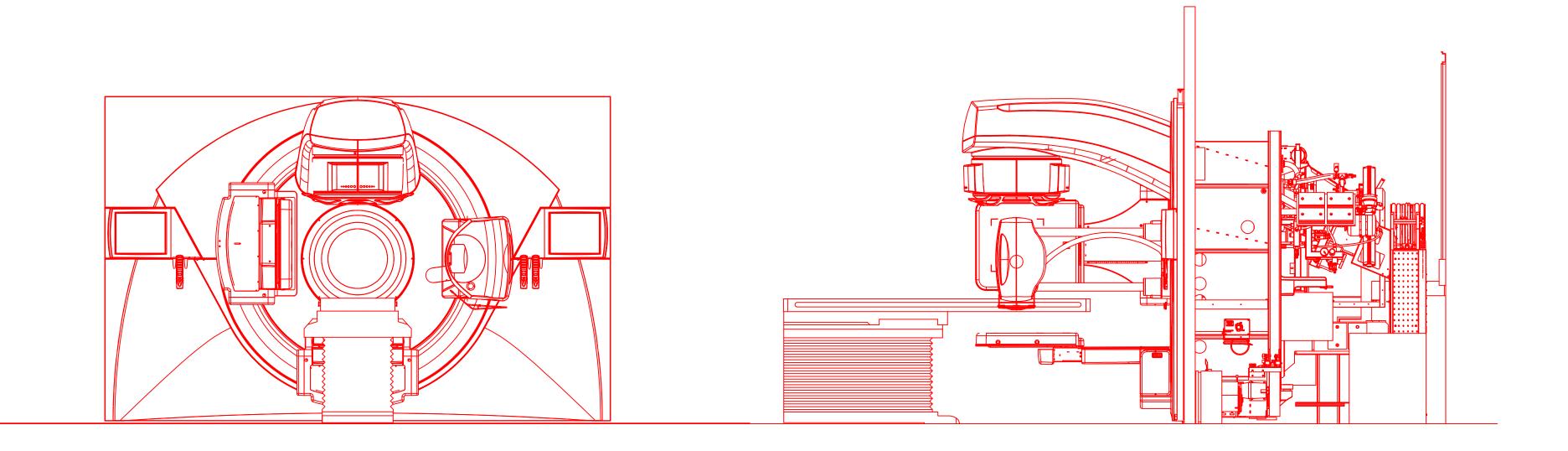
ELEKTA, INC INFINITY DELIVERY SYSTEM



Prepared For:

CUSTOMER NAME CITY, STATE



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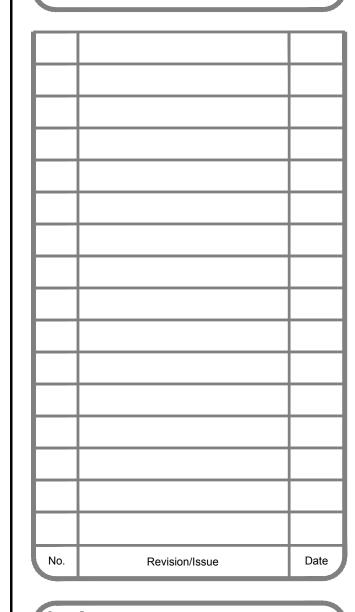
ELEKTA, INC.
SITE PLANNING & DESIGN
400 PERIMETER CENTER TERRACE
SUITE 50
ATLANTA, GEORGIA 30346
Tel. (770) 300-9725
Fax (770) 729-1585

Project Name and Address

www.elekta.com

INFINITY DELIVERY SYSTEM

REFERENCE DRAWING



Drawn By	
Checked By	
Preliminary Complete:	
PROJECT NUMBER	
PROJECT NUMBER QUOTATION NUMBER	

CUSTOMER APPROVAL	
ELEKTA APPROVAL	
DATE	7

:	Sheet
NITY Ref Dwg	C1
Complete:	
uary 9, 2017	Cover Sheet
NE	(Sheet 1 of 20)

E1a (6) Client Interface Terminal Box Schem. Client Interface Terminal Box Detail Electrical Plan / Conduit Schedule E2a (9) | Electrical Plan / Conduit Schedule Mechanical / Chilled Water Req. Floor Support Plan S2 (12) Floor Pit Details Fascia Wall Details /Laser Details S5 (15) Goal Posts S6 (16) C Plate / Reeling Post INFI S7 (17) Gantry Shims / Clamps S8 (18) Table / EIM Anchors Janua Scale Seismic Calculations NON S10 (20) Seismic Calculations AD1 (1) Example Beam Applicator Storage Hexapod Requirements

Cover Sheet

Equipment Plan

Equipment Details

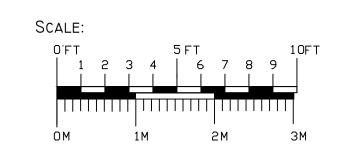
Equipment Details

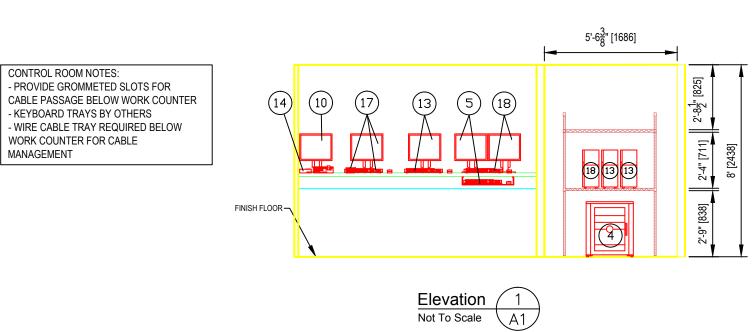
E1 (5) Elec. Power Block Diagram

FNAMF

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Equipment Layout Infinity Reference Drawings City, State - 01.09.2017 Minimum Finish Ceiling Height: 8'-7"





CPU CLOSET REQUIREMENTS - SHELVES MUST BE ABLE TO SUPPORT A TOTAL LOAI OF 200 lbs & BE VENTED FOR AIR FLOW - MUST CONTAIN CABLE MANAGEMENT SYSTEM AT REAR OF CLOSET - MUST CONTAIN ADEQUATE LIGHTING FOR INSTALLATION AND SERVICE PROVIDE A MINIMUM 600 C.F.M. OF AIR FLOW FOR CPU COOLING. -INPUT VENTS SHOULD BE LOCATED AT FLOOR LEVEL -COOLED AIR MUST CONTAIN A FILTER WITH A 90% -- PROVIDE 12" SPACE BETWEEN SHELVES AND REAR OF CPU CLOSET TO ALLOW FOR CABLE MANAGEMENT SUPPLY PLYWOOD BACKING IN CPU CLOSET FROM FINISH FLOOR TO A HEIGHT OF 5'-0" (ALL SIDES) MINIMUM 7'-0"H DOOR REQUIRED

GENERAL SPECIFICATIONS

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 DBTAINING 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.

IN THE EVENT LOCAL LABOR CONDITIONS MAKE IT IMPOSSIBLE CONTRACTOR CHOSEN BY THE CUSTOMER AT THE CUSTOMER'S EXPENSE, AND IN SUCH CASE, ELEKTA AGREES TO FURNISH THE INSTALLATION

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

7- CONFLICT

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

8- TREATMENT ROOM SINK

IT IS SUGGESTED THAT A SINK BE LOCATED IN THE TREATMENT ROOM VAULT FOR HAND WASHING.

1- RESPONSIBILITY

2- PERMITS

AND STATUTES.

5- LAB□R

OR UNDESIRABLE 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 ADEQUATE ENGINEERING SUPERVISION FOR PROPER COMPLETING OF

THE CONTRACTOR AND DELIVERY OF THE PRIMARY EQUIPMENT.

THE CONTRACT SHALL GOVERN.

A FURNISHED AND INSTALLED BY ELEKTA B FURNISHED BY CUSTOMER/CONTRACTOR AND INSTALLED BY INSTALLED BY CUSTOMER/CONTRACTOR D FURNISHED BY ELEKTA AND INSTALLED BY CONTRACTOR EEXISTING SUPPLIED BY CUSTOMER G OPTIONAL — () ITEM NO. DETAIL SHEET-WEIGHT HEAT DESCRIPTION (LBS.) (BTU/HR.) (1) INFINITY DELIVERY SYSTEM 18320 13640 2502 3412 - PEAK 341 - AVG. (2) PRECISE PATIENT SUPPORT SYSTEM (3) REELING INTERFACE CABINET (RIC) 1024 (4) INTEGRITY R3.0 TCC CABINET 180 2934 A (5) INTEGRITY CONTROL SYSTEM 23 307 6 ELECTRICAL INTERFACE MODULE (EIM)
(LOCATED ON FLOOR BELOW FASCIA MONITOR) 117 409 (7) PCDU (POWER COND. DISTRIBUTION UNIT) 610 2100 8 ROOM LASER (x4) 5.5 85 A 9 CCTV CAMERA A (10) CCTV MONITOR 123 15 (11) N2 DRY NITROGEN CYLINDER 119 (w/ low press, regulator - Commercial Grade 99.9% Pure) SF6 GAS CYLINDER (Commercial Grade 99.9% Pure) A (13) IVIEW GT / XVI IMAGE PROCESSING SYSTEM 556 64 A (14) INTERCOM SYSTEM D |(15)| CLIENT INTERFACE TERMINAL BOX 15 64

EQUIPMENT LEGEND

|(16)| X-RAY GENERATOR (XVI) 209 546 (17) MOSAIQ WORKSTATION 64 600 |(18)| OPTIONAL SCHEDULING WORKSTATION 64 500 15 MOSAIQ INROOM TERMINAL 256 20 MONACO WORKSTATION 500 64

TEMPERATURE

RANGE

RATE OF CHANGE

OF TEMPERATURE

RATE OF CHANGE

OF HUMIDITY

HUMIDITY

30 - 60%

HE 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.

ELECTRICAL REQUIREMENTS

SYNERGY PLATFORM ACCELERATOR WITH PCDU

AND GROUND, DELTA OR WYE

BRANCH POWER REQUIREMENT:

SUPPLY CONFIGURATION:

NOMINAL LINE VOLTAGE:

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

30 - 60%

30 - 60%

SPECIFICATIONS OF THE REQUIRED AIR CONDITIONIONG

3 PHASE, 3 WIRE POWER, NEUTRAL, 208 DR 480 VAC, 60 HZ. +/- 5% VOLTAGE ADJUSTMENT TAPS

45 KVA (EACH BRANCH)

SYSTEM - MAINTAIN CONDITIONS 24 HRS/DAY, 7 DAYS/WEEK 08.2014 **EQUIPMENT TREATMENT** CONTROL CPU CLOSET ROOM ROOM ROOM 66° - 72° F 68° - 78° F 68° - 78° F 59° - 70° F SEE (1) BELOW SEE (1) BELOW SEE (1) BELOW 3° F / HR 3° F / HR 3° F / HR 3° F / HR 20% / HR 20% / HR 20% / HR 20% / HR

l<mark>andatory.</mark> 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 PREVENTION | 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.

30 - 60%

HEAT OUTPUT OF EQUIPMENT	17061 BTU/HR [5kW MAXIMUM] (*)	1706 BTU/HR [0.5kW MAXIMUM]	2703 BTU/HR [2kW MAXIMUM]	4500 BTU/HR [1.5kW MAXIMUM]
RECIRCULATION OF FRESH AIR	REFER TO PHYSICIST OF RECORD	REFER TO PHYSICIST OF RECORD	REFER TO PHYSICIST OF RECORD	N/A
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	N/A

(1) A temperature of 72°F to 76°F, is advisable for operator/patient comfort. Temperature regulation to be operational at Elekta Final Site Inspecti (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 regulations.

(*) 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.



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ELEKTA, INC. SITE PLANNING & DESIGN 400 PERIMETER CENTER TERRACE

SUITE 50 ATLANTA, GEORGIA 30346 Tel. (770) 300-9725 Fax (770) 729-1585 www.elekta.com

Project Name and Address

INFINITY DELIVERY SYSTEM

REFERENCE DRAWING

Revision/Issue

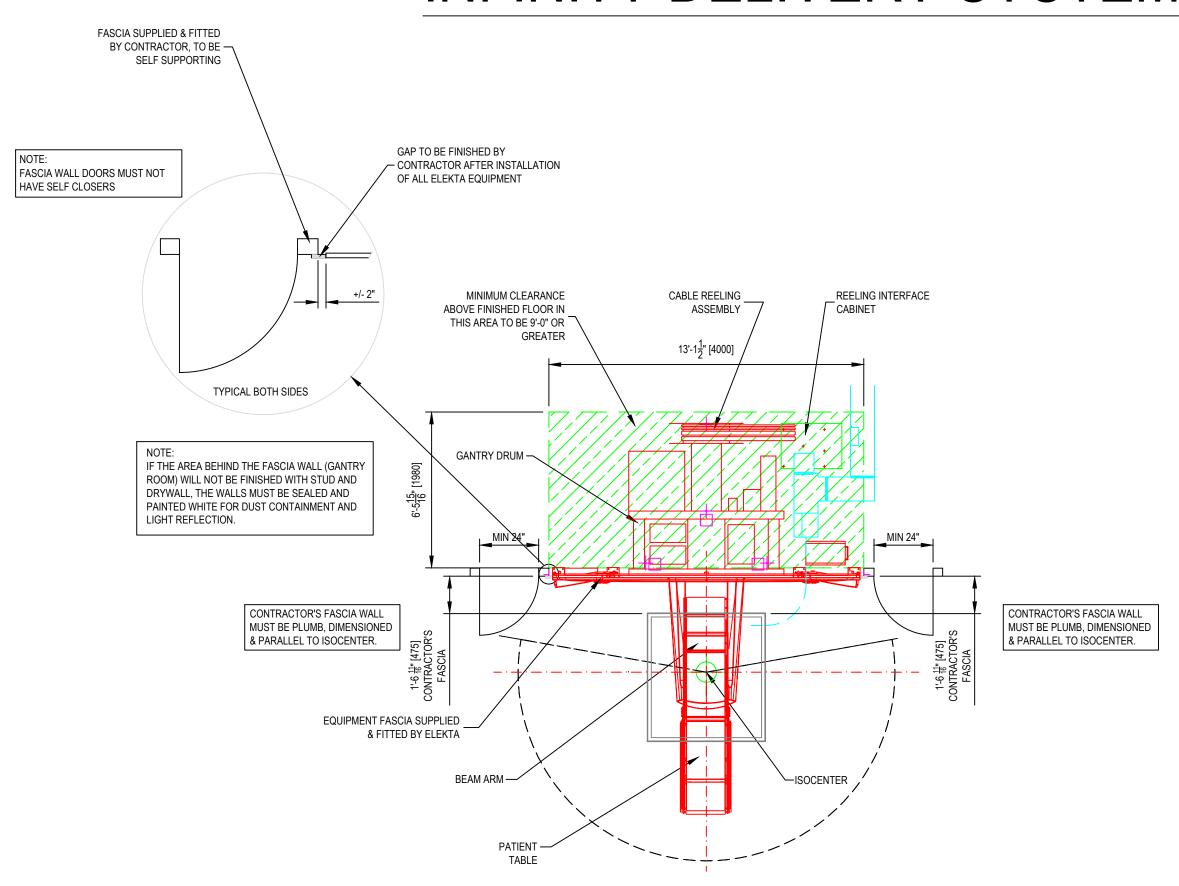
Drawn By Checked By Preliminary Complete PROJECT NUMBER QUOTATION NUMBER

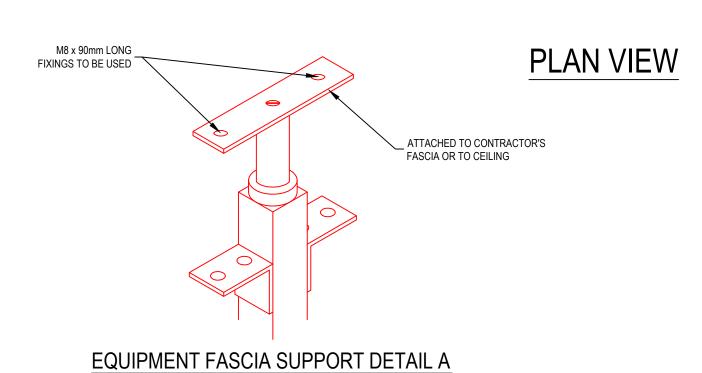
CUSTOMER APPROVAL ELEKTA APPROVAL

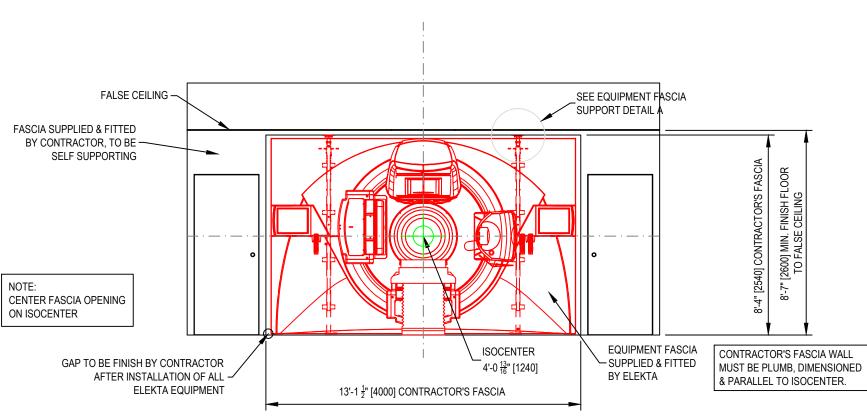
QUOTATION DATE

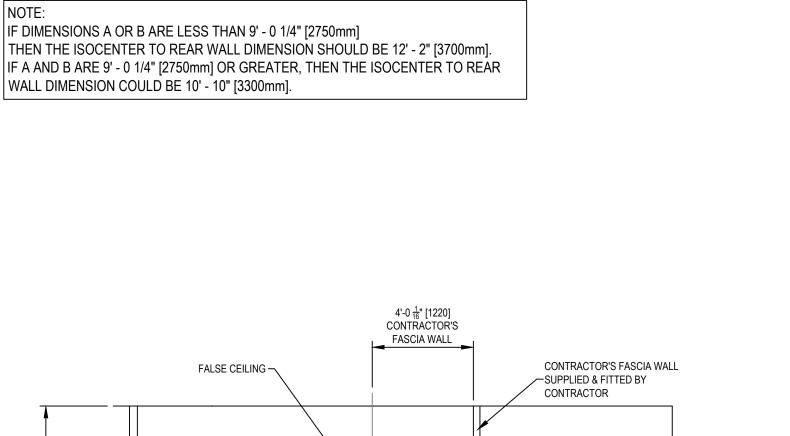
INFINITY Ref Dwg **A1** Finals Complete: January 9, 2017 **Equipment Plan** (Sheet 2 of 20) 1/4" = 1'-0"

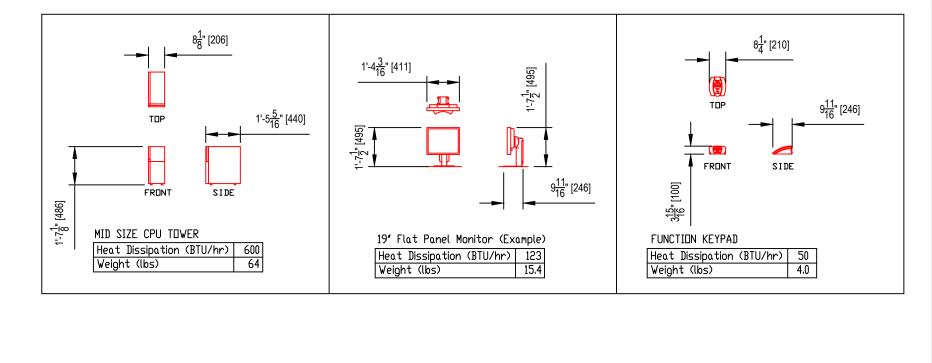
INFINITY DELIVERY SYSTEM

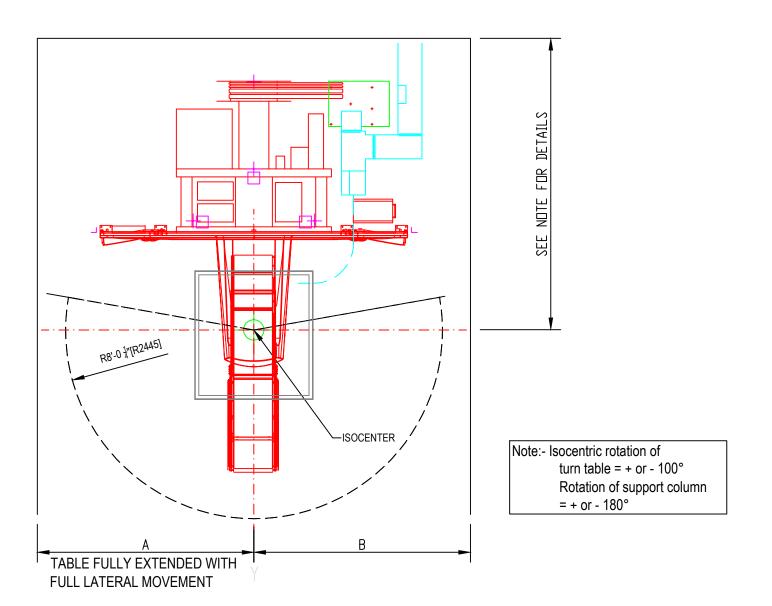






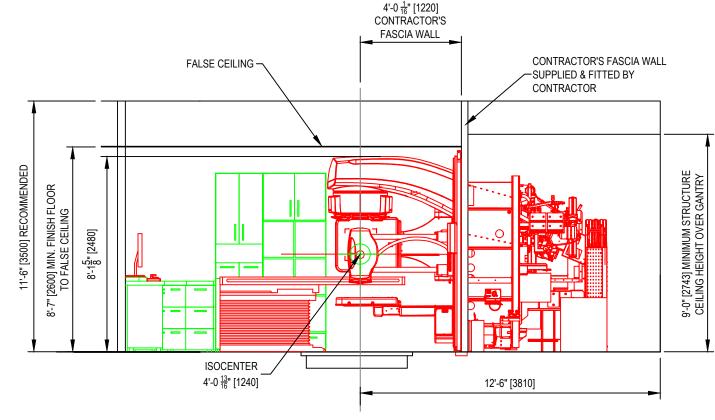


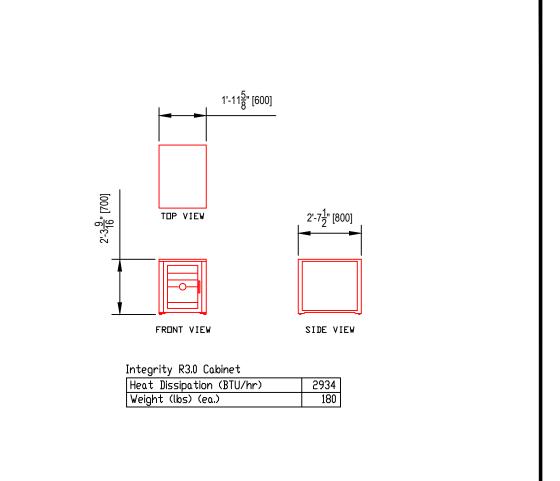


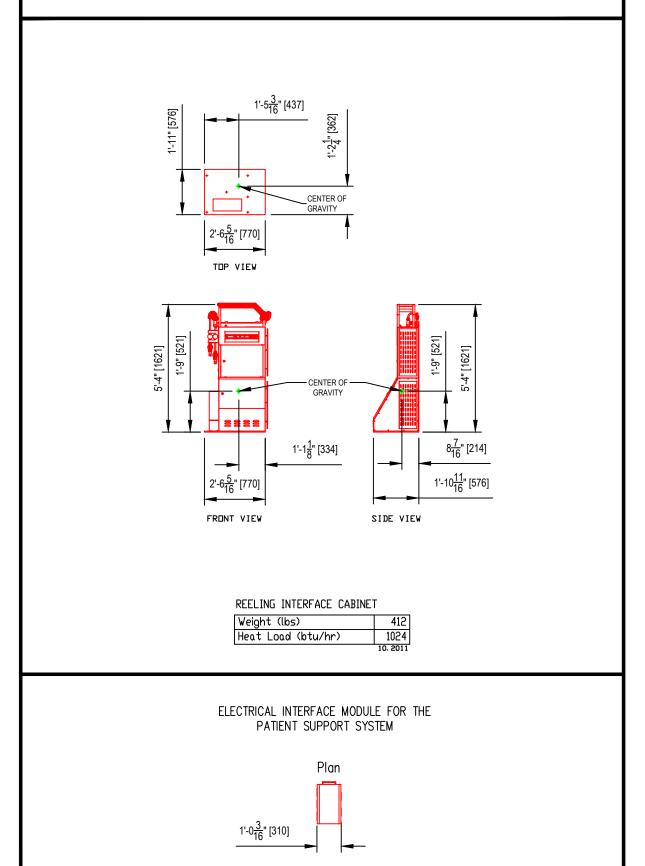


SPACE DIAGRAM

IF DIMENSIONS A OR B ARE LESS THAN 9' - 0 1/4" [2750mm] THEN THE ISOCENTER TO REAR WALL DIMENSION SHOULD BE 12' - 2" [3700mm]. IF A AND B ARE 9' - 0 1/4" [2750mm] OR GREATER, THEN THE ISOCENTER TO REAR







Electrical Interface Module (EIM)

Heat Dissipation (BTU/hr) 409 Weight (lbs) 117



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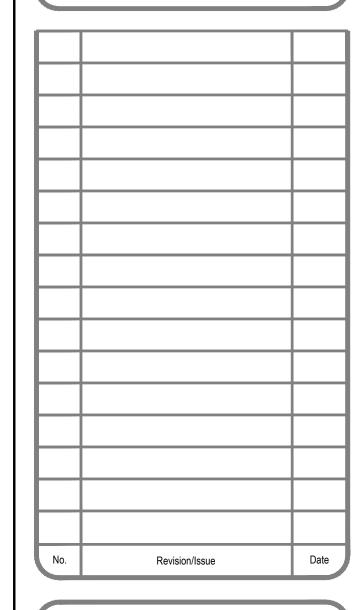
ELEKTA, INC. SITE PLANNING & DESIGN 400 PERIMETER CENTER TERRACE SUITE 50

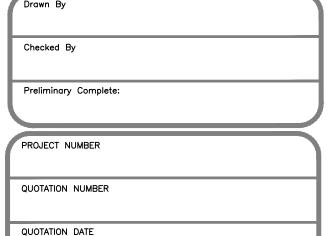
ATLANTA, GEORGIA 30346 Tel. (770) 300-9725 Fax (770) 729-1585 www.elekta.com

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INFINITY DELIVERY SYSTEM

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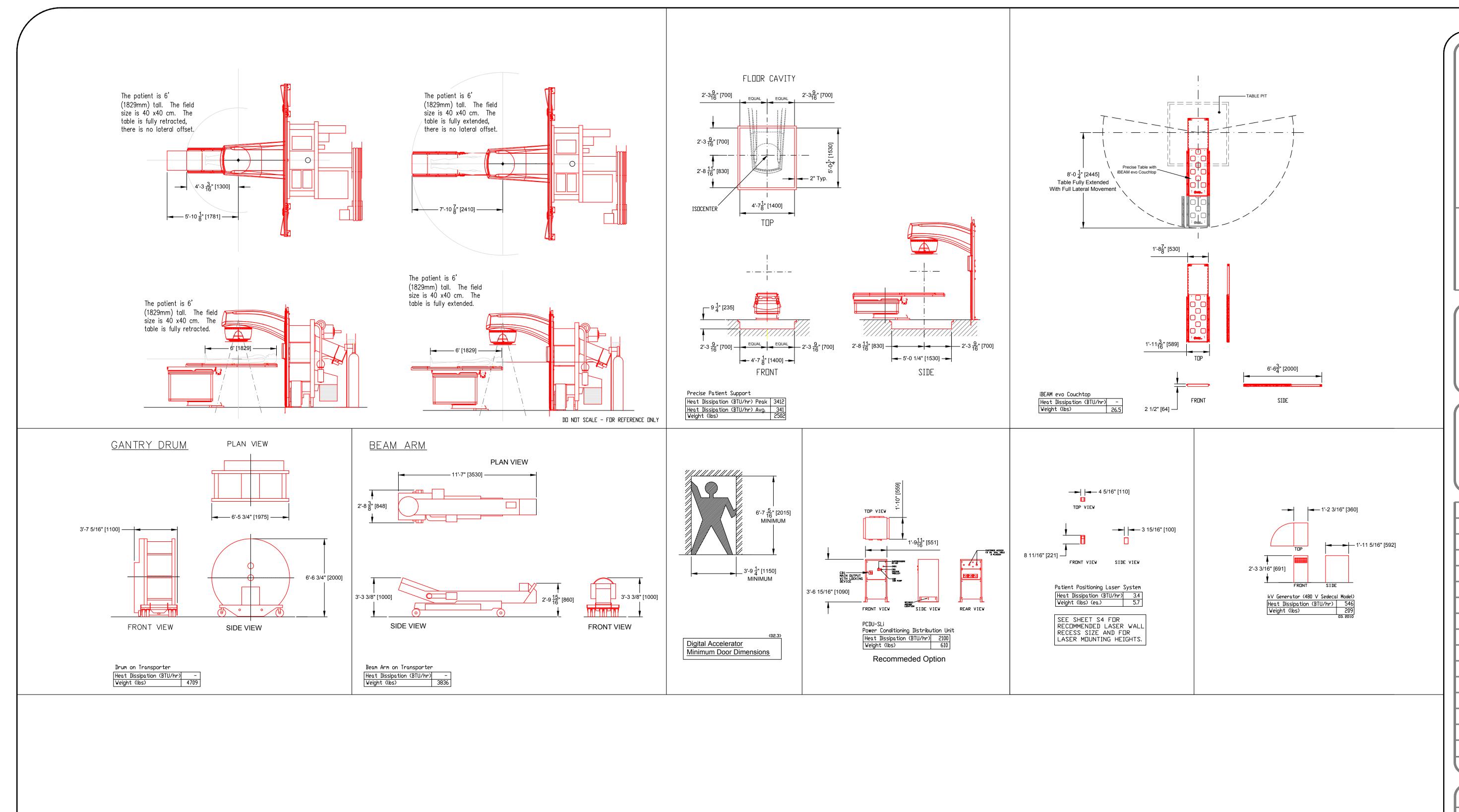


CUSTOMER APPROVAL

INFINITY Ref Dwg **A2** Finals Complete: January 9, 2017 **Equipment Details** (Sheet 3 of 20) 1/4" = 1'-0"

PROJECT: ONC16067

FRONT VIEW





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ELEKTA, INC. SITE PLANNING & DESIGN 400 PERIMETER CENTER TERRACE SUITE 50

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Project Name and Address

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No.	Revision/Issue	Date

Drawn By	
Checked By	
Preliminary Complete:	

PROJECT NUMBER QUOTATION NUMBER QUOTATION DATE

CUSTOMER APPROVAL

Project	Sheet	
INFINITY Ref Dwg		
Finals Complete:	A3	
January 9, 2017	Equipment Details	
Scale 1/4" = 1'-0"	(Sheet 4 of 20)	

STANDARD TRANSFORMER CAPACITY: PRIMARY CIRCUIT BREAKER:

3 POLE, 100 AMPS (208VAC) SECONDARY CIRCUIT BREAKER: 3 POLE, 70 AMPS (415VAC - PART OF PCDU) 16KVA (STAND-BY)

MAXIMUM SYSTEM DEMAND:

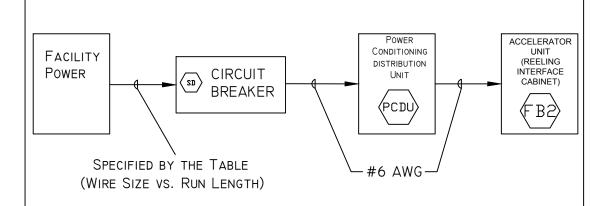
24KVA (IMAGING) 36KVA (INRUSH)

3 POLE, 40 AMPS (480VAC)

RECOMMENDED CONDUCTOR SIZES FOR 0.5% IMPEDANCE OF BRANCH

CONDUCTORS (75°C COPPER CONDUCTORS)			
SIZE	208VAC	415VAC	480VAC
#6AWG	N/A	74ft	99ft
#4AWG	N/A	118ft	158ft
#2AWG	37ft	149ft	199ft
#1AWG	47ft	188ft	251ft
#1/0AWG	59ft	236ft	316ft
#2/0AWG	75ft	298ft	399ft
#3/0AWG	94ft	376ft	503ft
#4/0AWG	119ft	474ft	634ft
250MCM	150ft	598ft	800ft
300MCM	177ft	706ft	945ft
INSTANTANEOUS	66.6A	22.44	29.04
CURRENT	00.0A	33.4A	28.9A
MAXIMUM PH-PH	0.050Ω	0.300Ω	0.220Ω
IMPEDANCE			
MAXIMUM LOAD	3.3V	10.0V	6.4V
VOLTAGE DROP			- · · ·
8 REGULATION AT	1.6%	2.4%	1.3%
MAXIMUM LOAD	1.070	2. 7 / 0	1.070

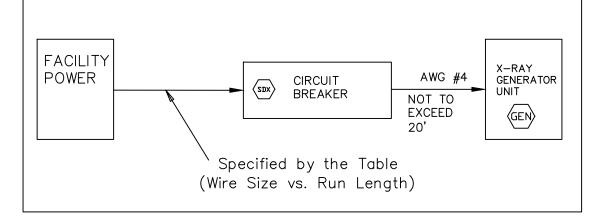
RECOMMENDED CONDUCTOR SIZES, AS LISTED IN THE TABLE ABOVE, ASSUME A PCDU TO PRIMARY CIRCUIT BREAKER DISTANCE OF NO GREATER THAN 15 TO 20 FEET [4572 TO 6096 mm]. IF THE CIRCUIT BREAKER IS TO BE LOCATED AT A GREATER DISTANCE AWAY FROM THE PCDU, THE ADDITIONAL DISTANCE MUST BE CONSIDERED WHEN DETERMINING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

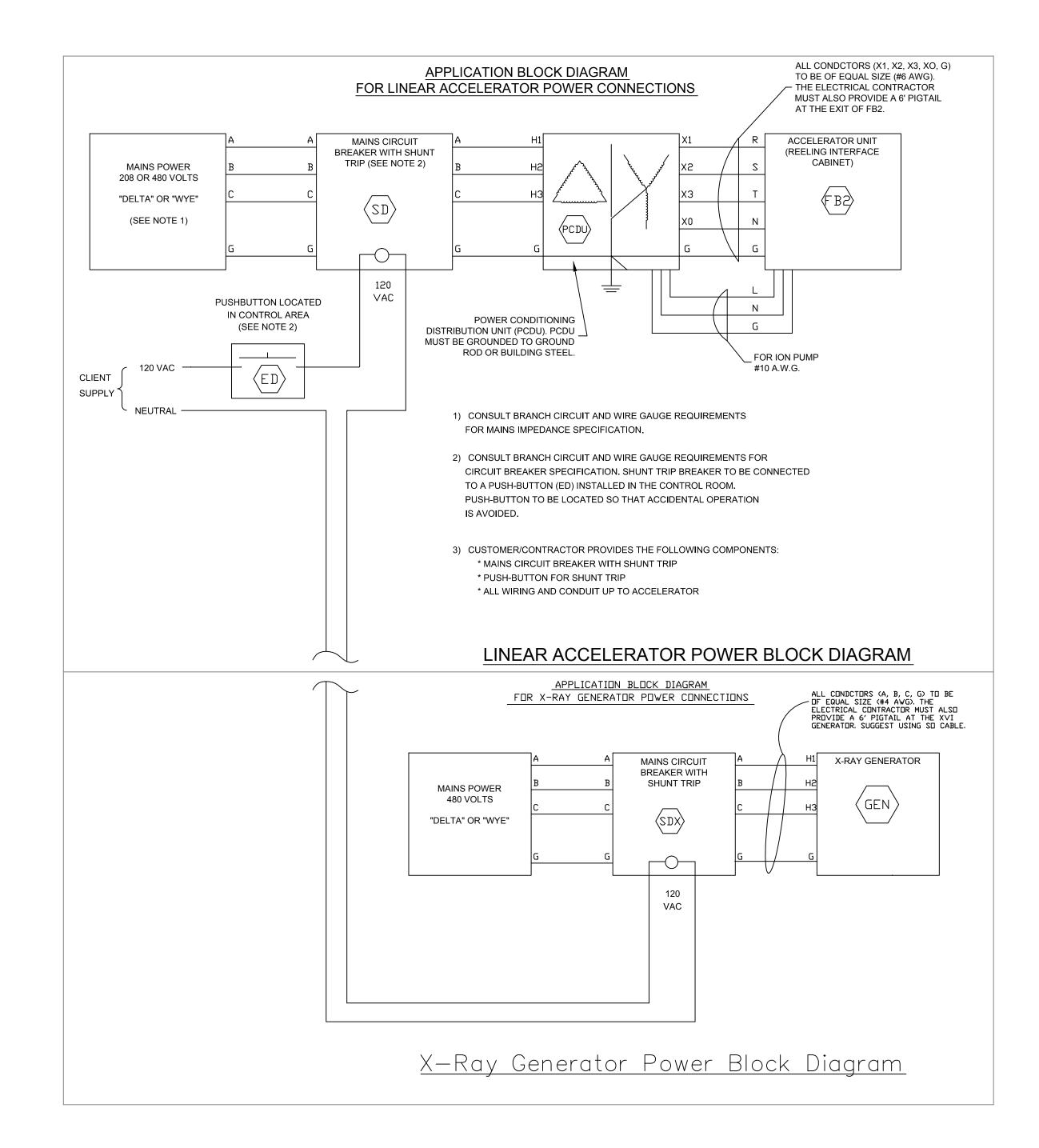


LINEAR ACCELERATOR X-RAY GENERATOR POWER SUPPLY CONFIGURATION

INPUT POWER: PRIMARY CIRCUIT BREAKER: MAXIMUM POWER DEMAND: STANDBY POWER CONSUMPTION:	480VOLTS, 60 CYCLE, 3 PHASE, 4 WIRE 3 POLE, 70 AMPS (480VAC) 40KVA 500W
RECOMMENDED CONDUCTOR SIZES FOR 0.5% CONDUCTORS (75°C COPPER CONDUCTORS) SIZE	6 IMPEDANCE OF BRANCH 480VAC
#4AWG	182ft
#3AWG	230ft
#1/0AWG	290ft
#2/0AWG	365ft
INSTANTANEOUS CURRENT	48.11A
MAXIMUM PH-PH IMPEDANCE	0.320Ω
MAXIMUM LOAD VOLTAGE DROP	24.0V
% REGULATION AT MAXIMUM LOAD	5.0%

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.





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

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

	CELERATORS	
SUPPLY CONFIGURATION:	3 PHASE, 3 WIRE POWER, GROUND, WYE	
NOMINAL LINE VOLTAGE:	480, 240 OR 208 VAC, 60 HZ	
LINE VOLTAGE VARIATION:	+ OR - 6% STEADY STATE INCLUDING SAGS AND SURGES	
LINE VOLTAGE BALANCE:	1% MAXIMUM OF NOMINAL VOLTAGE 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	
HIGH FREQUENCY NOISE:	3.0 VOLTS RMS (5 KHZ - 5 MEGHZ)	
GROUND CONDUTOR IMPEDENCE:	0.1 OHMS @ 60HZ TO NEUTRAL GROUND BONDING POINT.	

ELECTRICAL REQUIREMENTS NOTES

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

NOMINAL VOLTAGES PER ANSI C84.1

PROTECTION.

PHASE CONDUCTORS TO BE SIZED FOR IMPEDANCE PER ELEKTA

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

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 CONDUIT RUNS.
- 3. 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, ETC.
- 7. ALL POWER CONNECTIONS TO THE LINEAR ACCELERATOR MUST BE MADE BY A LICENSED ELECTRICIAN.

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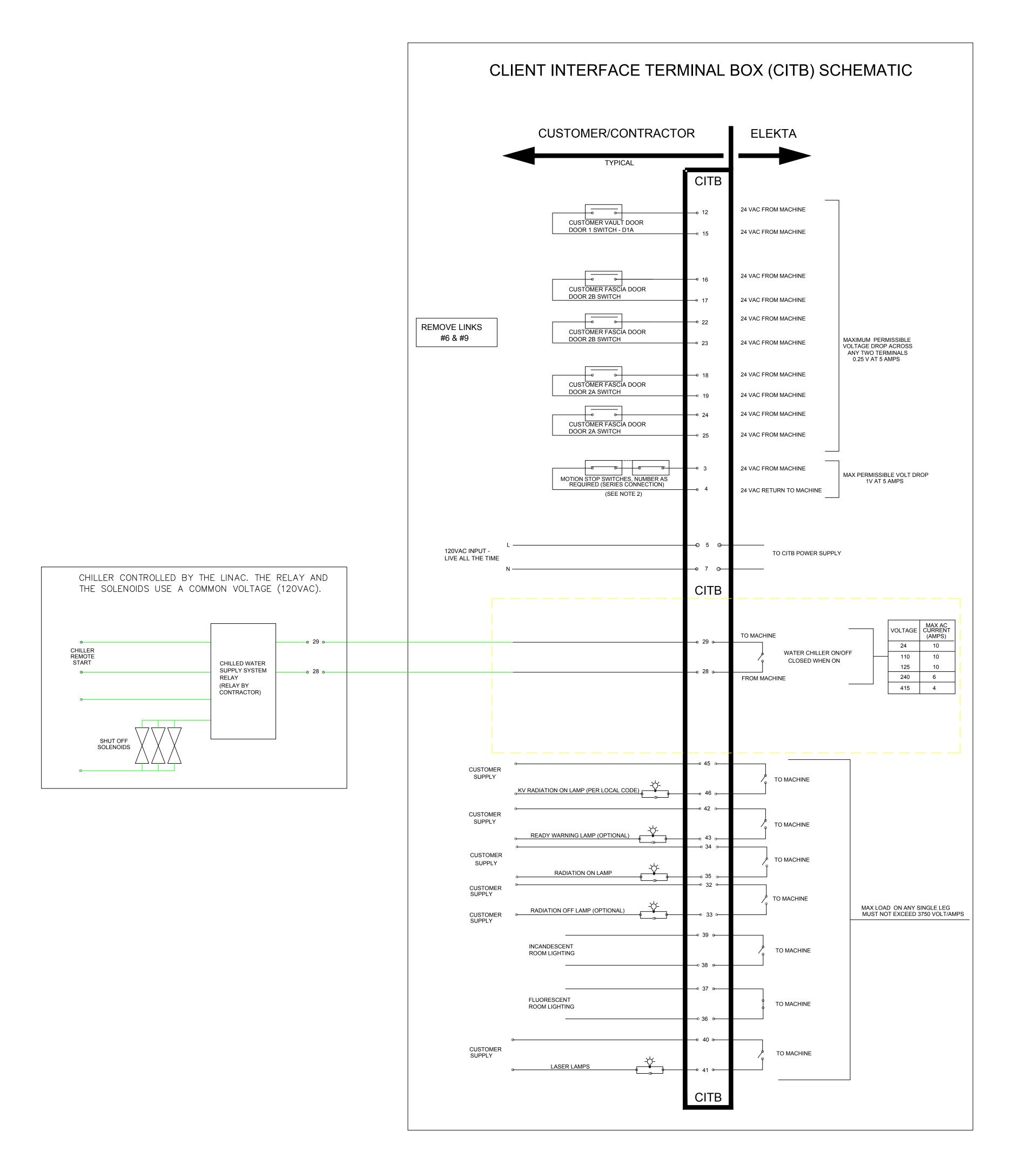
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THE CLIENT INTERFACE TERMINAL BOX (CITB)

THE INTERFACE BETWEEN THE CUSTOMER'S WIRING AND THE LINEAR_ACCELERATOR IS A BOX MOUNTED PRINTED CIRCUIT BOARD (CITB). THE CITB IS SUPPLIED BY ELEKTA AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND COMPRISES 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.

MOTION STOP SWITCHING

SAFETY GUIDELINES REQUIRE THAT EASILY RECOGNIZABLE MOTION STOP SWITCHES ARE TO BE POSITIONED IN THE TREATMENT ROOM, EQUIPMENT ROOM AND IN THE CONTROL ROOM. IN AN EMERGENCY, ANY MOTION STOP SWITCH CAN BE USED TO REMOVE POWER TO THE RADIATION AND MOVEMENT CIRCUITS OF THE LINEAR ACCELERATOR. THIS IS ACHIEVED BY CONNECTING ALL MOTION STOP SWITCHES IN SERIES TO THE CITB. THE MOTION STOP SWITCHES MUST BE A TYPE THAT REQUIRES RESET BY A MANUAL OPERATION (PUSH/PULL TYPE).

ARNING LIGHTS

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.

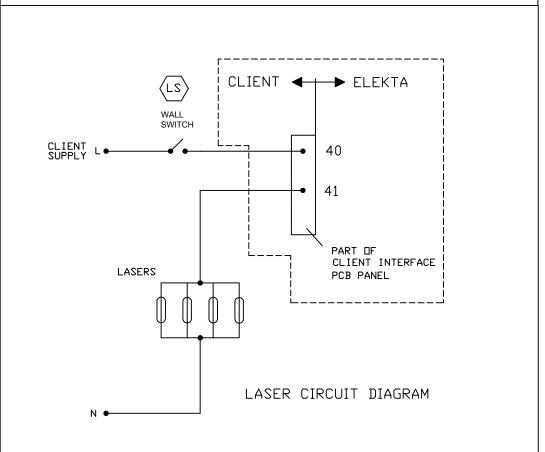
A BUTTON IS INCLUDED ON THE HAND HELD CONTROLLER (HHC) FOR THE CUSTOMER TO SWITCH THE ROOM LIGHTS TO A PRE-DETERMINED LEVEL. THE CONTRACTOR SHOULD CONNECT THE TREATMENT ROOM LIGHTS TO THE CLIENT INTERFACE TERMINAL BOX (CITB). ROOM LASERS ARE OPERATED VIA THE CLIENT INTERFACE TERMINAL BOX (CITB) BY A BUTTON ON THE HHC.

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 MOTION STOP 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 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 DUTLET BE SWITCHED VIA COMMIND INJURIF WALL SWITCH LOCATED AT A CONVENIENT POSITION IN THE ROOM. IT IS ALSO POSSIBLE TO SWITCH THE LASERS DN/DFF VIA THE ACCELERATOR.

(SEE CLIENT INTERFACE TERMINAL BOX SCHEMATIC SHEET E10)



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400 PERIMETER CENTER TERRACE
SUITE 50
ATLANTA, GEORGIA 30346
Tel. (770) 300-9725
Fax (770) 729-1585
www.elekta.com

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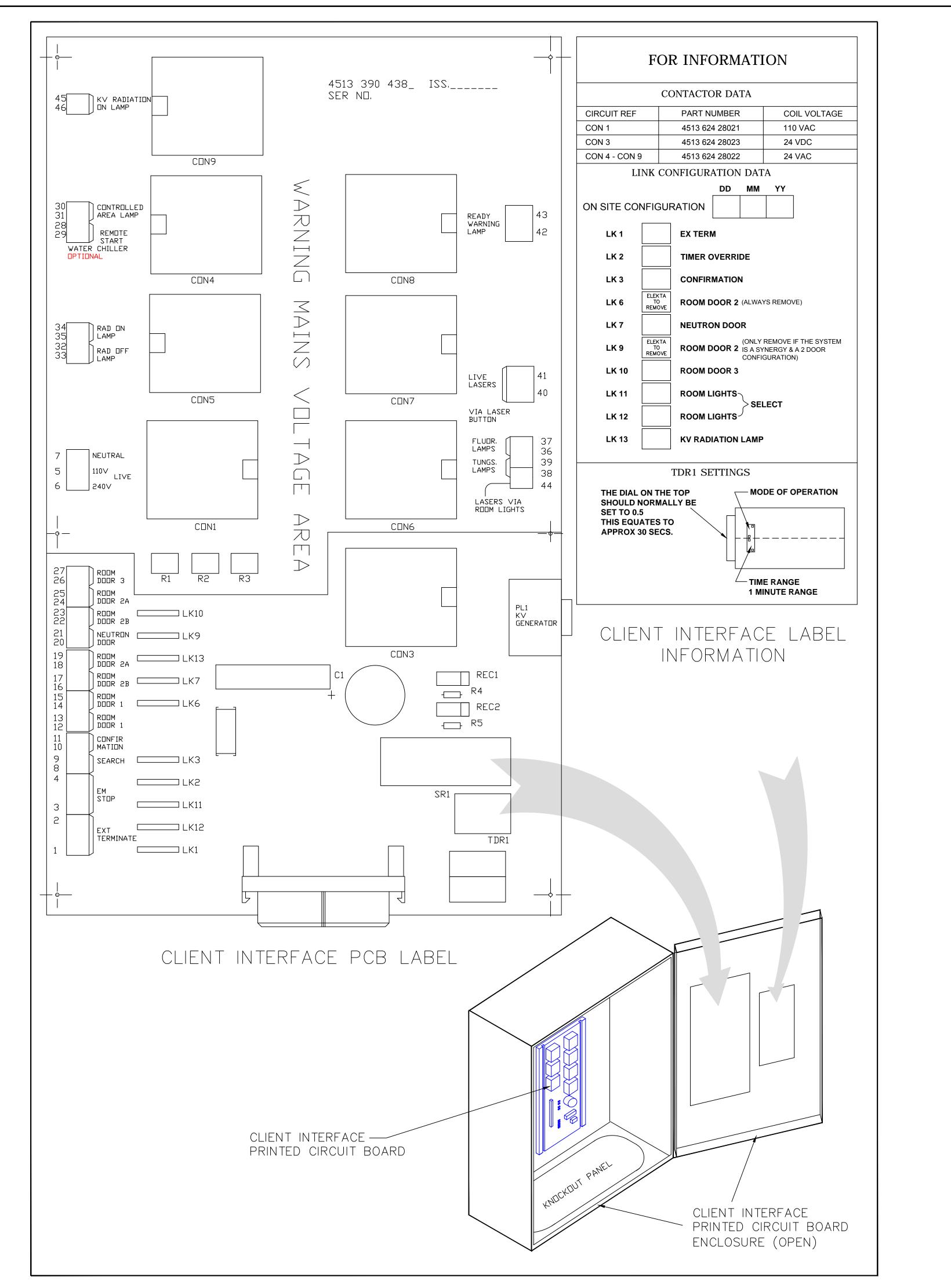
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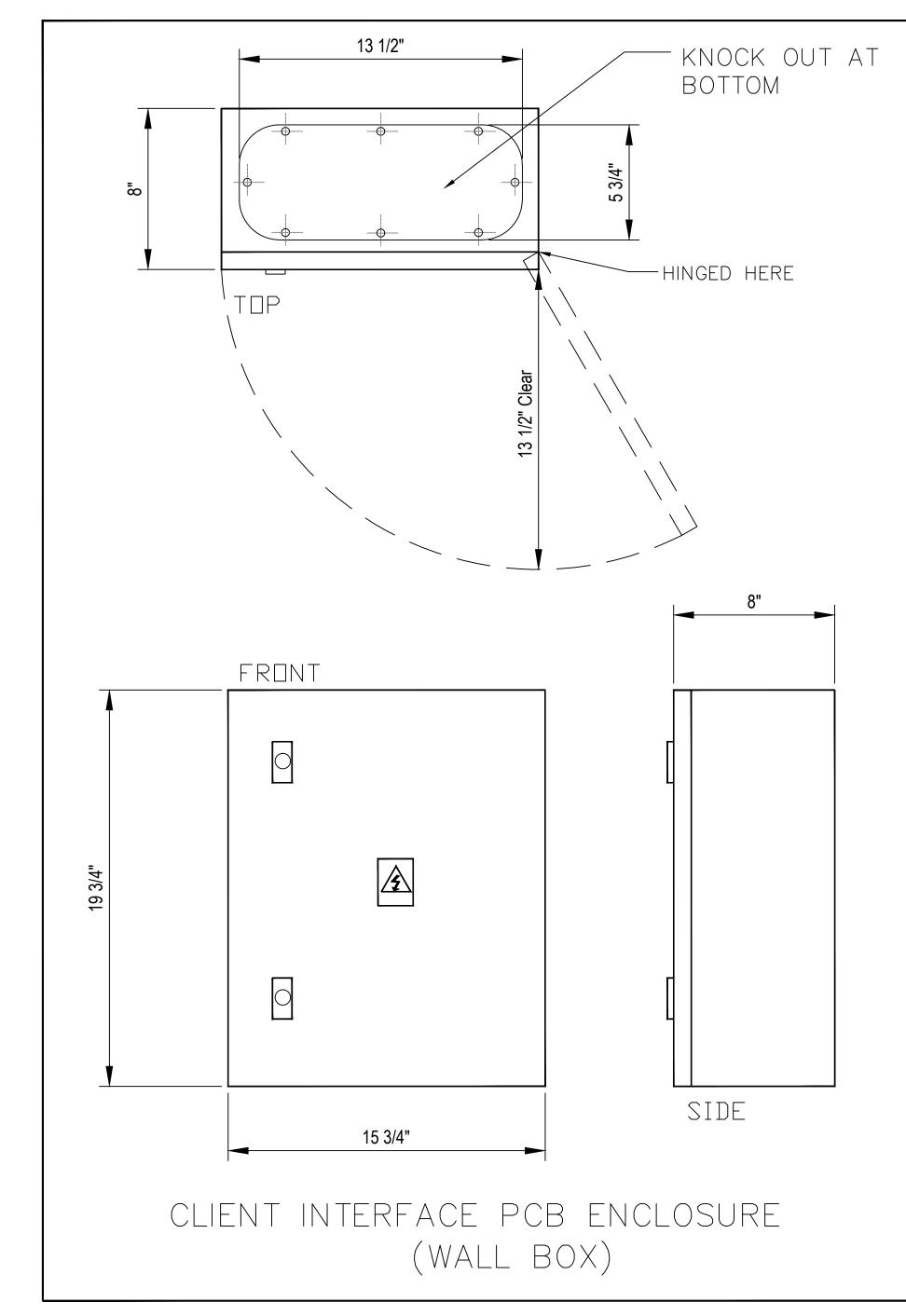
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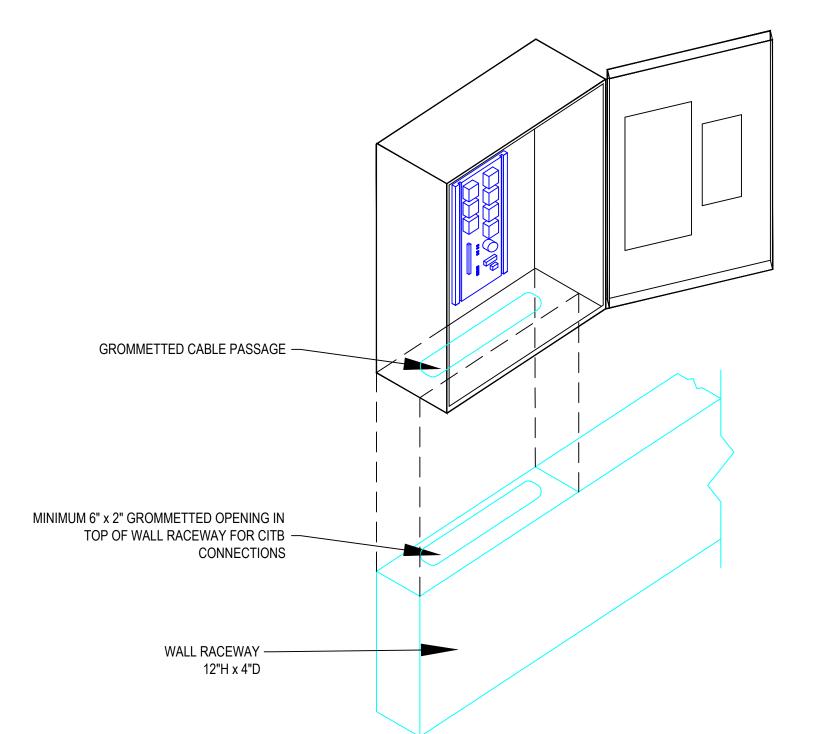
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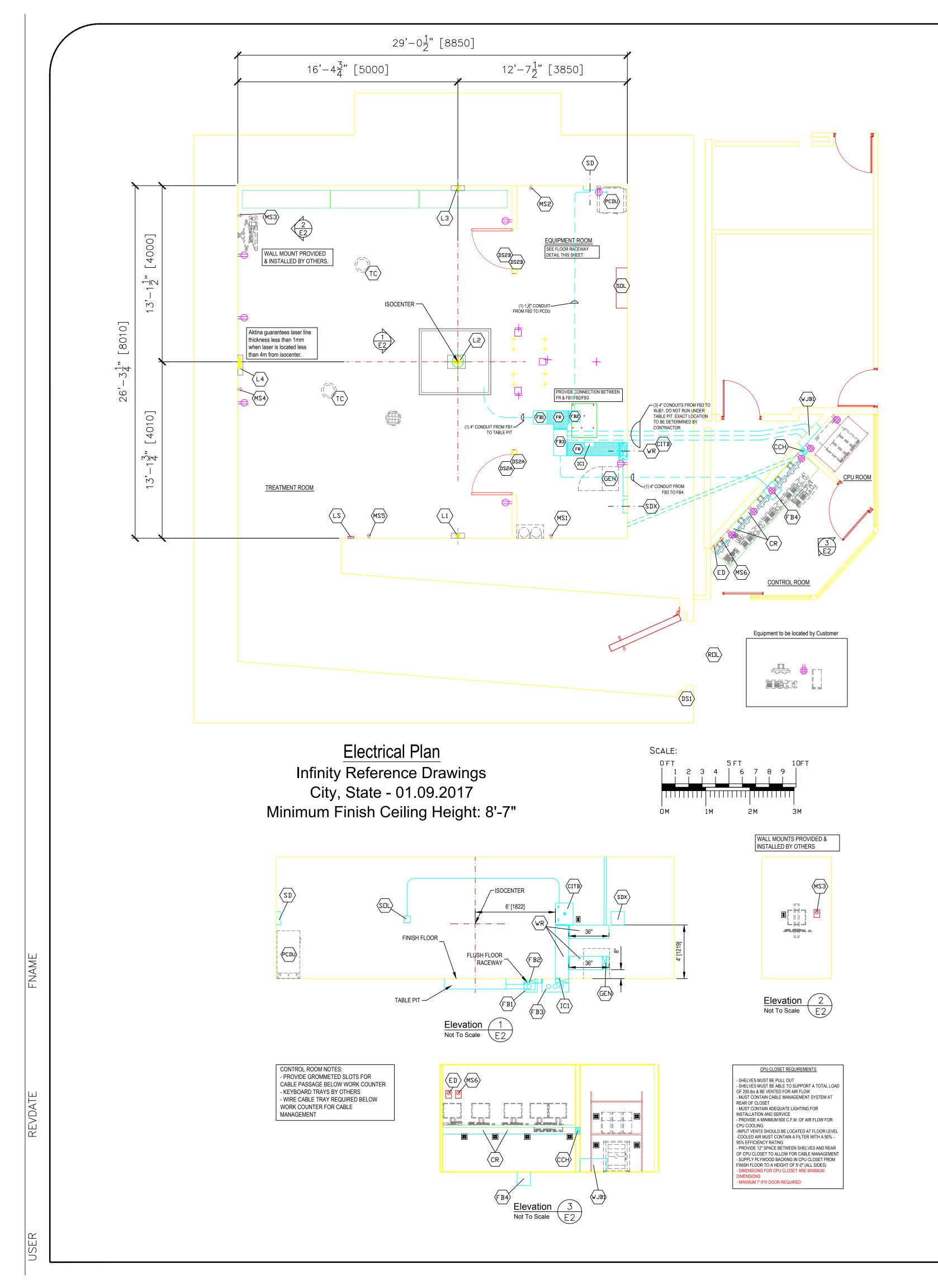
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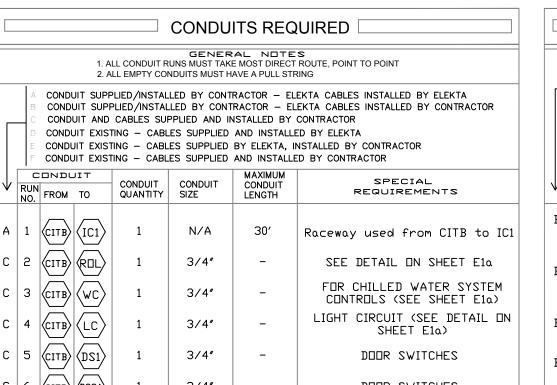
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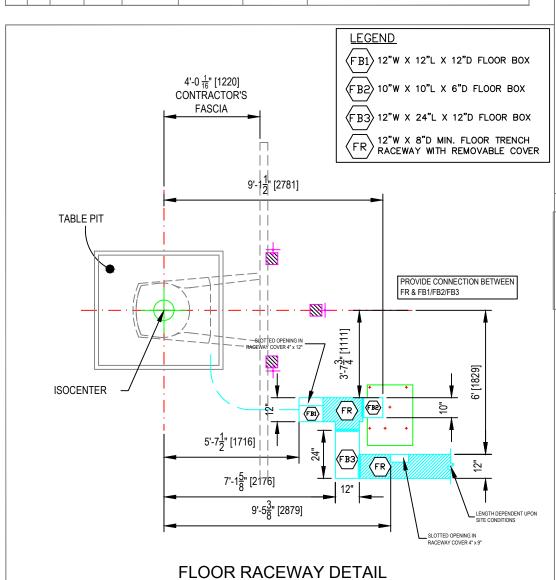
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A 1 CITB (IC1) C 2 CITB ROL C 3 CITB WC C 4 CITB (LC) C 5 CITB DS1 C 6 CITB DS2A 3/4" DOOR SWITCHES 3/4" DOOR SWITCHES C 8 CITB LS LASER MAIN POWER ON/OFF 3/4" (SEE DETAIL ON SHEET E1a) $C \mid 9 \mid \langle LS \rangle \mid \langle L1 \rangle \mid$ 3/4" LASER RUN $| C | 10 | \langle L1 \rangle | \langle L2 \rangle |$ 3/4" LASER RUN C 11 (L2)(L3) 3/4" LASER RUN C 12 (L3) (L4) 3/4" LASER RUN C 13 CITB (MS1) 3/4" SAFETY CIRCUIT C 14 (MS1) (MS2) 3/4" SAFETY CIRCUIT C 15 (MS2) (MS3) 3/4" SAFETY CIRCUIT C 16 (MS3) (MS4) 3/4" SAFETY CIRCUIT C 17 (MS4) (MS5) 3/4" SAFETY CIRCUIT C 18 (MS5) (MS6) 3/4" SAFETY CIRCUIT С 19 (м56) (СІТВ) SAFETY CIRCUIT | C | 20 | (SD) | (ED) | 3/4" SHUNT TRIP CIRCUIT C 21 SD CDD SEE SHEET E1 C 22 PCDU FB2 1 1/2" LEAVE 6' PIGTAIL (SEE SHEET E1) C 23 SD POWER PER NEC PER NEC PER NEC A 24 PIT FBI A 25 (FB3) (WJBI) 4" 68'-10" CONDUITS TO BE WATER TIGHT A 26 (FB3) (FB4) 4" 68'-10" CONDUITS TO BE WATER TIGHT C 27 SDX HOSP PER NEC PER NEC PER NEC TO HOSPITAL DISTRIBUTION PANEL VIA WR2 TO GEN - USE MULTISTRAND HIGH FLEX CABLE (WELDER'S CABLE) C 28 SDX GEN SEE NOTE SEE NOTE C 29 CITB SOL 3/4" SOLENDID CONNECTIONS



See Electrical Plan for Additional Detail

ELECTRICAL LEGEND

A FURNISHED AND INSTALLED BY ELEKTA B FURNISHED BY CUSTOMER/CONTRACTOR AND INSTALLED BY CUSTOMER/CONTRACTOR. (INSTALLED BY CUSTOMER/CONTRACTOR

DFURNISHED BY ELEKTA AND INSTALLED BY CONTRACTOR 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 & SDX. SEE DETAILS ON SHEETS E1 & E1a. EXACT LOCATIONS DETERMINED AT TIME OF INSTALLATION.

B (IC1) 4"W x 9"L GROMMETED CABLE PASSAGE IN COVER OF FLOOR RACEWAY

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

B | (LS) | WALL SWITCH FOR LASER MAIN POWER ON/OFF

MOTION STOP PUSHBUTTON SWITCH FOR RADIATION AND MOVEMENTS. EXACT LOCATION TO BE DETERMINED AT TIME OF INSTALLATION (SEE NOTE 2, SHEET E1a: RESISTANCE SPECIFICATION). MANUAL RESET PUSH/PULL TYPE BUTTON.

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

B ROL 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 FR 12"W x MIN. 8"D FLOOR TRENCH RACEWAY, FLUSH MOUNTED WITH / 4" THICK STEEL COVER PLATE

 $_{\rm B}$ | $_{\rm WR}$ | 12"W x 3 $_{\rm 2}^{\rm 1}$ "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 FB1 12"W x 12"L x 12"D FLOOR BOX WITH REMOVABLE 1 THICK STEEL COVER PLATE, FLUSH MOUNTED FOR TERMINATION OF UNDERSLAB | ⟨FB4⟩ | 4" CONDUITS

B (FB2) 10"W x 10"L x 12"D FLOOR BOX, FLUSH MOUNTED WITH FINISH FLOOR. NO COVER PLATE

B FB3 12"W x 24"L x 12"D FLOOR BOX WITH REMOVABLE 1" THICK STEEL COVER PLATE, FLUSH MOUNTED FOR TERMINATION OF UNDERSLAB

B WJBI) 12"H x 24"L x 6"D WALL JUNCTION BOX WITH REMOVABLE \(\frac{1}{4}\)" THICK STEEL COVER PLATE, FLUSH MOUNTED WITH FINISH WALL FOR TERMINATION OF UNDERSLAB 4" CONDUITS.

B | (CDU) | CONNECT WITH FLEX CONDUIT INTO PCDU CABINET

B TC 120VAC CONVENIENCE OUTLETS PROVIDING POWER TO CCTV CAMERAS; LOCATED ABOVE FINISH CFILING. CAMERAS; LOCATED ABOVE FINISH CEILING.

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

3 PHASE SHUNT TRIP CIRCUIT BREAKER. SEE DETAILS ON SHEET

6" x 6" WALL CHASE FOR CONNECTION BETWEEN CPU CLOSET & CONTROL ROOM. LOCATE BELOW COUNTERTOP. MATCH HEIGHT TO

CR 6" x 6" WIRE CABLE TRAY MOUNTED UNDER COUNTERTOP FOR CABLE MANAGEMENT.

SOLENOID VALVES FOR CHILLED WATER LINES. SIZE AS REQUIRED. LOCATION DEPENDENT UPON FINAL SOLENOID LOCATIONS.

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 DUTLET BE SWITCHED VIA A COMMON DN/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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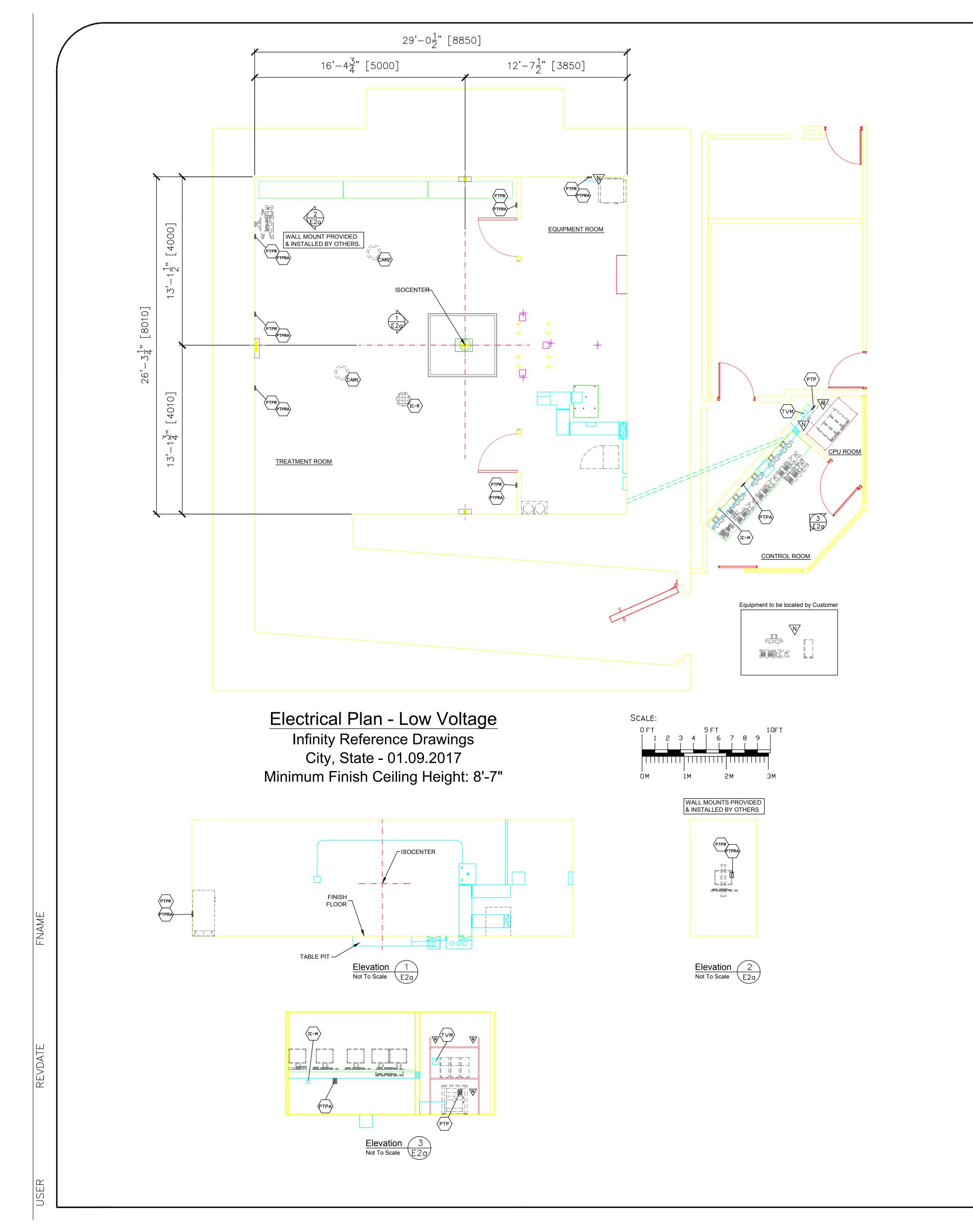
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SEE SHEET E2a FOR LOW **VOLTAGE REQUIREMENTS**



CONDUITS REQUIRED GENERAL NOTES

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

2. ALL EMPTY CONDUITS MUST HAVE A PULL STRING

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		CONDUIT	CONDUIT	MAXIMUM	SPECIAL	
Ψ	RUN NO.			CONDUIT QUANTITY	SIZE	CONDUIT LENGTH	REQUIREMENTS
С	1	(VM)	(CAM1)	1	3/4″	_	1 SHIELDED CAT6e CABLE TERMINATED WITH RJ45 WALL PLATES ON BOTH END
С	2	(TVM)	(CAM2)	1	3/4"	_	1 SHIELDED CAT6e CABLE TERMINATED WITH RJ45 WALL PLATES ON BOTH END
С	3	(IC-M)	(IC-R	1	3/4"	_	PROVIDE WEST PENN 356 (OR EQUIVALENT) CABLE
С	4	PTP	PTPR	6	3/4"	_	For CATGE Cable (CPU CLOSET)
С	5	(PTPA)	(PTPRA)	6	3/4"	_	For CAT6e Cable (CONTROL ROOM)

ELECTRICAL LEGEND

A FURNISHED AND INSTALLED BY ELEKTA
B FURNISHED BY CUSTOMER/CONTRACTOR AND INSTALLED BY CUSTOMER/CONTRACTOR. CINSTALLED BY CUSTOMER/CONTRACTOR DFURNISHED BY ELEKTA AND INSTALLED BY CONTRACTOR

SUPPLIED BY CUSTOMER G OPTIONAL

— ITEM SYMBOL DETAIL SHEET-

DESCRIPTION

- B NETWORK, FULLY FUNCTIONAL RJ45B OUTLET 10/100/1000 BASE TX SYSTEM DOUBLE GANG BOX FOR CCTV CONNECTIONS, LOCATED IN CPU CLOSET. CONTRACTOR TO INSTALL CATGE CABLES FROM TVM TO CAM1/CAM2, TERMINATED ON BOTH ENDS WITH RJ45 WALL
- SINGLE GANG BOX FOR CCTV CONNECTIONS, LOCATED AT CCTV CAMERA LOCATIONS. CONTRACTOR TO INSTALL CAT6e CABLE FROM CAM1/CAM2 TO TVM, TERMINATED ON BOTH ENDS WITH RJ45 WALL PLATES.
- B PROVIDE SINGLE GANG BOX LOCATED 6" BELOW COUNTERTOP. CONTRACTOR TO INSTALL WEST PENN 356 (OR EQUIVALENT) CABLE FROM IC-M TO IC-R. PROVIDE A 20' PIGTAIL AT BOTH
- B PROVIDE SINGLE GANG BOX LOCATED AT SPEAKER. CONTRACTOR TO INSTALL WEST PENN 356 (OR EQUIVALENT) CABLE FROM IC-R TO IC-M. PROVIDE A 20' PIGTAIL AT BOTH ENDS.
- B CAT6e SHIELDED CABLE CONNECTION. TERMINATE WITH 6 PORT RJ45 WALL PLATE. SIZE JUNCTION BOX AS REQUIRED. LOCATE IN B CAT6e SHIELDED CABLE CONNECTION. TERMINATE WITH 6 PORT RJ45 WALL PLATE. SIZE JUNCTION BOX AS REQUIRED. LOCATE IN CONTROL ROOM.
- B CAT6e SHIELDED CABLE CONNECTION. TERMINATE WITH DUAL RJ45 WALL PLATE.



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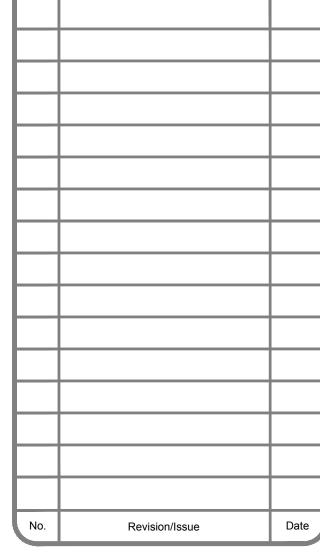
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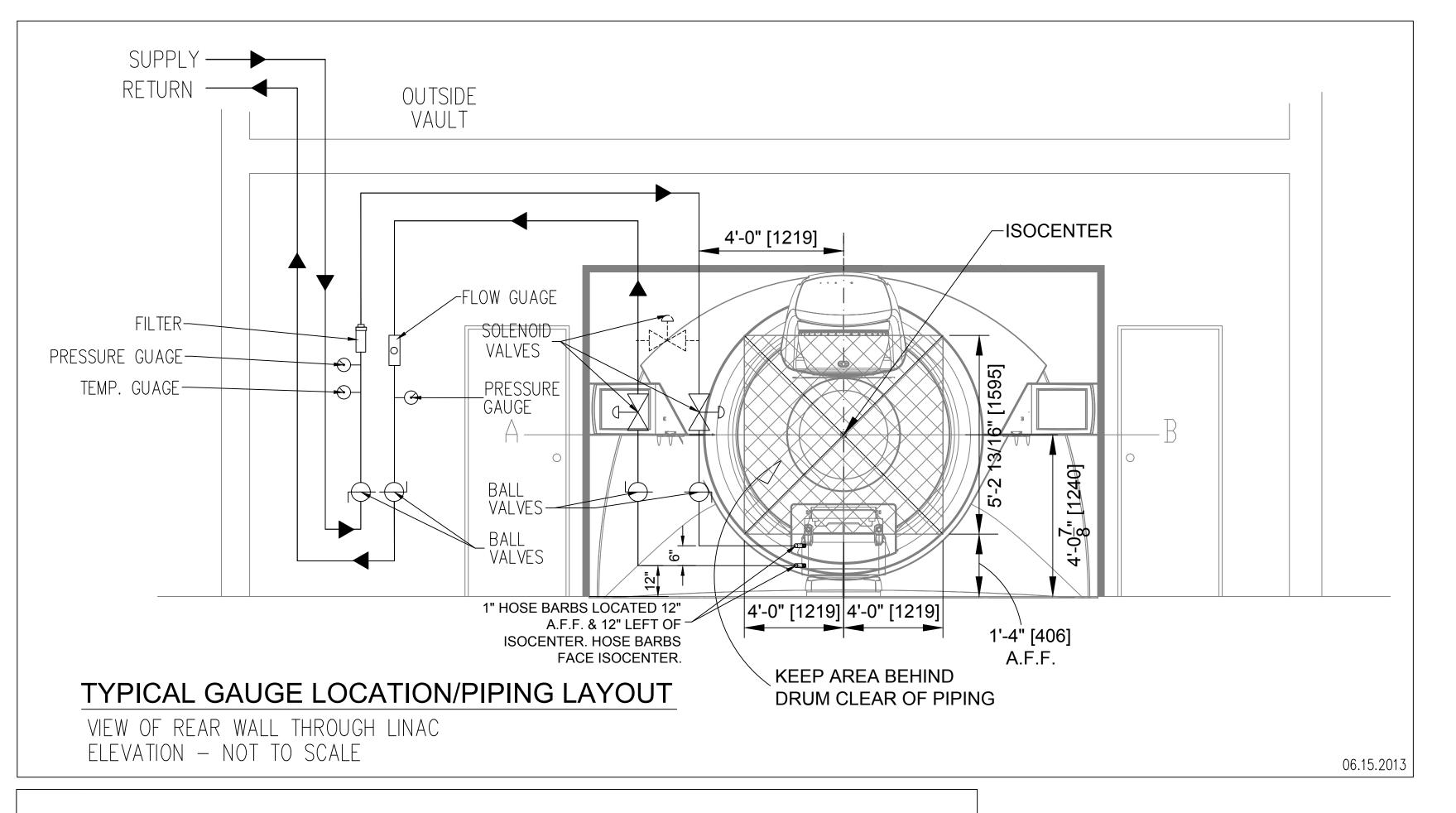
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CONTROL ROOM PLANNING SERVER TYPICAL NETWORK DIAGRAM



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, PURCHASED LOCALLY BY THE CUSTOMER.

4. TYPICAL WATER CONNECTIONS LOOPED TOGETHER FOR TESTING.

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.

- WATER CHILLER, ALL WATER PIPING, & ALL GAUGES ARE THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR TO PROVIDE AND INSTALL. FINAL CHILLER CONNECTIONS WILL BE MADE BY ELEKTA FROM THE HOSE BARBS TO THE LINAC WITH **ELEKTA PROVIDED FLEXIBLE HOSES.**



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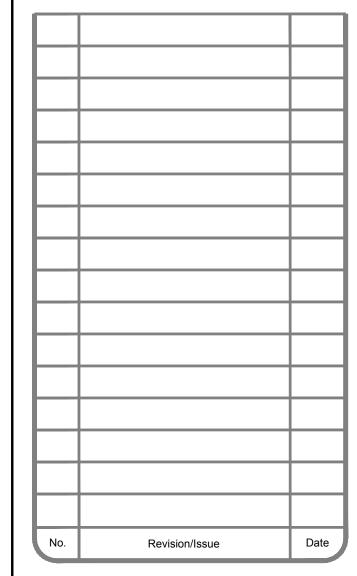
ELEKTA, INC. SITE PLANNING & DESIGN 400 PERIMETER CENTER TERRACE SUITE 50

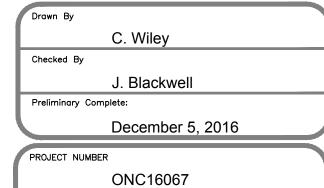
ATLANTA, GEORGIA 30346 Tel. (770) 300-9725 Fax (770) 729-1585 www.elekta.com

Project Name and Address

INFINITY DELIVERY SYSTEM

REFERENCE DRAWING





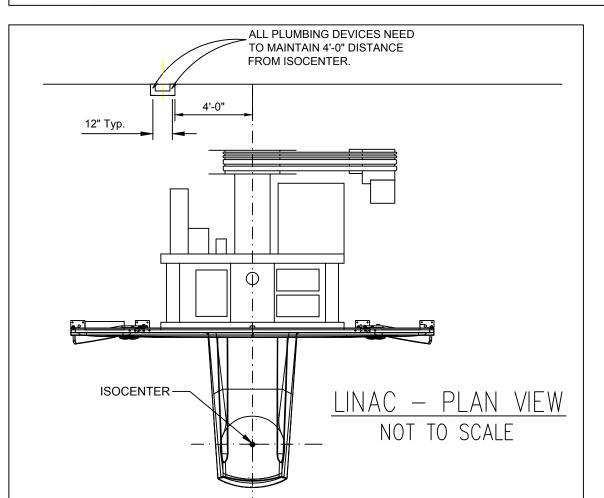
2015-117101-CS V.3 December 17, 2015

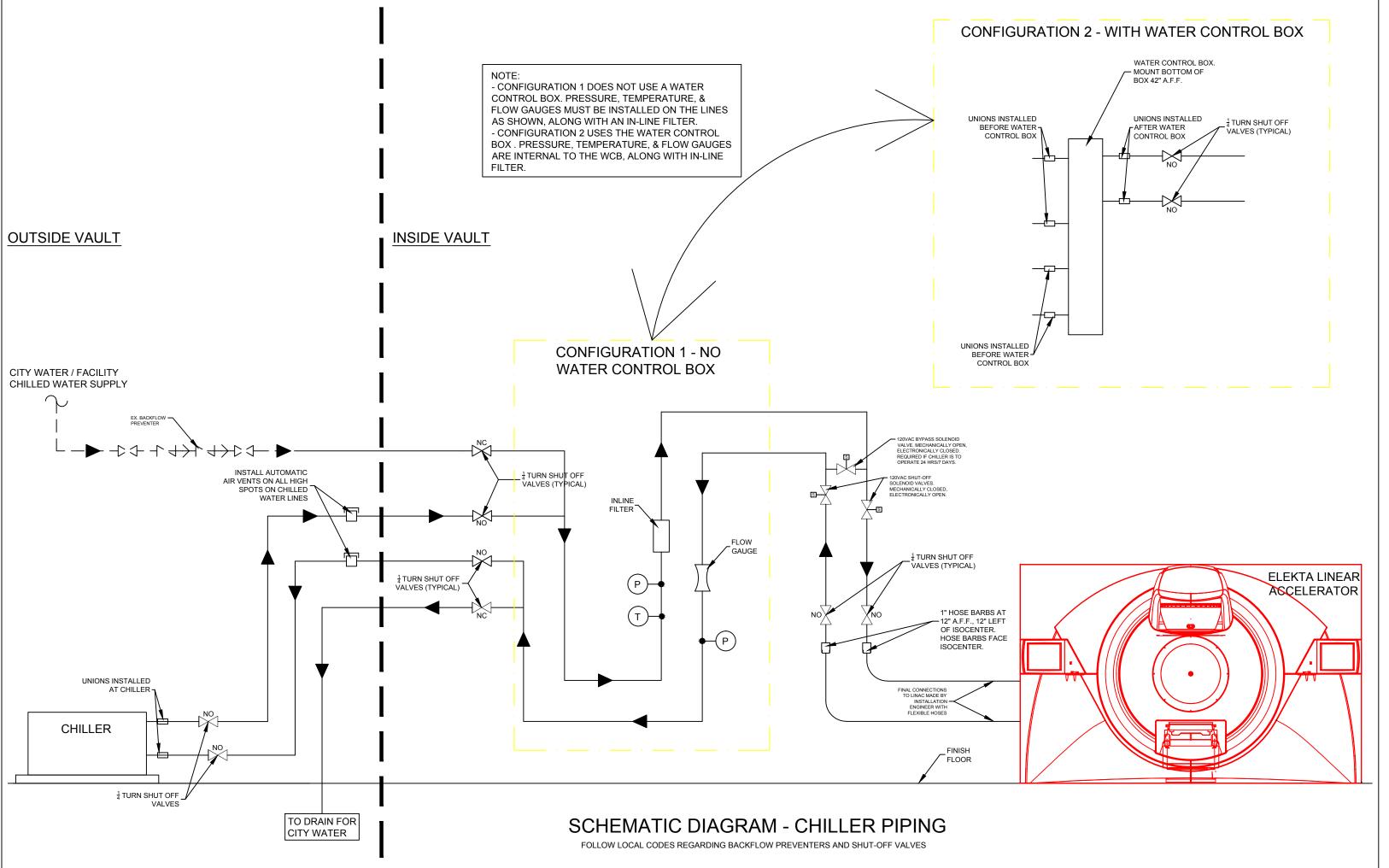
CUSTOMER APPROVAL

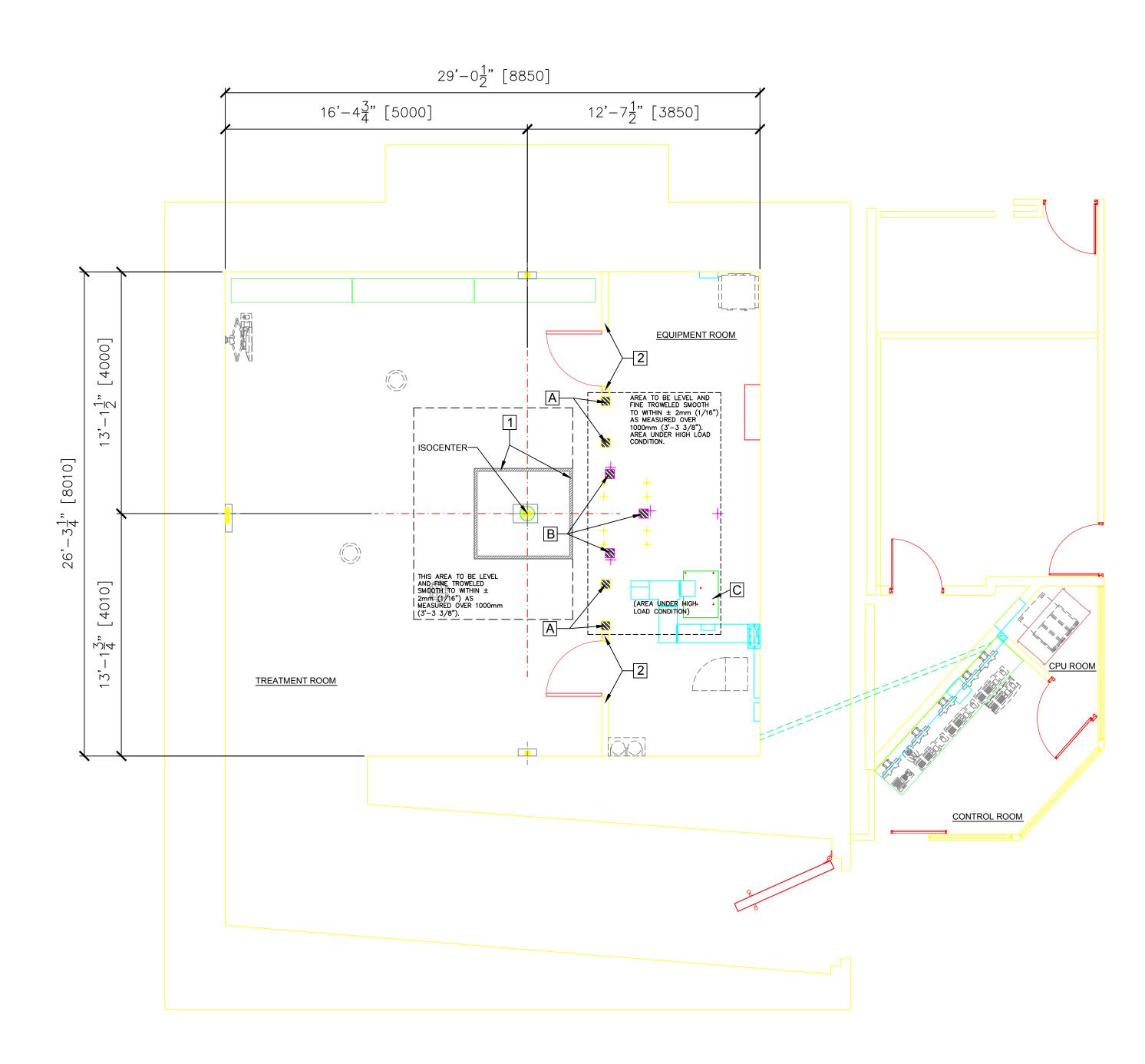
QUOTATION NUMBER

INFINITY Ref Dwg Finals Complete: Mechanical/Laser January 9, 2017 (Sheet 10 of 20) NONE

OUTSIDE VAULT INSIDE VAULT MANUAL BALL TYPE / SHUT-OFF VALVE CITY WATER / FACILITY CHILLED WATER SUPPLY TEMPERATURE PRESSURE _GAUGE ← GAUGE SOLENOID VALVE ----MECHANICALLY CLOSED FILTER — ELECTRICALLY OPEN CHILLER 120VAC BYPASS PRESSURE SOLENOID VALVE GAUGE MECHANICALLY OPEN GAUGE ELECTRICALLY CLOSED MANUAL BALL TYPE SHUT-OFF 120VAC SHUT-OFF SOLENOID VALVE ---MECHANICALLY CLOSED ELECTRICALLY OPEN TO DRAIN (IF CITY WATER ONLY) / FACILITY CHILLED WATER SUPPLY MANUAL BALL TYPE SHUT-OFF VALVE SCHEMATIC DIAGRAM - CHILLER PIPING ACCELERATOR FOLLOW LOCAL CODES REGARDING BACKFLOW PREVENTERS AND SHUT-OFF VALVES

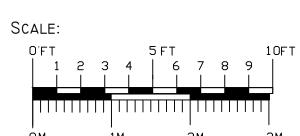






Support Plan

Infinity Reference Drawings City, State - 01.09.2017 Minimum Finish Ceiling Height: 8'-7"



SUPPORT NOTES:

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)

- 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] secured to the floor with 1/2" x 3 15/16" [m12 x 100mm] anchors. (See Detail 2)
- 1. Plates A, B, and C are provided & anchored to finish floor by Elekta, during equipment installation. (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)
- 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 LAYERED). (See Detail 1)
- 4. All laser mounting plates, anchors, and mounting structures are supplied & installed by contractor.
- 5. 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 copy of the analysis to Elekta.
- 6. 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 before the Linac can be delivered.
- Fascia wall doors must not have self closers.

EQUIPMENT SUPPORT INFORMATION

1. GENERAL

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

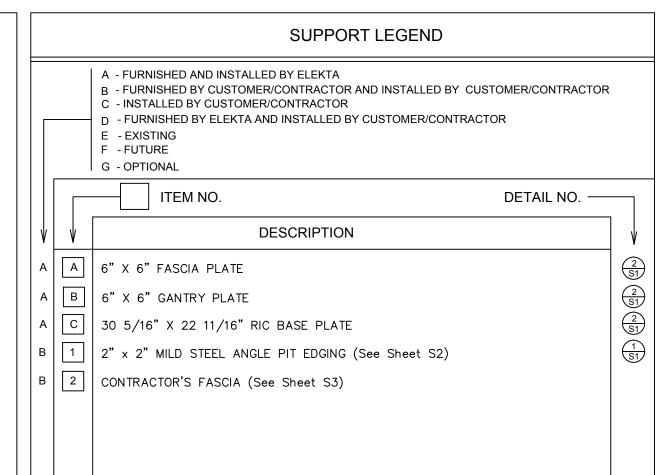
ELEKTA PROVIDES WITH THIS PLAN AND SPECIFICATIONS, INFORMATION RELATIVE TO EQUIPMENT SIZE, WEIGHT, SHAPE, ANCHORING HOLE LOCATIONS, AND FORCES (SEISMIC ZONE 4) WHICH MAY BE EXERTED ON ANCHORING FASTENERS. THE CUSTOMER SHALL BE SOLELY RESPONSIBLE, THROUGH THE ENGINEER OF RECORD FOR THE BUILDING, TO PROVIDE, ON 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

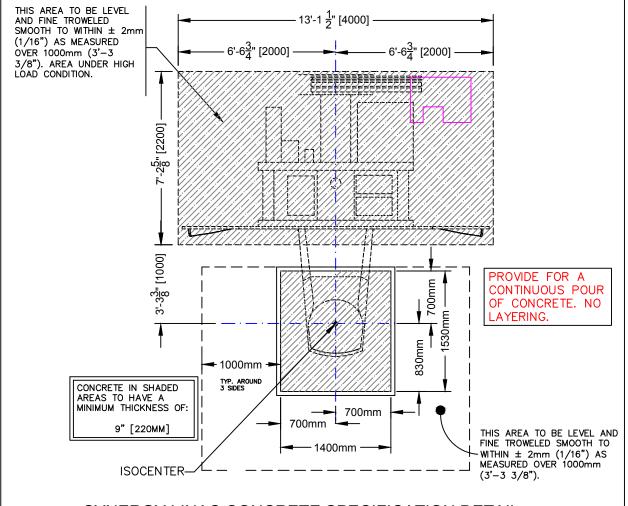
SITE COORDINATOR PRIOR TO SPECIFYING ANCHOR METHODS. 3. FLOOR LOADING AND SURFACE

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 WITHIN ± 1/16 INCH [2mm].

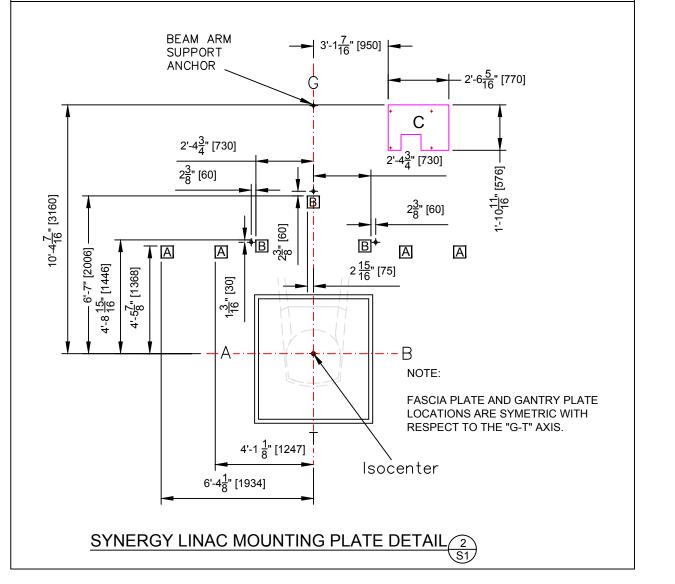
4. LIGHTING

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.





SYNERGY LINAC CONCRETE SPECIFICATION DETAIL 1





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Project Name and Address

INFINITY DELIVERY SYSTEM

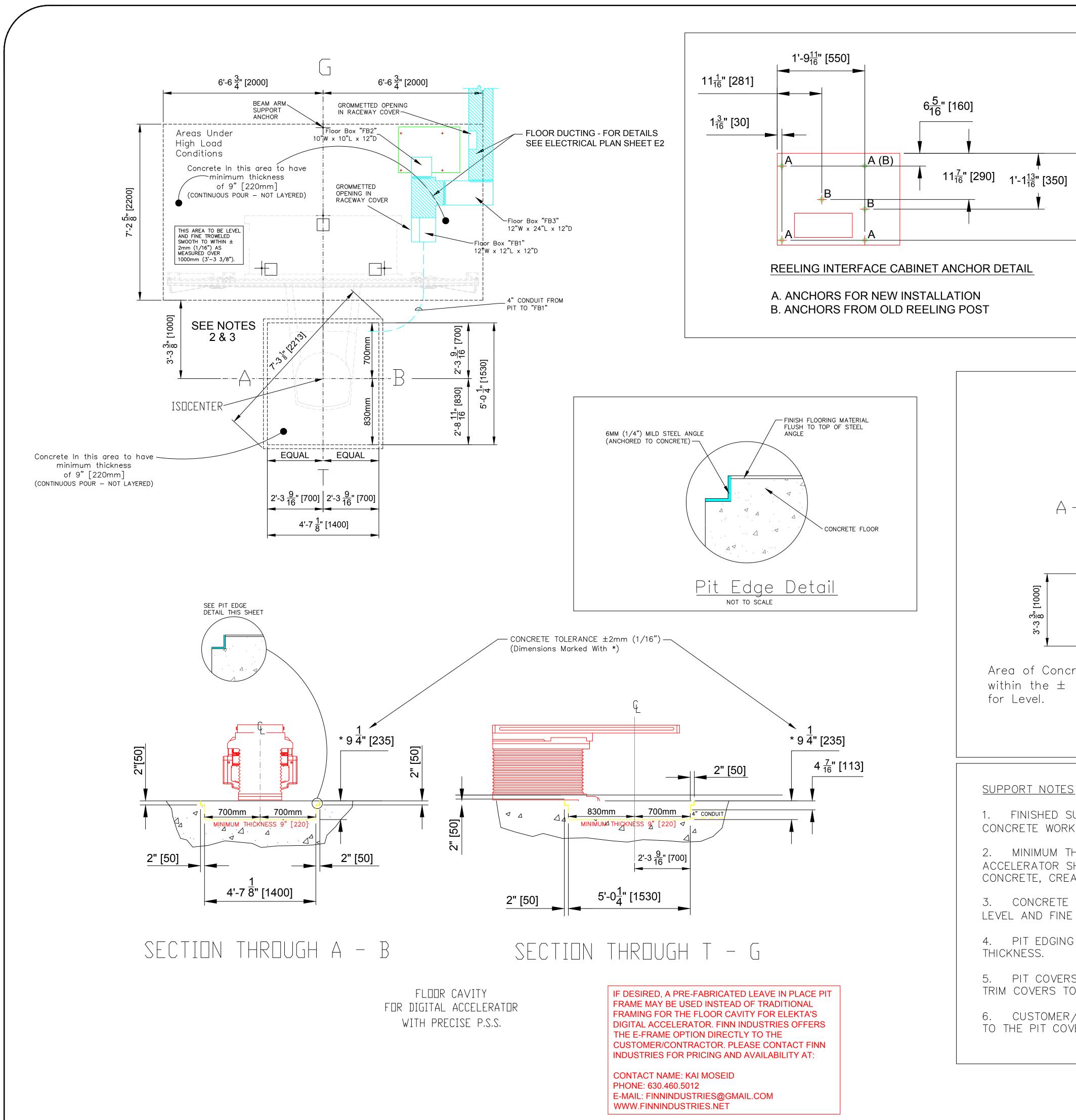
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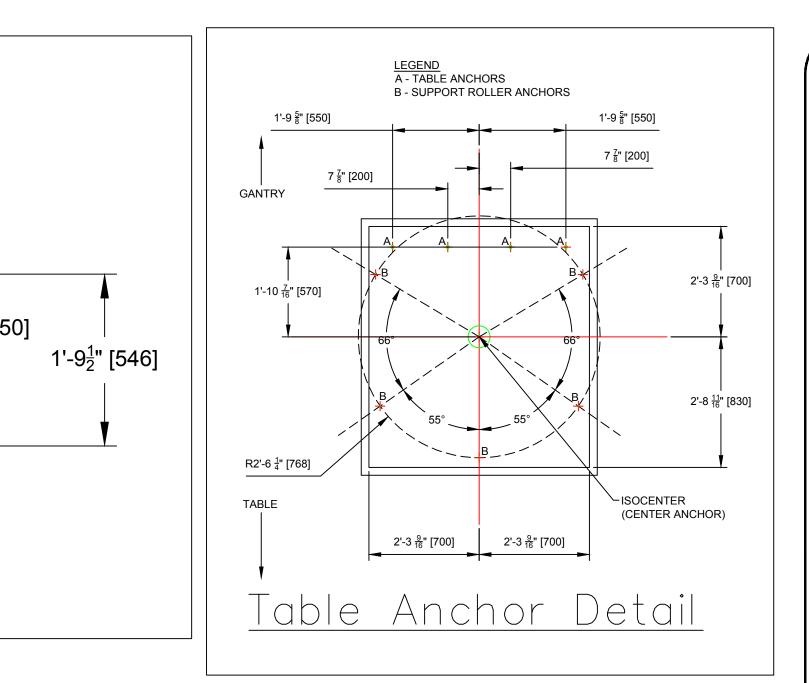
No.	Revision/Issue	Date

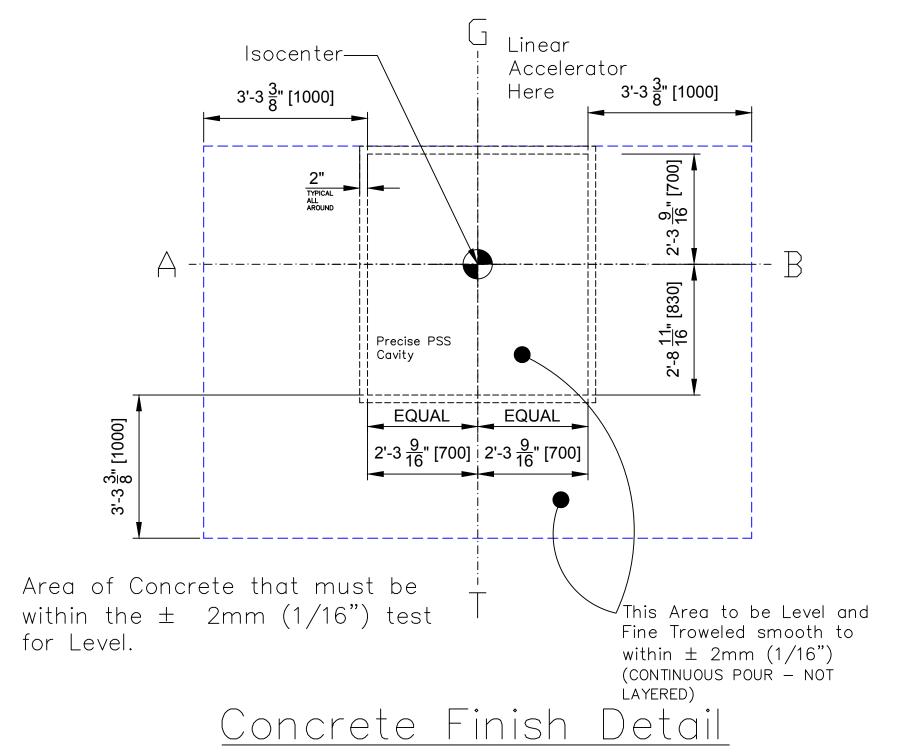
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PROJECT NUMBER	1
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QUOTATION NUMBER	1
	4
QUOTATION DATE	
CUSTOMER APPROVAL	1
ELEKTA APPROVAL	7
Preliminary Complete: PROJECT NUMBER QUOTATION NUMBER QUOTATION DATE CUSTOMER APPROVAL	

ect	Sheet
FINITY Ref Dwg	Q1
s Complete:	J I
nuary 9, 2017	Support Plan
•	(Shoot 11 of 20)

1/4" = 1'-0"







SUPPORT NOTES

- 1. FINISHED SURFACE DIMENSIONS (Length, Width, & Diagonal) 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 9" (220mm) 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 & TABLE CENTER DIAL.



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Project Name and Address

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INFINITY DELIVERY SYSTEM REFERENCE DRAWING

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No.	Revision/Issue	Date

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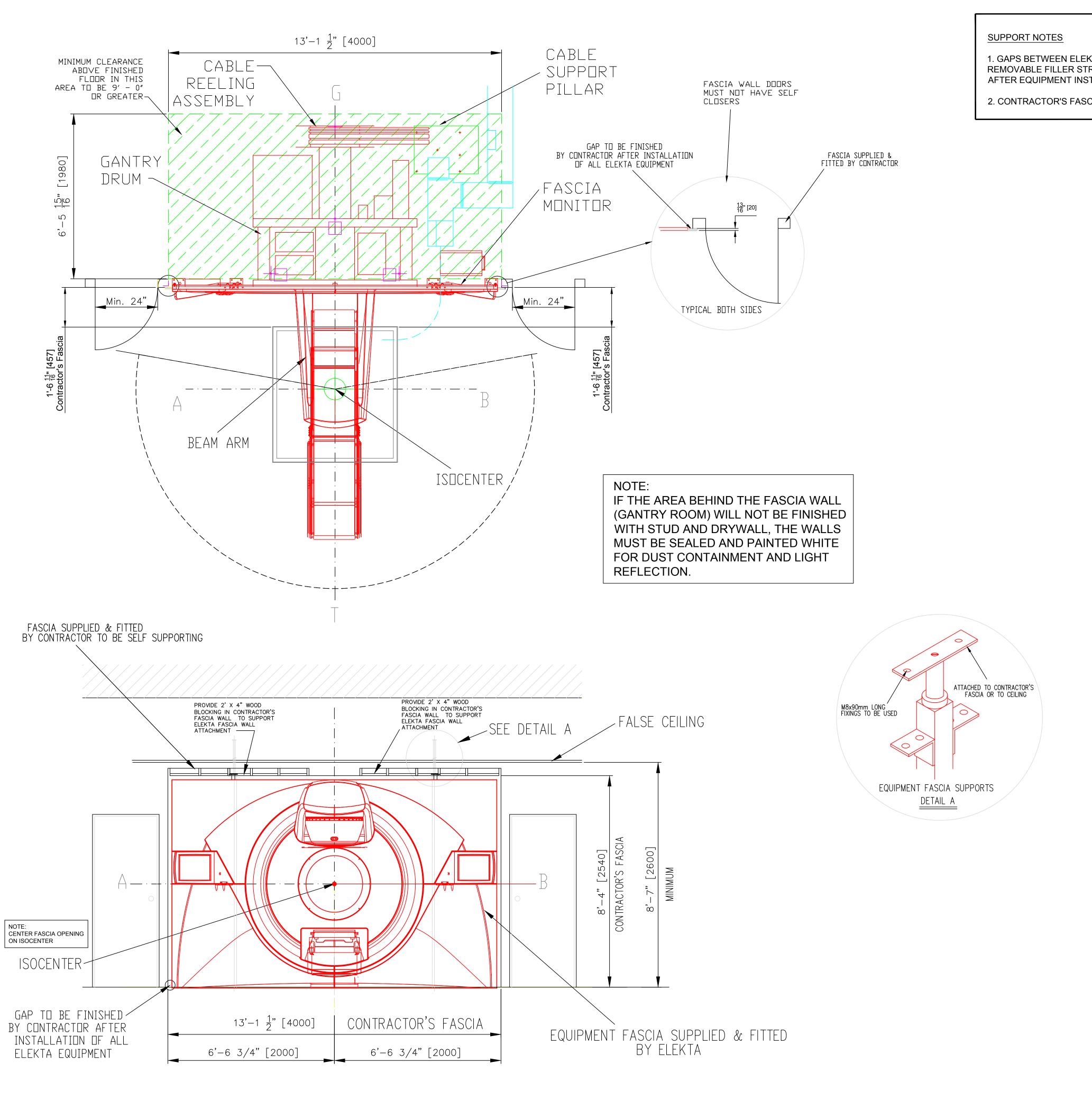
PROJECT NUMBER QUOTATION NUMBER

QUOTATION DATE

CUSTOMER APPROVAL ELEKTA APPROVAL

S2 INFINITY Ref Dwg Pit Details January 9, 2017 Scale 1/2" = 1'-0"

(Sheet 12 of 20)



1. GAPS BETWEEN ELEKTA AND CONTRACTOR'S FASCIA TO BE CLOSED WITH REMOVABLE FILLER STRIP, SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR AFTER EQUIPMENT INSTALLATION.

2. CONTRACTOR'S FASCIA IS TO BE SELF-SUPPORTING.



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INFINITY DELIVERY SYSTEM

REFERENCE DRAWING

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Checked By	
Preliminary Complete:	

PROJECT NUMBER

QUOTATION NUMBER

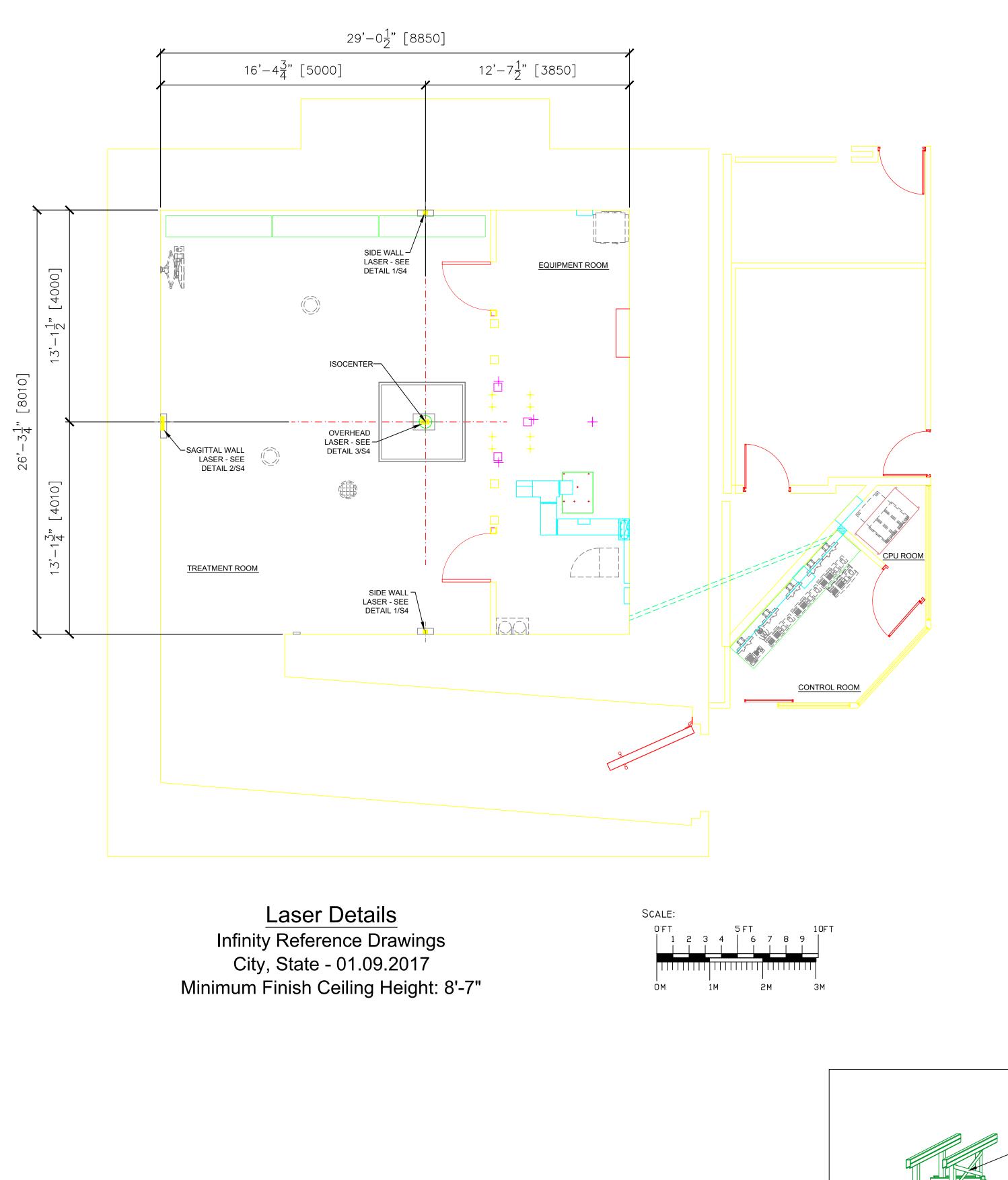
QUOTATION DATE

CUSTOMER APPROVAL

ELEKTA APPROVAL

DATE

Project	Sheet
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January 9, 2017	Fascia Wall Details
Scale NONE	(Sheet 13 of 20)





<u>LASERS</u>

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

<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.

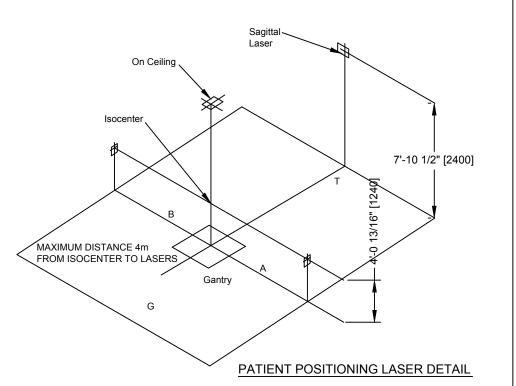
IT IS ALSO ADVISABLE TO RECESS THE LASERS TO PREVENT MISALIGNMENT FROM "KNOCKS OR BUMPS" FROM PERSONNEL TRAFFIC, ETC. THERE ARE SEVERAL WAYS TO ACHIEVE A RECESS:

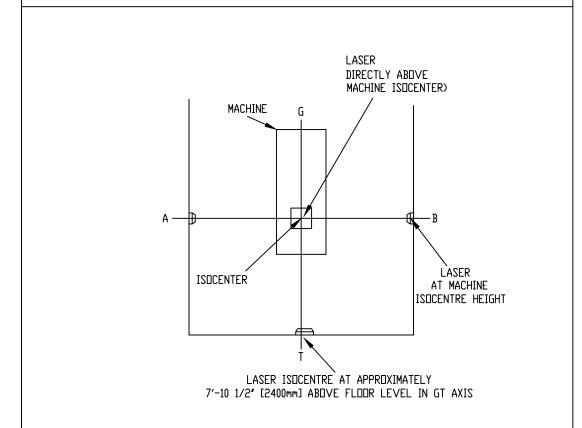
1 - PROVIDE A 5" FURRED WALL FROM CONCRETE STRUCTURE ACCOMMODATE THE LASER.

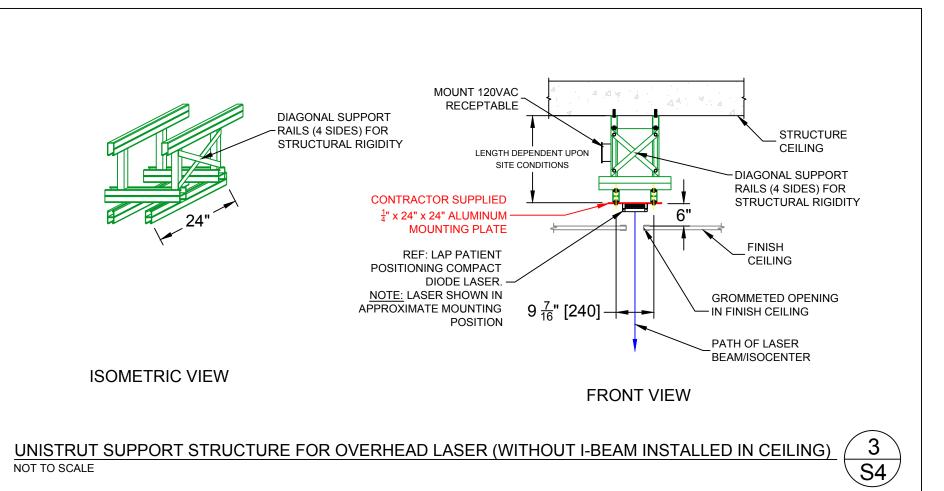
2 - PROVIDE A 5" DEPRESSION IN THE CONCRETE WALL TO ACCOMMODATE THE LASER. IF THIS METHOD IS USED, THE RADIATION PHYSICIST OF RECORD MUST BE CONSULTED TO ENSURE THAT THE SHIELDING INTEGRITY IS NOT DIMINISHED.

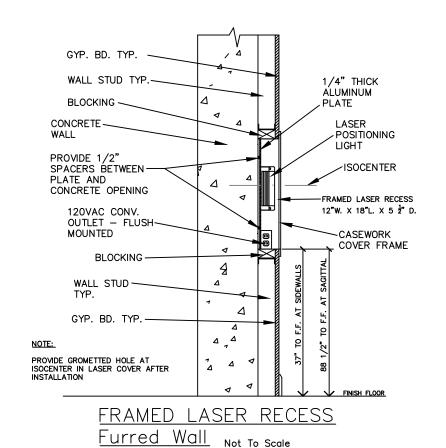
THE RECESS CAN BE FINISHED USING A HINGED DOOR WITH A GROMMETTED HOLE FOR THE LASER BEAM, SO AS TO RETAIN ROOM AESTHETICS.

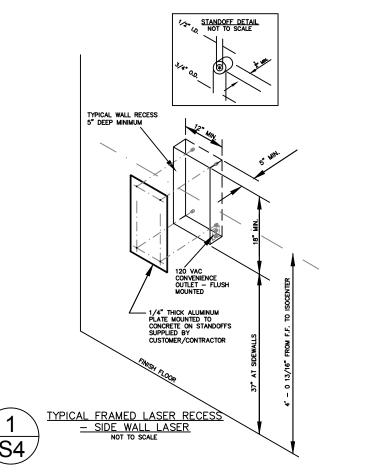
THE CEILING LASER MAY BE MOUNTED DIRECTLY TO THE STRUCTURE AND A GROMMETTED HOLE BE PROVIDED IN THE CEILING TILE OR, ALTERNATIVELY A BRACKET COULD BE CONSTRUCTED SO THAT THE LASER IS MOUNTED AT THE LEVEL OF THE CEILING TILE BUT THE LOADS ARE TRANSFERRED TO THE STRUCTURE.

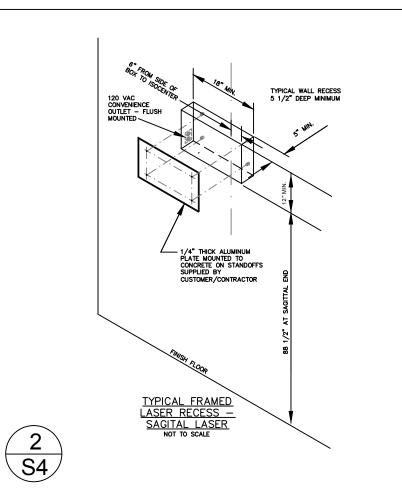


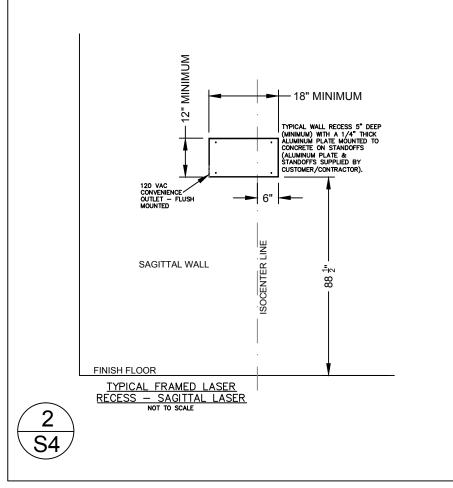














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SUITE 50
ATLANTA, GEORGIA 30346
Tel. (770) 300-9725
Fax (770) 729-1585
www.elekta.com

Project Name and Address

INFINITY DELIVERY SYSTEM

REFERENCE DRAWING

No. Revision/Issue Date

Drawn By

Checked By

Preliminary Complete:

PROJECT NUMBER

QUOTATION NUMBER

QUOTATION DATE

CUSTOMER APPROVAL

CUSTOMER APPROVAL

ELEKTA APPROVAL

DATE

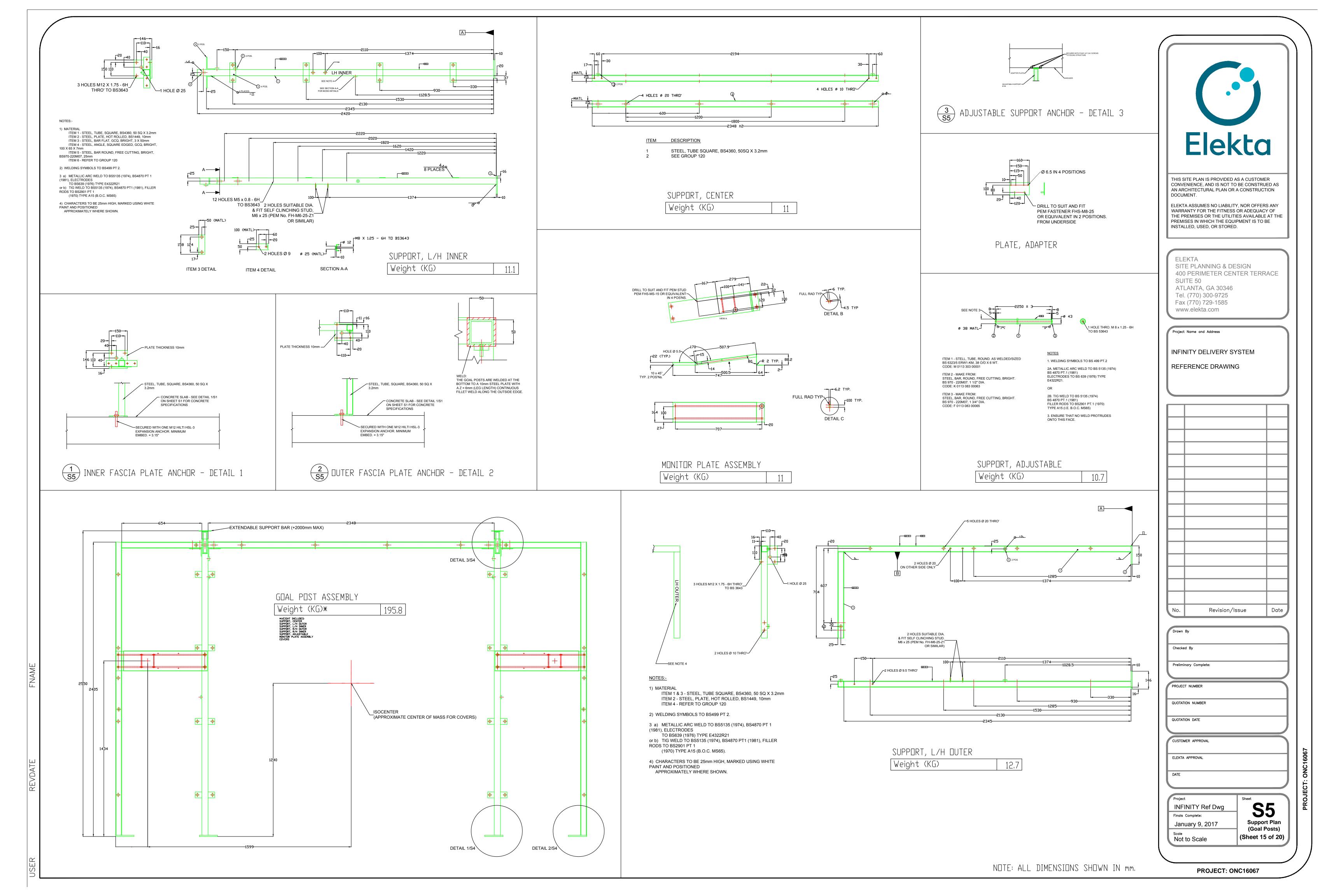
Project
INFINITY Ref Dwg
Finals Complete:
January 9, 2017

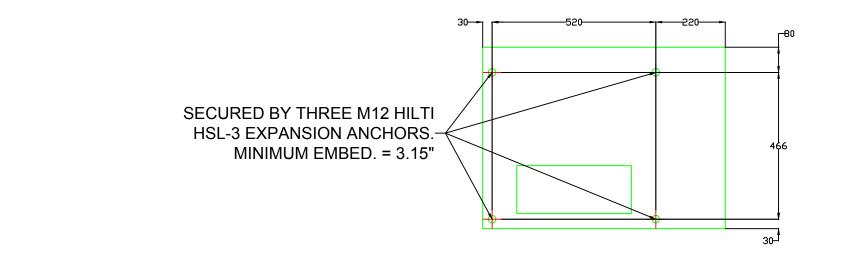
Scale
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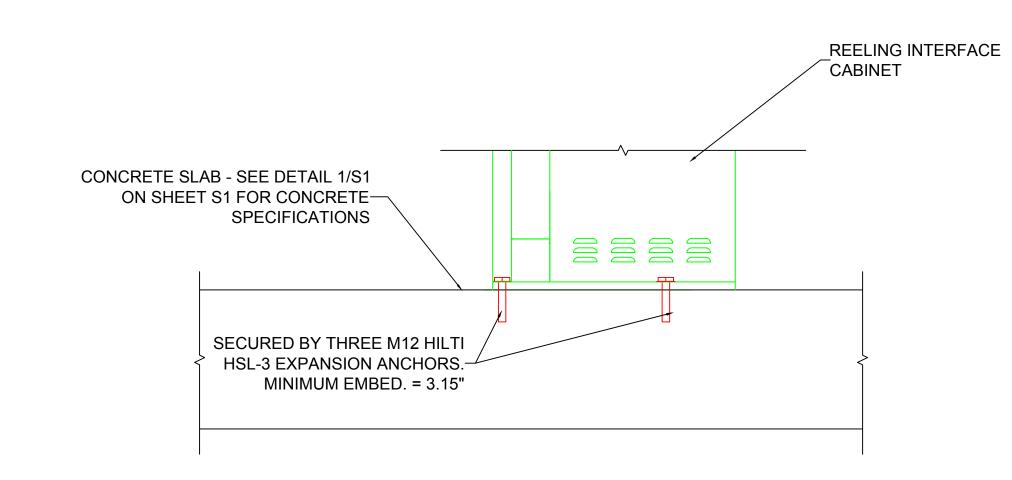
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Laser Details

(Sheet 14 of 20)

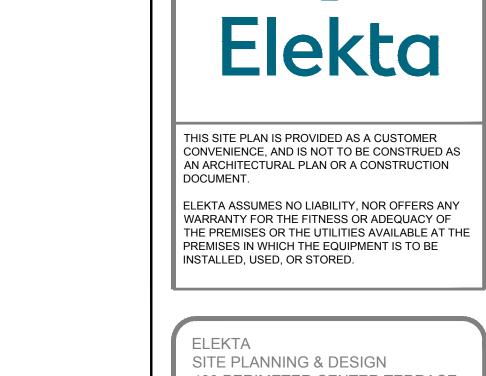






REELING POST PLATE ANCHOR - DETAIL 1

NOTE: ALL DIMENSIONS SHOWN IN mm.



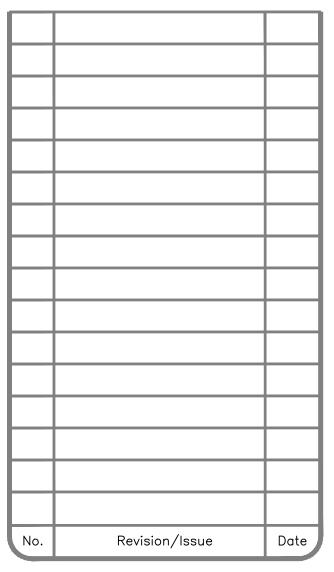
ELEKTA SITE PLANNING & DESIGN 400 PERIMETER CENTER TERRACE SUITE 50 ATLANTA, GA 30346 Tel. (770) 300-9725 Fax (770) 729-1585 www.elekta.com

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Project Name and Address



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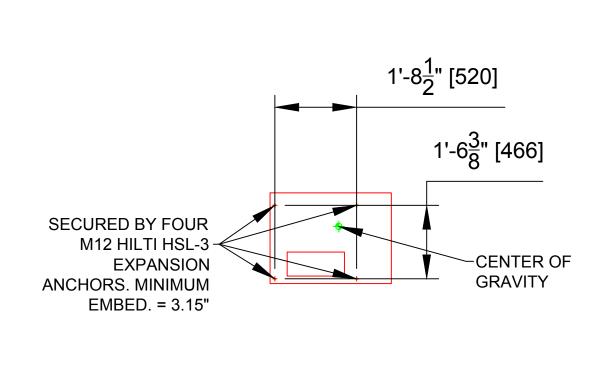
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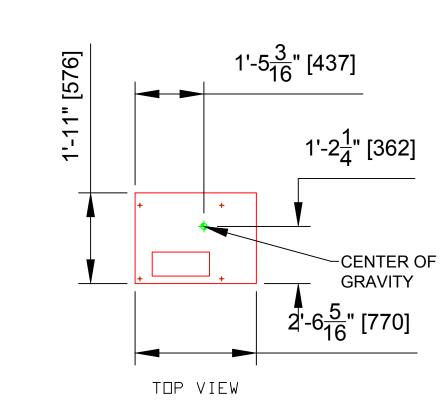
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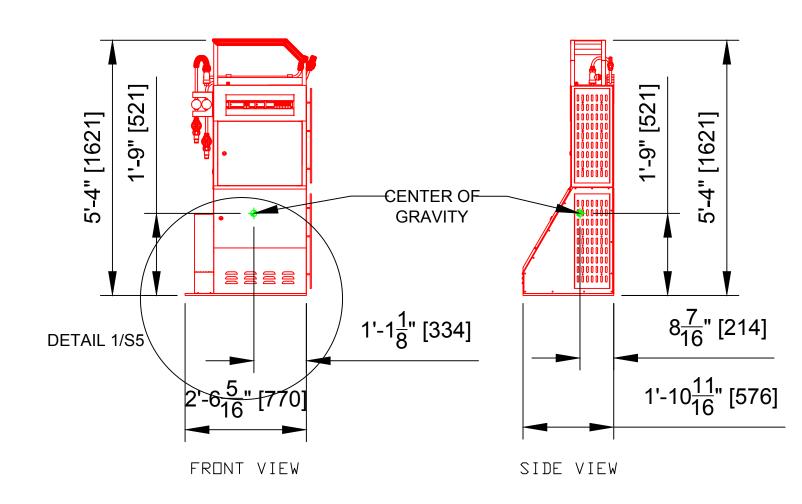
CUSTOMER APPROVAL

S6 INFINITY Ref Dwg Support Plan (C Plate/Reeling Post) January 9, 2017 (Sheet 16 of 20) Not to Scale

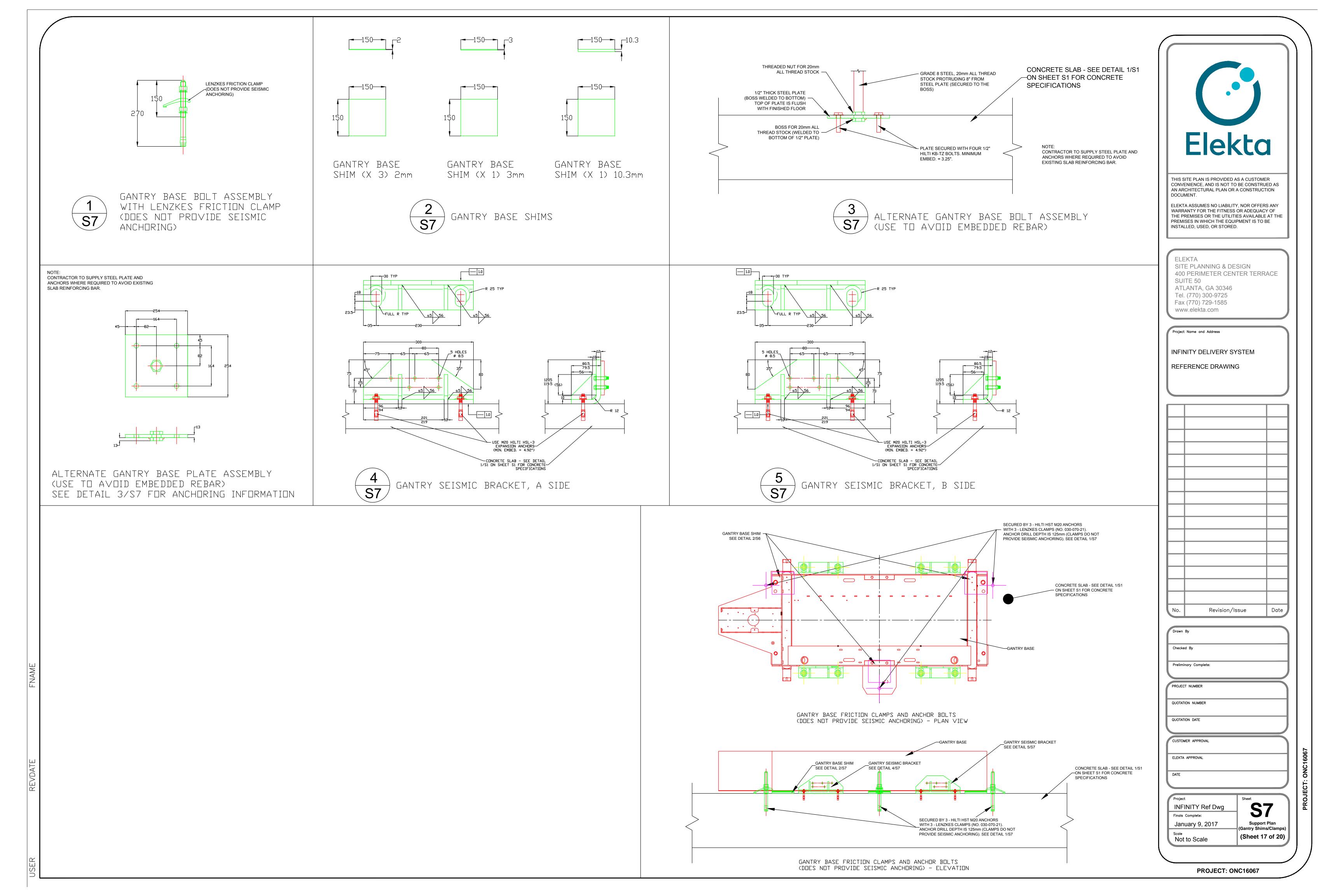
PROJECT: ONC16067

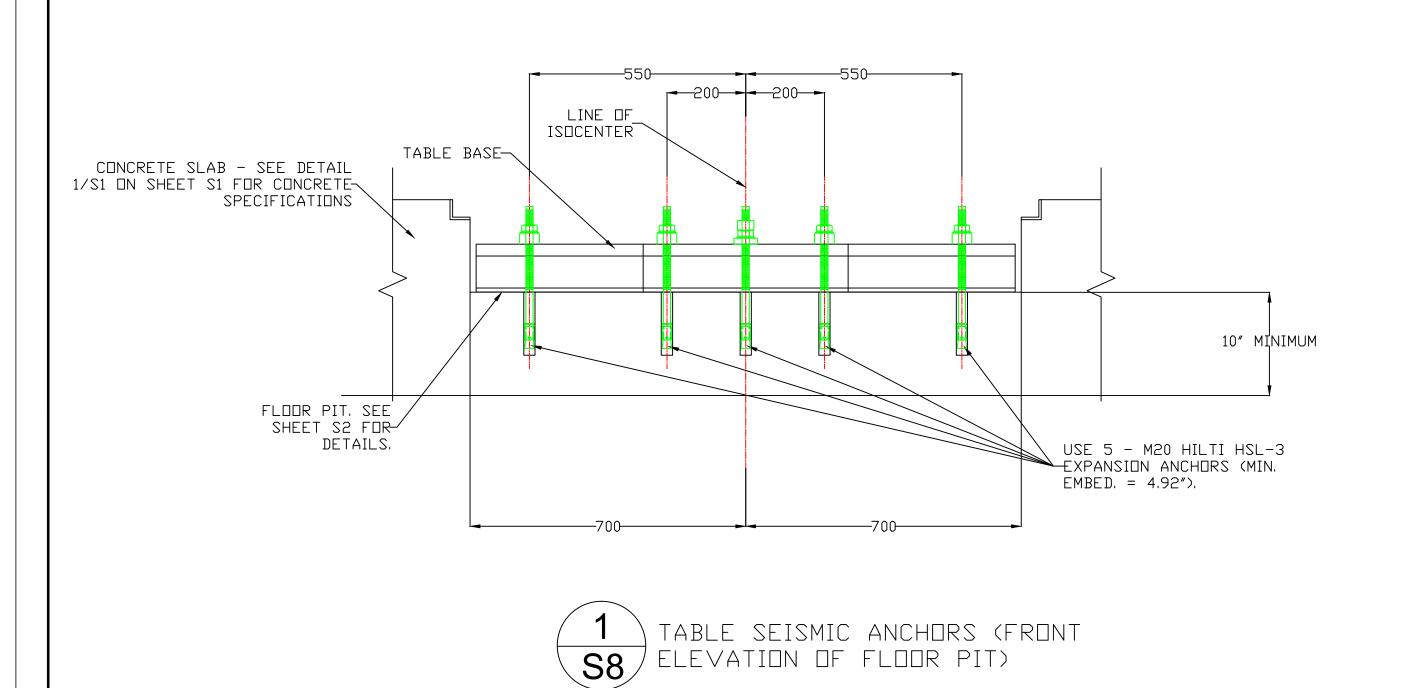


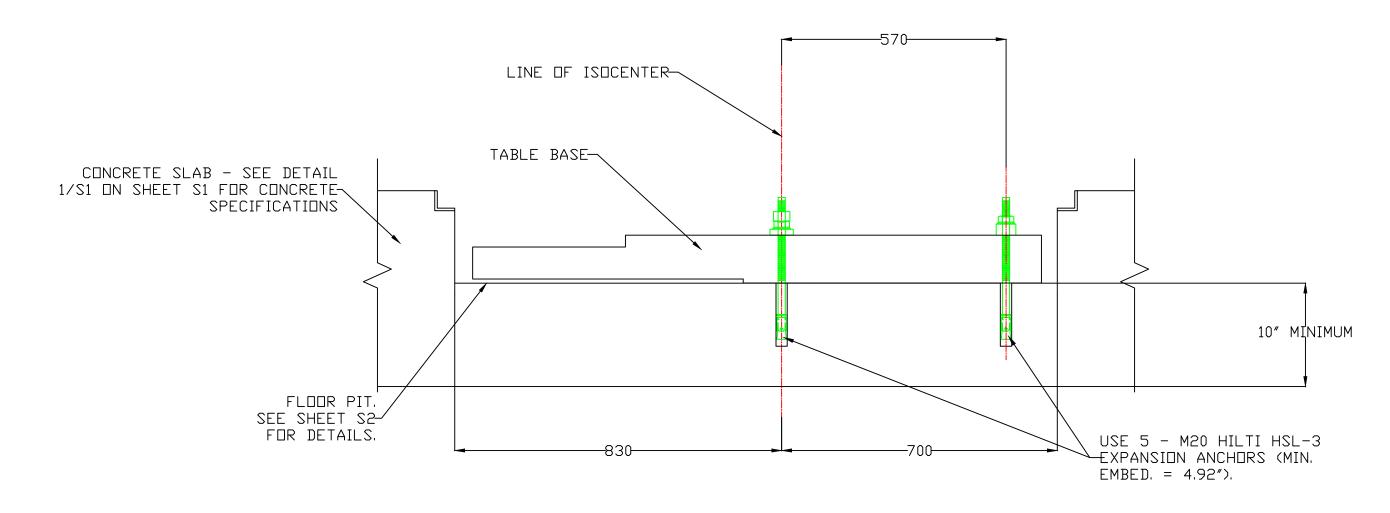




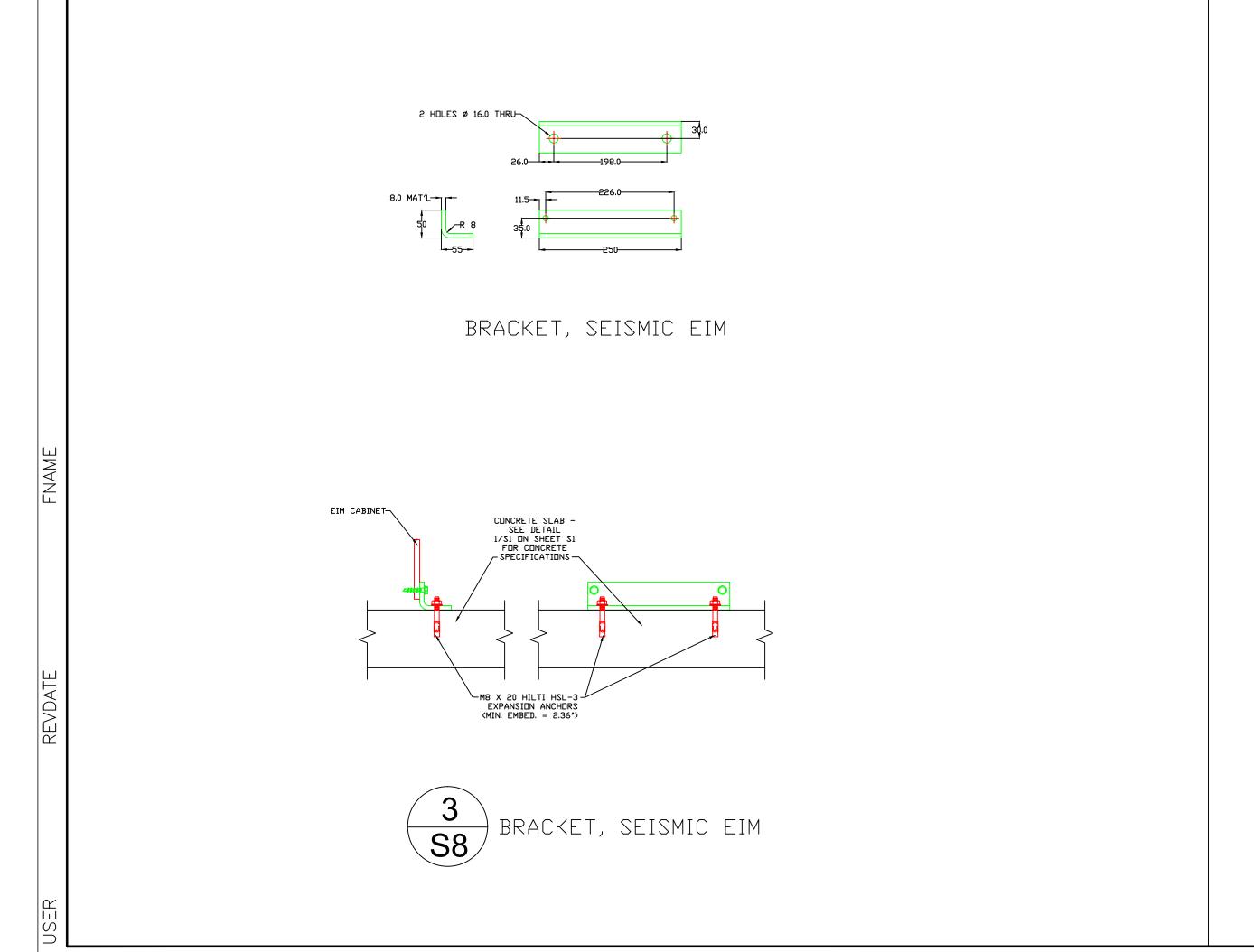
REELING POST/INTERFACE CABINET ANCHOR - DETAIL 1 392 Weight (lbs)







2 TABLE SEISMIC ANCHORS (SIDE S8 ELEVATION OF FLOOR PIT)



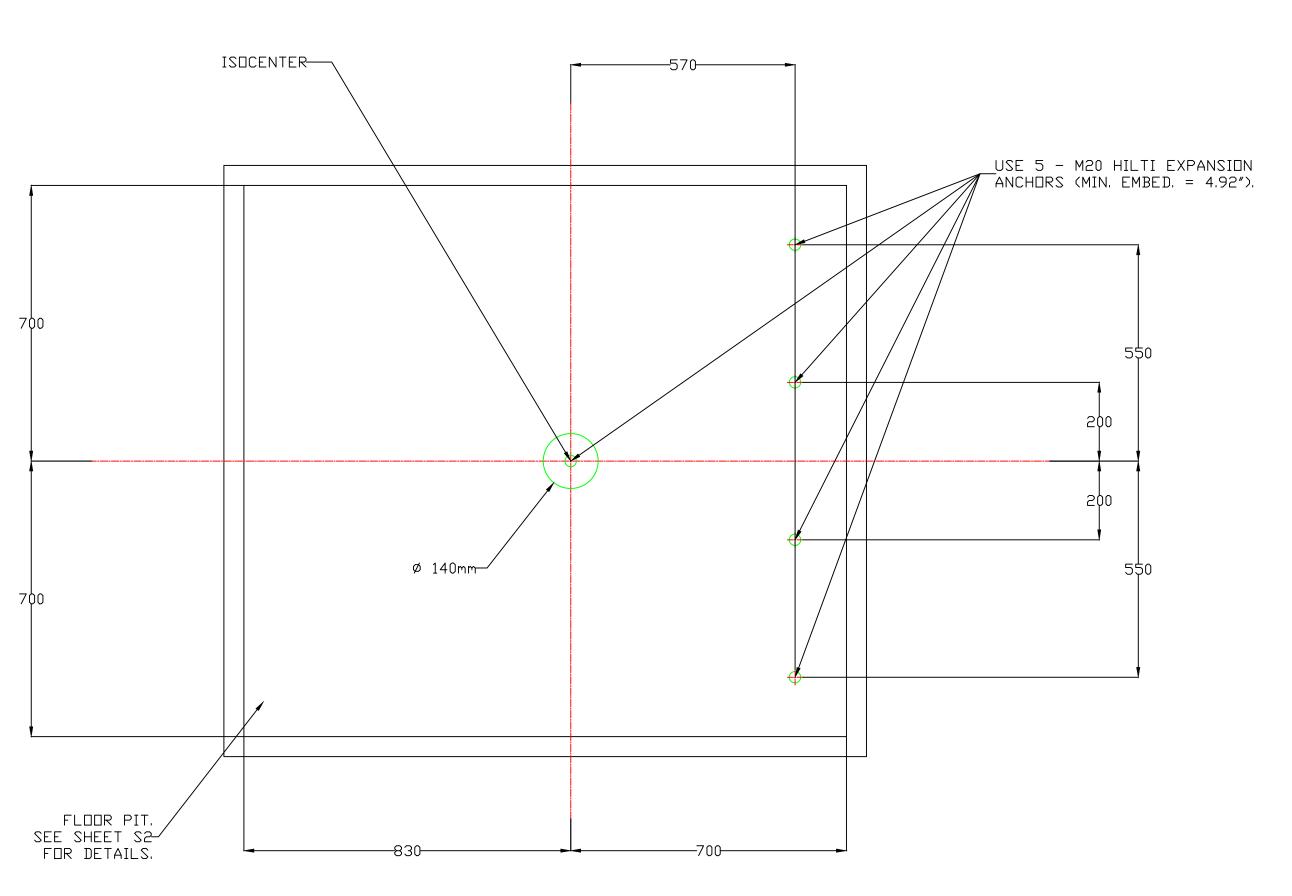


TABLE SEISMIC ANCHORS



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INFINITY DELIVERY SYSTEM

REFERENCE DRAWING

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No.	Revision/Issue	Date

Drawn By

Checked By

Preliminary Complete:

PROJECT NUMBER

QUOTATION NUMBER

QUOTATION DATE

CUSTOMER APPROVAL

ELEKTA APPROVAL

DATE

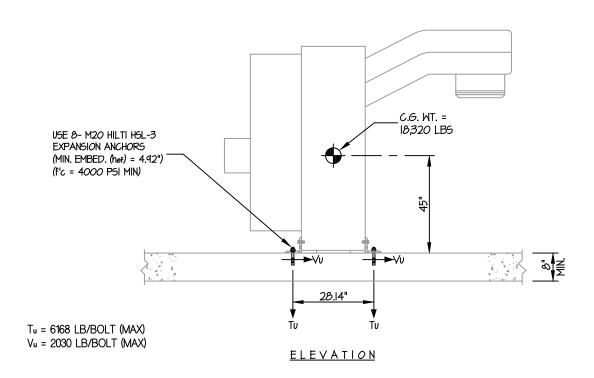
INFINITY Ref Dwg

Finals Complete:

January 9, 2017

Scale
1/4" = 1'-0"

Support Plan
(Table/EIM Anchor)
(Sheet 18 of 20)



NOTES:

1. ANCHORAGE DESIGN PER 2010 CALIFORNIA BUILDING CODE AND ASCE 7-05 STRENGTH DESIGN IS USED.

HORIZONTAL FORCE (Eh) = 0.70 Wp (SDS = 1.55, Δp = 1.0, |p = 1.5, Rp = 1.5, z/h = 0.0) VERTICAL FORCE (Ev) = 0.31 Wp

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHT AND FORCES

SUPPORT STRUCTURE DESIGNED TO SUPPORT WE SHOWN, IN ADDITION TO ALL OTHER LOADS.



SLAB ON GRADE

BOLT SPEC: M-20 HILTI HSL-3

EXPANSION ANCHORS

◆T= 6502 LB/BOLT

♦V= 8148 LB/BOLT

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING						
ELEKTA, INC.	DES. J. ROBERSON			SHEET 2		
SYNERGY DELIVERY SYSTEM	JOB NO.	11-1324			•	
- GANTRY -	DATE	5/3/13	OF	2	SHEETS	

<u>5DS ≤ 1.55</u>

20.0T"

20.0T"

20.0T"

C.G. WT. = 18,320 LB (Y = 45")

X

PRE-MANUFACTURED MOUNTING ASSEMBLY TYP

Z

WE 8- M20 HILTI HSL-3

EXPANSION ANCHORS

(MIN. EMBED. (het) = 4,92")

(Fc = 4000 PSI MIN)

<u>PLAN AT BASE</u>

LOADS: PER 2010 CALIFORNIA BUILDING CODE AND ASCE 7-05 (STRENGTH DESIGN IS USED) (SDS = 1.55, 2p = 1.0, p = 1.5, p

BOLT FORCES: TENSION (T)

SEISMIC ANCHORAGE

 $T_{\text{U MAXIMUM}} = \left[\frac{12824\#(45'')}{4 \text{ BOLTS } (31.09'')} \times (0.3) \right] + \frac{12824\#(45'')(19.68'')}{2 \text{ BOLTS } (28.14'')(31.09'')} - \frac{(18320\#(0.9) - 5679\#)(19.8'')}{4 \text{ BOLTS } (31.09'')} = 6168 \text{ LB/BOLT } (\text{MAX})$ $(\text{HORIZ - SIDE TO SIDE}) \qquad (\text{HORIZ - FRONT TO BACK}) \qquad (\text{WESH-T (0.9) - 6.5})$

SHEAR (V) $V_{U \text{ MAXIMUM}} = \frac{12824\#(19.68")}{4 \text{ BOLTS (31.09")}} = 2030 \text{ LB/BOLT (MAX)}$ ELEKTA ONCOLOGY SYSTEMS

PRECISE TABLE

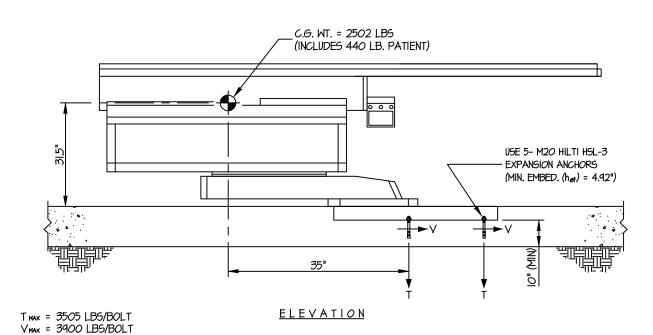
SEISMIC ENGINEERING

DES. R. LA BRIE

JOB NO. 11-0860

DATE 6/24/08

OF 2 SHEETS

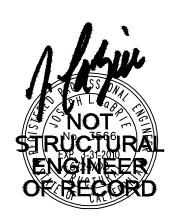


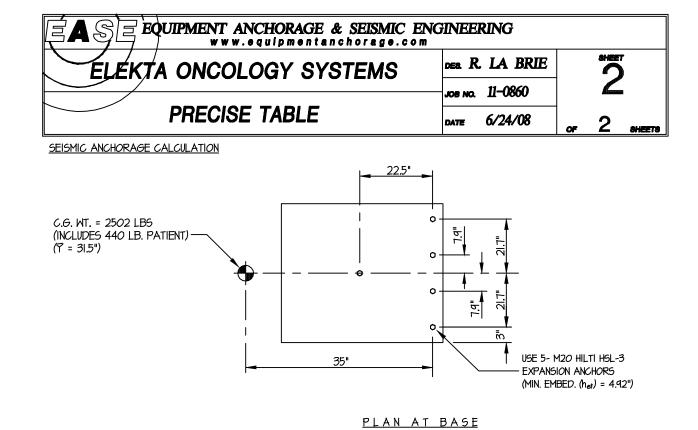
NOTES: 1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED. HORIZONTAL FORCE (E_h) = 0.61 W_p (S_{DS} = 193, a_p = 10, I_p = 1.5, R_p = 2.5)

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.

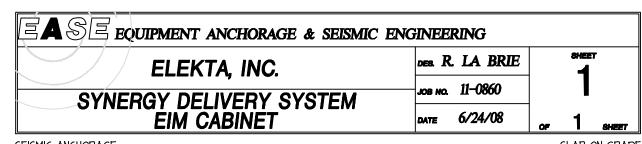
VERTICAL FORCE $(E_v) = 0.27 W_p$

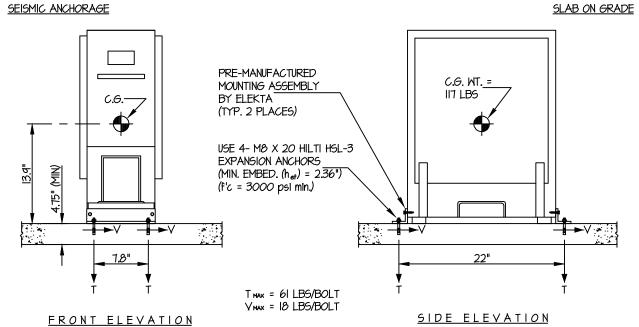




 $\begin{aligned} &\text{LOADS:}\\ &\text{WEIGHT} = 2502 \text{ LBS (INCLUDES 440 LB. PATIENT)}\\ &\text{HORIZONTAL FORCE } (E_h) = 1526 \text{ LBS}\\ &\text{VERTICAL FORCE } (E_{V}) = 676 \text{ LBS}\\ &\frac{\text{BOLT FORCES:}}{\text{TENSION (T)}}\\ &\text{T_{MAXIMUM}} = \left[\frac{1526\#(315")}{225"}\times(0.3)\right] + \frac{1526\#(315")(57.5")}{24.7"(22.5")} - \frac{(2502\#(0.6) - 676\#)(57.5")}{22.5"} = 3505 \text{ L}\\ &\text{(WBGHT (MG)-E_{V})} \end{aligned}$

 $V_{MAXMUM} = \frac{1526\#(57.5')}{22.5''} = 3900 LBS/BOLT (MAX)$





<u>LOADS:</u> PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. WEIGHT = 117 LBS HORIZONTAL FORCE (E_h) = 0.61 W_p = 71 LBS VERTICAL FORCE (E_h) = 0.27 W_p = 32 LBS

BOLT FORCES:

TENSION (T)

 $T_{\text{MAXIMUM}} = \left[\frac{71\#(13.93'')}{2\text{Bolts}(22'')} \times (0.3) \right] + \frac{71\#(13.93'')}{2\text{Bolts}(7.8'')} - \frac{117\#(0.6) - 32\#}{4\text{ Bolts}} = 61 \text{ LBS/BOLT (MAX)}$ $(\text{HORIZ - FRONT TO BACK}) \qquad (\text{HORIZ - SDE TO SIDE}) \qquad (\text{WEIGHT (0.6) - e_v})$

SHEAR (V)

 $V_{MAXIMUM} = \frac{71\#}{4 \text{ BOLTS}} = 18 \text{ LBS/BOLT (MAX)}$

NOTE:
ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



NOTE:
PLEASE REFER TO THE FOLLOWING ICC ES
REPORTS FOR ANCHOR & ADHESIVE DETAILS:
- ESR-1545
- ESR-1967

- ESR-2262 - ESR-3187

TIGHTENING TORQUES			
ITEM	FIXINGS	TORQUE (Nm)	HEAD TYPE
JOCKEY WHEELS	3 x M30	150	46mm A/F CUTDOWN
COUNTER BALANCE FRAME	6 x M20	400	
ARM ASSEMBLY	2 x M20 x 90mm 2 x M20 x 100mm 2 x M20 x 110mm	350	30mm A/F
COMPLETE WEIGHT SET	4 x M20 BINX NUTS	220	30mm A/F
MODULATOR ASSEMBLY	4 x M20 HEX x 40mm	150	30mm A/F
STEEL TRIM WEIGHTS	22 x M20 PLAIN NUTS	220	30mm A/F
TABLE PRE STRESS	5 x 28mm	250	
TABLE FINAL TOP NUTS	5 x 28mm	160	
GANTRY BASE	3 x 20mm	240	30mm A/F

DRILLING SIZE & DEPTH		
HOLE	HOLE DEPTH	HOLE DIAMETER (Ø)
4 x REAR MOUNTINGS	160mm	28mm
5 x ROTATING FLOOR ANCHORS	130mm	22mm
	1 x CENTER MOUNTING:	
CURRENT PIT	160mm	28mm
SL75/5 - PEDESTAL UPGRADE	170mm	28mm
SL/PEDESTAL UPGRADE	185mm	28mm



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400 PERIMETER CENTER TERRACE
SUITE 50
ATLANTA, GA 30346
Tel. (770) 300-9725
Fax (770) 729-1585
www.elekta.com

INFINITY DELIVERY SYSTEM

Project Name and Address

REFERENCE DRAWING

_		
\vdash		
\vdash		
No.	Revision/Issue	Date

	C. Wiley
Checked By	
	J. Blackwell
Preliminary	Complete:
	December 5, 2016

ONC16067

QUOTATION NUMBER

2015-117101-CS V.3

QUOTATION DATE

December 17, 2015

CUSTOMER APPROVAL

ELEKTA APPROVAL

Project	Sheet
INFINITY Ref Dwg	- S9
Finals Complete:	7 33
January 9, 2017	Support Plan (Seismic Calculations)
Scale Not to Scale	(Sheet 19 of 20)

PROJECT: ONC16067

SEVINATE

(

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

ELEKTA, INC.

DES. R. LA BRIE

JOB NO. 11-0913

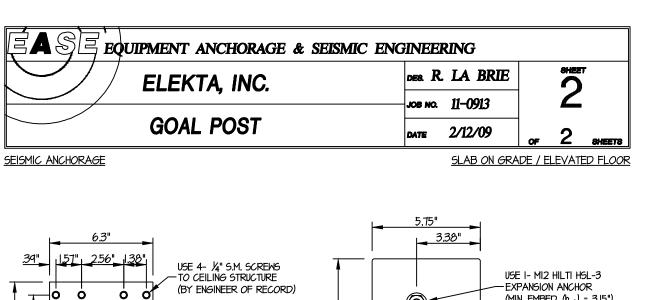
ASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

JOB NO. 11-1209

DATE 2/15/09

ELEKTA, INC.

REELING POST/INTERFACE CABINET



SECTION "A-A"

PLANATCEILING

138"

USE 4- ¼" S.M. SCREMS
TO CEILING STRUCTURE
(BY ENGINEER OF RECORD)

14 GA. MOUNTING BRACKET
(BY ELEKTA)

SECTION "A-A"
PLANATCEILING

SECTION "B-B"
PLANATFLOOR

LOADS: ASSUME 50% OF TOTAL WEIGHT ISTRIBUTARY TO EACH POST.

= 207(0.5) = 104 LBS.

WEIGHT = 104 LBS

HORIZONTAL FORCE (E_{tr}) = 101 LBS.

VERTICAL FORCE (E_{v}) = 28 LBS.

SCREW/BOLT FORCES:

 $V_{TOP} = \frac{(104# + 28#)(10") + 101#(60")}{4screws (96")} = 19 LBS/SCREW (MAX)$

 $V_{TOP} = \frac{(104 + 28 +)(10') + 101 + (66')}{4 \text{SCREW} (96'')} = 19 \text{ LBS/SCREW (MAX)}$ $V_{BOTTOM} = \frac{(104 + 28 +)(10') + 101 + (66'')}{1 \text{ BOLT (126'')}} = 66 \text{ LBS/BOLT (MAX)}$

NOTES:

1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED. HORIZONTAL FORCE (E_p) = 0.97 W_p (S_{DS} = 1.93, a _p= 1.0, I _p= 1.5, R _p= 2.5) VERTICAL FORCE (E_v) = 0.27 W_p

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES

ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

NOTE:
STRUCTURAL ENGINEER C

WHERE 6-1/4" DOES NOT OCCUR

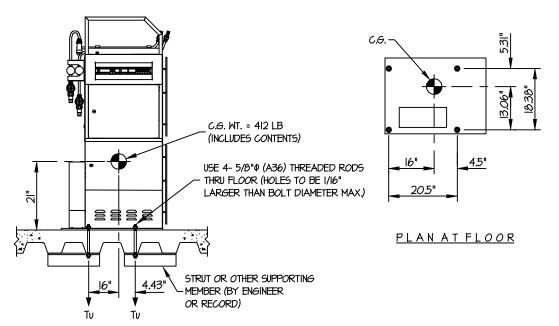
PROVIDE I- ½" (A301) BOLT THRU FLOOR TO STRUT OR

MEMBER (BY ENGINEER OF

AT ELEVATED FLOOR

OTHER SUPPORTING

RECORD) (4 PLACES)



<u>LOADS</u>: PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. WEIGHT = 412 LB HORIZONTAL FORCE (E_p) = 1.44 W_p = 593 LB VERTICAL FORCE (E_v) = 0.44 W_p = 165 LB BOLT FORCES: TENSION (T)

 $T_{\text{U}} \text{ MAXIMUM} = \left[\frac{593\#(21'')(13.06'')}{1 \text{ BOLTS } (20.5'')(18.37'')} \times (0.3) \right] + \frac{593\#(21'')(16'')}{1 \text{ BOLT } 18.37''(20.5'')} - \frac{(412\#(0.9) - 165\#)(16'')(13.06'')}{1 \text{ BOLTS } (20.5'')(18.37'')} = 545 \text{ LB/BOLT } (\text{MAX})$

SHEAR (V) $V_{\text{U}} \text{ MAXIMUM} = \frac{593\#(16'')}{2 \text{ BOLTS }(205'')} = 232 \text{ LB/BOLT (MAX)} \text{ (PER AISC J3.7, LESS THAN 20% STRESS)}$

NOTE: STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.

<u>FRONT ELEVATION</u>

Seismic Calculations

TEAL Electronics Model PCDU-SLI

 $Fp = Z \times I \times (Cp) \times Wp = 0.45 \times Wp$

Z = 0.40 for Coastal California

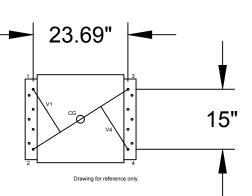
I = 1.5 for anchorage of equipment required for life safety systems

Cp = 0.75 (Uniform Building Code, Table 16O, May 1, 1994

Weight of Cabinet = 713 lbs. Center of Gravity Height = 16.65 in.

Wp = (713 x 1.15) maximum: (713 x 0.85) minimum, with 0.15 W vertical force
Wp = 820 lbs. maximum, 606 lbs. minimum

 $F_p = 0.45 \text{ x Wp} = 369 \text{ lbs. maximum}$



Distance from 2 to 3 (corner to corner) = 27.8 in.

 $V_1 = V_4 = 13.00 \text{ in.}$

 $M\circ$ = 369 lbs. x 16.65 in. (Center of Gravity height) $M\circ$ = 6, 143 in. lbs.

Tension = (606 lbs./4) - ((6, 143 in. lbs.)/(2 x 13.00 in.))

T = -85 lbs., each anchor

Shear = (369 lbs./4) S = 92 lbs., each anchor

Example: Anchor Bolt Specifications Example:

3/8" Hilti Kwik Bolts II embedded 2-1/2" minimum fc = 2000 psi minimum Title 24: 80% ICBO #4627, May 1991

Tension Rating of Bolt: 900 lbs.

Shear Rating of Bolt: 880 lbs.

Interaction

Verification that interaction is under anchor ratings: Interaction < 1.00 within specifications

Interaction = (T/T_{bolt}) + (S/S_{bolt}) = (85/900) + (92/880) = **0.20** < **1.00**



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ELEKTA SITE PLAN

SITE PLANNING & DESIGN 400 PERIMETER CENTER TERRACE SUITE 50

ATLANTA, GA 30346 Tel. (770) 300-9725 Fax (770) 729-1585 www.elekta.com

Project Name and Address

INFINITY DELIVERY SYSTEM

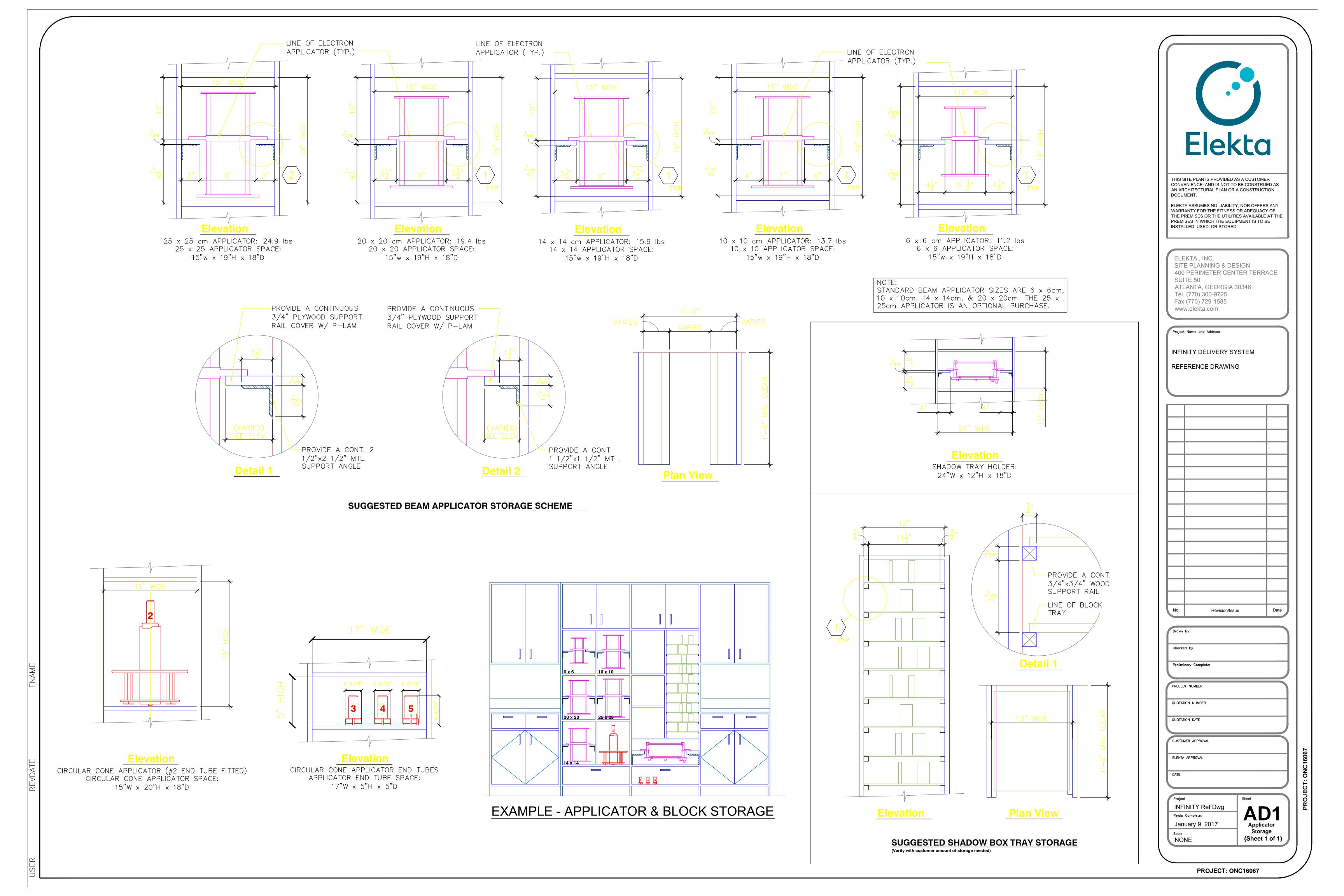
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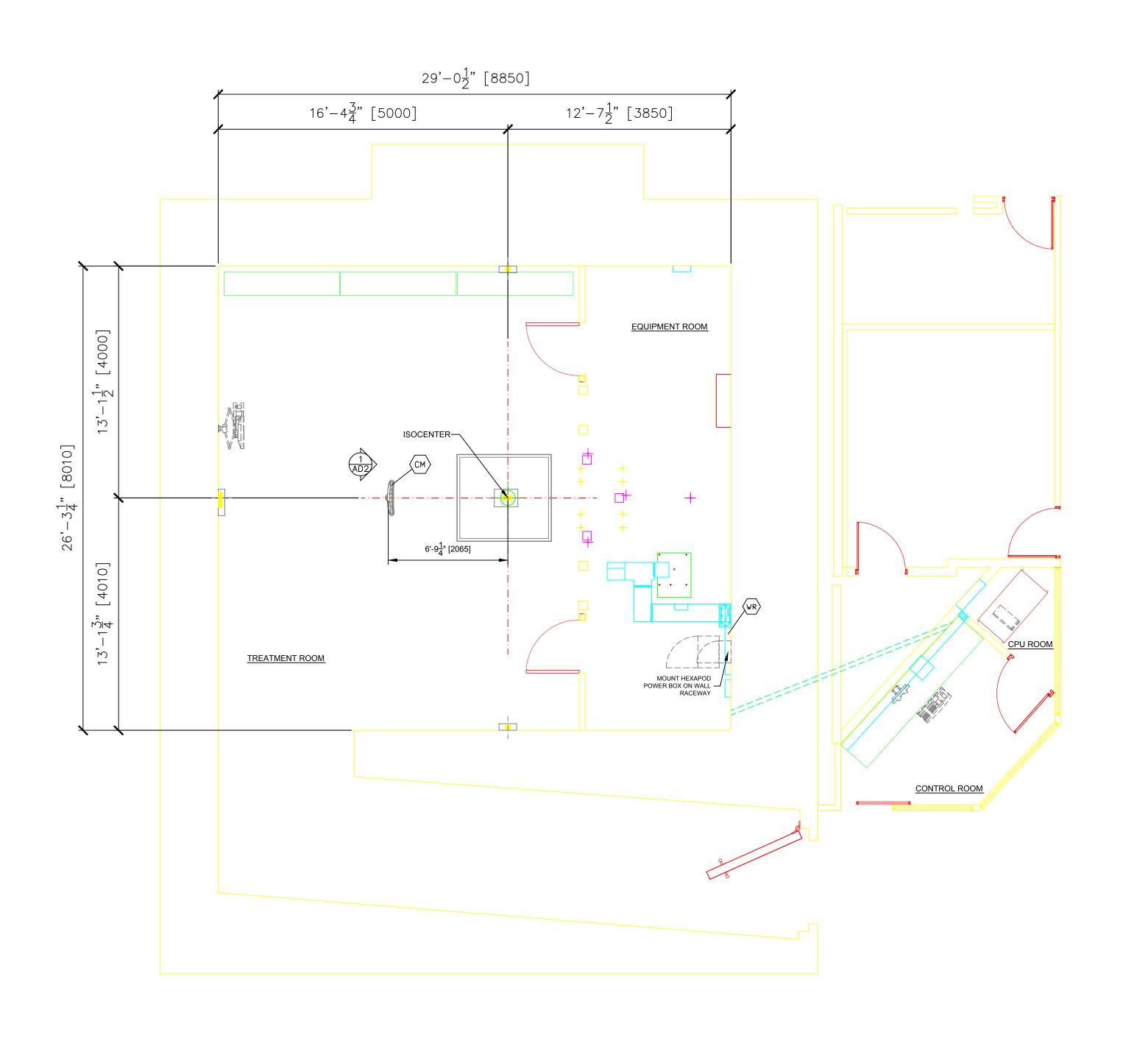
No. Revision/Issue Date

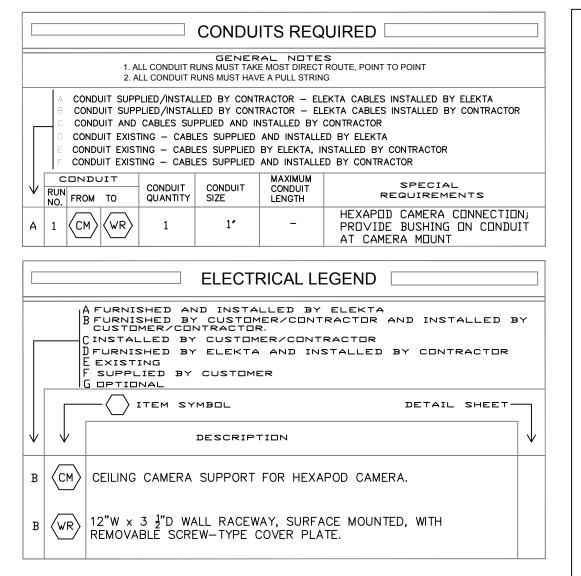
Drawn By	
Checked By	
Preliminary Complete:	
PROJECT NUMBER	
QUOTATION NUMBER	
QUOTATION NUMBER QUOTATION DATE	

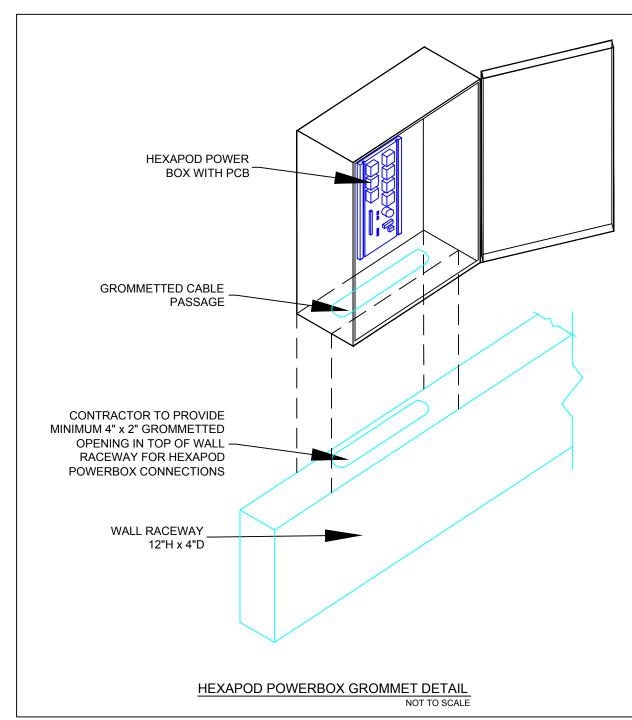
ELEKTA APPROVAL

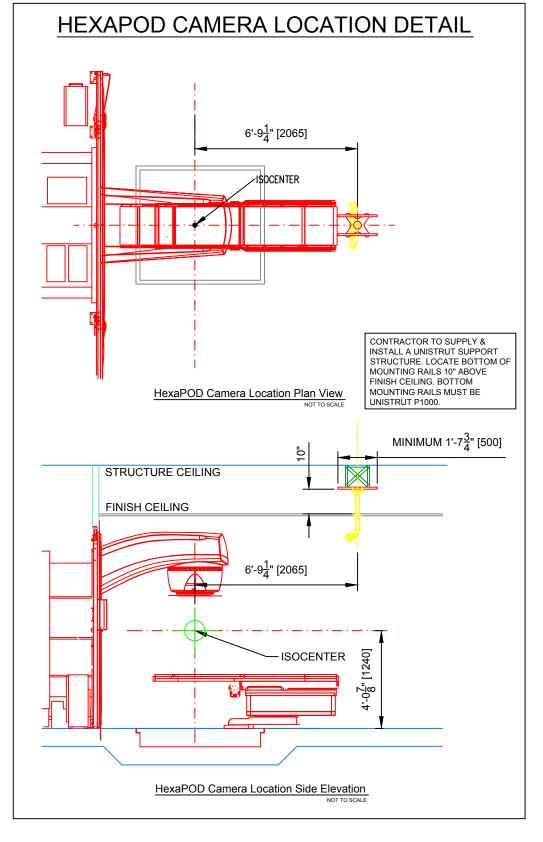
Project
INFINITY Ref Dwg
Finals Complete:
January 9, 2017
Scale
Not to Scale
(Sheet 20 of 20)

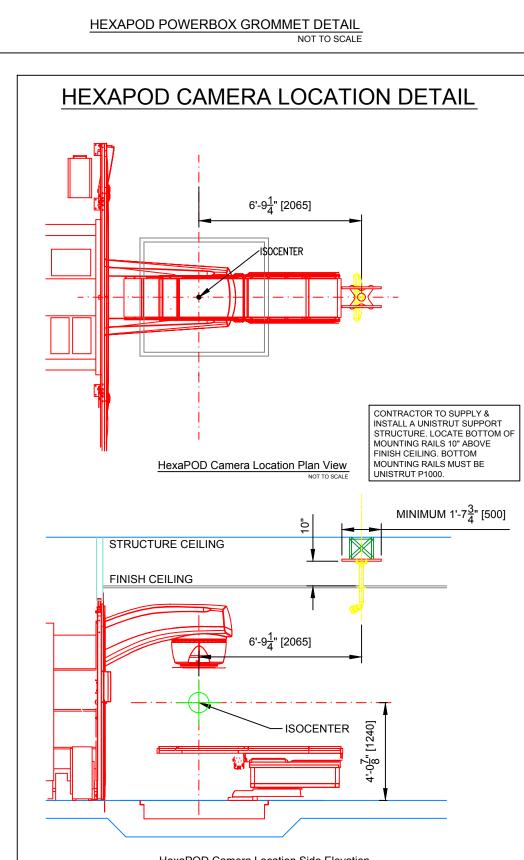


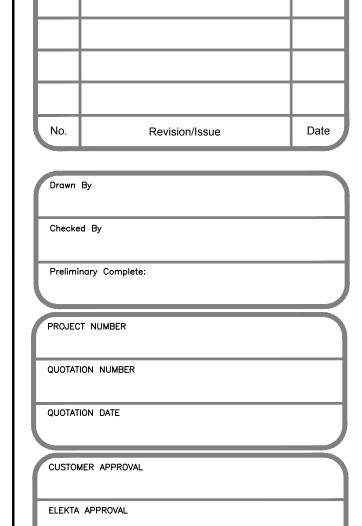












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400 PERIMETER CENTER TERRACE

WARRANTY FOR THE FITNESS OR ADEQUACY OF

INSTALLED, USED, OR STORED.

SITE PLANNING & DESIGN

ATLANTA, GEORGIA 30346

INFINITY DELIVERY SYSTEM

REFERENCE DRAWING

ELEKTA, INC.

Tel. (770) 300-9725

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Project Name and Address

SUITE 50

AD2
Hexapod INFINITY Ref Dwg January 9, 2017 Requirements As Shown (Sheet 1 of 1)

Electrical Plan - Hexapod

Infinity Reference Drawings City, State - 01.09.2017 Minimum Finish Ceiling Height: 8'-7"

