

VARIAN

medical systems



INSTALLATION DATA PACKAGE

*Optical Guidance Platform Section
General and Equipment Information*

*"Optical Guidance Platform, Fast Plan, FrameArray FramelessArray
and BodyArray" are trade names for Varian Medical Systems*

*English Version
April 2007*

Printed Installation Data Package or Digital Installation Data Package (Adobe® Acrobat .PDF format)

The Varian Installation Data Package (IDP) consists of several sections. Each section contains detailed information about Varian equipment as listed below:

Section 1 Clinac 2100C(/D), 2300C/D, 21EX, 23EX, iX, Trilogy Equipment Information and General Information

Section 2 Clinac 600C(/D), 4EX, 6EX Equipment Information and General Information

Section 3 Acuity Simulator Equipment Information and General Information

Section 4 VariSource Equipment Information and General Information

Section 5 Treatment Planning -VARiS and Eclipse System Equipment Information and General Information

Section 7 Silhouette Edition Clinac/iX, Trilogy Equipment Information and General Information

Gating Section: Respiratory Patient Monitoring Gating Equipment Information and General Information including; Clinacs, Acuity, Ximatrons and CT Scanners. (Digital PDF file only)

Optical Guidance Platform Section: Optical Guidance Platform Equipment Information and General Information. (Digital PDF file only)

To obtain a printed copy of any of the Varian IDP's, contact the Varian Planning Department at the address below.

Digital Drawing Files

Available from the *Varian Web Page are Autocad .DWG and .DXF files for all sections of the IDP. These files contain the Printed IDP details that are most useful for incorporation into the Architect's contract documents. A Printed Installation Data Package or Digital Installation Data Package is required to use the Digital Drawing files.

Included in each self un-archiving file is the complete keynote database saved as a comma-delimited ASCII text file that can be inserted into most word processors, spreadsheets and databases. Each detail, as designated by a letter in the lower left corner, is saved in a separate file for easy insertion into the Architect's documents. A CAD file name can be found in the lower right corner of each detail. These files are provided by Varian to simplify the design and drafting process and must be modified by the Architect and Engineers to satisfy all site-specific conditions and regional regulations.

* Download Autocad DWG and DXF files from: <http://www.varian.com/onc/-support-architectural-support>

Limitation of Liability

Every effort has been made to keep these files consistent with the documents in the IDP. These files are provided "as is" without warranty of any kind, either express or implied. The Architects and Engineers of Record to reflect any and all site-specific conditions and regional regulatory agency requirements shall modify these files. Varian shall not be liable for the accuracy or completeness of the files, any documents that include portions of them or any damages, direct, indirect, incidental or consequential, including damages for any lost profits or project delays that result from the use of the files included herein.

Contact the Varian Planning Department if you have questions.

Varian Medical Systems
Planning Department
911 Hansen Way, Bldg. 3, M/S C-165, Palo Alto CA 94304-1028
Phone (800) 278-2747 (650) 424-5945 Fax (650) 424-6252

E-mail - planning@varian.com

*Download Autocad DWG and DXF files from: <http://www.varian.com/support-architectural-support>

**Varian Optical Guidance Platform
Equipment Information**

	Doc #	Page #
<u>Table of Contents</u>	200055.....	0.00.0
<u>Section Notes</u>	200056.....	0.01.0
<u>General Information</u>		
Introduction to the Installation Data Package (IDP)	1100501.....	0.01.1
<u>Drawings</u>		
Typical Clinac Treatment Room	200052.....	S.1.0
Clinac Interconnect Wiring	200053.....	S.2.0
Camera Mounting Detail	200054.....	S.3.0
Pre-Installation Checklist	200057.....	S.4.0.

Optical Guidance Platform System Section Notes

Information and Support

This section describes only information on specific equipment facility requirements for Varian *Optical Guidance Platform System*. For more information, contact your nearest regional support office or Varian's main Planning Department at:

Varian Oncology Systems Marketing
Planning Department
911 Hansen Way, Bldg. 3 M/S C-165
Palo Alto, CA 94304-1028
(800) 278-2747
(650) 424-5945
(650) 424-6252 Fax
<http://www.varian.com/support>

Varian/Customer Sales Contract specifics:

- Services supplied by Varian
- Computer hardware supplied by Varian
- Application Software version to be supplied by Varian
- *Optical Guidance Platform* interface to Clinac
- Special Terms or condition of sale
- Estimated ship date, and Shipping address

Equipment Information

To simplify the design process, we suggest that the Architect and Customer determine, as early as possible, all equipment configurations ordered or planned for the future.

Optical Guidance Platform may be connected to (please list all the machines in your department):

Clinac 2100C/D, 2300C/D S/N.....(yes/no)
Clinac 21/23 EX S/N..... (yes/no)
Clinac 600C/D, 6EX S/N (yes/no)
Clinac iX, Trilogy S/N..... (yes/no)

Optical Guidance Platform Modules:

SonArray..... (yes/no)
FrameArray..... (yes/no)
FramelessArray..... (yes/no)
BodyArray..... (yes/no)

Optical Guidance Platform overview

Varian's *Optical Guidance Platform* provides real-time 3-D target localization information for patient positioning using the infrared optical-guidance camera and a computer workstation. It works in conjunction with a number of modular application products to provide localization and fixation, in the course of radiotherapy or radiosurgery treatment sessions. These modules are *SonArray*, *Frameless Array*, *Frame Array* and *Body Array*.

The *SonArray Ultrasound module* is used in extra-cranial radiation therapy procedures by providing a real-time 3D reconstruction of the target at time of treatment. The infrared cameras and computer workstation correlate the ultrasound images to the CT images / volume of the target. The *Frameless Array module* is used in intra-cranial radiation therapy and radiosurgery procedures, providing highly repeatable and precise localization of the tumor site. The *Frame Array module* is used in intra-cranial radiosurgery procedures and provides highly precise

localization of the tumor site with a head ring and CT Localizer box.

The *Body Array module* is used in extracranial radiation therapy procedures, and provides precise localization and fixation of the tumor site with a vac-pac system.

Typical Duties of the Parties

To help assure a trouble-free project, good communications between the Customer, Architect and Contractor, and a clear agreement with the assignment of responsibilities involved in the construction or remodeling of the *Clinac*, we suggest inclusion of the following material in the appropriate sections of the Architectural Specification. Refer to the Customer/Varian *Terms and Conditions of Sale* and the Customer Purchase Order for a complete description of project-specific responsibilities.

The Customer shall:

- Provide supervision and temporary services/facilities.
- Provide As-Built Documentation (existing facility).
- Provide seismic testing for all supportive anchoring.
- Provide *Optical Guidance Platform* Project Manager
- Assign an internal representative for acceptance verification with Varian Installer
- Schedule initial training for staff with Varian Customer Relations Manager
- Verify the Varian Pre-Installation Checklist is completed.
- Provide equipment and material storage during construction.
- Provide Punch-List resolution and Warranty follow-up.

The Architect shall:

- Provide complete Architectural & Engineering Construction Documents for review.
- Provide Construction Regulatory Agency approval.
- Monitor conformance of the construction to the Construction Documents.
- Provide As-built documentation. (existing Facility)

The Contractor shall:

- Provide structural alterations as required.
- Provide casework, cabinetry, doors or other millwork.
- Provide electrical systems as required for room occupancy, including lighting and power distribution.
- Provide and connect electrical utilities required for the *Optical Guidance Platform*.
- Provide periodic and final cleanup.
- Remove Varian shipping crates.
- Pull Varian interconnect cables.
- Provide and pull network cables, where required.
- Maintain treatment room and control equipment area in a dust free and vandal-proof condition during *Gating System* assembly and testing.

Varian shall:

- Provide *Optical Guidance Platform* equipment.
- Provide planning assistance.
- Provide Construction Document review.
- Provide Installation and testing.
- Provide Customer Training.

Information and Support

The purpose of the IDP is to aid Customers, Architects, Engineers and Contractors in their understanding of Varian equipment requirements and facility design issues.

The IDP consists of equipment sections as listed below:

Section 1- Clinac 2100C/D,2300C/D,21EX,23EX, iX,Trilogy
 Section 2- Clinac 600C(/D),6EX,4EX
 Section 3- Acuity Simulator
 Section 4- VariSource, GammaMed
 Section 5- Treatment Planning VARiS and Eclipse
 Section 7- Silhouette Edition Clinac

For more information, contact your nearest regional support office or Varian's main Planning Department at:

Varian Medical Systems
 Planning Department
 911 Hansen Way, Bldg. 3 M/S C-165
 Palo Alto, CA 94304-1028
 (800) 278-2747
 (650) 424-5945
 (650) 424-6252 Fax
<http://www.varian.com/support>

Digital IDP

Available from the *Varian Web Page are Autocad .DWG and .DXF files for all sections of the IDP. These IBM PC-compatible files contain the Printed IDP details that are most useful for incorporation into the Architect's contract documents. A Printed Installation Data Package or Digital Installation Data Package is required to use the Digital Drawing files.

Included in each self un-archiving file is the complete keynote database saved as a comma-delimited ASCII text file that can be inserted into most word processors, spreadsheets and databases. Each detail, as designated by a letter in the lower left corner, is saved in a separate file for easy insertion into the Architect's documents. A CAD file name can be found in the lower right corner of each detail. These files are provided by Varian to simplify the design and drafting process and must be modified by the Architect and Engineers to satisfy all site-specific conditions and regional regulations.

* Download Autocad DWG and DXF files from:

<http://www.varian.com/support>

Keynotes

The drawings in the following section utilize keynotes to describe all non-graphic information. To simplify their use, these keynotes have been organized into the following general categories:

General Notes

10 General Notes

Layout Notes

20 General Layout Notes
 21 Equipment Layout / Clearances
 22 Rigging
 23 Dimension Descriptions
 24 Installation Notes

Finish Notes

30 Finishes
 31 Control Equipment Casework
 32 Room Storage Casework

Structural/Anchorage Notes

40 Base Frame Installation / Anchorage
 41 Component Anchorage Brackets
 42 Laser Positioning Light Mounting

Mechanical Notes

50 General Mechanical Notes
 51 Plumbing
 52 Coolant System
 53 Ventilation
 54 Compressed Air System
 55 Fire Protection

Electrical Notes

60 General Electrical Specifications
 61 Laser Positioning Lights
 62 Room Lighting
 63 Safety Device Systems
 64 Cable Access Runs
 65 Pull / Junction Boxes
 66 Circuit Breakers / UVRs
 67 Communications
 68 Misc Electrical Components
 69 Power Receptacles / Switches

Shielding Notes

70 Radiation Shielding
 71 Other Shielding

Room Description Notes

80 Room Labels / Descriptions

Varian Component Dimensions, Weights and Other Information

Information regarding Varian-supplied components, such as weights, dimensions, wattage and decibel output levels, is located on the *Varian-Supplied Component Information Table* at the end of this section.

The Planning Department provides:

Standard and Supplemental Data

Installation Data Package (IDP) - This package contains equipment and facility information required by the Customer, as well as the Customer's Architect, Engineers and Contractor. The IDP outlines the facility requirements to insure the quick and efficient installation of Varian equipment. All information provided in the IDP shall be processed by the Customer's Design Professionals for local regulatory agency and site-specific facility requirements. This information must then be incorporated into the Construction Documents. Since Varian equipment does not require modification to suit specific sites and all facility requirements are defined in the IDP, Varian does not provide shop drawings.

Supplemental Information - There are many supplemental documents available from the Planning Department's web page www.varian.com/support.

Typical documents available include:

- AutoCAD drawing files.
- Sample Seismic Calculations - These are available on request for all *Clinac* and *Acuity* models. These studies analyze the forces acting on the equipment's base frame connection to the floor.
- Specialized shielding documents.
- Third Party specification documents.

Site-specific Support

All site-specific documents supplied by Varian are provided to aid the Customer during the facility design and construction document preparation processes. These documents are intended to supplement the IDP with site-specific recommendations only. They do not provide additional engineering information and are not construction documents. All information provided in the IDP shall be processed by the Customer's Design Professionals for local regulatory agency and site-specific facility requirements. This information must then be incorporated into the Construction Documents. Since Varian equipment does not require modification to suit specific sites and all facility requirements are defined in the IDP, Varian does not provide shop drawings.

Preliminary Department Plan Review – The planning Department will require a preliminary plan of the proposed department. Upon receiving the plan we will comment on the following: Circulation paths, rig paths, special relationships, control area size and configuration, accelerator and or simulator room size and configuration. Upon request Varian can supply to our Customer or the Customer's Design Professionals examples of various department floor plans ranging in size and configuration including one or multiple vault layouts.

Proposal Drawing - This drawing shows the equipment in the proposed room in both plan and cross-section. It includes a shielding analysis of the equipment room with the proposed equipment. Any recommended additions to existing shielding are shown. It also includes recommendations for a schematic console layout, cabinets, sinks and support equipment as well as references to the appropriate sections of the IDP for these items. Where there are required site-specific variances to the information in the IDP (usually on existing facilities), additional information may be shown on this drawing. The Planning Department requires a dimensioned floor plan (or an extracted DWG or DXF CAD file of the specific area) room section, existing or proposed shielding layout and existing utility information.

Site Visit by Planning - In special circumstances, a Planning Department or other Varian representative will visit the site to review the facility or to consult with the Customer, Architect, and Engineers.

Construction Document Review - The Review of the Customer's construction documentation is usually Planning

Department's final contact with the project. In this review the architectural and engineering documents are checked to determine that the required additions or modifications to the facility are appropriate for Varian equipment. Varian checks only for those items that affect the operation of our equipment. Varian does not check for compliance with various regulatory agency requirements. The review is made to the extent that the submitted plans allow. This does not include verification of the adequacy of radiation shielding, which must be approved by the facility's Physicist of Record. The review does not constitute nor imply approval of either the architectural or engineering documents. Varian expressly denies any responsibility for the accuracy or adequacy of the construction documents prepared by the Customer's design consultants.

North American Architectural Planning Support

To obtain further Architectural support or information contact:

Western Region - Main Office

Varian Medical Systems
 Planning Department
 911 Hansen Way, Bldg. 3 M/S C-165
 Palo Alto, CA 94304-1028
 (800) 278-2747
 (650) 424-5945
 (650) 424-6252 Fax
<http://www.varian.com/support>

Central Region

Varian Medical Systems
 Planning Department
 403 International Parkway, Suite 503
 Richardson, TX 75081
 (972) 238-1855
 (972) 644-2681 Fax

Northern Region

Varian Medical Systems
 Planning Department
 2397 Hawthorne Drive
 Yorktown Heights, NY 10598
 (914) 243-2953
 (914) 243-2953 Fax

Southern Region

Varian Medical Systems
 Planning Department
 2250 Newmarket Parkway, Suite 120
 Marietta, GA 30067
 (770) 955-1367
 (770) 955-6936 Fax

International Support

<http://www.varian.com/support>



North American Regional Installation Offices

An Installation Project Manager inspects the on-site conditions and construction preparations. The Project Manager also supervises critical construction phases, such as base frame installation and final connections. All Planning Department correspondence will identify the Installation Project Manager for the project site. The regional office locations are:

Northern Region

Regional Installation Project Manager
 Varian Medical Systems Service
 200 East Howard Street, Suite 202
 Des Plaines, IL 60018
 (847) 296-0660
 (847) 296-8316 Fax

Southern Region

Regional Installation Project Manager
 Varian Medical Systems Service
 2250 Newmarket Parkway, Suite 120
 Marietta, GA 30067
 (770) 955-1775
 (770)984-6249 Fax

Education Department

For information regarding Varian training courses, contact:

Education Department

Varian Medical Systems
 596 Alder Drive
 Milpitas, CA 95035
 (408) 321-9400
 (408) 321-4445 Fax

North American Regional Sales Offices

The Varian Sales Manager is most familiar with the specific equipment order information. To verify equipment ordered, including specific options to be provided, contact either the Customer or the District Sales Manager. The regional office locations are:

Atlanta, Georgia

Varian Medical Systems
 2250 Newmarket Parkway, Suite 120
 Marietta, GA 30067
 (770) 955-1367
 (770) 984-6249 Fax

Chicago, Illinois

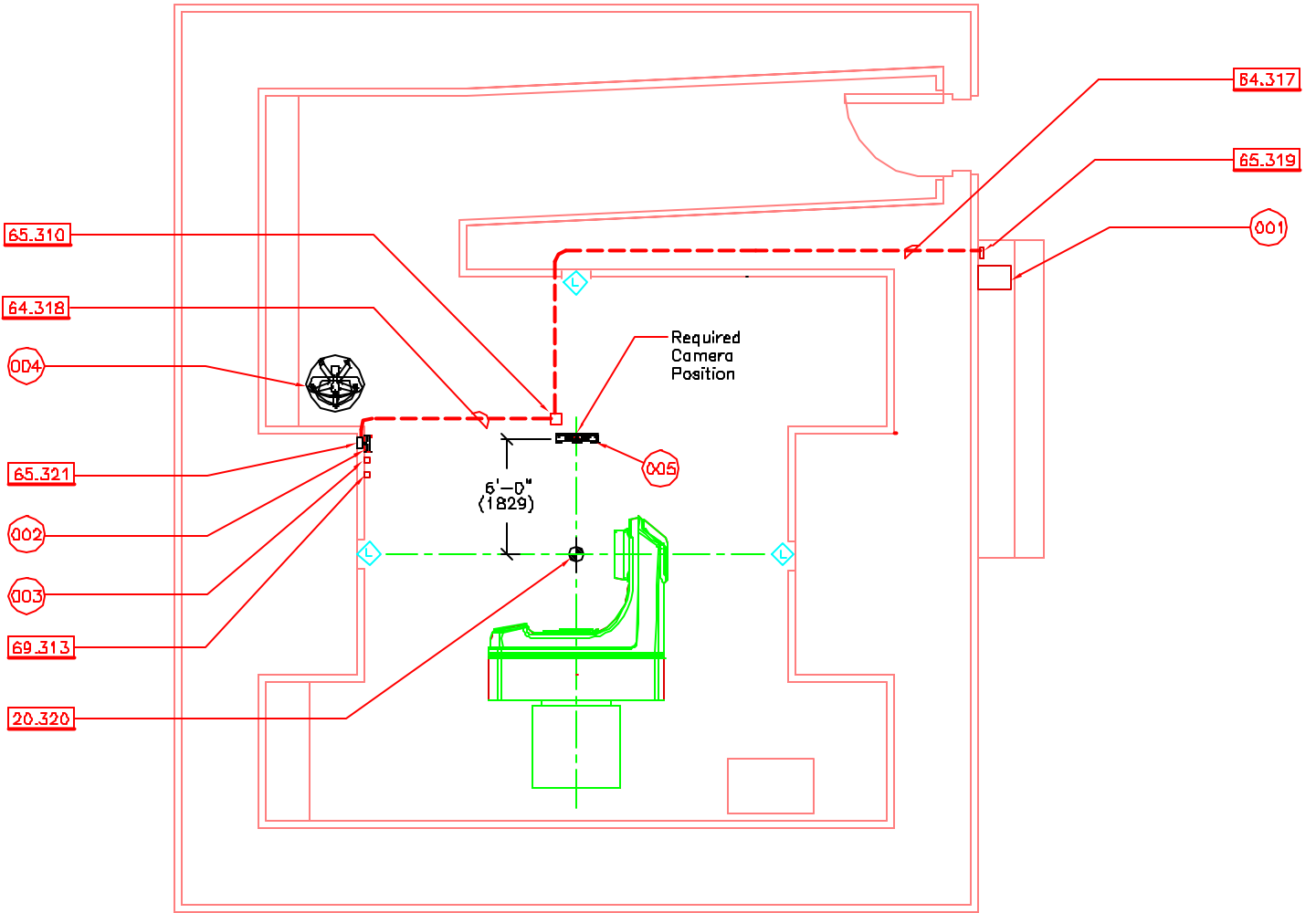
Varian Medical Systems
 200 East Howard Street, Suite 202
 Des Plaines, IL 60018
 (847) 296-5533
 (847) 296-0043 Fax

New Jersey

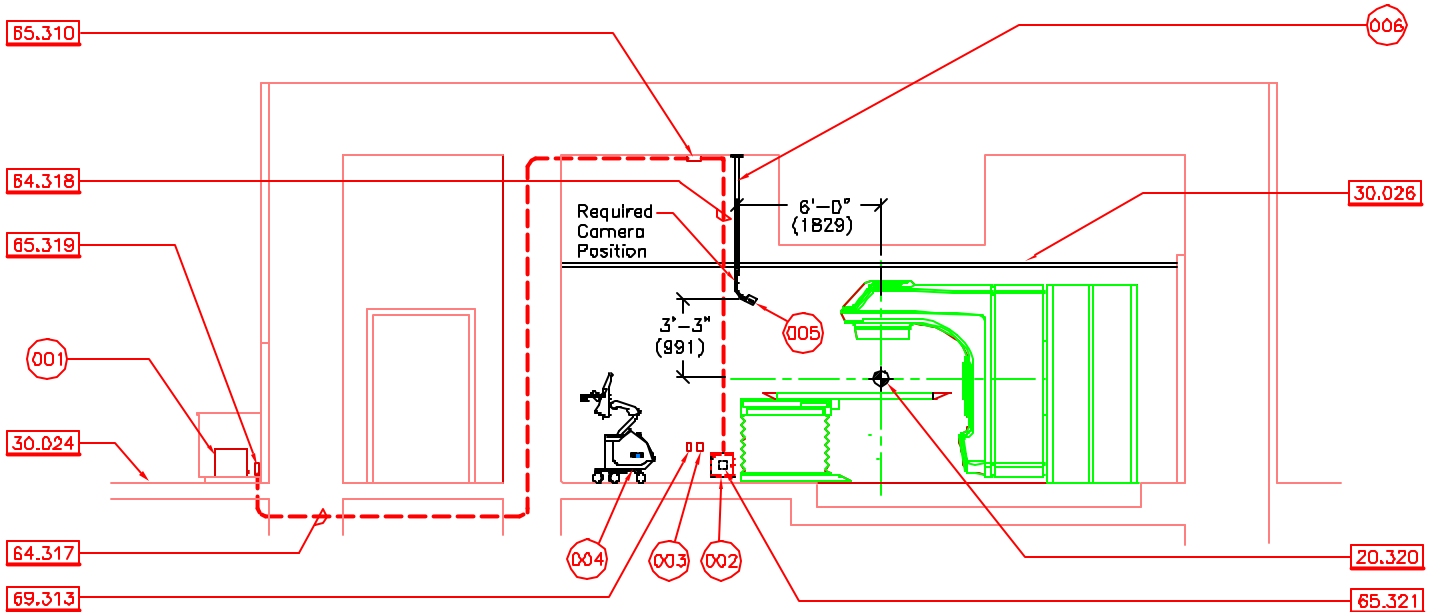
Varian Medical Systems
 100 Walnut Avenue
 Clark, NJ 07066
 (732) 381-5300
 (732) 381-1060 Fax

Southern California

Varian Medical Systems
 650 East Parkridge Suite 109
 Corona, CA 92879
 (909) 280-4401
 (909) 280-4300 Fax



B Optical Guidance System Installation - Typical Clinac Room Plan View 10.124 NOT TO SCALE IDP200D15



A Optical Guidance System Installation - Typical Clinac Room Section 10.124 NOT TO SCALE IDP200D14

	Refer to the Varian Components chart at the end of this section.	Optical Guidance System Installation Typical Clinac Treatment Room			
	Not For Construction				
S.1.0	:page planning dept.	© Varian Medical Systems 1999 All rights reserved.	15Apr07	revision: 1	doc. #: 200052
					page: S.1.0

10 - General Notes

10.124

The layouts shown on IDP drawings represent typical treatment room plans. Clearances and wall thicknesses vary.

20 - General Layout Notes

20.320

Isocenter - This is the primary reference point for Varian equipment. Show the isocenter location clearly on all relevant drawings. Maintain the isocenter location on site by extending perpendicular axis lines along slab and up walls in all four directions. The isocenter heights for Varian systems fall within 4'-2" to 4'-4.5". (1267 to 1330) The installed Gating Camera location shall be the same location in the Simulator and Clinac treatment rooms.

If using Optical Guidance Platform system with a Non-Varian machine, verify isocenter with specific vendor.

30 - Finishes

30.024

As with most computer components, the electronic components for this equipment are sensitive to localized static electricity. Carpeting or other flooring adjacent to the equipment in the room or at the control equipment area should not exceed a 2.0 kV rating at 20% relative humidity when measured as outlined by the methods in AATCC-134. Retrofit static dissipative coatings are also available from various manufacturers. Carpet, while otherwise advantageous, can make gurney movement difficult. Floor stains are common due to the use of dyes to mark reference points on patients. Many facilities use carpet squares that can be replaced or cleaned and allow access to floor duct if used.

30.026

Exposed grid ceilings allow for access to the power supply without the use of access doors. Service at the equipment is simplified where there are removable ceiling tiles. Coordinate the layout of ceiling tile to insure that ceiling support system does not interfere with the camera support and bracket.

64 - Cable Access Runs

64.317

Provide 2" (50) cable conduit from the Optical Guidance Platform Remote computer to the Treatment room junction box, not to exceed 75 feet (22,860) in length. Actual conduit routing is to be determined by the customer. This cable is provided by Varian and installed by the customer.

64.318

Provide 2" (50) cable conduit from the Optical Guidance Platform TIU Enclosure junction box to the Treatment Room junction box, not to exceed 75 feet (22,860) in length. Actual conduit routing is to be determined by the customer. This cable is provided by Varian and installed by the customer.

65 - Pull / Junction Boxes

65.310

Provide 6" X 6" X 4" deep (150 x 150 x 100) Treatment Room junction box with 2" (50) diameter grometed opening. Locate in close proximity to the camera mount.

65.319

Provide 6" x 6" x 4" (150 x 150 x 100) deep Control Console Pull Box with 2" (50) diameter grometed opening. Locate in close proximity to the Optical Guidance Platform Remote computer.

65.321

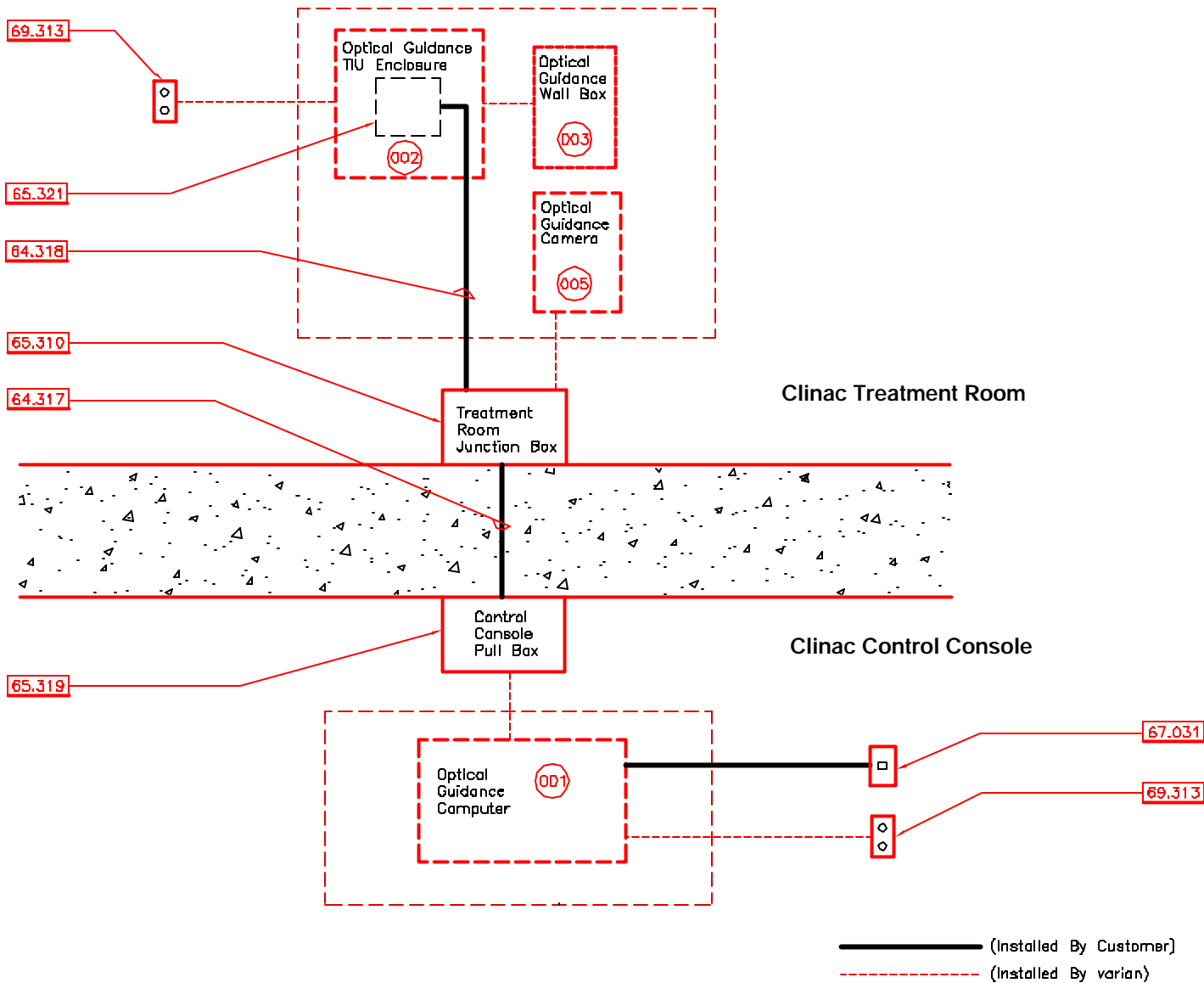
Provide 6" x 6" x 4" deep (150 X 150 X 100) Optical Guidance Platform TIU Enclosure junction box with removable cover. Locate on center with TIU Enclosure and 12" (300) above finished floor. The Pull Box must be flush with finished wall.

69 - Power Receptacles / Switches

69.313

Provide a grounded duplex power receptacle for Optical Guidance Platform components. Locate within 12" (300) of device.

VARIAN medical systems	[000] Refer to the Varian Components Table.	Optical Guidance Platform Installation				
	Not For Construction	Typical Clinac Treatment Room				
S.1.1 :page	planning dept.	© Varian Medical Systems 2001 All rights reserved	15Apr07	revision: 1	doc. #: 200052	page: S.1.1



Optical Guidance System Components							
Key	Equipment	Height inch (mm)	Width inch (mm)	Depth inch (mm)	Weight lb (kg)	Max Watts	Max dBa
001	Optical Guidance Remote Computer	19.5 (495)	8.5 (215)	24.5 (625)	33 (15)	400	n/a
002	Optical Guidance TIU Enclosure	19 (483)	18.5 (470)	6 (152)	20 (9.0)	n/a	n/a
003	Optical Guidance Wall Box	4.5 (114)	2.75 (70)	3 (76)	1 (0.5)	n/a	n/a
004	Optical Guidance Cart	63 (1600)	30 (762)	39 (991)	134 (61)	400	n/a
005	Optical Guidance Camera	3 (76)	23 (584)	4.3 (110)	7 (3.2)	n/a	n/a
006	Optical Guidance Camera Mounting Tube	Varies	1.3 (33)	n/a	1 (0.5)	n/a	n/a

10.124

IDP200016

	Refer to the Varian Components chart at the end of this section.	Optical Guidance System Installation Interconnect Wiring					
	Not For Construction						
S.2.0	:page	planning dept.	© Varian Medical Systems 1999 All rights reserved.	15Apr07	revision: 1	doc. #: 200053	page: S.2.0

10 - General Notes

10.124

The layouts shown on IDP drawings represent typical treatment room plans. Clearances and wall thicknesses vary.

64 - Cable Access Runs

64.317

Provide 2" (50) cable conduit from the Optical Guidance Platform Remote computer to the Treatment room junction box, not to exceed 75 feet (22,860) in length. Actual conduit routing is to be determined by the customer. This cable is provided by Varian and installed by the customer.

64.318

Provide 2" (50) cable conduit from the Optical Guidance Platform TIU Enclosure junction box to the Treatment Room junction box, not to exceed 75 feet (22,860) in length. Actual conduit routing is to be determined by the customer. This cable is provided by Varian and installed by the customer.

65 - Pull / Junction Boxes

65.310

Provide 6" X 6" X 4" deep (150 x 150 x 100) Treatment Room junction box with 2" (50) diameter grometed opening. Locate in close proximity to the camera mount.

65.319

Provide 6" x 6" x 4" (150 x 150 x 100) deep Control Console Pull Box with 2" (50) diameter grometted opening. Locate in close proximity to the Optical Guidance Platform Remote computer.

65.321

Provide 6" x 6" x 4" deep (150 X 150 X 100) Optical Guidance Platform TIU Enclosure junction box with removable cover. Locate on center with TIU Enclosure and 12" (300) above finished floor. The Pull Box must be flush with finished wall.

67 - Communications


67.031

Provide network cabling outlets at all server or workstation equipment locations. All network cabling must be in place and tested prior to equipment installation. Network patch panels, hubs and routers are typically located in a server room or closet.

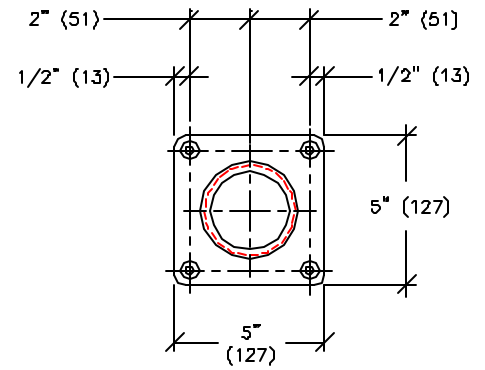
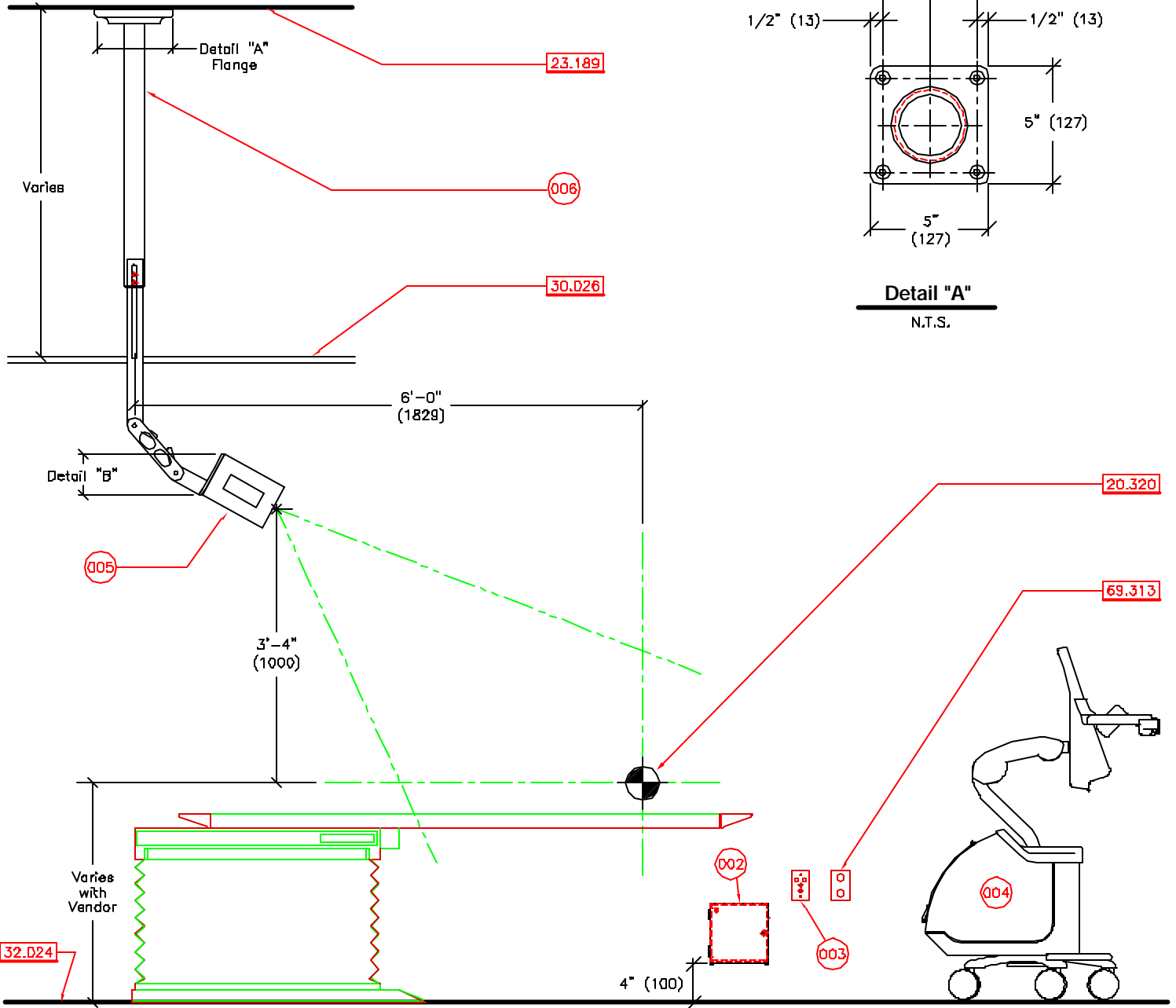
69 - Power Receptacles / Switches

69.313

Provide a grounded duplex power receptacle for Optical Guidance Platform components. Locate within 12" (300) of device.

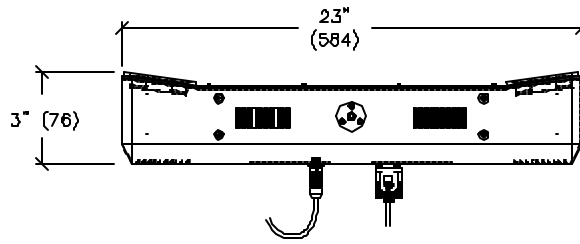
	[000] Refer to the Varian Components Table.	Optical Guidance Platform Installation Typical Interconnect wiring				
	Not For Construction					
S.2.1 :page	planning dept.	© Varian Medical Systems 2001 All rights reserved	15Apr07	revision: 1	doc. #: 200053	page: S.2.1

Ceiling Mount



Detail "A"

N.T.S.



Detail "B"

N.T.S.

A Optical Guidance Camera - Typical Mounting Installation

IDP200D17

	Refer to the Varian Components chart at the end of this section.	Optical Guidance System Installation Camera Mounting Detail			
	Not For Construction				
S.3.0	:page planning dept.	© Varian Medical Systems 1999 All rights reserved.	15Apr07	revision: 1	doc. #: 200054
					page: S.3.0

20 - General Layout Notes

20.320

Isocenter - This is the primary reference point for Varian equipment. Show the isocenter location clearly on all relevant drawings. Maintain the isocenter location on site by extending perpendicular axis lines along slab and up walls in all four directions. The isocenter heights for Varian systems fall within 4'-2" to 4'-4.5". (1267 to 1330) The installed Gating Camera location shall be the same location in the Simulator and Clinac treatment rooms.

If using Optical Guidance Platform system with a Non-Varian machine, verify isocenter with specific vendor.

23 - Dimension Descriptions

23.189

This is the line of the shielding barrier.

30 - Finishes

30.024

As with most computer components, the electronic components for this equipment are sensitive to localized static electricity. Carpeting or other flooring adjacent to the equipment in the room or at the control equipment area should not exceed a 2.0 kV rating at 20% relative humidity when measured as outlined by the methods in AATCC-134. Retrofit static dissipative coatings are also available from various manufacturers. Carpet, while otherwise advantageous, can make gurney movement difficult. Floor stains are common due to the use of dyes to mark reference points on patients. Many facilities use carpet squares that can be replaced or cleaned and allow access to floor duct if used.


30.026

Exposed grid ceilings allow for access to the power supply without the use of access doors. Service at the equipment is simplified where there are removable ceiling tiles. Coordinate the layout of ceiling tile to insure that ceiling support system does not interfere with the camera support and bracket.

69 - Power Receptacles / Switches

69.313

Provide a grounded duplex power receptacle for Optical Guidance Platform components. Locate within 12" (300) of device.

	[000] Refer to the Varian Components Table.	Optical Guidance Platform Installation Camera Mounting Detail			
	Not For Construction				
S.3.1 :page	planning dept.	© Varian Medical Systems 2001 All rights reserved	15Apr07	revision: 1	doc. #: 200054 page: S.3.1

Optical Guidance Platform Pre-Installation Checklist

In accordance with current Varian "Standard Terms and Conditions of Sale" RAD 1652, para. 15 & 16, the following are the minimum facility requirements to be accomplished before the shipment of your System can begin. Request for any exceptions should be referred to your Varian Regional Installation Coordinator. The Customer is responsible for having the building, utilities, lighting, ventilation, air conditioning, mounting facilities, all necessary radiation shielding, and access to the room completed by the day of final inspection. (If delays in completion delay installation, the Customer shall reimburse Varian at Varian's standard service rates for any extra time and /or travel by Varian made necessary by the delay). I have explained these requirements to the Customer on this date along with the specific requirements listed below.

Site	Equipment Type	Serial Number
Y N	OPTICAL GUIDANCE PLATFORM MODULES PURCHASED:	Y N OPTICAL GUIDANCE PLATFORM IN THE CLINAC CONTROL AREA:
<input type="checkbox"/> <input type="checkbox"/>	1. SonArray	<input type="checkbox"/> <input type="checkbox"/> 21. Enough space for Optical Guidance Platform Remote Computer.
<input type="checkbox"/> <input type="checkbox"/>	2. BodyArray	<input type="checkbox"/> <input type="checkbox"/> 22. Electrician available to pull Varian supplied cables at time of system installation.
<input type="checkbox"/> <input type="checkbox"/>	3. FramelessArray	<input type="checkbox"/> <input type="checkbox"/> 23. Telephone available for use in immediate area of console Phone # _____
<input type="checkbox"/> <input type="checkbox"/>	4. FramelessArray-SRS	
<input type="checkbox"/> <input type="checkbox"/>	5. FrameArray	
Y N	ARCHITECTURAL REQUIREMENTS:	Y N TREATMENT PLANNING REQUIREMENTS:
<input type="checkbox"/> <input type="checkbox"/>	6. Installation drawings reviewed by Varian.	<input type="checkbox"/> <input type="checkbox"/> 24. Vendor, name and version of Treatment Planning System(s) to be used with the Optical Guidance Platform. _____
<input type="checkbox"/> <input type="checkbox"/>	7. All required permits complete.	
Y N	OPTICAL GUIDANCE PLATFORM IN THE CLINAC TREATMENT ROOM:	<input type="checkbox"/> <input type="checkbox"/> 25. Do you plan an upgrade and/or change in treatment planning systems planned in the next 60 days?
<input type="checkbox"/> <input type="checkbox"/>	8. Bracket location for the Infrared Camera established.	<input type="checkbox"/> <input type="checkbox"/> 26. Will image data be sent direct from the Treatment Planning System above or from a PACS server?
<input type="checkbox"/> <input type="checkbox"/>	9. Conduits - correct number and size (conduits must be clean and dry).	<input type="checkbox"/> <input type="checkbox"/> 27. IP Address(es) of all Treatment Planning System(s) and/or PACS Server to be used with the Optical Guidance Platform. _____
<input type="checkbox"/> <input type="checkbox"/>	10. Junction Boxes – Correct size and location.	<input type="checkbox"/> <input type="checkbox"/> 28. Treatment Planning System(s) is capable of exporting DICOM-RT data.
<input type="checkbox"/> <input type="checkbox"/>	11. 120V AC outlet located per Installation Data Package Accessible?	
<input type="checkbox"/> <input type="checkbox"/>	12. Is the distance from the bracket to the Isocenter of the machine 6'-0"?	
<input type="checkbox"/> <input type="checkbox"/>	13. Please indicate the right or left side of the room you would like the cart installed. For SonArray only, the right side when facing the linear accelerator is preferable. <input type="checkbox"/> Right <input type="checkbox"/> Left	Y N SITE PICTURES: (Please attach photos)
<input type="checkbox"/> <input type="checkbox"/>	14. Make, model and serial number of the linear accelerator for use with the Optical Guidance Platform. _____	<input type="checkbox"/> <input type="checkbox"/> 29. Picture of the false ceiling at the approximate location of the Infrared Camera by the foot of the couch.
<input type="checkbox"/> <input type="checkbox"/>	15. Make and model of the linear accelerator couch. _____	<input type="checkbox"/> <input type="checkbox"/> 30. Picture of the structural cement ceiling at the approximate location of the Infrared Camera by the foot of the couch.
<input type="checkbox"/> <input type="checkbox"/>	16. Exact distance from floor to isocenter. _____	<input type="checkbox"/> <input type="checkbox"/> 31. Picture of the side view of the linac bunker. Please include the ceiling, other cameras and pendants arms that may present a problem.
<input type="checkbox"/> <input type="checkbox"/>	17. Exact distance from floor to false ceiling at the location of the Infrared Cameras. _____	<input type="checkbox"/> <input type="checkbox"/> 32. Picture of the junction box(es) and/or conduit(s) inside the linac bunker.
<input type="checkbox"/> <input type="checkbox"/>	18. Exact distance from the floor to the structural / cement ceiling at the location of the Infrared Cameras. _____	<input type="checkbox"/> <input type="checkbox"/> 33. Picture of the console area.
<input type="checkbox"/> <input type="checkbox"/>	19. The area directly above the Infrared Cameras and the ceiling mount are clear of obstructions including pendant arms, murals, air vents, light fixtures, etc.?	<input type="checkbox"/> <input type="checkbox"/> 34. Picture of any cameras, gating systems or other items that may potentially be blocked by the Optical Guidance Platform Infrared Camera.
<input type="checkbox"/> <input type="checkbox"/>	20. Is the false ceiling <input type="checkbox"/> Ceiling tiles <input type="checkbox"/> Finished Ceiling?	

Optical Guidance Platform Pre-Installation Checklist

Y N **REMOTE ACCESS:**

- 35. Is Web access permitted?
- 36. Is remote access by Varian via SmartConnect to Varian-provided equipment permitted?
- 37. Is a Proxy server needed to access the internet? If yes, what is the address? _____
- 38. Is a login required for staff to access the web?

NOTES: _____

Varian Representative _____

Customer Representative _____

Final Inspection Date _____