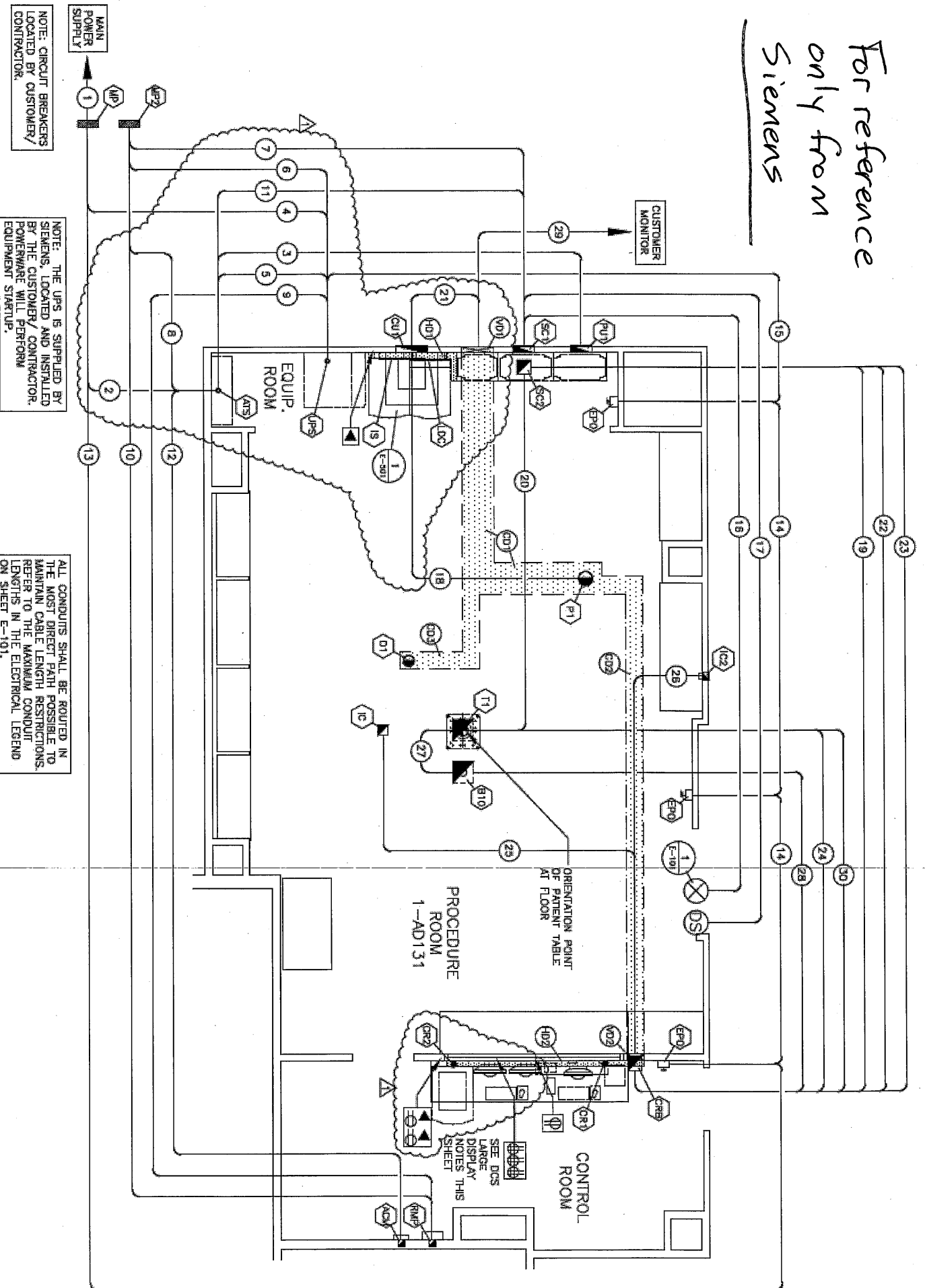


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Siemens



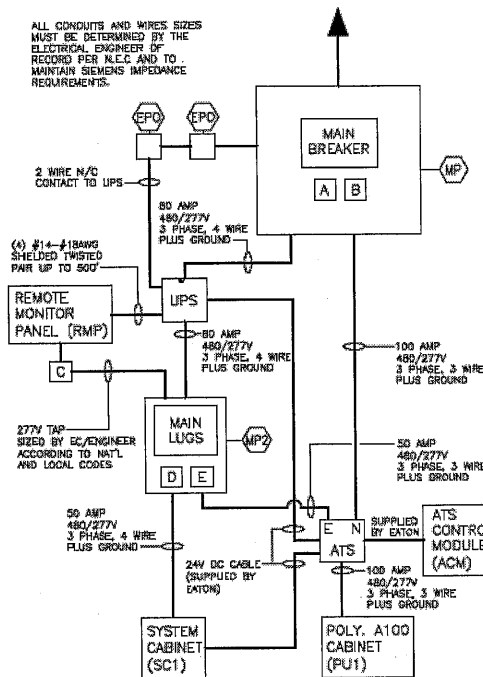
ELECTRICAL RACEWAY PLAN

SCALE: 1/4" = 1'-0"

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POWER SCHEDULE

ALL CONDUITS AND WIRES SIZES
MUST BE DETERMINED BY THE
ELECTRICAL ENGINEER OF
RECORD PER N.E.C. AND TO
MAINTAIN SIEMENS IMPEDANCE
REQUIREMENTS.



ITEM	QTY	DESCRIPTION				
MP	1	MAIN PANEL WITH MAIN BREAKER, FLUSH OR SURFACE MOUNTED. MAIN BREAKER MUST HAVE TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED THE MAIN BREAKER TRIPS.				
		MAIN BREAKER AMPS: 125				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480/277Y	3	1	1	5 (NOTE 1)
A	1	BREAKER AMPS: 100 (FOR NORMAL SIDE OF ATS)				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480/277Y	3	0	1	4 (NOTE 1)
B	1	BREAKER AMPS: 80 (FOR UPS)				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480/277Y	3	1	1	5 (NOTE 1)
MP2	1	MAIN PANEL WITH MAIN LUGS, FLUSH OR SURFACE MOUNTED.				
		MAIN LUG AMPS: 80 (MINIMUM)				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480/277Y	3	1	1	5 (NOTE 1)
C	1	277V TO 120V STEP DOWN TRANSFORMER (FOR RMP)				
D	1	ENCLOSURE AMPS: 50 (FOR SC1)				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480/277Y	3	1	1	5 (NOTE 1)
E	1	ENCLOSURE AMPS: 50 (FOR EMERGENCY SIDE OF ATS)				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480/277Y	3	0	1	4 (NOTE 1)

1) ALL WIRES MUST BE SAME SIZE.

EPO	VARIES	<p>EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER THAT PREVENTS ACCIDENTAL ACTIVATION OF THE EPO BUTTON. THE EPO MUST BE OF FAIL-SAFE DESIGN. THE CONTROL CIRCUIT FOR THE EPOs MUST HAVE AN ENERGY STORAGE SOURCE SO THAT THE CONTROL CIRCUIT NEVER LOSES POWER. ALL EPOs ARE TO BE LATCHING TYPE AND MUST BE RESET BEFORE MAIN BREAKER CAN BE RESET.</p> <p>IF ANY OPTIONAL UPS EQUIPMENT IS PROVIDED BY SIEMENS, THE CUSTOMER/CONTRACTOR SHALL PROVIDE AN ADDITIONAL CONTACT IN EACH EPO AND PROVIDE SEPARATE WIRING FOR AN ADDITIONAL EPO CIRCUIT AS REQUIRED. PLEASE COORDINATE THE TYPE OF CONTACT REQUIRED FOR THE UPS CIRCUIT WITH SIEMENS PROJECT MANAGER.</p> <p>THE EPOs MUST BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR ACCORDING TO NATIONAL ELECTRICAL CODE, STATE AND LOCAL REGULATIONS. MEASURES SHOULD BE TAKEN TO DESIGN THE CIRCUIT IN SUCH A WAY THAT IT WILL ALWAYS WORK WHEN THE MEDICAL EQUIPMENT IS POWERED. THE CUSTOMER IS SOLELY RESPONSIBLE FOR THE IMPLEMENTATION OF THE EPOs AND THEIR ASSOCIATED CIRCUITS AND MUST MAKE THE FINAL DETERMINATION CONSIDERING ALL SITE CONDITIONS AND REGULATORY FACTORS.</p>
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ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

For reference only CONDUIT LEGEND from Siemens

SYM	SIZE	DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	REMARKS
①	EC TO SIZE	CONDUIT FROM PANEL TO "MP"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
②	EC TO SIZE	CONDUIT FROM "MP" TO "ATS"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
③	EC TO SIZE	CONDUIT FROM "ATS" TO "PU1"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
④	EC TO SIZE	CONDUIT FROM "MP" TO "UPS"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
⑤	1/2"ø	CONDUIT FROM "UPS" TO "ATS"	MAX. CONDUIT LENGTH 32'
⑥	EC TO SIZE	CONDUIT FROM "UPS" TO "MP2"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
⑦	EC TO SIZE	CONDUIT FROM "MP2" TO "SC1"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
⑧	EC TO SIZE	CONDUIT FROM "MP2" TO "ATS"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
⑨	EC TO SIZE	CONDUIT FROM "UPS" TO "RMP"	SEE "POWER SCHEDULE" SHEET E-501
⑩	EC TO SIZE	CONDUIT FROM "MP2" TO "RMP" VIA STEP DOWN XFMR "C"	SEE "POWER SCHEDULE" SHEET E-501
⑪	1/2"ø	CONDUIT FROM "ATS" TO "SC1"	MAX. CONDUIT LENGTH 65'
⑫	1"ø	CONDUIT FROM "ATS" TO "ACM"	MAX. CONDUIT LENGTH 98'
⑬	EC TO SIZE	CONDUIT FROM "MP" TO "EPO"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
⑭	EC TO SIZE	CONDUIT FROM "EPO" TO "EPO"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
⑮	EC TO SIZE	CONDUIT FROM "UPS" TO "EPO"	SEE DETAIL "POWER SCHEDULE" SHEET E-501
⑯	EC TO SIZE	CONDUIT FROM "SC1" TO "WL"	WARNING LIGHT
⑰	EC TO SIZE	CONDUIT FROM "SC1" TO "DS"	DOOR SWITCH
⑱	2 1/2"ø	CONDUIT FROM "P1" TO "CU1" (P1 LEFT HAND SIDE)	MAX. CONDUIT LENGTH 77'
⑲	(2) 3"ø	CONDUITS FROM "SC2" (SC1) TO "CRB" (CR1)	MAX. CONDUIT LENGTH 53'
⑳	(2) 3"ø	CONDUITS FROM "SC2" TO "T1" (ONLY WITH OR TABLE) UNDER FLOOR	MAX. CONDUIT LENGTH 37'
㉑	2"ø	CONDUIT FROM "VD1" (SC1) TO "CU1"	MAX. CONDUIT LENGTH 82'
㉒	3"ø	CONDUIT FROM "SC2" (IS) TO "CRB" (CR1) (ACE CABLE SET IN EQUIPMENT ROOM)	MAX. CONDUIT LENGTH 51'
㉓	2"ø	CONDUIT FROM "SC2" (IS) TO "CRB" (CR1) (ACE CABLE SET IN EQUIPMENT ROOM)	MAX. CONDUIT LENGTH 51'
㉔	3"ø	CONDUIT FROM "CRB" TO "T1" (VOLCAND S51 CABLE SET)	MAX. CONDUIT LENGTH 95'
㉕	3/4"ø	CONDUIT FROM "VD2" (CR1) TO "IC" (INTERCOM)	MAX. CONDUIT LENGTH 68'
㉖	3/4"ø	CONDUIT FROM "VD2" (CR1) TO "IC2" (INTERCOM)	MAX. CONDUIT LENGTH 68'
㉗	3"ø	CONDUIT FROM "T1" TO "B10" UNDER FLOOR	
㉘	3"ø	CONDUIT FROM "CRB" TO "B10" UNDER FLOOR (CUSTOMER PATIENT MONITORING)	
㉙	2"ø	CONDUIT FROM "VD1" (IS) TO "CUSTOMER MONITOR" (LIVE+REF VIDEO INTERFACE TO OEM)	MAX. CONDUIT LENGTH 94'
㉚	2"ø	CONDUIT FROM "CRB" (CR2) TO "T1" UNDER FLOOR	MAX. CONDUIT LENGTH 76'

GROUNDING NOTES

- EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:
- 1) SIZED EQUIVALENT TO THE PHASE CONDUCTORS (FULL SIZED GROUND).
 - 2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL, FEEDING THE SIEMENS EQUIPMENT.
 - 3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS.
 - 4) CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH.
 - 5) BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS.
 - 6) MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION.
 - 7) AS A NOTE, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE $\leq 500\text{mA}$ DURING OPERATION OF THE IMAGING EQUIPMENT.
 - 8) THERE MAY BE SOME APPLICATIONS WHICH REQUIRE AN ISOLATED GROUND AS PER NEC 250-98B.

POWER REQUIREMENTS

POLYDORCS-M / POLYDORCS AND GENERATOR (GUT):
480 VOLTS, 3-PHASE, 182 KVA, 100 AMPS, 60 Hz
SYSTEM CONTROL CABINET (SC1):
480 VOLTS, 3-PHASE, 8.5 KVA, 30 AMPS, 60 Hz

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE
IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

For reference only
from Siemens

CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
PANEL	1	MP	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP	2	ATS	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
ATS	3	PUI	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP	4	UPS	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
UPS	5	ATS	24V DC CABLE PROVIDED BY EXTON	SEE DETAIL "POWER SCHEDULE" SHEET E-501
UPS	6	MP2	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP2	7	SC1	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP2	8	ATS	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
UPS	9	RMP	4#14-18 (SHIELDED TWISTED PAIR) UP TO 500'	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP2	10	RMP	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
ATS	11	SC1	24V DC CABLE PROVIDED BY EXTON	SEE DETAIL "POWER SCHEDULE" SHEET E-501
ATS	12	ADM	SIGNAL CABLE PROVIDED BY EXTON	SEE DETAIL "POWER SCHEDULE" SHEET E-501
MP	13	EPO	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
EPO	14	EPO	4#12, PLUS GROUND	SEE DETAIL "POWER SCHEDULE" SHEET E-501
UPS	15	EPO	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER SCHEDULE" SHEET E-501
SC1	16	WL	14-18 AWG	SEE DETAIL "POWER SCHEDULE" SHEET E-501
SC1	17	DS	3#12, PLUS GROUND	SEE DETAIL "POWER SCHEDULE" SHEET E-501

SIEMENS SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
P1	CD1.V01.H01	PUI1	P1 LEFT HAND SIDE	MAXIMUM LENGTH 41'
P1	CD1.V01.H01	PUI1	(2) HIGH VOLTAGE CABLES P1 LEFT HAND SIDE	MAXIMUM LENGTH 41'
P1	CD1.V01.H01	SC1	P1 LEFT HAND SIDE	MAXIMUM LENGTH 37'
P1	18	CU1	MINIMUM BENDING RADIUS 2" P1 LEFT HAND SIDE	MAXIMUM LENGTH 77'
SC1	19	CR1	FOR CONTROL ROOM OPTIONS (CONTROL, MODULES, FOOT SWITCH, DISPLAY, ETC.)	MAXIMUM LENGTH 82'
SC1	SC2.20	T1	NOT WITH OR TABLE	MAXIMUM LENGTH 45'
SC1	SC1	SC2	ONLY WITH OR TABLE	MAXIMUM LENGTH 8'
SC1	HD1.V01.21	CU1		MAXIMUM LENGTH 98'
SC1	ROUTE IN CABINETS BASE	PUI1		MAXIMUM LENGTH 19'
SC1	HD1	IS	ACE CABLE SET IN EQUIPMENT ROOM	MAXIMUM LENGTH 32'
SC1	HD1.V01.CD1.C03	D1	USE WITH ANY DCS	MAXIMUM LENGTH 62'
IS	HD1.SC2.22.CRB.H02	CR1	ACE CABLE SET IN EQUIPMENT ROOM	MAXIMUM LENGTH 65'
IS	HD1.SC2.23.CRB.H02	CR1	ACE CABLE SET IN EQUIPMENT ROOM	MAXIMUM LENGTH 65'
LDC	HD1.V01.CD1.C03	D1	BUS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 82'
LDC	HD1	SC1	BUS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 57'
LDC	HD1	IS	BUS LARGE DISPLAY (STANDARD CABLE)	MAXIMUM LENGTH 8'
IS	HD1.V01.CD1.C03	D1	DCS LARGE DISPLAY (1D ADDITIONAL DISPLAY)	MAXIMUM LENGTH 86'
CR8	24	T1	VOLCANO MDS (VOLCANO SS1 CABLE SET)	MAXIMUM LENGTH 98'
CR1	HD2.V02.26	IC	INTERCOM PROCEDURE ROOM MICROPHONE	MAXIMUM LENGTH 82'
T1	27	B10	INTERCOM PROCEDURE ROOM LOUSPEAKER	MAXIMUM LENGTH 82'
CR8	28	B10	CUSTOMER PATIENT MONITORING, ETC.	
IS	HD1.V01.29	CUSTOMER	LIVE-HET VIDEO INTERFACE TO OEM MONITOR	MAXIMUM LENGTH 110'
CR2	HD2.V02.C02.CD1.C03	D1		MAXIMUM LENGTH 121'
CR2	HD2.V02.C02.CD1.V01.H01	SC1		MAXIMUM LENGTH 88'
CR2	HD2.CRB.30	T1		MAXIMUM LENGTH 88'
CR2	HD2	SENSIS C8	CONDUCTED HOSE	MAXIMUM LENGTH 26'
CR2	HD2	SENSIS LP		POWER CABLE 5'