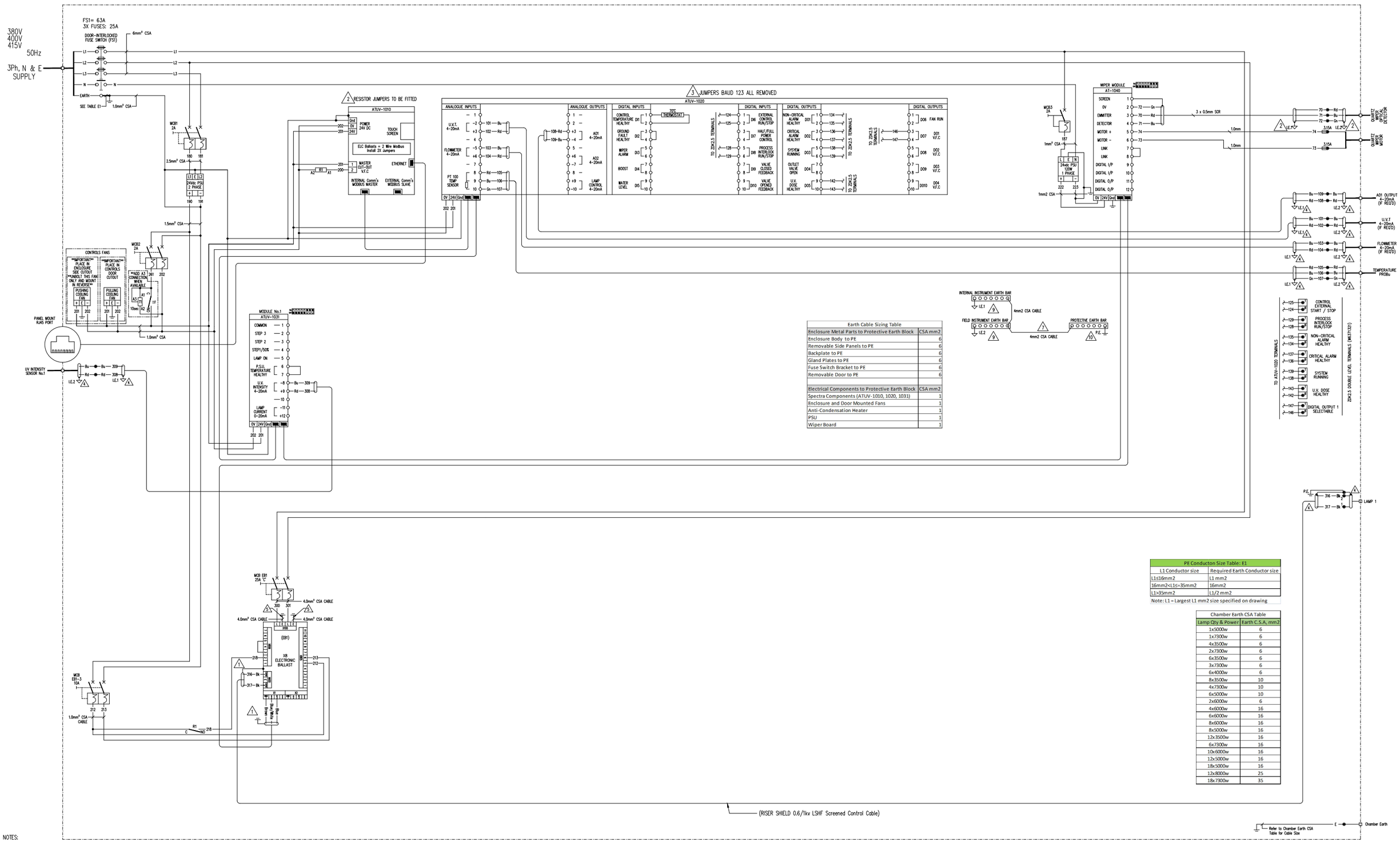

Earth Cable Sizing Table	
Enclosure Metal Parts to Protective Earth Block	CSA mm2
Enclosure Body to PE	6
Removable Side Panels to PE	6
Backplate to PE	6
Gland Plates to PE	6
Fuse Switch Bracket to PE	6
Removable Door to PE	6
Electrical Components to Protective Earth Block	CSA mm2
Spectra Components (ATUV-1010, 1020, 1031)	1
Enclosure and Door Mounted Fans	1
Anti-Condensation Heater	1
PSU	1
Wiper Board	1

PE Conducton Size Table: E1	
L1 Conductor size	Required Earth Conductor size
L1≤16mm2	L1 mm2
16mm2<L1≤35mm2	16mm2
L1>35mm2	L1/2 mm2

Note: L1 = Largest L1 mm2 size specified on drawing

Chamber Earth CSA Table	
Lamp Qty & Power	Earth C.S.A. mm2
1x5000w	6
1x7300w	6
4x3500w	6
2x7300w	6
6x3500w	6
3x7300w	6
6x4000w	6
8x3500w	10
4x7300w	10
6x5000w	10
2x6000w	6
4x6000w	16
6x6000w	16
8x6000w	16
8x5000w	16
12x3500w	16
6x7300w	16
10x6000w	16
12x5000w	16
18x5000w	16
12x8000w	25
18x7300w	35

NOTES:

1. SCREEN TO BALLAST CHASSIS
2. RESISTOR JUMPERS TO BE FITTED
3. JUMPERS BAUD 123 ALL REMOVED
4. MAINTAIN SHORT TAIL CUTBACK LENGTHS
5. ENSURE SEPERATE EARTH CABLES ARE RAN TO EARTH FROM X8 BALLAST
6. ALL CAT-5e DATA CABLES TO BE SHIELDED TYPE
7. INSTRUMENT EARTH BONDED TO PROTECTIVE EARTH INSIDE PANEL
8. WHERE REQ'D SERIES LAMPS, CREATE LINK USING WIRE SECTION TAKEN FROM LAMP CABLE. DO NOT USE PUSH-IN COMMONING TERMINAL LINKS.
9. USE PLASTIC PILLERS FOR INSTRUMENT EARTH BARS.
10. USE METAL PILLERS FOR PROTECTIVE EARTH BARS.

REV	DATE	DESCRIPTION	DRN.	CHK.	APP.
7	08/03/2018	Chamber Earth Cable CSA Updated	M.S	J.E	M.M
8	17/07/2018	Wiper Module Updated to AT-1040	M.S	J.E	M.M
9	16/11/2018	PE Conductor Size Table: E1 Added	M.S	J.E	M.M
10	14/03/2019	Wiper Motor Conductors 73 & 74 Swapped	M.S	J.E	M.M
5	15/03/2016	1-4 Ballast Schematic Layout Update	M.S	J.W	M.M
6	10/11/2016	Earthing Details Standardised	M.S	J.W	M.M

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CLIENT

TITLE: UV DISINFECTION UNIT CONTROL PANEL ELECTRICAL SCHEMATIC

DRAWING No: ES_1X5000_903233_10E1_1