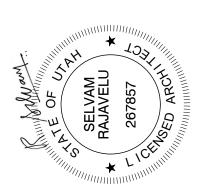


NJRA Architects, Inc. 5272 S. College Drive, Suite 104 Murray, Utah 84123 801.364.9259

www.njraarchitects.com



PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION. ) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THI PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER. POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE FOUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE 'WYF' SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE. 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SÍEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING. ) RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE. CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX. FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE IAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE. PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIRMENTS AND BUILDING STRCTURE. THOSE THAT ARE NOT INDICATED OR INTERFER WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. 6) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F), SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.

**ELECTRICAL NOTES** 

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS

APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES.

CONDUIT LENGTH CALCULATIONS IF SITE-SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED

VALUES, THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE

) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR

AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN

THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE

SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT

35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR

SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS. ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:

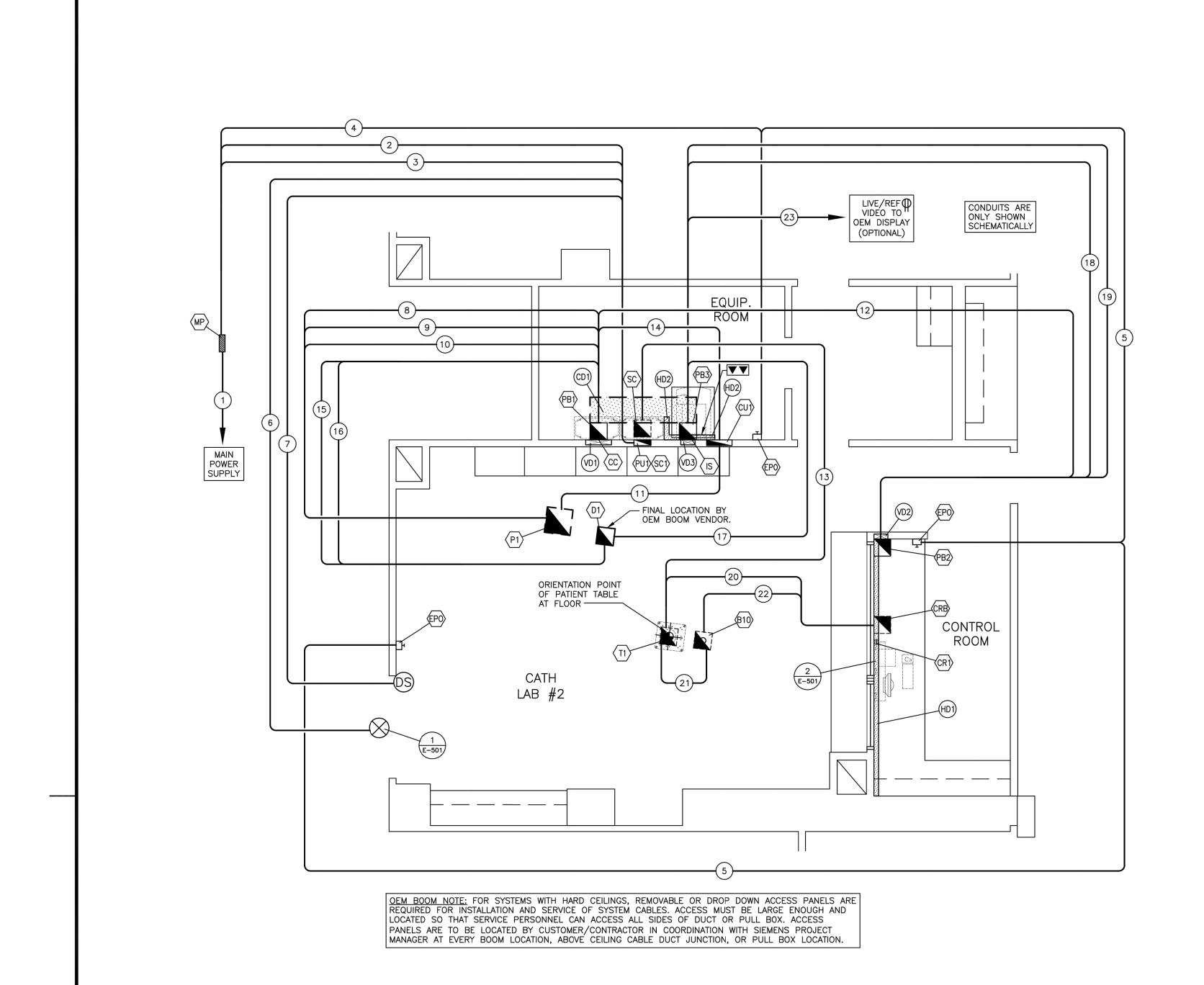
**SIEMENS** 

NJRA Project # Construction Documents

alt

19205.00 July 15, 2020

Siemens Equipment-Electrical



ELECTRICAL RACEWAY PLAN

ALL MAY NOT APPLY CIRCUIT BREAKER BY CUSTOMER/CONTRACTOR OPENING IN RACEWAY OR TRENCHDUCT PULLBOX IN (FLOOR/WALL/CEILING) OPENING IN ACCESS FLOORING WARNING LIGHT (X-RAY ON) DOOR SAFETY SWITCH (EPO) EMERGENCY POWER OFF BUTTON TRENCHDUCT EEE EE CEILING DUCT UNDER FLOOR DUCT SURFACE DUCT VERTICAL DUCT

110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET

ATTENTION:

 $\Longrightarrow$ 

**SYMBOLS** 

ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER). 110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET

CEILING HEIGHT REQUIREMENT 8 FT. - 11 IN.

R-101R(A) VERSION DATED 02/29/20 APPROVED BY CUSTOMER FOR FINALS DATE DESCRIPTION

INTERMOUNTAIN MEDICAL CENTER

THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW. ALL RIGHTS ARE RESERVED. SCALE: REF. #: CPQ-133078

(801) 209-6582

CATH LAB #2 - ARTIS Q.ZEN CEILING PROJECT #: 03/08/20

2000965 DRAWN BY:

M. GONZALE

SCALE: 1/4" = 1'-0

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION

PHYSICIST TO SPECIFY RADIATION PROTECTION.

SYM

3"ø

AS REQUIRED

4"ø

AS REQUIRED

AS REQUIRED

AS REQUIRED

AS REQUIRED

EC TO SIZE

2"ø

(2) 3"ø

2 1/2"ø

(2) 3**"**ø

3"ø

2"ø

1"ø

2 1/2"ø

2"ø

3"ø

2"ø

3"ø

3"ø

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION

-ISSUE BLOCK-

OJECT MANAGER: CHRISTOPHER THOMAS

VERTICAL DUCTS - 12'-0"

FLOOR PENETRATIONS - 3'-0"

AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. - THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED

DOCUMENTS FOR REFERENCE.

ELECTRICAL LEGEND

DESCRIPTION

SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR

PROVIDE 4" OCONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR. PROVIDE STAINLESS STEEL

(EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER.

(VERIFY EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM

COVER. FOR A SINGLE CONDUIT CONNECTION TO THIS BOX, PROVIDE A 3" CONDUIT THRU

FLOOR. FOR MULTIPLE CONDUIT CONNECTIONS, PROVIDE (2) 4" CONDUITS THRU FLOOR. E.C. TO

WITH REMOVABLE FRONT COVER AND (1) 4"0 BUSHING IN CENTER OF REMOVABLE COVER FOR

RACEWAY. THIS BOX MUST BE SIZED SUCH THAT A 8" X 6" X 3" SIEMENS POWER DISTRIBUTION

BREAKERS WHEN IN OFF POSITION. EPO'S MUST BE RECESSED OR SHIELDED. FINAL LOCATION

MAIN PANEL WITH MAIN BREAKER. LOCATION DETERMINED BY CUSTOMER/CONTRACTOR. SEE

(VERIFY EXISTING) ABOVE FINISHED CEILING PULL BOXES FOR CONDUIT TERMINATION INTO

WITH REMOVABLE FRONT COVER WITH 4"Ø BUSHED OPENING AT BOTTOM OF COVER.

WITH REMOVABLE FRONT COVER WITH 4"Ø BUSHED OPENING AT BOTTOM OF COVER.

(VERIFY EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM

(EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER.

PROVIDE 4" OCONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR

3 1/2" X 18" CEILING DUCT MOUNTED ABOVE FINISHED CEILING. PROVIDE DUCT WITH REMOVABLE TOP COVER CEILING DUCT

AND OPENINGS AS SPECIFIED. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS

WITH METAL DIVIDERS. CONNECT TO "PB1" AND "PB3" AS SHOWN. THIS CEILING DUCT WILL BE

3 1/2" X 10" (EXISTING) HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH HORIZONTAL WALL DUCT

REMOVABLE FRONT COVER. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH

REMOVABLE FRONT COVER. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH

LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX "PB1" (SIZED BY

E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT

3 1/2" X 10" (VERIFY EXISTING) VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR VERTICAL DUCT

LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX "PB2" (SIZED BY

E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT

3 1/2" X 10" (VERIFY EXISTING) VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR VERTICAL DUCT

LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX "PB3" (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT

3 1/2" X 18" (VERIFY EXISTING) VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR VERTICAL DUCT

COVER. PROVIDE 6" CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT

(VERIFY EXISTING) BUSHED OPENING IN VERTICAL DUCT "VD" COVER AT FLOOR LINE.

(VERIFY EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED WALL AT 48" AFF. PROVIDE BOX COOLING UNIT

3"

BUSHED OPENING. NOTE: IF LOCAL CODES REQUIRE COMPLETE CABLE CONTAINMENT IN (live+ref)

(EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED CEILING WITH REMOVABLE BOTTOM COVER | C-ARM

(VERIFY EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX | GENERATOR

(VERIFY EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX SYSTEM CABINET

(NEW) PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH BOOM DVI 2xBWD-19D

EMERGENCY OFF BUTTONS FOR CIRCUIT BREAKERS. EPO'S MUST PREVENT RESETTING OF CIRCUIT EMERGENCY POWER OFF

(EXISTING) BUSHED OPENING IN VERTICAL DUCT "VD1" COVER AT FLOOR LINE.

WATERPROOF PLATE ON TOP OF CORED OPENING IN FLOOR.

DESIGN TRANSITION TO SURFACE FLOOR DUCT AS REQUIRED.

CABLE EXIT. SEE PLAN FOR LOCATION.

DETERMINED BY CUSTOMER

WITH 6"Ø BUSHED OPENING.

USED FOR EXTRA CABLE STORAGE.

INTO (3) SECTIONS WITH METAL DIVIDERS.

INTO (3) SECTIONS WITH METAL DIVIDERS.

INTO (3) SECTIONS WITH METAL DIVIDERS.

(EXISTING) CONDUIT FROM "P1" TO "PB1" (PU1)

(EXISTING) CONDUITS FROM "P1" TO "PB1" (PU1)

(EXISTING) CONDUIT FROM "P1" TO "PB1" (SC1)

(EXISTING) CONDUIT FROM "PB1" (SC1) TO "CU1"

(EXISTING) CONDUIT FROM "PB3" (IS) TO "PB2" (CR1)

(EXISTING) CONDUIT FROM "PB3" (IS) TO "PB2" (CR1)

(EXISTING) CONDUIT FROM "T1" TO "B10" UNDER FLOOR

(NEW) CONDUIT FROM "PB1" (SC1) TO "D1"

(NEW) CONDUIT FROM "PB1" (SC1) TO "D1"

(NEW) CONDUIT FROM "PB3" (IS) TO "D1"

(EXISTING) CONDUIT FROM "P1" TO "CU1" FOR LIQUID COOLING HOSES

(EXISTING) CONDUIT FROM "SC" (SC1) TO "T1" UNDER FLOOR

(EXISTING) CONDUITS FROM "PB1" (SC1) TO "PB2" (CR1) UNDER FLOOR

(NEW) CONDUIT FROM "CRB" TO "T1" UNDER FLOOR (VOLCANO S51 CABLE SET)

(EXISTING) CONDUIT FROM "CRB" TO "B10" UNDER FLOOR (CUSTOMER PATIENT MONITORING)

(NEW) CONDUIT FROM "PB3" (IS) TO "CUSTOMER MONITOR" (LIVE+REF VIDEO TO OEM OPTION) MAX. CONDUIT LENGTH 86'

CONDUIT FROM PANEL TO "MP"

CONDUIT FROM "MP" TO "PU1"

CONDUIT FROM "MP" TO "SC1"

CONDUIT FROM "MP" TO "EPO"

CONDUIT FROM "EPO" TO "EPO"

CONDUIT FROM "SC1" TO "WL"

CONDUIT FROM "SC1" TO "DS"

METAL DIVIDERS. CONNECT TO VERTICAL DUCT "VD2" AS SHOWN.

3 1/2" X 10" HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH

METAL DIVIDERS. CONNECT TO VERTICAL DUCT "VD3" AS SHOWN.

"POWER SCHEDULE"

FLOOR LINE.

BOX CAN BE INSTALLED INSIDE THIS PULL BOX.

VERTICAL DUCT. SEE PLAN FOR LOCATION.

(EXISTING) BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".

REMARKS

CONTROL ROOM DISTRIBUTOR

TABLE ACCESSORIES

UNDER-FLOOR BOX

IMAGE SYSTEM

BREAKER PANEL

HORIZONTAL WALL DUCT

SEE "POWER SCHEDULE"

SEE "POWER SCHEDULE"

SEE "POWER SCHEDULE"

SEE "POWER SCHEDULE"

MAX. CONDUIT LENGTH 25'

MAX. CONDUIT LENGTH 25'

MAX. CONDUIT LENGTH 22'

MAX. CONDUIT LENGTH 67'

MAX. CONDUIT LENGTH 32'

MAX. CONDUIT LENGTH 35'

MAX. CONDUIT LENGTH 78'

MAX. CONDUIT LENGTH 78'

MAX. CONDUIT LENGTH 42'

MAX. CONDUIT LENGTH 55'

MAX. CONDUIT LENGTH 33'

MAX. CONDUIT LENGTH 33'

MAX. CONDUIT LENGTH 68'

PULL BOXES

CABLE INLET



5272 S. College Drive, Suite 104 Murray, Utah 84123 801.364.9259 www.njraarchitects.com



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ELECTRICAL DIMENSION PLAN

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

CEILING HEIGHT

REQUIREMENT

8 FT. – 11 IN.

PROJECT MANAGER: CHRISTOPHER THOMAS
TEL: (801) 209-6582
VMAIL: EXT:
FAX:
EMAIL: christopher.thomas@siemens-healthineers.com

INTERMOUNTAIN MEDICAL CENTER
5121 COTTONWOOD STREET, MURRAY, UT. 84107
CATH LAB #2 - ARTIS Q.ZEN CEILING

THE USE OR REPRODUCTION OF PROJECT #: SHEET:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED
AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN
MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED

AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN
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- THIS DRAWING ARE FROM FINISHED SURFACES.

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- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED

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- THIS DRAWING

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

SCALE: NOTED

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SCALE: NOTED

REF. #: 03/08/20

DATE: 03/08/20

PROJECT #:

2000965

BRAWN BY: M. GONZALEZ
M. GONZALEZ

DATE: 03/08/20

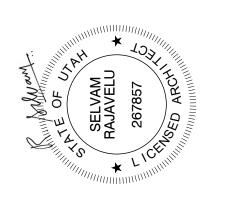
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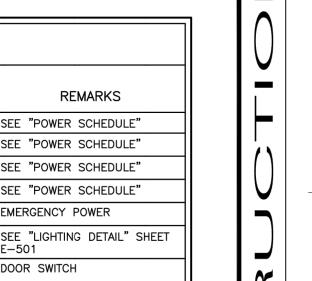
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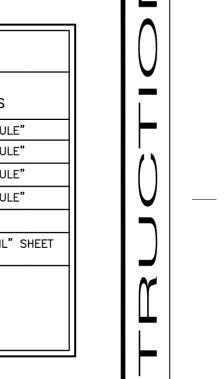
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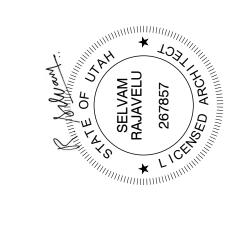


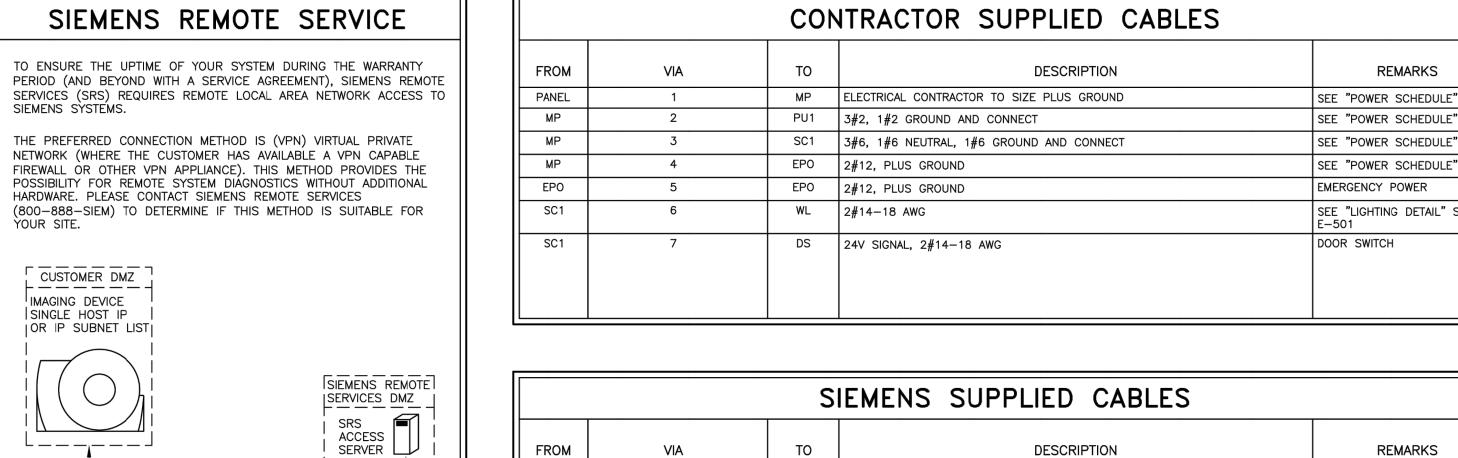
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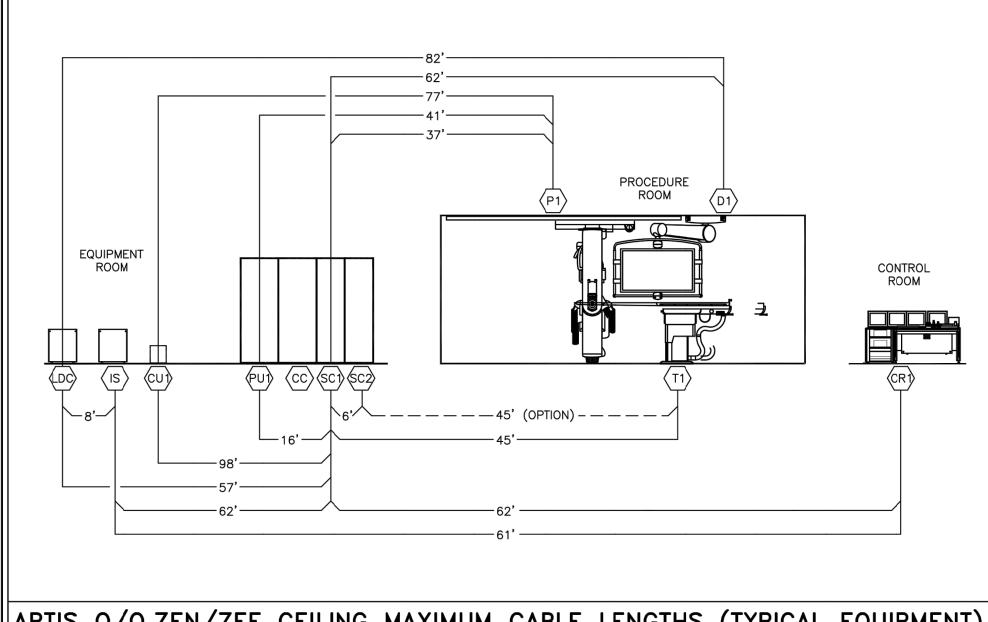








FROM	VIA	то	DESCRIPTION	REMARKS
P1	8, PB1, VD1	PU1	P1 LEFT SIDE	MAXIMUM LENGTH 41'
P1	9, PB1, VD1	PU1	(2) HIGH VOLTAGE CABLES P1 LEFT SIDE	MAXIMUM LENGTH 41'
P1	10, PB1, VD1	SC1	P1 LEFT SIDE	MAXIMUM LENGTH 37'
P1	11	CU1	FOR LIQUID COOLING HOSES (P1 LEFT SIDE)	MAXIMUM LENGTH 77'
SC1	VD1, PB1, 12, PB2, VD2, HD1	CR1	FOR CONTROL ROOM OPTIONS (CONTROL MODULES, FOOT SWITCH, DISPLAY, ECC)	MAXIMUM LENGTH 62'
SC1	SC, 13	T1	NOT WITH OR TABLE	MAXIMUM LENGTH 45'
SC1	VD1, PB1, 14	CU1		MAXIMUM LENGTH 98'
SC1	BETWEEN CABINETS	PU1		MAXIMUM LENGTH 16'
SC1	HD2	IS	62' CABLES SELECTABLE ON FACTORY CHECKLIST	MAXIMUM LENGTH 28'
SC1	VD1, PB1, 15	D1	OEM DISPLAY CONNECTION	MAXIMUM LENGTH 98'
SC1	VD1, PB1, 16	D1	OEM DISPLAY CONNECTION	MAXIMUM LENGTH 62'
IS	HD2, VD3, PB3, 17	D1	OEM DISPLAY CONNECTION	MAXIMUM LENGTH 75'
IS	HD2, VD3, PB3, 18, PB2, VD2, HD1	CR1		MAXIMUM LENGTH 61'
IS	HD2, VD3, PB3, 19, PB2, VD2, HD1	CR1		MAXIMUM LENGTH 61'
CRB	20	T1	VOLCANO IVUS (VOLCANO S51 CABLE SET)	MAXIMUM LENGTH 98'
T1	21	B10		
CRB	22	B10	CUSTOMER PATIENT MONITORING, ETC.	
IS	HD2, VD3, PB3, 23	CUSTOMER MONITOR	LIVE+REF VIDEO INTERFACE TO OEM (OPTION)	MAXIMUM LENGTH 110'



## ARTIS Q/Q.ZEN/ZEE CEILING MAXIMUM CABLE LENGTHS (TYPICAL EQUIPMENT)

POWER R	REQU	IREMENTS			
WIRING SYSTEM:	480Y/277\	V, 3 PHASE, 5-WIRE, 60 HZ.			
MINIMUM POWER SUPPLY:					
IF AN ON-SITE TRANSFORMER VOLTAGE, IT MUST BE OF SU CHARACTERISTICS TO MAINTAIN REQUIREMENTS (TRANSFORMER	FFICIENT N SUPPLY	CAPACITY AND VOLTAGE AND IMPEDANCE			
X-RAY GENERATOR (PU1) MOME RATING: (RADIOGRAPHIC EXPOSU		162 KVA			
X-RAY GENERATOR (PU1) LONG RATING: (FLUOROSCOPY)	-TIME	14 KVA			
SYSTEM CABINET (SC1) LONG- RATING:	TIME	8.5 KVA			
LINE IMPEDANCE		$\leq$ 120 (m $\Omega$ )			
POWER QUAI	LITY PA	RAMETERS			
MAXIMUM LINE VOLTAGE VARIA	TION ±10	% OF SYSTEM VOLTAGE			
PHASE IMBALANCE:	2%				
FREQUENCY VARIATION:	± 1	HZ			
POWER SUPPLY NOTES:  1. INCOMING POWER SUPPLIES BE DEDICATED (BACK TO SOUF ANY OTHER EQUIPMENT SUCH	RCE), ISOL	ATED AND INSULATED FROM			

## GROUNDING NOTES

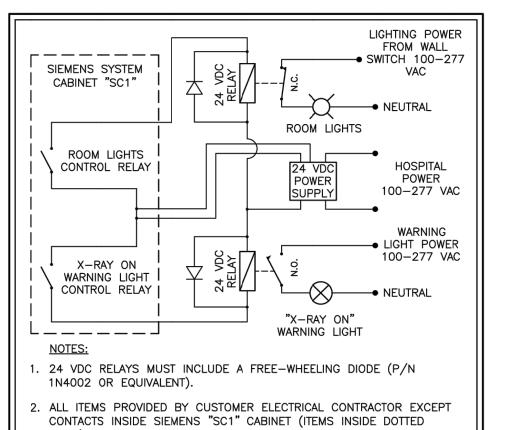
2. SIEMENS HEALTHCARE REQUIRES THAT THE INCOMING POWER MEETS

THE POWER QUALITY REQUIREMENTS.

EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:

1) SIZE GROUNDING WIRE TO SIEMENS EQUIPMENT PER POWER SCHEDULE REQUIREMENTS. 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 NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR. BUT IT IS ACCEPTABLE TO HAVE <500mA DURING OPERATION OF THE IMAGING EQUIPMENT.

TABLE POWER OUTLET SAFETY NOTE: LIFE-SUSTAINING EQUIPMENT MUST NOT BE CONNECTED TO THE TABLE POWER OUTLET (IF INSTALLED) IN THE SIEMENS PATIENT TABLE. POWER WILL BE DISCONNECTED IF EPO BUTTON IS PRESSED. TABLE OUTLET IS 120V, FUSED AT 5A.



- 3. ALL WIRING THAT CONNECTS TO SIEMENS "SC1" CABINET MUST BE 14-18 AWG STRANDED WIRE.
- 4. ONLY 3 WIRES LABELED "24 VDC", "ROOM LIGHTS" AND "X-RAY ON" SHOULD BE SENT TO SIEMENS "SC1" CABINET. 5. 24 VDC RELAYS ARE TO BE SELECTED BY ELECTRICAL CONTRACTOR TO HANDLE THE VOLTAGE AND AMPERAGE OF LIGHTING CURCUIT.
- 6. IF NEEDED, A SWITCH TO BLOCK RADIATION CAN BE INSTALLED IN SERIES WITH THE DOOR CONTACT. \* THE SWITCH (24 VDC / 20 MA) MUST BE PROVIDED ON SITE. \* CONTROL USING +24 V FROM THE SYSTEM CONTROL CABINET \* PLAN THE SWITCH SO THAT UNINTENTIONAL OPERATION IS NOT \* THE SWITCH MUST BE PROVIDED WITH AN APPROPRIATE SYMBOL (OR

WARNING LIGHT/ROOM LIGHT SCHEMATIC LIGHTING DETAIL

_	AXIS IMAGE SYSTEM MOTE CONFIGURATION)	
6'-6"	STANDARD:  LIVE DISPLAY ← 65' (VIA 6 MONITOR  ACE (KEYBOARD AND ← 65' (VIA 6 MOUSE CONNECT TO ACE)  OPTIONS:	
6'-6"	REFERENCE DISPLAY ← 65' (VIA MONITOR	CR1) —
— 6'-6" <b>→</b>	- HAND SWITCH	
— 6'-6" <b>—</b> ►	- CONTROL MODULES	
— 6'-6" <b>→</b>	- ECC	
—13 <b>'</b> ——►	- EMERGENCY STOP	
— 5'-6" <b>→</b>	FOOT SWITCH	
5'-11"	DVD RECORDER ← 65' ← 65	
9'−10"—▶	DVD RECORDER	
CONTROL ROOM DISTRIBUTOR		IMAGE SYSTEM
	NTROL ROOM M CONNECTIONS	SCALE: NONE

NETWORK REQUIREMENT

A GIGABIT NETWORK IS REQUIRED FOR ADEQUATE IMAGE DATA

TRANSFER SPEED BETWEEN THE IMAGER AND 3D RECONSTRUCTION WORKSTATION. WORKFLOW AND CLINICAL NEEDS DEMAND 3D IMAGES

BE AVAILABLE FOR REVIEW BY CLINICAL STAFF IMMEDIATELY UPON

ROUTER

CUSTOMER

ACQUISITION.

FIREWALL

## 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.

									ŔEV. 23
			TEL: (801) 209 VMAIL: FAX:	R: CHRISTOPHER TH -6582 EXT: r.thomas@siemens-		ers.com		SIE	MENS
	INTERMOUNTAIN MEDICAL CENTER 5121 COTTONWOOD STREET, MURRAY, UT. 84107 CATH LAB #2 - ARTIS Q.ZEN CEILING								
$\triangle$	03/08/20	R-101R(A) VERSION DATED 02/29/20 APPROVED BY CUSTOMER FOR FINALS	THIS TITLE BLOCK WITHOUT			ECT #:	0965	SHEET:	<b>5</b> 01
SYM	DATE	DESCRIPTION	ALL RIGHTS A	RE RESERVED.	SHEET 7	OF 8	DRAWN BY: M. GONZALEZ		<b>-</b> UU 1
	-ISSUE BLOCK-		SCALE: AS NOTED	DATE: 03/08/20					
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$\triangle$	03/08/20	R-101r(a) version dated 02/29/20 Approved by customer for finals	THE USE OR RI THIS TITLE E SIEMENS AUTH RESULT IN PRO FULL EXTENT		ECT #:	0965	SHEET:	501	] ∐	
SYM	DATE	DESCRIPTION	ALL RIGHTS A	RE RESERVED.	SHEET 7	0F 8	DRAWN BY: M. GONZALEZ		-3U I	
-ISSUE BLOCK-			SCALE: AS NOTED	REF. #: CPQ-133078	DATE:	03/08/20				J╙

ATTENTION:

POWER SCHEDULE

OPTIONAL TABLE
OUTLET POWER FEED.
CONTACT SIEMENS
PROJECT MANAGER.

4 (NOTE 1)

1 5 (NOTE 1)

CABINET

MAIN PANEL WITH CIRCUIT BREAKERS FLUSH OR SURFACE

VOLTS PHASES NEUTRAL GROUND TOTAL WIRES

VOLTS | PHASES | NEUTRAL | GROUND | TOTAL WIRES

VOLTS PHASES NEUTRAL GROUND TOTAL WIRES

VOLTS PHASES NEUTRAL GROUND TOTAL WIRES

STEP-DOWN SINGLE-PHASE TRANSFORMER WITH PRIMARY AND SECONDARY FUSE PROTECTION FOR TABLE OUTLET POWER,

MAIN CIRCUIT BREAKER EMERGENCY POWER OFF BUTTON

WITH PROTECTIVE COVER THAT PREVENTS ACCIDENTAL

ACTIVATION. THE EPO MUST BE OF FAIL-SAFE DESIGN. ALL EPO'S TO HAVE <u>MECHANICAL LATCHING MECHANISM</u>. EPO MUST BE RESET BEFORE MAIN BREAKER CAN

CONNECTED TO AN ADJACENT FLUSH WALL-MOUNTED 15A,

125VAC UL 943 GFCI WITH BLANK FACE (NO CONTACT OPENINGS OR NEMA CONFIGURATION) WITH LED INDICATION, PUSH-TO-TEST AND PUSH-TO-RESÉT BUTTONS, AND A CLEAR LEXAN HINGED COVER TO AVOID INADVERTENT MANUAL TRIP.

1) PHASE AND NEUTRAL TO BE THE SAME SIZE. GROUND SIZED PER NEC

NOTE: UNLESS OTHERWISE NOTED, ALL BREAKERS WILL BE 80% RATED

RESUME OPERATION. CONTACTS AND WIRING CONFIGURATION TO BE DESIGNED BY ELECTRICAL

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

SOLELY RESPONSIBLE FOR THE IMPLEMENTATION OF THE

EPOs AND THEIR ASSOCIATED CIRCUITS AND MUST MAKE

MEDICAL EQUIPMENT IS POWERED. THE CUSTOMER IS

THE FINAL DETERMINATION CONSIDERING ALL SITE

CONDITIONS AND REGULATORY FACTORS.

ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND

BREAKER AMPS: 15 (FOR STEP-DOWN XFMR "XF1")

750VA, 480V PRIMARY, 120V GROUNDED SECONDARY

480/277Y 3 1 1 5 (NOTE 1)

MAIN BREAKER MUST HAVE TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED, THE MAIN BREAKER TRIPS.

MAIN BREAKER AMPS: 125

BREAKER AMPS: 100 (FOR PU1)

BREAKER AMPS: 30 (FOR SC1)

480/277Y 3

| EPO | VARIES | NOTE 1 - EPO CIRCUIT #1

ENGINEER OF RECORD.

INSTALLED BY CUSTOMER/CONTRACTOR.

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

MAXIMUM WIRE SIZE FOR TERMINAL LUGS IS #3/0 AWG FOR "PU1" CABINET.

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PHYSICIST TO SPECIFY RADIATION PROTECTION.

Equipment-Electrical

alth

NJRA Project #

Construction Documents

ARTIS Q/Q.ZEN/ZEE CEILING

Siemens

19205.00

July 15, 2020



NJRA Architects, Inc. 5272 S. College Drive, Suite 104 Murray, Utah 84123 801.364.9259 www.njraarchitects.com



ENVIRONMENTAL CONDITIONS EXAMINATION AND CONTROL TEMPERATURE RANGE: 59°F-86°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH FLAT PANEL DETECTOR 20% - 75% NON-CONDENSING RELATIVE HUMIDITY: TEMPERATURE RANGE: 50°F-95°F (RECOMMENDED TEMPERATURE 70°F) AXIS IMAGE SYSTEM RELATIVE HUMIDITY: 20%-75% NON CONDENSING MAX. TEMP. GRADIENT: 18° F/HR AIR FLOW VOLUME: 371 ĆFM MAX. NOISE GENERATION: 53 dB(A) 50°F-95°F (RECOMMENDED TEMPERATURE 70°F) TEMPERATURE RANGE: POLYDOROS A100 RELATIVE HUMIDITY: 20%-75% NON CONDENSING GENERATOR MAX. TEMP. GRADIENT: 9° F/HR AIR FLOW VOLUME: 94 ĆFM MAX. NOISE GENERATION: 55 dB(A) SYSTEM CONTROL CABINET TEMPERATURE RANGE: 50°F-95°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH IMAGE INTENSIFIER 59°F-86°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH FLAT PANEL DETECTOR RELATIVE HUMIDITY: 20% - 75% NON-CONDENSING MAX. TEMP. GRADIENT: 9° F/HR AIR FLOW VOLUME: 294 CFM MAX. NOISE GENERATION: 48 dB(A) TEMPERATURE RANGE: 41°F-86°F (RECOMMENDED TEMPERATURE 70°F) KLUVER/LYTRON RELATIVE HUMIDITY: FROST FREE COOLING UNIT AIR FLOW VOLUME: 647 CFM MAX. NOISE GENERATION: 55 dB(A) AT 50 HZ, 59 dB(A) AT 60 HZ STAND WITH FLAT PANEL MAXIMUM TEMPERATURE GRADIENT: 9° F/HR ATMOSPHERIC PRESSURE: DETECTOR 700ĥPa — 1040hPa SHOCKS:

VIBRATIONS:

**HEAT LOADS** 

LEFT SIDE FRONT ASSEMBLY FLUID OUT / DRAIN FLUID IN OUT (VIA FILT' (VIA FILTER) CLEARANCE 7 TOP \*1 FOR AIR INTAKE/EXHAUST \*2 FOR COOLING HOSES NOTE: THIS UNIT IS A SELF-CONTAINED, CLOSED LOOP, TAP WATER-FILLED SYSTEM SERVICED BY SIEMENS. NO OUTSIDE CHILLED WATER SUPPLY IS REQUIRED. PROVIDE 2.5 GALLON SPILLAGE PROTECTION AS REQUIRED MAXIMUM ADMISSIBLE HEIGHT DIFFERENCE AIR INTAKE BETWEEN COOLER AND THE X-RAY TUBE IS +/- 32 FT. PROVIDE HOSE HOLDER FOR EXCESS COOLING HOSE STORAGE. SCALE: 1"=1'-0" TUBE COOLING UNIT

ROJECT MANAGER: CHRISTOPHER THOMAS EL: (801) 209-6582

ALL RIGHTS ARE RESERVED.

SCALE: REF. #: AS NOTED CPQ-133078

R-101R(A) VERSION DATED 02/29/20 APPROVED BY CUSTOMER FOR FINALS

DESCRIPTION

-ISSUE BLOCK-

DATE

MAXIMUM 10G/16MS

MAXIMUM 0.1 G/10-200HZ

SIEMENS

INTERMOUNTAIN MEDICAL CENTER CATH LAB #2 - ARTIS Q.ZEN CEILING PROJECT #: THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

2000965 DRAWN BY:
M. GONZALEZ DATE: 03/08/20

Siemens Equipment-Mechanical

19205.00

July 15, 2020

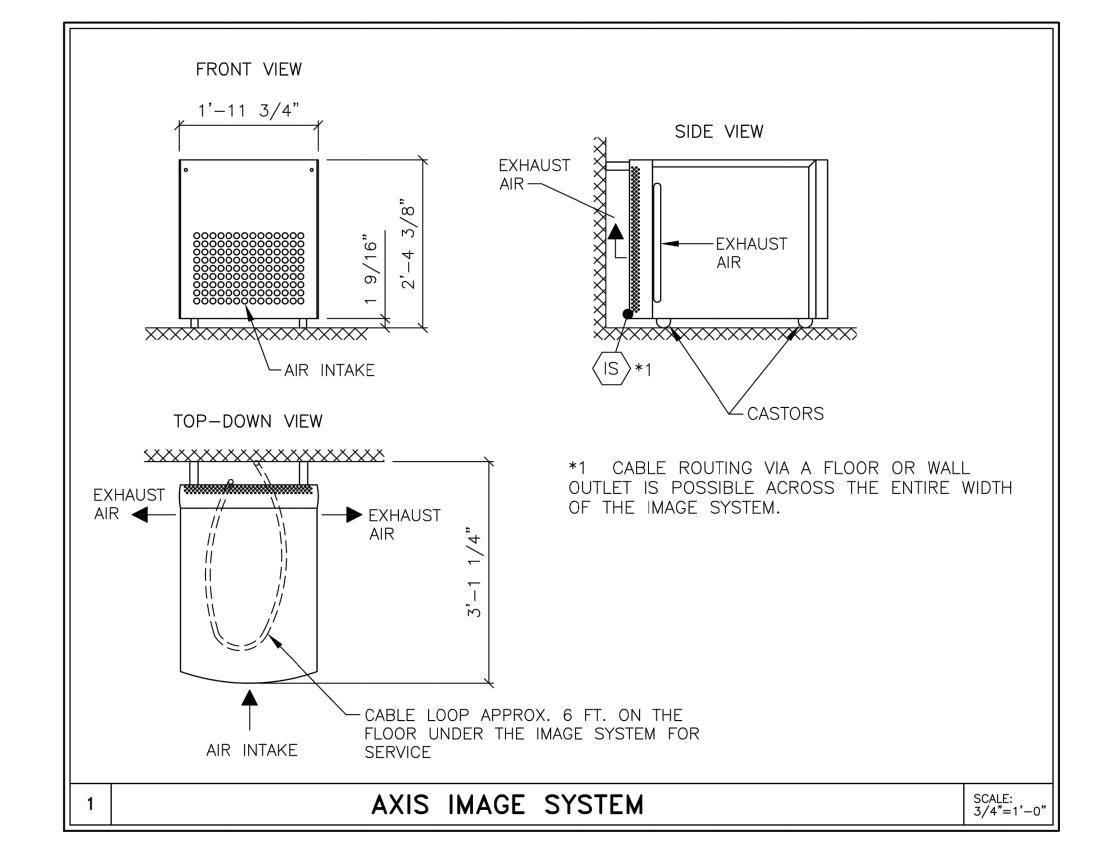
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NJRA Project #

Construction Documents



3

FOR BTU'S OF SEIMENS EQUIPMENT, REFER TO THE EQUIPMENT LEGEND, SHEET A-101.

CEILING HEIGHT REQUIREMENT 8 FT. - 11 IN.

PHYSICIST TO SPECIFY RADIATION PROTECTION.

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