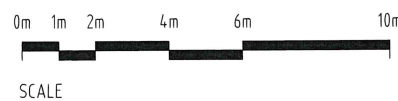


- ### PARTITION NOTES
- REFER TO 200 SERIES DRAWINGS, SPECIFICATIONS & SCHEDULES FOR FURTHER DETAILS
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION & OTHER DIRECTIONS OR INSTRUCTIONS FROM THE ARCHITECT OR SERVICES CONSULTANTS
 - PARTITION SET OUT DISCREPANCIES TO BE APPROVED WITH DESIGNER PRIOR TO CONSTRUCTION.
 - THE BUILDER IS TO ENSURE THAT WHERE SOLID PARTITIONS MEET GLAZED PARTITIONS OR MULLIONS, ALL POSSIBLE GAPS & CAVITIES ARE BLOCKED WITH AN APPROPRIATE MATERIAL TO PROVIDE AN ACOUSTIC SEAL
 - ALL PARTITIONS TO WET AREAS (KITCHENS, BATHROOMS ETC) SHALL BE LINED WITH WET AREA PLASTERBOARD
 - ALL WALL NIBS BEHIND DOOR SWINGS TO BE 110mm UNLESS OTHERWISE NOTED
 - ALL DOORS TO COMPLY WITH AS1428.1-2009 (CURRENT AMENDMENT)
 - * SLIDING DOORS ARE TO HAVE A MINIMUM LATCHSIDE CLEARANCE TO COMPLY WITH AS1428 (CURRENT AMENDMENT)
 - ALL PARTITIONS SUPPORTING JOINERY OR AV EQUIPMENT (REFER TO 200 & 500 SERIES DRAWINGS) ARE TO HAVE ADDITIONAL STUDS & NOGGINGS TO ENSURE SUFFICIENT STRUCTURAL STABILITY TO SUPPORT JOINERY/EQUIPMENT
 - UNLESS NOTED OTHERWISE, ALL PARTITIONS SHALL BE:
 - (A) CENTRED ON THE CEILING GRID
 - (B) CENTRED ON BASE BUILDING MULLIONS
 - (C) ALIGNED WITH THE FACE OF EXISTING BASE BUILDING COLUMNS OR CORE WALLS

- ### PARTITION LEGEND
- EXISTING BASE BUILDING WALLS
 - SLAB TO SLAB PLASTERBOARD PARTITION, SINGLE STUD, 16mm THICK GYPROCK BOARD ON BOTH SIDES
 - SLAB TO SLAB PLASTERBOARD PARTITION, SINGLE STUD, 13mm THICK GYPROCK BOARD ON BOTH SIDES (DW35)
 - FLOOR TO CEILING PLASTERBOARD PARTITION
 - OPERABLE WALL BAFFLE ABOVE CEILING
 - FLOOR TO CEILING ALUMINIUM FRAMED, CLEAR GLAZED PARTITION
 - FLOOR TO CEILING PARTITION, SOLID PLASTERBOARD PARTITION BASE WITH GLAZED INSERT
 - SLAB TO SLAB PARTITION WITH DOUBLE STUD SOLID PLASTERBOARD PARTITION - 174mm PARTITION THICKNESS OVERALL (Rw30)
 - PLASTERBOARD PARTITION BULKHEAD
 - FLOOR TO CEILING PLASTERBOARD PARTITION WITH 1 SIDE PLASTERBOARD ONLY
 - SLAB TO SLAB PARTITION OR PARTITION TO UNDERSIDE OF CEILING WITH BAFFLE OR WAVEBAR OVER TO U/S OF STRUCTURE ABOVE
 - LEVEL 03 ROOM NUMBER 94
 - DOOR LEVEL 15 DOOR NUMBER 95
 - JOINERY, EQUIPMENT, WALL PANNELLING, PINBOARD, WHITEBOARD FIXED & HANG ON WALL - PARTITION TO HAVE ADDITIONAL STUDS & NOGGINGS TO ENSURE SUFFICIENT STRUCTURAL STABILITY TO SUPPORT. REFER TO FINISHES SCHEDULE, 2000 SERIES & 4000 SERIES DRAWINGS FOR DETAIL
 - FULL HEIGHT JOINERY TO THE CEILING - REFER TO 1500 SERIES FOR DETAILS



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- PRELIMINARY	AM	CD	04.03.16
A FOR TENDER	AM	CD	31.03.16
01 FOR CONSTRUCTION	AM	CD	05.05.16
02 FOR CONSTRUCTION	AM	CD	12.05.16

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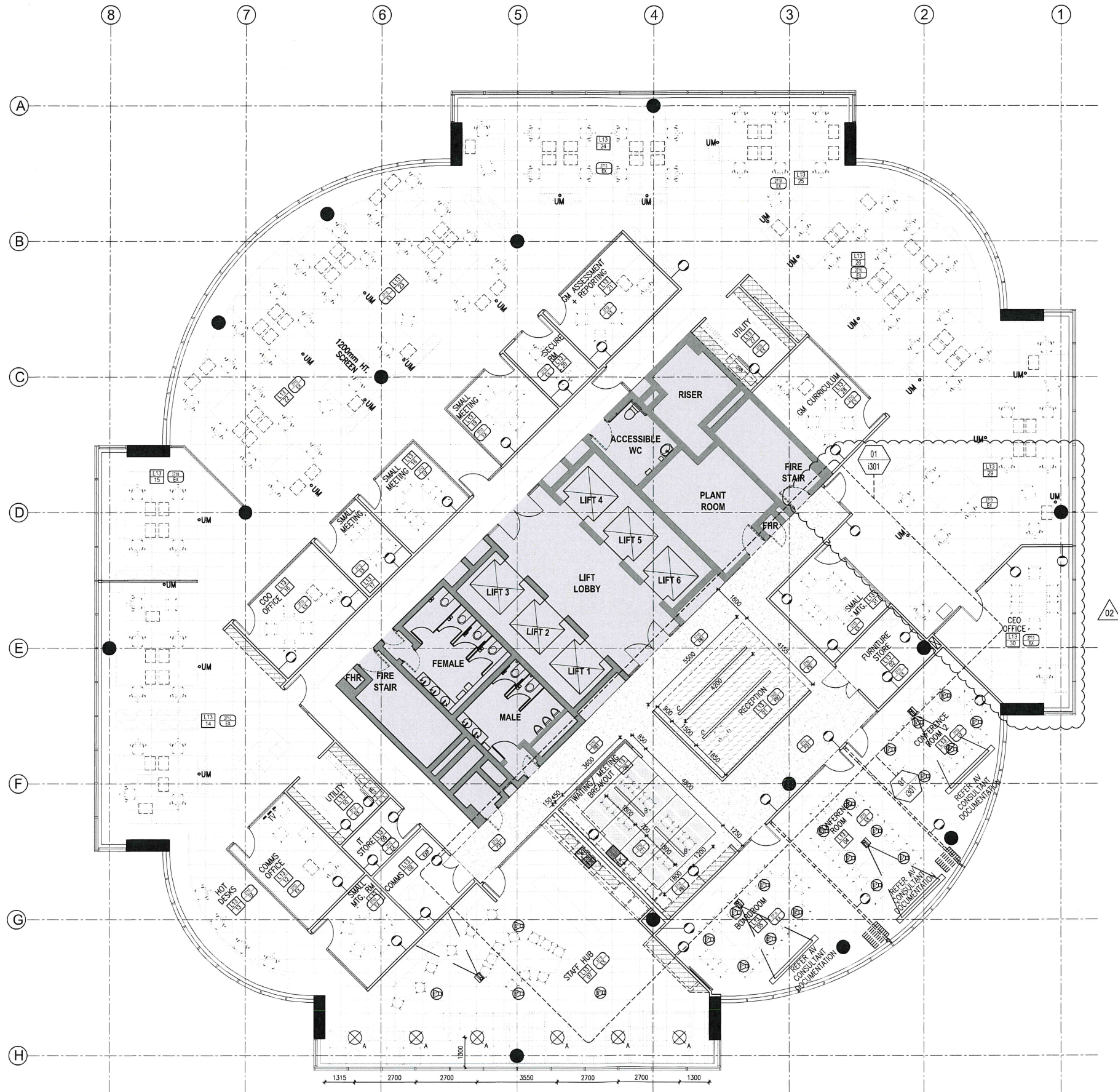
PTID APPROVALS
REASON FOR ISSUE:
FOR CONSTRUCTION

PROJECT
**ACARA
TOWER B, LEVEL 13, 280 ELIZABETH ST.**

TITLE
PARTITION PLAN



SCALE 1:100 @ A1	PROJECT No. 51-5102
DRAWING No. i200	REV. 02



REFLECTED CEILING NOTES

REFER TO 300 SERIES DRAWINGS, SPECIFICATIONS & SCHEDULES FOR FURTHER DETAILS

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION & OTHER DIRECTIONS OR INSTRUCTIONS FROM THE ARCHITECT OR SERVICES CONSULTANTS
- PLASTERBOARD MARGIN TO TILED CEILING AREA, TO BE PAINTED CEILING WHITE
- WHERE SLAB TO SLAB PARTITIONS PENETRATE CEILING GRID; GRID IS TO BE CUT AND NEW ANGLES TO EDGES OF TILES INSTALLED
- WHERE NOMINATED ALLOW FOR CEILING GRID TO BE CUT & PROPRIETARY PROJECTOR SCREEN & HOUSING TO BE INSTALLED
- ALL SERVICES PENETRATIONS TO SLAB TO SLAB PARTITIONS TO BE PROPERLY SEALED - REFER TO SERVICES DWGS FOR DETAILS
- BUILDER TO ENSURE PARTITIONS ABUT CEILING JUNCTION IN A SEAMLESS FINISH
- BUILDER TO MODIFY CEILING GRID, AS REQUIRED, AS A RESULT OF:
 - NEW WALL CONSTRUCTION,
 - DEMOLISHED WALLS AND
 - INSTALLATION OF SERVICES INCLUDING BUT NOT LIMITED TO FIRE, LIGHTING, HYDRAULIC & MECHANICAL.
- BUILDER TO PROVIDE & INSTALL ALL CEILING TILES REQUIRED, INCLUDING REPLACEMENT OF DAMAGED TILES.

REFLECTED CEILING LEGEND

- SLAB TO SLAB PARTITION OR PARTITION TO UNDERSIDE OF CEILING WITH BAFFLE OR WAVEBAR OVER TO U/S OF STRUCTURE ABOVE
- CEILING HEIGHT AND TYPE:
 - 2700 = HEIGHT
 - EX = EXISTING CEILING
 - PB = PLASTERBOARD
 - TI = TILES
- 1200mm WIDE ACOUSTIC INSULATION CENTRED OVER PARTITION IN CEILING SPACE. REFER TO SPECIFICATION
- FULL HEIGHT JOINERY ITEMS TO CEILING LEVEL
- PLASTER CEILING
- PERFORATED PLASTERBOARD CEILING - SCRM BACKING & 40mm THK 32kg/m3 GLASSWOOL / POLYESTER INSULATION BEHIND THE CEILING
- EXPOSED SLAB SLAB TO BE PAINTED WHITE
- PENDANT LIGHT
- SUSPENDED LINEAR LIGHT (REFER TO SERVICES ENGINEER'S SPECIFICATIONS)
- RECESSED LINEAR EXTRUSION WITH DIFFUSER (REFER TO SERVICES ENGINEER'S SPECIFICATIONS)
- WORKSTATION UMBILICAL (REFER TO 1600 SERIES DRAWINGS) INDICATIVE LOCATION SHOWN. LOCATION TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION
- ACCESS PANEL

ISS REVISION	DRN	CHK/APP	DATE	ISS REVISION	DRN	CHK/APP	DATE
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B TENDER ADDENDUM	AM	CD	04.04.16				
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02 FOR CONSTRUCTION	AM	CD	12.05.16				



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PTID APPROVALS
REASON FOR ISSUE:
FOR CONSTRUCTION

PROJECT
**ACARA
TOWER B, LEVEL 13, 280 ELIZABETH ST.**
TITLE
REFLECTED CEILING PLAN



SCALE
1:100 @ A1
DRAWING No.
PROJECT No.
51-5102
REV.
1300
02

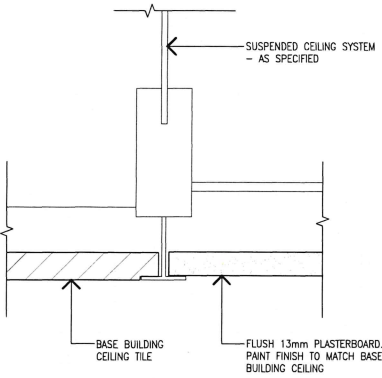
REFLECTED CEILING NOTES

REFER TO 300 SERIES DRAWINGS, SPECIFICATIONS & SCHEDULES FOR FURTHER DETAILS

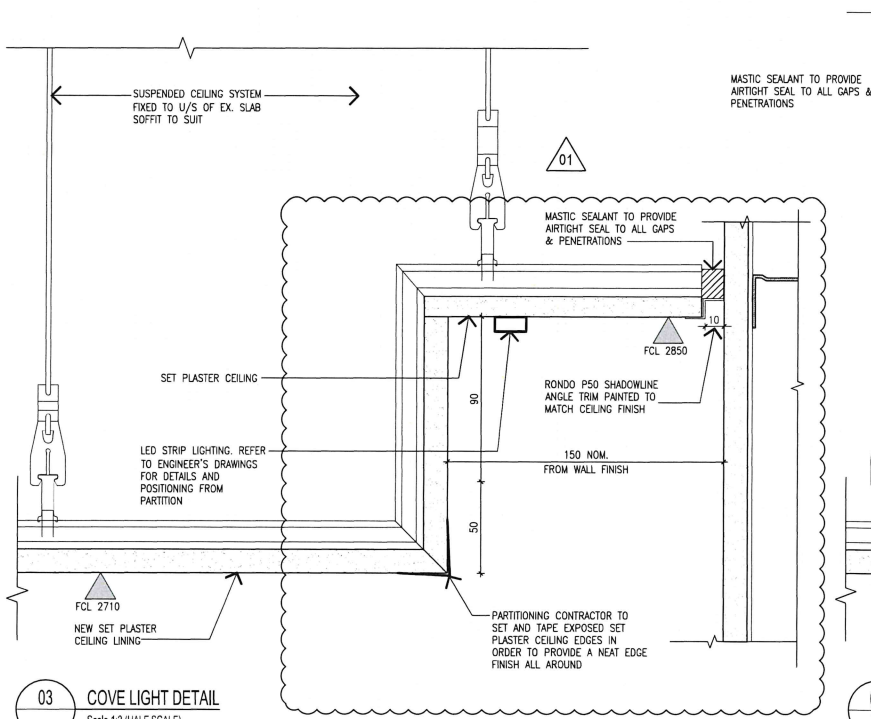
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION & OTHER DIRECTIONS OR INSTRUCTIONS FROM THE ARCHITECT OR SERVICES CONSULTANTS
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- BUILDER TO PROVIDE & INSTALL ALL CEILING TILES REQUIRED, INCLUDING REPLACEMENT OF DAMAGED TILES.

REFLECTED CEILING LEGEND

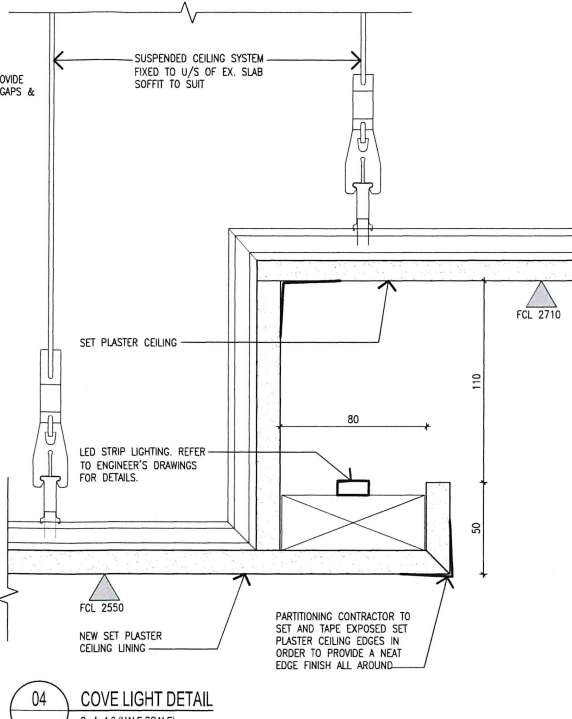
- SLAB TO SLAB PARTITION OR PARTITION TO UNDERSIDE OF CEILING WITH BAFFLE OR WAVEBAR OVER TO U/S OF STRUCTURE ABOVE
- CEILING HEIGHT AND TYPE:
 - 2700 = HEIGHT
 - EX = EXISTING CEILING
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 - TI = TILES
- 1200mm WIDE ACOUSTIC INSULATION CENTRED OVER PARTITION IN CEILING SPACE. REFER TO SPECIFICATION
- FULL HEIGHT JOINERY ITEMS TO CEILING LEVEL
- PLASTER CEILING
- PERFORATED PLASTERBOARD CEILING - SCRM BACKING & 40mm THK 32kg/m³ GLASSWOOL / POLYESTER INSULATION BEHIND THE CEILING
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- WORKSTATION UNBILICAL (REFER TO 1600 SERIES DRAWINGS) INDICATIVE LOCATION SHOWN. LOCATION TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION
- ACCESS PANEL



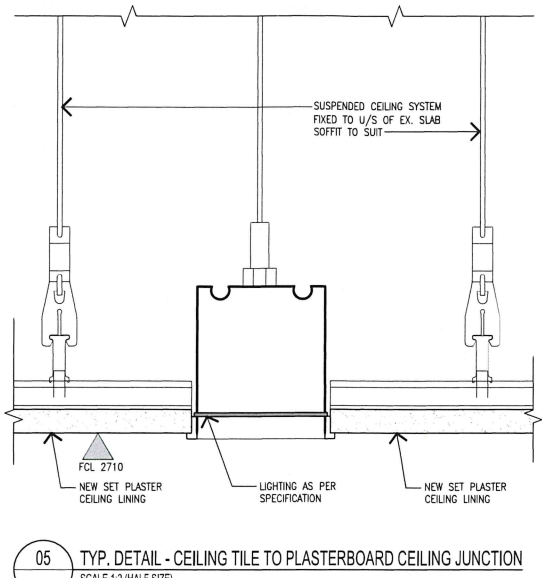
02 TYP. DETAIL - CEILING TILE TO PLASTERBOARD CEILING JUNCTION
Scale 1:2 (HALF SIZE)



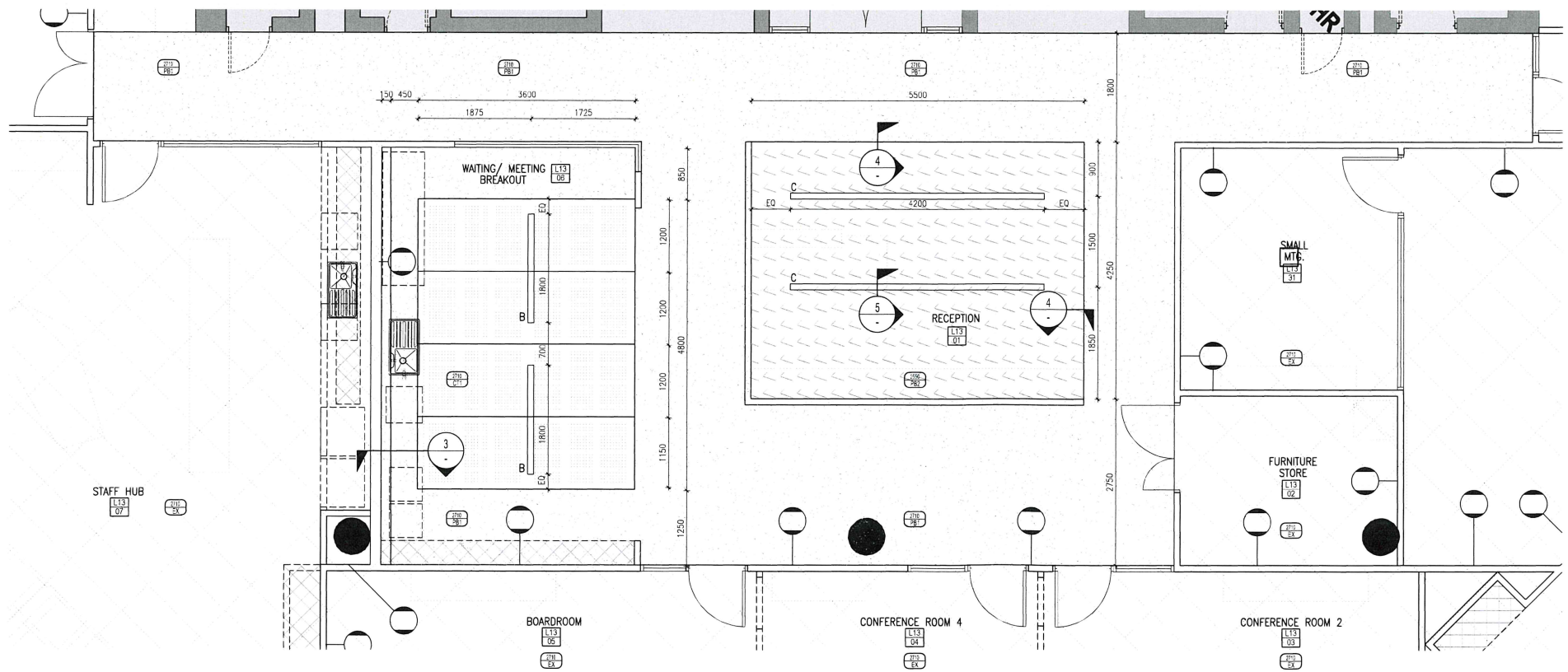
03 COVE LIGHT DETAIL
Scale 1:2 (HALF SCALE)



04 COVE LIGHT DETAIL
Scale 1:2 (HALF SCALE)



05 TYP. DETAIL - CEILING TILE TO PLASTERBOARD CEILING JUNCTION
Scale 1:2 (HALF SIZE)



01 PLAN- FEATURE CEILING
Scale 1:50

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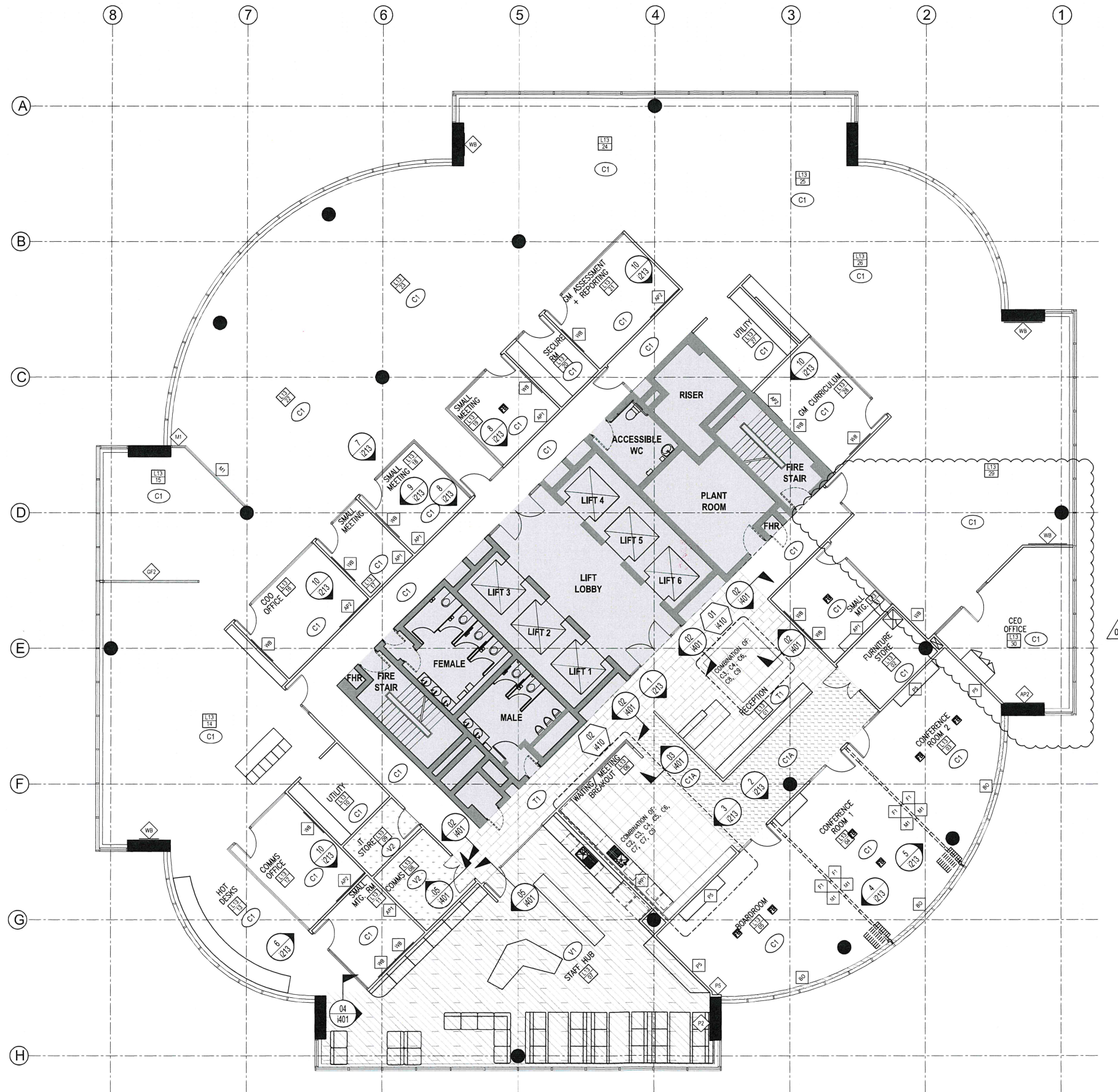
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PTID APPROVALS REASON FOR ISSUE FOR CONSTRUCTION

PROJECT
ACARA
TOWER B, LEVEL 13, 280 ELIZABETH ST.
TITLE
CEILING DETAILS



SCALE	PROJECT No.
1:100 @ A1	51-5102
DRAWING No.	REV.
1301	01



FINISHES NOTES

REFER TO 400 SERIES DRAWINGS, SPECIFICATIONS & SCHEDULES FOR FURTHER DETAILS

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION & OTHER DIRECTIONS OR INSTRUCTIONS FROM THE ARCHITECT OR SERVICES CONSULTANTS
- ALL FINISHES TO BE INSTALLED/APPLIED AS PER MANUFACTURERS RECOMMENDATIONS
- UNLESS NOTED OTHERWISE, ALL NEW TENANCY PARTITIONS, EXISTING COLUMNS, BASE BUILDING WALLS, CORE WALLS, SILLS & EXISTING CORE CEILING TO BE PAINTED IN FINISH P1. REFER TO FINISHES SCHEDULE
- UNLESS NOTED OTHERWISE, ALL DOORS TO BE PAINTED IN PAINT FINISH P2. REFER TO FINISHES SCHEDULE
- FINAL POSITION OF ALL HIGHLIGHT COLOURS TO BE CONFIRMED PRIOR TO COMMENCEMENT OF WORK
- LIFT DOOR SURFACES & SURROUNDS TO BE PATCHED WHERE NECESSARY & FINISHED IN FEATURE PAINT COLOUR. REFER TO FINISHES SCHEDULE
- ANY GRAPHICS TO BE APPLIED TO PLASTER OR MDF SURFACES REQUIRE A HIGH GLOSS, NON SILICON, NON TEFLON ENAMEL PAINT, CURED FOR A MINIMUM OF 5 DAYS PRIOR TO FILM APPLICATION, AS PER FILM CONTRACTOR SPECIFICATIONS
- CARPET TO BE PATCHED UPON DEMO OF WALLS.
- BUILDER TO ALLOW TO INSTALL NEW CARPET WHERE OLD CARPET IS LOCATED UNDER ALL DEMOLITION.

WALL FINISHES LEGEND

- GF GLAZING FILM. REFER TO FINISHES SCHEDULE & 200 SERIES DRAWINGS FOR DETAIL
- P PAINT FINISH. REFER TO FINISHES SCHEDULE & 200 SERIES DRAWINGS FOR DETAIL
- WP WALL PANNELLING. REFER TO FINISHES SCHEDULE, 200 SERIES & 500 SERIES DRAWINGS FOR DETAIL
- WT WALL TILE. REFER TO FINISHES SCHEDULE & 200 SERIES DRAWINGS FOR DETAIL
- BO EXTENT OF BLOCKOUT WINDOW COVERINGS. IN ADDITION TO EXISTING SUNSCREEN BLINDS. REFER TO FINISHES SCHEDULE & 400 SERIES DRAWINGS FOR DETAIL
- FB FLOOR BOXES REFER TO STRUCTURAL ENGINEERS ADVICE

FLOOR FINISHES LEGEND

PATTERNS SHOWN ARE INDICATIVE OF THE EXTENT OF THE FLOOR FINISH ONLY. REFER TO 400 SERIES DRAWINGS & FINISHES SCHEDULE FOR FURTHER DETAIL

- C1 - SELECTED BASE BUILDING CARPET
- C1A - SELECTED BASE BUILDING CARPET WITHOUT CUSHION BAC
- COMBINATION OF C2, C3, C4, C5, C6, C7, C8, C9 CARPET TILE WITH NO CUSHION BACK REFER TO 1400 DRAWING SERIES FOR THE PATTERN
- T1 - SELECTED FLOOR TILE
- V1 - SELECTED VINYL PLANK FLOORING
- V2 - SELECTED ANTI-STATIC VINYL SHEET FLOORING
- FB - FLOOR BOX

NOTE:
UNLESS NOTED OTHERWISE, ALL FLOOR FINISHES TO BE BASE BUILDING CARPET

ISS REVISION	DRN	CHK/APP	DATE	ISS REVISION	DRN	CHK/APP	DATE
PRELIMINARY	AM	CD	04.03.16				
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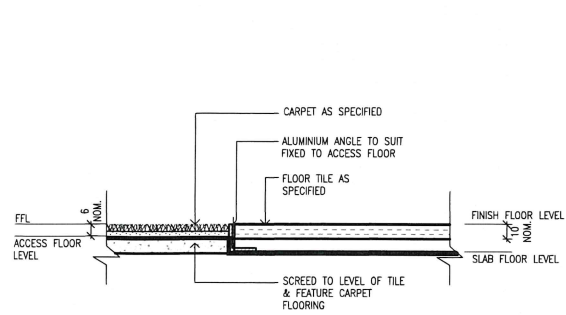
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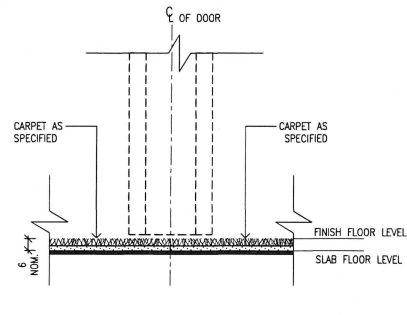
PROJECT
ACARA
TOWER B, LEVEL 13, 280 ELIZABETH ST.
TITLE
FINISHES PLAN



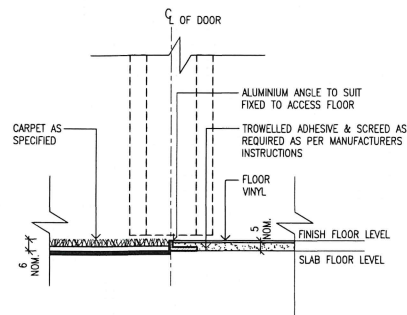
SCALE
1:100 @ A1
DRAWING No.
i400
PROJECT No.
51-5102
REV.
02



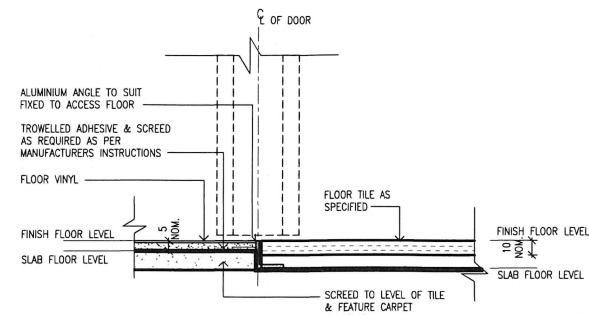
02 CARPET TO TILE JUNCTION
SECTION SCALE 1:2



03 CARPET TO CARPET JUNCTION
SECTION SCALE 1:2



04 CARPET TO VINYL JUNCTION
SECTION SCALE 1:2



05 TILE TO VINYL JUNCTION
SECTION SCALE 1:2

FINISHES NOTES

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- CARPET TO BE PATCHED UPON DEMO OF WALLS.
- BUILDER TO ALLOW TO INSTALL NEW CARPET WHERE OLD CARPET IS LOCATED UNDER ALL DEMOLITION.

WALL FINISHES LEGEND

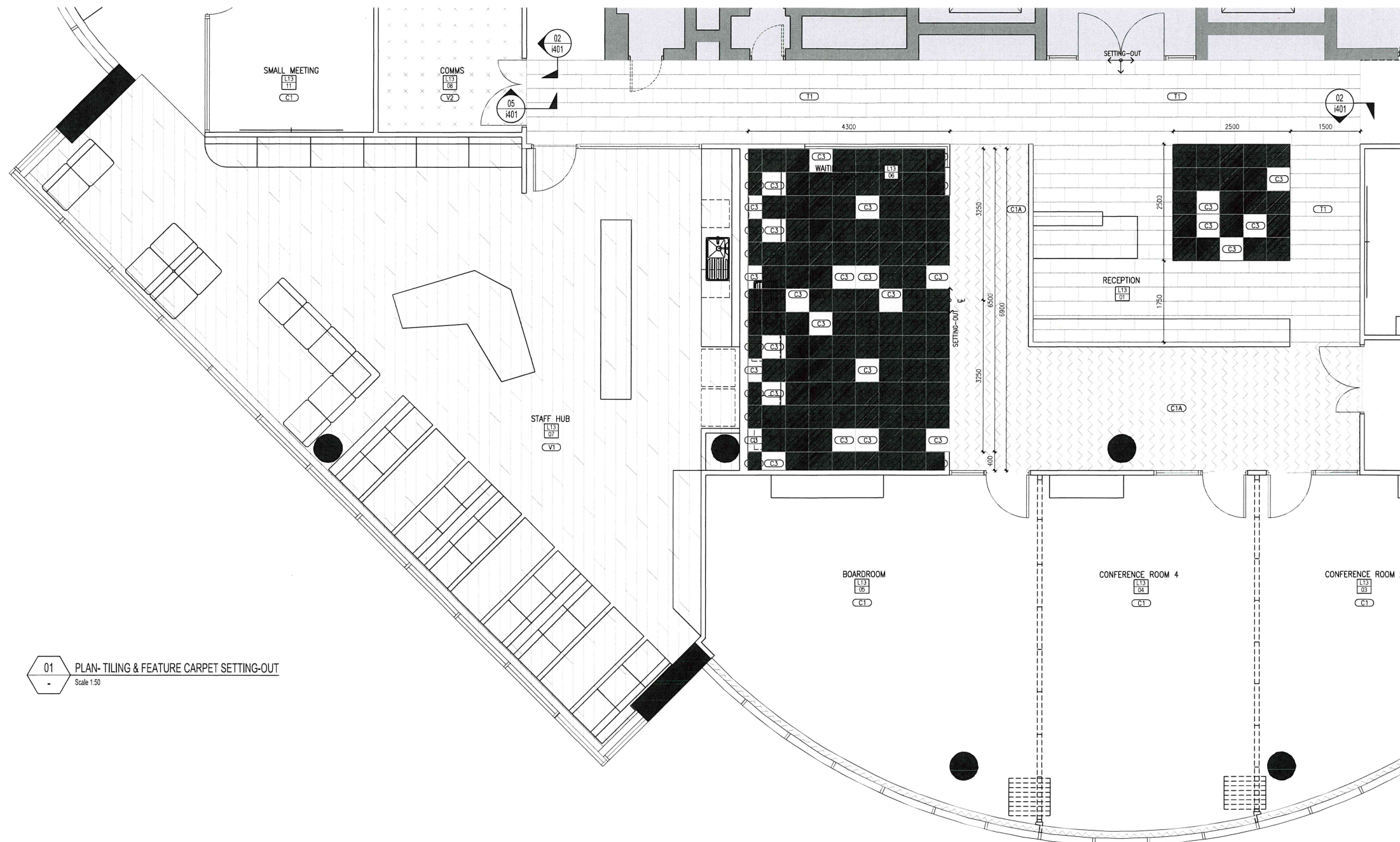
- GF GLAZING FILM. REFER TO FINISHES SCHEDULE & 200 SERIES DRAWINGS FOR DETAIL
- P PAINT FINISH. REFER TO FINISHES SCHEDULE & 200 SERIES DRAWINGS FOR DETAIL
- WP WALL PANNELLING. REFER TO FINISHES SCHEDULE, 200 SERIES & 500 SERIES DRAWINGS FOR DETAIL
- WT WALL TILE. REFER TO FINISHES SCHEDULE & 200 SERIES DRAWINGS FOR DETAIL
- BC EXTENT OF BLOCKOUT WINDOW COVERINGS. IN ADDITION TO EXISTING SUNSCREEN BLINDS. REFER TO FINISHES SCHEDULE & 400 SERIES DRAWINGS FOR DETAIL
- FB FLOOR BOXES REFER TO STRUCTURAL ENGINEERS ADVICE

FLOOR FINISHES LEGEND

PATTERNS SHOWN ARE INDICATIVE OF THE EXTENT OF THE FLOOR FINISH ONLY. REFER TO 400 SERIES DRAWINGS & FINISHES SCHEDULE FOR FURTHER DETAIL

- C1 - SELECTED BASE BUILDING CARPET
- C1A - SELECTED BASE BUILDING CARPET WITHOUT CUSHION BAC
- COMBINATION OF C2, C3, C4, C5, C6, C7, C8, C9 CARPET TILE WITH NO CUSHION BACK REFER TO 400 DRAWING SERIES FOR THE PATTERN
- T1 - SELECTED FLOOR TILE
- V1 - SELECTED VINYL PLANK FLOORING
- V2 - SELECTED ANTI-STATIC VINYL SHEET FLOORING
- FB - FLOOR BOX

NOTE:
UNLESS NOTED OTHERWISE, ALL FLOOR FINISHES TO BE BASE BUILDING CARPET



01 PLAN-TILING & FEATURE CARPET SETTING-OUT
Scale 1:50

ISS REVISION	DRN	CHK/APP	DATE
PRELIMINARY	AM	CD	04.03.16
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PROJECT
ACARA
TOWER B, LEVEL 13, 280 ELIZABETH ST.
TITLE
FLOOR DETAILS

SCALE
1:100 @ A1
DRAWING No.
i401
PROJECT No.
51-5102
REV.
01

ACARA

Tower B, Level 13

280 Elizabeth Street

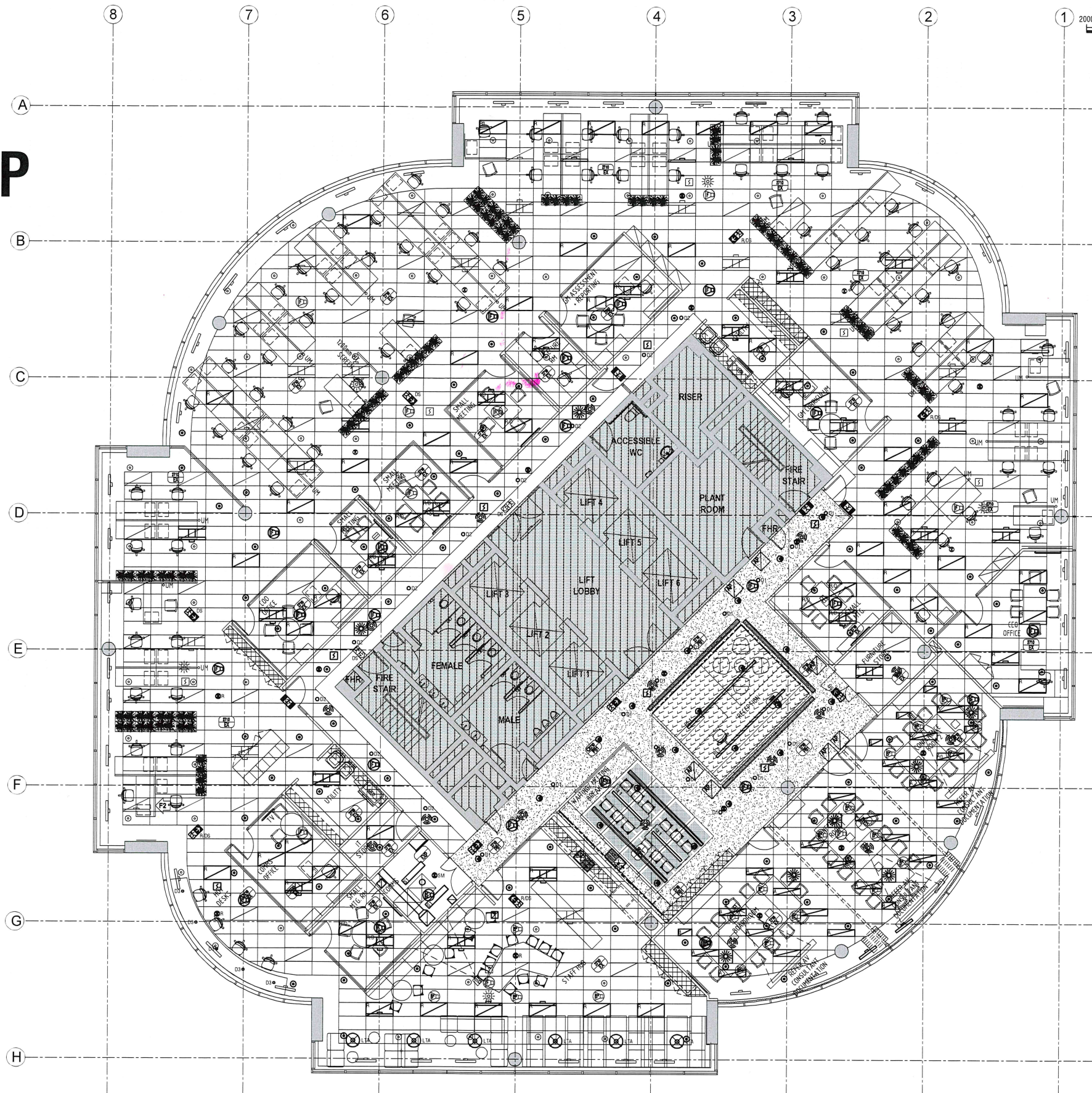
Surry Hills NSW 2000

CO-ORDINATED RCP



FOR
CONSTRUCTION

SCALE 1 : 100 @ A1 - DIMENSIONS ARE IN MILLIMETRES



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Rev.	Description	Date
A	TENDER ISSUE	05/04/16
B	CONSTRUCTION ISSUE	06/05/16
C	CONSTRUCTION ISSUE	13/05/16



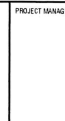
ASTON

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ASSESSMENT AND
REPORTING AUTHORITY



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PROJECT

ACARA
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DRAWING TITLE

CO-ORDINATED RCP
LEVEL 13 FLOOR PLAN
CEILING SERVICES LAYOUT

DRAWN

FR/JM/TV

DATE

February 16

DESIGNED

FR/JM/TV

CHECKED

JW

DRAWING No.

16009N - C00

SCALE (AT FULL SIZE)

1 : 100 @ A1

REVISION

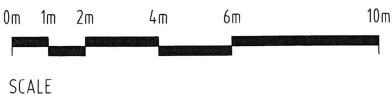
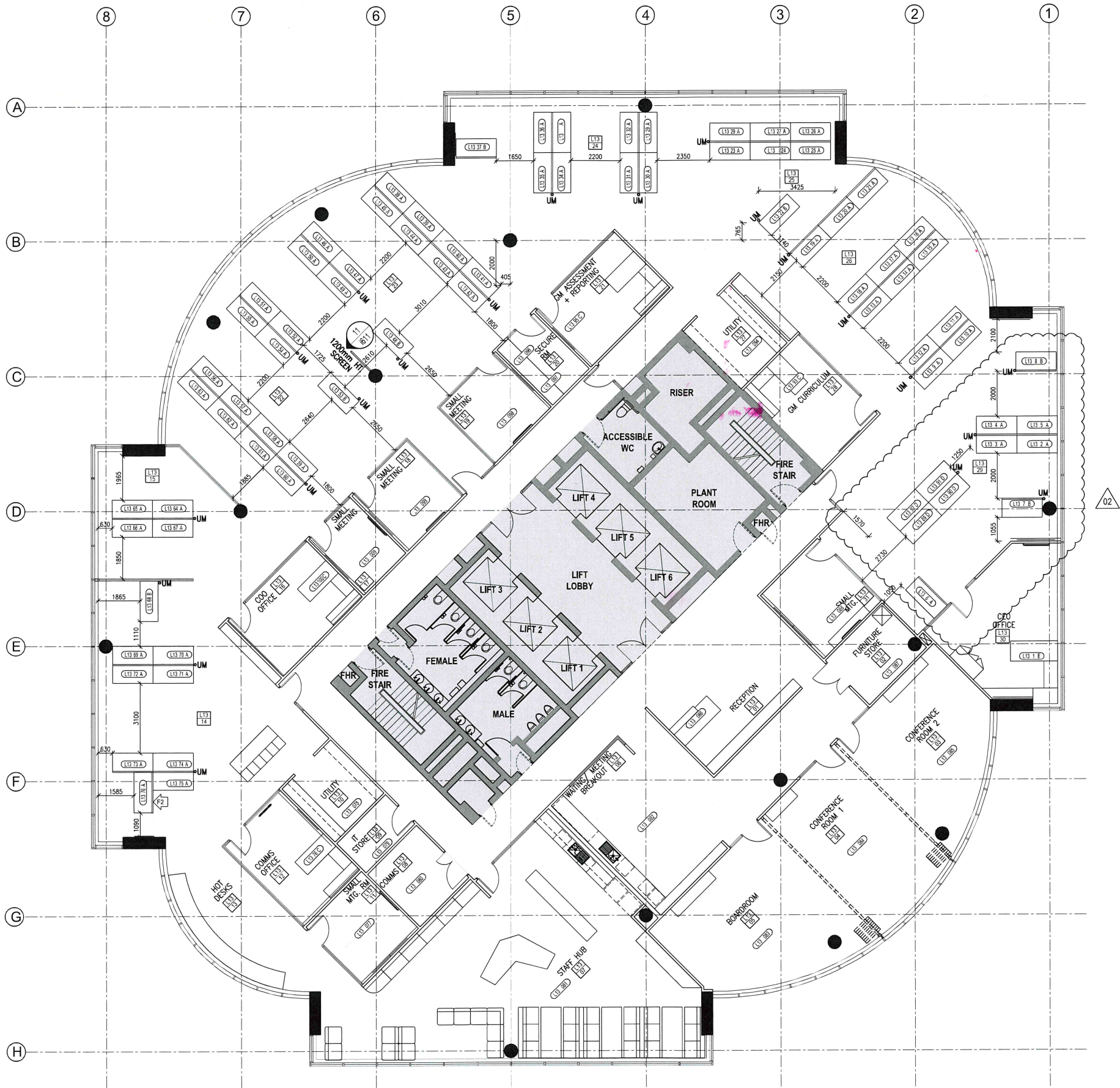
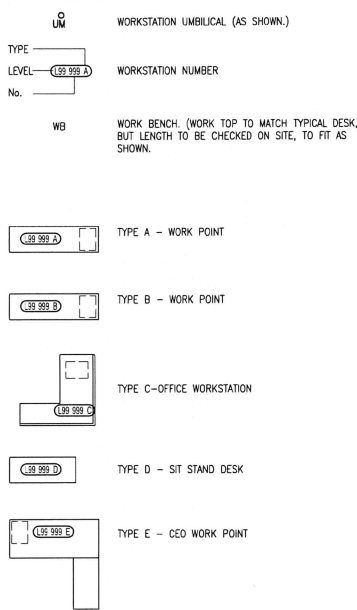
C

WORKSTATION NOTES

REFER TO 600 SERIES DRAWINGS, SPECIFICATIONS & SCHEDULES FOR FURTHER DETAILS

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION & OTHER DIRECTIONS OR INSTRUCTIONS FROM THE ARCHITECT OR SERVICES CONSULTANTS
- WORKSTATION CONTRACTOR IS TO PROVIDE SHOP DRAWINGS FOR DESIGNER'S APPROVAL PRIOR TO MANUFACTURE OF WORKSTATIONS
- WHERE APPLICABLE, WORKSTATIONS ARE TO BE WIRED TO BASE BUILDING MODULINE
- WHERE POSSIBLE, WORKSTATION POWERBLADES/UMBILICALS SHOULD BE KEPT TO A MINIMUM. DRAWINGS INDICATE PREFERRED LOCATIONS, ANY CHANGES ARE TO BE APPROVED BY DESIGNER PRIOR TO CONSTRUCTION.
- WORKSTATION INFILL LENGTHS ARE TO BE CHECKED ON SITE.
- SHOP DRAWINGS TO BE BASED ON MINIMUM CLEARANCE DIMENSIONS SHOWN ON ARCHITECTURAL DRAWINGS
- WORKSTATION MANUFACTURER/INSTALLER MUST CARRY OUT A SITE SURVEY TO PREPARE SHOP DRAWINGS
- WHERE WORKTOPS/SCREENS ARE REQUIRED TO BE MODIFIED TO COMPLY WITH MINIMUM 1000mm CLEARANCE, THIS WILL BE CARRIED OUT AT NO ADDITIONAL COST TO THE CLIENT

WORKSTATION LEGEND



ISS REVISION	DRN	CHK/APP	DATE	ISS REVISION	DRN	CHK/APP	DATE
1 PRELIMINARY	AM	CD	29.02.16				
2 PRELIMINARY	AM	CD	21.03.16				
3 FOR TENDER	AM	CD	31.03.16				
4 FOR CONSTRUCTION	AM	CD	05.05.16				
5 FOR CONSTRUCTION	AM	CD	12.05.16				



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PTID APPROVALS
 REASON FOR ISSUE
 FOR CONSTRUCTION

PROJECT
 ACARA
 TOWER B, LEVEL 13, 280 ELIZABETH ST.
 TITLE
 WORKSTATION LA OUT PLAN



SCALE
 1:100 @A1
 PROJECT No.
 51-5102
 DRAWING No.
 i600
 REV.
 02

NOTES

- THE SCOPE OF WORK INCLUDES THE SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING, WARRANTING AND MAINTENANCE OF THE ELECTRICAL SERVICES IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATION, TOGETHER WITH ALL ASSOCIATED MINOR, INCIDENTAL AND SUNDRY WORK AS NEEDED TO SUITABLY COMPLETE THE PROJECT. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATION.
- OBTAIN ALL NECESSARY APPROVALS FOR THE WORKS PRIOR TO COMMENCEMENT AND PAY ALL FEES REQUIRED. ALLOW FOR AND CO-ORDINATE STAGING OF THE WORKS, OUT OF NORMAL HOURS WORK AND POWER INTERRUPTIONS TO THE PROJECT.
- IF ANY DISCREPANCY OCCURS BETWEEN THE DRAWINGS, NOTES AND SPECIFICATION, ASSUME THE LARGER/GREATER. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS NOTED ARE IN MILLIMETERS AND CONDUIT SIZES SHOWN ARE IN NOMINAL BORE DIAMETER UNLESS NOTED OTHERWISE.
- DESIGN, SUPPLY, INSTALL, TEST AND COMMISSION THE ELECTRICAL SERVICES TO THE PROPOSED BUILDING IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - NATIONAL CONSTRUCTION CODE OF AUSTRALIA (CURRENT EDITION)
 - APPLICABLE NETWORK STANDARDS
 - NSW SERVICE AND INSTALLATION RULES
 - AS 3000, AS 2293 AND OTHER APPLICABLE AUSTRALIAN STANDARDS
 - LOCAL FIRE AUTHORITY
 - FIRE ENGINEERING REPORTS - IF ANY
 - THE BUILDINGS ANNUAL FIRE SAFETY STATEMENT
 - THE BASE BUILDING TECHNICAL AND TENANCY FITOUT GUIDELINES
- SUBMIT SAMPLES OF ALL ITEMS WHICH HAVE A VISUAL IMPACT TO THE PROJECT FOR APPROVAL BY THE ARCHITECT AND ENGINEER PRIOR TO ORDERING AND INSTALLATION.
- ALL WORK SHALL BE CONSTRUCTED AND CERTIFIED BY SUITABLY QUALIFIED TRADES PEOPLE WITH ELECTRICAL OCCUPATIONAL LICENSES.
- ALL EQUIPMENT SHALL BE NEW UNLESS STATED OTHERWISE.
- WORKS SHALL BE CARRIED OUT IN A NEAT WORKMANLIKE MANNER TO MATCH INSTALLATION CURRENTLY INSTALLED.
- ALL WORK TIMES AND ACCESS SHALL BE CO-ORDINATED WITH THE ARCHITECT AND THE PROJECT MANAGER. FLOOR CHASING, DRILLING ETC. SHALL BE CARRIED OUT IN/OUT OF NORMAL OFFICE HOURS TO APPROVAL.
- THOROUGHLY INSPECT SITE INCLUDING ALL ELECTRICAL DISTRIBUTION BOARDS, LIGHTING, CABLING, SWITCHING AND ALL OTHER ELECTRICAL SERVICES, PRIOR TO TENDERING AND TAKE INTO ACCOUNT ANY EXISTING CONDITIONS LIKELY TO AFFECT THE EXTENT OR PERFORMANCE OF THE CONTRACT. THE TENDER PRICE WILL BE DEEMED TO BE ALL INCLUSIVE.
- ALLOW FOR ALL COSTS FOR THE TESTING OF THE INSTALLATION AND COSTS FOR INSPECTION BY THE SUPPLY AUTHORITY AS NECESSARY.
- ALLOW FOR REMOVAL & REINSTATEMENT OF CEILING TILES AND ASSOCIATED CUTOUTS TO ALLOW INSTALLATION OF ALL ELECTRICAL SERVICES.
- LAYOUTS OF ELECTRICAL SERVICES INDICATED ON DRAWINGS ARE GENERAL/INDICATIVE ONLY. CONTRACTORS SHALL REFER TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, HYDRAULICS AND STRUCTURAL DOCUMENTATION AND CEILING DETAILS FOR COORDINATION, TO AVOID CLASHES BETWEEN EXISTING/NEW SERVICES.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECT'S SPECIFICATION, DOOR SCHEDULE, FF&S SCHEDULE AND DRAWINGS FOR THE FINAL POSITION OF FIXTURES AND FITTINGS. ALL ELECTRICAL SERVICES SHALL BE SET OUT AND DIMENSIONED FROM THE ARCHITECTURAL LAYOUTS, JOINERY DRAWINGS AND DOOR SCHEDULE. REFER TO THE ARCHITECTS SCHEDULES FOR SELECTION OF FIXTURES, FITTINGS, PENDANTS AND EQUIPMENT.
- BE RESPONSIBLE FOR PROVIDING FIRE RATED PENETRATIONS FOR THEIR SERVICES PASSING THROUGH EACH FIRE RATED ELEMENT. FIRE RATED PENETRATIONS SHALL ACHIEVE THE SAME RATING AS THE BUILDING ELEMENT PENETRATED. SETOUT, MAKE, SEAL AND CERTIFY ALL REQUIRED PENETRATIONS WITH APPROVED FIRE RATED SEALANT.
- ALL EXISTING ELECTRICAL SERVICES MADE REDUNDANT FROM THESE WORKS SHALL BE REMOVED AND SEALED OFF IN ACCORDANCE WITH THESE DRAWINGS, THE CONTRACT DOCUMENTS AND TO THE SATISFACTION OF THE LOCAL AUTHORITY. ANY DELETION OF EXISTING ELECTRICAL SERVICES AND REDUNDANT EQUIPMENT SHALL BE RETURNED TO CLIENT OR SUITABLY REMOVED FROM SITE AS DIRECTED.
- BE RESPONSIBLE TO CONNECT ALL ELECTRICAL LOADS AND SUITABLY ARRANGE CIRCUITS SUCH THAT THEY ARE BALANCED ACROSS ALL THREE PHASES IN ACCORDANCE WITH AS3000.
- ALL POWER CABLES SHALL BE INSTALLED TO MAINTAIN A MINIMUM OF 50 mm FROM COMMUNICATIONS AND OTHER EXTRA LOW VOLTAGE CABLING, UNLESS PROVIDED WITH SUITABLE SEGREGATION AS PER AS 3000.
- ALL CABLING SHALL BE RUN CONCEALED WITHIN WALLS AND CEILING SPACE. ALL CABLES SHALL BE NEATLY CLIPPED TO CABLE TRAY/CATENARY, AND FOLLOW THE ROUTES OF EXISTING CABLING.
- ALL CIRCUITS SERVING THE TENANCY SHALL BE CONNECTED TO THE TENANCY DISTRIBUTION BOARD ONLY.
- SWITCHES, OUTLETS AND ACCESSORIES SHALL BE STANDARD WALL PLATE SIZE.
- EXISTING WIRING, CONDUITS, FITTINGS, EQUIPMENT, APPARATUS AND THE LIKE IF ENCOUNTERED, OBSTRUCTED, OR DAMAGED IN THE COURSE OF THE WORK SHALL BE DEALT WITH AS FOLLOWS:
 - IF TO REMAIN: REPAIR, DIVERT, RELOCATE AS REQUIRED TO ACHIEVE A EQUIVALENT INSTALLATION AS EXISTING.
 - IF TO BE ABANDONED: UNLESS SPECIFIED OTHERWISE, DISCONNECT ELECTRICALLY AND MAKE SAFE. DISMANTLE AND REMOVE IN A NEAT WORKMANLIKE MANNER, CONSISTENT WITH MINIMISING DAMAGE TO SURFACES WHICH WOULD NEED TO BE MADE GOOD.
- PROVIDE BLANK SWITCH PLATES TO COVER REDUNDANT LOCAL SWITCH MECHANISMS.
- ON COMPLETION OF THE WORKS CLEAN UP SITE AND REMOVE AND SUITABLY DISPOSE OF ALL SURPLUS MATERIALS AND DEBRIS ARISING FROM THIS CONTRACT.
- ON COMPLETION OF THE WORKS PREPARE THREE (3) HARD BOUND COPY SETS OF 'AS INSTALLED' DRAWINGS AND MAINTENANCE MANUALS INCLUDING CD COPY WITH ALL INFORMATION AND ACCURATE SERVICES POSITIONS INDICATED INCLUDING ALL FIRE COMPLIANCE CERTIFICATES AND TESTING AND COMMISSIONING RESULTS.
- PROVIDE 12 MONTHS WARRANTY, DEFECT LIABILITY AND MAINTENANCE PERIOD FOR ALL WORK COVERED BY THIS CONTRACT.

ACARA

Tower B, Level 13

280 Elizabeth Street

Surry Hills NSW 2000

ELECTRICAL SERVICES

AS BUILT

ABBREVIATIONS

1200	DENOTES MOUNTING HEIGHT ABOVE FINISH FLOOR LEVEL
15A	DENOTES 15A OUTLET
20A	DENOTES 20A OUTLET
32A	DENOTES 32A OUTLET
1PH	DENOTES SINGLE PHASE
3PH	DENOTES THREE PHASE
3.5mm	DENOTES 3.5 mm AUDIO INPUT
24HR	DENOTES 24 HOUR OPERATION
A	DENOTES ABOVE BENCH OUTLET
AD	DENOTES OUTLET POSITION FOR AUTOMATIC DOOR
AFFL	DENOTES ABOVE FINISHED FLOOR
AV	DENOTES OUTLET POSITION FOR AV. CO-ORDINATE WITH AV CONTRACTOR
B	DENOTES BELOW BENCH OUTLET
BL	DENOTES BLACK FINISH
BCW	DENOTES BOILING/CHILLED WATER OUTLET
CL	DENOTES CLEANERS OUTLET
CM	DENOTES COFFEE MACHINE OUTLET - 20A 1PH
C	DENOTES CAPTIVE OUTLET
CT	DENOTES COOK TOP OUTLET
C/W	DENOTES COMPLETE WITH
CV	DENOTES CEILING VOID OUTLET
DW	DENOTES DISHWASHER OUTLET
DR	DENOTES DRYER OUTLET
EF	DENOTES EXHAUST FAN OUTLET
ES	DENOTES ESSENTIAL SUPPLY
EX	DENOTES EXISTING OUTLET
F	DENOTES FRIDGE OUTLET
FC	DENOTES FIRE CURTAIN
FV	DENOTES FLOOR VOID OUTLET
H/L	DENOTES HIGH LEVEL
HA	DENOTES HEARING AUGMENTATION
HD	DENOTES HAND DRYER (ISOLATOR AT HIGH LEVEL)
HDM	DENOTES HIGH DEFINITION MULTI INTERFACE
HW	DENOTES HOT WATER UNIT OUTLET
IM	DENOTES ICE MACHINE OUTLET
J	DENOTES OUTLET MOUNTED ON JOINERY
MB	DENOTES MOTORISED BLINDS OUTLET
MECH	DENOTES MECHANICAL SERVICES OUTLET
MIC	DENOTES MICROPHONE CONNECTION POINT
MS	DENOTES MOTORISED SCREEN
MW	DENOTES MICROWAVE OUTLET
OY	DENOTES OVEN OUTLET
PS	DENOTES PROJECTOR OUTLET
PS	DENOTES PROJECTOR SCREEN OUTLET
RH	DENOTES RANGE HOOD OUTLET
SK	DENOTES OUTLET MOUNTED ON SKIRTING DUCT
SS	DENOTES STARTER SOCKET OUTLET
ST	DENOTES STAINLESS STEEL FLAT PLATE OUTLET
TV	DENOTES TELEVISION OUTLET
U	DENOTES INTEGRATED USB PORT
UB	DENOTES UNDER BENCH
VGA	DENOTES VIDEO GRAPHICS ARRAY
WAP	DENOTES WIRELESS ACCESS POINT
WM	DENOTES WASHING MACHINE
WP	DENOTES WEATHERPROOF OUTLET (MINIMUM IP56 RATED)

LIGHTING (BASE BUILDING) LEGEND

SYMBOL			DESCRIPTION
EXISTING TO REMAIN	EXISTING TO BE RELOCATED	NEW TO MATCH EXIST	
			FLUORESCENT RECESSED/T-BAR LUMINAIRE (1200 x 400) D = DIMMABLE BALLAST TO REPLACE EXISTING

LIGHTING (FIT-OUT) LEGEND

SYMBOL	DESCRIPTION
	SURFACE MOUNTED LINEAR LUMINAIRE REFER LIGHTING DATA SHEETS FOR DETAILS
	RECESSED CIRCULAR LUMINAIRE (150 Ø) REFER LIGHTING DATA SHEETS FOR DETAILS
	CONCEALED LINEAR LUMINAIRE REFER LIGHTING DATA SHEETS FOR DETAILS
	SUSPENDED PENDANT LUMINAIRE REFER TO ARCHITECTS F.F.S SCHEDULE
	CONCEALED PELMET LUMINAIRE - CONFIRM LENGTHS & QUANTITY REFER LIGHTING DATA SHEETS FOR DETAILS REFER TO ARCHITECTS JOINERY DRAWINGS FOR INSTALLATION
	SUSPENDED LINEAR LUMINAIRE REFER LIGHTING DATA SHEETS FOR DETAILS
	RECESSED LINEAR LUMINAIRE REFER LIGHTING DATA SHEETS FOR DETAILS

LIGHTING CONTROL LEGEND

SYMBOL	DESCRIPTION
	SWITCHLINE TO CONTROL DEVICE
	SWITCHING CONTROL ZONE REFER TO SPECIFICATION FOR DETAILS
	SWITCH 2W = TWO WAY, INT = INTERMEDIATE, D = DIMMER, Sn = SWITCH NUMBER REFER TO SPECIFICATION FOR DETAILS
	LIGHTING SWITCHPANEL X = SWITCHPANEL DESIGNATION
	LIGHTING CONTROL PANEL AC = AIR CONDITIONING CONTROL, MB = MOTORISED BLIND CONTROL REFER TO SPECIFICATION FOR DETAILS
	LIGHTING CONTROL EQUIPMENT REFER TO SPECIFICATION FOR DETAILS
	CEILING MOUNTED 360° OCCUPANCY SENSOR REFER TO SPECIFICATION FOR DETAILS
	REED SWITCH TO OPERABLE WALL TO INTERFACE TO LIGHTING CONTROL SYSTEM REFER TO SPECIFICATION FOR DETAILS

EMERGENCY LIGHTS & EXIT SIGNS LEGEND

SYMBOL			DESCRIPTION
EXISTING TO REMAIN	EXISTING TO BE RELOCATED	NEW TO MATCH EXIST	
			LED EMERGENCY LUMINAIRE MIN. CLASSIFICATION = D16, SM = SURFACE MOUNTED, TM = TRACK MOUNTED REFER TO SPECIFICATION FOR DETAILS
			LED EXIT SIGN MIN. CLASSIFICATION = E2.0, DS = DOUBLE SIDED, LB = LOW BRIGHTNESS, WP = WEATHERPROOF - REFER TO SPECIFICATION FOR DETAILS
			LED DIRECTIONAL EXIT SIGN MIN. CLASSIFICATION = E2.0, DS = DOUBLE SIDED, LB = LOW BRIGHTNESS, WP = WEATHERPROOF - REFER TO SPECIFICATION FOR DETAILS

POWER LEGEND

SYMBOL	DESCRIPTION
	DISTRIBUTION BOARD DB = ELECTRICAL SERVICES DISTRIBUTION BOARD TDB = EXISTING TENANT ELECTRICAL SERVICES DISTRIBUTION BOARD
	SINGLE 230V 10A SOCKET OUTLET (S-O) -CLIPSAI C2000 SERIES OR EQUAL HPM -CLIPSAI SATURN OR HPM IN KITCHENS AND FOOD PREPARATION AREA -CLIPSAI 56 SERIES OUTLET IN EXTERIOR LOCATIONS AND AS REQUIRED -CLIPSAI "WILCO" WICAM INDUSTRIAL TYPE IP56 RATING IN PLANTROOMS -CLIPSAI 30 SERIES USB CHARGER MECH FOR INTEGRATED USB PORTS No. = NUMBER OF OUTLETS
	DOUBLE 230V 10A SOCKET OUTLET -CLIPSAI C2000 SERIES OR EQUAL HPM -CLIPSAI SATURN OR HPM IN KITCHENS AND FOOD PREPARATION AREA -CLIPSAI 56 SERIES OUTLET IN EXTERIOR LOCATIONS AND AS REQUIRED -CLIPSAI "WILCO" WICAM INDUSTRIAL TYPE IP56 RATING IN PLANTROOMS -CLIPSAI 30 SERIES USB CHARGER MECH FOR INTEGRATED USB PORTS No. = NUMBER OF OUTLETS
	SINGLE SPECIAL SOCKET OUTLET n = TYPE OF OUTLET - REFER TO ABBREVIATIONS FOR DETAILS
	SOFT-WIRED SOCKET OUTLET FOR WORKSTATION SUPPLIED AND INSTALLED BY WORKSTATION SUPPLIER. CO-ORDINATE LOCATION OF STARTER S-O CONNECTION WITH WORKSTATION SUPPLIER. No. = NUMBER OF OUTLETS
	20A STARTER SOCKET OUTLET DEDICATED SUBCIRCUIT WIRING TO STARTER SOCKET FOR WORKSTATION POWER. SOCKET SUPPLIED BY WORKSTATION SUPPLIER, CONTRACTOR TO INSTALL X = NUMBER OF WORKSTATION PER OUTLET
	SINGLE SOCKET OUTLET WITH ROUND EARTH PIN
	SOFT-WIRED USB OUTLET FOR WORKSTATION SUPPLIED AND INSTALLED BY WORKSTATION SUPPLIER
	DEDICATED CONNECTION VIA LOCAL ISOLATOR n = RATING OF OUTLET - REFER TO ABBREVIATIONS FOR DETAILS
	PERMANENT CONNECTION TO EQUIPMENT n = RATING OF CONNECTION - REFER TO ABBREVIATIONS FOR DETAILS
	FLOOR BOX - REFER TO SPECIFICATION FOR DETAILS TYPE 1 = 4 x SINGLE S-O'S, 4 x SINGLE CAT5 RJ45 OUTLETS, 1 x AV PLATE/HDMI OUTLET TYPE 2 = 1 x 20A STARTER S-O
	SOFT WIRED GROMMET OUTLET REFER TO SPECIFICATION FOR DETAILS TYPE 1 = 1 x SINGLE S-O, 2 x USB PORTS
	POWER POLE/BLADE OR UMBILICAL SUPPLIED AND INSTALLED BY WORKSTATION SUPPLIER
	PENETRATION P1 = 40mm PENETRATION TO SLAB BELOW
	CIRCUIT DESIGNATION L = LIGHTING CIRCUIT P = POWER CIRCUIT
	CIRCUIT WIRING

MATV LEGEND

SYMBOL	DESCRIPTION
	FREE TO AIR TV SPLITTER
	PAY TV SPLITTER
	FREE TO AIR & PAY TV F-TYPE OUTLET F = DIGITAL FREE TO AIR OUTLET, P = PAY TV OUTLET

COMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
	COMMUNICATIONS FLOOR DISTRIBUTOR
	COMMUNICATIONS TEST POINT FRAME
	VOICE/DATA OUTLET WITH RJ45 COMPATIBLE FEMALE CONNECTOR No. = NUMBER OF OUTLETS, n = LOCATION - REFER TO ABBREVIATIONS FOR DETAILS
	COMMUNICATIONS CABINET - 4 POST REFER TO SPECIFICATION FOR DETAILS

SECURITY/CCTV/ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION
	SECURITY - ALARM SCREAMER SM = SURFACE MOUNTED
	SECURITY - EQUIPMENT PANEL
	SECURITY - DURESS PUSH BUTTON
	CCTV - DOME TYPE CAMERA ALL REQUIRED POWER SUPPLIES TO BE INCLUDED
	CCTV - DIGITAL VIDEO RECORDER
	ACCESS CONTROL - EQUIPMENT PANEL
	ACCESS CONTROL - PROXIMITY CARD READER
	ACCESS CONTROL - EMERGENCY BREAK GLASS DOOR RELEASE
	ACCESS CONTROL - ELECTRIC DOOR LOCK (MORTICE OR STRIKE)
	ACCESS CONTROL - MAGNETIC DOOR LOCK
	ACCESS CONTROL - REQUEST TO EXIT PUSH BUTTON
	ACCESS CONTROL - DOOR BELL
	ACCESS CONTROL - DOOR BELL SOUNDER

DRAWING INDEX

16009N-E00	LEGEND & GENERAL NOTES
16009N-E01	SINGLE LINE DIAGRAM & SCHEMATICS
16009N-E10	LEVEL 13 FLOOR PLAN - LIGHTING LAYOUT
16009N-E20	LEVEL 13 FLOOR PLAN - POWER & DATA LAYOUT

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DRAWABLE

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www.drawable.com.au Job No: 9616

Rev.	Description	Date
A	TENDER ISSUE	05/04/16
B	CONSTRUCTION ISSUE	06/05/16
AB	AS BUILT	19/07/16



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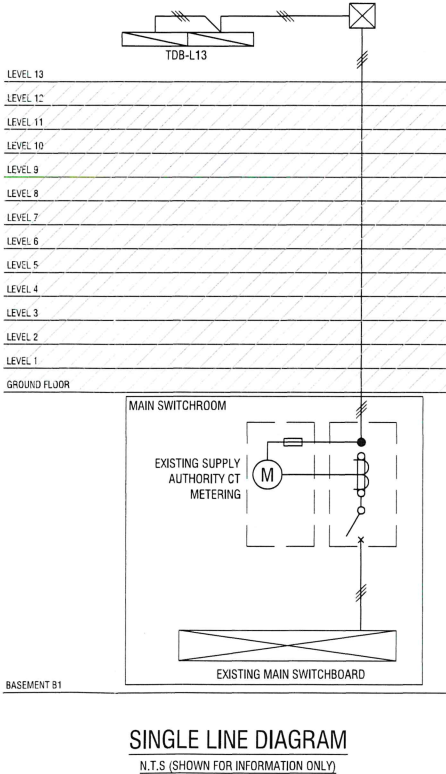
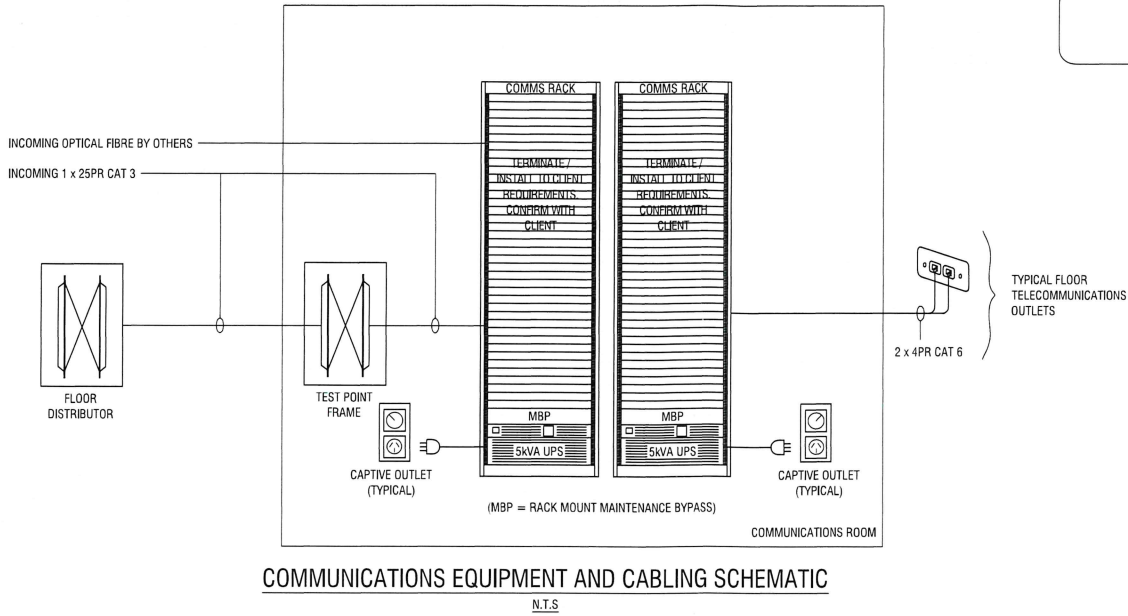
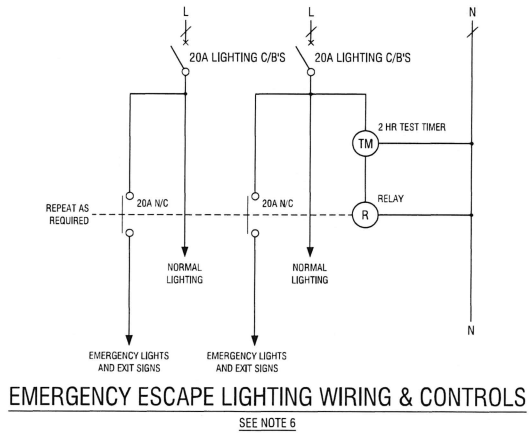
ELECTRICAL SERVICES
LEGEND, GENERAL NOTES

DRAWN	DESIGNED	CHECKED	SCALE (A4 / FULL SIZE)
AJ/FR	AJ/FR	JW	N.T.S.

DATE	DRAWING No.	REVISION
February 16	16009N - E00	AB

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DISTRIBUTION BOARD TDB-L13 SCHEDULE					
CIRC. REF.	CIRC. BREAKER	TIME SWITCH	MINIMUM CABLE SIZE	REMARKS	
RCD	1PH	3PH			
L01	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L02	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L03	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L04	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L05	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L06	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L07	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L08	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L09	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L10	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L11	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L12	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L13	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
L14	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	LIGHTING
P01	●	20A		2c 2.5mm ² Cu PVC/PVC + E	CLEANERS
P02	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P03	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P04	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P05	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P06	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P07	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P08	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P09	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P10	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P11	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P12	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P13	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WORKSTATIONS
P14	●	20A		2c 2.5mm ² Cu PVC/PVC + E	OFFICE + HOT DESKS
P15	●	20A		2c 2.5mm ² Cu PVC/PVC + E	MULTI FUNCTION DEVICE
P16	●	20A		2c 2.5mm ² Cu PVC/PVC + E	COO OFFICE + SMALL MEETING
P17	●	20A		2c 2.5mm ² Cu PVC/PVC + E	SECURE + SMALL MEETING ROOM
P18	●	20A		2c 2.5mm ² Cu PVC/PVC + E	GM ASSESSMENT + UTILITY
P19	●	20A		2c 2.5mm ² Cu PVC/PVC + E	MULTI FUNCTION DEVICE
P20	●	20A		2c 2.5mm ² Cu PVC/PVC + E	CEO OFFICE + SMALL MEETING ROOM
P21	●	20A		2c 2.5mm ² Cu PVC/PVC + E	CONFERENCE ROOM 2
P22	●	20A		2c 2.5mm ² Cu PVC/PVC + E	CONFERENCE ROOM 2
P23	●	20A		2c 2.5mm ² Cu PVC/PVC + E	RECEPTION
P24	●	20A		2c 2.5mm ² Cu PVC/PVC + E	CONFERENCE ROOM 4
P25	●	20A		2c 2.5mm ² Cu PVC/PVC + E	BOARDROOM
P26	●	20A		2c 2.5mm ² Cu PVC/PVC + E	BOARDROOM
P27	●	20A		2c 2.5mm ² Cu PVC/PVC + E	STAFF HUB
P28	●	20A		2c 2.5mm ² Cu PVC/PVC + E	SMALL MEETING + STORE
P29	●	20A		2c 2.5mm ² Cu PVC/PVC + E	COMMS ROOM
P30	●	32A		2c 6.0mm ² Cu PVC/PVC + E	COMMS RACK
P31	●	32A		2c 6.0mm ² Cu PVC/PVC + E	COMMS RACK
P32	●	32A		2c 6.0mm ² Cu PVC/PVC + E	COMMS RACK
P33	●	32A		2c 6.0mm ² Cu PVC/PVC + E	COMMS RACK
P34	●	20A		2c 2.5mm ² Cu PVC/PVC + E	ACCESS CONTROL
P35	●	20A		2c 2.5mm ² Cu PVC/PVC + E	SECURITY PANEL
P36	●	20A		2c 2.5mm ² Cu PVC/PVC + E	CREMS UNIT
P37	●	20A		2c 2.5mm ² Cu PVC/PVC + E	MICROWAVES
P38	●	20A		2c 2.5mm ² Cu PVC/PVC + E	FRIDGES
P39	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	BOILING / CHILLED WATER UNIT
P40	●	20A		2c 2.5mm ² Cu PVC/PVC + E	DISHWASHERS
P41	●	20A		2c 2.5mm ² Cu PVC/PVC + E	STAFF HUB KITCHEN
P42	●	20A		2c 2.5mm ² Cu PVC/PVC + E	FRIDGE - COUNTER
P43	●	20A	●	2c 2.5mm ² Cu PVC/PVC + E	BOILING / CHILLED WATER UNIT
P44	●	20A		2c 2.5mm ² Cu PVC/PVC + E	DISHWASHER
P45	●	20A		2c 2.5mm ² Cu PVC/PVC + E	REHEAT OVEN
P46	●	20A		2c 2.5mm ² Cu PVC/PVC + E	WAITING / MEETING BREAKOUT
P47	●	20A		2c 2.5mm ² Cu PVC/PVC + E	MECHANICAL SERVICES
P48	●	20A		2c 2.5mm ² Cu PVC/PVC + E	MECHANICAL SERVICES
P49	●	20A		2c 2.5mm ² Cu PVC/PVC + E	MECHANICAL SERVICES
P50	●	20A		2c 2.5mm ² Cu PVC/PVC + E	MECHANICAL SERVICES
P51	●	20A		2c 2.5mm ² Cu PVC/PVC + E	AV RACK



Main's Supply						
Item Description	AS3000 Load Group	QTY	Power (VA)	Diversity Factor	Diversified Power (kVA)	AS3000 Notes
Lighting	A	1277	9	100%	11.49	Based off BCA Part J 9W/m ² allowance.
Workstations	B (ii)	87	150	100%	13.05	Based off measured consumption.
GPO's (not workstations)	B (ii)	140	100	100%	14.90	1000W for first, 100W for remainder
UPS	K	2	5000	100%	10.00	100% of the largest
ZIP Unit	C	2	2400	100%	4.80	100% of the largest
Hot Water Unit	C	0	2400	75%	0.00	75% of the remainder
Mechanical PAC 13.14 Comms	C	1	3500	100%	3.50	100% of the largest
Mechanical PAC 13.1 to 13.3	C	3	2100	75%	4.73	75% of the remainder
Mechanical Exhaust Fan	D	1	90	0.07	75%	100% of the largest
Mechanical O/A Fan	D	4	40	75%	0.12	75% of the remainder
Key to AS3000 Load Groups					DIVERSITY	10%
A Lighting	E Lifts	SPARE FOR FUTURE			10%	
B (i) Socket Outlets <10A	F Fuel Dispensing	MAX DEMAND (kVA)			62.66	
B (ii) Socket Outlets >10A	G Swimming Pools	MAX DEMAND - THREE PHASE (A)			87.16	
C Appliances	H Welding Machines	MAX DEMAND (VA/m ²)			49.06	
D Motors	J 16-Play Equipment	BUILDING ALLOWANCE (VA/m ²)			UNKNOWN	
	K Other					

MAXIMUM DEMAND CALCULATION

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12/10/10 PT100



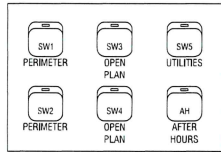
ACARA
Tower B, Level 13
280 Elizabeth Street
Surry Hills NSW 2000

ELECTRICAL SERVICES
SINGLE LINE DIAGRAM & SCHEMATICS

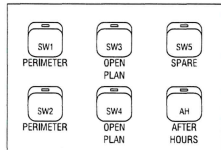
DRAWN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)
AJ	AJ	JW	N.T.S.
DATE	DRAWING No.	REVISION	
February 16	16009N - E01	AB	

LIGHTING CONTROLS SCOPE OF WORKS

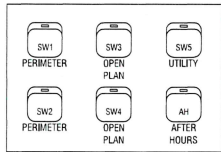
- LIGHTING CONTROLS SHALL BE DESIGNED TO THE ENTIRE TENANCY TO COMPLY WITH PART J OF THE BCA, GENERALLY AS FOLLOWS:
 - A TIME CLOCK SHALL BE INSTALLED TO AUTOMATICALLY ACTIVATE LIGHTING CIRCUITS DURING BUSINESS HOURS AND INITIALLY SET 7AM - 7PM.
 - A NUMBER OF AFTER-HOURS SWITCHES SHALL BE POSITIONED AT MAIN ENTRIES AND THOROUGHFARES THROUGHOUT THE TENANCY TO ALLOW OCCUPANTS TO OVER-RIDE THE TIME CLOCK FOR ADDITIONAL 120 MINUTE INTERVALS SHOULD IT TIME OUT AND OCCUPANTS CONTINUE TO REQUIRE LIGHTING OUT OF HOURS.
 - A NUMBER OF LUMINAIRES SHALL REMAIN ACTIVE DURING OUT OF HOURS PERIODS TO ALLOW OCCUPANTS TO SAFELY TRANSITION TO THE AFTER-HOURS SWITCHES.
 - FRONT OF HOUSE AREAS AND MEETING ROOMS SHALL NOT BE CONTROLLED VIA THE TIME CLOCK ARRANGEMENT DETAILED ABOVE TO AVOID THE TIME CLOCK SHUTTING DOWN THE LIGHTING DURING IMPORTANT FUNCTIONS AND MEETINGS - THESE SPACES SHALL BE PROVIDED WITH MOTION SENSORS IN LIEU OF TIME CLOCKS.
- IN ADDITION TO THE ABOVE, AN ADDITIONAL LAYER OF LIGHTING CONTROLS SHALL BE PROVIDED TO SPECIFIC AREAS AS FOLLOWS:
 - OPEN PLAN OFFICE AREAS - BULK SWITCH POSITIONS (INCORPORATING AFTER-HOURS SWITCH)
 - CELLULAR OFFICES - LOCAL SWITCH TO ALLOW LIGHTS TO BE TURNED OFF.
 - QUIET ROOMS - LOCAL SWITCH TO ALLOW LIGHTS TO BE TURNED OFF.
 - COMMUNICATIONS ROOM - LOCAL SWITCH ONLY, NO TIME CLOCK OR MOTION SENSOR.
 - MEETING ROOMS WITH AV - LOCAL ZONED DIMMING SWITCHES.
 - STORE ROOMS - LOCAL SWITCH TO ALLOW LIGHTS TO BE TURNED OFF.
 - BREAKOUT - LOCAL SWITCH TO ALLOW LIGHTS TO BE TURNED OFF.
 - RECEPTION - LOCAL SWITCH TO ALLOW LIGHTS TO BE TURNED OFF.
 - ALL OTHER ROOMS - LOCAL SWITCH TO ALLOW LIGHTS TO BE TURNED OFF.
- AN RS232 INTERFACE IS REQUIRED TO ALLOW THE AV SYSTEM TO CONTROL THE LIGHTING WITH THE BOARDROOM & 02 CONFERENCE ROOMS.



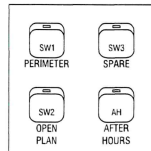
SP1



SP2

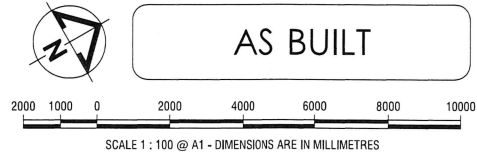
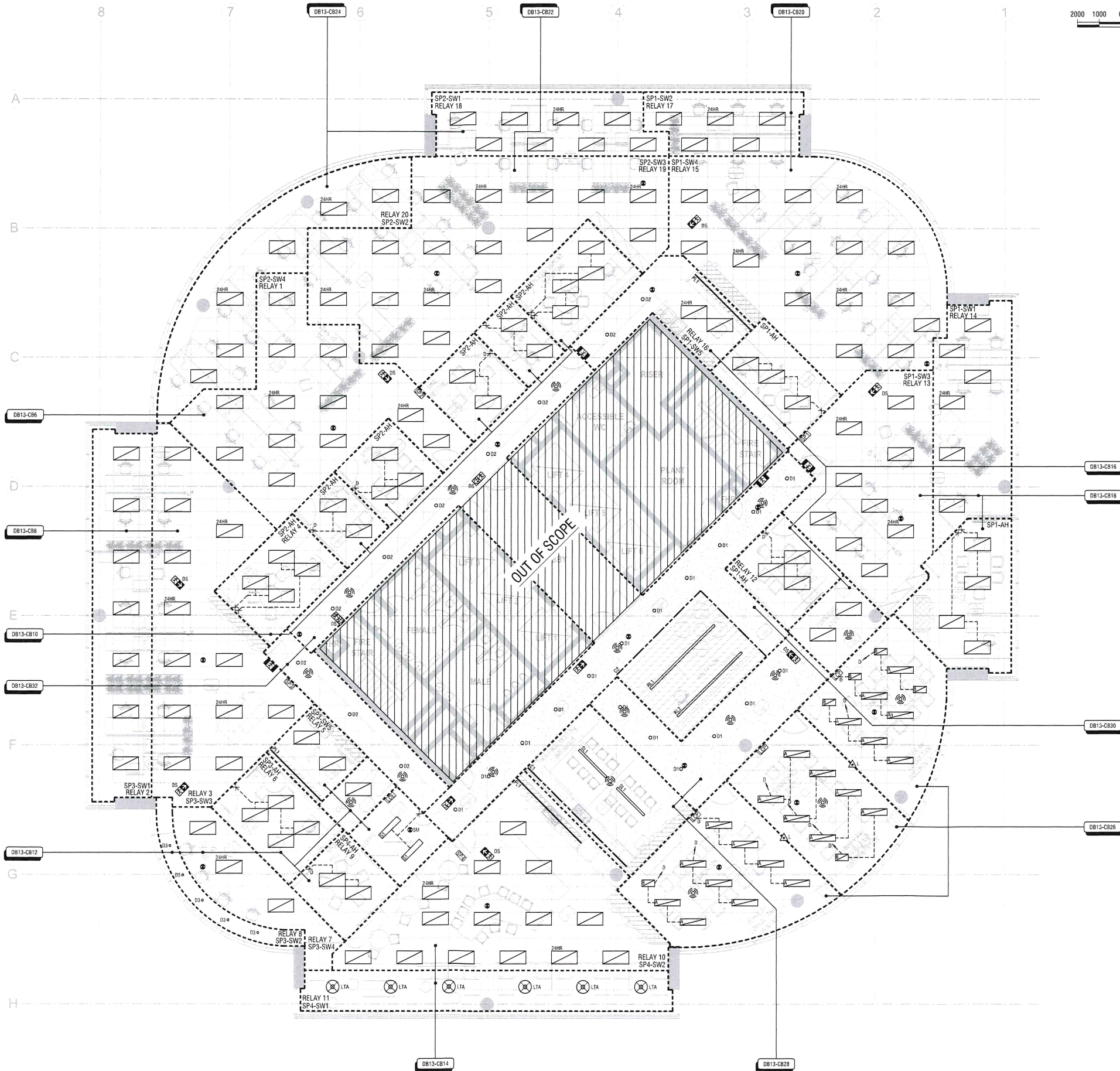


SP3



SP4

TYPICAL OPEN PLAN - SWITCHPANEL DETAILS



AS BUILT

SCALE 1 : 100 @ A1 - DIMENSIONS ARE IN MILLIMETRES

ELECTRICAL CONTRACTOR

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ELECTRICAL PROJECT SOLUTIONS

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AS BUILT'S DRAWING BY

DRAWABLE

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Rev.	Description	Date
A	TENDER ISSUE	05/04/16
B	CONSTRUCTION ISSUE	06/05/16
AB	AS BUILT	19/07/16

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info@ptid.com.au

PROJECT MANAGER

PROJECT

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DRAWING TITLE

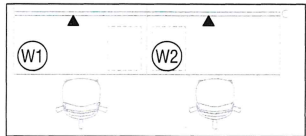
ELECTRICAL SERVICES
LEVEL 13 FLOOR PLAN
LIGHTING LAYOUT

DRAWN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)
FR	FR	JW	1 : 100 @ A1
DATE		DRAWING No.	REVISION
February 16		16009N - E10	AB

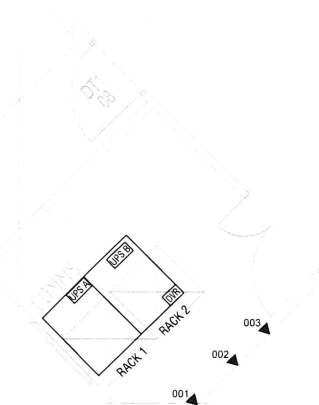


AS BUILT

SCALE 1:100 @ A1 - DIMENSIONS ARE IN MILLIMETRES



TYPICAL WORKSTATION DETAIL
Scale 1:50



COMMUNICATION ROOM DETAIL
Scale 1:50



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B	CONSTRUCTION ISSUE	06/05/16
AB	AS BUILT	19/07/16



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PROJECT
ACARA
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DRAWING TITLE
ELECTRICAL SERVICES
LEVEL 13 FLOOR PLAN
DATA LAYOUT

DRAWN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)
AJ	AJ	JW	1:100 @ A1
DATE	DRAWING NO.	REVISION	
February 16	16009N - E20	AB	

NOTES

1. THE SCOPE OF WORK INCLUDES THE DESIGN, SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING, WARRANTING AND MAINTENANCE OF THE FIRE SERVICES IN ACCORDANCE WITH THESE DRAWINGS AND THE SPECIFICATION, TOGETHER WITH ALL ASSOCIATED MINOR, INCIDENTAL AND SUNDRY WORK AS NEEDED TO SUITABLY COMPLETE THE PROJECT.
2. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE FIRE SPECIFICATION.
3. OBTAIN ALL NECESSARY APPROVALS FOR THE WORKS PRIOR TO COMMENCEMENT AND PAY ALL FEES REQUIRED. ALLOW FOR AND CO-ORDINATE STAGING OF THE WORKS, OUT OF NORMAL HOURS WORK AND POWER INTERRUPTIONS TO THE PROJECT.
4. SHOULD ANY DISCREPANCY OCCUR BETWEEN THE DRAWING, NOTES AND SPECIFICATION, ASSUME THE LARGER/GREATER. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
5. ALL DIMENSIONS NOTED ARE IN MILLIMETERS AND PIPEWORK SIZES SHOWN ARE IN NOMINAL BORE DIAMETER UNLESS NOTED OTHERWISE.
6. DESIGN, SUPPLY, INSTALL, TEST AND COMMISSION THE FIRE SERVICES TO THE PROPOSED BUILDING IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS.
- NATIONAL CONSTRUCTION CODE OF AUSTRALIA (CURRENT EDITION)
 - APPLICABLE AUSTRALIAN STANDARDS
 - LOCAL FIRE AUTHORITY
 - FIRE ENGINEERING REPORTS - IF ANY
 - THE BUILDINGS ANNUAL FIRE SAFETY STATEMENT
 - BASE BUILDING TECHNICAL AND TENANCY FITOUT GUIDELINES.
7. SUBMIT SAMPLES OF ALL ITEMS WHICH HAVE A VISUAL IMPACT TO THE PROJECT FOR APPROVAL BY THE ARCHITECT AND ENGINEER PRIOR TO ORDERING AND INSTALLATION.
8. ALL WORK SHALL BE CONSTRUCTED AND CERTIFIED BY SUITABLY QUALIFIED TRADES PEOPLE WITH FIRE PROTECTION OCCUPATIONAL LICENSES.
9. ALL EQUIPMENT SHALL BE NEW UNLESS STATED OTHERWISE.
10. WORKS SHALL BE CARRIED OUT IN A NEAT WORKMANLIKE MANNER TO MATCH THE EXISTING INSTALLATION.
11. ALL WORK TIMES, DURATION AND ACCESS SHALL BE CO-ORDINATED WITH THE ARCHITECT, BUILDING SUPERVISOR, PROJECT MANAGER AND ALL OTHER CONCERNED PARTIES. FLOOR CHASING, DRILLING ETC. SHALL BE CARRIED OUT IN 'OUT OF NORMAL OFFICE HOURS' TO APPROVAL.
12. THOROUGHLY INSPECT SITE INCLUDING LOCATING ALL EXISTING PIPEWORK, CONCEALED SPRINKLER HEADS AND CONCEALED SMOKE DETECTORS, PRIOR TO TENDERING AND TAKE INTO ACCOUNT ANY EXISTING CONDITIONS LIKELY TO AFFECT THE EXTENT OR PERFORMANCE OF THE CONTRACT. THE TENDER PRICE WILL BE DEEMED TO BE ALL INCLUSIVE.
13. ALLOW FOR ALL COSTS FOR THE TESTING OF THE INSTALLATION AND COSTS FOR INSPECTION BY LOCAL AUTHORITY AS NECESSARY.
14. ALLOW REMOVAL & REINSTATEMENT OF CEILING TILES AND ASSOCIATED CUTOUTS TO ALLOW INSTALLATION OF ALL FIRE SERVICES.
15. LAYOUTS OF DETECTORS, SPEAKERS, SPRINKLERS, PIPING ROUTES, ETC. INDICATED ON DRAWINGS ARE GENERAL/INDICATIVE ONLY. CONTRACTORS SHALL REFER TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, HYDRAULICS AND STRUCTURAL DOCUMENTATION AND CEILING DETAILS FOR COORDINATION, TO AVOID CLASHES BETWEEN EXISTING NEW SERVICES.
16. THE EXACT QUANTITIES AND LOCATIONS SHALL ACHIEVE THE REQUIREMENTS SET DOWN IN AS1668.1, AS2220.1 & 2, AS2118.1. ALL OTHER RELEVANT AUSTRALIAN STANDARDS, THE BUILDINGS ANNUAL FIRE SAFETY STATEMENT, NATIONAL CONSTRUCTION CODE AND ASSOCIATED FIRE ENGINEERING REPORTS. PROVIDE ADDITIONAL DETECTORS, SPEAKERS, SPRINKLERS ETC. AS NECESSARY TO ACHIEVE THIS OBJECTIVE WITHOUT VARIATION TO THE CONTRACT PRICE.
17. BE RESPONSIBLE FOR PROVIDING FIRE RATED PENETRATIONS FOR THEIR SERVICES PASSING THROUGH EACH FIRE RATED ELEMENT. FIRE RATED PENETRATIONS SHALL ACHIEVE THE SAME RATINGS AS THE BUILDING ELEMENT PENETRATED, SETOUT, MAKE, SEAL AND CERTIFY ALL REQUIRED PENETRATIONS WITH APPROVED FIRE RATED SEALANT.
18. ALL EXISTING FIRE SERVICES MADE REDUNDANT FROM THESE WORKS SHALL BE REMOVED AND SEALED OFF IN ACCORDANCE WITH THESE DRAWINGS, THE CONTRACT DOCUMENTS AND TO THE SATISFACTION OF THE LOCAL AUTHORITY. ANY DELETION OF EXISTING FIRE SERVICES AND REDUNDANT EQUIPMENT SHALL BE RETURNED TO CLIENT OR SUITABLY REMOVED FROM SITE AS DIRECTED.
19. ENSURE THAT ALL ANCILLARY FUNCTIONS SUCH AS AIR CONDITIONING SHUT DOWN, FLOW SWITCHES, RIP ISOLATIONS AND THE LIKE ARE ISOLATED PRIOR TO COMMENCEMENT OF WORKS AND RESET ON COMPLETION. BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT. PAY ALL ACCIDENTAL FALSE ALARM FIRE BRIGADE ATTENDANCE FEES.
20. WET FIRE SPRINKLER WORKS SHALL BE COMPLETED IN ACCORDANCE WITH AS2118.1 TO MATCH THE EXISTING HAZARD LEVEL FOR THE SPACE.
21. SPRINKLER PIPEWORK SHALL BE INSTALLED TO ADEQUATELY PROVIDE THE DESIGN DENSITIES, FLOWS, PRESSURES FOR THE FITOUT OF THE SPACE.
22. PIPEWORK SHALL BE INSTALLED WITH ADEQUATE SUPPORTS IN ACCORDANCE WITH AS2118.1. WHERE THE EXISTING SUPPORTS ARE DEEMED INADEQUATE, THEY SHALL BE REPLACED WITH A COMPLIANT PIPE SUPPORT, OR ADDITIONAL SUPPORTS PROVIDED AS NECESSARY.
23. ALL NEW SPRINKLERS SHALL BE INSTALLED CENTER TO THE CEILING TILES WHERE PRACTICAL.
24. NEW SPRINKLERS TO BE INSTALLED ARE TO MATCH EXISTING SPRINKLERS UNLESS NOTED OTHERWISE.
25. INCLUDE A SPARE ALLOWANCE TO SUPPLY AND INSTALL AND ADDITIONAL 6NO CEILING MOUNTED SPRINKLERS. INCLUDE NECESSARY RANGE AND DROPPER PIPEWORK TO FACILITATE INSTALLATION.
26. ENSURE THAT CONCEALED SPACE SPRINKLERS WITHIN CEILING VOIDS ARE RELOCATED/MODIFIED/DELETED AND ADDED TO AS NECESSARY AND IN ACCORDANCE WITH AS2118.1 WHERE VOID OBSTRUCTIONS ARE MADE VIA FULL HEIGHT WALLS, BAFFLE BLOCK, WAVE BAR, MECHANICAL DUCTWORK AND THE LIKE. ALLOW FOR AN ADDITIONAL 4 NO. NEW AND 4 NO. RELOCATED CONCEALED EXPOSED SPRINKLER HEADS.
27. ALLOW TO DRAIN & RECHARGE THE SPRINKLER SYSTEM ON A DAILY BASIS SUCH THAT THE SYSTEM IS NOT LEFT DRAINED OVERNIGHT TO COMPLY WITH BUILDING REGULATIONS. INCLUDE ALL NECESSARY BASE BUILDING FEES INCURRED TO DRAIN DOWN THE SPRINKLER SYSTEM.
28. VERIFY ANY CHANGES TO THE PIPE LAYOUT AND PIPE SIZES TO ENSURE THE CORRECT FLOW AND PRESSURE IS UTILISED FOR THE SPRINKLER COVERAGE. THE CONTRACTOR SHALL PROVIDE A PRESSURE TEST OF THE SPRINKLER SYSTEM WHERE MODIFICATIONS TO THE PIPEWORK SYSTEM HAVE BEEN UNDERTAKEN.
29. RETAIN, MODIFY, ADD AND UPGRADE THE EXISTING SMOKE DETECTION AND EWS SYSTEM AS SHOWN. ENGAGE BASE BUILDING CONTRACTOR FOR REPROGRAMMING OF THE BUILDINGS MAIN FIP/EWS PANEL AS NECESSARY. PAY ALL FEES.
30. ALL CABLING SHALL BE RUN CONCEALED WITHIN THE CEILING SPACE AND SHALL BE NEATLY CLIPPED TO CABLE TRAY/CATENARY, AND FOLLOW THE ROUTES OF EXISTING CABLING.
31. SMOKE DETECTORS SHALL NOT BE INSTALLED CLOSER THAN 400MM TO ANY SUPPLY AIR OPENING.
32. INCLUDE A SPARE ALLOWANCE TO SUPPLY AND INSTALL AN ADDITIONAL 4NO CEILING MOUNTED SMOKE DETECTORS, AND 4NO CEILING MOUNTED SPEAKERS.
33. FIRE EXTINGUISHER/FIRE BLANKET SELECTION, LOCATION AND SIGNAGE SHALL COMPLY WITH AS 2444:2001. CO-ORDINATE FINAL SETOUT AND POSITION WITH ARCHITECT AND CLIENT.
34. CO-ORDINATE FINAL SETOUT AND POSITION OF FIRE TRIPS WITH MECHANICAL AND ELECTRICAL CONTRACTOR FOR MECHANICAL BOARDS AND SECURITY PANEL.
35. ON COMPLETION OF THE WORKS CLEAN UP SITE AND REMOVE AND SUITABLY DISPOSE OF ALL SURPLUS MATERIALS AND DEBRIS ARISING FROM THIS CONTRACT.
36. ON COMPLETION OF THE WORKS FULLY TEST AND COMMISSION ALL FIRE SERVICES SYSTEMS AS PER THE REQUIREMENTS OF APPLICABLE AUSTRALIAN STANDARDS.
37. PREPARE THREE (3) HARD BOUND COPY SETS OF "AS INSTALLED" DRAWINGS AND MAINTENANCE MANUALS INCLUDING CD COPY WITH ALL INFORMATION AND ACCURATE SERVICES POSITIONS INDICATED INCLUDING ALL FIRE COMPLIANCE CERTIFICATES AND TESTING AND COMMISSIONING RESULTS.
38. PROVIDE 12 MONTHS WARRANTY, DEFECT LIABILITY AND MAINTENANCE PERIOD FOR ALL WORK COVERED BY THIS CONTRACT.

ACARA

Tower B, Level 13

280 Elizabeth Street

Surry Hills NSW 2000

FIRE SERVICES

FOR
CONSTRUCTION

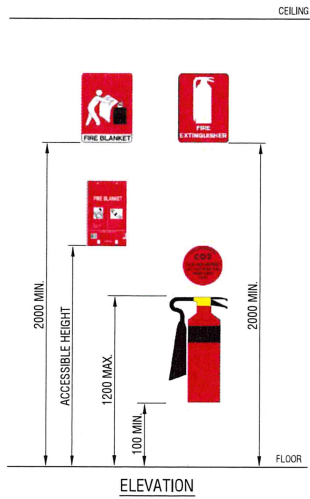
ABBREVIATIONS

B/G	BELOW GROUND
Cu	COPPER
C/W	COMPLETE WITH
C/S	CEILING SPACE
DIA	DIAMETER
e	EXISTING
F/A	FROM ABOVE
F/B	FROM BELOW
FB	FIRE BLANKET
F/C	FIRE COLLAR
FE	FIRE EXTINGUISHER
FFL	FINISHED FLOOR LEVEL
FS	FIRE SERVICES
G/L	GROUND LEVEL
GMS	GALVANISED MILD STEEL
H/L	HIGH LEVEL
L/L	LOW LEVEL
ND	NOMINAL DIAMETER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
RL	RELATIVE LEVEL
RM	RIISING MAIN
SL	SURFACE LEVEL
T/A	TO ABOVE
T/B	TO BELOW
TYP	TYPICAL
UND	UNLESS NOTED OTHERWISE
U/S	UNDER SLAB OR SOFFIT

WET FIRE PROTECTION LEGEND			
SYMBOL			DESCRIPTION
EXISTING TO REMAIN	EXISTING TO BE REMOVED	NEW WORK	
			SEMI RECESSED SPRINKLER HEAD & ESCUTCHEON PLATE (WHITE) n=SEE SYMBOL DESCRIPTION BELOW
			FLUSH MOUNTED SPRINKLER HEAD & ESCUTCHEON PLATE (WHITE) n=SEE SYMBOL DESCRIPTION BELOW
			EXPOSED SPRINKLER HEAD (WHITE) n=SEE SYMBOL DESCRIPTION BELOW
		B, C, F, G, H, W	n DENOTES SPRINKLER HEAD TYPE IN LIEU OF SYMBOL DESCRIPTION (B=BRASS, C=CHROME, F=FAST RESPONSE, G=WIRE GUARD FITTED, H=99° HIGH TEMPERATURE, W=WHITE)
			RELOCATION DIRECTION

PORTABLE FIRE PROTECTION LEGEND			
SYMBOL			DESCRIPTION
EXISTING TO REMAIN	EXISTING TO BE REMOVED	NEW WORK	
			DRY TYPE FIRE EXTINGUISHER - 2.5kg
			CO ₂ TYPE FIRE EXTINGUISHER - 3.5kg
			FIRE BLANKET - 1200mm x 1800mm

DRY FIRE PROTECTION LEGEND			
SYMBOL			DESCRIPTION
EXISTING TO REMAIN	EXISTING TO BE REMOVED	NEW WORK	
			SMOKE DETECTOR
			FIRE TRIP RELAY (MECH=MECHANICAL, SEC=SECURITY)
			EWS/OWS SPEAKER (F=FLUSH MOUNTED, S=SURFACE MOUNTED, H=HORN TYPE)



TYPICAL PORTABLE FIRE PROTECTION
MOUNTING DETAIL
N.T.S

RELEVANT STANDARDS

AUTOMATIC FIRE SPRINKLER SYSTEM	
HAZARD LEVEL:	ORDINARY
RESPONSE TIME:	STANDARD
STANDARD:	ORD 70 27.4 AS 2118.1
EMERGENCY WARNING & INTERCOMMUNICATION SYSTEM	
STANDARD:	ORD 70 55.16 AS 2220.1 & AS 2220.2
SMOKE DETECTION SYSTEM	
STANDARD:	AS1668.1

DRAWING INDEX

16009N-F00	LEGEND, GENERAL NOTES & SCHEMATIC DIAGRAMS
16009N-F01	FLOOR PLAN - FIRE SERVICES LAYOUT

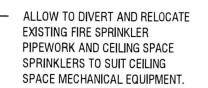
Rev.	Description	Date	CONSULTANT	CLIENT	ARCHITECT	PROJECT MANAGER	PROJECT	DRAWING TITLE	DRAWN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)
A	TENDER ISSUE	05/04/16		Aston Consulting Pty Ltd Level 8, 9 Barrack St Sydney NSW 2000 T +61 2 9098 0700 W astonconsult.com.au	 AUSTRALIAN CURRICULUM, ASSESSMENT AND REPORTING AUTHORITY			ACARA Tower B, Level 13 280 Elizabeth Street Surry Hills NSW 2000	TV	TV	MT	N.T.S.
B	CONSTRUCTION ISSUE	06/05/16										
									DATE	DRAWING No.	REVISION	
									February 16	16009N - F00		B

1. REFER TO DRAWING F00 FOR LEGEND & GENERAL NOTES.
2. UNDERTAKE ALL WORKS IN ACCORDANCE WITH THE FIRE SPECIFICATION.



2000 1000 0 2000 4000 6000 8000 10000

SCALE 1 : 100 @ A1 - DIMENSIONS ARE IN MILLIMETRES



ALLOW TO DIVERT AND RELOCATE
EXISTING FIRE SPRINKLER
PIPEWORK AND CEILING SPACE
SPRINKLERS TO SUIT CEILING
SPACE MECHANICAL EQUIPMENT.

DESIGN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)
TV	TV	MT	1:100 @ A1
DATE		DRAWING NO.	REVISION
February 16		16009N - 501	C

ACARA











Tower B, Level 13
280 Elizabeth Street
Surry Hills NSW 2000






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





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












ABBREVIATIONS






















AAV	AIR ADMITTANCE VALVE
AB	ABOVE BENCH
AFFL	ABOVE FINISHED FLOOR LEVEL
AP	ACCESS PANEL
AS	AUSTRALIAN STANDARDS
B	BASIN
BCWU	BOILING/CHILLED WATER UNIT
B/G	BELOW GROUND
CM	COFFEE MACHINE
CO	CLEAR OUT
CSK	CLEANERS SINK
Cu	COPPER
CW	COLD WATER
C/P	CONTROL PANEL
C/W	COMPLETE WITH
C/S	CEILING SPACE
DCV	DOUBLE CHECK VALVE
DIA	DIAMETER
DW	DISH WASHER
e	EXISTING
F/A	FROM ABOVE
F/B	FROM BELOW
FFL	FINISHED FLOOR LEVEL
FR	REFRIGERATOR
FWG	FLOOR WASTE GULLY
G/L	GROUND LEVEL
H/L	HIGH LEVEL
HTVB	HOSE TAP VACUUM BREAKER
HW	HOT WATER
HWU	HOT WATER UNIT
ID	INTERNAL DIAMETER
IL	INVERT LEVEL
IM	ICE MACHINE
IO	INSPECTION OPENING
IV	ISOLATION VALVE
kPa	KILOPASCAL
L/L	LOW LEVEL
ND	NOMINAL DIAMETER
NRV	NON RETURN VALVE
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PVC	POLYVINYLCHLORIDE
RL	RELATIVE LEVEL
RM	RISING MAIN
RV	RELIEF VENT PIPE
S	SEWER
SAN	SANITARY
SHR	SHOWER
SK	SINK
SL	SURFACE LEVEL
SRM	SEWER RISING MAIN
SS	SOIL STACK
S/S	STAINLESS STEEL
TTD	TRAPPED TUNDISH
T/A	TO ABOVE
T/B	TO BELOW
TYP	TYPICAL
UB	UNDER BENCH
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
U/S	UNDER SLAB OR SOFFIT
V	VENT
VP	VENT PIPE
WC	WATER CLOSET
WW	WARM WATER

WATER SERVICES LEGEND	
SYMBOL	DESCRIPTION
 HWU	HOT WATER UNIT
	BOILING / CHILLED WATER UNIT
	3 IN 1 UNIT: BOILING WATER UNIT WITH HOT / COLD WATER SUPPLY TO MIXER
	4 IN 1 UNIT: BOILING / CHILLED WATER UNIT WITH HOT / COLD WATER SUPPLY TO MIXER
	ISOLATION VALVE
	THERMOSTATIC MIXING VALVE (TMV)
	SOLENOID VALVE
	HOSE TAP (HT)
	WATER OUTLET - SINGLE a=DENOTES SERVICE (B=BASIN, WC=WATER CLOSET, WM=WASHING MACHINE, SK=SINK ETC) REFER TO ABBREVIATIONS FOR OTHER FIXTURES
	WATER OUTLET - DOUBLE a=DENOTES SERVICE (B=BASIN, WC=WATER CLOSET, WM=WASHING MACHINE, SK=SINK ETC) REFER TO ABBREVIATIONS FOR OTHER FIXTURES

SEWER & VENT LEGEND	
SYMBOL	DESCRIPTION
	SULLAGE PUMP OUT UNIT
	AIR ADMITTANCE VALVE
	TRAPPED TUNDISH a=DENOTES EQUIPMENT (AC=AIR CON, HWU=HOT WATER UNIT)
	FLOOR WASTE
	FIXTURE DRAINAGE OUTLET a=DENOTES SERVICE (B=BASIN, WC=WATER CLOSET, WM=WASHING MACHINE, SK=SINK ETC) REFER TO ABBREVIATIONS FOR OTHER FIXTURES

WET FIRE PROTECTION LEGEND			DESCRIPTION
EXISTING TO REMAIN	EXISTING TO BE REMOVED	NEW OR RELOCATED	
			FIRE HOSE REEL
			FIRE HYDRANT
			RELOCATION DIRECTION

PIPEWORK LEGEND	
SYMBOL	DESCRIPTION
	PIPE RISER
	PIPE DROPPER
	CAPPED OFF SERVICE
	RISE & OFFSET ABOVE SLAB
	WATER OUTLET POINT
	PIPE CONTINUATION
	UNION
	SERVICE RISER IDENTIFICATION SYMBOL a=DENOTES SERVICE (CW, HW, HWR, WW, NPCW, NPHW, NPHWR, RO, VP, RV, TW, GW, GAS, etc) n=DENOTES PIPE SIZE
	SERVICE DROPPER IDENTIFICATION SYMBOL a=DENOTES SERVICE (CW, HW, HWR, WW, NPCW, NPHW, NPHWR, RO, VP, RV, TW, GW, GAS, etc) n=DENOTES PIPE SIZE
	NEW CONNECTION
	FLOW DIRECTION
	WALL / BEAM PENETRATION
	TEE

LINETYPE LEGEND	
SYMBOL	DESCRIPTION
	NEW COLD WATER PIPE
	NEW HOT WATER PIPE
	NEW HOT WATER RETURN PIPE
	NEW WARM WATER PIPE
	NEW SANITARY PLUMBING PIPE
	NEW VENT PIPE
	NEW SEWER RISING MAIN PIPE
	FIRE SERVICES PIPE
	FIRE HYDRANT PIPE
	FIRE HOSE REEL PIPE
	EXISTING COLD WATER PIPE
	EXISTING HOT WATER PIPE
	EXISTING HOT WATER RETURN PIPE
	EXISTING WARM WATER PIPE
	EXISTING SANITARY PLUMBING PIPE
	EXISTING VENT PIPE
	EXISTING SEWER RISING MAIN PIPE
	EXISTING FIRE SERVICES PIPE
	EXISTING FIRE HYDRANT PIPE
	EXISTING FIRE HOSE REEL PIPE
	EXISTING SERVICE TO BECOME REDUNDANT

DRAWING INDEX


16009N-H00	LEGEND & DRAWING LIST
16009N-H01	LEVEL 13 FLOOR PLAN - WATER SERVICES & SANITARY WASTE LAYOUT

DRAWN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)
BRC	PJ	PJ	N.T.S.
DATE		DRAWING No.	REVISION
JULY 2016		16009N - H00	AB

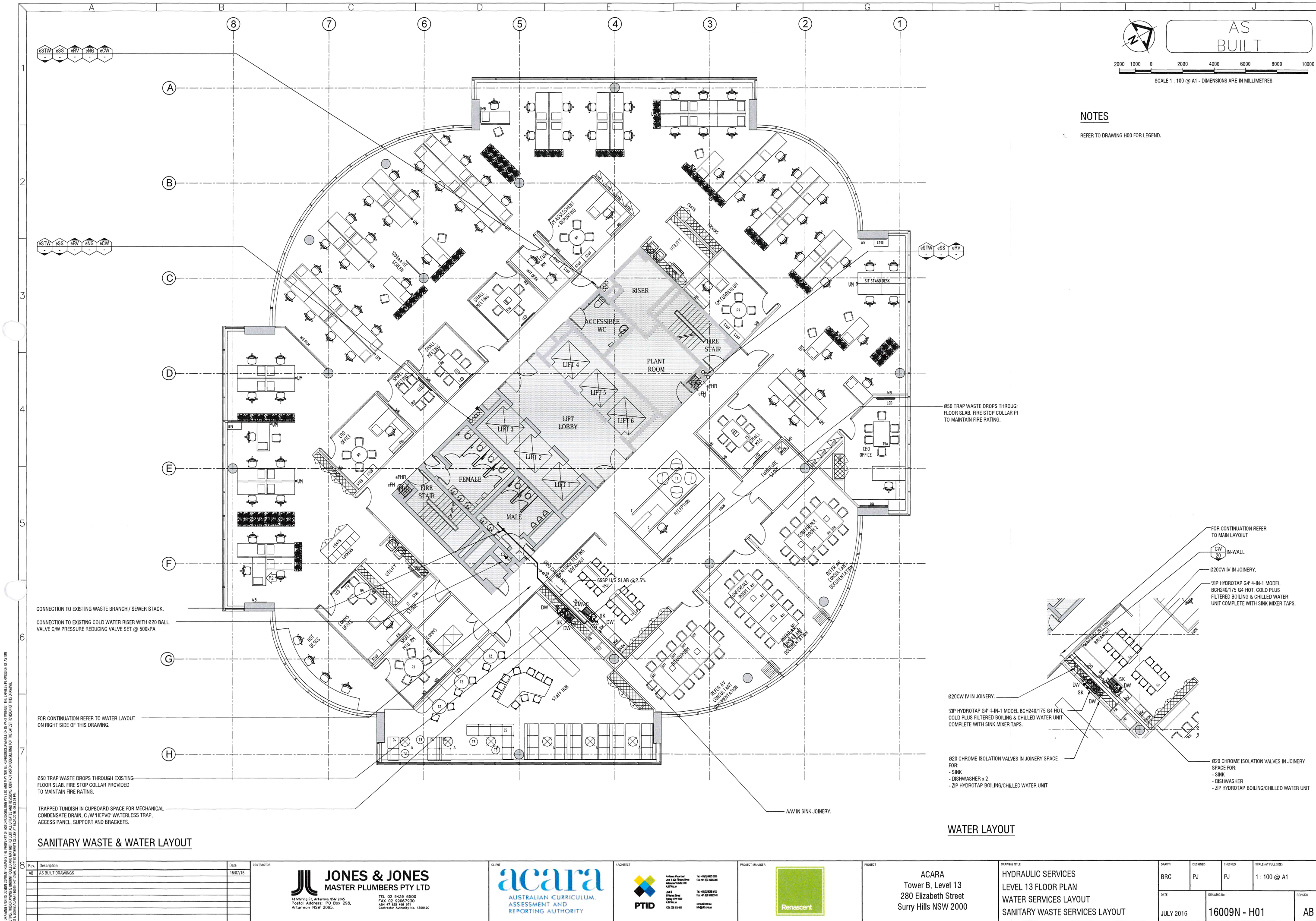
Rev.	Description	Date
AB	AS BUILT DRAWINGS	18/07/16


 JONES & JONES MASTER PLUMBERS PTY LTD	
41 Whiting St, Artarmon NSW 2065 Postal Address: PO Box 208, Artarmon NSW 2065.	
TEL 02 9439 6500 FAX 02 95057930 MHR 02 950 488 971 Contractor Authority No. 130012C	

 acara AUSTRALIAN CURRICULUM ASSESSMENT AND REPORTING AUTHORITY	
 PTID Professional Training Institute of Design and Construction 4/4-6/6 Sturt Street Sydney NSW 2000 AUSTRALIA TEL 02 921 821 800 FAX 02 921 821 801 www.ptid.com.au	

 Renascent	
PROJECT ACARA Tower B, Level 13 280 Elizabeth Street Surry Hills NSW 2000	

DRAWING TITLE HYDRAULIC SERVICES LEGEND & DRAWING LIST	
PROJECT MANAGER	





AS
BUILT

2000 1000 0 2000 4000 6000 8000 10000

SCALE 1 : 100 @ A1 - DIMENSIONS ARE IN MILLIMETRES

NOTES

1. REFER TO DRAWING H00 FOR LEGEND.

CONNECTION TO EXISTING WASTE BRANCH / SEWER STACK.

CONNECTION TO EXISTING COLD WATER RISER WITH Ø20 BALL VALVE C/W PRESSURE REDUCING VALVE SET @ 500KPA

FOR CONTINUATION REFER TO WATER LAYOUT ON RIGHT SIDE OF THIS DRAWING.

Ø50 TRAP WASTE DROPS THROUGH EXISTING FLOOR SLAB. FIRE STOP COLLAR PROVIDED TO MAINTAIN FIRE RATING.

TRAPPED TUNDISH IN CUPBOARD SPACE FOR MECHANICAL CONDENSATE DRAIN. C/W 'HEPVO' WATERLESS TRAP, ACCESS PANEL, SUPPORT AND BRACKETS.

Ø50 TRAP WASTE DROPS THROUGH FLOOR SLAB. FIRE STOP COLLAR PI TO MAINTAIN FIRE RATING.

FOR CONTINUATION REFER TO MAIN LAYOUT

Ø20CW IN-WALL

Ø20CW IV IN JOINERY.

2IP HYDROTAP G4" 4-IN-1 MODEL BCH240/175 G4 HOT, COLD PLUS FILTERED BOILING & CHILLED WATER UNIT COMPLETE WITH SINK MIXER TAPS.

Ø20CW IV IN JOINERY.

2IP HYDROTAP G4" 4-IN-1 MODEL BCH240/175 G4 HOT, COLD PLUS FILTERED BOILING & CHILLED WATER UNIT COMPLETE WITH SINK MIXER TAPS.

Ø20 CHROME ISOLATION VALVES IN JOINERY SPACE FOR:

- SINK
- DISHWASHER x 2
- ZIP HYDROTAP BOILING/CHILLED WATER UNIT





Ø20 CHROME ISOLATION VALVES IN JOINERY SPACE FOR:

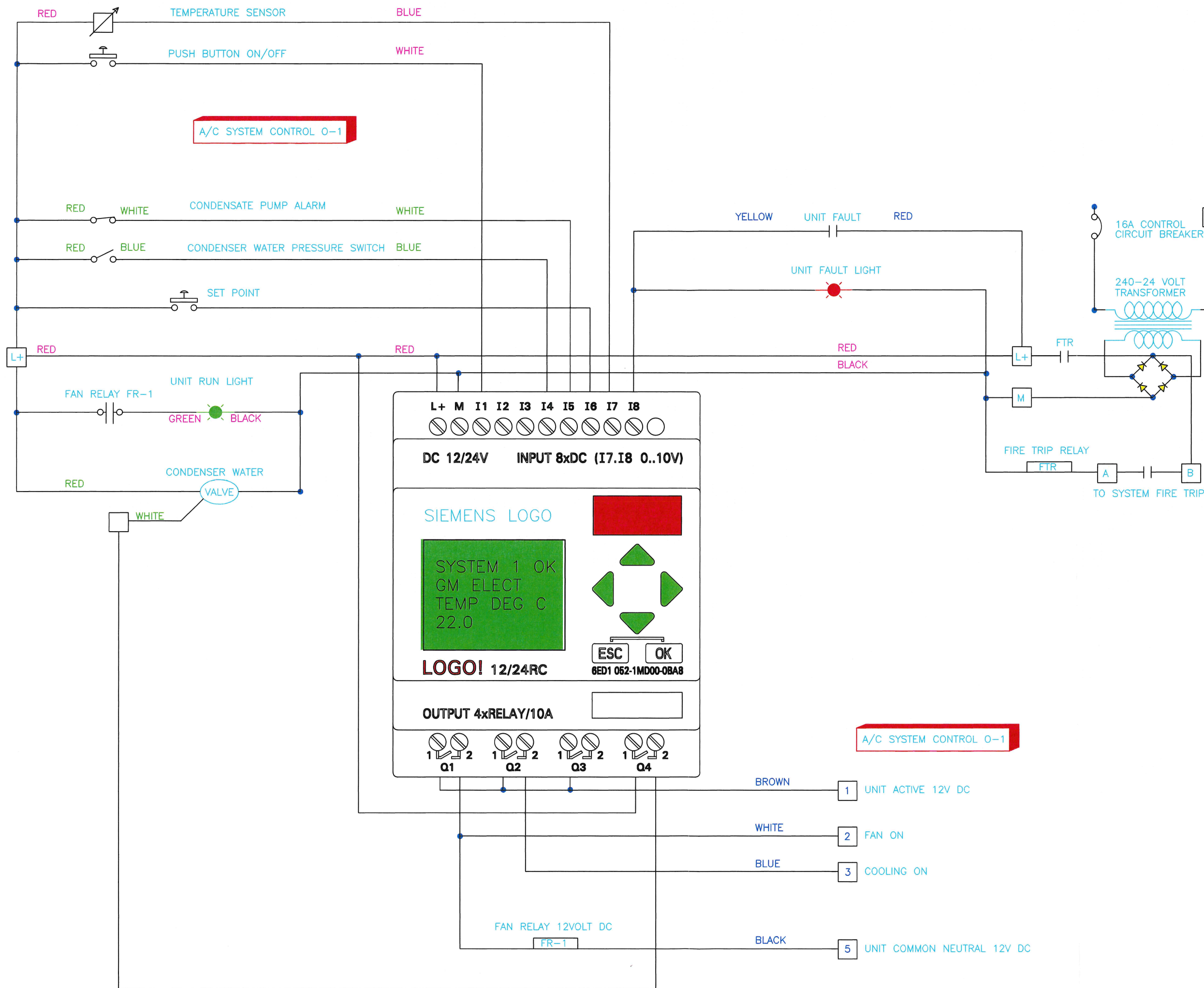
- SINK
- DISHWASHER
- ZIP HYDROTAP BOILING/CHILLED WATER UNIT

WATER LAYOUT

SANITARY WASTE & WATER LAYOUT

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Rev.	Description	Date	CONTRACTOR	CLIENT	ARCHITECT	PROJECT MANAGER	PROJECT	DRAWING TITLE	DRAWN	DESIGNED	CHECKED	SCALE (AT FULL SIZE)
AB	AS BUILT DRAWINGS	18/07/16	<div><div>JONES & JONES MASTER PLUMBERS PTY LTD 41 Whiting St, Arlman NSW 2065 Postal Address: PO Box 298, Arlman NSW 2065. TEL: 02 9439 6500 FAX: 02 99067930 ABN 47 835 408 871 Contractor Authority No. 1300132</div></div>	<div><div>acara AUSTRALIAN CURRICULUM, ASSESSMENT AND REPORTING AUTHORITY</div></div>	<div><div>PTID Professional Trade Inspection & Certification 14/15 Bond Street Sydney NSW 2000 AUSTRALIA TEL: 02 925 81148 FAX: 02 925 81149 www.ptid.com.au</div></div>	<div><div>Renaissance</div></div>	ACARA Tower B, Level 13 280 Elizabeth Street Surry Hills NSW 2000	HYDRAULIC SERVICES LEVEL 13 FLOOR PLAN WATER SERVICES LAYOUT SANITARY WASTE SERVICES LAYOUT	BRC	PJ	PJ	1 : 100 @ A1
									DATE	DRAWING No.		REVISION
									JULY 2016	16009N - H01		AB



GREEN 4 CORE = CONDENSER WATER
PRESSURE SWITCH
CONDENSATE PUMP
ALARM

MAJENTA 7 CORE = CABLES TO WALL
BLUE 7 CORE = CABLES TO UNIT

REV.	DATE	AMENDMENTS	INIT.
1	07.07.16	AS BUILT	GM
0	07.07.16	ORIGINAL	GM

**GARRY MAURER
ELECTRICAL P/L**

Unit 330-36 cabbage tree road
Bayview 2104
Phone mobile 0414 474363

**HVAC
PROJECT PARTNERS**

COMMERCIAL | RETAIL | HERITAGE
P: 02 9438 3514 F: 02 9438 3671

PROJECT
**ACARA
L13 280 ELIZABETH
STREET SYDNEY**

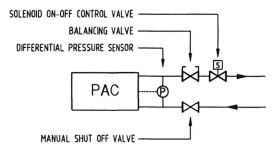
TITLE
**TYPICAL 4 SYSTEM
A/C MECHANICAL
CONTROL DRAWING**

SUBJECT	
MECHANICAL SERVICES	
SCALE NTS	DATE 07-07-16
DRAWN G MAURER	CKD. PAN TAN
DWG No. HPP16011 E1	AMEND. 0



NOTES

1. BOARDROOM AC CONTROLLED VIA WALL MOUNTED ON/OFF PUSH BUTTON WITH ADJUSTABLE RUN-ON TIMER.
2. PAC UNITS ARE FITTED WITH MOTORISED ISOLATION VALVE INTERLOCKED WITH A/C UNIT OPERATION.
3. PAC UNITS ARE FITTED WITH DP SENSORS (AUTO RESET) ON CONDENSER WATER TO SENSE LOSS OF CONDENSER WATER FLOW AND SHUT UNIT DOWN.



TYPICAL WATER COOLED PAC UNIT PIPING SCHEMATIC
N.T.S.

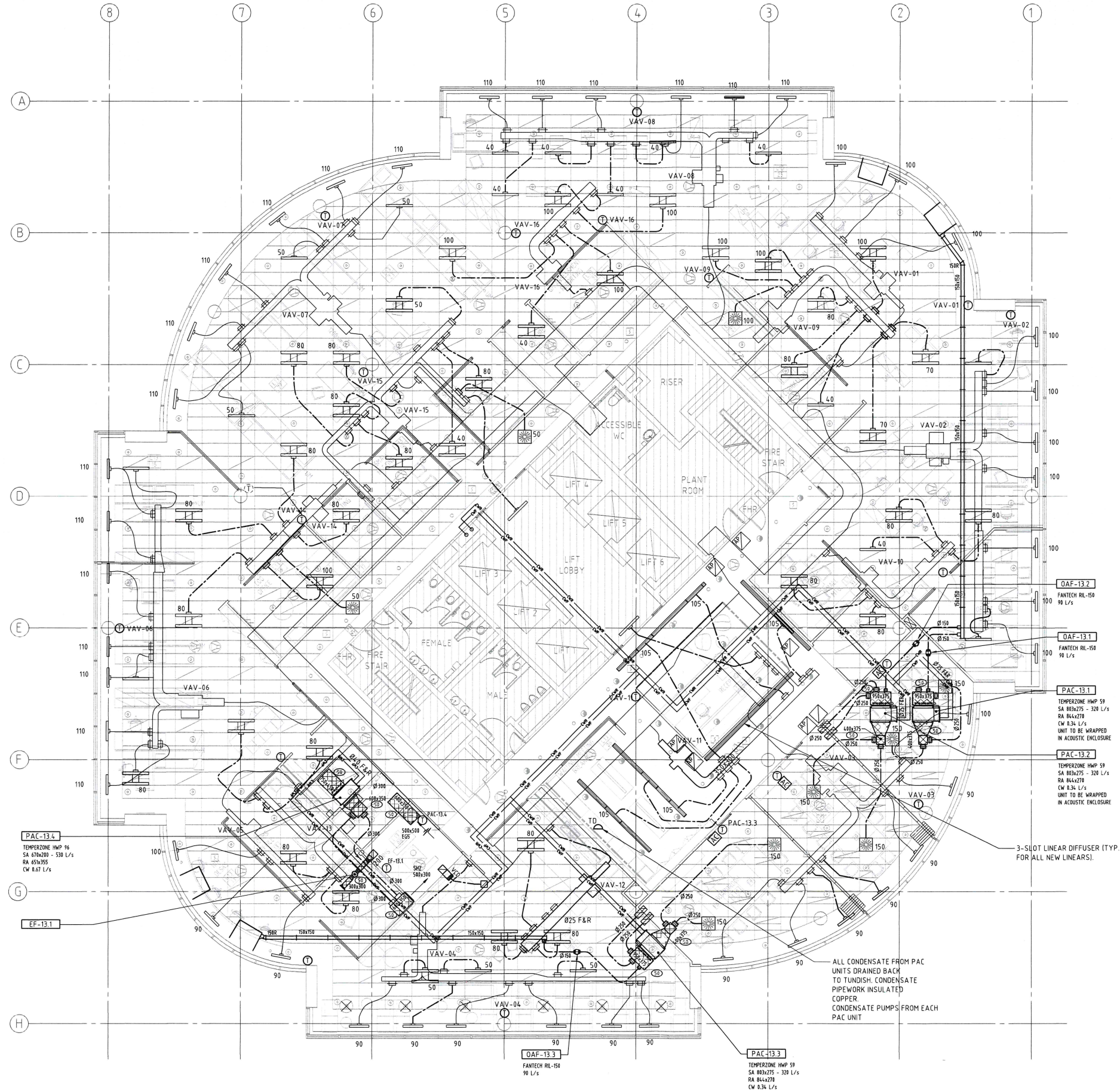
AI	AS INSTALLED	JUNE 2016
REV	DESCRIPTION	DATE

ACARA
Tower B, Level 13 - 280 Elizabeth Street
Surry Hills NSW 2000

 **HVAC Project Partners**
HVAC Project Partners
PO Box 567 St Leonards NSW 1590
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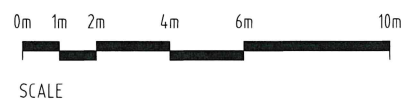
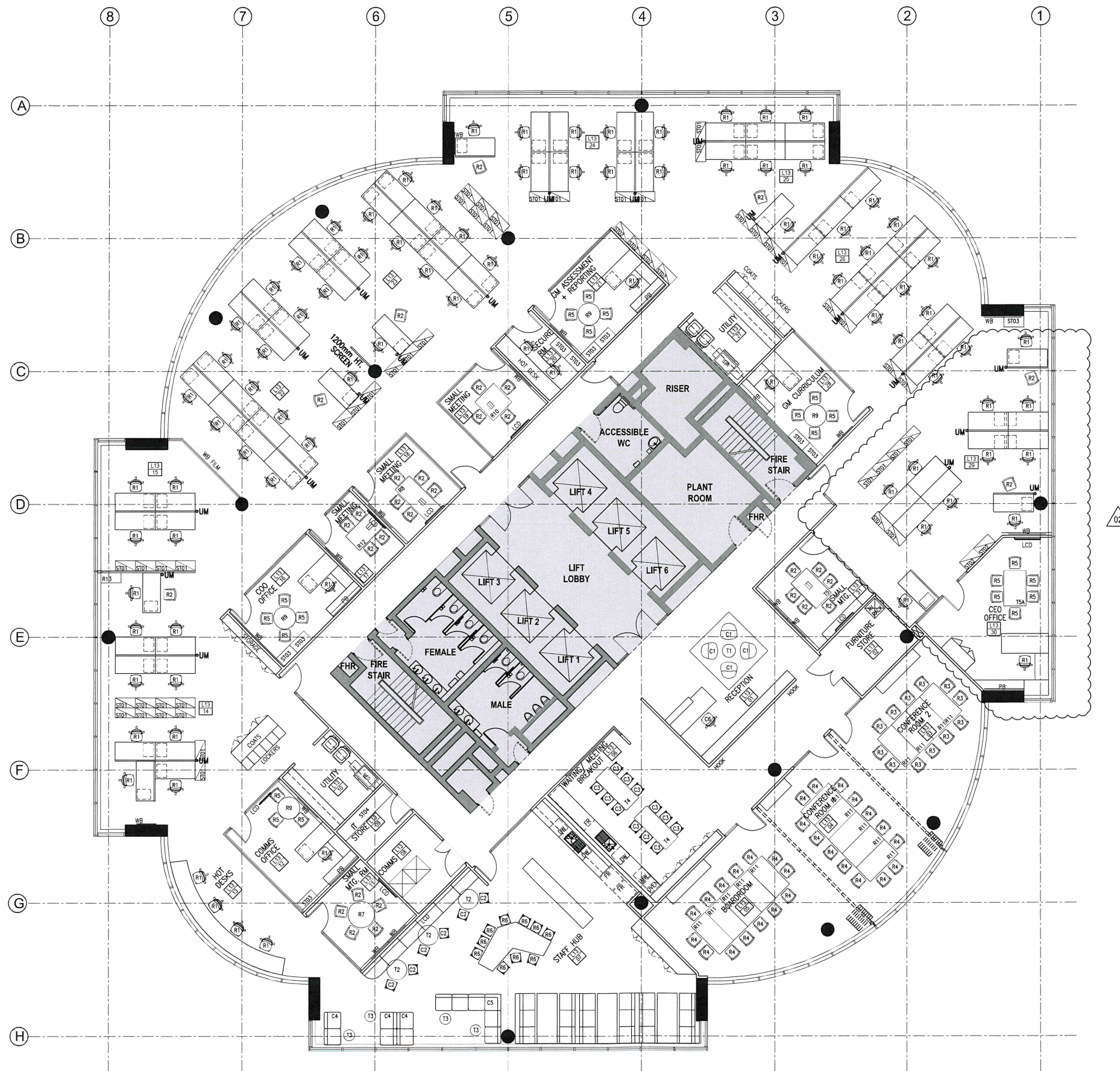
MECHANICAL SERVICES
LEVEL 13 FLOOR PLAN
MECHANICAL SERVICES LAYOUT

AS INSTALLED					
SCALE: 1:100	DATE: 05/2016	DRAWN: AMK1629	CHECKED: PHT	APPROVED: PHT	
HPP 16009		M1		AI	



LOOSE FURNITURE NOTES
REFER TO 700 SERIES DRAWINGS, SPECIFICATIONS &
SCHEDULES FOR FURTHER DETAILS

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION &
OTHER DIRECTIONS OR INSTRUCTIONS FROM THE ARCHITECT OR SERVICES
CONSULTANTS



ISS REVISION	DRN	CHK/APP	DATE	ISS REVISION	DRN	CHK/APP	DATE
- PRELIMINARY	AM	CD	04.03.16				
A FOR TENDER	AM	CD	31.03.16				
01 FOR CONSTRUCTION	AM	CD	05.05.16				
02 FOR CONSTRUCTION	AM	CD	12.05.16				



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PTID APPROVALS
REASON FOR ISSUE
FOR CONSTRUCTION

PROJECT
**ACARA
TOWER B, LEVEL 13, 280 ELIZABETH ST.**

TITLE
LOOSE FURNITURE PLAN



SCALE
1 : 100 @A1

DRAWING No.

PROJECT No.
51-5102

REV.
02

NOTES

1. THE SCOPE OF WORK INCLUDES THE SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING, WARRANTING AND MAINTENANCE OF THE MECHANICAL SERVICES IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATION, TOGETHER WITH ALL ASSOCIATED MINOR, INCIDENTAL AND SUNDRY WORK AS NEEDED TO SUITABLY COMPLETE THE PROJECT.
2. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE MECHANICAL SPECIFICATION.
3. OBTAIN ALL NECESSARY APPROVALS FOR THE WORKS PRIOR TO COMMENCEMENT AND PAY ALL FEES REQUIRED. ALLOW FOR AND CO-ORDINATE STAGING OF THE WORKS, OUT OF NORMAL HOURS WORK AND POWER INTERRUPTIONS TO THE PROJECT.
4. IF ANY DISCREPANCY OCCURS BETWEEN THE DRAWING, NOTES AND SPECIFICATION, ASSUME THE LARGER/GREATER. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
5. SUPPLY, INSTALL, TEST AND COMMISSION THE MECHANICAL SERVICES TO THE PROPOSED BUILDING IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND AUTHORITY / UTILITY REQUIREMENTS:
 - NATIONAL CONSTRUCTION CODE OF AUSTRALIA (CURRENT EDITION) - FORMALLY BCA
 - AS1668.1 & 2 AND OTHER APPLICABLE AUSTRALIAN STANDARDS
 - BUILDING FITOUT GUIDE
6. THOROUGHLY INSPECT THE SITE INCLUDING LOCATING ALL EXISTING AC UNITS, DUCTWORK, PIPEWORK, STRUCTURAL BEAMS & AVAILABLE CEILING SPACE, PRIOR TO TENDERING AND TAKE INTO ACCOUNT ANY EXISTING CONDITIONS LIKELY TO AFFECT THE EXTENT OR PERFORMANCE OF THE CONTRACT. THE TENDER PRICE WILL BE DEEMED TO BE ALL INCLUSIVE.
7. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH BASE BUILDING TECHNICAL AND TENANCY FITOUT GUIDELINES.
8. SETOUT, MAKE, SEAL AND CERTIFY ALL REQUIRED PENETRATIONS WITH APPROVED FIRE RATED SEALANT.
9. ALL DIMENSIONS NOTED ARE IN MILLIMETERS AND DUCTWORK SIZES SHOWN ARE AIRWAY SIZES UNLESS NOTED OTHERWISE.
10. ALL EQUIPMENT SHALL BE NEW UNLESS STATED OTHERWISE.
11. WORKS SHALL BE CARRIED OUT IN A NEAT WORKMANLIKE MANNER TO MATCH INSTALLATION CURRENTLY INSTALLED.
12. ALL WORK TIMES AND ACCESS SHALL BE CO-ORDINATED WITH THE ARCHITECT AND THE PROJECT MANAGER. FLOOR CHASING, DRILLING ETC. SHALL BE CARRIED OUT IN 'OUT OF NORMAL OFFICE' HOURS TO APPROVAL.
13. SUBMIT SAMPLES OF ALL ITEMS WHICH HAVE A VISUAL IMPACT TO THE PROJECT FOR APPROVAL BY THE ARCHITECT AND ENGINEER PRIOR TO ORDERING AND INSTALLATION. SUBMIT TECHNICAL DATA OF ALL MECHANICAL EQUIPMENT PROPOSED FOR APPROVAL BY THE ENGINEER PRIOR TO ORDERING AND INSTALLATION.
14. REDUNDANT EQUIPMENT SHALL BE RETURNED TO CLIENT OR SUITABLY REMOVED FROM SITE AS DIRECTED. REMOVE REDUNDANT DUCTWORK, AC UNITS, PIPEWORK AND CABLING CAUSED BY ALTERATIONS TO FITOUT AREAS.
15. ALL CABLING SHALL BE RUN CONCEALED WITHIN THE CEILING SPACE AND SHALL BE NEATLY CLIPPED TO CABLE TRAY/CATENARY, AND FOLLOW THE ROUTES OF EXISTING CABLING.
16. LAYOUTS OF AC UNITS, DUCTWORK, PIPEWORK ETC. INDICATED ON DRAWINGS ARE GENERAL/INDICATIVE ONLY. FOR DETAILS REFER TO THE SITE. CHECK ALL DIMENSIONS & LOCATIONS ON SITE PRIOR TO MANUFACTURE.
17. COORDINATE NEW DUCTWORK & PIPEWORK WITH EXISTING DUCTWORK & STRUCTURE. ALLOW FOR SET UPS / SET DOWNS & TRANSITIONS WHERE REQUIRED
18. PROVIDE AN AIRTIGHT SEAL WHERE DUCTWORK OR PIPEWORK PENETRATES PLANT ROOM WALL, PARTITIONS & THE LIKE.
19. ALL AIR CONDITIONING SUPPLY & RETURN AIR DUCTWORK SHALL BE THERMALLY LAGGED WITH INSULATION THICKNESS AS NOTED IN DUCTWORK INSULATION TABLE BELOW, UNLESS OTHERWISE NOTED.
20. MAINTAIN ACCESS TO EXISTING SERVICES. DUCTWORK & PIPEWORK TO LOCATED AWAY FROM BUILDING CORE AS FAR AS PRACTICAL.
21. REBALANCE SUPPLY AIR QUANTITIES TO THAT SHOWN ON THE DRAWING, WHERE NO FLOW RATES GIVEN FOR EXISTING SERVICES REBALANCE TO ORIGINAL DESIGN VALUES AS DETAILED IN THE EXISTING AS INSTALLED DRAWINGS.
22. ON COMPLETION OF THE WORKS PREPARE FOUR (4) HARD BOUND COPY SETS OF 'AS INSTALLED' DRAWINGS AND MAINTENANCE MANUALS INCLUDING CD COPY WITH ALL INFORMATION AND ACCURATE SERVICES POSITIONS INDICATED INCLUDING ALL MECHANICAL COMPLIANCE CERTIFICATES AND TESTING AND COMMISSIONING RESULTS. PROVIDE 12 MONTHS WARRANTY, DEFECT LIABILITY AND MAINTENANCE PERIOD FOR ALL WORK COVERED BY THIS CONTRACT.
- 23.
- 24.

ACARA

Tower B, Level 13

280 Elizabeth Street

Surry Hills NSW 2000

MECHANICAL SERVICES

FOR
CONSTRUCTION

ABBREVIATIONS

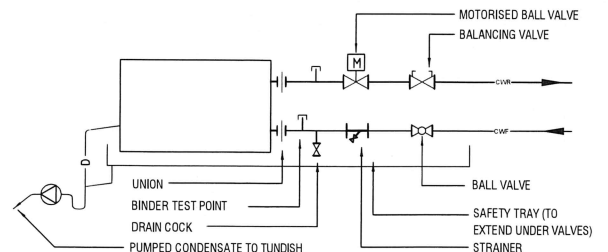
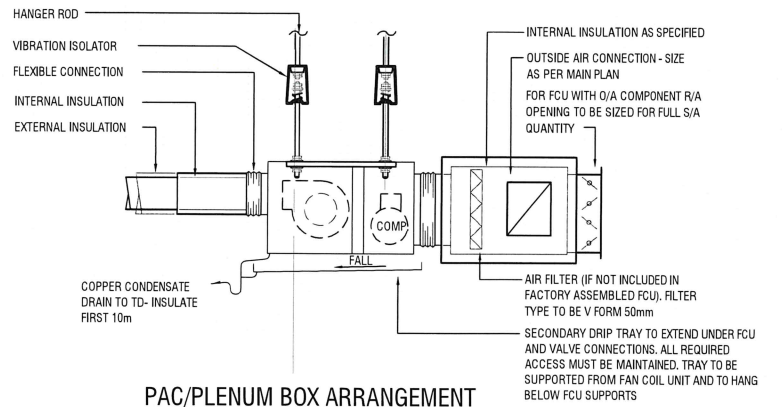
AF	DENOTES AIR FILTER
AHU	DENOTES AIR HANDLING UNIT
AP	DENOTES ACCESS PANEL
CD	DENOTES CONDENSER
CP	DENOTES CONDENSATE PUMP
CRAC	DENOTES COMPUTER ROOM AIR COND. UNIT
CU	DENOTES CONDENSING UNIT
CW	DENOTES CONDENSER WATER
CW F&R	DENOTES CONDENSER WATER FLOW & RETURN
D	DENOTES INSULATED COPPER DRAIN
E/A	DENOTES EXHAUST AIR
EAF	DENOTES EXHAUST AIR FAN
EDH	DENOTES ELECTRIC DUCT HEATER
F	DENOTES FLOW
FCU	DENOTES FAN COIL UNIT
FD	DENOTES FIRE DAMPER
L	DENOTES LOUVER
MCC	DENOTES MOTOR CONTROL CENTRE
MCD	DENOTES
NRD	DENOTES NON RETURN DAMPER
O/A	DENOTES OUTSIDE AIR
ORD	DENOTES OPPOSED BLADE DAMPER
PAC	DENOTES PACKAGED AIR CONDITIONING UNIT
R/A	DENOTES RETURN AIR
S/A	DENOTES SUPPLY AIR
SD	DENOTES SET DOWN
SU	DENOTES SET UP
TAD	DENOTES TRANSFER AIR DUCT
T.A.	DENOTES TO ABOVE
T.B.	DENOTES TO BELOW
TEF	DENOTES TOILET EXHAUST FAN
TD	DENOTES TUNDISH
U.N.O.	DENOTES UNLESS NOTED OTHERWISE
VAV	DENOTES VARIABLE AIR VOLUME
VCD	DENOTES VOLUME CONTROL DAMPER
W	DENOTES WATER

MECHANICAL SERVICES LEGEND	
SYMBOL	DESCRIPTION
	FLEXIBLE CONNECTION
	PANEL FILTERS
	NEW INLINE FAN AS SCHEDULED
	NEW ACCESS PANEL ALL ACCESS PANEL LOCATIONS TO BE CO-ORDINATED ON SITE BETWEEN BUILDER AND MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
	NEW TUNDISH PROVIDED BY HYDRAULIC TRADE UNLESS NOTED OTHERWISE
	MOTORISED VOLUME CONTROL DAMPER
	VOLUME CONTROL DAMPER
	FIRE DAMPER
	NEW MECHANICAL SERVICES SWITCHBOARD
	AC THERMOSTAT - EXISTING TO REMAIN
	AC THERMOSTAT - TO BE RELOCATED OR DEMOLISHED RELOCATE OR DEMOLISH AS APPROPRIATE
	AC THERMOSTAT - NEW OR RELOCATED FROM ELSEWHERE
	AC CONTROLLER
	AC OCCUPANCY SENSOR

MECHANICAL SERVICES LEGEND	
SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER - EXISTING TO REMAIN BALANCE TO NOMINATED FLOWS. LINEWEIGHT TYPICAL FOR ALL GRILLE TYPES
	SUPPLY AIR DIFFUSER - TO BE RELOCATED OR DEMOLISHED RELOCATE OR DEMOLISH AS REQUIRED. LINEWEIGHT TYPICAL FOR ALL GRILLE TYPES
	SUPPLY AIR DIFFUSER - NEW OR RELOCATED FROM ELSEWHERE PROMOTE INSULATED CUSHION HEAD. BALANCE TO NOMINATED FLOWS.
	SUPPLY AIR DIFFUSER - 3 WAY BLOW NEW TO BE PROVIDED WITH INSULATED CUSHION HEAD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS.
	SUPPLY AIR DIFFUSER - 2 WAY BLOW NEW TO BE PROVIDED WITH INSULATED CUSHION HEAD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS.
	CEILING MOUNTED SWIRL DIFFUSER NEW TO BE PROVIDED WITH INSULATED CUSHION HEAD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS.
	CEILING MOUNTED SWIRL DIFFUSER NEW TO BE PROVIDED WITH INSULATED CUSHION HEAD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS.
	SUPPLY AIR THERMOFORMER NEW TO BE PROVIDED WITH INSULATED CUSHION HEAD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS.
	CEILING MOUNTED RETURN/EXHAUST AIR GRILLE
	DUCT MOUNTED DIFFUSER NEW TO BE PROVIDED WITH OBD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS
	WALL MOUNTED DIFFUSER NEW TO BE PROVIDED WITH OBD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS
	DOUBLE SIDED LIGHT AIR TROFFER NEW TO BE PROVIDED WITH INSULATED CUSHION HEAD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS.
	SINGLE SIDED LIGHT AIR TROFFER NEW TO BE PROVIDED WITH INSULATED CUSHION HEAD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS.
	LINEAR SLOT DIFFUSER NEW TO BE PROVIDED WITH INSULATED CUSHION HEAD. BALANCE EXISTING AND NEW TO NOMINATED FLOWS.

MECHANICAL SERVICES LEGEND	
SYMBOL	DESCRIPTION
	RECTANGULAR DUCTWORK - EXISTING TO REMAIN A=SIDE VIEWED, B=SIDE NOT VIEWED
	RECTANGULAR DUCTWORK - TO BE DEMOLISHED OR RELOCATED
	RECTANGULAR DUCTWORK - NEW NEW SUPPLY & RETURN AIR DUCTWORK EXTERNALLY INSULATED WHERE REQUIRED TO MEET MINIMUM REQUIRED R-VALUE (SEE TABLE) A=SIDE VIEWED, B=SIDE NOT VIEWED
	INTERNALLY INSULATED METAL DUCTWORK DUCTWORK TO BE INSULATED WITH 38mm THICK INSULATION OR AS REQUIRED TO MEET MINIMUM REQUIRED R-VALUES (WHICH EVER IS GREATER)
	INTERNALLY INSULATED METAL DUCTWORK DUCTWORK TO BE INSULATED WITH 50mm THICK INSULATION OR AS REQUIRED TO MEET MINIMUM REQUIRED R-VALUES (WHICH EVER IS GREATER)
	BLANK OFF SPIGOT EXISTING SPIGOT TO BE BLANKED OFF AND SEALED AIR TIGHT
	ACOUSTIC FLEXIBLE DUCTWORK - NEW SIZES AND INSULATION REQUIREMENTS AS SCHEDULED. MAXIMUM LENGTH TO BE 5m. WHERE LENGTHS EXCEED 5m PROVIDE SOLID METAL JOINER. FLEXIBLE DUCTWORK - EXISTING TO REMAIN
	DUCT SPIGOT WITH BUTTERFLY DAMPER
	TRANSFER AIR DUCT WITH 50mm INTERNAL INSULATION
	Y-PIECE CONNECTOR
	DOOR GRILLE SIZE AS SCHEDULED
	DOOR UNDERCUT

MECHANICAL SERVICES LEGEND	
SYMBOL	DESCRIPTION
	CONDENSER WATER - FLOW SIZE AS NOMINATED
	CONDENSER WATER - RETURN SIZE AS NOMINATED
	ISOLATION VALVE
	CONDENSATE DRAIN



FLEXIBLE DUCT SCHEDULE	
AIR QUANTITY (L/s)	FLEX DIAMETER (mm)
0 - 62	150
63 - 110	200
111 - 172	250
173 - 247	300
248 - 337	350
338 - 440	400
NOTE: ALL NEW FLEXIBLE DUCTWORK TO BE ACOUSTIC RATED	

DOOR GRILLE SCHEDULE	
AIR QUANTITY (L/s)	GRILLE NECK (mm x mm)
0 - 110	600 x 150
111 - 150	600 x 200
151 - 190	600 x 250
191 - 300	600 x 400
301 - 450	600 x 600

DIFFUSERS SCHEDULE	
AIR QUANTITY (L/s)	GRILLE NECK (mm x mm)
0 - 62	150 x 150
63 - 125	225 x 225
126 - 225	300 x 300
226 - 300	375 x 375
301 - 405	450 x 450
406 - 500	525 x 525
BLANK OFF FACTORS: 1 WAY BLANKED = 1.33 2 WAY BLANKED = 2 3 WAY BLANKED = 4	

EGGCRATE GRILLE SCHEDULE	
AIR QUANTITY (L/s)	GRILLE NECK (mm x mm)
0 - 80	200 x 200
81 - 180	225 x 300
181 - 320	400 x 400
321 - 500	500 x 500
501 - 605	550 x 550
606 - 720	600 x 600

DUCTWORK INSULATION	
MINIMUM REQUIRED R-VALUES & NOMINAL MINIMUM THICKNESS	
DUCTWORK WITHIN CONDITIONED SPACE	R1.2 (50mm)
DUCTWORK EXPOSED TO THE SUN	R3.0 (135mm)
DUCTWORK IN ALL OTHER LOCATIONS	R2.0 (90mm)

PAC UNIT SCHEDULE													
PAC. No.	Area Served	Status	Total Cap. (kW)	Sens. Cap. (kW)	Heating Cap. (kW)	Supply Air (L/s)	Return Air (L/s)	Outside Air (L/s)	Ent. DB Temp. (deg C)	Ent. WB Temp. (deg C)	Ext. Static (Pa)	Elec. Supply (V/Ph/Hz)	Running Amps (Total)
PAC-13.1	14P Boardroom	New	5.5	4.1	Elec	300	210	90	25.5	18.2	100	240/1/50	9.4
PAC-13.2	14P Conf. Room	New	5.5	4.1	Elec	300	210	90	25.5	18.2	100	240/1/50	9.4
PAC-13.3	12P Conf. Room	New	5.5	4.1	Elec	300	210	90	25.5	18.2	100	240/1/50	9.4
PAC-13.4	Comms Room	New	9.4	7.0	Nil	500	500	0	23	17	100	240/1/50	16

FAN SCHEDULE										
Fan. No.	Area Served	Air Flow (L/s)	Ext. Static (Pa)	Max. Speed (RPS)	Min. Impeller Dia. (mm)	Min. Motor Size (kW)	Elec. Supply (V/Ph/Hz)	Speed Control	Max. SPL (dBA @ 3m)	Base Selection (Fantech)
OAF-13.1	PAC-13.1	90	100	33	150	0.04	240/1/50	Y	33	TD-500/150 SIL
OAF-13.2	PAC-13.2	90	100	33	150	0.04	240/1/50	Y	33	TD-500/150 SIL
OAF-13.3	PAC-13.3	90	100	33	150	0.04	240/1/50	Y	33	TD-500/150 SIL
EF-13.1	Comms	200	70	42	200	0.09	240/1/50	Y	40	TD-800/200 SIL

DRAWING INDEX

16009N-M00	LEGEND, GENERAL NOTES & SCHEMATIC DIAGRAMS
16009N-M01	LEVEL 13 FLOOR PLAN - MECHANICAL SERVICES LAYOUT

DRAWN	DESIGNED	CHECKED	SCALE (AT WALL SIZE)
JM	JM	MM	N.T.S.
DATE		DRAWING No.	
February 16		16009N - M00	
REVISION			
			B



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PROJECT MANAGER



PROJECT

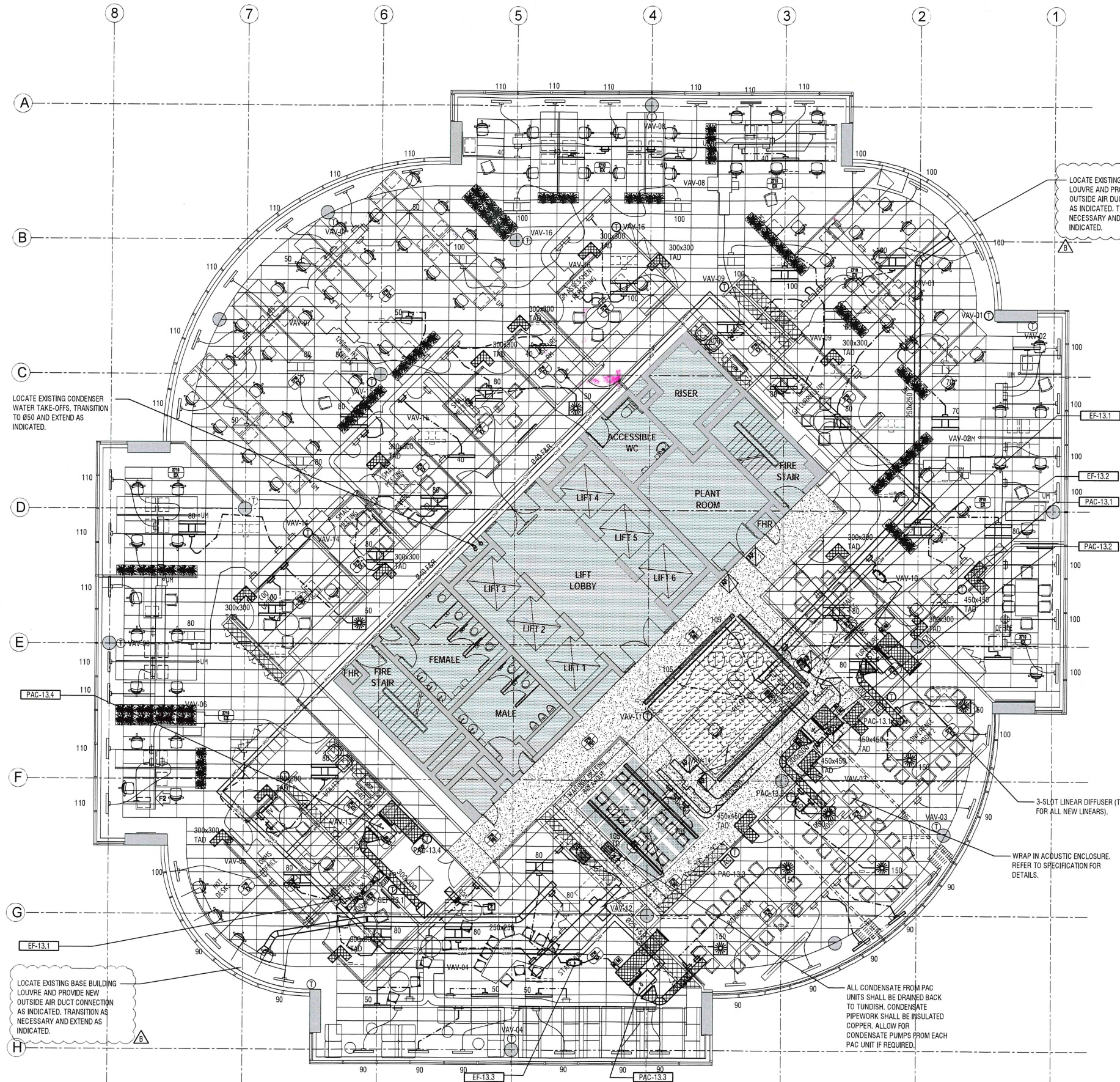
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Surry Hills NSW 2000

DRAWING TITLE

MECHANICAL SERVICES
LEGEND & GENERAL NOTES
SCHEMATIC DIAGRAMS

NOTES

1. REFER TO DRAWING M00 FOR LEGEND & GENERAL NOTES.
2. UNDERTAKE ALL WORKS IN ACCORDANCE WITH MECHANICAL SPECIFICATION.
3. ALL PAC UNITS OTHER THAN COMMS AC SHALL BE SHUT DOWN DURING FIRE TRIP. FIRE CONTRACTOR SHALL PROVIDE FIRE CABLING. MECH CONTRACTOR SHALL PROVIDE RELAY AND FINAL CIRCUITRY AND CONNECTION.
4. ALLOW FOR 4m OF FLEXIBLE DUCT FOR ALL NEW AND RELOCATED AIR-BOOTS AND DIFFUSERS.
5. ALLOW FOR 12No. NEW Ø250 SPIGOTS IN ADDITION TO WHAT IS SHOWN.
6. ALL CENTRE ZONE THERMOSTATS SHALL BE RELOCATED TO POSITIONS SHOWN FROM WITHIN CEILING SPACE.
7. ALLOW FOR PR-MEASUREMENT THROUGH ALL BASE BUILDING AIR-BOOTS.
8. ALLOW FOR STAIR PRESSURE TEST DURING FIRE MODE BEFORE AND AFTER CONSTRUCTION.
9. ENGAGE BASE BUILDING BMS CONTRACTOR FOR ALL BASE BUILDING BMS WORKS INCLUDING THERMOSTAT RELOCATIONS, AIR FLOW AND PRESSURE TESTS AND GRAPHICAL UPDATES.
10. ALLOW FOR AN ADDITIONAL 12m OF 200x200 INSULATED DUCTWORK IN ADDITION TO WHAT IS SHOWN.
11. ALLOW AN ADDITIONAL 2No. TEMPERATURE SENSOR RELOCATES IN ADDITION TO WHAT IS SHOWN.

FOR
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SCALE 1 : 100 @ A1 - DIMENSIONS ARE IN MILLIMETRES

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Rev.	Description	Date	CONSULTANT
A	TENDER ISSUE	05/04/16	
B	CONSTRUCTION ISSUE	06/05/16	
C	CONSTRUCTION ISSUE	13/05/16	



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PROJECT MANAGER



PROJECT

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DRAWING TITLE

MECHANICAL SERVICES
LEVEL 13 FLOOR PLAN
MECHANICAL SERVICES LAYOUT

DRAWN

JM

DESIGNED

JM

CHECKED

MM

SCALE (AT FULL SIZE)

1 : 100 @ A1

DATE

February 16

DRAWING NO.

16009N - M01

REVISION

C