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ADDENDUM

Date Issued:	July 28, 2020
Project:	Intermountain Healthcare **IMC- Cath Lab #2 Remodel** 5121 South Cottonwood Street Murray, Utah 84107
Addendum Number:	1

The Contractors submitting proposals on the above-captioned project shall be governed by the following addendum, changes and explanations to the drawings and specifications and shall submit their bids in accordance therewith.

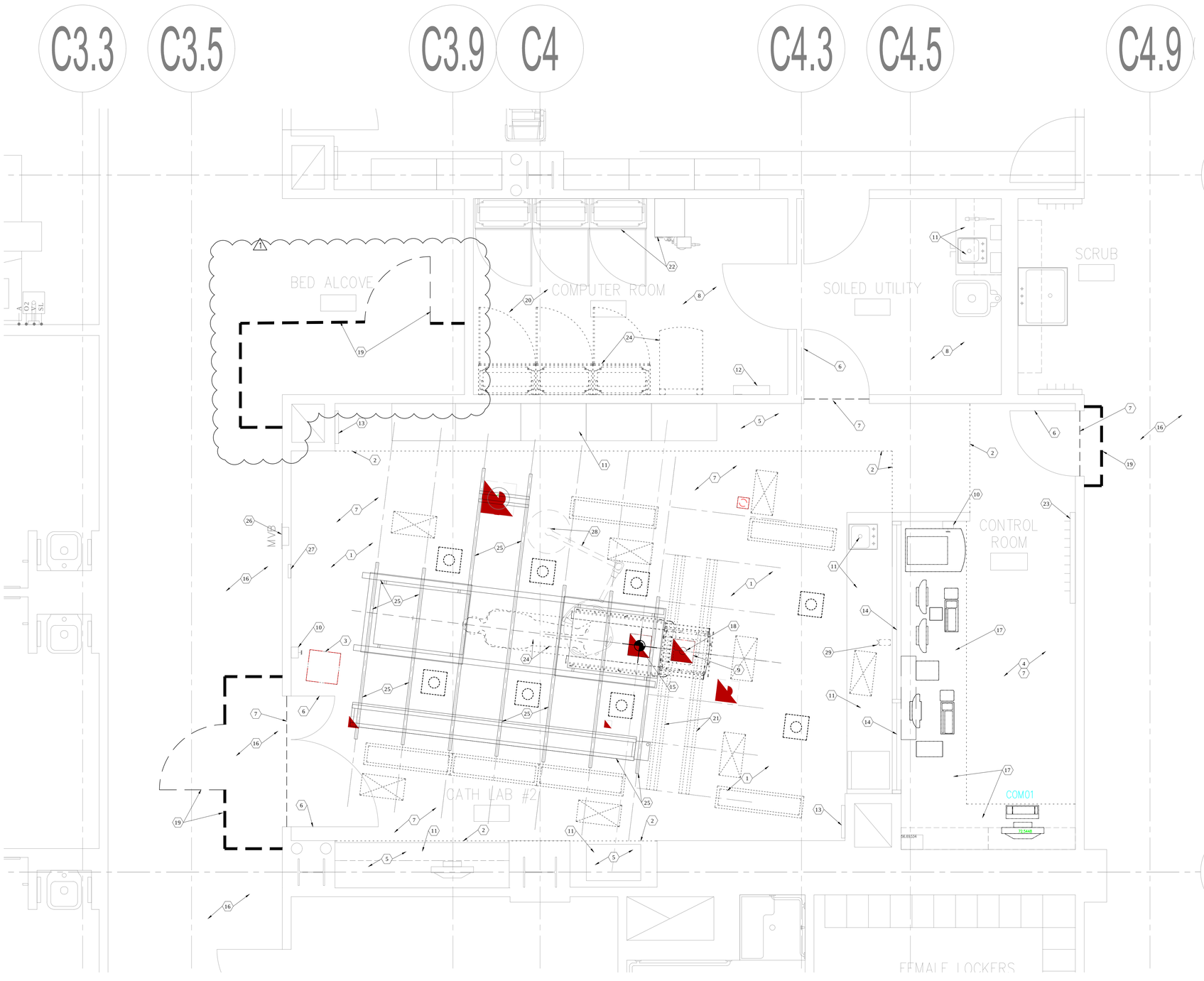
Item Number	General Items Description
1	As discussed at the Pre-bid meeting dated July 20, 2020: Owner intends to complete work for Cath lab #2 first to be followed by Cath lab #9 work. Only one Cath lab shall be down for remodel at a time. Contractor shall plan accordingly in the bid.
2	Contractor to note that the electrical isolation panel for each Cath Lab is to be located outside the labs in the hallway. Contractor shall include cost of dust partition and noise control measures in the hallway.
3	All permit fees shall be paid by the Owner. Do not include in the bid.
4	All Post installed anchors on this project are to be supplied and installed by the contractor per the structural drawings and the equipment supplier recommendations. Contractor shall remove existing epoxy through bolt at the patient table base plate and provide and install new bolts for the new base installation.
5	The building shall remain occupied during the construction and some work will need to be coordinated and scheduled with the Owner off-hours as required.
6	Coordinate all floor penetrations with Mechanical, Plumbing and Electrical drawings. Field verify existing conditions before proceeding with the work. Patch & repair all floor penetrations to match with adjacent existing after demolition.
7	All fire sprinkler heads throughout the project shall be concealed quick action heads. Heads are required to be placed centered on the ceiling tiles where occurs. Field verify all existing conditions before proceeding with the work.
8	Contractor shall coordinate with the Owner to access the occupied space at the floor below to remove portions of ceiling as required per the electrical, mechanical and plumbing drawings for demolition and installation. Patch repair and re-install ceiling to match with adjacent existing at the lower level 1 after all work is completed.
9	Contractor shall re-install owner furnished equipment like glove dispenser, sharp disposal, etc. in the Cath Lab. Coordinate exact location with the Owner before proceeding with the work.
10	Provide in-wall backing for the new equipment in the computer room as required in the Siemens drawings. Remove and reinstall gypsum board as required on the computer room side. finish and paint to match with adjacent existing. See project manual for physicist's report for lead shielded walls. All work at shielded walls are required to be patched and

Item Number	General Items Description
	repaired to original condition to maintain lead shielding. Note that lead shielding exists up to the height of 7'-0" where noted in the physicist's report. Contractor shall field verify existing conditions.
11	Contractor shall follow the direction of Intermountain infection control Nurse to keep the construction area clean per ICRA guidelines. Contractor is required to maintain negative pressure during construction and dust partition shall only be removed after approval from the infection control Nurse.
12	Due to the ongoing Covid 19 pandemic- infection control nurse has required that construction crew will watch for any sign of infection and will promptly notify and keep sick crew members outside the construction area.
13	Owner has performed asbestos test that has come out negative. Test report shall be provided to the contractor by the Owner.
14	Contractor shall completely remove all above ceiling structural supports of the ceiling light boom, monitor boom or med gas column etc. that are called out in the plans to be demolished, unless noted otherwise.
15	Contractor to note that as directed by the Owner one of the ceiling surgical light boom shall remain as noted on sheet A101 with keynote #28. Skytron vendor drawings are showing two new booms A & B on sheet EQ109. However, note that new boom A is removed from the project only boom 'B' shall be required.

Sheet Number	Drawings
Architectural	
A101	Notes have been added to the demolition floor and ceiling plan. See attached revised sheet with revisions shown clouded.
A111	Data rack size has been updated in the new floor plan sheet. See attached revised sheet with revisions shown clouded. Coordinate and verify location of the data rack in the equipment room with the owner's vendor.
Equipment Drawings	
EQ101	See attached revised Siemens Equipment sheet with revisions shown clouded.
EQ102	See attached revised Siemens Equipment sheet with revisions shown clouded.
EQ104	See attached revised Siemens Equipment sheet with revisions shown clouded.
EQ105	See attached revised Siemens Equipment sheet with revisions shown clouded.

Attachments:

Revised Sheet A101, A111, EQ101, EQ102, EQ104, & EQ105.



1 Demolition Floor Plan
SCALE: 1/2" = 1'-0"

NORTH

KEY NOTES - FLOOR PLAN

1. REMOVE EXISTING GYPSUM BOARD CEILING. CAREFULLY REMOVE AND STORE HVAC DIFFUSERS AND LIGHTS SHOWN DASHED FOR REINSTALLATION. SEE NEW FLOOR PLANS, STRUCTURAL MECHANICAL, ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. DASHED LINE INDICATES EXTENT OF DEMOLITION OF THE EXISTING GYPSUM BOARD CEILING . SEE REFLECTED CEILING PLAN A131 FOR NEW CEILING TO BE INSTALLED AFTER STRUCTURAL, MECHANICAL AND ELECTRICAL WORK IS COMPLETED ABOVE CEILING.
3. EXISTING MEDGAS COLUMN TO REMAIN ALONG WITH ASSOCIATED STRUCTURAL SUPPORTS ABOVE. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXISTING GAS LINES. COORDINATE WITH OWNER'S VENDOR SKYTRON FOR MORE INFORMATION.
4. PATCH, REPAIR AND PAINT CEILING FOR ANY ABOVE CEILING WORK IN THIS AREA AFTER ALL WORK IS COMPLETE. REMOVE AND REINSTALL MECHANICAL DIFFUSERS AND LIGHTS IF REQUIRED. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
5. EXISTING GYPSUM BOARD SOFFIT AND WALL SCONCES AT SOFFIT TO REMAIN. PROTECT DURING CONSTRUCTION. REPLACE TO MATCH EXISTING IF DAMAGED DURING CONSTRUCTION. REPAINT ENTIRE SOFFIT. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
6. EXISTING LEAD LINED DOORS & HARDWARE TO REMAIN. PROTECT DURING CONSTRUCTION.
7. REMOVE EXISTING SHEET VINYL FLOORING & COVED BASE. DASHED LINE INDICATES EXTENT OF REMOVAL. SEE FINISH FLOOR PLAN A151 FOR MORE INFORMATION ON NEW FINISHES.
8. REMOVE EXISTING ACOUSTICAL CEILING TILES, GRID SYSTEM, LIGHTS, DIFFUSERS ETC. AS REQUIRED FOR ALL ABOVE CEILING M/E/P WORK. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION. CLEAN AND RE-INSTALL CEILING TILES, LIGHTS & DIFFUSERS BACK AFTER WORK IS COMPLETED. SEE REFLECTED CEILING PLAN ON SHEET A131 AND ELECTRICAL DRAWINGS.
9. CAREFULLY REMOVE EXISTING MED GAS PEDESTAL FOR RE-INSTALLATION. CLEAN INTERIORS AND RE-INSTALL AFTER ALL FLOORING WORK IS COMPLETE. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
10. EXISTING EPO (EMERGENCY POWER OFF) SWITCH. SEE ELECTRICAL DRAWINGS FOR MORE INFO.
11. EXISTING CABINET, COUNTERTOP, PLUMBING FIXTURE, ETC. TO REMAIN. PROTECT DURING CONSTRUCTION.
12. ELECTRICAL PANELS. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
13. EXISTING WALL MOUNTED MECHANICAL GRILL TO REMAIN. PROTECT DURING CONSTRUCTION.
14. EXISTING LEAD SHIELDED GLASS TO REMAIN. PROTECT DURING CONSTRUCTION.
15. EXISTING 4" DIA. HOLE ON FLOOR TO REMAIN AND RE-USED FOR THE NEW CATH LAB EQUIPMENT BY SIEMENS. THIS IS IDENTIFIED AS THE ORIENTATION POINT FOR THE PATIENT TABLE. FIELD VERIFY TO ESTABLISH ACTUAL LOCATION AND EXISTING CONDITIONS. EXISTING TABLE BASE PLATE TO BE REMOVED TO INSTALL NEW FLOORING. NEW PLATE TO BE THROUGH-BOLTED THROUGH CONCRETE FLOOR. SEE SHEET A100 FOR LOWER LEVEL CONDITION AND ALSO SEE STRUCTURAL DRAWINGS FOR THROUGH BOLTING. REMOVE EXISTING BOLTS FROM FLOOR.
16. EXISTING SHEET VINYL FLOORING AND COVED BASE TO REMAIN. PROTECT DURING CONSTRUCTION. SEE FINISH FLOOR PLAN.
17. REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP. REPLACE WITH NEW COUNTERTOP AS INDICATED IN THE NEW FLOOR PLAN. SUPPORTS AND BRACKETS SHALL BE RE-USED. PROVIDE TWO ADDITIONAL METAL SUPPORT LEGS UNDER THE COUNTERTOP. BASIS OF DESIGN: COUNTER 34- BRUSHED STEEL SET-NO-CUT.
18. EXISTING 4" DIA. HOLE AND CONDUIT ON FLOOR TO REMAIN AND RE-USED FOR THE NEW CATH LAB EQUIPMENT. THIS IS IDENTIFIED AS HOLE "B10" ON SIEMENS PLANS. FIELD VERIFY TO ESTABLISH ACTUAL LOCATION AND EXISTING CONDITIONS.
19. DASHED LINE INDICATES FLOOR TO CEILING TEMPORARY DUST PROOF CONSTRUCTION BARRIER TO PREVENT DUST & DIRT MIGRATION AND TO SEPARATE AREAS OCCUPIED BY OWNER FROM FUMES AND NOISE. CONSTRUCTION BARRIER TO BE ERECTED WITH 1 5/8" 20 GA. MTL. STUDS @16" O.C. FRAMING WITH 5/8" TYPE 'X' ABUSE RESISTANT GYPSUM BOARD ON BOTH SIDES. TAPE AND SEAL ALL JOINTS AND OPENINGS. SEAL JOINTS AT PERIMETER. PARTITION TO BE EQUIPPED WITH 4'-0" LOCKABLE MAN DOOR WITH STICKY MATS ON BOTH SIDES OF DOOR. COORDINATE WITH OWNER AND FIELD VERIFY FOR EXACT LOCATION OF CONSTRUCTION BARRIER.
20. EXISTING VCT FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION. PATCH AND REPAIR FLOORING AS REQUIRED IN ORDER TO ACCOMPLISH THE WORK OUTLINED IN THE CONSTRUCTION DOCUMENTS.
21. REMOVE UNISTRUTS SHOWN DASHED AND ASSOCIATED STRUCTURAL SUPPORT FROM CEILING. MAINTAIN STRUCTURAL INTEGRITY OF THE UNISTRUT PORTION THAT IS STAYING. CONTACT STRUCTURAL ENGINEER FOR EVALUATION BEFORE PROCEEDING WITH THE WORK. REPLACE AND REPAIR GYPSUM CEILING AS REQUIRED TO MATCH ADJACENT AFTER DEMOLITION WORK IS COMPLETED.
22. EXISTING SIEMENS EQUIPMENT & CABINET FOR ADJACENT CATH LAB #1 SHALL REMAIN, PROTECT DURING CONSTRUCTION.
23. REMOVE UPPER APRON RACK AS REQUIRED AND PREP WALL FOR NEW LOCATION OF SKYTRON LIGHTING CONTROL PANEL. PATCH AND REPAIR LEAD SHIELDED WALL TO MAINTAIN SHIELDING.
24. EXISTING SIEMENS CATH LAB EQUIPMENT AND PATIENT TABLE TO BE REMOVED BY OWNERS VENDOR SIEMENS. SCHEDULE WORK WITH SIEMENS MANAGER CHRIS THOMAS.
25. EXISTING CEILING MOUNTED UNISTUTS AND RAIL SYSTEM TO REMAIN. PROTECT DURING CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER FOR EXAMINATION AFTER REMOVAL OF GYP. BD. CEILING BEFORE PROCEEDING WITH NEW WORK.
26. EXISTING MED GAS SHUT OFF VALVE TO REMAIN. SEE MECHANICAL DRAWINGS FOR MORE INFO.
27. EXISTING MED GAS CONTROL VALVE TO REMAIN. PROTECT DURING CONSTRUCTION. SEE MECHANICAL DRAWINGS FOR MORE INFO.
28. EXISTING CEILING MOUNTED SURGICAL LIGHT AND BOOM TO REMAIN. PROTECT DURING CONSTRUCTION.
29. CAREFULLY REMOVE EXISTING CEILING MOUNTED CAMERA FOR REINSTALLATION AT THE SAME LOCATION AFTER ALL CEILING WORK IS COMPLETE.

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Intermountain Healthcare
IMC- Cath Lab 2 Remodel Project
5121 South Cottonwood Street
Murray, UT 84107

NJRA Project #	19205.00
Construction Documents	July 15, 2020
1 Addendum #1	July 28, 2020

Demolition Floor and Ceiling Plan - Level 1

A101

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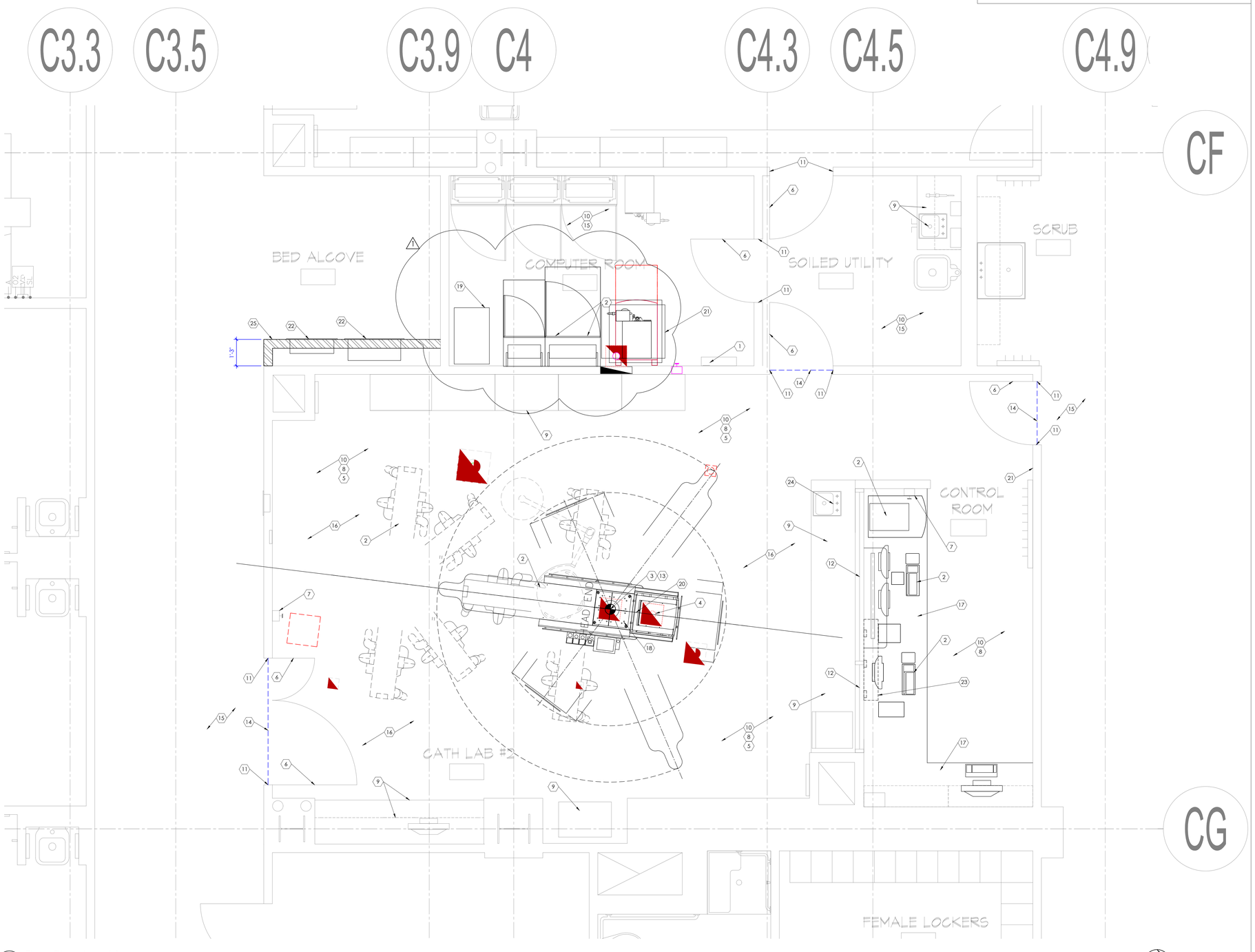

1 Floor Plan- Level 1
SCALE: 1/2" = 1'-0"

NORTH

GENERAL NOTES

1. COORDINATE WITH SIEMENS REPRESENTATIVE TO ENSURE REQUIRED CEILING HEIGHT OF 8'-11" IS ACHIEVED FROM FINISHED FLOOR TO THE FACE OF THE UNISTRUT INSTALLED AT THE CEILING. SEE SIEMENS EQUIPMENT DRAWINGS FOR ACCEPTABLE FLOOR SLOPE TOLERANCES AND FOR MORE INFORMATION. FIELD VERIFY AND COORDINATE WORK BEFORE PROCEEDING.
2. ALL EXPOSED STEEL IN THE WALLS, ABOVE CEILING ETC. ARE REQUIRED TO BE SPRAY APPLIED FIRE PROOFED. SEE CODE COMPLIANCE PLANS FOR FIRE RATINGS THAT IS REQUIRED TO BE MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGE TO THE EXISTING FIRE PROOFING IS REQUIRED TO BE PATCHED AND REPAIRED WITH COMPATIBLE FIRE PROOFING PRODUCT.
3. ALL EXISTING MAGNETIC AND LEAD SHIELDING IN THE EXISTING WALLS, FLOOR AND ROOF DECK IS REQUIRED TO BE RETAINED. REPLACE TO MAINTAIN SHIELDING WITH EQUIVALENT SHIELDING TO MATCH ORIGINAL CONDITIONS. IF DAMAGED DURING CONSTRUCTION.

KEY NOTES - FLOOR PLAN

1. ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. NEW CATHLAB EQUIPMENT & PATIENT TABLE, PROVIDED & INSTALLED BY OWNERS VENDOR SIEMENS. SEE VENDOR DRAWINGS FOR MORE INFORMATION.
3. ISO-CENTER LOCATION OF THE CATH-LAB EQUIPMENT. FIELD VERIFY AND COORDINATE WITH OWNER'S VENDOR (SIEMENS) FOR MORE INFORMATION.
4. CAREFULLY REMOVE EXISTING STAINLESS STEEL MED GAS PEDESTAL FOR REINSTALLATION AFTER FLOORING IS COMPLETE.
5. REPLACE ALL EXISTING DUPLEX EMERGENCY POWER OUTLETS TO FOUR PLEX ON THE WALLS. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. NOTE THAT ALL EXISTING WALLS HAVE 4 LB LEAD SHIELDING UP TO 7'-0" HIGH. INTEGRATION OF ALL SHIELDING SHALL NEED TO BE RETAINED AND REPAIRED TO ORIGINAL CONDITION AFTER ALL WORK IS COMPLETED, TYPICAL THROUGHOUT THE PROJECT.
6. EXISTING LEAD LINED DOORS, FRAME & HARDWARE TO REMAIN. PROTECT DURING CONSTRUCTION.
7. EXISTING EMERGENCY POWER OFF SWITCH TO REMAIN. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
8. NEW SHEET VINYL FLOORING WITH 4" COVED BASE. COORDINATE WITH OWNERS VENDOR SIEMENS REGARDING ACCEPTABLE SLOPE TOLERANCES ON THE FLOOR BEFORE PROCEEDING WITH THE WORK. SEE FINISH FLOOR PLANS AND SIEMENS DRAWINGS FOR MORE INFORMATION. COVED BASE SHALL FULLY ADHERE TO WALL.
9. EXISTING CABINETS, COUNTERTOP, PLUMING FIXTURES, ETC. TO REMAIN. PROTECT DURING CONSTRUCTION.
10. REFINISH AND PAINT EXISTING GYPSUM BOARD WALL. SEE FINISH FLOOR PLAN FOR MORE INFORMATION.
11. REPAINT EXISTING H.M. DOOR FRAME, TYP. SEE FINISH FLOOR PLAN.
12. EXISTING LEAD SHIELDED WINDOW & GLAZING TO REMAIN. PROTECT DURING CONSTRUCTION.
13. ORIENTATION POINT OF THE PATIENT TABLE SHALL ALIGN WITH THE EXISTING 4" DIA. HOLE ON THE FLOOR AT THIS LOCATION. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH OWNER'S VENDOR (SIEMENS) FOR MORE INFORMATION.
14. DASHED LINE SHOWS EXTENT OF NEW FLOORING. SEE FINISH FLOOR PLAN FOR MORE INFORMATION.
15. EXISTING FLOOR FINISH TO REMAIN AT THIS LOCATION. PROTECT DURING CONSTRUCTION.
16. VERIFY FLOOR LEVELNESS. FLOOR SHOULD BE ±1/8" IN 10'-0" THROUGH THE ROOM. IF FLOOR IS UNEVEN, POUR SELF LEVELING EPOXY COMPOUND (ARDEX OR EQUAL) TO ACHIEVE THE REQUIRED FLOOR LEVELNESS. UNISTRUTS FOR SIEMENS EQUIPMENT RAILS SHALL BE INSTALLED AFTER FLOOR IS LEVELED. MEASURE HEIGHT TO THE BOTTOM OF THE UNISTRUTS ABOVE FINISHED FLOOR PER SIEMENS DRAWINGS. PREP FLOOR FOR NEW FINISHES. SEE SIEMENS DRAWINGS FOR ACCEPTABLE TOLERENCE LEVEL.
17. NEW PLASTIC LAMINATE COUNTERTOP WITH BULL-NOSED EDGE. SEE DETAIL A6/A-501 AND FINISH FLOOR PLAN FOR LAMINATE COLOR REQUIRED TO MATCH ADJACENT EXISTING & MORE INFORMATION. HEIGHT OF COUNTERTOP SHALL MATCH WITH THE ADJACENT EXISTING. PROVIDE 4'-0" W X 1'-1" D OPENING IN COUNTERTOP FOR INSTALLATION OF LARGE DISPLAY MONITOR BY OWNER. PROVIDE 2" RADIUS AT ALL INSIDE CORNERS. EXISTING SUPPORTS AND METAL BRACKETS MAY BE RE-USED. THE MONITOR OPENINGS ON THE COUNTERTOP MAY REQUIRE EXISTING BRACKETS TO BE MOVED OR ADJUSTED. PROVIDE BACKING IN THE WALL FOR INSTALLATION OF THE OWNER PROVIDED MONITOR. FIELD VERIFY EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK.INSTALL TWO ADJUSTABLE HEIGHT STEEL LEGS FOR SUPPORT OF DEEP COUNTERTOP. BASIS OF DESIGN: COUNTER 34 BRUSHED STEEL SET-NO-CUT.
18. SIEMENS EQUIPMENT BASE PLATES TO BE ANCHORED TO THE EXISTING CONCRETE FLOOR. SEE SHEET A100 FOR REMOVAL OF CEILING AT LOWER LEVEL FOR INSTALLATION OF THE METAL PLATES. SEE STRUCTURAL & SIEMENS DRAWINGS FOR MORE INFORMATION.
19. NEW DATA RACK. PROVIDED AND INSTALLED BY OWNER'S VENDOR. PROVIDE REQUIRED ELECTRICAL & DATA CONNECTION AS SHOWN IN THE ELECTRICAL DRAWINGS. COORDINATE WORK & EXACT LOCATION WITH THE OWNER AND ALL VENDORS INVOLVED BEFORE PROCEEDING.
20. RE-USE EXISTING 4" DIA. HOLE AND CONDUIT AS REQUIRED. THIS IS IDENTIFIED AS HOLE "B10" IN SIEMENS DRAWINGS.
21. SKYTRON LIGHTING CONTROL PANEL. SEE DRAWINGS FROM SKYTRON AND ALSO SEE ELECTRICAL DRAWINGS. CONTROL PANEL TO BE WRAPPED IN LEAD TO MAINTAIN INTEGRITY OF SHIELDING.
22. NEW ISOLATION DISTRIBUTION PANEL INSTALLED IN THE BOXED STUD FRAMED WALL. PROTECT DURING CONSTRUCTION. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. INSTALL HNEW REMOTE ISOLATION ANNUNCIATOR IN THE LAB.
23. SIEMENS CATH LAB EQUIPMENT INSTALLED UNDER COUNTER. ADJUST LOCATION OF THE COUNTERTOP BRACKET AS REQUIRED TO MAKE ROOM FOR THE EQUIPMENT. COORDINATE WORK WITH LARGE DISPLAY PROVIDED BY OWNER.
24. EXISTING PLUMBING FIXTURE, SINK TO REMAIN. PROTECT DURING CONSTRUCTION. PROVIDE LOCK AT THE CABINETS UNDER THE SINK.
25. 3-5/8" THICK METAL STUD FRAMED BOXED WALL WITH $\frac{5}{8}$" THICK TYPE-X PAINTED GYPSUM BOARD SHEATHING ON ONE SIDE FROM THE FLOOR TO CEILING ABOVE TO HOUSE NEW ISOLATION PANELS. PAINT AND FINISH WALL TO MATCH WITH ADJACENT EXISTING HALLWAY. PROVIDE WALL PROTECTION AND CORNER GUARD TO MATCH ADJACENT EXISTING.

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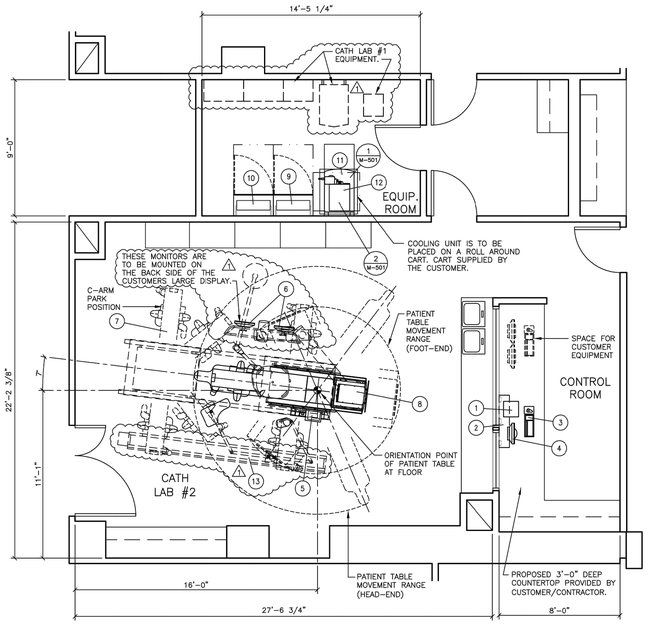
New Floor Plan- Level 1

A111

7/28/2020 2:58:02 PM - Z:\2001 IHC\2020\4.00 IHC - IMC CATH LAB #2\02 BIM - REVIT & AUTOCAD\02 AUTOCAD DWGS\A111 NEW FLOOR PLAN- LEVEL 1.DWG



SINKS, COUNTERTOPS AND ALL CASEWORK SHOWN IS SUGGESTED AND MUST BE DESIGNED SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

THIS SET OF FINAL DRAWINGS IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN. IF REQUESTED, SIEMENS WILL PRODUCE A REVISED SET OF FINAL DRAWINGS TO REFLECT THE CHANGES, HOWEVER SIEMENS IS NOT RESPONSIBLE FOR ANY CONSTRUCTION COSTS ASSOCIATED WITH THE CHANGES THAT OCCUR FROM THIS PLAN MODIFICATION.

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES) W	D	H	REMARKS
1	ACE (ARCHIVE CONTROL EXTENSION)	—	13	N/A	12 1/4	11 3/4	4	ON COUNTER
2	CONTROL ROOM DISTRIBUTOR	—	64	342	41 1/2	8 1/4	16 1/8	WALL MOUNTED
3	KEYBOARD	—	2.2	342	17 1/2	6 1/8	2 1/8	ON COUNTER
4	19" LIVE DISPLAY	—	15	256	16 1/2	8 1/4	13 1/2	ON COUNTER
5	TABLE CONTROL MODULES	—	13.8	---	16 1/2	8 3/4	3 1/2	ON TABLE
6	BOOM 1 KIT 19" (2) DISPLAYS LIVE+REF	—	25	512	33	8 1/4	13 1/2	OEM BOOM MOUNTED
7	ARTIS Q.ZEN CEILING C-ARM STAND	—	1,994	682	---	---	---	C-ARM CEILING SUSPENDED
8	PATIENT TABLE (BASIC, STANDARD TABLE)	—	997	683	---	---	---	FLOOR MOUNTED
9	POLYDOROS A100 GENERATOR CABINET	—	723	4,094	31 1/2	17 1/8	87	FLOOR MOUNTED
10	SYSTEM CONTROL CABINET	—	655	5,460	31 1/2	17 1/8	87	FLOOR MOUNTED
11	AXIS IMAGE SYSTEM	—	331	4,347	23 3/4	37 1/4	28	CART MOUNTED
12	TUBE COOLING UNIT	—	80	15,355	16 1/2	28 1/4	19 1/4	CART MOUNTED
13	UPPER BODY RADIATION SHIELD 4 M TRACK (EXISTING)	—	196	---	---	---	---	TRACK MOUNTED

NON-SIEMENS (OEM) DISPLAY BOOMS

IMPORTANT SAFETY CRITERIA: FAILURE TO MEET THE FOLLOWING REQUIREMENTS MAY RESULT IN RISK OF INJURY TO PATIENTS, PERSONNEL OR DAMAGE TO THE EQUIPMENT!

1) IT MUST BE POSSIBLE TO MANUALLY MOVE THE BOOM VERTICALLY WITH A FORCE LESS THAN 85 N (19 LBS) WHEN POSITIONING THE DISPLAY BOOM OVER THE PATIENT.

2) TO AVOID THE RISK OF CRUSHING PERSONS OR DAMAGING EQUIPMENT IN THE EVENT THAT THE ANGIOGRAPHY SYSTEM COMES INTO CONTACT WITH THE DISPLAY BOOM, IT MUST BE POSSIBLE TO PUSH THE BOOM AWAY IN A HORIZONTAL DIRECTION WITH A FORCE LESS THAN 50 N (11 LBS).

3) MOTORIZED, HEIGHT-ADJUSTABLE DISPLAY BOOMS WHICH CANNOT MANUALLY BE PUSHED AWAY MAY NOT BE USED.

DELIVERY AND INSTALLATION:
IT IS RECOMMENDED THAT INSTALLATION OF 3RD PARTY DISPLAY BOOMS BE COORDINATED WITH THE INSTALLATION OF THE SIEMENS SYSTEM. IN ORDER TO ENSURE THE SIMULTANEOUS INSTALLATION OF THE SYSTEM AND THE DISPLAY BOOM, THE CUSTOMER SHOULD TAKE STEPS EARLY IN THE PLANNING PROCESS TO ENSURE THAT THE BOOM MANUFACTURER'S LEAD TIME CAN BE COORDINATED WITH THE DELIVERY OF THE SIEMENS EQUIPMENT. THE THIRD-PARTY MANUFACTURER IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF THE DISPLAY BOOM(S). THE THIRD-PARTY MANUFACTURER IS RESPONSIBLE FOR INSTALLING THE SIEMENS COMPONENTS IN THE DISPLAY BOOM IN ACCORDANCE WITH SIEMENS SPECIFICATIONS. SIEMENS ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE TO SIEMENS COMPONENTS WHICH ARE NOT INSTALLED IN ACCORDANCE WITH SIEMENS SPECIFICATIONS. SIEMENS TECHNICIANS MUST BE GIVEN INSTRUCTIONS AND/OR TRAINING AS APPROPRIATE BY THE 3RD PARTY MANUFACTURER FOR MAINTENANCE/SERVICE OF THE SIEMENS COMPONENTS (I.E. DISPLAY, CABLES), OR A TECHNICIAN FROM THE THIRD-PARTY MANUFACTURER MUST BE PRESENT WHENEVER ANY SERVICE WORK IS PERFORMED.

	PROJECT MILESTONES TO BE COMPLETED BEFORE EQUIPMENT DELIVERY	REFERENCE SHEET
☐	Storage area available for storing items during installation	A-101
☐	Lead shielding (walls, doors, windows) complete	A-101
☐	Climate control functioning 24 hours a day, 7 days a week	A-101
☐	Delivery path verified for largest piece, including rails	A-101
☐	Casework complete in control room	A-101
☐	All walls primed and painted. Flooring installed	A-101
☐	Room lighting complete and functional	A-101
☐	Network drops active and IP addresses obtained for Siemens Remote Services (SRS)	A-102
☐	Nothing hanging below ceiling in area shaded on drawing	A-102
☐	Floor thickness and anchoring spec's verified. If req'd, alt solutions per engineer of record in place	S-101
☐	All conduits, troughs, in-floor pull boxes and/or core drills avoid conflict with floor plate anchors	S-101
☐	Unistrut installed to correct height, location, and levelness (check minimum ceiling height)	S-102
☐	Cable runs checked to ensure maximum lengths not exceeded	E-101
☐	X-Ray warning light and wiring installed	E-101
☐	Contractor supplied electrical wiring / pigtails installed	E-102
☐	Cable inlets located per plans	E-102
☐	EPO's installed and functional	E-102
☐	UPS started and functional	E-102
☐	Ancillary equipment (OEM items, booms, etc) installed	E-102
☐	Breakers installed and facility power available	E-501

ARCHITECTURAL NOTES

1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E.: PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER.
2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCES SHOWN.
3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
5) ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
7) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPLIED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
8) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.
10) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0". REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

TRANSPORT/STORAGE FLAT PANEL DETECTOR

IN SYSTEMS WITH FLAT PANEL DETECTORS, THE DETECTOR IS REMOVED FROM THE STAND FOR TRANSPORT TO THE CUSTOMER. THE LIMITED TRANSPORT AND STORAGE CONDITIONS APPLY FOR THE DETECTOR.

FLAT PANEL DETECTOR:

TEMPERATURE RANGE: 14° F TO 131° F
RELATIVE HUMIDITY: 20% TO 95% NON CONDENSING
AIR PRESSURE: 700 hPa TO 1060 hPa

TRANSPORTING REQUIREMENTS

LARGEST CRATE WITH PACKING:
103.6"(L) x 46.5"(D) x 81.5"(H), 2,590 LBS.

LARGEST INDIVIDUAL PIECE WITH CARRIAGE (MIN. DOOR OPENING):
97 1/4"(L) x 39 1/2"(W) x 75"(H), 2,006 LBS.

CEILING RAILS ARE 14 FT.(L) x 3"(W) x 3"(H)

MIN. CORRIDOR WIDTH: 82.7"

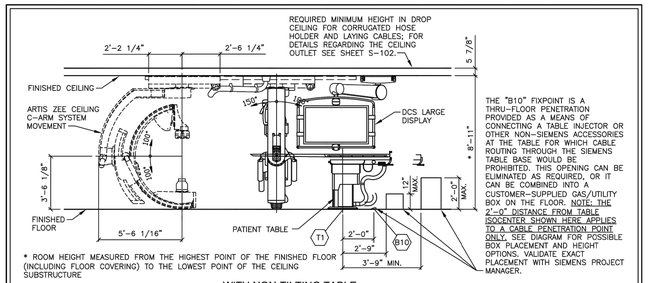
RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
ARTIS Q / Q.ZEN CEILING	AXAQ-060.891.01.01.02	04.13

ARTIS Q/Q.ZEN/ZEE CEILING REV. 23

ARCHITECTURAL EQUIPMENT PLAN

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



1 ARTIS Q/Q.ZEN/ZEE CEILING TYPICAL ELEVATION — SCALE: NONE

STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

MAGNETIC FIELD PRECAUTIONS

THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING VALUES ARE NOT EXCEEDED.

MAXIMUM ALLOWABLE MAGNETIC FIELD	DEVICES
1.0mT (10 GAUSS)	COMPUTERS, MAGNETIC DISK DRIVES, OSCILLOSCOPES, PROCESSORS
0.5mT (5 GAUSS)	X-RAY TUBES, B/W MONITORS, MAGNETIC DATA CARRIERS, DATA STORAGE DRIVES
0.2mT (2 GAUSS)	SIEMENS CT SCANNERS
0.15mT (1.5 GAUSS)	COLOR MONITORS, SIEMENS LINEAR ACCELERATORS
0.05mT (0.5 GAUSS)	X-RAY IMAGE INTENSIFIERS, GAMMA CAMERAS, PET/CYCLOTRON, OTHER LINEAR ACCELERATORS

MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY

CEILING HEIGHT REQUIREMENT
8 FT. – 11 IN.

ATTENTION:

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SYM	DATE	DESCRIPTION
1	07/23/20	REVISED FINAL PER CUSTOMER REQUEST
2	03/08/20	R-1010(A) VERSION DATED 02/25/20 APPROVED BY CUSTOMER FOR FINALS
		—ISSUE BLOCK—

PROJECT MANAGER: CHRISTOPHER THOMAS
TEL: (801) 209-6582 EXT:
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SIEMENS

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

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.

PROJECT #: 2000965
SHEET: A-101
SHEET 1 OF 8
DRAWN BY: M. GONZALEZ
SCALE: AS NOTED
REF. #: CPC-133078
DATE: 03/08/20

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

NJRA ARCHITECTS
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STATE OF UTAH ★ SELWELL RALPH ★ 267867 ★ LICENSED ARCHITECT

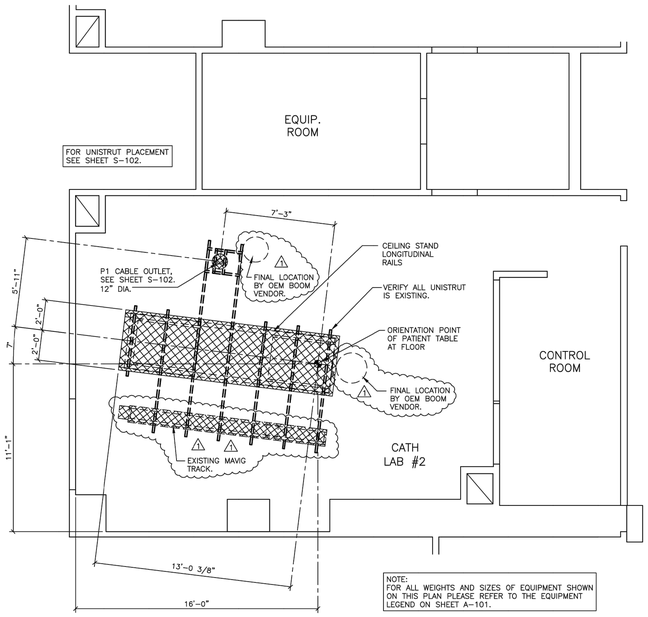
Intermountain Healthcare
IMC- Cath Lab 2 Remodel Project
5121 South Cottonwood Street
Murray, UT 84107

NJRA Project #	19205.00
Construction Documents	July 15, 2020
Addendum #1	July 28, 2020

Siemens Equipment-Architectural

EQ 101

7/28/2020 10:48:11 AM - Z:\200 IHC\20204.00 IHC - IMC CATH LAB #2\02 BIM - REVIT & AUTOCAD\02 AUTOCAD DWGS\EQ 101 SIEMENS EQUIPMENT- ARCHITECTURAL.DWG

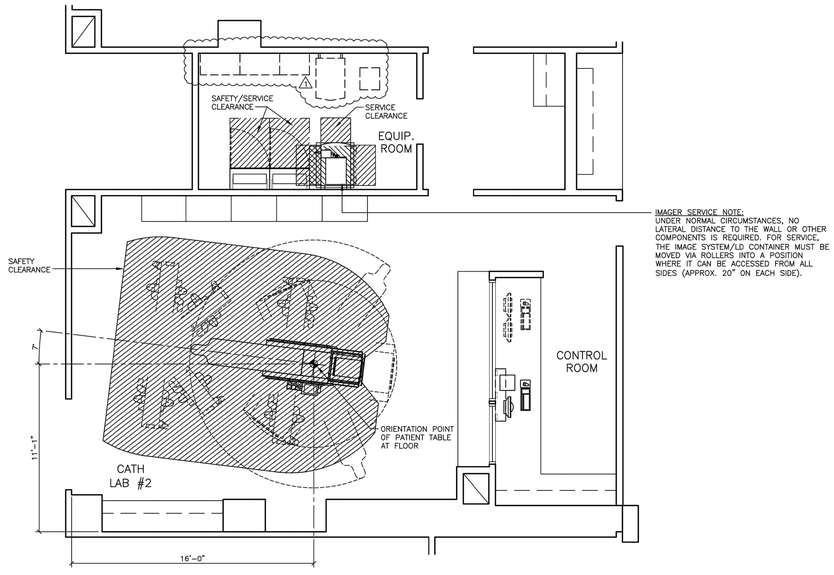


NOTE:
FOR ALL WEIGHTS AND SIZES OF EQUIPMENT SHOWN ON THIS PLAN PLEASE REFER TO THE EQUIPMENT LEGEND ON SHEET A-101.

ATTENTION! LIGHTING AND HVAC DUCTS HAVING THE POTENTIAL TO HEAT OR COOL SIEMENS COMPONENTS MUST NOT BE LOCATED WITHIN SIEMENS CEILING RAIL SYSTEMS AS INDICATED BY THE SHADED AREAS ON THIS PLAN. SPRINKLER HEADS MUST NOT BE LOCATED WITHIN THE SHADED AREAS AS WELL. IF REQUIRED, LAMINAR AIRFLOW DIFFUSERS MAY BE LOCATED WITHIN SIEMENS CEILING RAIL SYSTEMS PROVIDED THEY DO NOT EXTEND BELOW THE FINISHED CEILING OR HEAT/COOL SIEMENS EQUIPMENT. IF PLACED WITHIN SIEMENS RAIL SYSTEMS, THE CUSTOMER MUST ACCEPT RESPONSIBILITY FOR THE FACT THAT, DEPENDING ON THE POSITION OF THE CARRIAGE WITHIN THE CEILING RAILS, THERE IS POTENTIAL FOR CERTAIN DIFFUSERS IN THIS AREA TO BE BLOCKED. THE CUSTOMER MUST ALSO ACCEPT RESPONSIBILITY FOR POTENTIAL DIFFICULTIES IN SERVICING THE CUSTOMER'S MECHANICAL EQUIPMENT IN THE CEILING, IF PLACED WITHIN THESE SHADED AREAS. PLEASE COORDINATE THE PLACEMENT OF THESE ITEMS WITH THE SIEMENS PROJECT MANAGER. SIEMENS SHALL BEAR NO RESPONSIBILITY FOR ANY EQUIPMENT DAMAGES RESULTING FROM THE INSTALLATION OF CUSTOMER-SUPPLIED INFRASTRUCTURE NOT ADHERING TO THE ABOVE STATED REQUIREMENTS.

REFLECTED CEILING PLAN

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



IMAGER SERVICE NOTE:
UNDER NORMAL CIRCUMSTANCES, NO LATERAL DISTANCE TO THE WALL OR OTHER COMPONENTS IS REQUIRED. FOR SERVICE, THE IMAGE SYSTEM/LD CONTAINER MUST BE MOVED VIA ROLLERS INTO A POSITION WHERE IT CAN BE ACCESSED FROM ALL SIDES (APPROX. 20" ON EACH SIDE).

SAFETY/SERVICE CLEARANCE PLAN

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

CEILING NOTES

1) ALL CEILING MOUNTED LIGHT FIXTURES, MECHANICAL REGISTERS AND SPRINKLER HEADS SHALL BE FLUSH WITH FINISHED CEILING, SHALL BE OUTSIDE OF ALL HATCHED AREAS AND SHALL BE SPECIFIED BY THE ARCHITECT OF RECORD AND SUBSEQUENT CONSULTING ENGINEERS.

2) THE ACTUAL CEILING DESIGN AND COORDINATION OF LIGHTING AND MECHANICAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT OF RECORD AND HIS SUBSEQUENT CONSULTING ENGINEERS.

3) THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR FABRICATING, SUPPLYING AND INSTALLING ALL LIGHT, MECHANICAL AND STRUCTURAL SUPPORTING SYSTEMS. SIEMENS MEDICAL SOLUTIONS INC. IS ONLY RESPONSIBLE FOR THE SUPPLYING, INSTALLING AND CALIBRATION OF SMS EQUIPMENT AS SPECIFIED ON THE EQUIPMENT SCHEDULE AS SHOWN ON SHEET A-101.

4) ALL ELECTRICAL AND STRUCTURAL SYSTEMS SHOWN ON THE REFLECTED CEILING PLAN HAVE BEEN COORDINATED WITH THE EQUIPMENT LOCATIONS AS SHOWN ON THE 1/4" SCALE ARCHITECTURAL EQUIPMENT PLAN (SHEET A-101). ANY CHANGES TO THE SMS EQUIPMENT CONFIGURATION AS SHOWN, DUE TO PLACEMENT OF LIGHTING, STRUCTURAL, ELECTRICAL AND MECHANICAL SYSTEMS, MUST BE APPROVED IN WRITING BY THE SMS PROJECT MANAGER PRIOR TO THE COMPLETION OF CONSTRUCTION DOCUMENTS.

ARTIS Q.ZEN/DEE CEILING
REV. 23

CEILING HEIGHT REQUIREMENT
8 FT. – 11 IN.

ATTENTION:

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SYM	DATE	DESCRIPTION
1	07/23/20	REVISED FINAL PER CUSTOMER REQUEST
2	03/08/20	R-101(K) VERSION DATED 02/26/20 APPROVED BY CUSTOMER FOR FINALS

–ISSUE BLOCK–

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SIEMENS

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CATH LAB #2 – ARTIS Q.ZEN CEILING

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ALL RIGHTS ARE RESERVED.

PROJECT #: 2000965
SHEET: A-102
SHEET 2 OF 8
DRAWN BY: M. GONZALEZ
SCALE: AS NOTED
REF. #: CPS-133078
DATE: 03/08/20

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

NJRA ARCHITECTS
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STATE OF UTAH ★ SELVAGGI RAMZI ★ 267867 ★ LICENSED ARCHITECT

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NJRA Project #	19205.00
Construction Documents	July 15, 2020
Addendum #1	July 28, 2020

Siemens Equipment- Architectural

EQ 102

7/28/2020 10:48:18 AM - Z:\200 IHC\20204.00 IHC - IMC CATH LAB #2\02 BIM - REVIT & AUTOCAD\02 AUTOCAD DWGS\EQ 102 SIEMENS EQUIPMENT- ARCHITECTURAL.DWG

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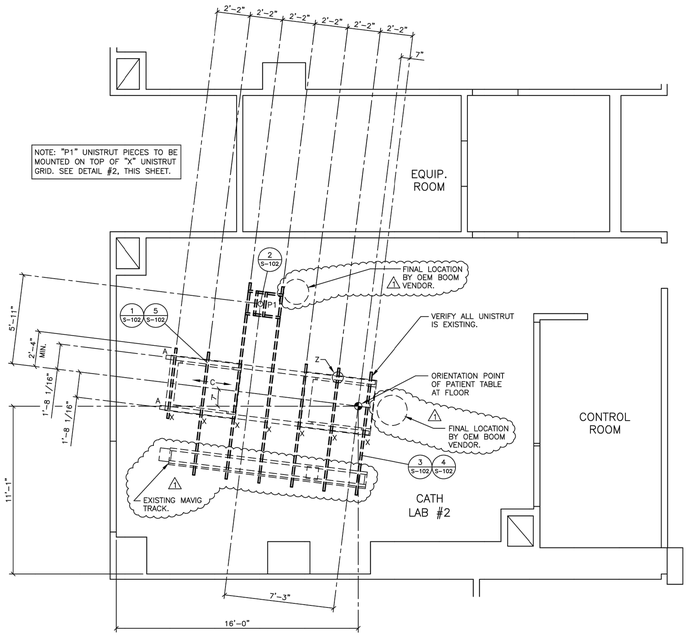
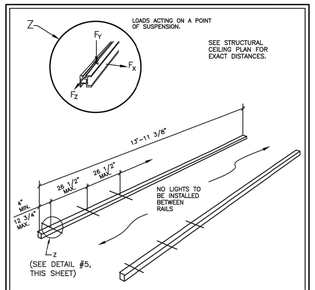


STRUCTURAL CEILING PLAN

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



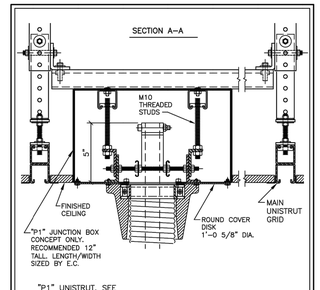
TYPICAL AT ALL INTERSECTIONS OF UNISTRUT AND C-ARM LONGITUDINAL RAILS "A"

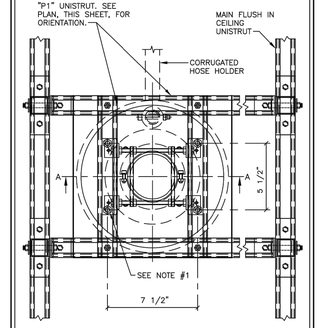
MAXIMUM LOADS DURING OPERATION	F MAX. =
F_y = VERTICAL CEILING LOAD PER MOUNTING POINT (ONE MOUNTING POINT INCLUDES (2) SCREWS) LOAD ON THE INDIVIDUAL SCREWS VARIES (MAX LOAD 1,439 LBS). THE DYNAMIC LOAD IS EXERTED ON EACH MOUNTING POINT BECAUSE THIS IS A FLOATING SINGLE LOAD.	1,800 LBS.
F_x = MAXIMUM TRANSVERSE FORCE EXERTED ON THE RAIL.	450 LBS.
F_z = MAXIMUM LONGITUDINAL FORCE EXERTED ON THE RAIL.	900 LBS.

NOTES:
A STRUCTURAL CEILING (IE UNISTRUT) MUST BE INSTALLED BY THE CUSTOMER/CONTRACTOR AND MUST MEET THE FOLLOWING SPECIFICATIONS:

1) THE BOTTOM SURFACE MUST BE POSITIONED HORIZONTALLY. (MAXIMUM DEVIATION IS 0.5MM/M (1/64"/39").
2) THE UNISTRUT SUB CONSTRUCTION SHOULD BE DESIGNED SUCH THAT VIBRATION INDUCED BY THE LONGITUDINAL AND TRANSVERSE FORCES ARE LIMITED TO THE VIBRATION SPECIFICATION AS SPECIFIED ON THE ENVIRONMENTAL CONDITIONS TABLE LOCATED ON THE M-501 SHEET. IF NECESSARY, THE STRUCTURAL CEILING (IE UNISTRUT) MUST BE REINFORCED WITH LONGITUDINAL AND TRANSVERSE BRACING.
3) PROVIDE LONGITUDINAL AND DIAGONAL SUPPORT BEAMS.
4) WITH A HORIZONTAL EXERTED FORCE OF 135 LBS., THE STRUCTURAL CEILING (IE UNISTRUT) MOVEMENT MAY NOT EXCEED 0.3MM (1/64").
5) THE GREATEST SHIFTING SINGLE LOAD (CEILING STAND) EXERTS A FORCE OF 1800 LBS ON THE CEILING. THE MAXIMUM DEFLECTION ON THE INSTALLATION CEILING CAUSED BY THIS SINGLE LOAD MAY NOT BE GREATER THAN 3MM (7/64").

1 CEILING LOADS — SCALE: NONE





NOTES:
1) CEILING ATTACHMENT WITH A PULLING FORCE ON EACH SCREW OF LESS THAN 338 LBS.
2) UNISTRUT PIECES AND UNISTRUT HARDWARE/ACCESSORIES SUPPLIED BY CUSTOMER/CONTRACTOR. ALL OTHER ATTACHMENT ITEMS SUPPLIED BY SIEMENS.

FLUSH P1 BOX DETAIL

2 CEILING OUTLET DETAIL — SCALE: NTS

CEILING PLAN LEGEND

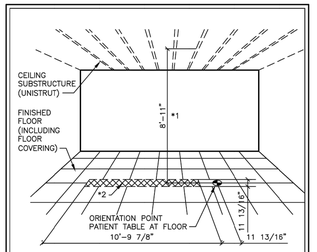
SUPPLIED/INSTALLED BY SIEMENS

SYM	DESCRIPTION	DET
A	LONGITUDINAL RAILS ATTACHED TO UNISTRUT	1,5
C	CEILING STAND MOVES ALONG LONGITUDINAL RAILS	1
D	DCS RAILS ATTACHED TO UNISTRUT	1,5
E	DCS CARRIAGE MOVES ALONG LONGITUDINAL RAILS	–
F	RAD. SHIELD RAILS ATTACHED TO UNISTRUT	–
G	RADIATION SHIELD SUPPORT CARRIAGE MOVES ALONG RAILS	–
Z	LONGITUDINAL RAIL SUPPORT MOUNTING POINT BOLTED TO UNISTRUT FRAME	5

SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR

SYM	DESCRIPTION	DET
X	UNISTRUT P-1001 (OR EQUIVALENT AS SPECIFIED BY STRUCTURAL ENGINEER OF RECORD) MOUNTED FLUSH WITH FINISHED CEILING. MUST BE LEVEL AS SPECIFIED BY SIEMENS ON STRUCTURAL NOTES AND DETAILS.	4
P1	CEILING OUTLET SUPPORTS	2

NOTE:
ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.



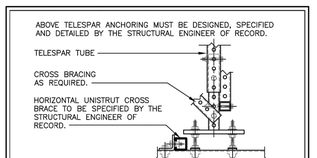
*1 ROOM HEIGHT MEASURED FROM THE HIGHEST POINT IN THE CROSSED HATCHED AREA ON THE FINISHED FLOOR (INCLUDING FLOOR COVERING) TO THE LOWEST POINT OF THE CEILING SUBSTRUCTURE (UNISTRUT). HERE, THE AREA OF THE CEILING SUBSTRUCTURE (UNISTRUT) IN WHICH THE LONGITUDINAL RAILS FOR THE CEILING STAND ARE INSTALLED IS THE DETERMINING FACTOR.

REQUIRED ROOM HEIGHT: 8'-11"

*2 THE CROSS-HATCHED AREA IS DETERMINED BY THE MOVEMENT RANGE OF THE CEILING STAND C-ARM.

MAXIMUM ADMISSIBLE FLOOR UNEVENNESS IN THE HATCHED AREA: 5/16".

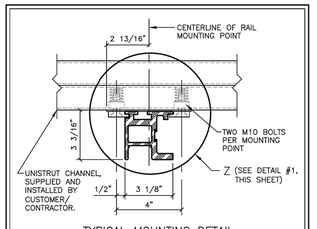
3 ADMISSIBLE ROOM HEIGHT — SCALE: 1/4"



NOTE: UNISTRUT CHANNEL COVERS MUST BE SUPPLIED AND INSTALLED BY CONTRACTOR AFTER EQUIPMENT HAS BE MOUNTED TO THE CEILING.

THIS DETAIL SHOWS A UNIVERSAL TELESPAR DROP THAT IS TYPICAL OF THE STRUCTURAL SUPPORT SYSTEM USED FOR CEILING MOUNTED IMAGING EQUIPMENT. THE ACTUAL STRUCTURAL SUPPORT SYSTEM MUST BE DESIGNED, DETAILED AND SPECIFIED BY THE STRUCTURAL ENGINEER OF RECORD. UNLESS OTHERWISE SPECIFIED, THE CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL ALL SUPPORT MEMBERS AND NEEDED HARDWARE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM. SEE THE 1/4" SCALE PLAN FOR LOCATIONS AND SPACING OF UNISTRUT CHANNELS.

4 UNISTRUT DETAIL — SCALE: NONE



TYPICAL MOUNTING DETAIL

5 CEILING RAILS — SCALE: NONE

CEILING HEIGHT REQUIREMENT
8 FT. – 11 IN.

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SYM	DATE	DESCRIPTION
2	07/23/20	REVISED FINAL PER CUSTOMER REQUEST
1	03/08/20	R-1018(A) VERSION DATED 02/29/20 APPROVED BY CUSTOMER FOR FINALS

–ISSUE BLOCK–

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CATH LAB #2 – ARTIS Q.ZEN CEILING

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PROJECT #: 2000965
SHEET: S-102
SHEET 4 OF 8
DRAWN BY: M. GONZALEZ
DATE: 03/08/20
SCALE: AS NOTED
REF. #: CPS-133078

ARIS Q/ZEN/DE CEILING REV. 23

REFERENCE DOCUMENT – NOT FOR CONSTRUCTION

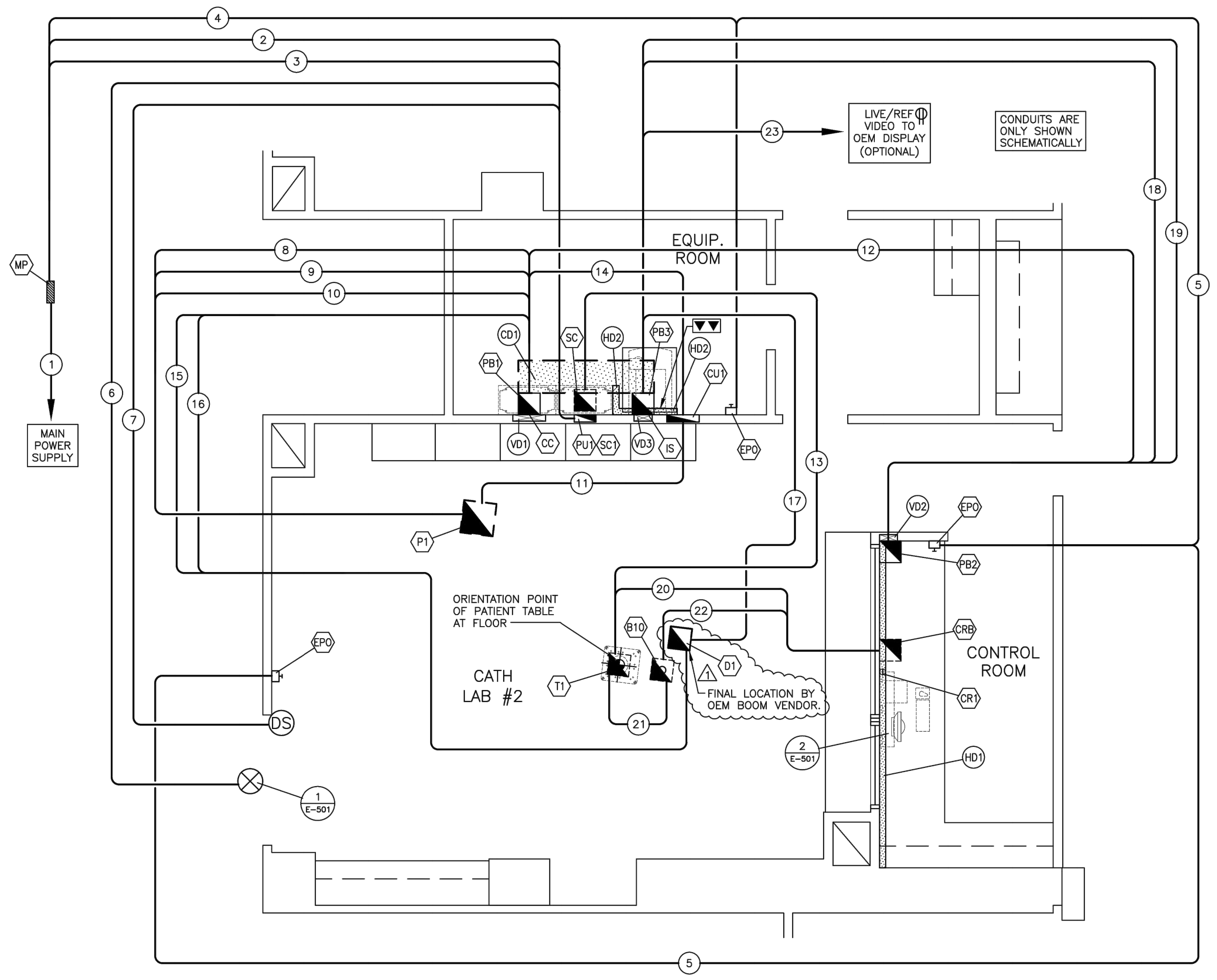
Intermountain Healthcare
IMC- Cath Lab 2 Remodel Project
5121 South Cottonwood Street
Murray, UT 84107

NJRA Project #	19205.00
Construction Documents	July 15, 2020
Addendum #1	July 28, 2020

Siemens Equipment-Structural

EQ 104

7/28/2020 1:49:00 PM - Z:\200 IHC\2020\4.00 IHC - IMC CATH LAB #2\02 BIM - REVIT & AUTOCAD\02 AUTOCAD DWGS\EQ 104 SIEMENS EQUIPMENT- STRUCTURAL.DWG



OEM BOOM NOTE: FOR SYSTEMS WITH HARD CEILINGS, REMOVABLE OR DROP DOWN ACCESS PANELS ARE REQUIRED FOR INSTALLATION AND SERVICE OF SYSTEM CABLES. ACCESS MUST BE LARGE ENOUGH AND LOCATED SO THAT SERVICE PERSONNEL CAN ACCESS ALL SIDES OF DUCT OR PULL BOX. ACCESS PANELS ARE TO BE LOCATED BY CUSTOMER/CONTRACTOR IN COORDINATION WITH SIEMENS PROJECT MANAGER AT EVERY BOOM LOCATION, ABOVE CEILING CABLE DUCT JUNCTION, OR PULL BOX LOCATION.

ELECTRICAL RACEWAY PLAN

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

SYMBOLS

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)
DS	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCHDUCT
	CEILING DUCT
	UNDER FLOOR DUCT
	SURFACE DUCT
	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET
	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	REMARKS
B10	AS REQUIRED	(EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 4"ø CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR. PROVIDE STAINLESS STEEL WATERPROOF PLATE ON TOP OF CORED OPENING IN FLOOR.	TABLE ACCESSORIES
CC	18" X 8"	(EXISTING) BUSHED OPENING IN VERTICAL DUCT "VD1" COVER AT FLOOR LINE.	CABLE INLET
CR1	3"ø	(EXISTING) BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUTOR
CRB	AS REQUIRED	(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 DESIGN TRANSITION TO SURFACE FLOOR DUCT AS REQUIRED.	CONTROL ROOM UNDER-FLOOR BOX
CU1	AS REQUIRED	(VERIFY EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED WALL AT 48" AFF. PROVIDE BOX WITH REMOVABLE FRONT COVER AND (1) 4"ø BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT. SEE PLAN FOR LOCATION.	COOLING UNIT
D1	AS REQUIRED	(NEW) PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 3"ø BUSHED OPENING. NOTE: IF LOCAL CODES REQUIRE COMPLETE CABLE CONTAINMENT IN RACEWAY, THIS BOX MUST BE SIZED SUCH THAT A 8" X 6" X 3" SIEMENS POWER DISTRIBUTION BOX CAN BE INSTALLED INSIDE THIS PULL BOX.	BOOM DVI 2xBWD-19D (live+ref)
EPO	---	EMERGENCY OFF BUTTONS FOR CIRCUIT BREAKERS. EPO'S MUST PREVENT RESETTING OF CIRCUIT BREAKERS WHEN IN OFF POSITION. EPO'S MUST BE RECESSED OR SHIELDED. FINAL LOCATION DETERMINED BY CUSTOMER	EMERGENCY POWER OFF
IS	4"ø	(VERIFY EXISTING) BUSHED OPENING IN VERTICAL DUCT "VD" COVER AT FLOOR LINE.	IMAGE SYSTEM
MP	---	MAIN PANEL WITH MAIN BREAKER. LOCATION DETERMINED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE"	BREAKER PANEL
PB1 PB2 PB3	AS REQUIRED	(VERIFY EXISTING) ABOVE FINISHED CEILING PULL BOXES FOR CONDUIT TERMINATION INTO VERTICAL DUCT. SEE PLAN FOR LOCATION.	PULL BOXES
P1	12" TALL	(EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 6"ø BUSHED OPENING.	C-ARM
PU1	AS REQUIRED	(VERIFY EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4"ø BUSHED OPENING AT BOTTOM OF COVER.	GENERATOR
SC1	AS REQUIRED	(VERIFY EXISTING) PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4"ø BUSHED OPENING AT BOTTOM OF COVER.	SYSTEM CABINET
SC	AS REQUIRED	(VERIFY EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 6"ø CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	SYSTEM CABINET
T1	AS REQUIRED	(EXISTING) PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 4"ø CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	TABLE
CD1	3 1/2" X 18"	CEILING DUCT MOUNTED ABOVE FINISHED CEILING. PROVIDE DUCT WITH REMOVABLE TOP COVER 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 USED FOR EXTRA CABLE STORAGE.	CEILING DUCT
HD1	3 1/2" X 10"	(EXISTING) HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS. CONNECT TO VERTICAL DUCT "VD2" AS SHOWN.	HORIZONTAL WALL DUCT
HD2	3 1/2" X 10"	HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. IF REQUIRED BY LOCAL CODE, DIVIDE DUCT INTO (3) SECTIONS WITH METAL DIVIDERS. CONNECT TO VERTICAL DUCT "VD3" AS SHOWN.	HORIZONTAL WALL DUCT
VD1	3 1/2" X 18"	(VERIFY EXISTING) VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR 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 INTO (3) SECTIONS WITH METAL DIVIDERS.	VERTICAL DUCT
VD2	3 1/2" X 10"	(VERIFY EXISTING) VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR 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 INTO (3) SECTIONS WITH METAL DIVIDERS.	VERTICAL DUCT
VD3	3 1/2" X 10"	(VERIFY EXISTING) VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR 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 INTO (3) SECTIONS WITH METAL DIVIDERS.	VERTICAL DUCT
1	EC TO SIZE	CONDUIT FROM PANEL TO "MP"	SEE "POWER SCHEDULE"
2	EC TO SIZE	CONDUIT FROM "MP" TO "PU1"	SEE "POWER SCHEDULE"
3	EC TO SIZE	CONDUIT FROM "MP" TO "SC1"	SEE "POWER SCHEDULE"
4	EC TO SIZE	CONDUIT FROM "MP" TO "EPO"	SEE "POWER SCHEDULE"
5	EC TO SIZE	CONDUIT FROM "EPO" TO "EPO"	
6	EC TO SIZE	CONDUIT FROM "SC1" TO "WL"	
7	EC TO SIZE	CONDUIT FROM "SC1" TO "DS"	
8	2"ø	(EXISTING) CONDUIT FROM "P1" TO "PB1" (PU1)	MAX. CONDUIT LENGTH 25'
9	(2) 3"ø	(EXISTING) CONDUITS FROM "P1" TO "PB1" (PU1)	MAX. CONDUIT LENGTH 25'
10	3"ø	(EXISTING) CONDUIT FROM "P1" TO "PB1" (SC1)	MAX. CONDUIT LENGTH 22'
11	2 1/2"ø	(EXISTING) CONDUIT FROM "P1" TO "CU1" FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 67'
12	(2) 3"ø	(EXISTING) CONDUITS FROM "PB1" (SC1) TO "PB2" (CR1) UNDER FLOOR	MAX. CONDUIT LENGTH 32'
13	3"ø	(EXISTING) CONDUIT FROM "SC" (SC1) TO "T1" UNDER FLOOR	MAX. CONDUIT LENGTH 35'
14	2"ø	(EXISTING) CONDUIT FROM "PB1" (SC1) TO "CU1"	MAX. CONDUIT LENGTH 78'
15	1"ø	(NEW) CONDUIT FROM "PB1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 78'
16	2 1/2"ø	(NEW) CONDUIT FROM "PB1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 42'
17	2"ø	(NEW) CONDUIT FROM "PB3" (IS) TO "D1"	MAX. CONDUIT LENGTH 55'
18	3"ø	(EXISTING) CONDUIT FROM "PB3" (IS) TO "PB2" (CR1)	MAX. CONDUIT LENGTH 33'
19	2"ø	(EXISTING) CONDUIT FROM "PB3" (IS) TO "PB2" (CR1)	MAX. CONDUIT LENGTH 33'
20	3"ø	(NEW) CONDUIT FROM "CRB" TO "T1" UNDER FLOOR (VOLCANO S51 CABLE SET)	MAX. CONDUIT LENGTH 68'
21	3"ø	(EXISTING) CONDUIT FROM "T1" TO "B10" UNDER FLOOR	
22	3"ø	(EXISTING) CONDUIT FROM "CRB" TO "B10" UNDER FLOOR (CUSTOMER PATIENT MONITORING)	
23	2"ø	(NEW) CONDUIT FROM "PB3" (IS) TO "CUSTOMER MONITOR" (LIVE+REF VIDEO TO OEM OPTION)	MAX. CONDUIT LENGTH 86'

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. 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.

2) 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 THE 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.

3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE 'WYE' 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 SIEMENS 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.

5) 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 TYPE.

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 MAINTAINED. 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 CIRCUITS.

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.

7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 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.

CONDUIT LENGTH CALCULATIONS

IF SITE-SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES, THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

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:
VERTICAL DUCTS – 12'-0"
FLOOR PENETRATIONS – 3'-0"

ARTIS Q/Q.ZEN/ZEE CEILING
REV. 23

CEILING HEIGHT REQUIREMENT

8 FT. – 11 IN.

SYM	DATE	DESCRIPTION
1	07/23/20	REVISED FINAL PER CUSTOMER REQUEST
0	03/08/20	R-101R(A) VERSION DATED 02/29/20 APPROVED BY CUSTOMER FOR FINALS

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CATH LAB #2 – ARTIS Q.ZEN CEILING

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PROJECT #: 2000965
SHEET: E-101
SHEET 5 OF 7
DRAWN BY: M. GONZALEZ
SCALE: AS NOTED
REF. #: CPQ-133078
DATE: 03/08/20

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

ATTENTION:

- 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 SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.
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STATE OF UTAH – SELVAM RAJAVELU 267857 – LICENSED ARCHITECT

Intermountain Healthcare
IMC- Cath Lab 2 Remodel Project

5121 South Cottonwood Street
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NJRA Project #	19205.00
Construction Documents	July 15, 2020
1 Addendum #1	July 28, 2020

Siemens Equipment- Electrical

EQ 105