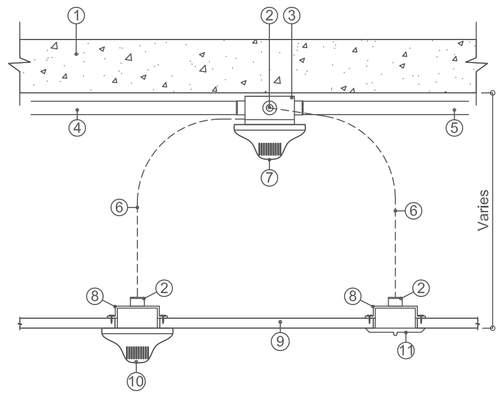

Legend :

1. Slab
2. Gland
3. 4-Way drawbox
4. Ø25 conduit with metallic saddles
5. Fire Rated cable to BS 6387
6. Reyroll type sprague adaptalock flexible, black
7. Detector for ceiling void
8. Back entry drawbox
9. Ceiling tile
10. Detector in room space
11. Void detector LED and address

Typical Smoke Detector Detail
(Ceiling Void Detector only when applicable)

GENERAL NOTES

A) THIS DRAWING TO BE USED FOR SECURITY, ACCESS CONTROL, FIRE DETECTION, INTERCOM, BGM (P.A.), TELEPHONE AND DATA/ COMMS PURPOSES ONLY.

B) DO NOT SCALE THIS DRAWING.

C) REFER TO ARCHITECTS AND STRUCTURAL ENGINEERS DRAWINGS FOR ALL BUILDING DIMENSIONS, LATEST BUILDING REVISIONS AND SERVICES.

D) THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SECURITY, ACCESS CONTROL, FIRE DETECTION, INTERCOM, BGM (P.A.), TELEPHONE AND DATA/COMMS SPECIFICATION.

E) ALL WORK TO COMPLY WITH RELEVANT STANDARD CODES OF PRACTICE, SPECIFICATIONS AND REGULATIONS.

F) NOT WITHSTANDING ANYTHING TO THE CONTRARY, ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY MATERIAL FORM (INCLUDING PHOTOCOPYING OR STORING IN ANY MEDIUM OR BY ELECTRONIC MEANS AND WHETHER OR NOT TRANSIENTLY OR INCIDENTLY TO SOME OTHER USE OF THIS DRAWING) AND ALSO, THIS DRAWING MAY NOT BE USED FOR ANY PURPOSE OR REASON OTHER THAN FOR WHICH IT WAS ORIGINALLY ISSUED, WITHOUT THE WRITTEN PERMISSION OF IBUYA CONSULTING ENGINEERS.

DRAWING NOTES:

REFER TO DETAIL DRAWING NO. 17052_511 FOR ACCESS CONTROL DETAILS.

(1) Conduit point @ 1000mm affl, for Fire Phone.

(2) 250x250 Junction box in ceiling void for Access Control. Refer to details.

GENERAL NOTES:

(A) Conduit links from level below and up to level above.

(B) Conduit links to Wire Mesh Basket.

REV	DATE	BY	DESCRIPTION	CHK
A	01/09/22	VT	General Revision	AM
0	22/02/18	VT	ISSUED FOR APPROVAL	AM

REVISIONS

LDM
Solutions For The Built Environment

PROJECT/SERVICES

Government Printing Works
Refurbishment

TITLE

First Floor
Electronic Services Conduit
Layout and Details

ENGINEER:	DRAWN BY	DATE:	CHECKED	SCALE:
AM	VT	NOV'17		1:100
PROJECT No.	DRAWING No.	SHEET:		PAPER SIZE: A1
17052	302			REV: A

FILE:17052_302 LAYERS:

NOTES: (1) - Contractor to ensure max distance between draw boxes 20 metres notwithstanding anything to contrary. (2) - Draw boxes required after every second 90 deg, bend or 180 deg. total of slow bends. (3) - All unwired conduits to be provided with draw wires. These will be withdrawn and checked at random. (4) - Cast in conduits to be spaced 35mm, minimum.

- 100x100 CONDUIT BOX.
- 100x100 CONDUIT BOX AT 500AFFL.
- 100x100 CONDUIT BOX AT 1200AFFL.
- 100x50 CONDUIT BOX
- 100x50 CONDUIT BOX AT 500AFFL.
- 100x50 CONDUIT BOX AT 1200AFFL.
- ROUND CONDUIT BOX.
- ROUND DRAW BOX
- 100x100 DRAW BOX

- 100x50 BOX BEHIND POWER SKIRTING
- CONDUIT TURNED UP ("D" FOR DOWN)
- DOWN CONDUCTOR TO EARTH OR EARTH TIE.
- SQUARE GALV. STEEL DRAW TRAY AS SHOWN SHOWN.
- SECTION OF CONDUIT OMITTED FOR CLARITY
- 20mm. DIA. CONDUIT.
- 25mm. DIA. CONDUIT.
- 32mm. DIA. CONDUIT.
- 50mm. DIA. CONDUIT.

- OVERHEAD CAST-IN
- OVERHEAD ON SURFACE OR LAID ON CEILING.
- FLOOR SLAB CAST-IN.
- POWER SKIRTING
- TRUNKING
- CABLE SLEEVE.
- CABLE TRAY/LADDER
- POWER CABLE

- REFERENCE TO QUANTITY i.e. 3No.
- REFERENCE TO A DETAIL i.e. DETAIL 2.
- REFERENCE TO AN ELECTRICAL NOTE i.e. NOTE 4.
- REFERENCE TO A STANDARD DRAWING i.e. STANDARD DRAWING No.34
- CABLE NUMBER - REFER TO SCHEDULE FOR DETAILS

- TELEPHONE JUNCTION BOX.
- INTERCOM JUNCTION BOX.
- DATA/COMMS JUNCTION BOX.
- SECURITY, ETC. JUNCTION BOX
- DISTRIBUTION BOARD POSITION.
- DB-1 BOARD DESIGNATION NUMBER.
- TELEPHONE POINT.
- DATA/COMMS OUTLET.

- CCTV CAMERA
- CCTV CAMERA ON AUTO PANNING MOUNT
- CCTV CAMERA ON PAN & TILT MOUNT
- CCTV CAMERA ON AUTO PANNING IN DISCRETE OPAQUE DOME COVER
- CCTV CAMERA FIELD OF VIEW
- PASSIVE INFRARED CURTAIN DETECTOR

- INFRARED BEAM TRANSMITTER AND RECEIVER
- INFRARED OR ULTRASONIC MOTION DETECTOR
- DOOR MONITOR - FLATLINE OF SYMBOL FACES ATTACK SIDE
- X-RAY INSPECTION MACHINE OR LETTER/ PARCEL BOMB /EXPLOSIVE DETECTOR
- WALK THROUGH METAL DETECTOR

- 220 VOLT POWER OUTLET FACILITY
- SIGNAL OUTLET 2x4/4x4 FLUSH CONDUIT BOX.
- SECURITY CONTROL PANEL/JUNCTION BOX
- ELECTRIC LOCK/STRIKE
- KEY SWITCH
- FLOOR PEDAL SWITCH
- SPRING RETURN PUSH BUTTON/LEVER RELEASE

EL - ELECTRIC LOCK/STRIKE
MA - MOTION ALARM
ACR - ACCESS CONTROL CARD READER
PCR - POLE MOUNTED ACCESS CONTROL CARD READER
VBB - VEHICLE BARRIER BOOM CONTROLLER
AA - ACCESS ALARM
AC - ACCESS CONTROL
CR - CARD READER
EO - EXIT OVERRIDE
AO - ALARM OVERRIDE
DM - DOOR MONITOR
CAM- CAMERA
ER - ELECTRIC RELEASE

- COMMUNICATION PANEL/JUNCTION BOX
- INTERCOM MASTER STATION
- INTERCOM SLAVE/SUBSTATION
- INTERCOM CALL PUSH BUTTON UNIT
- HORN/TRUMPET LOUDSPEAKER
- CEILING FLUSH MOUNTED LOUDSPEAKER
- WALL MOUNTED LOUDSPEAKER
- TALK-BACK WALL MOUNTED LOUDSPEAKER

- COLUMN SPEAKER
- ATTENUATOR
- MICROPHONE INPUT JACK IN 100x100 CONDUIT BOX
- SPEAKER OUTPUT JACK IN 100x100 CONDUIT BOX
- FM OR AM ANTENNA AS SPECIFIED
- SOUND EQUIPMENT - CABINET RACK

COM - COMMUNICATION/INTERCOM
BGM - BACK GROUND MUSIC SYSTEM WITH OR WITHOUT AUDIBLE VOICE REINFORCEMENT (P.A.)

- CEILING MOUNTED MICROPHONE
- MICROPHONE
- RADIO MICROPHONE

- FIRE ALARM PANEL/JUNCTION BOX
- ALARM BELL
- SMOKE IONISATION DETECTOR
- HEAT DETECTOR
- BREAK GLASS UNIT