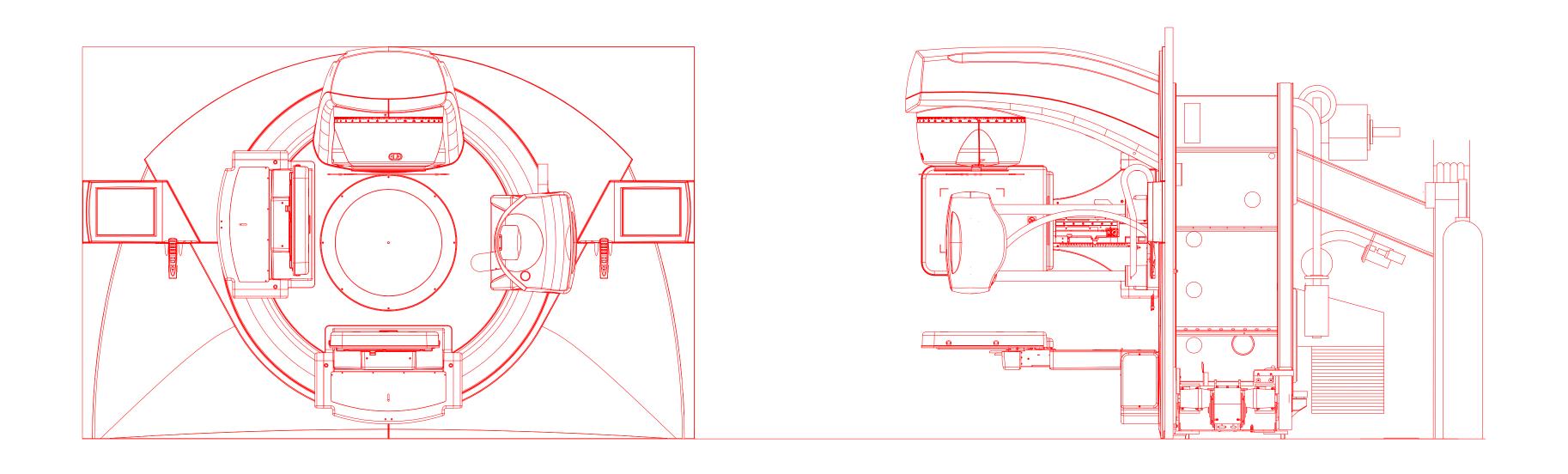
ELEKTA, INC Versa HD Delivery System



Prepared For:

JOHNS HOPKINS HOSPITAL VAULT B192 BALTIMORE, MARYLAND



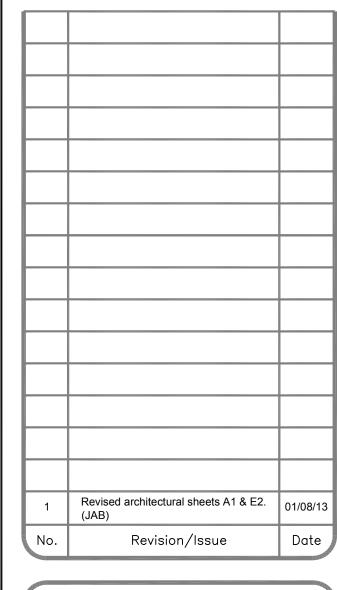
THIS SITE PLAN IS PROVIDED AS A CUSTOMER CONVENIENCE, AND IS NOT TO BE CONSTRUED AS AN ARCHITECTURAL PLAN OR A CONSTRUCTION

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ELEKTA
SITE PLANNING & DESIGN
4775 PEACHTREE INDUSTRIAL BLVD.
BUILDING 300, SUITE 300
NORCROSS, GEORGIA 30092
Tel. (770) 300-9725
Fax (770) 729-1585
E-mail: ussite.planning@elekta.com
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Project Name and Address

JOHNS HOPKINS HOSPITAL
401 N. BROADWAY
WEINBURG L2-1
BALTIMORE, MD 21231

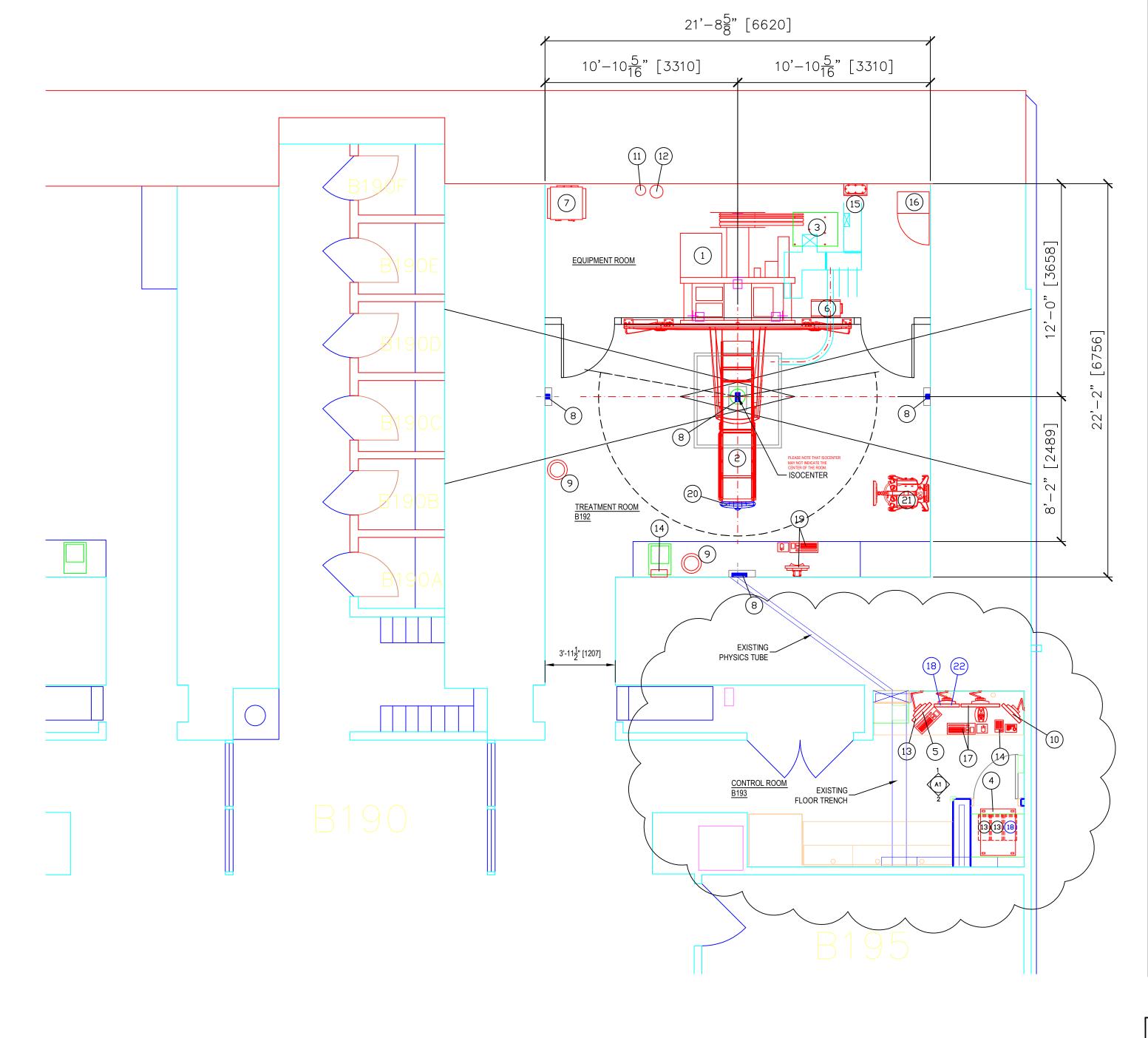


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| | 14040111801 22, 2010 |
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| | ONC12009 |
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| December 9, 2013 | Cover Sheet |
| Scale NONE | (Sheet 1 of 12) |

AD1 (1) Beam Applicator Storage

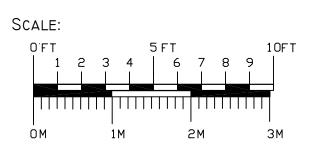


1" SUBSTRATE BOARD WITH P.LAM. -SHELF SHALL HAVE 6" CLEAR FROM PASSAGE OF WIRES AND AIR FLOW

EDGES FASTENED TO MTL STUDS

Equipment Layout

Johns Hopkins Hospital Baltimore, MD - Rev. 01.08.2014 Minimum Finish Ceiling Height: 8'-6 $\frac{3}{8}$ "



FLOOR TRENCH

GENERAL SPECIFICATIONS

1- RESPONSIBILITY

THE CUSTOMER SHALL BE SOLELY RESPONSIBLE, AT ITS EXPENSE FOR PREPARATION OF SITE, INCLUDING ANY REQUIRED STRUCTURAL ALTERATIONS, THE SITE PREPARATION SHALL BE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS APPROVED BY ELEKTA AS BEING SUITABLE FOR THE EQUIPMENT AND IN COMPLIANCE WITH ALL SAFETY ELECTRICAL AND BUILDING CODES RELEVANT TO THE EQUIPMENT AND ITS INSTALLATION. SUFFICIENCY OF SUCH PLANS AND SPECIFICATIONS, SPECIFICALLY INCLUDING, BUT NOT LIMITED TO THE ACCURACY OF THE DIMENSIONS DESCRIBED THEREIN, SHALL BE THE SOLE RESPONSIBILITY OF CUSTOMER. THE CUSTOMER SHALL ADVISE ELEKTA OF CONDITIONS AT OR NEAR THE SITE WHICH COULD ADVERSELY AFFECT THE CARRYING OUT OF THE INSTALLATION WORK AND SHALL ENSURE THAT SUCH CONDITIONS ARE CORRECTED AND THAT THE SITE IS FULLY PREPARED AND AVAILABLE TO ELEKTA BEFORE THE INSTALLATION WORK IS DUE TO BEGIN, THE CUSTOMER SHALL PROVIDE ALL NECESSARY PLUMBING, CARPENTRY WORK, OR CONDUIT WIRING REQUIRED TO ATTACH AND INSTALL PRODUCTS READY FOR USE.

CUSTOMER SHALL OBTAIN ALL PERMITS AND LICENSES REQUIRED BY FEDERAL, STATE OR LOCAL AUTHORITIES IN CONNECTION WITH THE CONSTRUCTION, INSTALLATION AND OPERATION OF THE PRODUCTS AND SHALL BEAR ANY EXPENSE IN OBTAINING SAME OR IN COMPLYING WITH ANY RELATED RULES, REGULATIONS, ORDINANCES

3- RADIATION PROTECTION

THE CUSTOMER OR HIS CONTRACTOR, AT HIS OWN EXPENSE, SHALL OBTAIN THE SERVICE OF A LICENSED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION. IF REQUIRED BY STATE AUTHORITIES, SHIELDING PLAN APPROVAL MUST BE OBTAINED BY CUSTOMER WITH COPY PROVIDED TO ELEKTA.

4- ASBESTOS AND OTHER TOXIC SUBSTANCES

ELEKTA ASSUMES NO HAZARDOUS WASTE (I.E., PCB'S IN EXISTING TRANSFORMERS) EXISTS AT THE SITE. IF ANY HAZARDOUS MATERIAL IS FOUND, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CUSTOMER TO PROPERLY REMOVE AND DISPOSE OF THIS MATERIAL AT ITS EXPENSE, ANY DELAYS CAUSED IN THE PROJECT FOR THIS SPECIAL HANDLING SHALL RESULT IN ELEKTA'S TIME PERIOD FOR COMPLETION BEING EXTENDED BE LIKE PERIOD OF TIME. ELEKTA ASSUMES THAT NO ASBESTOS MATERIAL IS INVOLVED IN THIS PROJECT IN ANY CEILINGS, WALL OR FLOORS. IF ANY ASBESTOS MATERIAL IS FOUND ANYWHERE ON THE SITE, IT SHALL BE THE CUSTOMER'S SOLE RESPONSIBILITY TO PROPERLY REMOVE AND/OR MAKE SAFE THIS CONDITION, AT THE CUSTOMER'S SOLE EXPENSE.

5- LAB□R

IN THE EVENT LOCAL LABOR CONDITIONS MAKE IT IMPOSSIBLE OR UNDESTRABLE TO USE ELEKTA'S REGULAR EMPLOYEES FOR SUCH INSTALLATION AND CONNECTION, SUCH WORK SHALL BE PERFORMED BY LABORERS SUPPLIED BY THE CUSTOMER, OR BY AN INDEPENDENT CONTRACTOR CHOSEN BY THE CUSTOMER AT THE CUSTOMER'S EXPENSE, AND IN SUCH CASE, ELEKTA AGREES TO FURNISH ADEQUATE ENGINEERING SUPERVISION FOR PROPER COMPLETING OF

6- SCHEDULE

THE GENERAL CONTRACTOR SHOULD PROVIDE ELEKTA WITH A SCHEDULE OF WORK TO ASSIST IN THE COORDINATION OF DELIVERY OF ELEKTA'S SUPPLIED PRODUCTS WHICH ARE TO BE INSTALLED BY THE CONTRACTOR AND DELIVERY OF THE PRIMARY EQUIPMENT.

7- CONFLICT

IN THE EVENT OF A CONFLICT BETWEEN THE WORK DESCRIBED AND/OR EQUIPMENT SHOWN IN THESE PLANS AND THE CONTRACT, THE CONTRACT SHALL GOVERN.

ROOM VAULT FOR HAND WASHING.

THE ELEKTA EQUIPMENT FASCIA AND CONTRACTOR'S FASCIA WALL SEPARATE THE EQUIPMENT ROOM FROM THE TREATMENT ROOM. 95% OF THE TOTAL HEAT LOAD IS GIVEN OFF BEHIND THE FASCIA WALL. THE CUSTOMER/CONTRACTOR SHOULD PROVIDE FOR ZONED HVAC SERVICE TO MEET THE DIFFERING HEAT LOAD REQUIREMENTS OF THESE TWO SPACES.

2- PERMITS

AND STATUTES.

THE INSTALLATION

8- TREATMENT ROOM SINK

IT IS SUGGESTED THAT A SINK BE LOCATED TIN THE TREATMENT

 A temperature of 72°F to 76°F, is advisable for operator/patient comfort. Temperature regulµtion to be operational at <u>Elekta Final Site Inspectio</u> 2) Air change requirements depend upon the treatment regime to be used, the room dimensions, the ozone concentration (i.e. the concentration of ozone for normal X-ray, normal electrons, TBI-X-rays, HDRE electrons) and national

> Gantry Area - Behind the Client's Fascia: The heat dissipated by the gantry and interface cabinet has a max of: 17,061 BTU/hr during normal treatment. However, in a normal day, treatment conditions apply only for part of the total time, so the average maximum dissipation is only about 6824 BTU/hr.

ELECTRICAL REQUIREMENTS SYNERGY PLATFORM ACCELERATOR WITH PCDU

SUPPLY CONFIGURATION: 3 PHASE, 3 WIRE POWER, NEUTRAL, AND GROUND, DELTA OR WYE 208 DR 480 VAC, 60 HZ. NOMINAL LINE VOLTAGE:

+/- 5% VOLTAGE ADJUSTMENT TAPS BRANCH POWER REQUIREMENT: 45 KVA (EACH BRANCH)

XVI SUPPLY CONFIGURATION: 3 PHASE, GROUND, 480V, 70A, 60HZ

TREATMENT ROOM AND CONTROL ROOM LAYOUTS SHOWN ON THESE SHEETS ARE EXAMPLES. THE CUSTOMER OR HIS CONTRACTOR, AT HIS OWN EXPENSE SHALL OBTAIN THE SERVICES OF A LICENSED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION. IF REQUIRED BY STATE AUTHORITIES, SHIELDING PLAN APPROVAL MUST BE OBTAINED BY CUSTOMER WITH COPY PROVIDED TO ELEKTA.

EQUIPMENT LEGEND A FURNISHED AND INSTALLED BY ELEKTA B FURNISHED BY CUSTOMER/CONTRACTOR AND INSTALLED BY INSTALLED BY CUSTOMER/CONTRACTOR DFURNISHED BY ELEKTA AND INSTALLED BY CONTRACTOR EXISTING SUPPLIED BY CUSTOMER ITEM NO. DETAIL SHEET-WEIGHT HEAT DESCRIPTION (LBS.) (BTU/HR.) A (1) VERSA HD DELIVERY SYSTEM 14330 | 13640 2502 3412 - PEAK A3 A |(2)| PRECISE PATIENT SUPPORT SYSTEM 1024 REELING INTERFACE CABINET (RIC) A 4 INTEGRITY R3.0 TCC CABINET 180 2850 A (5) INTEGRITY CONTROL SYSTEM 307 23 A 6 | ELECTRICAL INTERFACE MODULE (EIM) (LOCATED ON FLOOR BELOW FASCIA MONITOR) 117 409 D |(7)| PCDU-SLI (POWER COND. DISTRIBUTION UNIT) 610 2100 $\left| \begin{array}{c|c} 8 \end{array} \right|$ ROOM LASER (x4) - GREEN 85 B 9 CCTV CAMERA B (10) CCTV MONITOR 15 123 A (11) N2 DRY NITROGEN CYLINDER 119 (w/ low press. regulator - Commercial Grade 99.9% Pure) A 12 SF6 GAS CYLINDER (Commercial Grade 99.9% Pure) A (13) IVIEW GT / XVI IMAGE PROCESSING SYSTEM 556 B 14 INTERCOM SYSTEM D (15) CLIENT INTERFACE TERMINAL BOX 15 64 $A = (16) \times -RAY GENERATOR (XVI)$ 209 546 A |(17)| IMPAC MOSAIQ/SYNERGISTIQ WORKSTATION 600 IMPAC SCHEDULING WORKSTATION 64 A (19) INROOM MOSAIQ TERMINAL 15 256 A (20) CLARITY OPTICAL TRACKER 4.2 <5 A | (21) | CLARITY ULTRASOUND CONSOLE/WORKSTATION 187.4 500

| SPECIFICATIONS OF THE REQUIRED AIR CONDITIONING 05.06 | | | |
|---|--|---|---|
| | GANTRY AREA | TREATMENT AREA | CONTROL ROOM |
| TEMPERATURE RANGE | 59° - 70°F | 68° - 78°F See (1) Below | 68° - 78°F See (1) Below |
| RATE OF CHANGE OF TEMPERATURE | 3° F/hr | 3°F/hr | 3°F/hr |
| RATE OF CHANGE OF HUMIDITY | 20% / hr | 20% / hr | 20% / hr |
| HUMIDITY | 40 - 60% | 40 - 60% | 40 - 60% |
| DUST PREVENTION | Mandatory. The filter must have a 90% to 95% efficiency rating. For the Final Site Inspection of the Control Room & Vault by an Elekta Site Coordinator, the Vault, Control Room, & surrounding spaces must be dust free & "Hospital Clean" & remain so from that point forward. If construction (or any dust creating activities) will be in progress in the areas surrounding the Vault & Control Room, the contractor must take whatever action necessary to prevent dust from entering the Vault & Control Room. | | |
| HEAT DUTPUT DF EQUIPMENT IN TREATMENT | 17061 Btu/hr [5kW Maximum] (*) | 1706 Btu/hr [.5kW Maximum] | 2730 Btu/hr [2kW Maximum] |
| RECIRCULATION OF FRESH AIR | Refer to Physicist of Record | Refer to Physicist of Record | Refer to Physicist of Record |
| AIR CHANGES PER HOUR | Refer to Physicist of Record See (2) Below | Refer to Physicist of Record See (2) Below | Refer to Physicist of Record See (2) Below |
| (1) A temperature of 72°F to 76°F, is advisable for operator/patient comfort. | | | |

15

256

(22) CLARITY REMOTE VIEWING STATION

Updated control room layout to match architectural plans. (JAB) Revision/Issue

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4775 PEACHTREE INDUSTRIAL BLVD.

UTILITIES AVAILABLE AT THE PREMISES IN WHICH THE

EQUIPMENT IS TO BE INSTALLED, USED, OR STORED.

SITE PLANNING & DESIGN

BUILDING 300, SUITE 300

Tel. (770) 300-9725

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Project Name and Address

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BALTIMORE, MD 21231

NORCROSS, GEORGIA 30092

JOHNS HOPKINS HOSPITAL

E-mail: ussite.planning@elekta.com

OR A CONSTRUCTION DOCUMENT.

J. Blackwell Checked By November 22, 2013

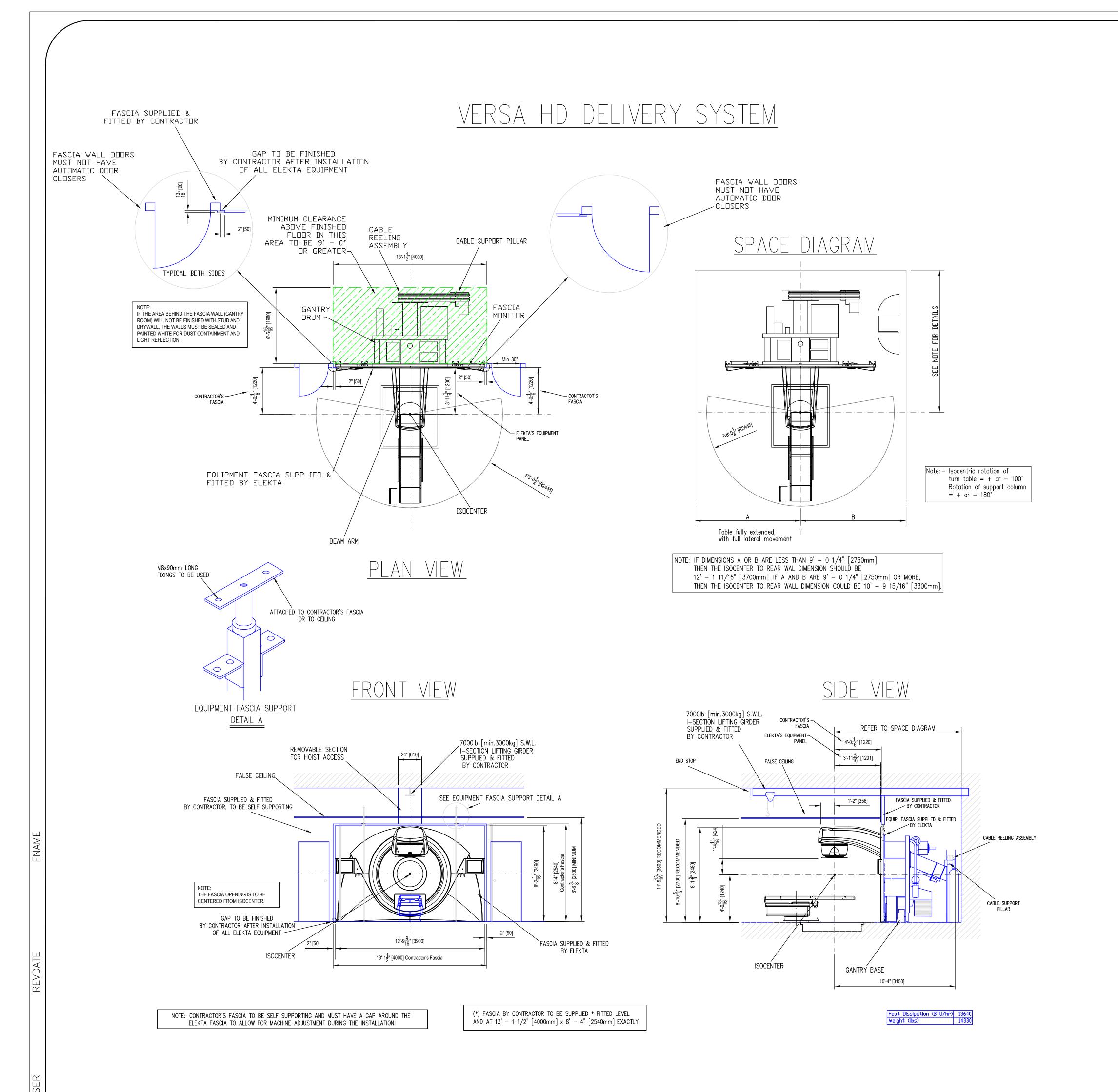
PROJECT NUMBER ONC13098 QUOTATION NUMBER 2012-9165-SC v. 3 QUOTATION DATE April 27, 2012

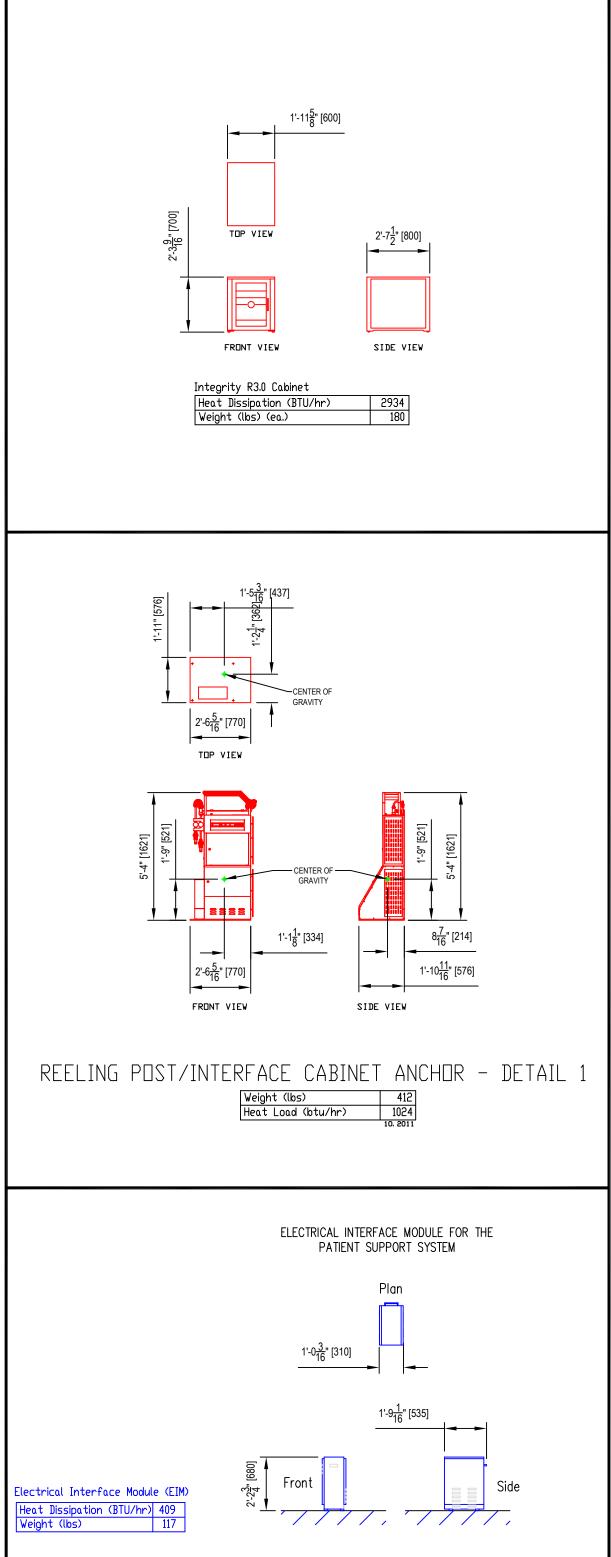
CUSTOMER APPROVAL ELEKTA APPROVAL

| Project | Sheet |
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| Finals Complete: | 1 A1 |
| December 9, 2013 | Equipment Plan |
| Scale 1/4" = 1'-0" | (Sheet 2 of 12) |

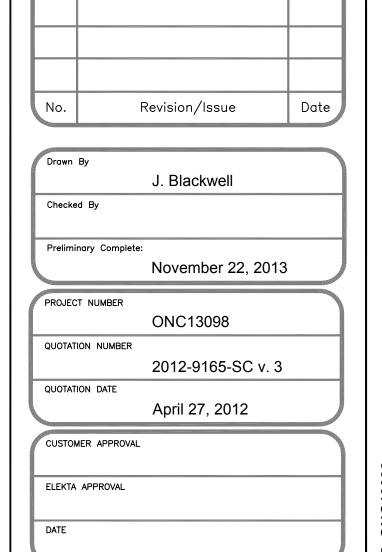
PROJECT: ONC13098

FLOOR TRENCH









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JHH - B192
Finals Complete:
December 9, 2013

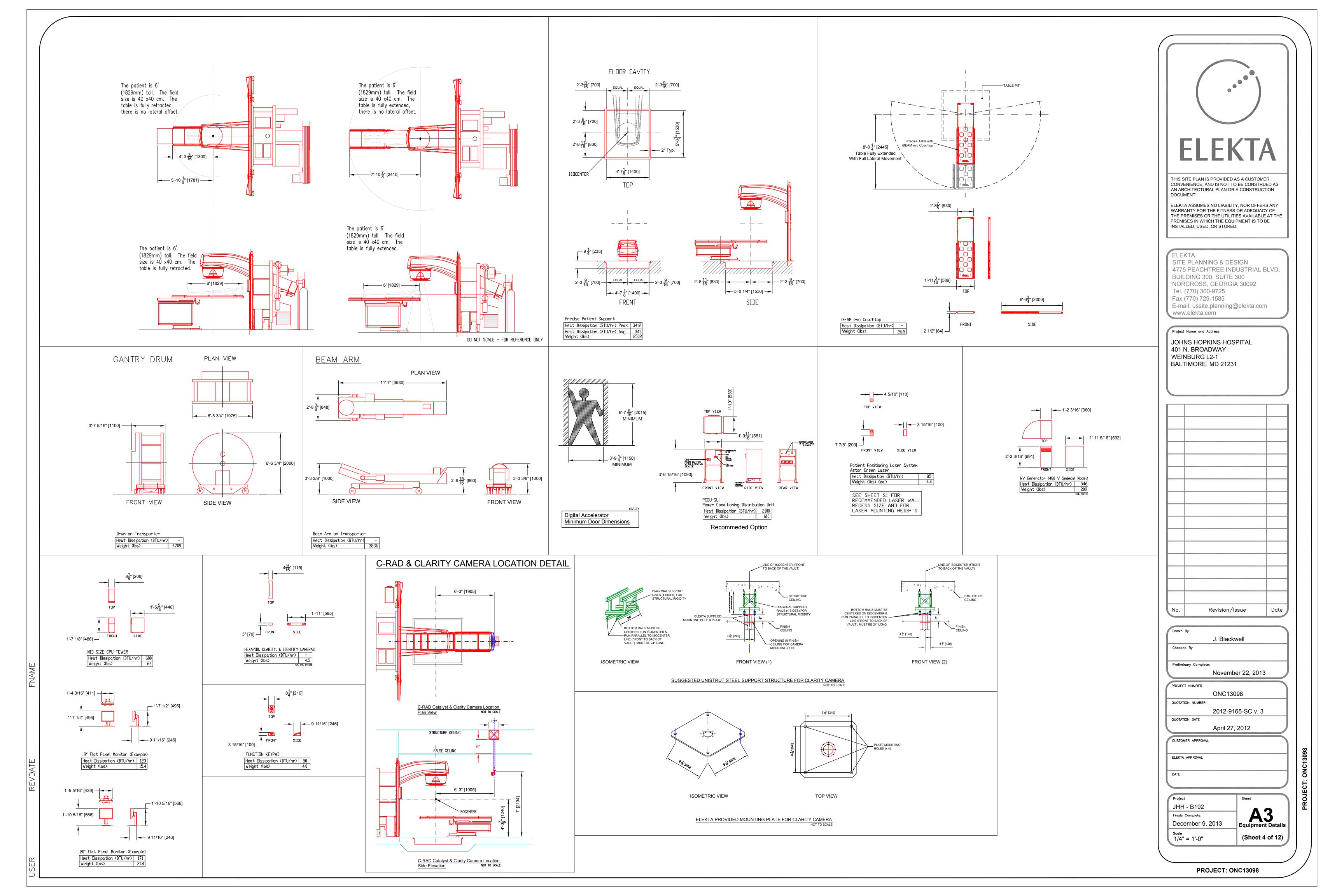
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Equipment Details

(Sheet 3 of 12)

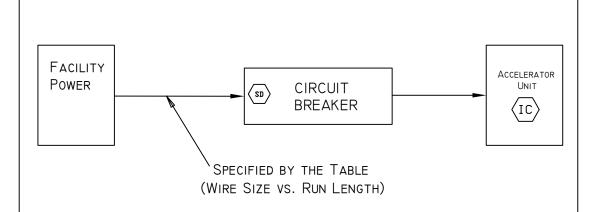




LINEAR ACCELERATOR OR WITH PCDU POWER SUPPLY CONFIGURATION STANDARD TRANSFORMER CAPACITY: PRIMARY CIRCUIT BREAKER: 3 POLE, 40 AMPS (480VAC) 3 POLE, 100 AMPS (208VAC) SECONDARY CIRCUIT BREAKER: 3 POLE, 70 AMPS (415VAC - PART OF PCDU) MAXIMUM SYSTEM DEMAND: 16KVA (STAND-BY) 24KVA (IMAGING) 36KVA (INRUSH) RECOMMENDED CONDUCTOR SIZES FOR 0.5% IMPEDANCE OF BRANCH CONDUCTORS (75°C COPPER CONDUCTORS)

#6AWG 74ft #4AWG N/A 158ft 118ft #2AWG 37ft 149ft 199ft #1AWG 47ft 188ft 251ft #1/0AWG 59ft 236ft 316ft #2/0AWG 75ft 298ft 399ft #3/0AWG 376ft 503ft 119ft #4/0AWG 474ft 634ft 250MCM 150ft 598ft 800ft 300MCM 706ft 945ft INSTANTANEOUS 66.6A 33.4A 28.9A CURRENT 0.050Ω MAXIMUM PH-PH 0.300Ω 0.220Ω IMPEDANCE 3.3V MAXIMUM LOAD 10.0V 6.4V **VOLTAGE DROP** % REGULATION AT 1.6% 2.4% 1.3% MAXIMUM LOAD

RECOMMENDED CONDUCTOR SIZES, AS LISTED IN THE TABLE ABOVE, ASSUME A PCDU TO PRIMARY CIRCUIT BREAKER DISTANCE OF NO GREATER THAN 15 TO 20 FEET [4572 TO 6096 mm]. IF THE CIRCUIT BREAKER IS TO BE LOCATED AT A GREATER DISTANCE AWAY FROM THE PCDU, THE ADDITIONAL DISTANCE MUST BE CONSIDERED WHEN DETERMINING THE APPROPRIATE CONDUCTOR SIZE.



SYNERGY X-RAY GENERATOR POWER SUPPLY CONFIGURATION

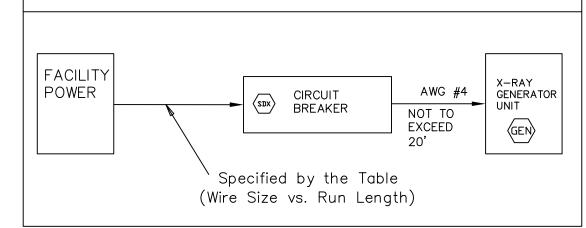
| INPUT POWER: PRIMARY CIRCUIT BREAKER: MAXIMUM POWER DEMAND: STANDBY POWER CONSUMPTION: | 480VOLTS, 3 PHASE, 4 3 POLE, 70 40KVA 500W | • |
|---|--|--------------|
| RECOMMENDED CONDUCTOR SIZES FOR 0.5% CONDUCTORS (75°C COPPER CONDUCTORS) | 6 IMPEDANC | CE OF BRANCH |
| SIZE | | 480VAC |
| #4AWG | | 182ft |
| #3AWG | | 230ft |
| #1/0AWG | | 290ft |
| #2/0AWG | | 365ft |
| | | |
| INSTANTANEOUS | | 48.11A |
| CURRENT | | |
| | | |
| MAXIMUM PH-PH | | 0.320Ω |
| IMPEDANCE | | |
| | | |
| MAXIMUM LOAD | | 24.0V |
| VOLTAGE DROP | | |
| | | |
| | | |

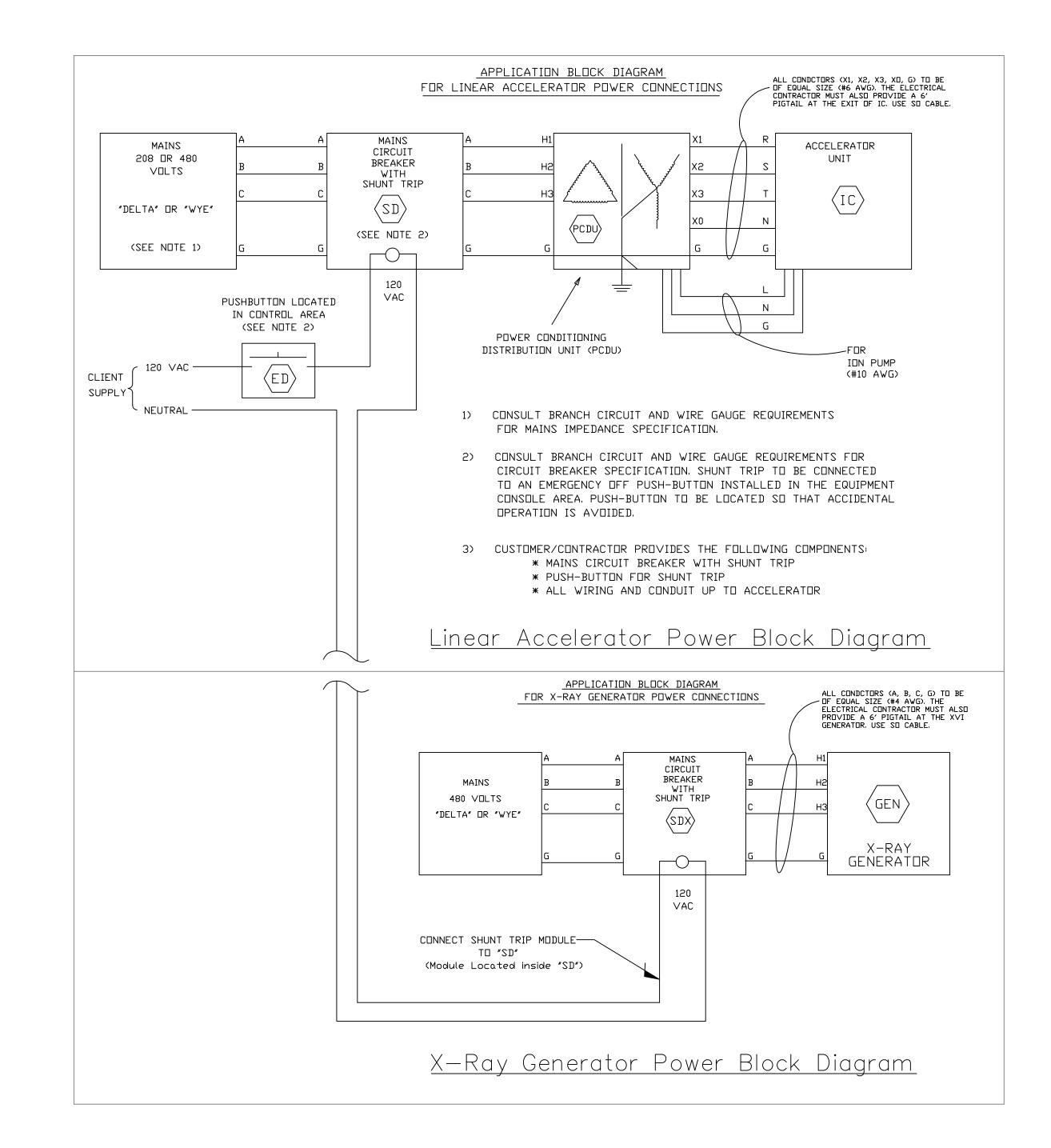
RECOMMENDED CONDUCTOR SIZES, AS LISTED IN THE TABLE ABOVE, ASSUME A CIRCUIT BREAKER TO X-RAY GENERATOR DISTANCE OF NO GREATER THAN 20 FEET [6096 mm]. IF THE CIRCUIT BREAKER IS TO BE LOCATED AT A GREATER DISTANCE AWAY FROM THE X-RAY GENERATOR, THE ADDITIONAL DISTANCE MUST BE CONSIDERED WHEN DETERMINING THE APPROPRIATE CONDUCTOR SIZE.

5.0%

% REGULATION AT

MAXIMUM LOAD





POWER QUALITY GUIDELINES

. POWER SUPPLIED TO RADIATION THERAPY EQUIPMENT MUST BE SEPARATE FROM POWER FEEDS TO AIR CONDITIONING, ELEVATORS, OUTDOOR LIGHTING, AND OTHER FREQUENTLY SWITCHED OR MOTORIZED LOADS. SUCH LOADS CAN CAUSE WAVEFORM DISTORTION AND VOLTAGE FLUCTUATIONS THAT CAN AFFECT EQUIPMENT PERFORMANCE.

2. THE FOLLOWING DEVICES PROVIDE A HIGH IMPEDANCE, NON-LINEAR VOLTAGE SOURCE, WHICH MAY AFFECT EQUIPMENT PERFORMANCE:

-STATIC UPS FILTERS -SERIES FILTERS -POWER CONDITIONERS -VOLTAGE REGULATORS

DO NOT INSTALL SUCH DEVICES AT THE MAINS SUPPLY TO RADIATION THERAPY EQUIPMENT WITHOUT CONSULTING ELEKTA INSTALLATION OR SERVICE PERSONNEL

3. LINE IMPEDANCE IS THE COMBINED RESISTANCE AND INDUCTANCE OF THE ELECTRICAL SYSTEM, AND INCLUDES THE IMPEDANCE OF THE POWER SOURCE. THE FACILITY DISTRIBUTION SYSTEM, AND ALL PHASE CONDUCTORS BETWEEN THE SOURCE AND THE RADIATION THERAPY EQUIPMENT.

ELEKTA PUBLISHES RECOMMENDED CONDUCTOR SIZES BASED ON EQUIPMENT POWER REQUIREMENTS, ACCEPTABLE VOLTAGE DROPS, AND ASSUMPTIONS ABOUT THE FACILITY SOURCE IMPEDANCE.

THE MINIMUM CONDUCTOR SIZE IS BASED ON TOTAL LINE IMPEDANCE AND NEC REQUIREMENTS. UNLESS IMPEDANCE CALCULATIONS ARE PERFORMED BY AN ELECTRICAL ENGINEER, THE RECOMMENDED VALUES MUST BE USED.

SUPPLY LINE CONFIGURATION FOR PCDU EQUIPPED

ACCELERATORS 3 PHASE, 3 WIRE POWER, GROUND, WYE SUPPLY CONFIGURATION NOMINAL LINE VOLTAGE: 480, 240 OR 208 VAC, 60 HZ + OR - 6% STEADY STATE INCLUDING SAGS LINE VOLTAGE VARIATION: AND SURGES 1% MAXIMUM OF NOMINAL VOLTAGE LINE VOLTAGE BALANCE: BETWEEN PHASES FREQUENCY VARIATION: + OR - 1% (+ OR - 0.6 HZ) **INSTANTANEOUS VOLTAGE** 1000 VPK ABOVE PHASE-NEUTRAL RMS VOLTAGE ABSOLUTE MAXIMUM. NO MORE THAN 1 PER HOUR TO EXCEED 500 VPK 3.0 VOLTS RMS (5 KHZ - 5 MEGHZ) HIGH FREQUENCY NOISE: GROUND CONDUTOR IMPEDENCE: 0.1 OHMS @ 60HZ TO NEUTRAL GROUND

ELECTRICAL REQUIREMENTS NOTES

BONDING POINT.

ELECTRICAL POWER DISTRIBUTION FEEDING THE RADIATION THERAPY EQUIPMENT SHALL COMPLY WITH THE FOLLOWING:

NOMINAL VOLTAGES PER ANSI C84.1

PHASE CONDUCTORS TO BE SIZED FOR IMPEDANCE PER ELEKTA RECOMMENDATIONS.

TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) IS HIGHLY RECOMMENDED. THE ELEKTA PCDU PROVIDES COMPREHENSIVE TVSS PROTECTION.

NEUTRAL AND GROUND CONDUCTORS TO BE SAME SIZE AS PHASE CONDUCTORS UNLESS NOTED.

METAL CONDUIT MAY NOT BE USED AS THE SOLE EQUIPMENT GROUNDING

ANSI/NFPA 70 - NATIONAL ELECTRICAL CODE

ANSI/NFPA 99 - HEALTHCARE FACILITIES

ELECTRICAL NOTES

1. THE CONTRACTOR WILL SUPPLY AND INSTALL ALL BREAKERS, SHUNT TRIP AND INCOMING POWER TO THE BREAKERS. THE EXACT LOCATION OF THE BREAKERS AND SHUNT TRIPS WILL BE DETERMINED BY THE ARCHITECT OR CONTRACTOR.

2. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL PULL BOXES, RACEWAYS, CONDUIT RUNS, COVERS, ETC. CONDUIT/RACEWAYS
MUST BE FREE FROM BURRS AND SHARP EDGES OVER ITS ENTIRE LENGTH. A GREENLEE PULL STRING/MEASURING TAPE (PART NO. 435, OR EQUIVALENT) SHALL BE PROVIDED WITH

ALL PRE-TERMINATED, CUT TO LENGTH CABLES, WILL BE SUPPLIED AND INSTALLED BY ELEKTA, INC. ALL CABLES TO THE BREAKERS, WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. SUBJECT TO LOCAL ARRANGEMENTS.

4. ELECTRICAL RACEWAY SHALL BE INSTALLED WITH REMOVABLE COVERS. THE RACEWAY SHOULD BE ACCESSIBLE FOR THE ENTIRE LENGTH. IN CASE OF NON-ACCESSIBLE FLOORS, WALLS AND CEILINGS, AN ADEQUATE NUMBER OF ACCESS HATCHES SHOULD BE SUPPLIED TO ENABLE INSTALLATION OF CABLING. APPROVED CONDUITS MAY BE SUBSTITUTED. ALL RACEWAY WILL BE DESIGNED IN A MANNER THAT WILL NOT ALLOW CABLES TO FALL OUT OF THE RACEWAY WHEN THE COVERS ARE REMOVED. IN MOST CASES, THIS WILL REQUIRE ABOVE-CEILING RACEWAY TO BE INSTALLED WITH THE COVERS REMOVABLE FROM THE TOP. RACEWAY SYSTEM AS ILLUSTRATED ON THIS DRAWING ARE BASED UPON LENGTH OF FURNISHED CABLES. ANY CHANGES IN ROUTING OF RACEWAY SYSTEM COULD EXCEED MAXIMUM ALLOWABLE LENGTH OF FURNISHED CABLES. CONDUIT OR RACEWAY ABOVE-CEILING MUST BE KEPT AS NEAR TO FINISHED CEILING AS POSSIBLE.

5. CONDUIT SIZES SHALL BE VERIFIED BY THE ARCHITECT, ELECTRICAL ENGINEER OR CONTRACTOR, IN ACCORDANCE WITH LOCAL OR NATIONAL ELECTRICAL CODES, WHICHEVER GOVERN.

6. ALL SECTIONS OF RACEWAY AND CONDUIT SHALL BE GROUNDED WITH AN INDEPENDENT #6 A.W.G. GREEN WIRE THAT IS TO BE ATTACHED USING SOLDERLESS LUGS. ALL CEILING MOUNTED STRUCTURAL SUPPORT MEMBERS AND CEILING PLATES SHALL ALSO BE GROUNDED. ALL GROUNDING CONNECTIONS, TERMINALS, ETC. SHALL BE INSTALLED IN A MANNER TO PROVIDE ACCESSIBILITY FOR INSPECTIONS, MAINTENANCE, REPAIR,

7. ALL POWER CONNECTIONS TO THE LINEAR ACCELERATOR MUST BE MADE BY A CERTIFIED ELECTRICIAN.

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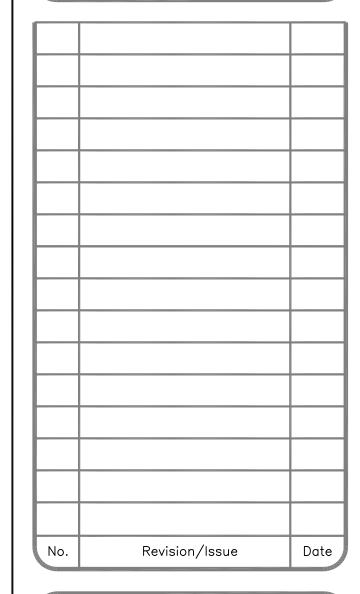
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ELEKTA SITE PLANNING & DESIGN 4775 PEACHTREE INDUSTRIAL BLVD. BUILDING 300, SUITE 300 NORCROSS, GEORGIA 30092

Tel. (770) 300-9725 Fax (770) 729-1585 www.elekta.com

Project Name and Address JOHNS HOPKINS HOSPITAL 401 N. BROADWAY WEINBURG L2-1

BALTIMORE, MD 21231



| Drawn By | |
|-----------------------|-------------------|
| | J. Blackwell |
| Checked By | |
| Preliminary Complete: | |
| | November 22, 2013 |
| PROJECT NUMBER | |
| | ONC13098 |
| QUOTATION NUMBER | |
| | 2012-9165-SC v. 3 |
| QUOTATION DATE | |
| | April 27, 2012 |
| CUSTOMER APPROVAL | |
| | |

ELEKTA APPROVAL

Project

None

| DATE | |
|------------------|---------------|
| | |
| Project | Sheet |
| JHH - B192 | |
| Finals Complete: | |
| December 9, 2013 | Electrical Sp |

(Sheet 5 of 12)

CHILLER CONNECTION OPTION B:

USE THIS OPTION TO CONTROL THE CHILLER BY THE LINAC. THE RELAY AND THE SOLENOIDS USE A COMMON VOLTAGE (120VAC).

CHILLER REMOTE START

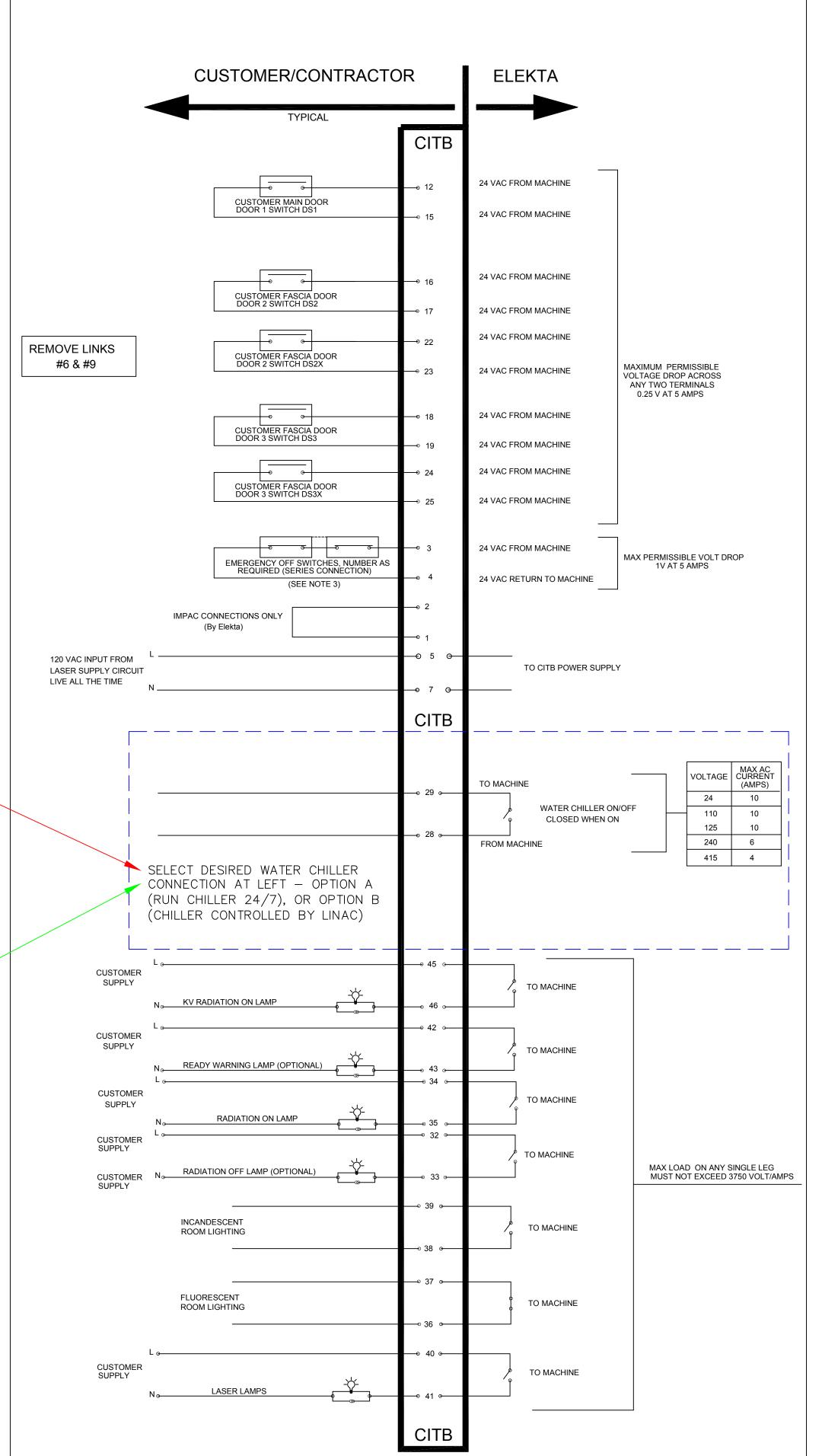
O

CHILLED WATER SUPPLY SYSTEM RELAY (RELAY BY CONTRACTOR)

SHUT OFF SOLENOIDS

No

CLIENT INTERFACE TERMINAL BOX (CITB) SCHEMATIC



THE CLIENT INTERFACE TERMINAL BOX (CITB)

THE INTERFACE BETWEEN THE CUSTOMER'S WIRING AND THE LINEAR ACCELERATOR IS A BOX MOUNTED PRINTED CIRCUIT BOARD (CITB), MOUNTED NEXT TO THE MAINS DISCONNECT. THIS CITB IS SUPPLIED BY ELEKTA AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND

A BOX AND CIRCUIT BOARD. THE CITB REQUIRES 120VAC, THE POWER CAN BE SUPPLIED BY THE LASER CIRCUIT, BUT DOES NOT ALWAYS COME FROM THE LASER CIRCUIT.

SAFETY INTERLOCKS

THE LINEAR ACCELERATOR INCORPORATES A NUMBER OF INTERLOCKS INCLUDING SOME WHICH ARE AVAILABLE FOR THE CUSTOMER'S USE. THE CUSTOMER/CONTRACTOR IS REQUIRED TO SUPPLY, INSTALL AND TEST, PRIOR TO INSTALLATION, THOSE PARTS OF THE INTERLOCK CHAIN WHICH ARE OUTSIDE THE LINEAR ACCELERATOR, AND THESE SHOULD BE TERMINATED IN THE CLIENT INTERFACE TERMINAL BOX (CITB).

MAZE INTERLOCKS

THE CUSTOMER MUST PROVIDE A MECHANISM PER DOOR OR GATE AT THE MAZE ENTRANCE TO THE TREATMENT ROOM SO THAT THE MACHINE OUTPUT WILL BE SWITCHED OFF AUTOMATICALLY IF ANY PERSON ATTEMPTS TO ENTER WHILE THE MACHINE IS OPERATING. THESE DEVICES CAN BE POSITIVE ACTION SWITCHES, OPERATED BY A BARRIER ACROSS THE MAZE, OR A MORE ELABORATE SYSTEM OF PHOTO-ELECTRIC DEVICES. WHATEVER THE DEVICES, THEY MUST BE FAIL SAFE. THE FINAL CONTACTS MUST BE CAPABLE OF SWITCHING 7.5 AMPS AT 24 VOLTS AC.

CONTRACTOR'S FASCIA DOORS

THE CONTRACTOR'S FASCIA WHICH SEPARATES THE TREATMENT AREA FROM THE REAR OF THE LINEAR ACCELERATOR GANTRY, WILL BE ACCESSIBLE BY MEANS OF ONE OR TWO DOORS. EACH DOOR MUST BE INTERLOCKED WITH A FAIL-SAFE INTERLOCK SWITCH. THESE INTERLOCKS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR AND WIRED BACK TO THE CLIENT INTERFACE TERMINAL BOX (CITB). THE FINAL CONTACTS SHOULD BE CAPABLE OF SWITCHING 7.5 AMPS AT 24 VOLTS AC.

GENERAL INTERLOCKING

INTERLOCKS AND BARRIERS MUST BE PROVIDED IN ANY AREA WHICH IS DEEMED UNSAFE BY LOCAL AUTHORITIES AND SITE CONDITIONS. AN EXAMPLE OF THIS SITUATION MAY BE AN EASEMENT UNDER THE TREATMENT ROOM, OR ACCESS TO A ROOF OR ROOM THAT HAS BEEN DESIGNATED A RESTRICTED AREA BY THE CUSTOMER OR HIS ADVISERS. IT IS THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR TO PROVIDE, INSTALL, WIRE, AND TEST ALL INTERLOCKS TO THE CLIENT INTERFACE TERMINAL BOX (CITB) PRIOR TO THE INSTALLATION OF THE LINEAR ACCELERATOR.

MEDGENCY OFF SWITCHING

SAFETY GUIDELINES REQUIRE THAT EASILY RECOGNIZABLE EMERGENCY OFF SWITCHES ARE TO BE POSITIONED IN THE TREATMENT ROOM AND ALSO AT THE TREATMENT CONTROL TERMINAL. IN AN EMERGENCY, ANY EMERGENCY OFF SWITCH CAN BE USED TO REMOVE ALL POWER TO THE RADIATION AND MOVEMENTS CIRCUITS OF THE LINEAR ACCELERATOR. THIS IS ACHIEVED BY CONNECTING ALL EMERGENCY OFF DEVICES IN SERIES WITH THE ENERGIZING COIL. THE 'MAINS ON' CONTACTOR IN THE INTERFACE CABINET, VIA THE CLIENT INTERFACE BOX. THE EMERGENCY OFF SWITCHES MUST BE A TYPE THAT REQUIRES RESET BY A MANUAL OPERATION, AND BE PROVIDED WITH A PROTECTIVE GROUNDED ENCLOSURE CASE.

WARNING LIGHT

TO WARN PERSONNEL IN THE VICINITY WHEN THE LINEAR ACCELERATOR IS IN USE AND EMITTING RADIATION, THE CUSTOMER/CONTRACTOR MUST INSTALL SUITABLE WARNING LIGHTS IN PROMINENT PLACES (INCLUDING THE ROOF AND BASEMENT, ETC. IF APPLICABLE). THESE SHOULD BE WIRED BACK TO THE CLIENT INTERFACE TERMINAL BOX (CITB).

LIGHTING

THE LIGHTING IN THE TREATMENT ROOM SHOULD NORMALLY HAVE SUFFICIENT INTENSITY TO PERMIT THE PATIENT PREPARATION, AND TO ALLOW OBSERVATION VIA VIDEO DURING TREATMENT. DURING PATIENT PREPARATION, THE LIGHTING IS USUALLY SWITCHED TO A VERY LOW LEVEL (I.E. 50 TO 100 LUX) TO ENABLE THE CUSTOMER TO USE OPTICAL AIDS.

A SWITCH IS INCLUDED ON THE MOVEMENTS CONTROLLER FOR THE CUSTOMER TO SWITCH THE ROOM LIGHTS TO A PRE-DETERMINED LEVEL. THE CONTRACTOR SHOULD CONNECT THE TREATMENT ROOM LIGHT DIMMER CONTROL CIRCUIT TO THE CLIENT INTERFACE TERMINAL BOX (CITB). ISOCENTER LIGHTS MAY ALSO BE OPERATED VIA THE CLIENT INTERFACE TERMINAL BOX (CITB) BY A SECOND SWITCH ON THE MOVEMENTS CONTROLLER.

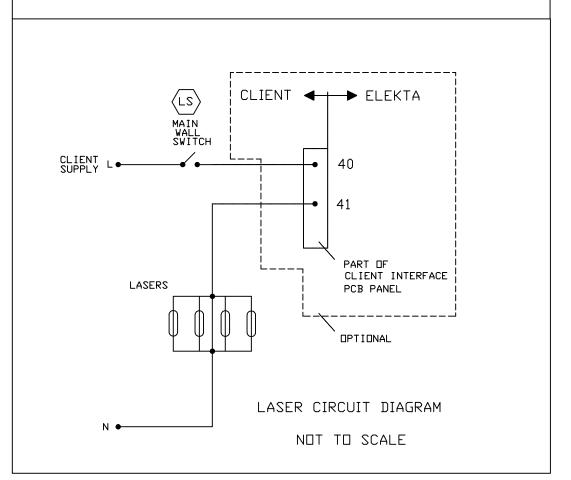
CARE MUST BE TAKEN FOR LIGHTING ARRANGEMENTS IN TREATMENT CONTROL AREA TO AVOID POSSIBLE GLARE ON THE TREATMENT CONTROL TERMINAL MONITORS.

NOTES

1. ALL WIRING TO THE CLIENT INTERFACE TERMINAL BOX (CITB), TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR. LAND ALL WIRES ON THE CLIENT INTERFACE PRINTED CIRCUIT BOARD.

2. RESISTIVE VALUE OF ENTIRE EMERGENCY OFF CIRCUIT, AS MEASURED AT TERMINALS 3 & 4 AT CITB, MUST BE NO MORE THAN 1 OHM.

3. THE CITB DOES NOT SUPPLY POWER FOR THE "RADIATION ON" LAMP, SOLENOIDS, ETC. IT ONLY SWITCHES THE POWER VIA DRY CONTACTS.



LASER ELECTRICAL SUPPLY

EACH LASER IS EQUIPPED WITH A LENGTH DF ELECTRICAL CORD AND A STANDARD PLUG, THEREFORE A 120VAC CONVENIENCE DUTLET IS REQUIRED AT THE POSITION OF EACH LASER. IT IS RECOMMENDED THAT THIS DUTLET BE SWITCHED VIA COMMON ON/OFF WALL SWITCH LOCATED AT A CONVENIENT POSITION IN THE ROOM. IT IS ALSO POSSIBLE TO SWITCH THE LASERS ON/OFF VIA THE ACCELERATOR.

(SEE CLIENT INTERFACE TERMINAL BOX SCHEMATIC SHEET E1a)



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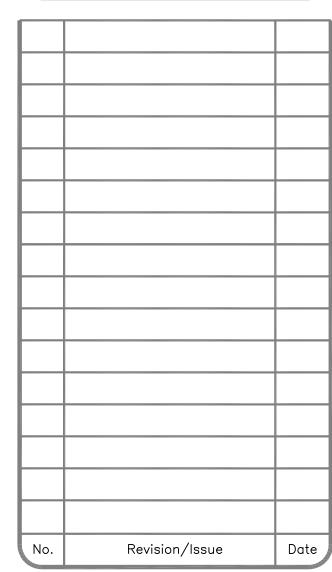
FLEKTA

SITE PLANNING & DESIGN
4775 PEACHTREE INDUSTRIAL BLVD.
BUILDING 300, SUITE 300
NORCROSS, GEORGIA 30092

Tel. (770) 300-9725 Fax (770) 729-1585 www.elekta.com

Project Name and Address

JOHNS HOPKINS HOSPITAL 401 N. BROADWAY WEINBURG L2-1 BALTIMORE, MD 21231



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| | J. Blackwell |
| Checked By | |
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| Preliminary Complete: | |
| | November 22, 2013 |
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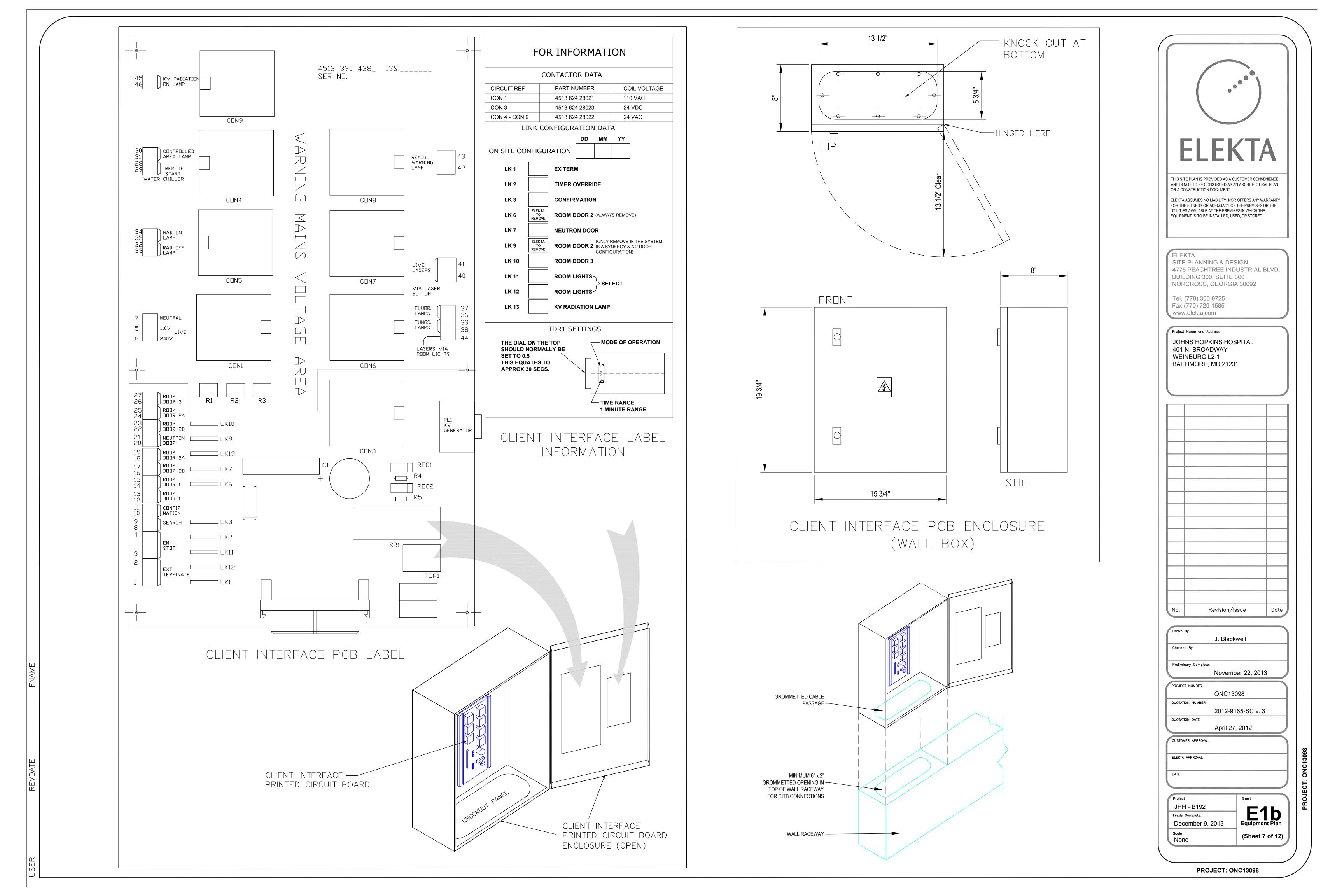
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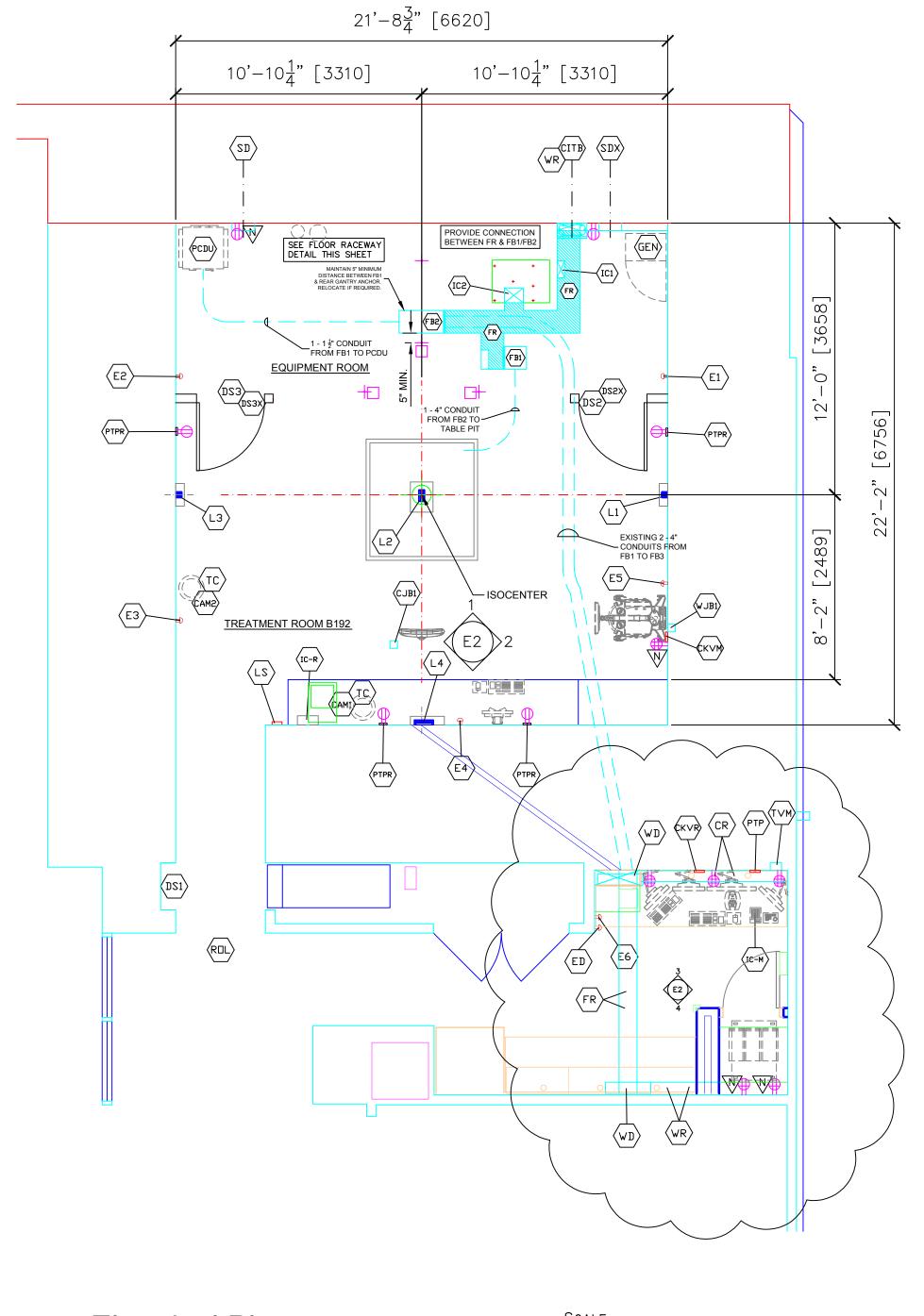
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December 9, 2013

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NONE

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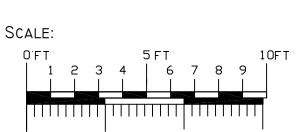
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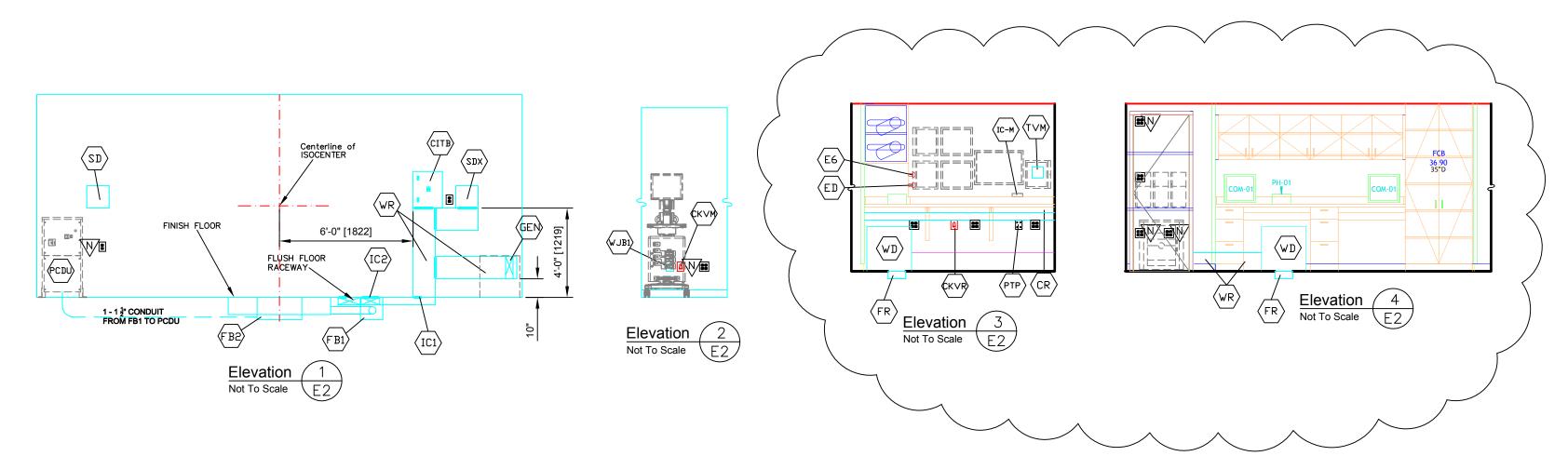




Electrical Plan
Johns Hopkins Hospital
Baltimore, MD - Rev. 01.08.2014

Minimum Finish Ceiling Height: 8'-6 3"





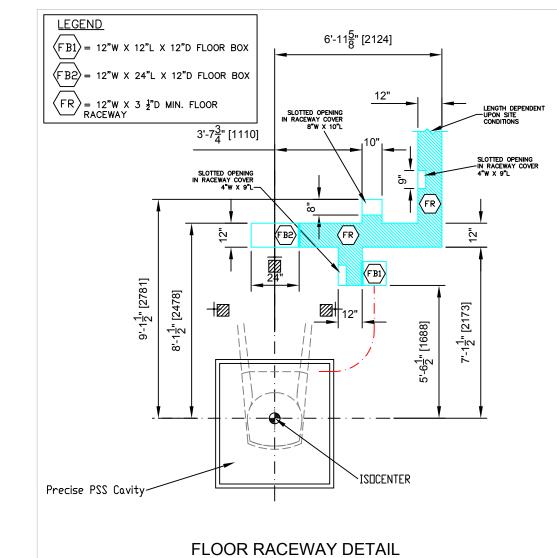
CONDUITS REQUIRED

GENERAL NOTES

1. ALL CONDUIT RUNS MUST TAKE MOST DIRECT ROUTE, POINT TO POINT

A CONDUIT SUPPLIED/INSTALLED BY CONTRACTOR — ELEKTA CABLES INSTALLED BY ELEKTA
CONDUIT SUPPLIED/INSTALLED BY CONTRACTOR — ELEKTA CABLES INSTALLED BY CONTRACTOR
CONDUIT AND CABLES SUPPLIED AND INSTALLED BY CONTRACTOR
CONDUIT EXISTING — CABLES SUPPLIED AND INSTALLED BY ELEKTA

CONDUIT EXISTING - CABLES SUPPLIED BY ELEKTA, INSTALLED BY CONTRACTOR CONDUIT EXISTING - CABLES SUPPLIED AND INSTALLED BY CONTRACTOR CONDUIT SPECIAL REQUIREMENTS $A \mid 1 \mid \langle CITB \rangle \mid \langle IC \rangle$ N/A Raceway used from "CITB" to "IC" C 2 CITB ROL 3/4" SEE DETAIL ON SHEET E1a FOR CHILLED WATER SYSTEM C 3 (CITB) (WC) 3/4" CONTROLS (SEE SHEET E1a) LIGHT CIRCUIT (SEE DETAIL ON C 4 CITB LC 3/4" SHEET E1a) C 5 CITB DS1 3/4" DOOR SWITCHES C 6 (CITB) (DSS) 3/4" DOOR SWITCHES С 7 (СІТВ) (ДСЗ) 3/4" DOOR SWITCHES LASER MAIN POWER ON/OFF C 8 CITB (LS) 3/4" (SEE DETAIL ON SHEET E1a) C 9 (LS) (L1) 3/4" LASER RUN C 10 (L1) (L2) 3/4" LASER RUN C 11 (L2) (L3) 3/4" LASER RUN 3/4" LASER RUN C 13 CITB E1 3/4" SAFETY CIRCUIT $C \mid 14 \mid \langle E1 \rangle \langle E2 \rangle$ 3/4" SAFETY CIRCUIT C 15 (E2) (E3) 3/4" SAFETY CIRCUIT C 16 (E3) (E4) 3/4" SAFETY CIRCUIT C 17 $\langle E4 \rangle \langle E5 \rangle$ 3/4" SAFETY CIRCUIT C 18 (E5) (E6) 3/4" SAFETY CIRCUIT С 19 (Е6) (СІТВ) 3/4" SAFETY CIRCUIT C SD SD ED 3/4" SHUNT TRIP CIRCUIT C 21 SD CDU 2" SEE SHEET E1 LEAVE 6' PIGTAIL (SEE SHEET E1) -USE MULTISTRAND HIGH FLEX CABLE С 22 (СВО) (ГВ2) 1 1/2" (WELDER'S CABLE) C 23 SD POWER PER NEC PER NEC PER NEC A 24 PIT (FBI) 4" 5′-4″ D 25 FB2 WD CONDUITS TO BE WATER TIGHT 4" | 68'-10" | C 26 TVM CAMI 2 CATS CABLES TERMINATED WITH RJ45 WALL PLATES ON BOTH ENDS 2 CATS CABLES TERMINATED WITH RJ45 WALL PLATES ON BOTH ENDS C 27 (TVM) (CAM2) INTERCOM MASTER TO REMOTE UNIT LOC.
IN TREATMENT ROOM. EXACT LOCATION 3/4" TO BE DETERMINED DURING INSTALLATION. CATS CABLE For CAT5 Cable C 30 SDX HOSP PER NEC PER NEC PER NEC TO HOSPITAL DISTRIBUTION PANEL



See Electrical Plan for Additional Detail

C 31 SDX GEN SEE NOTE SEE NOTE

3/4"

3/4"

3/4"

C 35 (CILB) (D25X)

C 33 (CITB) (DS3X)

A 34 WJBI CJBI

A 35 (KVM) (KVR)

VIA WR2 TO GEN - USE MULTISTRAND HIGH FLEX CABLE (WELDER'S CABLE)

DOOR SWITCH

DOOR SWITCH

CLARITY CAMERA CONNECTION

CLARITY REMOTE TERMINAL

ELECTRICAL LEGEND [

A FURNISHED AND INSTALLED BY ELEKTA
B FURNISHED BY CUSTOMER/CONTRACTOR AND INSTALLED BY CUSTOMER/CONTRACTOR
CINSTALLED BY CUSTOMER/CONTRACTOR
D FURNISHED BY ELEKTA AND INSTALLED BY CONTRACTOR
E EXISTING
F SUPPLIED BY CUSTOMER

ITEM SYMBOL DETAIL SHEET

DESCRIPTION

B SD 3 PHASE SHUNT TRIP CIRCUIT BREAKER. SEE DETAILS ON SHEET E1. EXACT LOCATION TO BE DETERMINED AT TIME OF INSTALLATION.

B PUSH BUTTON FOR SHUNT TRIP CIRCUIT BREAKER SD. SEE DETAILS ON SHEETS E1 & E1a. EXACT LOCATIONS DETERMINED AT TIME OF INSTALLATION.

B INTERFACE CABINET, 4"W x 10"L GROMMETTED CABLE PASSAGE IN COVER OF FLOOR RACEWAY

B INTERFACE CABINET, 8"W x 10"L GROMMETTED CABLE PASSAGE IN COVER OF FLOOR RACEWAY

B 120VAC OUTLET FOR LASER - SWITCHED VIA LS & ACCELERATOR

B LS WALL SWITCH FOR LASER MAIN POWER ON/OFF

EMERGENCY OFF PUSHBUTTON FOR RADIATION AND MOVEMENTS.

EXACT LOCATION TO BE DETERMINED AT TIME OF INSTALLATION

(SEE NOTE 2, SHEET E1a: RESISTANCE SPECIFICATION)

DOOR SWITCH, CONTACTS MUST BE CAPABLE OF SWITCHING 7.5
AMPS AT 24VAC. SIZE & TYPE OF SWITCHES, AS PER SITE
CONDITIONS. SEE DETAILS ON SHEET E1a.

B RADIATION ON LAMP (MODEL/TYPE DETERMINED BY LOCAL CODE)

CLIENTS INTERFACE TERMINAL BOX, 15 \(\frac{3}{4}\)"W x 19 \(\frac{3}{4}\)"L x 8"D WALL JUNCTION BOX, 4' A.F.F. TO BOTTOM OF BOX. BOX CONTAINS SWITCHING CIRCUITRY TO CONTROL VOLTAGES SUPPLIED BY THE CLIENT. SEE DETAILS ON SHEETS E1, E1a, & E1b.

B | 12"W x MIN. 3 $\frac{1}{2}$ "D FLOOR TRENCH RACEWAY, FLUSH MOUNTED WITH $\frac{1}{4}$ " THICK STEEL COVER PLATE

B \mathbb{Q} 12"W x 3 $\frac{1}{2}$ "D WALL RACEWAY, SURFACE MOUNTED, WITH REMOVABLE SCREW-TYPE COVER PLATE.

B DUPLEX CONVENIENCE OUTLET, 120VAC HOSPITAL SERVICE

B QUADPLEX CONVENIENCE OUTLET, 120VAC HOSPITAL SERVICE

B QUADPLEX CONVENIENCE OUTLET, 120VAC HOSPITAL SERVICE

12"W x 12"L x 12"D FLOOR BOX WITH REMOVABLE \(\frac{1}{4}\)" THICK STEEL COVERPLATE, FLUSH MOUNTED WITH FINISH FLOOR

E FB2 12"W x 24"L x 12"D FLOOR BOX WITH REMOVABLE \(\frac{1}{4}\)" THICK STEEL COVERPLATE, FLUSH MOUNTED WITH FINISH FLOOR

B CONNECT WITH FLEX CONDUIT INTO PCDU CABINET

B N NETWORK, FULLY FUNCTIONAL RJ45B OUTLET 100 BASE T SYSTEM

B (TVM) WALL JUNCTION BOX FOR CCTV MONITOR(S). SIZE AS REQUIRED.

B WALL/CEILING JUNCTION BOX FOR CCTV CAMERA(S). SIZE AS REQUIRED. CONTRACTOR TO INSTALL CATS CABLE FROM

TREATMENT ROOM TO CONTROL ROOM TERMINATED ON BOTH ENDS WITH RJ45 WALL PLATES.

120VAC CONVENIENCE OUTLETS PROVDING POWER TO CCTV

B TC 120VAC CONVENIENCE OUTLETS PROVDING POWER TO CCTV CAMERAS (FLUSH MOUNTED IN WALL RECESS)

B CONNECTION FOR INTERCOM MAIN STATION. PROVIDE SINGLE GANG BOX. CONTRACTOR TO INSTALL CATS CABLE BETWEEN MAIN UNIT IN CONTROL ROOM & REMOTE UNIT IN TREATMENT ROOM. PROVIDE A 10' PIGTAIL IN CONTROL ROOM.

B CONNECITON FOR INTERCOM REMOTE STATION. SIZE AS REQUIRED.
CONTRACTOR TO INSTALL CATS CABLE BETWEEN MAIN UNIT IN
CONTROL ROOM & REMOTE LINE IN TREATMENT ROOM

CONTROL ROOM & REMOTE UNIT IN TREATMENT ROOM.

SHIELDED CATEGORY 5, UTP CABLE CONNECTION. TERMINATE WITH QUAD RJ45 WALL PLATE. SIZE JUNCTION BOX AS REQUIRED.

B SHIELDED CATEGORY 5, UTP CABLE CONNECTION. TERMINATE WITH RJ45 WALL PLATE.

B GEN 5" x 5" CUT-OUT IN FACE OF "WR2" RACEWAY. EXACT LOCATION DETERMINED BY ELEKTA.

B SDX 3 PHASE SHUNT TRIP CIRCUIT BREAKER. SEE DETAILS ON SHEET E1.

DOOR SWITCH. CONTACTS MUST BE CAPABLE OF SWITCHING 7.5

AMPS AT 24VAC. SIZE AND TYPE OF SWITCHES, AS PER SITE

CONDITIONS. SEE DETAILS ON SHEET E1a. EXACT LOCATION TO BE

DETERMINED AT TIME OF INSTALLATION.

E WD EXISTING WALL DUCT 24" x 24" x 6"D

CR 6" WIRE CABLE TRAY MOUNTED TO BOTTOM OF COUNTERTOP FOR CABLE MANAGEMENT.

B 4" x 4" x 4"D WALL JUNCTION BOX FLUSH MOUNTED 18" A.F.F. FOR CLARITY ULTRASOUND UNIT. PROVIDE SPLIT COVER WITH 2" DIAMETER OPENING FOR CABLE PASSAGE.

B 4" x 4" x 4"D CEILING JUNCTION BOX SURFACE MOUNTED ABOVE FINISH CEILING NEXT TO ALIGNRT CAMERA 2. PROVIDE REMOVABLE SCREW TYPE COVER PLATE.

B PROVIDE A SINGLE GANG BOX FOR CATEGORY 5, UTP CABLE CONNECTION. PROVIDE HOODED COVER PLATE FOR CABLE

PASSAGE. LOCATE 18" A.F.F. NEXT TO CLARITY ULTRASOUND CART.

PROVIDE A SINGLE GANG BOX FOR CATEGORY 5, UTP CABLE CONNECTION. PROVIDE HOODED COVER PLATE FOR CABLE PASSAGE. LOCATE 6" BELOW WORK COUNTER FOR CONNECTION TO CLARITY REMOTE VIEWING STATION.

EACH LASER IS EQUIPPED WITH A LENGTH OF ELECTRICAL CORD AND A STANDARD PLUG. THEREFORE, A 120VAC CONVENIENCE DUTLET IS REQUIRED AT THE POSITION OF EACH LASER. IT IS RECOMMENDED THAT THIS OUTLET BE SWITCHED VIA A COMMON ON/OFF WALL SWITCH LOCATED AT A CONVENIENT POSITION IN THE ROOM. IT IS ALSO POSSIBLE TO SWITCH THE LASERS ON/OFF VIA THE ACCELERATOR. IF THIS OPTION IS DESIRED, THE NECESSARY HARDWARE MUST BE SUPPLIED BY THE CUSTOMER/CONTRACTOR. (SEE CLIENT INTERFACE TERMINAL BOX SCHEMATIC SHEET E1a)



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ELEKTA SITE PLANNING 8

SITE PLANNING & DESIGN 4775 PEACHTREE INDUSTRIAL BLVD. BUILDING 300, SUITE 300 NORCROSS, GEORGIA 30092

Tel. (770) 300-9725 Fax (770) 729-1585 www.elekta.com

Project Name and Address

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Drawn By

J. Blackwell

Checked By

Preliminary Complete:

November 22, 2013

PROJECT NUMBER

ONC13098

QUOTATION NUMBER

2012-9165-SC v. 3

CUSTOMER APPROVAL

ELEKTA APPROVAL

DATE

April 27, 2012

Project

JHH - B192

Finals Complete:

December 9, 2013

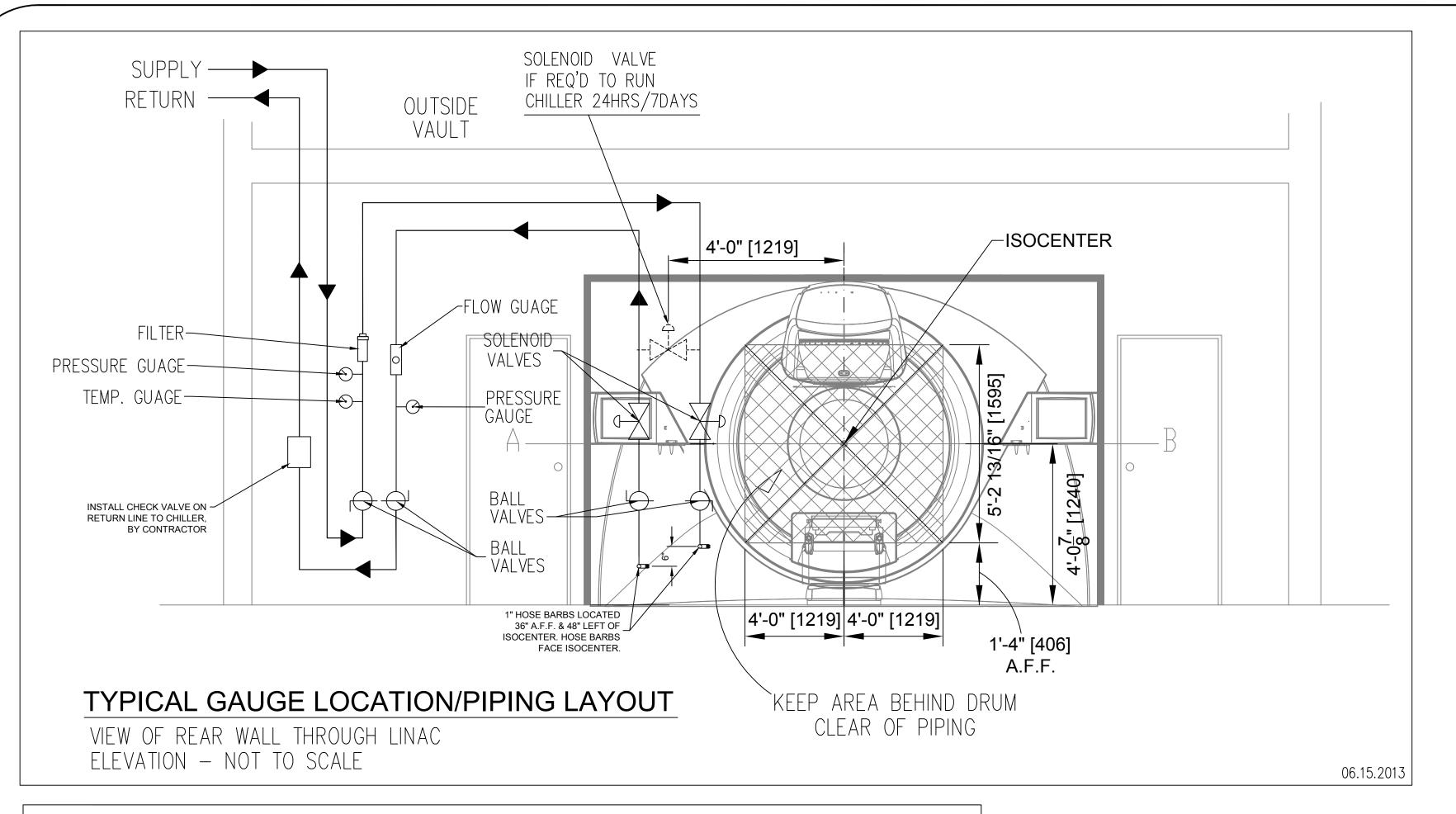
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As Shown

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Lectrical Plan

(Sheet 8 of 12)

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WATER COOLING

THE LINEAR ACCELERATOR REQUIRES CHILLED WATER DURING OPERATION AND STANDBY MODES.

DETAILED BELOW ARE THE WATER QUALITY REQUIREMENTS. SEVERAL SOURCES ARE AVAILABLE TO MEET THESE CRITERIA:

1. DOMESTIC (CITY) WATER.

2. FACILITY SUPPLIED CHILLED WATER, I.E. BY-PRODUCT OF AIR CONDITIONING

3. DEDICATED CLOSED LOOP WATER CHILLER, THIS CAN BE PURCHASED FROM ELEKTA AS AN OPTION, OR PURCHASED LOCALLY BY THE CUSTOMER.

THE FOLLOWING EQUIPMENT MUST BE INSTALLED IN ACCELERATOR EQUIPMENT

- PRESSURE GAUGES ON INPUT AND RETURN LINES.

- FLOWRATE GAUGE.

- TEMPERATURE GAUGE ON INPUT LINE.

- 120 VAC SOLENOID VALVE ON INPUT/RETURN LINE SPRING-LOADED CLOSED, OPENED BY THE LINEAR ACCELERATOR - POWER SUPPLIED BY CUSTOMER/CONTRACTOR. SEE SHEET E1A FOR ELECTRICAL DETAILS.

- WATER FILTER (100 MICRON FILTRATION MINIMUM). WATER FILTER MAY BE LOCATED OUTSIDE OF TREATMENT ROOM

WATER QUALITY REQUIREMENTS

- FLOW RATE - 8 TO 12 GPM.

- PRESSURE AT INPUT TO LINEAR ACCELERATOR - MAX. 60 P.S.I.

MAXIMUM HEAT INPUT INTO WATER IS APPROXIMATELY 40,920 BTU/HR. THIS TEMPERATURE GAIN OF WATER AT 8 GALLONS PER MINUTE FLOW IS APPROXIMATELY

- MINIMUM TEMPERATURE OF WATER AT INPUT TO LINEAR ACCELERATOR IS 60° F.

- MAXIMUM TEMPERATURE OF WATER AT INPUT TO LINEAR ACCELERATOR IS 70° F.



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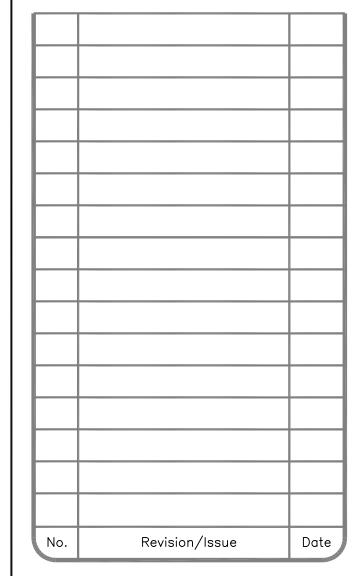
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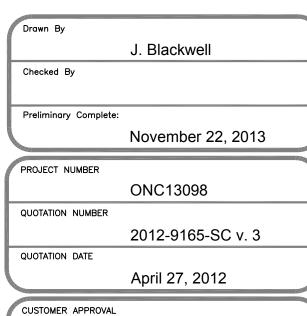
ELEKTA SITE PLANNING & DESIGN 4775 PEACHTREE INDUSTRIAL BLVD. BUILDING 300, SUITE 300 NORCROSS, GEORGIA 30092

Tel. (770) 300-9725 Fax (770) 729-1585 www.elekta.com

Project Name and Address JOHNS HOPKINS HOSPITAL 401 N. BROADWAY WEINBURG L2-1

BALTIMORE, MD 21231



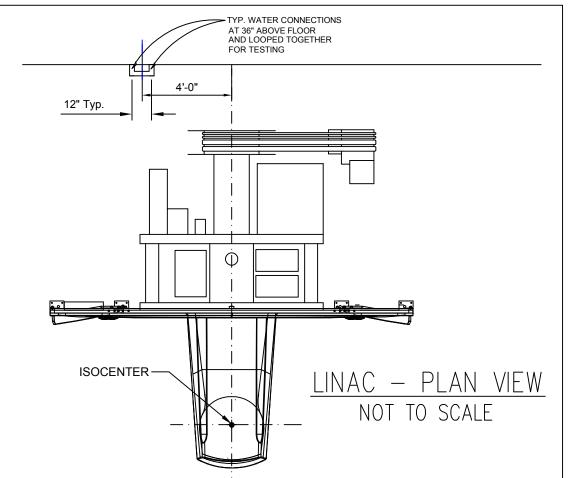


ELEKTA APPROVAL

JHH - B192 Mechanical/Laser December 9, 2013 (Sheet 9 of 12) NONE

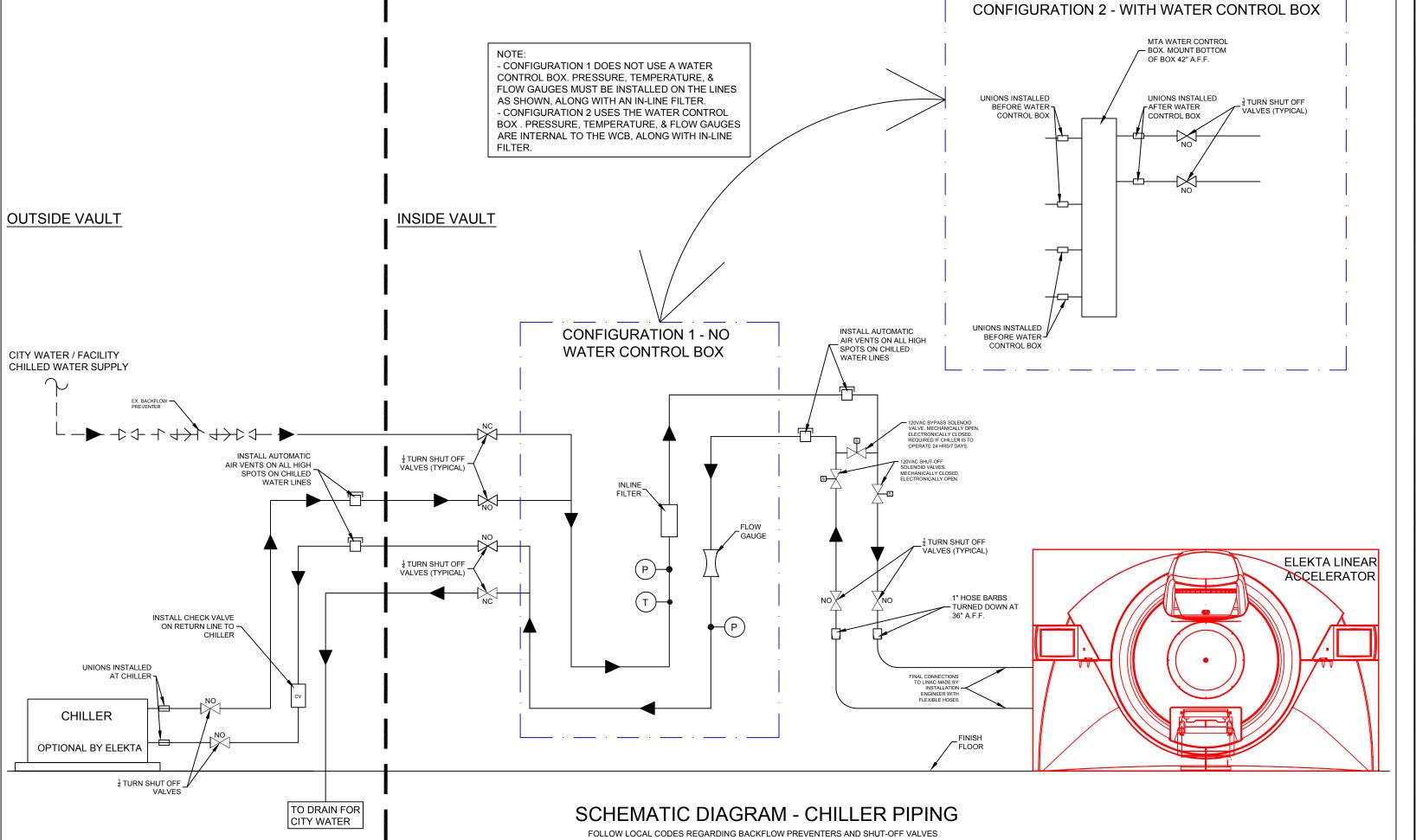
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BALL TYPE SHUT-OFF VALVE **OUTSIDE VAULT INSIDE VAULT** CITY WATER / FACILITY CHILLED WATER SUPPLY ─PRESSURE SOLENOID VALVE -MECHANICALLY CLOSED ELECTRICALLY OPEN CHILLER SOLENOID VALVE GAUGE MECHANICALLY OPEN ELECTRICALLY CLOSED — FLOW GUAGE IF REQ'D TO RUN MANUAL BALL TYPE OPTIONAL BY ELEKTA INSTALL CHECK VALVE ON -RETURN LINE TO CHILLER, 120 VAC SHUT-OFF ——— SOLENOID VALVE BY CONTRACTOR MECHANICALLY CLOSED ELECTRICALLY OPEN TO DRAIN (IF CITY WATER ONLY) / FACILITY CHILLED WATER SUPPLY SCHEMATIC DIAGRAM - CHILLER PIPING ACCELERATOR FOLLOW LOCAL CODES REGARDING BACKFLOW PREVENTERS AND SHUT-OFF VALVES

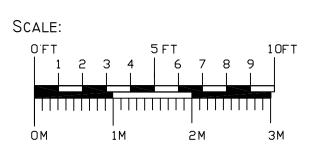


NOTE: CHILLERS REQUIRE THE CUSTOMER TO PROVIDE A LICENSED CONTRACTOR TO PERFORM INSTALLATION AND "START-UP" FUNCTIONS.

MTA-USA CONTACT INFORMATION NAME: John Medeiros PHONE: 716-693-8651



Support Plan Johns Hopkins Hospital Baltimore, MD - 12.09.2013 Minimum Finish Ceiling Height: 8'-6 $\frac{3}{8}$ "



SUPPORT NOTES:

- B. 3 Gantry plates, 6" x 6" [150mm x 150mm], secured to the floor by 13/16" x 5 7/8" [m20 x 150mm] anchors. Approximate loading per plate is 4400lbs [2000kg]. (See Detail 2)
- C. 1 Cable Support plate, 30 5/16" x 22 11/16" [770mm x 576mm]
- Plates A, B, and C are mounted to finish floor. (See Detail 2)
- 3. Area around all plates (A, B & C) and in Pit Floor, to be concrete with a minimum thickness of 8 11/16" [220mm] and a compressive strength of at least 4500lb/sq in. Provide for a continuous pour of concrete (NOT
- 4. Plates A, B, and C and anchors are supplied and installed by Elekta.
- 5. All laser mounting plates, anchors, and mounting structures are supplied & installed by contractor.
- 6. If "B" plate anchors and/or table anchors will be located in any existing concrete, contractor to drill a core sample in the floor next to where the gantry will be positioned. Have the core sample analyzed describing density, compactness, and strength of concrete. Provide a
- 7. Any new concrete to have test cylinders poured, broken, and analyzed. Copy of test results must be supplied to Elekta confirming compressive strength at or above 4500 psi minimum specifications

EQUIPMENT SUPPORT INFORMATION

THE CUSTOMER SHALL BE SOLELY RESPONSIBLE, AT ITS EXPENSE FOR PREPARATION OF THE SITE, INCLUDING ANY REQUIRED STRUCTURAL ALTERATIONS. THE SITE PREPARATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND SPECIFICATIONS, THE ARCHITECTURAL/CONSTRUCTION DRAWINGS, AND IN COMPLIANCE WITH ALL SAFETY AND BUILDING CODES. THE CUSTOMER SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS FROM JURISDICTIONAL AUTHORITY.

2. EQUIPMENT ANCHORAGE

ELEKTA PROVIDES WITH THIS PLAN AND SPECIFICATIONS, INFORMATION RELATIVE TO EQUIPMENT SIZE, WEIGHT, SHAPE, ANCHORING HOLE LOCATIONS. AND FORCES (SEISMIC ZONE 4) WHICH MAY BE EXERTED ON ANCHORING FASTENERS. THE CUSTOMER SHALL BE SOLELY RESPONSIBLE, THROUGH THE ENGINEER OF RECORD FOR THE BUILDING, TO PROVIDE, ON THE ARCHITECTURAL/CONSTRUCTION DRAWINGS, INFORMATION REGARDING THE APPROVED METHOD OF EQUIPMENT ANCHORING TO FLOORS, WALL, AND/OR CEILING OF THE BUILDING. ANY ANCHORAGE TEST REQUIRED BY LOCAL AUTHORITY SHALL BE THE CUSTOMER'S RESPONSIBILITY. STUD TYPE ANCHOR BOLTS SHOULD NOT BE SPECIFIED AS THEY HINDER EQUIPMENT REMOVAL FOR SERVICE. CONSULT WITH ELEKTA SITE COORDINATOR PRIOR TO SPECIFYING ANCHOR METHODS.

3. FLOOR LOADING AND SURFACE

ELEKTA PROVIDES, WITH THIS PLAN AND SPECIFICATIONS, INFORMATION RELATIVE TO SIZE, WEIGHT, AND SHAPE OF FLOOR MOUNTED EQUIPMENT. THE CUSTOMER SHALL BE SOLELY RESPONSIBLE, THROUGH THE ENGINEER OF RECORD FOR THE BUILDING, TO PROVIDE, ON THE ARCHITECTURAL/CONSTRUCTION DRAWINGS, CONFIRMATION OF THE STRUCTURAL ADEQUACY OF THE FLOOR UPON WHICH THE EQUIPMENT WILL BE PLACED. ANY LOAD TEST REQUIRED BY LOCAL AUTHORITY, SHALL BE THE CUSTOMER'S RESPONSIBILITY. THE FLOOR SURFACE UPON WHICH ELEKTA

EQUIPMENT IS TO BE PLACED/ANCHORED, SHALL BE FLAT AND LEVEL TO

4. LIGHTING

WITHIN ± 1/16 INCH [2mm].

LIGHTING FIXTURES SHALL BE PLACED IN SUCH A POSITION THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR ITS MOVEMENT. SUCH LIGHTING FIXTURE LOCATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CUSTOMER.

A. 4 Fascia plates, 6" x 6" [150mm x 150mm], secured to the floor with 3/8" x 3 1/8" [m10 x 80mm] anchors. (See Detail 2)

- secured to the floor with 1/2" x 3 15/16" [m12 x 100mm] anchors. (See Detail 2)
- 2. Finished surface dimensions (Length x Width) of pit concrete work shall be within a tolerance of \pm 5mm ($\frac{3}{16}$ "). (See Detail 1)
- LAYERED). (See Detail 1)

- copy of the analysis to Elekta.
- before the Linac can be delivered.
- Fascia wall doors must not have automatic closers.

(1/16") AS MEASURED OVER 1000mm (3'-3 (AREA UNDER HIGH LOAD CONDITION) OF CONCRETE. NO CONCRETE IN SHADED AREAS TO HAVE A MINIMUM THICKNESS OF: 700mm ! 700mm 8 16" [220мм] FINE TROWELED SMOOTH TO WITHIN ± 2mm (1/16") AS (3'-3 3/8").

SUPPORT LEGEND

DETAIL NO. -

B - FURNISHED BY CUSTOMER/CONTRACTOR AND INSTALLED BY CUSTOMER/CONTRACTOR

D - FURNISHED BY ELEKTA AND INSTALLED BY CUSTOMER/CONTRACTOR

DESCRIPTION

3 | 3 | "I" BEAM (7000LBS S.W.L) AND MANUAL CHAIN FALL (2000 LBS

S.W.L.) WITH TROLLEY. REFER TO SUPPORT NOTES, SHEET S3

A - FURNISHED AND INSTALLED BY ELEKTA

E - EXISTING

A | A | 6" X 6" FASCIA PLATE

A | B | 6" X 6" GANTRY PLATE

B | 1 | FLOOR PIT (See Sheet S2)

THIS AREA TO BE LEVEL AND FINE TROWELED SMOOTH TO WITHIN ± 2mm

PROVIDE GROMMETED HOLE FOR LASER BEAM

ITEM NO.

F - FUTURE

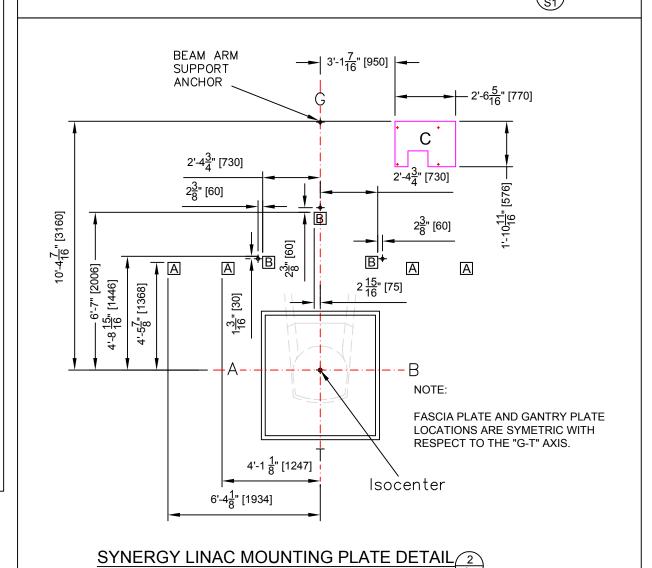
G - OPTIONAL

C - INSTALLED BY CUSTOMER/CONTRACTOR

A C 30 5/16" X 22 11/16" CABLE SUPPORT PLATE

B 2 CONTRACTOR'S FASCIA (See Sheet S3)

SYNERGY LINAC CONCRETE SPECIFICATION DETAIL 1



PATIENT POSITIONING LASER REQUIREMENTS

LASERS ARE USED TO ALIGN PATIENTS FOR TREATMENT. WHEN THE LASERS ARE ORDERED THROUGH ELEKTA, A 4 LASER SYSTEM WILL BE

<u>MOUNTING</u>

IT IS IMPERATIVE THAT THE LASERS BE MOUNTED ON RIGID STRUCTURES SUCH AS CONCRETE WALLS OR STEEL COLUMNS. LASERS MUST NOT BE MOUNTED ON SHEETROCK, DRY WALL, OR FALSE CEILING.

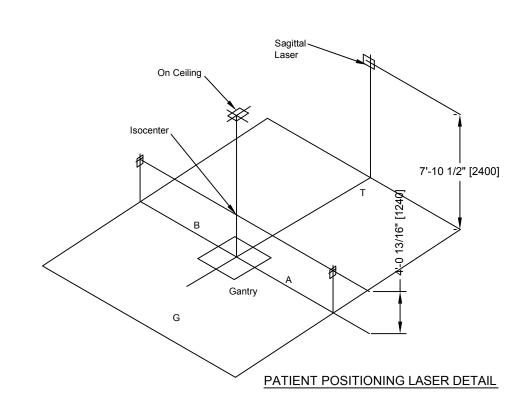
IT IS ALSO ADVISABLE TO RECESS THE LASERS TO PREVENT MISALIGNMENT FROM "KNOCKS OR BUMPS" FROM PERSONNEL TRAFFIC, ETC. THERE ARE SEVERAL WAYS TO ACHIEVE A RECESS:

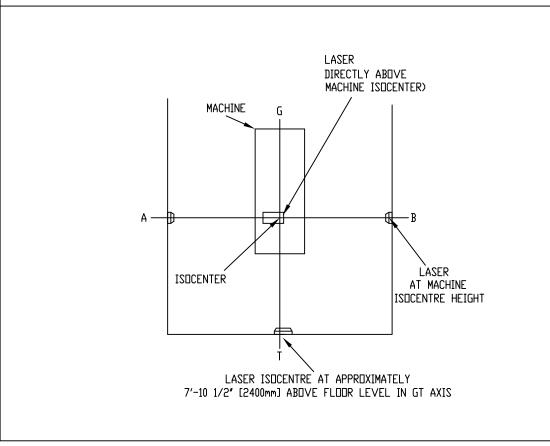
1 - PROVIDE A 5 1/2" FURRED WALL FROM CONCRETE STRUCTURE ACCOMMODATE THE LASER.

2 - PROVIDE A 5 1/2" DEPRESSION IN THE CONCRETE WALL TO ACCOMMODATE THE LASER, IF THIS METHOD IS USED, THE RADIATION PHYSICIST OF RECORD MUST BE CONSULTED TO ENSURE THAT THE SHIELDING INTEGRITY IS NOT DIMINISHED.

THE RECESS CAN BE FINISHED USING A HINGED DOOR WITH A GROMMETTED HOLE FOR THE LASER BEAM, SO AS TO RETAIN ROOM

THE CEILING LASER MAY BE MOUNTED DIRECTLY TO THE STRUCTURE AND A GROMMETTED HOLE BE PROVIDED IN THE CEILING TILE OR,
ALTERNATIVELY A BRACKET COULD BE CONSTRUCTED SO THAT THE LASER
IS MOUNTED AT THE LEVEL OF THE CEILING TILE BUT THE LOADS ARE TRANSFERRED TO THE STRUCTURE.







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SITE PLANNING & DESIGN 4775 PEACHTREE INDUSTRIAL BLVD. BUILDING 300, SUITE 300 NORCROSS, GEORGIA 30092

Tel. (770) 300-9725 Fax (770) 729-1585

www.elekta.com Project Name and Address

JOHNS HOPKINS HOSPITAL 401 N. BROADWAY WEINBURG L2-1 BALTIMORE, MD 21231

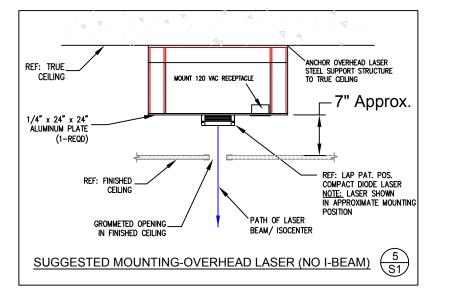


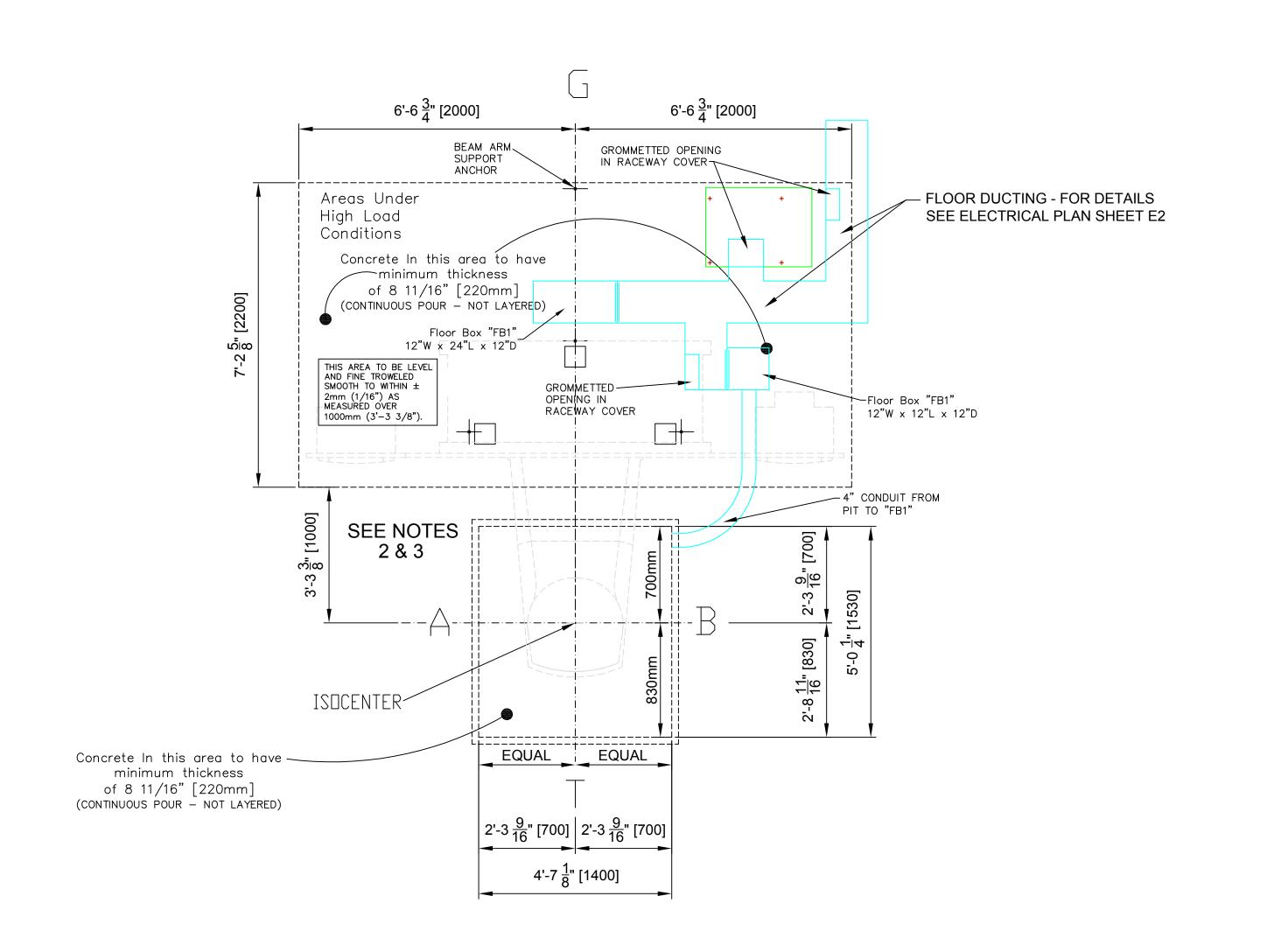
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| Preliminary Complete: | |
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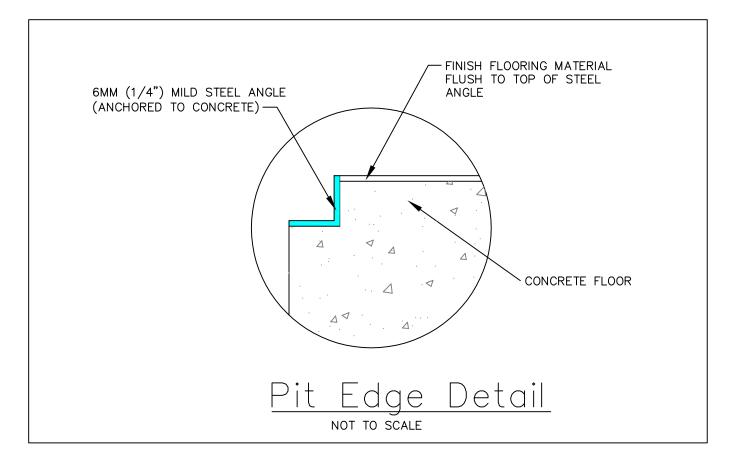
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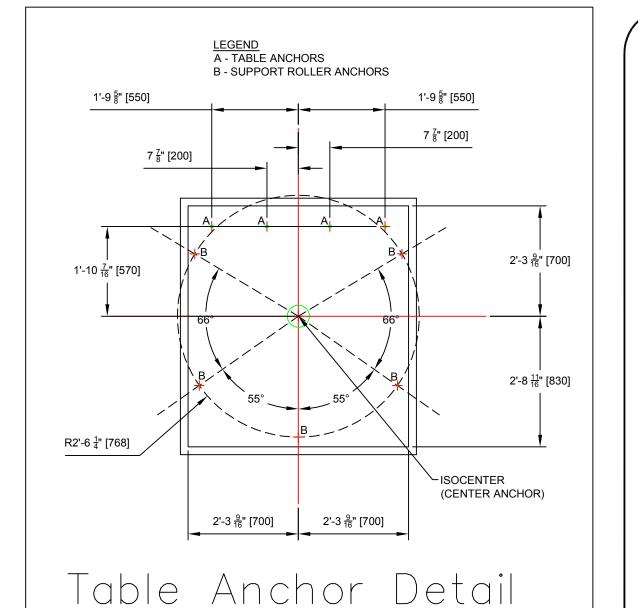
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| December 9, 2013 | Support Plan |
| Scale 1/4" = 1'-0" | (Sheet 10 of 12) |

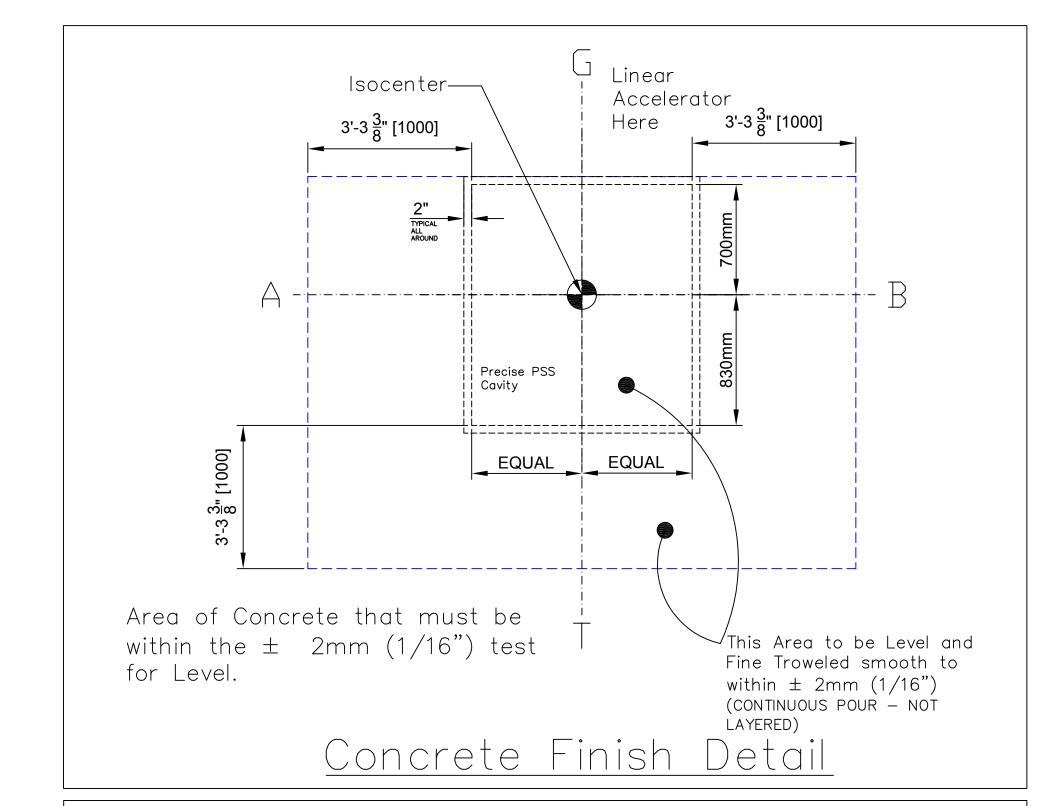
CONTRACTOR SUPPLIED
I-BEAM. SEE ITEM #3 IN
SUPPORT LEGEND. LAP PAT. POS. COMPACT DIODE LASER MOUNTED TO ALUMINUM PLATE – SEE 'ELEKTA' DRAWINGS SUGGESTED MOUNTING-OVERHEAD LASER (WITH I-BEAM) (4)











 CONCRETE TOLERANCE ±2mm (1/16") —
 (Dimensions Marked With *) * 9 ¹/₄" [235] * 9 4" [235] $4\frac{7}{16}$ " [113] 2" [50] 700mm 4" CONDUIT 700mm 700mm

MINIMUM THICKNESS

A 8 11/16" [220]

A $2'-3\frac{9}{16}"$ [700] 2" [50] 5'-0<mark>1</mark>" [1530] 4'-7 8" [1400]

SECTION THROUGH A - B

SECTION THROUGH T - G

FLOOR CAVITY FOR DIGITAL ACCELERATOR WITH PRECISE P.S.S.

IF DESIRED, A PIT FRAME MAY BE USED INSTEAD OF TRADITIONAL FRAMING FOR THE FLOOR CAVITY FOR ELEKTA'S DIGITAL ACCELERATOR. FINN INDUSTRIES OFFERS THE E-FRAME OPTION DIRECTLY TO THE CUSTOMER/CONTRACTOR. PLEASE CONTACT FINN INDUSTRIES FOR PRICING AND AVAILABILITY AT:

CONTACT NAME: KAI MOSEID PHONE: 630.460.5012 E-MAIL: FINNIND@COMCAST.NET SUPPORT NOTES

- 1. FINISHED SURFACE DIMENSIONS (Length X Width) OF PIT CONCRETE WORK SHALL BE WITHIN A TOLERANCE OF \pm 5mm (3/16")
- 2. MINIMUM THICKNESS OF CONCRETE IN PIT FLOOR AND UNDER LINEAR ACCELERATOR SHALL BE A MINIMUM OF 220mm (8 11/16") THICK REINFORCED CONCRETE, CREATED WITH A CONTINUOUS POUR — NOT LAYERED
- 3. CONCRETE FLOOR IN PIT AND UNDER LINEAR ACCELERATOR SHALL BE LEVEL AND FINE TROWELED SMOOTH TO WITHIN \pm 2mm (1/16")
- 4. PIT EDGING SHALL BE MILD STEEL ANGLE, 2" X 2" X 1/4" WEB THICKNESS.
- 5. PIT COVERS ARE PROVIDED BY ELEKTA. CUSTOMER/CONTRACTOR SHALL TRIM COVERS TO FIT PIT EDGING.
- 6. CUSTOMER/CONTRACTOR SHALL SUPPLY AND FIT FLOORING MATERIAL TO THE PIT COVERS.



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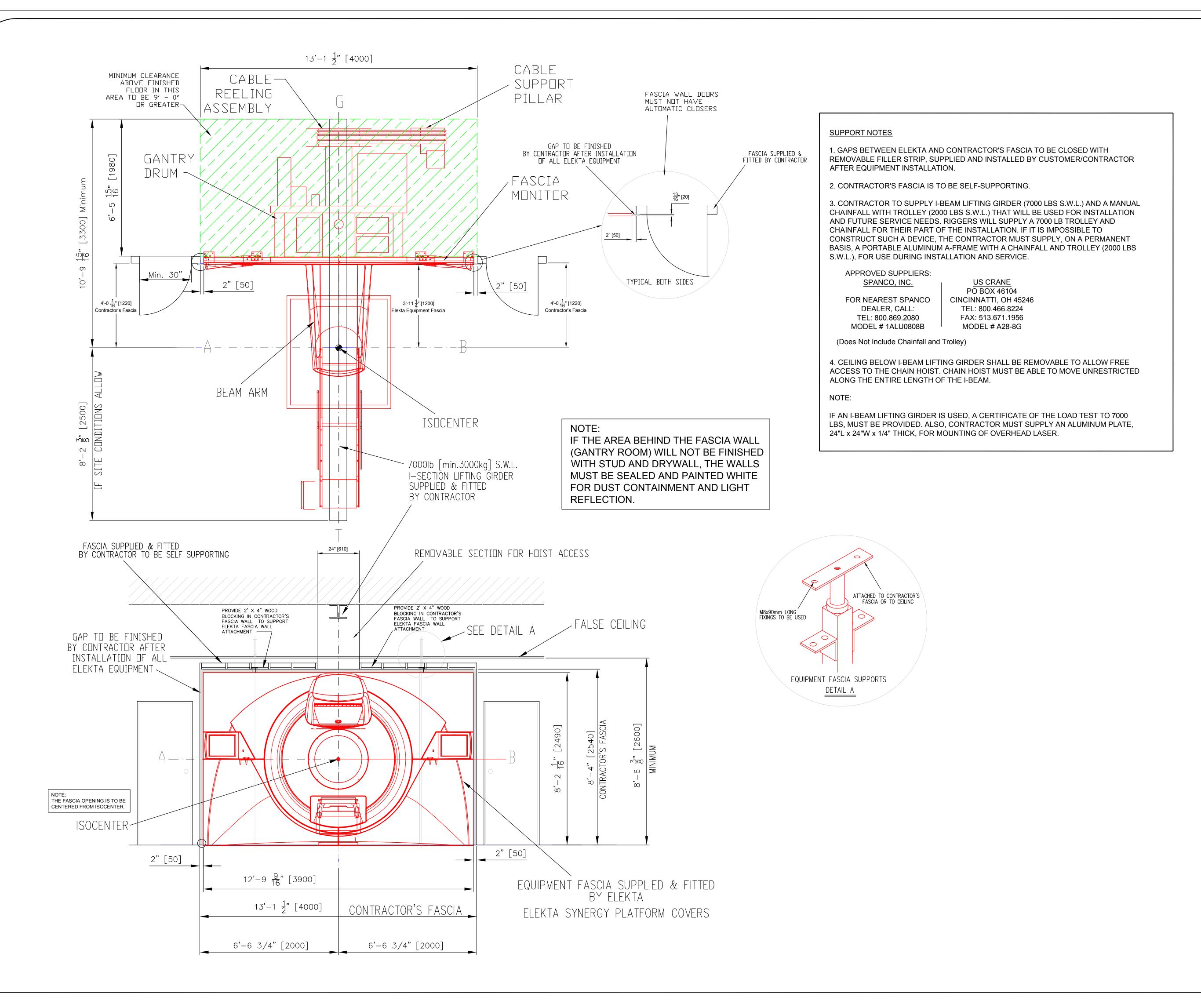
Project Name and Address JOHNS HOPKINS HOSPITAL 401 N. BROADWAY WEINBURG L2-1 BALTIMORE, MD 21231



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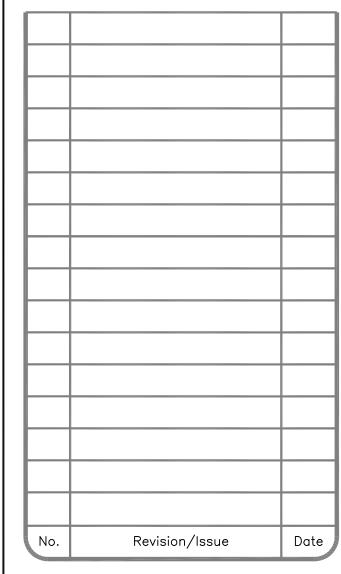
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401 N. BROADWAY
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BALTIMORE, MD 21231



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