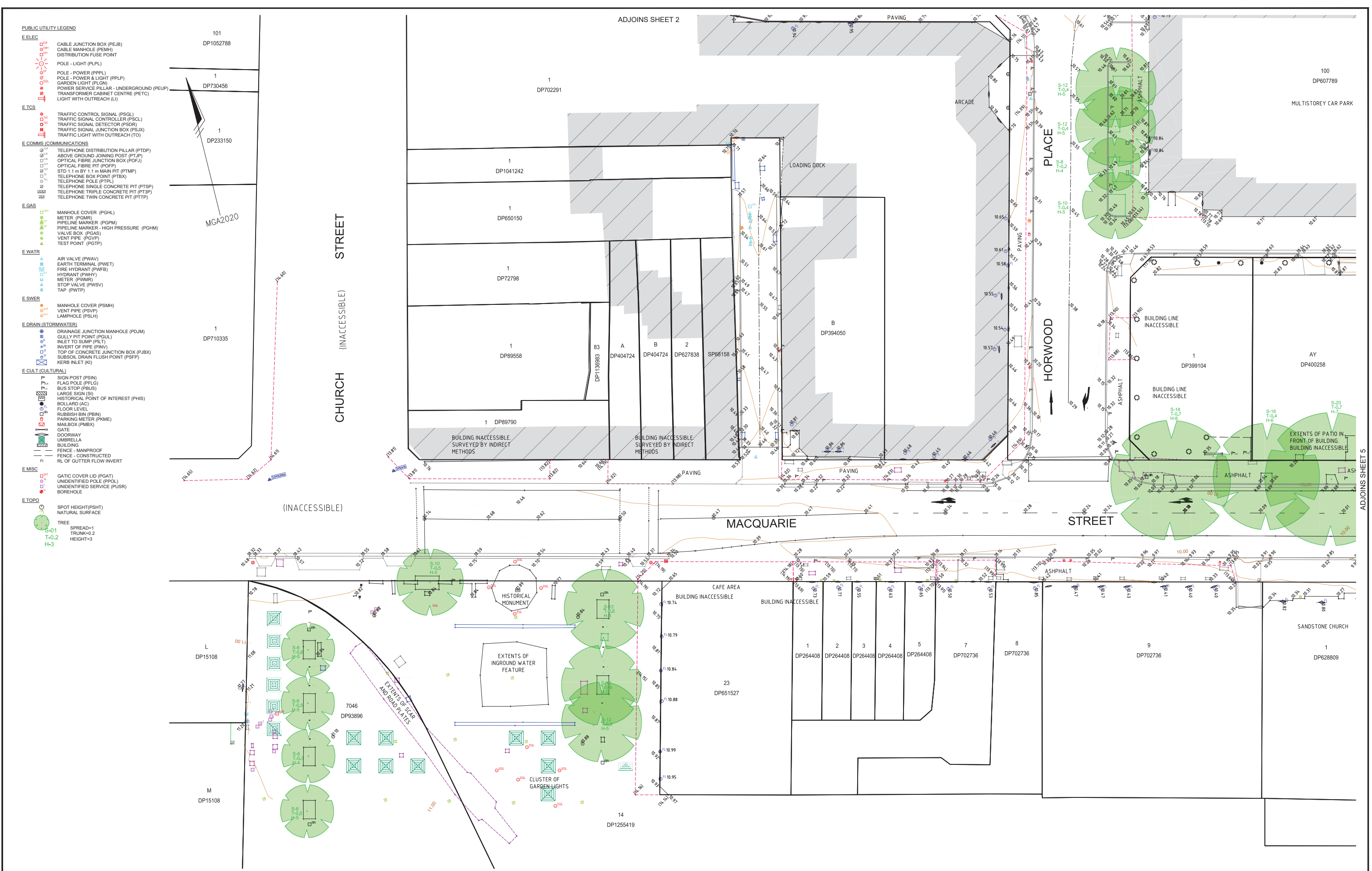
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REVISIONS					
C	20.07.2021	SACM 2020 REFERENCED	HY	BG	SFG
B	28.05.2021	TRANSFORMATION TO MGA2020	SH	BG	SFG
A	07.05.2020	INITIAL PLAN	NEC	MGL	SFG
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:250 @ A1

VERT. SCALE: N/A @ A1

COORDINATES: MGA2020 DATUM: AHD

ORIGIN: PROJECT CONTROL ORIGIN: PROJECT CONTROL

NOTES

EXPLANATORY NOTES ON SHEET 1 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

CLIENT: NSW GOVERNMENT

SURVEY: AB

DRAWN: NEC

CHECKED: MGL

APPROVED: SFG

DATE OF SURVEY: 16.03.2020

DATE OF PLAN: 07.05.2020

DATE LAST SAVED: 01.06.2021

DATE APPROVED: 07.05.2020

TITLE

CONTOUR & DETAIL SURVEY

Parramatta Station Precinct

JOB No: PR142446

ISSUE: C

SHEET 4 OF 5 SHEETS

SIZE: A1

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## PUBLIC UTILITY LEGEND

## E ELEC

CABLE JUNCTION BOX (PEJB)  
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DISTRIBUTION FUSE POINT  
POLE - LIGHT (PLPL)  
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## E TCS

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## E COMMS (COMMUNICATIONS)

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AIR VALVE (PWAV)  
EARTH TERMINAL (PWET)  
FIRE HYDRANT (PWFH)  
HYDRANT (PWHY)  
METER (PWMR)  
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TAP (PWTP)

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INVERT OF PIPE (PINV)  
TOP OF CONCRETE JUNCTION BOX (PUBX)  
SUBSOIL DRAIN FLUSH POINT (PSFP)  
KERB INLET (KI)

## E CULT (CULTURAL)

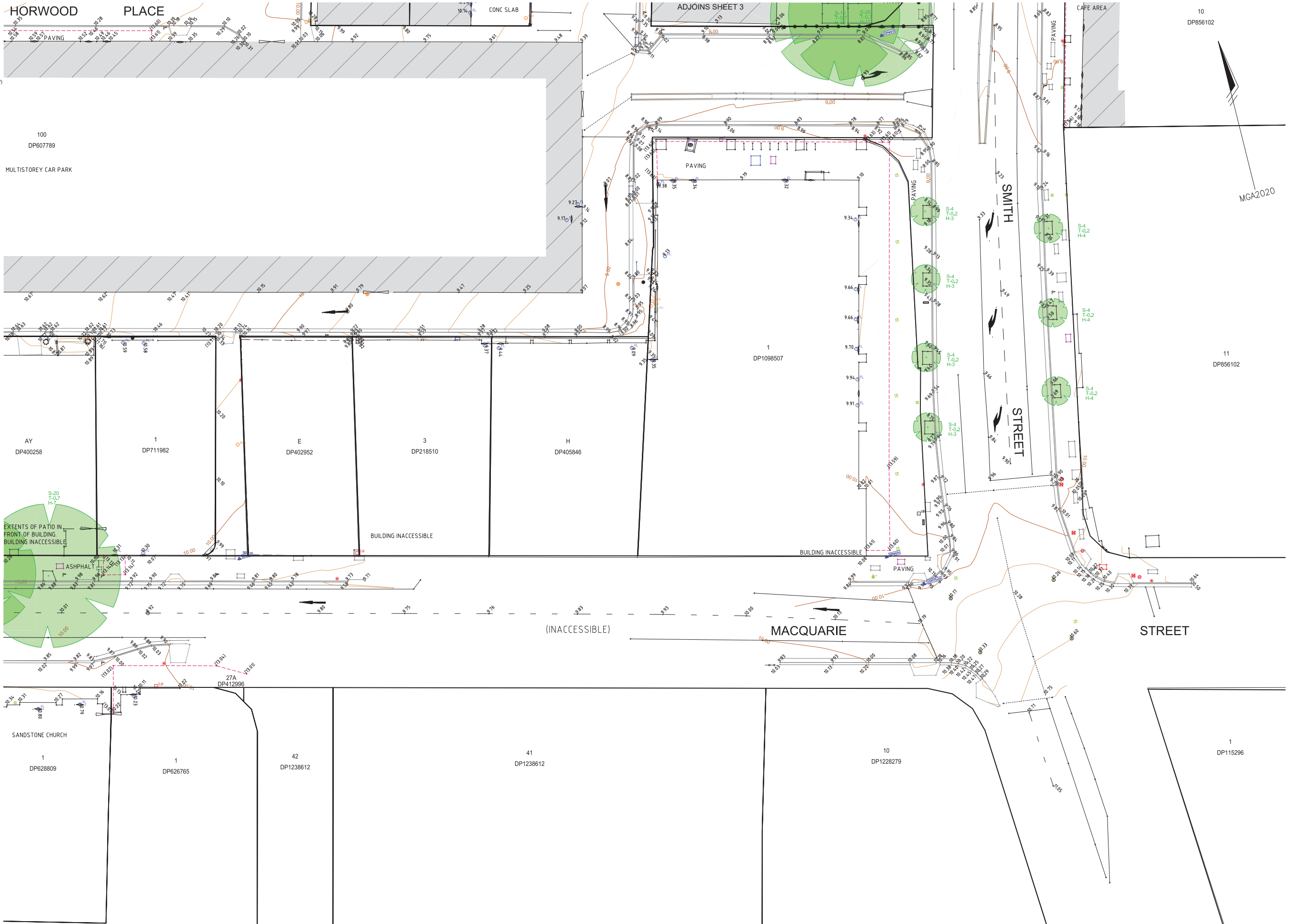
SIGN POST (PSIN)  
FLAG POLE (PFLG)  
BUS STOP (PBUS)  
LARGE SIGN (SL)  
HISTORICAL POINT OF INTEREST (PHIS)  
BOLLARD (AC)  
FLOOR LEVEL  
RUBBISH BIN (PBIN)  
PARKING METER (PKME)  
MAILBOX (PMBX)  
GATE  
DOORWAY  
UMBRELLA  
BUILDING  
FENCE - MANPROOF  
FENCE - CONSTRUCTED  
RL OF GUTTER FLOW INVERT

## E MISC

GATIC COVER LID (PGAT)  
UNIDENTIFIED POLE (PPOL)  
UNIDENTIFIED SERVICE (PUSR)  
BOREHOLE

## E TOPO

SPOT HEIGHT (PSHT)  
NATURAL SURFACE  
TREE  
SPREAD=1  
TRUNK=0.2  
HEIGHT=3



## REVISIONS

C 20.07.2021  
B 28.05.2021  
A 07.05.2020

No. DATE

REVISION DETAILS

DRAWN CHK APP

HY BG SFG  
SH BG SFG  
NEC MGL SFG

## HORIZ. SCALE:

1:250 @ A1

## VERT. SCALE:

N/A @ A1

## COORDINATES:

MGA2020

## DATUM:

AHD

## ORIGIN:

PROJECT CONTROL

## ORIGIN:

PROJECT CONTROL

## NOTES

EXPLANATORY NOTES ON SHEET 1 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

CLIENT: NSW GOVERNMENT

SURVEY: AB

DRAWN: NEC

CHECKED: MGL

APPROVED: SFG

DATE OF SURVEY: 16.03.2020

DATE OF PLAN: 07.05.2020

DATE LAST SAVED: 01.06.2021

DATE APPROVED: 07.05.2020

TITLE

CONTOUR & DETAIL SURVEY  
Parramatta Station Precinct

DRAWING No. SMWSDS-RPS-HPL-SR-DWG-000037-A.dwg

JOB No. PR142446

ISSUE C

SHEET 5 OF 5 SHEETS

SIZE A1

MAKING COMPLEX EASY

RPS

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