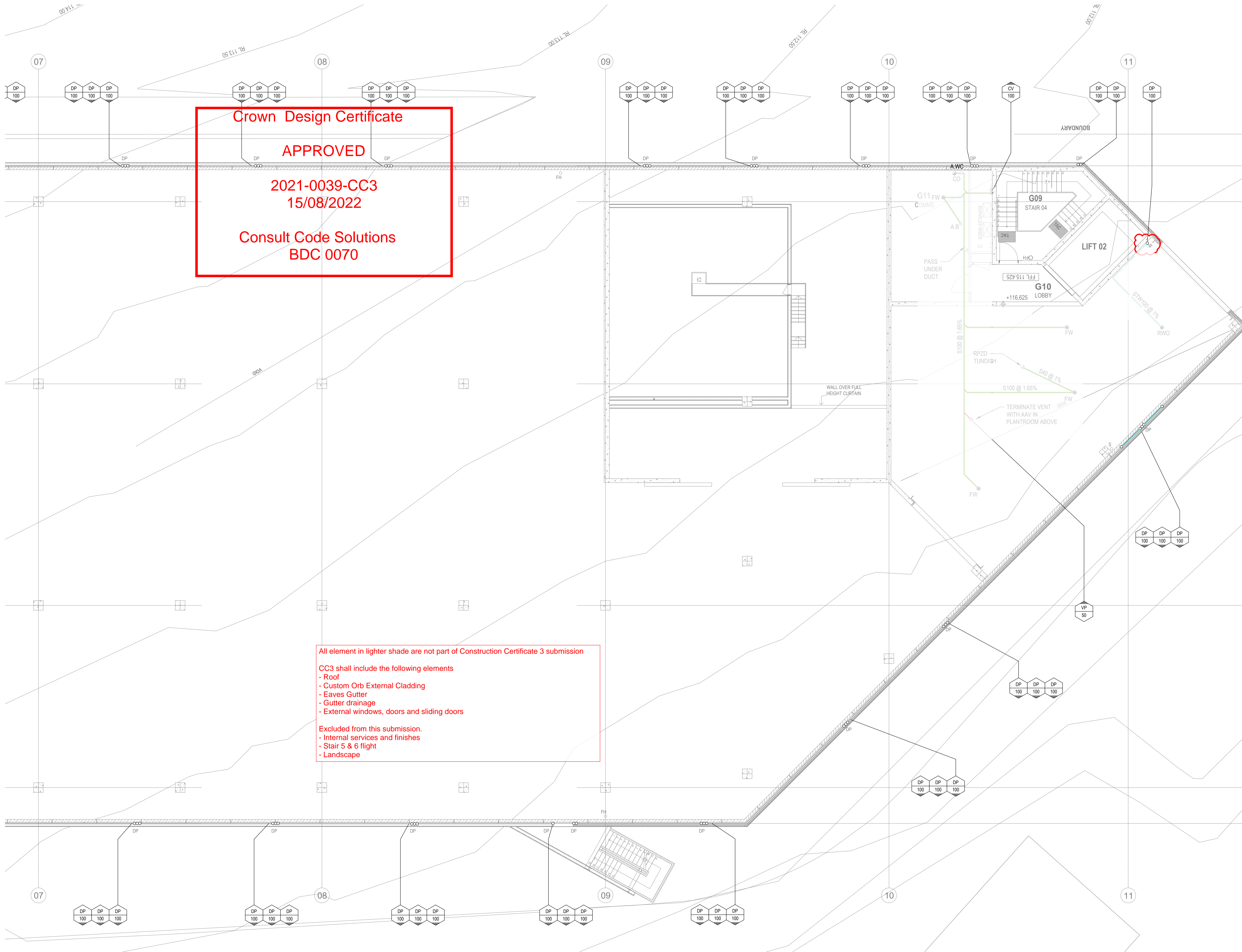


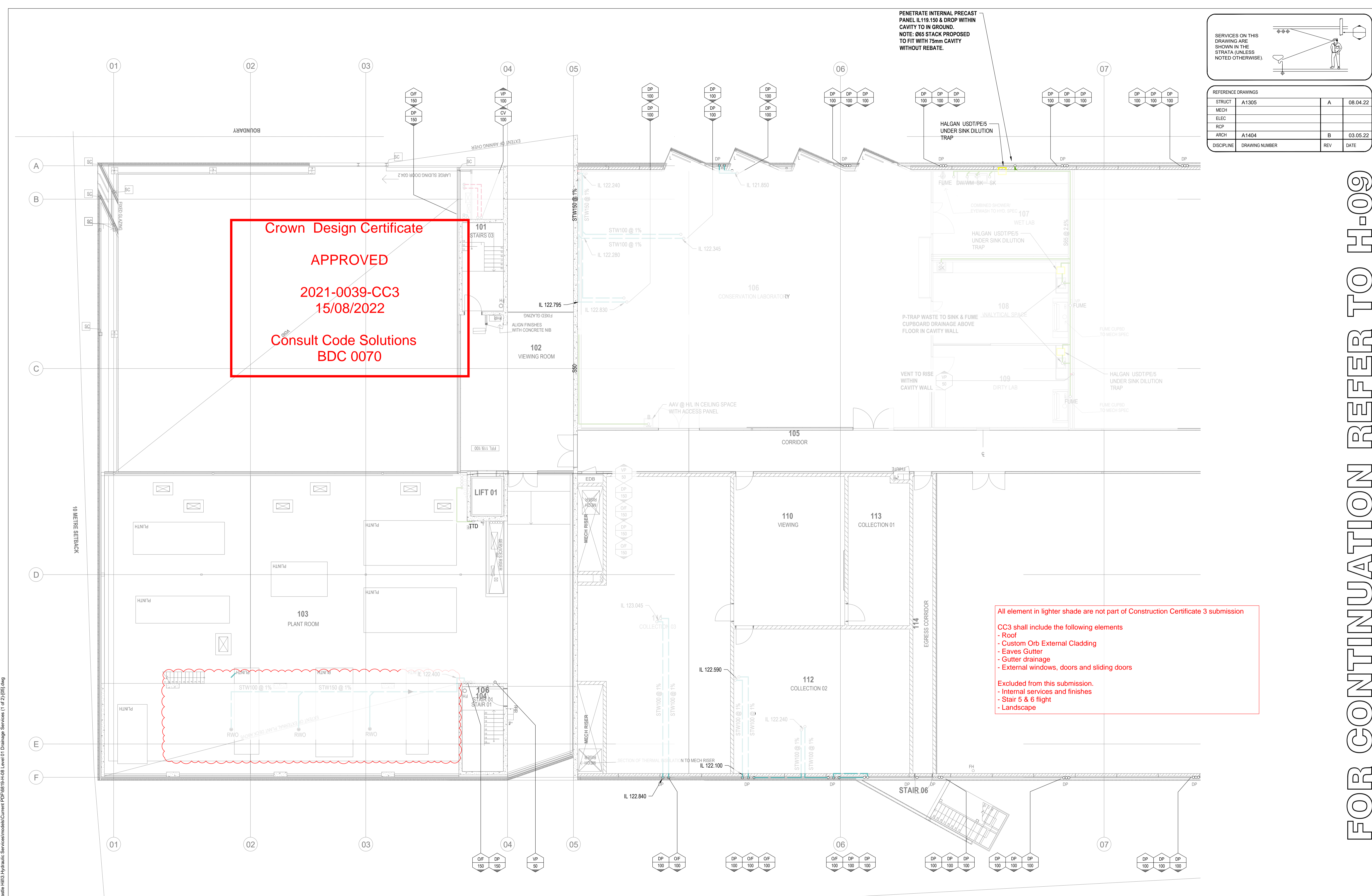
FOR CONTINUATION REFER TO H-06



SERVICES ON THIS DRAWING ARE SHOWN IN THE STRATA (UNLESS NOTED OTHERWISE).

STRUCT	A1302	A	08.04.22
MECH			
ELEC			
RCP			
ARCH	A1402	A	08.04.22
DISCIPLINE	DRAWING NUMBER	REV	DATE

\\pisa01\cadd\0819 - Powerhouse_Castle Hill\3_Hydraulic Services\models\Current PDF\0819-H-09 Level 01 Drainage Services (1 of 2).dwg



SERVICES ON THIS DRAWING ARE SHOWN IN THE STRATA (UNLESS NOTED OTHERWISE).

REFERENCE DRAWINGS			
STRUCT	A1305	A	08.04.22
MECH			
ELEC			
RCP			
ARCH	A1404	B	03.05.22
DISCIPLINE	DRAWING NUMBER	REV	DATE

COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

05	CONSTRUCTION ISSUE	26.07.22
04	CONSTRUCTION ISSUE	20.07.22
03	CONSTRUCTION ISSUE	03.05.22
02	FOR CONSTRUCTION	13.04.22
01	FOR CONSTRUCTION	04.03.22
ISSUE	AMENDMENT	DATE

PLUMBING CONTRACTOR

HYDRABUILD
34 Windsor Street,
Marrickville NSW 2156
T +61 2 9311 0330
info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

Museum of Applied Arts & Sciences

ARCHITECT / PROJECT MANAGER

lahznimmo architects
Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates PTY LIMITED
HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone (02) 9262 1600 Fax (02) 9262 6385
Email: info@harrispage.com.au ABN 008 548 008

PROJECT

**BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill**

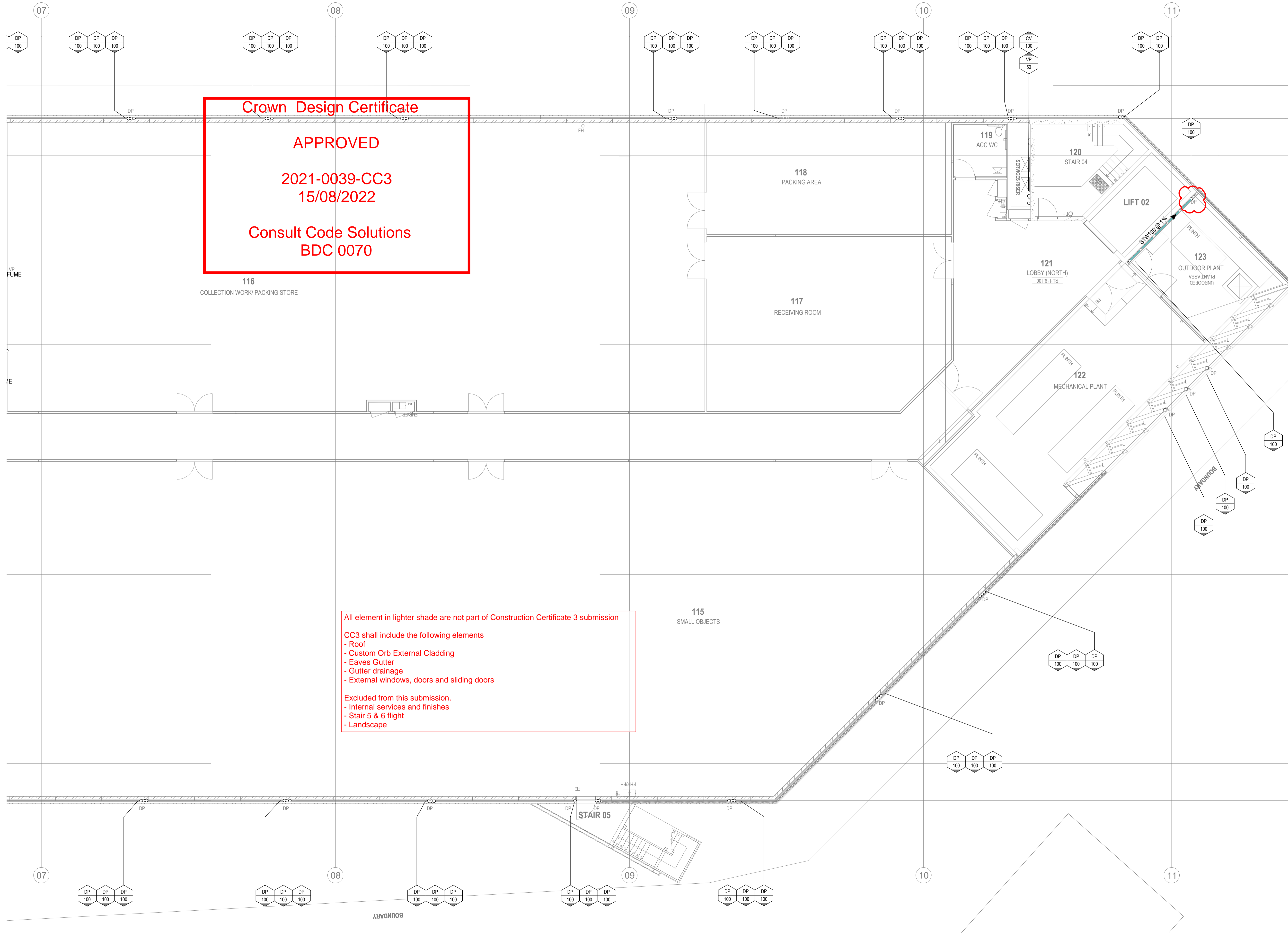
DRAWING TITLE

**HYDRAULIC SERVICES
Level 01
Drainage Services (1 of 2)**

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	9 of 21	1:100@ A1
PROJECT No.		DRAWING No.		REVISION
6819		H-08		05

FOR CONTINUATION REFER TO H-09

FOR CONTINUATION REFER TO H-08



SERVICES ON THIS DRAWING ARE SHOWN IN THE STRATA (UNLESS NOTED OTHERWISE).

REFERENCE DRAWINGS			
STRUCT	A1305	A	08.04.22
MECH			
ELEC			
RCP			
ARCH	A1404	A	08.04.22
DISCIPLINE	DRAWING NUMBER	REV	DATE

COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

02	FOR CONSTRUCTION	13.04.22
01	FOR CONSTRUCTION	04.03.22
P4	DESIGN DEVELOPMENT	10.02.22
P3	FOR APPROVAL	29.11.21
P2	CONSTRUCTION CERTIFICATE 2 ISSUE	12.11.21
ISSUE	AMENDMENT	DATE

PLUMBING CONTRACTOR

HYDRA BUILD
34 Windsor Street,
Marrville, NSW, 2136
T +61 2 9311 0330
info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

Museum of Applied Arts & Sciences

ARCHITECT / PROJECT MANAGER

lahznimmo architects
Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates PTY LIMITED
HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone: (02) 9262 1600 Fax: (02) 9262 6385
Email: info@harrispage.com.au ABN 008 548 098

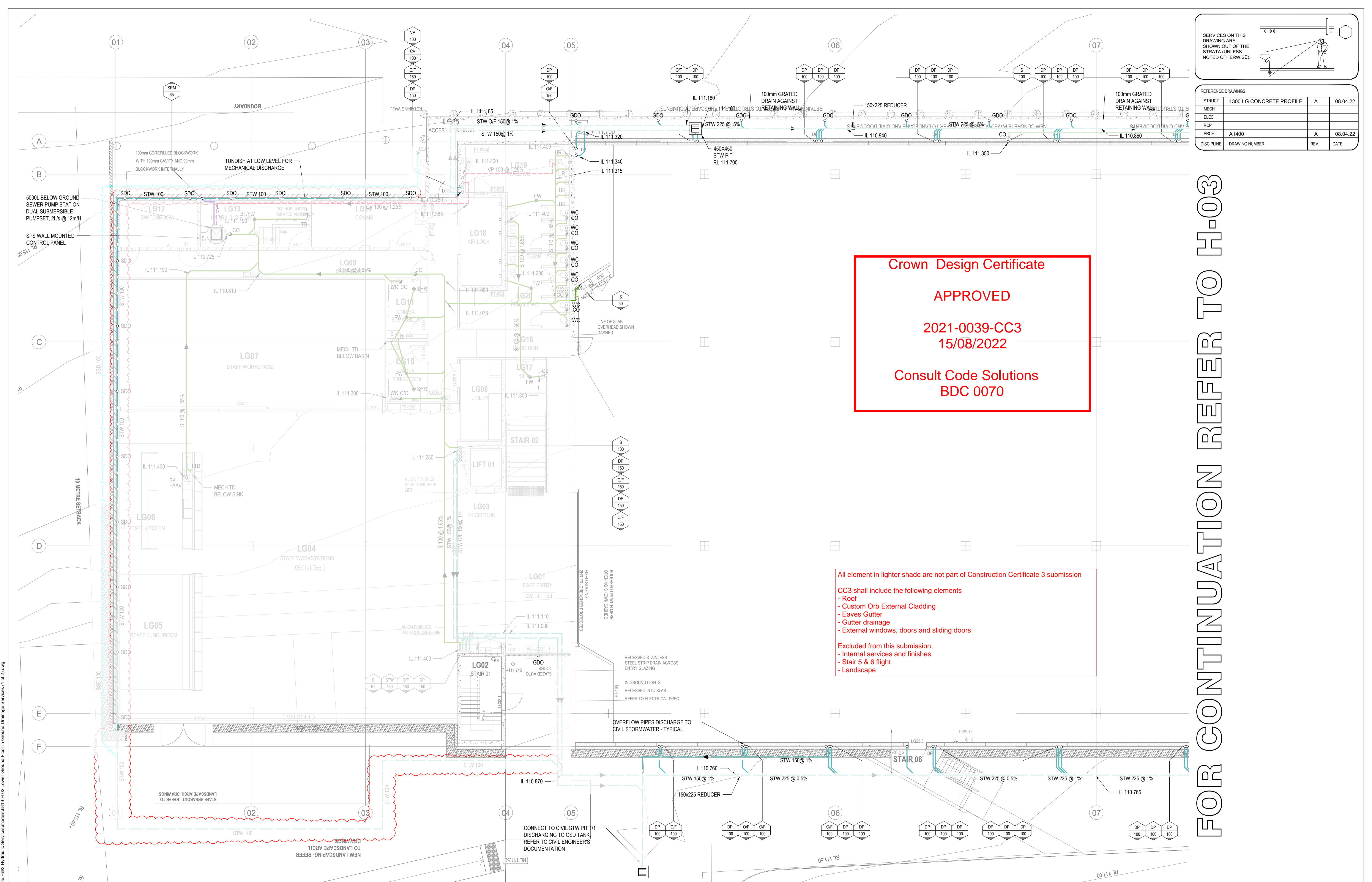
PROJECT

**BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill**

DRAWING TITLE

**HYDRAULIC SERVICES
Level 01
Drainage Services (2 of 2)**

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	1 of 21	1:100@ A1
PROJECT No. 6819		DRAWING No. H-09		REVISION 02



SERVICES ON THIS DRAWING ARE SHOWN OUT OF THE STRATA (UNLESS NOTED OTHERWISE).

REFERENCE DRAWINGS			
STRUCT	1300 LG CONCRETE PROFILE	A	08.04.22
MECH			
ELEC			
RCP			
ARCH	A1400	A	08.04.22
DISCIPLINE	DRAWING NUMBER	REV	DATE

Crown Design Certificate

APPROVED

2021-0039-CC3

15/08/2022

Consult Code Solutions

BDC 0070

All element in lighter shade are not part of Construction Certificate 3 submission

CC3 shall include the following elements

- Roof
- Custom Orb External Cladding
- Eaves Gutter
- Gutter drainage
- External windows, doors and sliding doors

Excluded from this submission.

- Internal services and finishes
- Stair 5 & 6 flight
- Landscape

FOR CONTINUATION REFER TO H-03

COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

06	FOR CONSTRUCTION	20.07.22
05	FOR CONSTRUCTION	13.04.22
04	FOR CONSTRUCTION	04.03.22
03	DESIGN DEVELOPMENT	10.02.22
02	FOR CONSTRUCTION	21.01.22
ISSUE	AMENDMENT	DATE

PLUMBING CONTRACTOR

HYDRA BUILD

HYDRABUILD
34 Windsor Street,
Marrville NSW 2036
T +61 2 9311 0330
info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

Museum of Applied Arts & Sciences

ARCHITECT / PROJECT MANAGER

lahznimmo architects

Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates
PTY LIMITED

HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone (02) 5262 1600 Fax (02) 9262 6385
Email: info@harrispage.com.au ABN 008 548 008

PROJECT

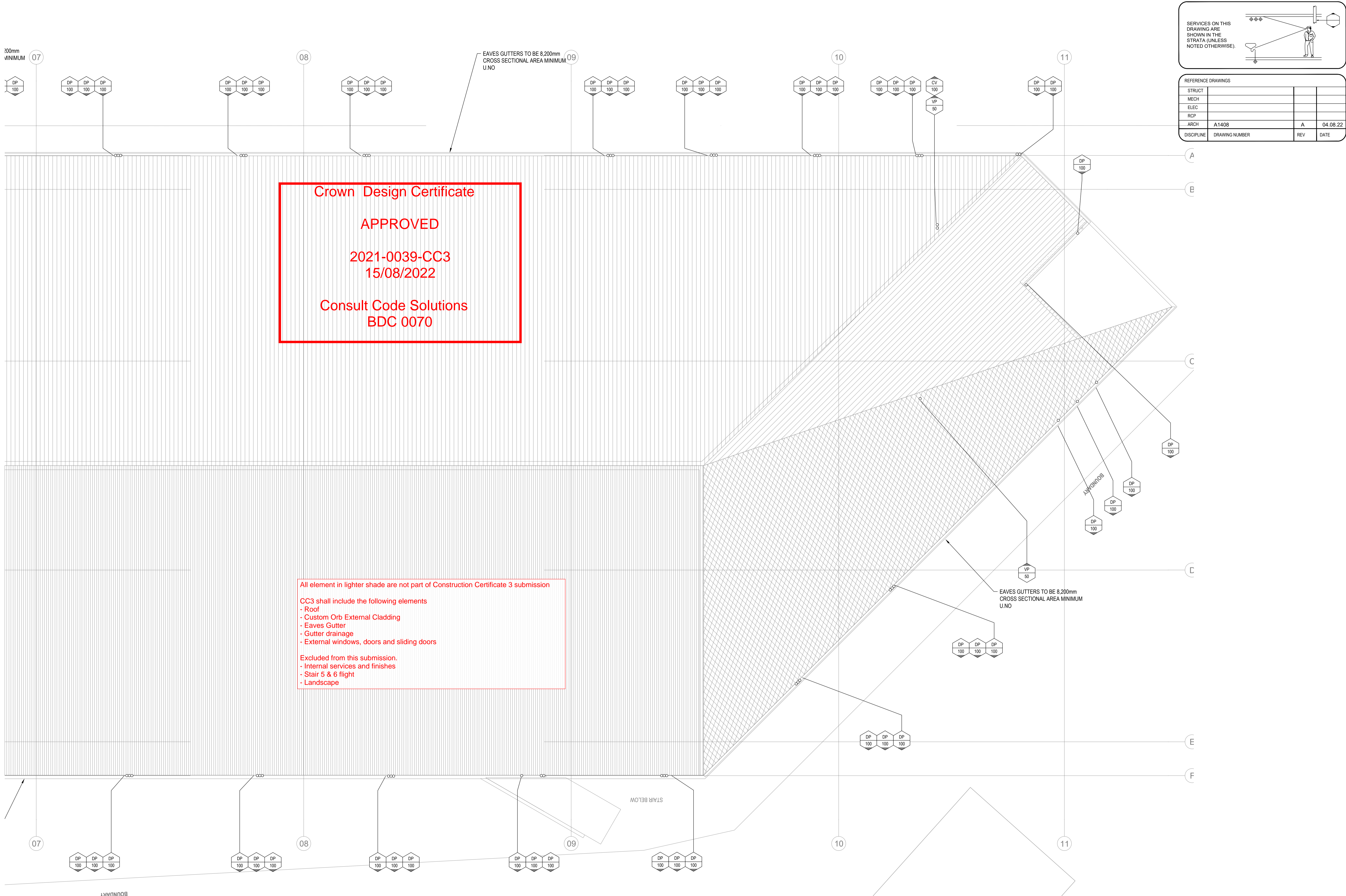
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

DRAWING TITLE

HYDRAULIC SERVICES
Lower Ground Floor in Ground
Drainage Services (1 of 2)

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	3 of 21	1:100@ A1
PROJECT No.	DRAWING No.	REVISION		
6819	H-02	06		

FOR CONTINUATION REFER TO H-11



SERVICES ON THIS DRAWING ARE SHOWN IN THE STRATA (UNLESS NOTED OTHERWISE).

REFERENCE DRAWINGS

STRUCT			
MECH			
ELEC			
RCP			
ARCH	A1408	A	04.08.22
DISCIPLINE	DRAWING NUMBER	REV	DATE

COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

ISSUE	AMENDMENT	DATE
02	FOR CONSTRUCTION	13.04.22
01	FOR CONSTRUCTION	04.03.22
P4	DESIGN DEVELOPMENT	10.02.22
P3	FOR APPROVAL	29.11.21
P2	CONSTRUCTION CERTIFICATE 2 ISSUE	12.11.21

PLUMBING CONTRACTOR

HYDRABUILD
34 Windsor Street,
Marrville, NSW, 2136
T +61 2 9311 0390
info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

ARCHITECT / PROJECT MANAGER

Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS

HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone (02) 9262 1600 Fax (02) 9262 6365
Email: info@harrispge.com.au ABN 008 548 098

PROJECT

BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

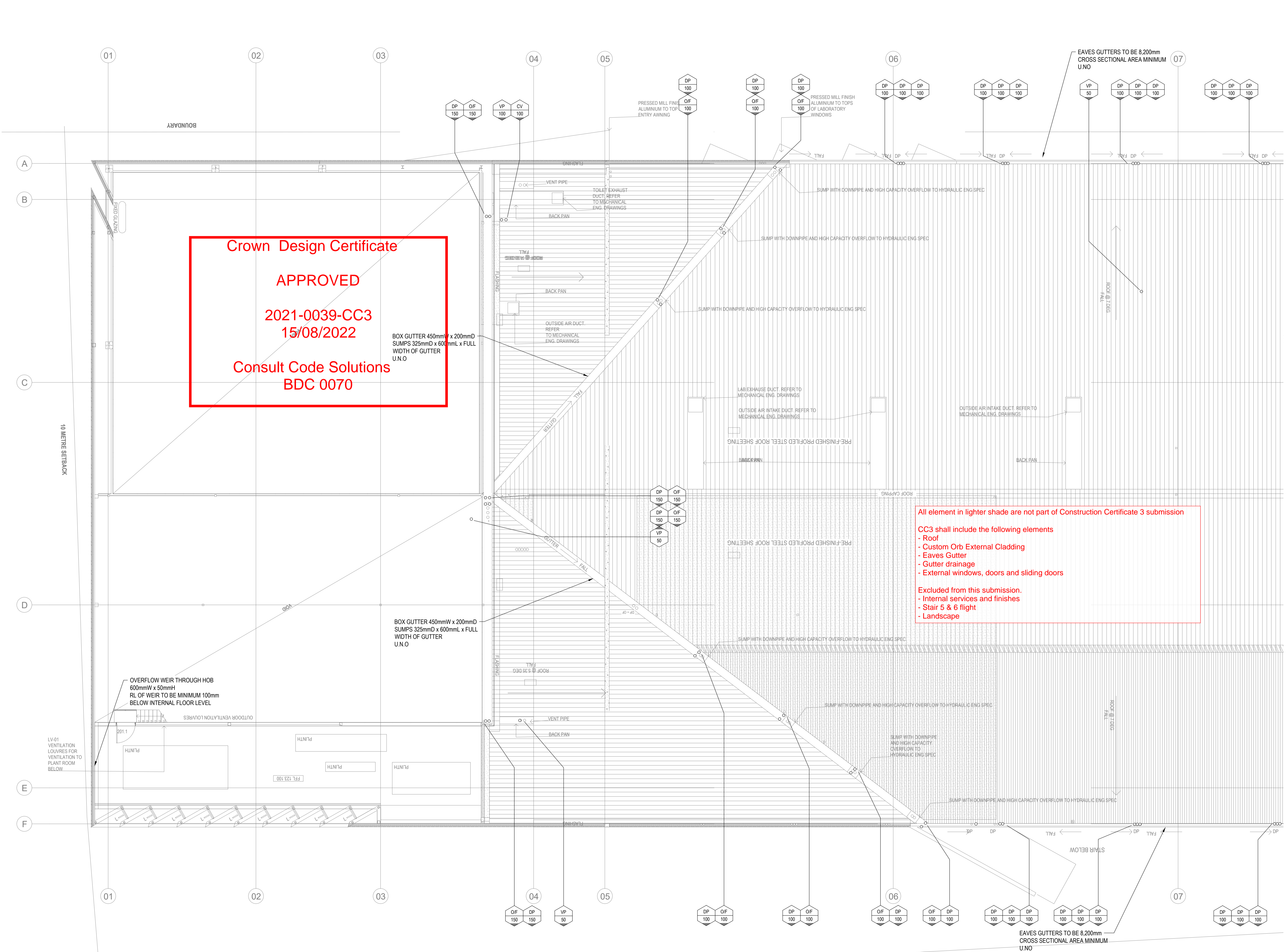
DRAWING TITLE

HYDRAULIC SERVICES
Roof Drainage Services
(2 of 2)

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	13 of 21	1:100 @ A1
PROJECT No. 6819		DRAWING No. H-12		REVISION 02

SERVICES ON THIS DRAWING ARE SHOWN IN THE STRATA (UNLESS NOTED OTHERWISE).

REFERENCE DRAWINGS			
STRUCT	A1306	A	08.04.22
MECH			
ELEC			
RCP			
ARCH	A1406	A	08.04.22
DISCIPLINE	DRAWING NUMBER	REV	DATE



COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

ISSUE	AMENDMENT	DATE
02	FOR CONSTRUCTION	13.04.22
01	FOR CONSTRUCTION	04.03.22
P4	DESIGN DEVELOPMENT	10.02.22
P3	FOR APPROVAL	29.11.21
P2	CONSTRUCTION CERTIFICATE 2 ISSUE	12.11.21

PLUMBING CONTRACTOR

HYDRA BUILD

HYDRABUILD
34 Windsor Street,
Marrickville, NSW, 2156
T +61 2 9311 0390
info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

Museum of Applied Arts & Sciences

ARCHITECT / PROJECT MANAGER

lahznimmo architects

Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates PTY LIMITED
HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone (02) 5262 1600 Fax (02) 5262 6365
Email: info@harrispage.com.au ABN 108 548 098

PROJECT

**BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill**

DRAWING TITLE

**HYDRAULIC SERVICES
Level 02
Drainage Services**

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	11 of 21	1:100 @ A1

PROJECT No.	DRAWING No.	REVISION
6819	H-10	02

All element in lighter shade are not part of Construction Certificate 3 submission

CC3 shall include the following elements

- Roof
- Custom Orb External Cladding
- Eaves Gutter
- Gutter drainage
- External windows, doors and sliding doors

Excluded from this submission.

- Internal services and finishes
- Stair 5 & 6 flight
- Landscape

Crown Design Certificate

APPROVED

2021-0039-CC3
15/08/2022

Consult Code Solutions
BDC 0070

HARRIS PAGE & ASSOCIATES

BUILDING J MUSEUMS DISCOVERY CENTRE

172 SHOWGROUND ROAD, CASTLE HILL NSW

HYDRAULIC SERVICES LEGEND

PIPEWORK

	STORMWATER
	STORMWATER RISING MAIN
	SEWER RISING MAIN
	SEWER
	NEW VENT
	HIGH CARE TRADE WASTE
	LOW RISK TRADE WASTE
	TRADE WASTE RISING MAIN
	NON POTABLE COLD WATER
	PROCESS COLD WATER
	COLD WATER
	HOT WATER
	GAS
	HOT WATER RETURN
	SUB-SOIL
	FIRE HYDRANT
	FIRE HOSE REEL
	SPRINKLER LINE
	FIRE LINE
	EXISTING COLD WATER
	EXISTING HOT WATER
	EXISTING HOT WATER RETURN
	EXISTING STORM WATER
	EXISTING SUBSOIL
	EXISTING SEWER
	EXISTING VENT
	EXISTING TRADE WASTE
	EXISTING GAS
	EXISTING FIRE HYDRANT
	EXISTING FIRE HOSE HYDRANT
	EXISTING SPRINKLER
	EXISTING ASSUMED
	EXISTING TELSTRA
	EXISTING DELETE

SYMBOLS

	DIRECTION OF FLOW
	SERVICE SIZE
	CONTINUED ON DWG
	DROPPER
	RISER
	TEE
	CAPPED OFF SERVICE
	DIRECTION OF FLOW IN PIPE
	REDUCER
	ISOLATION VALVE
	BALANCING VALVE
	BALL VALVE
	FLOAT VALVE
	CHECK VALVE (WATER SERVICE)
	REFLUX VALVE (DRAINAGE)
	SV IN PATH BOX
	SOLENOID VALVE
	RPZD
	STRAINER
	TUNDISH
	FLOOR WASTE
	BUCKET TRAP FLOOR WASTE
	OVERFLOW RELIEF GULLY
	BOUNDARY TRAP
	AIR ADMITTANCE VALVE
	CLEAR OUT
	IPMF
	PUMP
	METER
	TMV / TEMPERING VALVE
	PRESSURE GAUGE
	FILTER
	PRESSURE REDUCING VALVE
	PRESSURE LIMITING VALVE
	HOT WATER UNIT
	HOSE TAP
	GAS REGULATOR
	GAS METER
	ELECTRICAL CONTROL PANEL
	OVERLAND FLOW PATH
	PENETRATION
	DOWNPIPE
	RAINWATER OUTLET
	STORMWATER PIT (WITH COVER)
	STORMWATER PIT (WITH GRATE)
	SQUARE RAINWATER OUTLET

ABBREVIATIONS

A/C	AIR CONDITIONING
AAV	AIR ADMITTANCE VALVE
AHD	AUSTRALIAN HEIGHT DATUM
AS	AUSTRALIAN STANDARDS
B	BASIN
BBQ	BARBEQUE
BCA	BUILDING CODE OF AUSTRALIA
BCWU	BOILING CHILLED WATER UNIT
BDO	BALCONY DRAIN OUTLET
BP	BAYONET POINT
BT	BOUNDARY TRAP
BTWF	BUCKET TRAP FLOORWASTE
BTH	BATH
BV	BALL VALVE / BALANCING VALVE
BWU	BOILING WATER UNIT
CD	CONDENSATE DRAIN
CI	CAST IRON
CIC	CAST IN COLUMN
CICL	CAST IRON CEMENT LINED
CIS	CAST IN SLAB
CL	CEILING LEVEL
CO	CLEAR OUT
CP	CHROME PLATED
CS	CLEANERS SINK
CST	CONDENSATE STACK
CT	COOK TOP
CU	COPPER
CV	CONTROL VALVE
CW	COLD WATER
DIS	DISABLED
DCV	DOUBLE CHECK VALVE
DE	DIESEL EXHAUST
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DICL	DUCTILE IRON CEMENT LINED
DP	DOWNPIPE
DTU	DRAINAGE TURN UP
DW	DISHWASHER
DWG	DRAWING
EX	EXISTING
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EW	EYE WASH
EXT	EXTINGUISHER
FC	FUME CUPBOARD
FCR	FOR CONTINUATION REFER
FFL	FINISHED FLOOR LEVEL
FH	FIRE HYDRANT
FHBV	FIRE HYDRANT BOOSTER VALVE
FHR	FIRE HOSE REEL
FH	FIRE HYDRANT VALVE
FIP	FIRE INDICATOR PANEL
FIT	FIRE INDICATOR & TOTALISER
FSL	FINISHED SURFACE LEVEL
FU	FIXTURE UNITS
FV	FLUSH VALVE
FW	FLOORWASTE
GA	GREASE ARRESTOR
GAL	GALVANISED
GAS	GAS SERVICE
GD	GRATED DRAIN
GL	GROUND LEVEL
GM	GAS METER
GMS	GALVANISED MILD STEEL
GR	GAS REGULATOR
GST	GREASE STACK

ABBREVIATIONS cont.

GTU	GREASE TURN UP
GTVP	GREASE TRAP VENT PIPE
GV	GATE VALVE
GVP	GREASE VENT PIPE
H/L	HIGH LEVEL
HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HR	HOSE REEL
HT	HOSE TAP
HW	HOT WATER
HWF	HOT WATER FLOW
HWM	HOT WATER METER
HWR	HOT WATER RETURN
HWU	HOT WATER UNIT
ID	INSIDE DIAMETER
IL	INVERT LEVEL
IM	ICE MACHINE
IO	INSPECTION OPENING
IPMF	INDUCT PIPE MICA FLAP
IR	IRRIGATION
IV	ISOLATION VALVE
KIP	KERB INLET PIT
KPA	KILOPASCAL
KW	KILOWATT
L	LITRES
L/L	LOW LEVEL
L/S	LITRES PER SECOND
LD	LIGHT DUTY
LPG	LIQUIFIED PETROLEUM GAS
LT	LAUNDRY TUB
LU	LOADING UNITS
M	METRE
M.HEAD	METRES HEAD
M/S	METRES PER SECOND
M3HR	CUBIC METRES PER HOUR
MDPE	MEDIUM DENSITY POLYETHYLENE
MIN	MINIMUM
MJ	MEGAJOULES
MM	MILLIMETRES
MS	MILD STEEL
NG	NATURAL GAS
NPCW	NON-POTABLE COLD WATER
NPHW	NON-POTABLE HOT WATER
NPHWF	NON-POTABLE HOT WATER FLOW
NPHWR	NON-POTABLE HOT WATER RETURN
NRV	NON-RETURN VALVE
NTS	NOT TO SCALE
NY	NYLON
O/F	OVERFLOW
OD	OUTSIDE DIAMETER
ORG	OVERFLOW RELIEF GULLY
P/O	PUMP OUT
PDO	PLANTER DRAIN OUTLET
PG	PRESSURE GAUGE
PLV	PRESSURE LIMITING VALVE
PRV	PRESSURE RELIEF VALVE
PS	PAN SANITISER
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
RCP	REINFORCED CONCRETE PIPE
RHS	RECTANGULAR HOLLOW SECTION
RL	REDUCED LEVEL
RO	REVERSE OSMOSIS
RPZD	REDUCED PRESSURE ZONE DEVICE
RV	REFLUX VALVE
RW	RAINWATER

ABBREVIATIONS cont.

RWH	RAIN WATER HEAD
RWO	RAINWATER OUTLET
TWST	TRADE WASTE STACK
TWVP	TRADE WASTE VENT PIPE
TYP	TYPICAL
U/S	UNDERSIDE
UNO	UNLESS NOTED OTHERWISE
UPVC	UNPLASTICISED POLYVINYL CHLORIDE
UR	URINAL
UV	ULTRA VIOLET
VAC	VACUUM LINE
VB	VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VP	VENT PIPE
WC	WATER CLOSET
WL	WATER LEVEL
WM	WASHING MACHINE (CLOTHES)
WST	WASTE STACK
WT	WASH TROUGH
WW	WARM WATER
WWF	WARM WATER FLOW
WWR	WARM WATER RETURN
X	REDUNDANT / REMOVE
S/S	STAINLESS STEEL
SDO	SPOON DRAIN OUTLET
SH	SLOP HOPPER
SHR	SHOWER
SIP	SEWER INSPECTION PIT
SK	SINK
SL	SURFACE LEVEL
SMH	SEWER MANHOLE
SO	SYPHONIC OUTLET
SOF	SYPHONIC OVERFLOW
SPD	SPREADER
SPR	SPRINKLER
SQ	SQUARE
SRM	SEWER RISING MAIN
SSD	SUBSOIL DRAINAGE
SSHR	SAFETY SHOWER
SSL	STRUCTURAL SLAB LEVEL
SSRM	SUBSOIL RISING MAIN
SST	SOIL STACK
SSVP	SOIL STACK VENT PIPE
ST	STACK
STD	SPRINKLER TEST DRAIN
SV	STOP VALVE
SW	STORMWATER
SWD	STORMWATER DRAINAGE
SWIP	STORMWATER INSPECTION PIT
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SYP	SYPHONIC
TB	THRUST BLOCK
TBR	TO BE REMOVED
TD	TUNDISH
TEL	TELECOMMUNICATION SERVICE
TG	TRENCH GRATE
TIT	TEMPERATURE INDICATOR & TRANSMITTER
TMV	THERMOSTATIC MIXING VALVE
TPRV	TEMPERATURE & PRESSURE RELIEF VALVE
TTD	TRAPPED TUNDISH
TWD	TRADE WASTE DRAINAGE
TWIP	TRADE WASTE INSPECTION PIT
TWRM	TRADE WASTE RISING MAIN

NOTE:
THIS IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT
NECESSARILY BE USED IN THESE DRAWINGS.

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY AND HAVE BEEN PREPARED FOR THE PURPOSE OF INDICATING THE DESIGN INTENT AND SCOPE OF WORKS OF THE HYDRAULIC SERVICES.
- IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR PLUMBING SUBCONTRACTOR TO INVESTIGATE AND COORDINATE BEFORE AND DURING THE CONSTRUCTION PHASE ALL EXISTING SERVICES WHICH



SITE LOCATION

Not to Scale

DRAWING SCHEDULE

DWG No.	Scale	Drawing Title
H-00	NTS	HYDRAULIC SERVICES COVER SHEET, LEGEND & DRAWING SCHEDULE
H-01	1:750	HYDRAULIC SERVICES SITE PLAN
H-02	1:100	HYDRAULIC SERVICES LOWER GROUND FLOOR IN GROUND DRAINAGE SERVICES 1
H-03	1:100	HYDRAULIC SERVICES LOWER GROUND FLOOR IN GROUND DRAINAGE SERVICES 2
H-04	1:100	HYDRAULIC SERVICES LOWER GROUND FLOOR DRAINAGE SERVICES 1
H-05	1:100	HYDRAULIC SERVICES LOWER GROUND FLOOR DRAINAGE SERVICES 2
H-06	1:100	HYDRAULIC SERVICES GROUND FLOOR DRAINAGE SERVICES 1
H-07	1:100	HYDRAULIC SERVICES GROUND FLOOR DRAINAGE SERVICES 2
H-08	1:100	HYDRAULIC SERVICES LEVEL 1 DRAINAGE SERVICES 1
H-09	1:100	HYDRAULIC SERVICES LEVEL 1 DRAINAGE SERVICES 2
H-10	1:100	HYDRAULIC SERVICES LEVEL 2 DRAINAGE SERVICES
H-11	1:100	HYDRAULIC SERVICES ROOF DRAINAGE SERVICES 1
H-12	1:100	HYDRAULIC SERVICES ROOF DRAINAGE SERVICES 2
H-13	1:100	HYDRAULIC SERVICES LOWER GROUND FLOOR IN GROUND PRESSURE SERVICES 1
H-14	1:100	HYDRAULIC SERVICES LOWER GROUND FLOOR IN GROUND PRESSURE SERVICES 2
H-15	1:100	HYDRAULIC SERVICES GROUND FLOOR SUPPLY SERVICES 1
H-16	1:100	HYDRAULIC SERVICES GROUND FLOOR SUPPLY SERVICES 2
H-17	1:100	HYDRAULIC SERVICES LEVEL 1 SUPPLY SERVICES 1
H-18	1:100	HYDRAULIC SERVICES LEVEL 1 SUPPLY SERVICES 2
H-19	1:100	HYDRAULIC SERVICES LEVEL 2 SUPPLY SERVICES 1
H-20	1:100	HYDRAULIC SERVICES ROOF SUPPLY SERVICES

All element in lighter shade are not part of Construction Certificate 3 submission

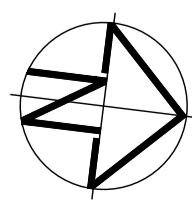
CC3 shall include the following elements

- Roof
- Custom Orb External Cladding
- Eaves Gutter
- Gutter drainage
- External windows, doors and sliding doors

Excluded from this submission.

- Internal services and finishes
- Stair 5 & 6 flight
- Landscape

	FLOW INDICATOR & TOTALISER
	TEMPERATURE INDICATOR & TRANSMITTER
	SEWER MANHOLE
	SPREADER
	FIRE HOSEREEL
	FIRE HYDRANT



COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

ISSUE	AMENDMENT	DATE
01	FOR CONSTRUCTION	04.03.22
P2	DESIGN DEVELOPMENT	10.02.22
P1	COORDINATION ISSUE	25.10.21

PLUMBING CONTRACTOR



HYDRA BUILD
34 Windsor Street,
Marrickville NSW 2156
T +61 2 9311 0330

info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

**Museum of
Applied Arts
& Sciences**

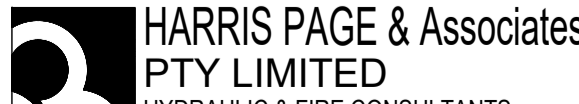
ARCHITECT / PROJECT MANAGER



Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia

T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS



HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone: (02) 9262 1600 Fax: (02) 9262 5385
Email: info@harrispage.com.au ABN: 008 548 098

PROJECT

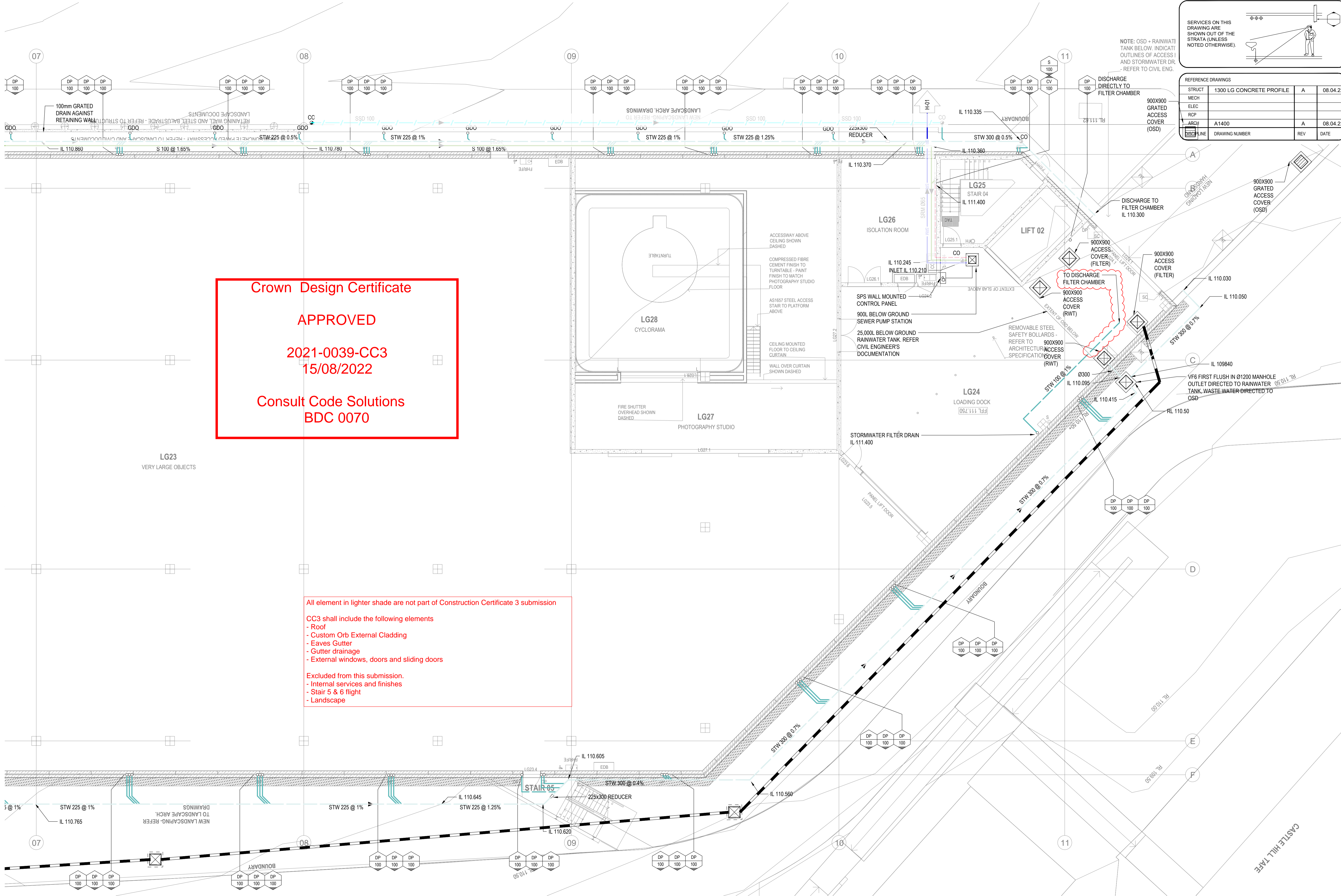
**BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill**

DRAWING TITLE

**HYDRAULIC SERVICES
COVERSHEET
LEGENDS & NOTES**

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	1 of 21	NTS @ A1
PROJECT No.		DRAWING No.		REVISION
6819		H-00		01

FOR CONTINUATION REFER TO H-02



SERVICES ON THIS DRAWING ARE SHOWN OUT OF THE STRATA (UNLESS NOTED OTHERWISE).

NOTE: OSD + RAINWATER TANK BELOW. INDICATE OUTLINES OF ACCESS AND STORMWATER DR. REFER TO CIVIL ENG.

REFERENCE DRAWINGS

STRUCT	1300 LG CONCRETE PROFILE	A	08.04.22
MECH			
ELEC			
RCP			
ARCH	A1400	A	08.04.22
DISCIPLINE	DRAWING NUMBER	REV	DATE

COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

07	FOR CONSTRUCTION	29.06.22
06	FOR CONSTRUCTION	13.04.22
05	FOR CONSTRUCTION	04.03.22
04	DESIGN DEVELOPMENT	10.02.22
03	FOR CONSTRUCTION	21.01.22
ISSUE	AMENDMENT	DATE

PLUMBING CONTRACTOR

HYDRABUILD
34 Windsor Street,
Marrville, NSW, 2036
T +61 2 9311 0330
info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

Museum of Applied Arts & Sciences

ARCHITECT / PROJECT MANAGER

lahznimmo architects
Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates PTY LIMITED
HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone: (02) 9262 1600 Fax: (02) 9262 6385
Email: info@harrispage.com.au ABN 008 548 098

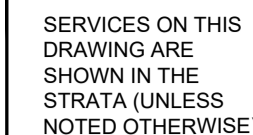
PROJECT

**BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill**

DRAWING TITLE

**HYDRAULIC SERVICES
Lower Ground Floor in Ground
Drainage Services (2 of 2)**


DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	4 of 21	1:100@ A1
PROJECT No.		DRAWING No.		REVISION
6819		H-03		07



REFERENCE DRAWINGS

VP	DP	DP	DP
50	100	100	100

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	12 of 21	1:100 @ A1
PROJECT No.		DRAWING No.		REVISION
6819		H-11		02



COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved
This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd.
Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

02	FOR CONSTRUCTION	13.04.22
01	FOR CONSTRUCTION	04.03.22
P5	DESIGN DEVELOPMENT	10.02.22
P4	FOR APPROVAL	10.12.21
P3	FOR APPROVAL	29.11.21

HYDRABUILD
34 Windsor Street,
Matraville, NSW, 2036
T +61 2 9311 0330
info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 72

**Museum of
Applied Arts
& Sciences**

Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia

T 02 9550 5200
F 02 9550 5233
www.lahnimmo.com

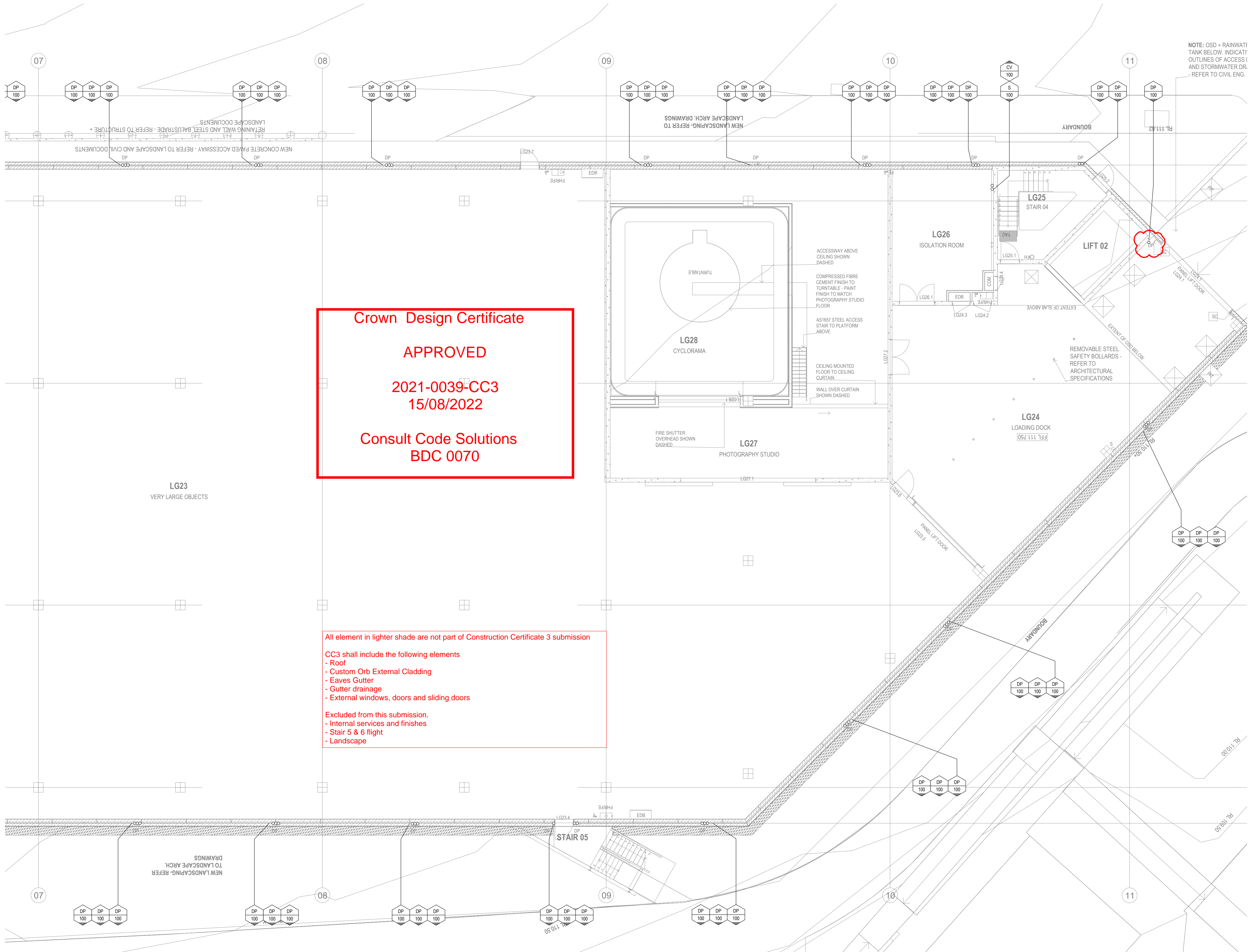


HARRIS PAGE & Associates
PTY LIMITED
 HYDRAULIC & FIRE CONSULTANTS
 Level 2, 32 Carrington Street, Sydney NSW Australia 2000
 Telephone (02) 9262 1600 Fax (02) 9262 6385
 Email: info@harrispage.com.au ARN 008 548 098

BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

HYDRAULIC SERVICES
Roof Drainage Services
(1 of 2)

FOR CONTINUATION REFER TO H-04



SERVICES ON THIS DRAWING ARE SHOWN IN THE STRATA (UNLESS NOTED OTHERWISE).

REFERENCE DRAWINGS			
STRUCT	1300 LG CONCRETE PROFILE	A	08.04.22
MECH			
ELEC			
RCP			
ARCH	A1400	A	08.04.22
DISCIPLINE	DRAWING NUMBER	REV	DATE

COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

ISSUE	AMENDMENT	DATE
03	FOR CONSTRUCTION	13.04.22
02	DESIGN DEVELOPMENT	10.02.22
01	FOR CONSTRUCTION	21.01.22
P3	FOR APPROVAL	29.11.21
P2	CONSTRUCTION CERTIFICATE 2 ISSUE	12.11.21

PLUMBING CONTRACTOR

HYDRABUILD
34 Windsor Street,
Marrville, NSW, 2106
T +61 2 9311 0390
info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

Museum of Applied Arts & Sciences

ARCHITECT / PROJECT MANAGER

lahznimmo architects
Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates
PTY LIMITED
HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone (02) 9262 1600 Fax (02) 9262 6385
Email: info@harrispage.com.au ABN 008 548 098

PROJECT

**BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill**

DRAWING TITLE

**HYDRAULIC SERVICES
Lower Ground Floor
Drainage Services (2 of 2)**

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	6 of 21	1:100@ A1

PROJECT No.	DRAWING No.	REVISION
6819	H-05	03

SERVICES ON THIS
DRAWING ARE
SHOWN IN THE
STRATA (UNLESS
NOTED OTHERWISE).

REFERENCE DRAWINGS			
STRUCT	1300-LG CONCRETE PROFILE	A	08.04.22
MECH	M020,M021,M0222	A	19.10.21
ELEC			
RCP			
ARCH	A1400	A	08.04.22
DISCIPLINE	DRAWING NUMBER	REV	DATE

FOR CONTINUATION REFER TO H-05

Crown Design Certificate

APPROVED

2021-0039-CC3
15/08/2022

Consult Code Solutions
BDC 0070

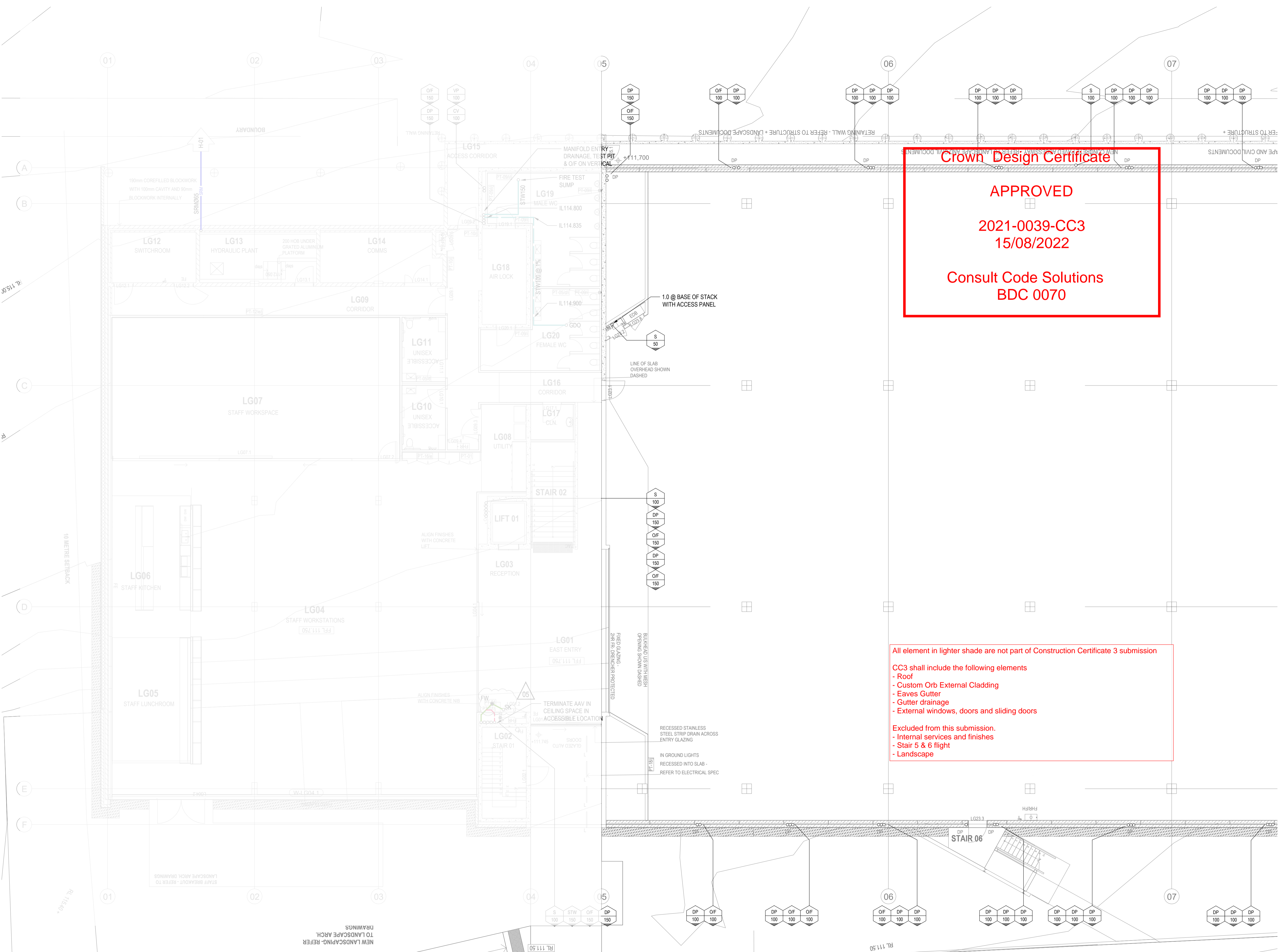
All element in lighter shade are not part of Construction Certificate 3 submission

CC3 shall include the following elements

- Roof
- Custom Orb External Cladding
- Eaves Gutter
- Gutter drainage
- External windows, doors and sliding doors

Excluded from this submission.

- Internal services and finishes
- Stair 5 & 6 flight
- Landscape



COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

05	FOR CONSTRUCTION	28.04.22
04	FOR CONSTRUCTION	13.04.22
03	FOR CONSTRUCTION	04.03.22
02	DESIGN DEVELOPMENT	10.02.22
01	FOR CONSTRUCTION	21.01.22
ISSUE	AMENDMENT	DATE

PLUMBING CONTRACTOR

HYDRA BUILD

HYDRABUILD
34 Windsor Street,
Marrickville, NSW, 2136
T +61 2 9311 0330
info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

Museum of Applied Arts & Sciences

ARCHITECT / PROJECT MANAGER

lahznimmo architects

Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia

T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates PTY LIMITED

HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone: (02) 9262 1600 Fax: (02) 9262 6385
Email: info@harrispage.com.au ABN: 008 548 008

PROJECT

**BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill**

DRAWING TITLE

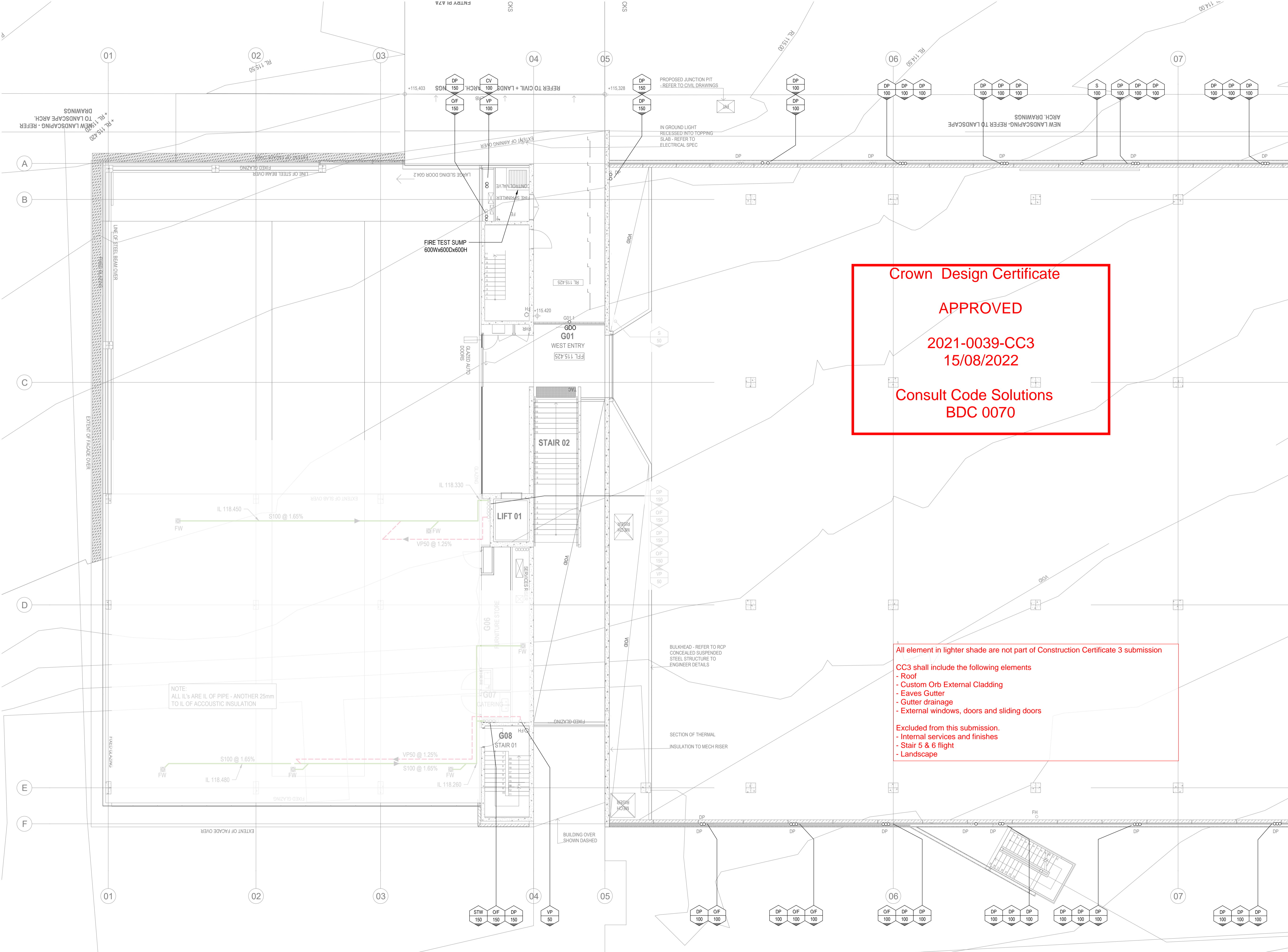
**HYDRAULIC SERVICES
Lower Ground Floor
Drainage Services (1 of 2)**

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	5 of 21	1:100@ A1
PROJECT No.		DRAWING No.		REVISION
6819		H-04		05

SERVICES ON THIS
DRAWING ARE
SHOWN IN THE
STRATA (UNLESS
NOTED OTHERWISE).

REFERENCE DRAWINGS			
STRUCT	A1302	A	08.04.22
MECH			
ELEC			
RCP			
ARCH	A1402	A	08.04.22
DISCIPLINE	DRAWING NUMBER	REV	DATE

FOR CONTINUATION REFER TO H-07



All element in lighter shade are not part of Construction Certificate 3 submission

CC3 shall include the following elements

- Roof
- Custom Orb External Cladding
- Eaves Gutter
- Gutter drainage
- External windows, doors and sliding doors

Excluded from this submission.

- Internal services and finishes
- Stair 5 & 6 flight
- Landscape

COPYRIGHT OF HARRIS PAGE & ASSOCIATES Pty Ltd. All rights reserved. This drawing may not be re-produced or transmitted in any form, or by any means in part or in whole without permission from HARRIS PAGE & ASSOCIATES Pty Ltd. Figured dimensions shall be taken in preference to scaling. The contractor shall check all dimensions on drawings and site before commencing work.

05	FOR CONSTRUCTION	13.04.22
04	FOR CONSTRUCTION	28.03.22
03	FOR CONSTRUCTION	04.03.22
02	DESIGN DEVELOPMENT	10.02.22
01	FOR CONSTRUCTION	21.01.22
ISSUE	AMENDMENT	DATE

PLUMBING CONTRACTOR

HYDRABUILD

34 Windsor Street,
Marrickville, NSW, 2156
T +61 2 9311 0330

info@hydrabuild.com.au
www.hydrabuild.com.au
ABN: 72 647 820 728

CLIENT

Museum of
Applied Arts
& Sciences

ARCHITECT / PROJECT MANAGER

lahznimmo
architects

Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia

T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

HYDRAULIC & FIRE SERVICES CONSULTANTS

HARRIS PAGE & Associates
PTY LIMITED

HYDRAULIC & FIRE CONSULTANTS
Level 2, 32 Carrington Street, Sydney NSW Australia 2000
Telephone: (02) 9262 1600 Fax: (02) 9262 6385
Email: info@harrispage.com.au ABN 008 548 008

PROJECT

BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

DRAWING TITLE

HYDRAULIC SERVICES
Ground Floor
Drainage Services (1 of 2)

DATE	DRAWN	CHECKED	No IN SET	SCALE
SEP 2021	AP	KJ	7 of 21	1:100@ A1
PROJECT No.		DRAWING No.		REVISION
6819		H-06		05