















































FIRE SERVICES

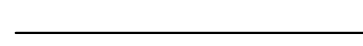
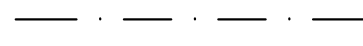

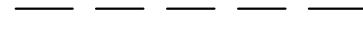

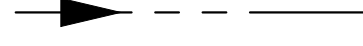


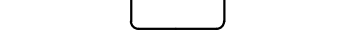
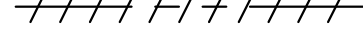
ALARM

	BMS INTERFACE BOARD
	COLOUR MONITOR & KEYBOARD
	CONTROL MODULE
	DATA TRANSMISSION MODEM
	FIRE ALARM BELL (INDOOR)
	FIRE ALARM BELL (OUTDOOR/WEATHERPROOF)
	FLOOR MIMIC PANEL C/W LED INDICATION IN COLOUR PERSPEX
	MAIN ALARM PANEL C/W BATTERY COMPARTMENT
	SUB ALARM PANEL C/W BATTERY COMPARTMENT
	MANUAL CALL POINT/ BREAKGLASS (INDOOR)
	MANUAL CALL POINT/ BREAKGLASS (OUTDOOR/WEATHERPROOF)
	MASTER MIMIC PANEL C/W LED INDICATIONS
	MONITORING MODULE
	PRINTER (ALARM/SYSTEM STATUS)
	ZONE FLOOR CHART
	TRIPLE IR FLAME DETECTOR




























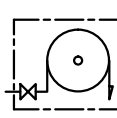
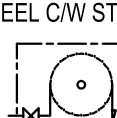














DETECTOR

	HEAT DETECTOR (FIXED TYPE) EXPOSED	NEW		
	HEAT DETECTOR (RATE OF RISE TEMP) EXPOSED	NEW		
	HEAT DETECTOR (FIXED TYPE) CONCEALED	NEW		
	HEAT DETECTOR (RATE OF RISE TEMP) CONCEALED	NEW		
	SMOKE DETECTOR (COMBINATION OF OPTICAL/ HEAT) EXPOSED	NEW		
	SMOKE DETECTOR (COMBINATION OF OPTICAL/ HEAT) CONCEALED	NEW		
	SMOKE DETECTOR (COMBINATION OF OPTICAL/ HEAT) RAISED FLOOR	NEW		
	SMOKE DETECTOR (COMBINATION OF OPTICAL/ HEAT) IN B1 CONCOURSE VOID	NEW		
	SMOKE DETECTOR (COMBINATION OF OPTICAL/ HEAT) IN MEP TRENCH NORTH AND SOUTH	NEW		
	SMOKE DETECTOR (COMBINATION OF OPTICAL/ HEAT) IN CPO TRENCH NORTH AND SOUTH	NEW		
	SMOKE DETECTOR (EXPLOSION PROOF) EXPOSED AT FALSE CEILING			
	SMOKE DETECTOR (EXPLOSION PROOF) RAISED FLOOR/CONCEALED IN CEILING VOID			
	SMOKE DETECTOR (IONISATION) EXPOSED AT FALSE CEILING			
	SMOKE DETECTOR (IONISATION) RAISED FLOOR/CONCEALED IN CEILING VOID			
	SMOKE DETECTOR (OPTICAL) EXPOSED AT FALSE CEILING			
	SMOKE DETECTOR (OPTICAL) RAISED FLOOR/CONCEALED IN CEILING VOID			







PIPEWORK LINETYPE NOTATION

	PIPEWORK AT HIGH LEVEL
	PIPEWORK AT LOW LEVEL
	PIPEWORK WITHIN CEILING VOID
	PIPEWORK BELOW FLOOR LEVEL
	SCHEMATIC DRAWING PIPE SIZE NOTATION LAYOUT DRAWING PIPE SIZE NOTATION
	FLUID FLOW DIRECTION , PIPE FALL
	PIPEWORK TO BELOW
	PIPEWORK TO ABOVE
	PIPEWORK EXPANSION LOOP COMPLETE WITH PIPE GUIDES
	PIPEWORK TO BE REMOVED (LINETYPE AS ABOVE TO INDICATE PIPEWORK LOCATION/LEVEL)














MISCELLANEOUS

BREECHING INLET		DRY RISER SYSTEM	WET RISER/ SPRINKLER
2 WAY BREECHING INLET			
3 WAY BREECHING INLET			
4 WAY BREECHING INLET			
2 WAY BREECHING INLET (SCH)			
3 WAY BREECHING INLET (SCH)			
4 WAY BREECHING INLET (SCH)			
FIRE EXTINGUISHER C/W CABINET			
	2.5KG ABC DRY POWER		
	4.5KG ABC DRY POWER		
	9KG ABC DRY POWER		
	2.5KG CO2 FIRE EXTINGUISHER		
	4.5KG CO2 FIRE EXTINGUISHER		
	9KG CO2 FIRE EXTINGUISHER		
HOSE REEL			
	HOSE REEL  		
	HOSE REEL C/W STAINLESS STEEL CABINET  		
HOSE REEL (SCH)   			
HOSE REEL C/W STAINLESS STEEL CABINET (SCH)   			
	STANDBY FIREHOSE		
LANDING VALVE			
	DRY RISER LANDING VALVE		 
	DRY RISER LANDING VALVE (SCH)		 
	WET RISER LANDING VALVE		 
	WET RISER LANDING VALVE (SCH)		 
















PIPE

	DRY RISER PIPE
	WET RISER PIPE
	DRAIN PIPE
	HOSE REEL PIPE
	FIRE HYDRANT PIPE
	SPRINKLER PIPE

VALVE

	BUTTERFLY VALVE
	CHECK VALVE
	FLEXIBLE CONNECTION
	FLOW SWITCH
	GATE VALVE
	MONITORING VALVE
	MOTORISED VALVE
	PRESSURE GAUGE C/W STOP COCK
	PRESSURE SWITCH C/W STOP COCK
	SLUICE VALVE
	SOLENOID VALVE
	SUBSIDIARY VALVE (MONITORED STOP VALVE)
	"Y" TYPE STRAINER













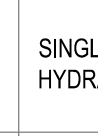













SPRINKLER

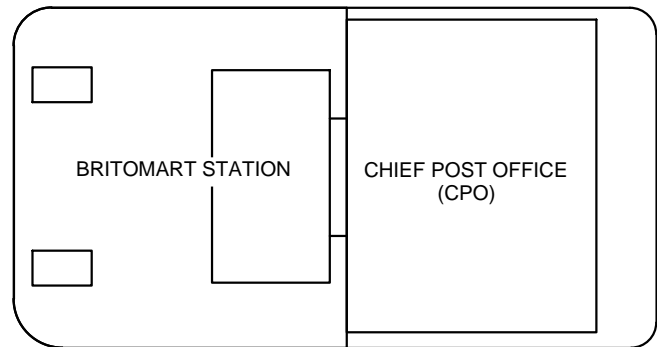
	CONCEALED SPRINKLER	NEW	
	CONCEALED SPRINKLER (SCH)	NEW	
	EXPOSED SPRINKLER		
	EXPOSED SPRINKLER (SCH)		
	CUT-OFF SPRINKLER		
	DRY PENDANT SPRINKLER		
	DRY SPRINKLER (CONCEALED-CEILING VOID)		
	FLUSH TYPE SPRINKLER		
	SEMI-RECESSED SPRINKLER		
	SIDE WALL SPRINKLER		
	SPRINKLER U/S ESCALATOR/DUCT/BEAM		

NON-ABBREVIATED DESCRIPTIONS

FA	FROM ABOVE
FB	FROM BELOW
TA	TO ABOVE
TB	TO BELOW
H/L	HIGH LEVEL
L/L	LOW LEVEL
SP	SPRINKLER PIPE
SFHP OR SH	STATION FIRE HYDRANT PIPE
TFHP OR TH	TUNNEL FIRE HYDRANT PIPE
IV	ISOLATION VALVE
U/S	UNDER SIDE

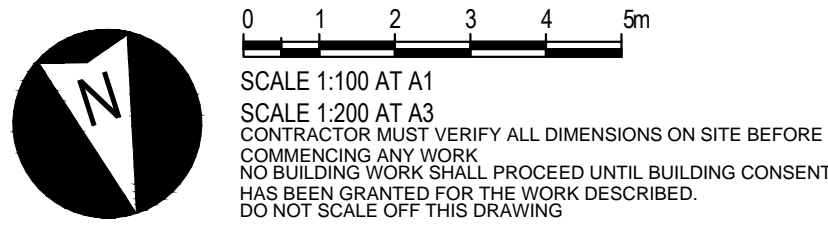
OTHERS

	AUTOMATIC AIR RELIEF VALVE		
	BREATHING APPRATUS		
	CONCEALED NOZZLE INSIDE CEILING VOID/ INSIDE RAISED FLOOR SPACE		
	CONTROL VALVE (SCH)		
	CONTROL VALVE		
	DRAIN-OFF VALVE		
	EMERGENCY MANUAL RELEASE UNIT		
	EXPOSED NOZZLE INSIDE CEILING LEVEL/ AT SOFFITT SLAB		
	FIRE PUMP (SCH)		
	FIRE PUMP		
	GAS CYLINDERS C/W MANIFOLD		
	SINGLE OUTLET HYDRANT		TWIN OUTLET HYDRANT
	HYDRANT		
	PRESSURE GUAGE C/W COCK		
	SIREN		
	TOTAL FLOODING GAS CONTROL PANEL C/W BATTERY COMPARTMENT		
	VORTEX INHIBITOR (SCH)		
	VORTEX INHIBITOR		
	END OF LINE		
	INTERFACE TERMINAL BOX		
	WARDEN INTERCOMMUNICATION POINT		
	CPO SUB FIRE ALARM PANEL		
	VESDA PANEL		
	SUB-FIRE ALARM PANEL		
	OPTICAL HEAT DETECTION CABLE		



ZONE KEY

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aurecon GRIMSHAW

MOTT MACDONALD M Jasmx ARUP

CLIENT



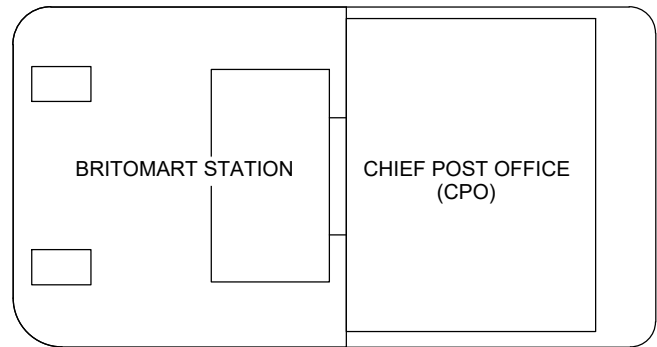
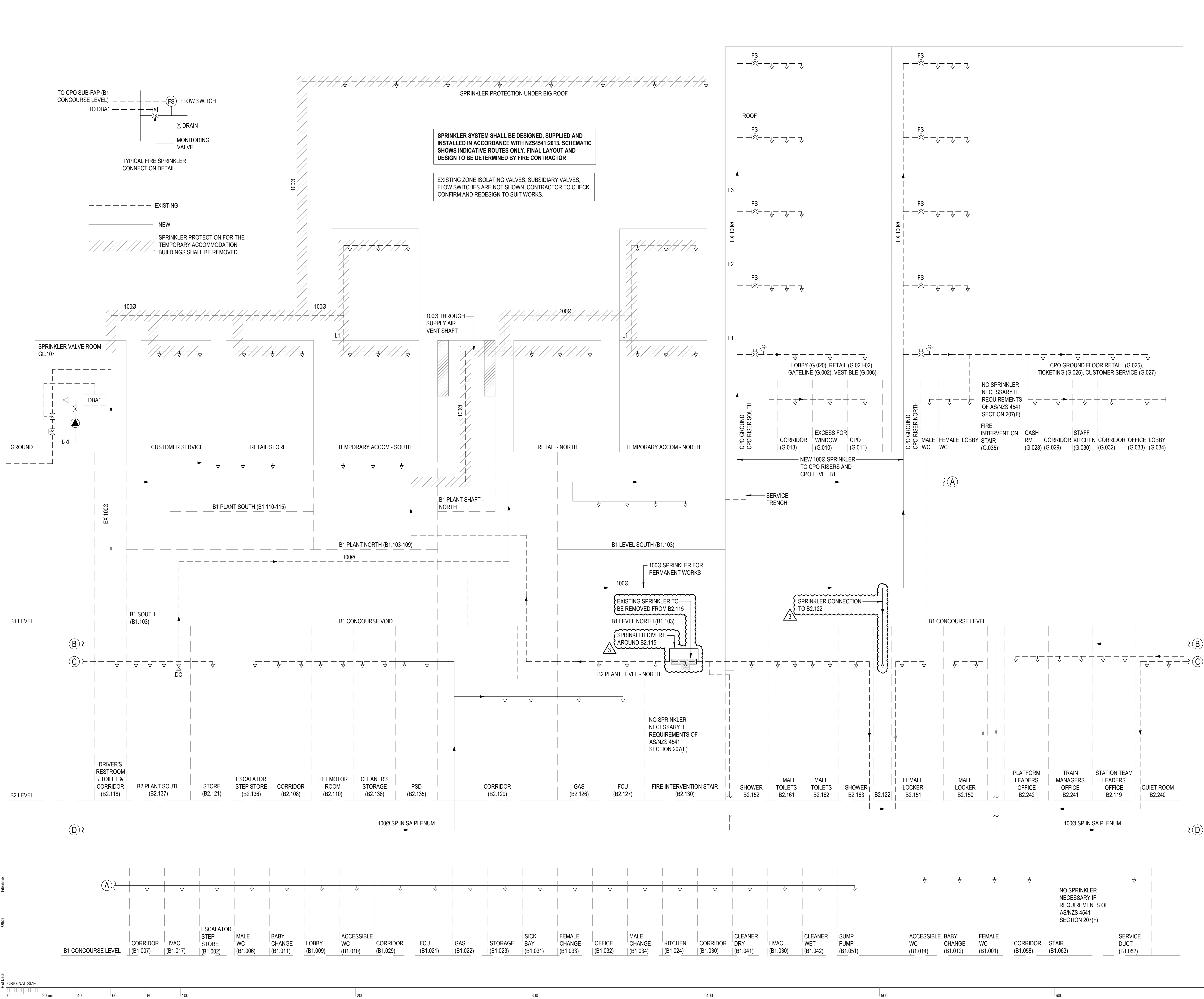
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1	05/08/16	ISSUED FOR CONSTRUCTION	T. IRELAND

SCALE	SIZE	FOR CONSTRUCTION	
N.T.S.	A1		
DRAWN	APPROVED		
N. ZIN HNIN	DATE 05/08/16		
DESIGNED	T. IRELAND		
M. EL-SHEIKH	T.IRELAND		
CHECKED			
K. HIDE			

PROJECT		
AUCKLAND CITY RAIL LINK		
TITLE		
BRITOMART STATION FIRE SERVICES STANDARD LEGEND		

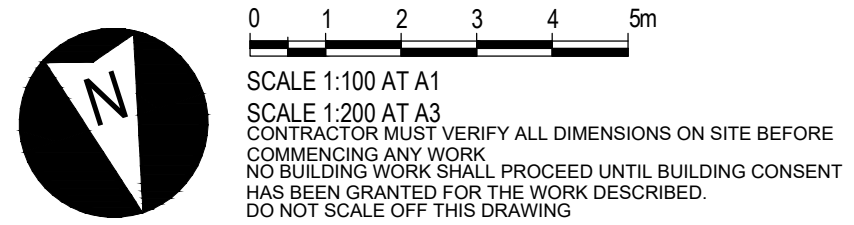
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PROJECT	ZONE	DISCIPLINE	ELEMENT	TYPE	SHEET	REVISION
CRL	BTM	FIR	000	DRG	0001	1





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**aurecon**

**M**

**MOTT  
MACDONALD**

**M**



**ARUP**

**CLIENT**



REV	DATE	REVISION DETAILS	APPROVAL
1	17/03/17	ISSUED FOR CONSTRUCTION	T. IRELAND
2	12/10/18	REVISED TRANSFER SLAB ROUTE	G. DANIEL
3	01/03/19	STAGE 1 COMMS REVIEW	G. DANIEL

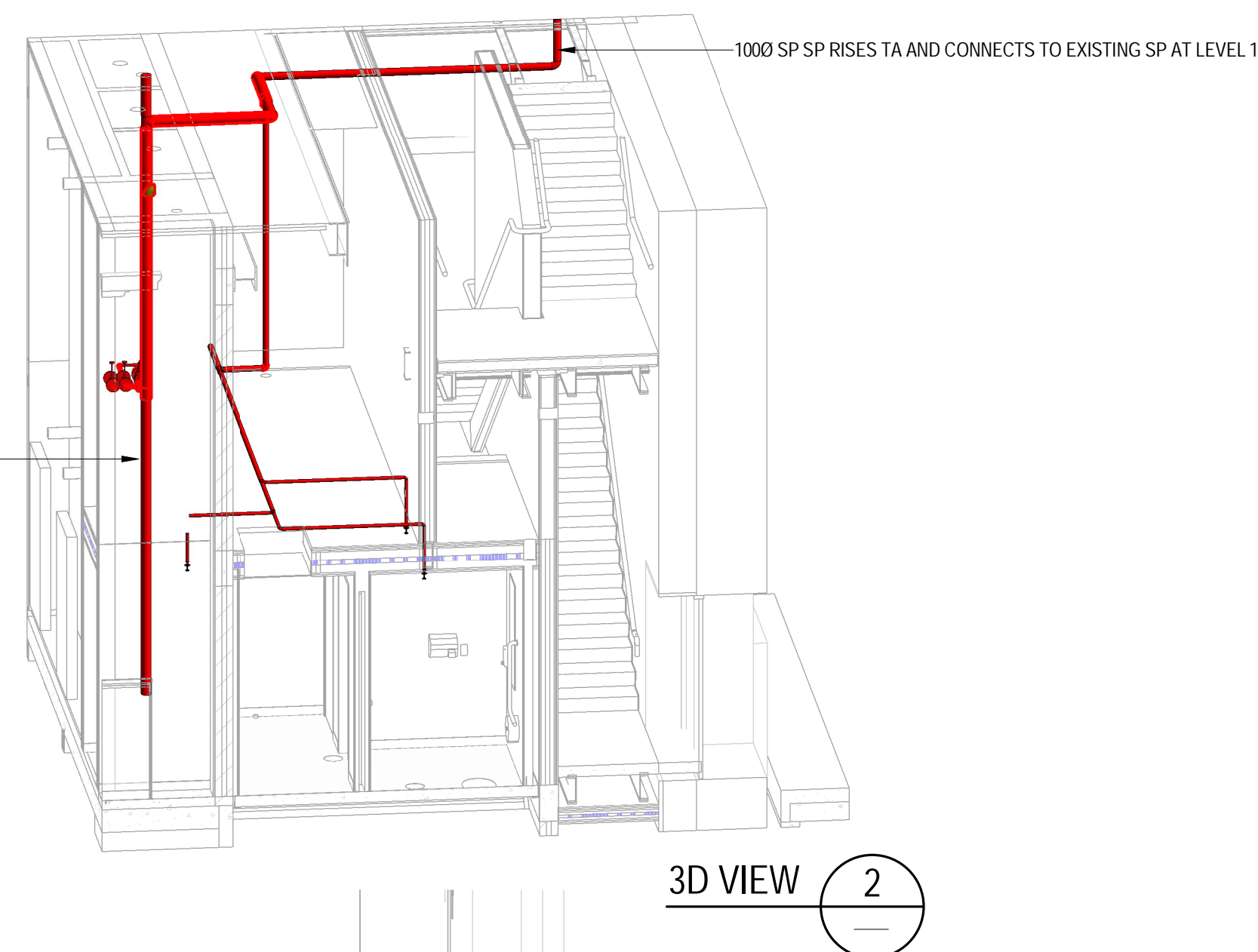
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DRAWN	APPROVED	DATE
N. ZIN HNIN	G. DANIEL	01/03/19
DESIGNED		
L. BOYCE		
CHECKED		
L. BOYCE		

PROJECT
CITY RAIL LINK C1 CONTRACT BRITOMART STATION

TITLE
BRITOMART STATION FIRE SERVICES PERMANENT WORKS SPRINKLER SCHEMATIC

DOCUMENT
PROJECT ZONE DISCIPLINE ELEMENT TYPE SHEET REVISION
CRL - BTM - FIR - 000 - DRG - 1001 - 3

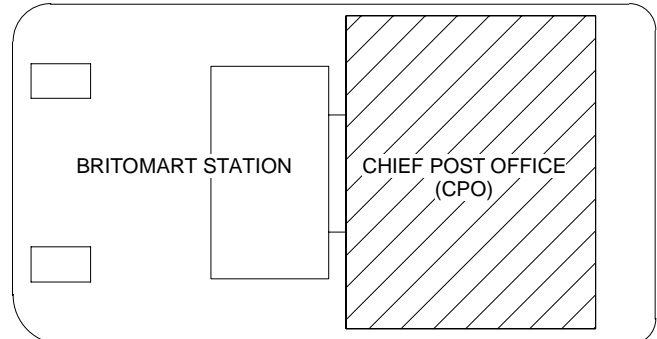
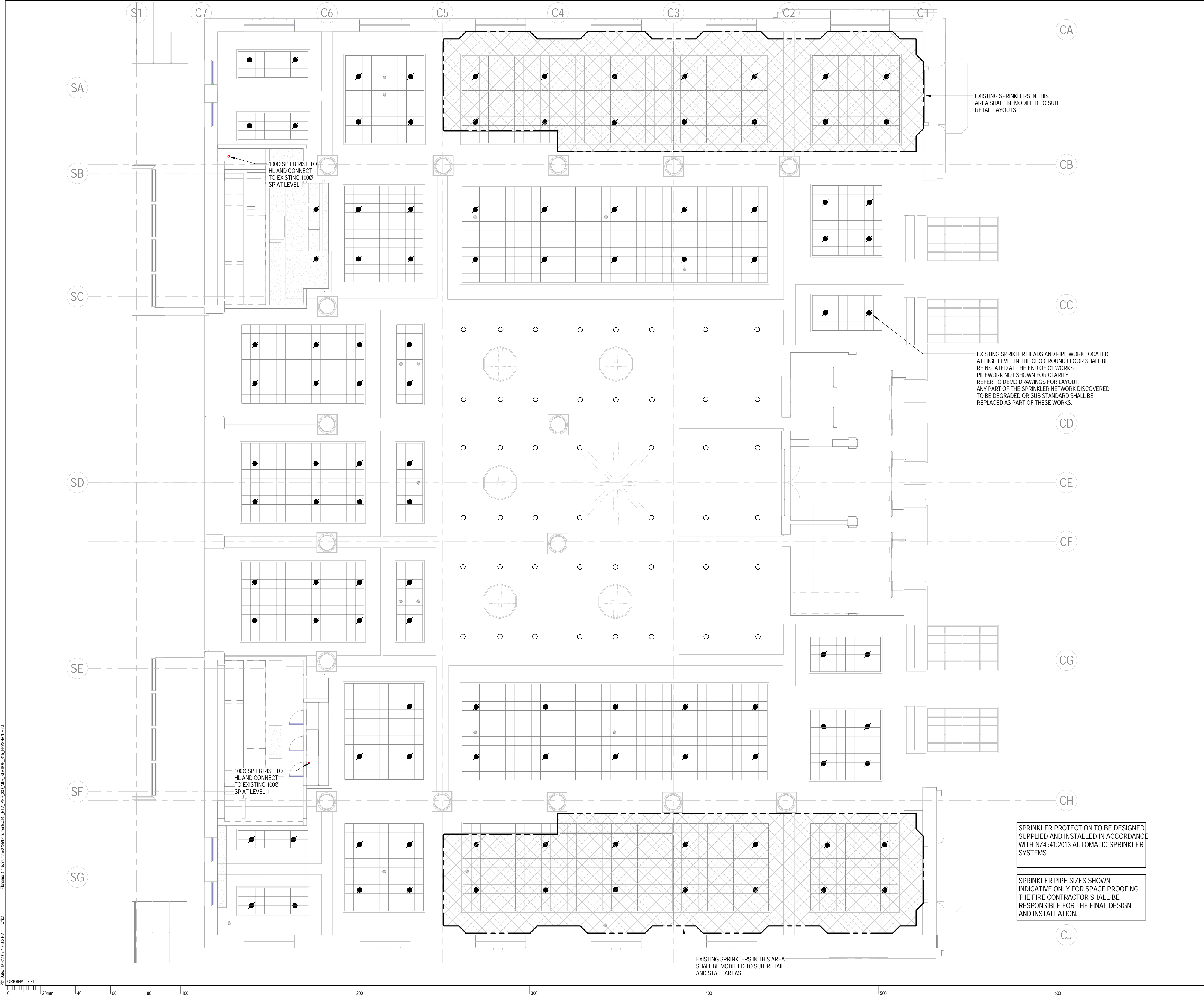




SPRINKLER PIPE SIZES SHOWN  
INDICATIVE ONLY FOR SPACE PROOFING.  
THE FIRE CONTRACTOR SHALL BE  
RESPONSIBLE FOR THE FINAL DESIGN  
AND INSTALLATION.

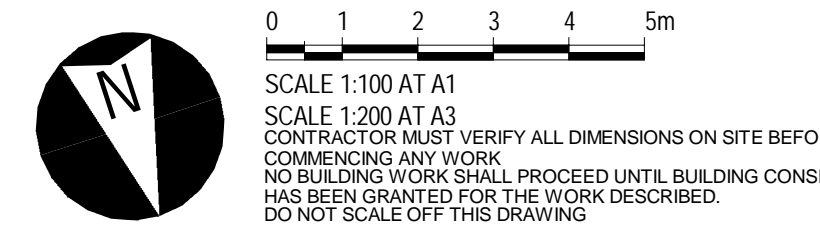






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**aurecon GRIMSHAW**

**MOTT MACDONALD**

**M Jasmx**

**ARUP**

CLIENT



REV	DATE	REVISION DETAILS	APPROVAL
1	17/03/17	ISSUED FOR CONSTRUCTION	T. IRELAND

SCALE	SIZE	
1 : 100	A1	FOR CONSTRUCTION
DRAWN		APPROVED
PRASHANTH		DATE 17/03/17
DESIGNED		
M. ELSHEIK		T. IRELAND
CHECKED		
K. HIDE		T. IRELAND

PROJECT

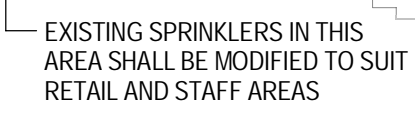
AUCKLAND CITY RAIL LINK

**TITLE**

CHIEF POST OFFICE (C.P.O.)  
FIRE SERVICES  
PERMANENT WORKS  
SPRINKLER PROTECTION - GROUND HIGH LEVEL

DOCUMENT						
PROJECT	ZONE	DISCIPLINE	ELEMENT	TYPE	SHEET	REVISION
CRL	BTM	FIR	000	DRG	1210	1



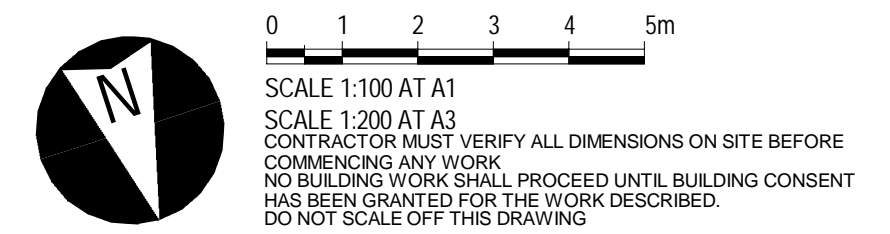




### ZONE KEY

GENERAL NOTES:

- a. BRITMART STATION SHALL REMAIN OPERATIONAL THROUGHOUT THE DEMOLITION, TEMPORARY AND PERMANENT WORKS. THE CONTRACTOR SHALL ALLOW FOR ALL STAGING AND PHASING OF THE WORKS TO ENSURE CONTINUOUS OPERATION OF THE STATION IS MAINTAINED.
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- f. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE WORKABLE SOLUTIONS TO MEET THE REQUIREMENTS AS SPECIFIED AND INDICATED WITHIN THE DESIGN DOCUMENTATION.
- g. FINAL LOCATION OF EQUIPMENT MAY DIFFER. CONTRACTOR TO ENSURE FULL COORDINATION WITH ALL OTHER SERVICES.
- h. ALL DIMENSIONS AND DETAILS SHALL BE CHECKED ON SITE.
- i. ALL SIZES AND DIMENSIONS NOTED ARE NOMINAL AND ARE IN MILLIMETRES (MM).
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- k. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NEW ZEALAND BUILDING CODE AND THE LATEST EDITION OF ALL RELEVANT STATUTORY REQUIREMENTS, REGULATIONS AND ACTS.
- l. THE CONTRACTOR SHALL FIRE STOP ALL SERVICES THROUGH EXISTING AND NEW FIRE COMPARTMENTS WHERE REQUIRED. REFER ARCHITECTURAL DRAWINGS FOR ALL FIRE RATING REQUIREMENTS.



**aurecon** GRIMSHAW

**M** **M**  
**MOTT**  
**MACDONALD**

**M**



ARUP

## CLIENT

[illegible]

SCALE	SIZE	FOR CONSTRUCTION
1 : 100	A1	
DRAWN	<div>APPROVED</div> <div>DATE 17/03/17</div> <div>T. IRELAND</div> <div>T. IRELAND</div>	
PRASHANTH		
DESIGNED		
M. ELSHEIK		
CHECKED		
K. HIDE		

## PROJECT

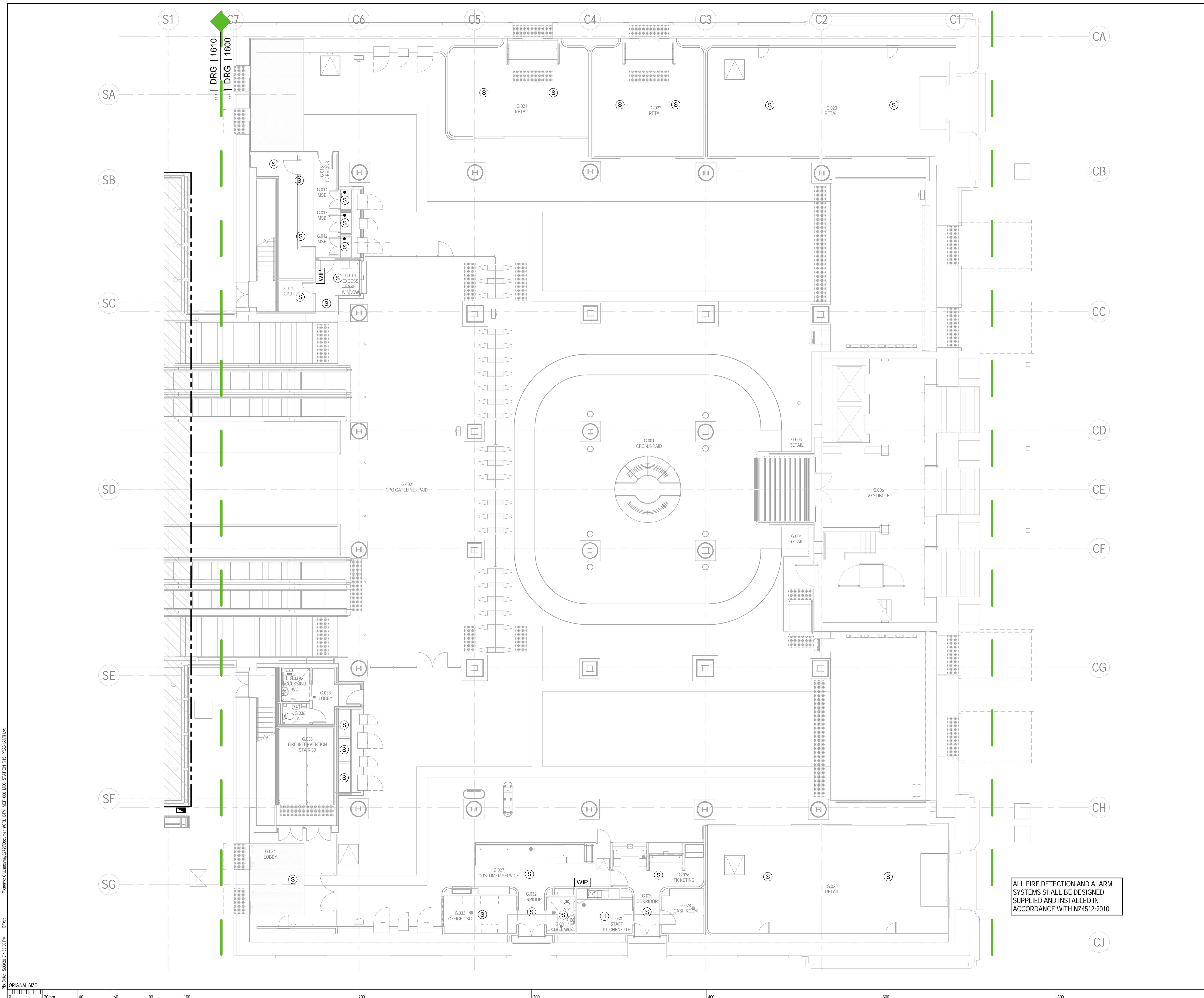
AUCKLAND CITY RAIL LINK

**TITLE**

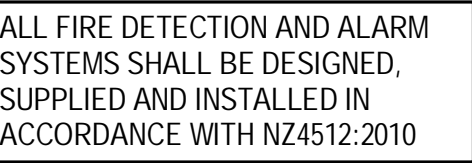
CHIEF POST OFFICE (C.P.O.)  
FIRE SERVICES  
PERMANENT WORKS  
ALARMS AND DETECTION - GROUND FLOOR

DOCUMENT						
PROJECT	ZONE	DISCIPLINE	ELEMENT	TYPE	SHEET	REVISION
CRL	BTM	FIR	000	DRG	1605	1

ALL FIRE DETECTION AND ALARM SYSTEMS SHALL BE DESIGNED, SUPPLIED AND INSTALLED IN ACCORDANCE WITH NZ4512:2010







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SCALE 1:100 AT A1  
SCALE 1:200 AT A3  
CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE  
COMMENCING ANY WORK  
NO BUILDING WORK SHALL PROCEED UNTIL BUILDING CONSEN  
HAS BEEN GRANTED FOR THE WORK DESCRIBED.  
DO NOT SCALE OFF THIS DRAWING

M

**MOTT  
MACDONALD**

# M

**Jasmax**

ARUP

## CLIENT

[illegible]

<b>SCALE</b>	<b>SIZE</b>	<div>FOR CONSTRUCTION</div> <div>APPROVED</div> <div>DATE 1703/17</div> <div>T. IRELAND</div> <div>T. IRELAND</div>
1 : 100	A1	
<b>DRAWN</b>		
PRASHANTH		
<b>DESIGNED</b>		
M. ELSHEIK		
<b>CHECKED</b>		
K. HIDE		

## PROJECT

# AUCKLAND CITY RAIL LINK

TITL

CHIEF POST OFFICE (C.P.O.)  
FIRE SERVICES  
PERMANENT WORKS  
ALARMS AND DETECTION - GROUND HIGH LEVEL

DOCUMENT						
PROJECT	ZONE	DISCIPLINE	ELEMENT	TYPE	SHEET	REVISION
CRL	BTM	FIR	000	DRG	1610	1



EXISTING VESDA DETECTION IN THE CPO GROUND FLOOR SHALL BE REINSTATED AT THE END OF C1 WORKS.

ANY PART OF THE VESDA NETWORK DISCOVERED TO BE DEGRADED OR SUBSTANDARD SHALL BE REPLACED AS PART OF THESE WORKS

VESDA SAMPLING TUBE CONCEALED IN CEILING SPACE.

RETAIN END CAP.

TYPICAL CPO GROUND CEILING LEVEL VESDA NETWORK

RETAIN COPPER CAPILLARY SAMPLING TUBE THROUGH PLASTER CEILING TILES

RETAIN VESDA SAMPLING TUBE CONCEALED IN CEILING SPACE.

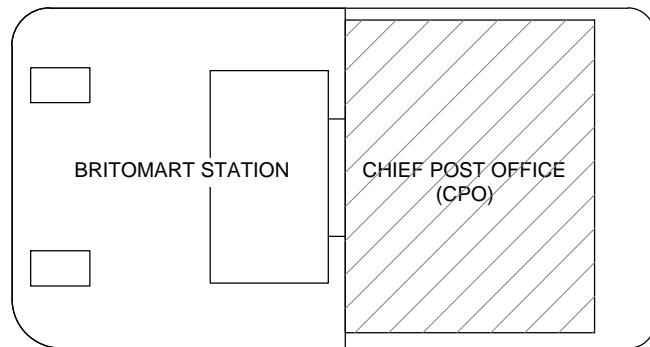
EX FIRE ALARM CABLE TRAY.

NEW SAMPLING TUBES DROPPING FROM GROUND FLOOR TO B1 LEVEL WHERE POSSIBLE.

1000 SP FB RISE TO HIGH LEVEL AND CONNECT TO EXISTING 1000 SP AT LEVEL 1 TO SERVE CPO LEVELS 1-4.

CPO GROUND MONITORING VALVE AND FLOW SWITCH TO BE PROVIDED AT THIS LEVEL. FINAL LOCATION TO BE DETERMINED ON SITE.

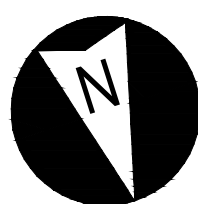
SOUTH SERVICES RISER DUCT.



ZONE KEY

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0 1 2 3 4 5m

SCALE 1:100 AT A1  
SCALE 1:200 AT A3  
CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK.  
NO BUILDING WORK SHALL PROCEED UNTIL BUILDING CONSENT HAS BEEN GRANTED FOR THE WORK DESCRIBED.  
DO NOT SCALE OFF THIS DRAWING

**aurecon** GRIMSHAW

**M**

**MOTT  
MACDONALD**

**M**



**ARUP**

CLIENT



REV	DATE	REVISION DETAILS	APPROVAL
1	17/03/17	ISSUED FOR CONSTRUCTION	T. IRELAND

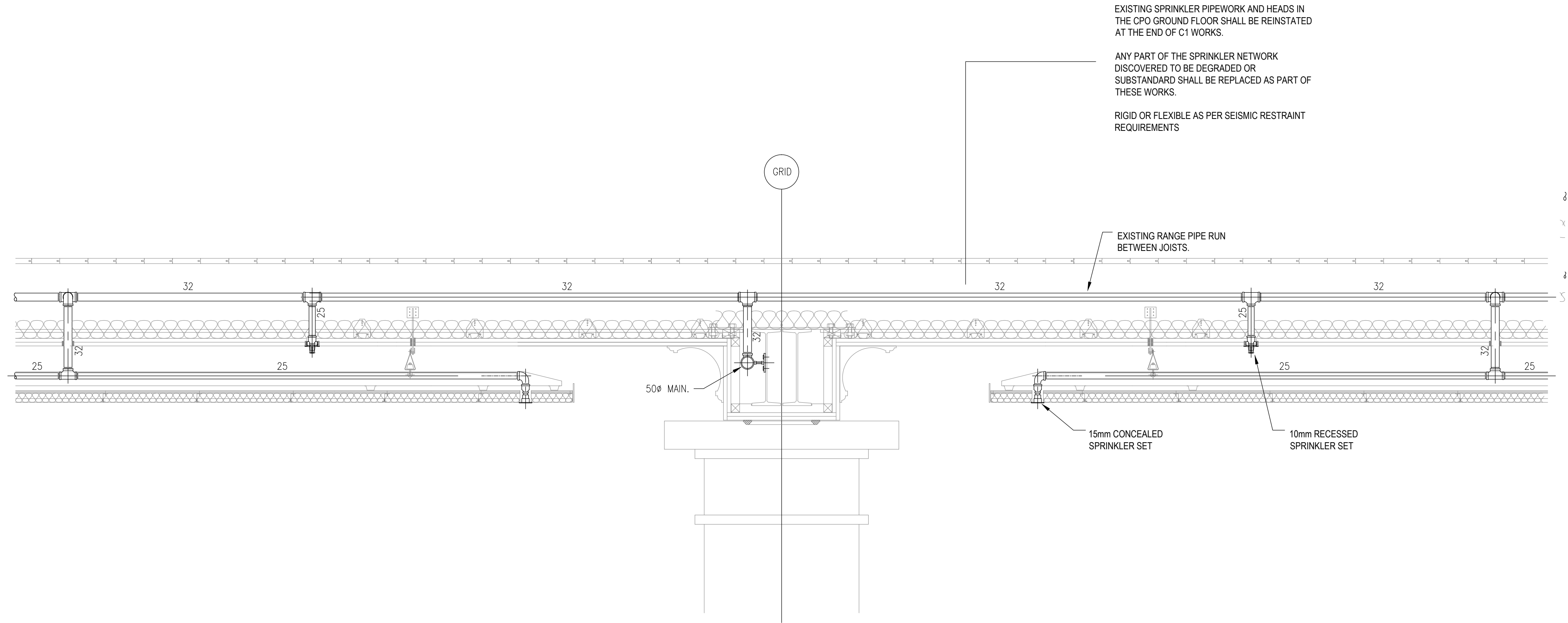
SCALE	SIZE	FOR CONSTRUCTION
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DRAWN	APPROVED	
N. ZIN HNIN		DATE 17/03/17
DESIGNED		T. IRELAND
M. EL-SHEIKH		T. IRELAND
CHECKED		
K. HIDE		

PROJECT
AUCKLAND CITY RAIL LINK

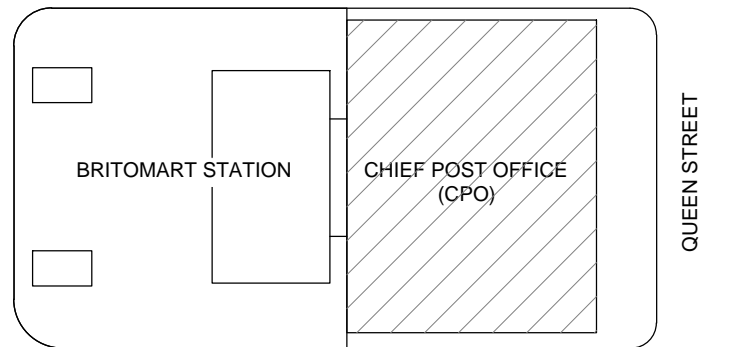
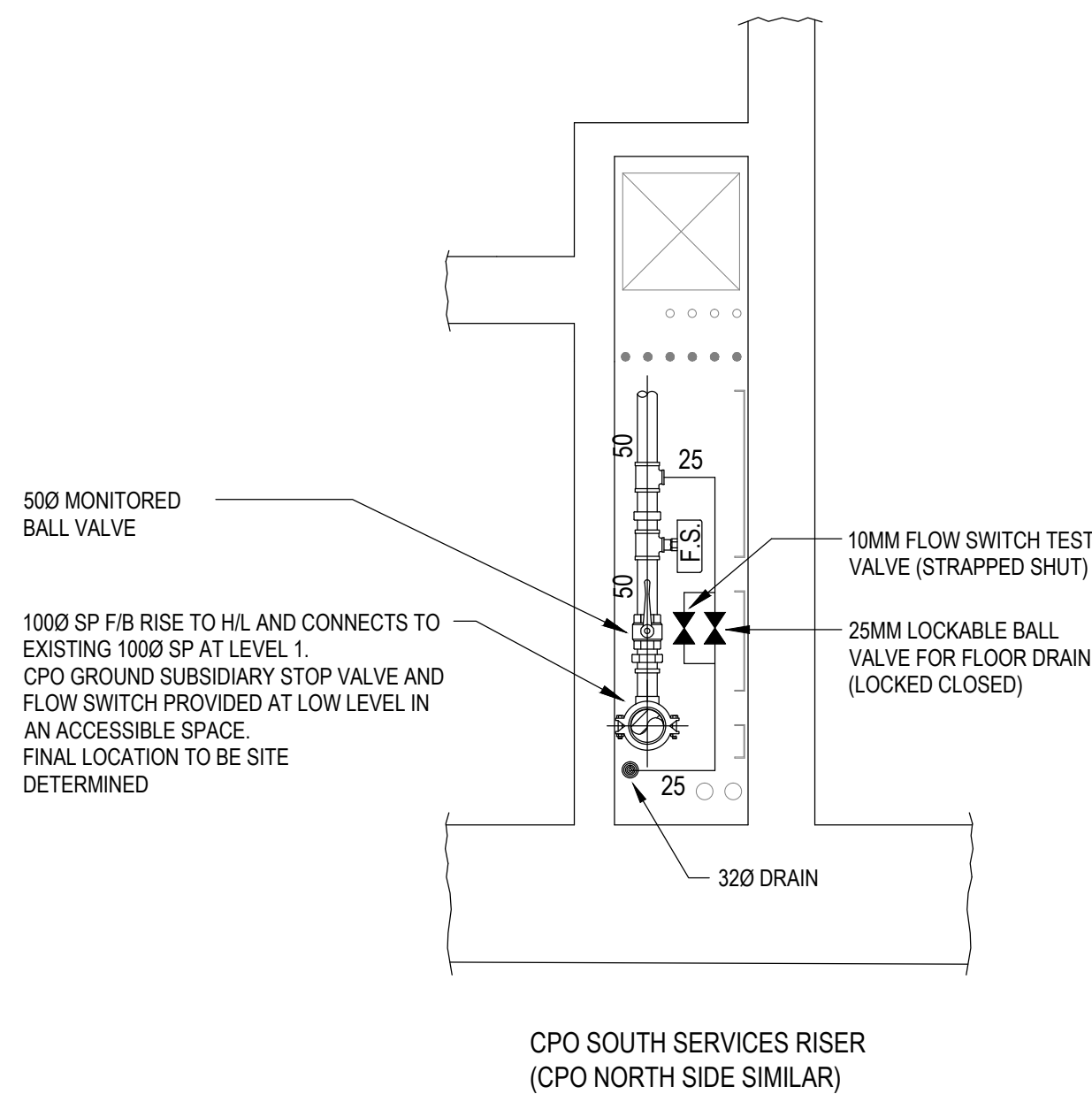
TITLE
CHIEF POST OFFICE (C.P.O) FIRE SERVICES PERMANENT WORKS ALARMS AND DETECTION - VESDA

PROJECT	ZONE	DISCIPLINE	ELEMENT	TYPE	SHEET	REVISION
CRL - BTM	FIR	000	DRG - 1700	-	1	



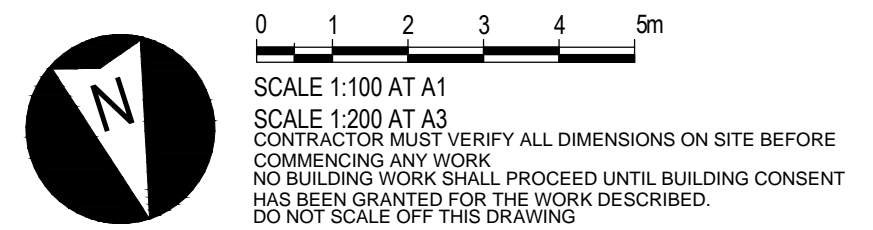


TYPICAL CPO GROUND FLOOR CEILING SECTION



ZONE KEY

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**aurecon** GRIMSHAW

**M** MOTT MACDONALD **M** Jasmx **ARUP**

CLIENT



REV	DATE	REVISION DETAILS	APPROVAL
1	17/03/17	ISSUED FOR CONSTRUCTION	T. IRELAND

SCALE	SIZE	FOR CONSTRUCTION
AS SHOWN	A1	
DRAWN	APPROVED	
N. ZIN HNIN		DATE 17/03/17
DESIGNED		T. IRELAND
M. EL-SHEIKH		T. IRELAND
CHECKED		
L. BOYCE		

**PROJECT**

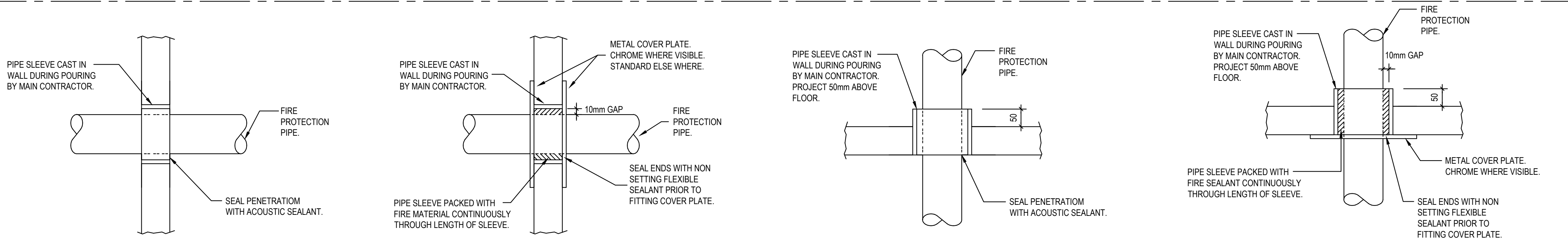
AUCKLAND CITY RAIL LINK

**TITLE**

CHIEF POST OFFICE (C.P.O)  
FIRE SERVICES  
PERMANENT WORKS  
SPRINKLER PROTECTION - HIGH LEVEL

PROJECT	ZONE	DISCIPLINE	ELEMENT	TYPE	SHEET	REVISION
CRL - BTM	FIR	000	DRG	1705	1	





WALL PENETRATION.

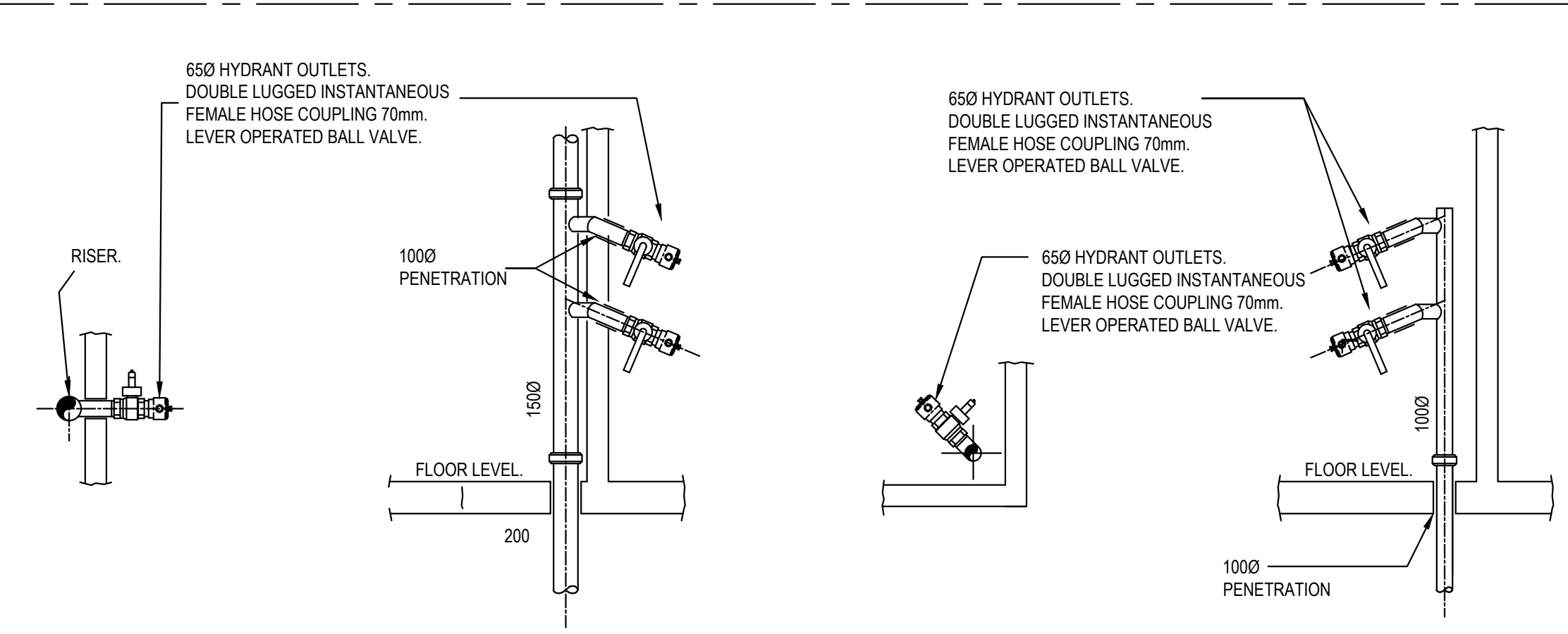
FIRE RATED WALL PENETRATION.

FLOOR PENETRATION.

FIRE RATED FLOOR PENETRATION.

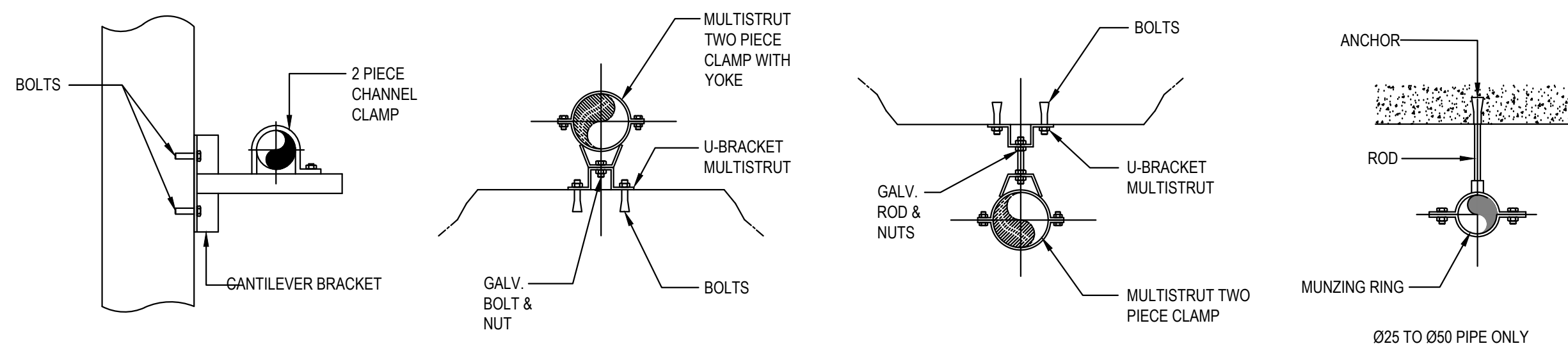
TYPICAL WALL AND FLOOR PENETRATIONS

REFER ARCHITECTURAL LAYOUTS FOR FIRE RATING REQUIREMENTS FOR WALLS, FLOORS AND CEILINGS

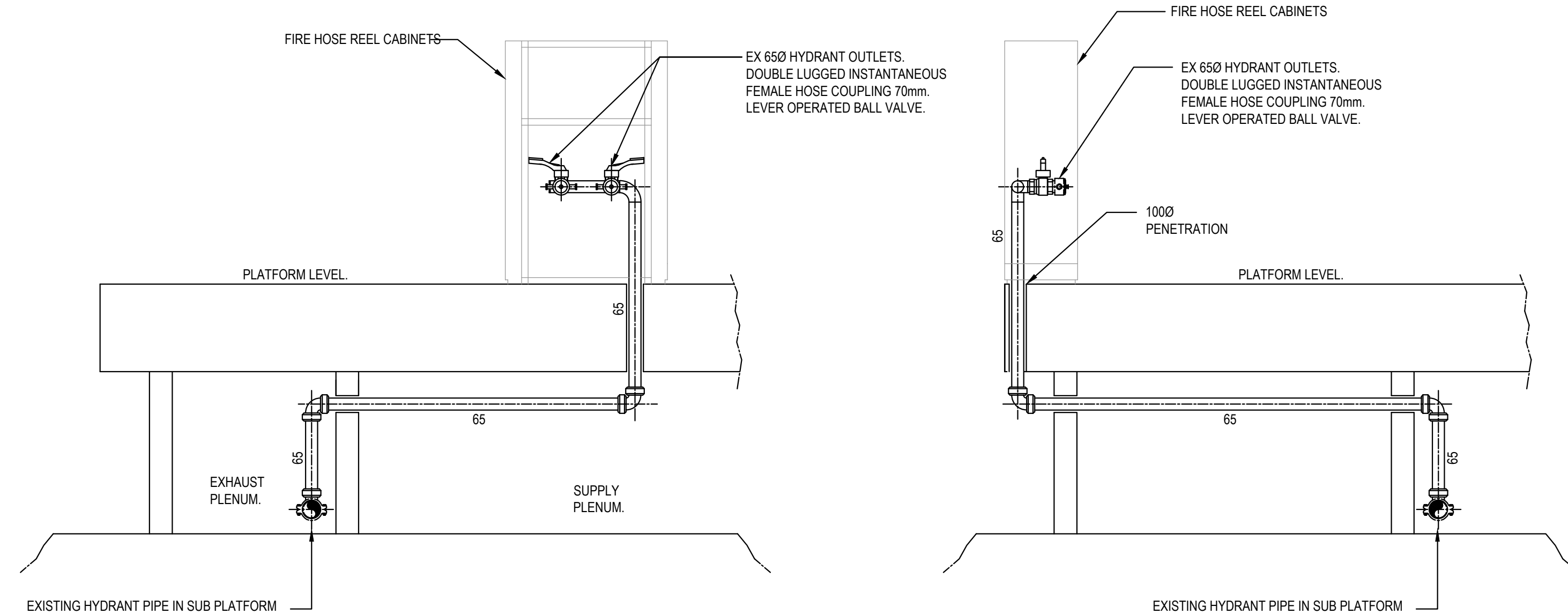


TYPICAL THROUGH WALL HYDRANT OUTLET

TYPICAL EXPOSED HYDRANT OUTLET

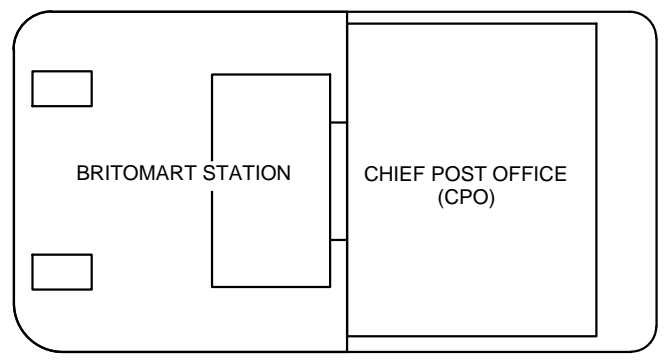


TYPICAL HANGER DETAILS



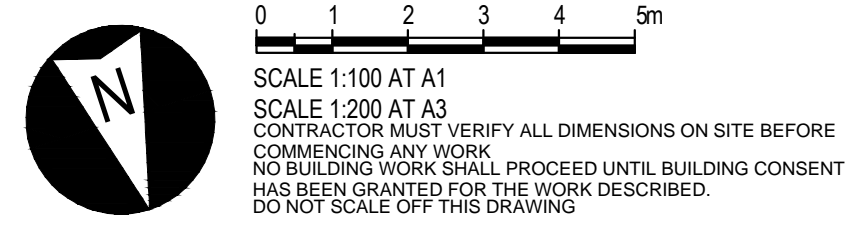
EXISTING PLATFORM HYDRANT SECTIONS

ALL SUPPORT AND RESTRAINT SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NZS 4219:2009



ZONE KEY

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**aurecon** GRIMSHAW

**M** **M** **ARUP**

**MOTT MACDONALD** **Jasmax**

CLIENT



REV	DATE	REVISION DETAILS	APPROVAL
1	05/08/16	ISSUED FOR CONSTRUCTION	T. IRELAND

SCALE	SIZE	FOR CONSTRUCTION
N.T.S.	A1	
DRAWN	APPROVED	
N. ZIN HNIN		DATE 05/08/16
DESIGNED		T. IRELAND
M. EL-SHEIKH		T.IRELAND
CHECKED		
K. HIDE		

PROJECT

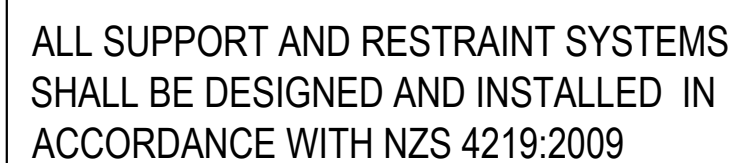
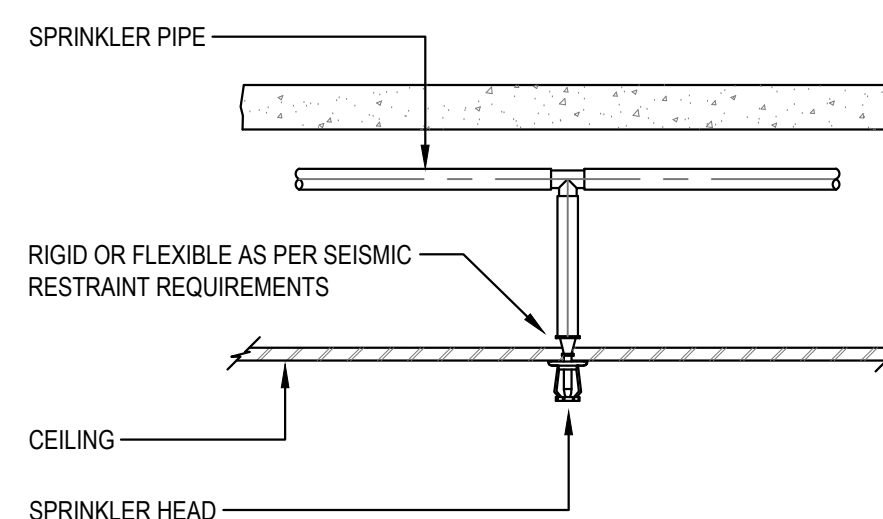
AUCKLAND CITY RAIL LINK

TITLE

BRITOMART STATION  
FIRE SERVICES  
STANDARD DETAILS 1

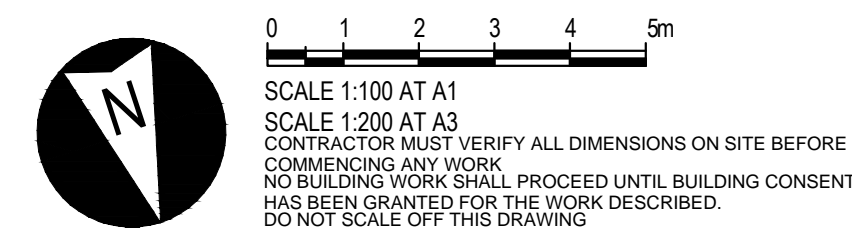
DOCUMENT						
PROJECT	ZONE	DISCIPLINE	ELEMENT	TYPE	SHEET	REVISION
CRL - BTM	FIR	000	DRG	2600	1	





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M

**MOTT  
MACDONALD**

M



Jasmax

ARUP

**CLIENT**

[illegible]

<b>SCALE</b>	<b>SIZE</b>	FOR CONSTRUCTION
N.T.S.	A1	
<b>DRAWN</b>		<b>APPROVED</b>
N. ZIN HNIN		DATE
<b>DESIGNED</b>		05/08/16
M. EL-SHEIKH		T. IRELAND
<b>CHECKED</b>		T.IRELAND
K. HIDE		

PROJECT

AUCKLAND CITY RAIL LINK

**TITLE**

BRITOMART STATION  
FIRE SERVICES  
STANDARD DETAILS 2

DOCUMENT						
PROJECT	ZONE	DISCIPLINE	ELEMENT	TYPE	SHEET	REVISION
CRL	BTM	FIR	000	DRG	2601	1