



DATE

Planning Department

Project Review Cover Sheet
Acuity

TO:

FAX:	
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FOR:

Review of Drawings Submitted by:

0 0 0 0 FAX: 0	PROJECT NUMBER:
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Activity Data:

Record Number: Drawings received on: Review completed on:	 23-Aug-05
Document Number: Revision:	 0

Contacts:

District Manager:	
Installation Coordinator:	
Reviewed by:	

Attachments:

Attachment One - Notes	

Dear , 0

Thank you for the opportunity to review these plans. The purpose of this review is to assist in the development and completion of this project. This review covers only the architectural requirements of our equipment. The checklist outlines the correct and incorrect elements of the plans and those that can not be determined. The notes referenced within the checklist may be found on Attachment One. All boxes marked "N" should be addressed by the architect and the revised documents may be resubmitted for review. The Varian Documents referenced are found in the Installation Data Package. Our review does not check for compliance with building codes and other regulatory agency requirements. Verification of shielding adequacy must be provided by the Physicist of Record for the project.

We look forward to answering questions you might have in connection with this project.

Sincerely,

0
Project Manager

Varian

Review Checklist - Appendix One

item comments

Acuity Review Notes

- 1 INFORMATION COULD NOT BE FOUND ON CONSTRUCTION DOCUMENTS
- 2 INFORMATION WAS "SHOWN" BUT NOT DIMENSIONED AND/OR SPECIFIED FOR LOCATION OR CONSTRU
- 3 VERIFY ALL SHIELDING AND ROOM PENETRATIONS WITH THE PHYSICIST OF RECORD.
- 4 VERIFY RIGGING PATH FROM UNLOADING POINT TO TREATMENT ROOMS.
- 5 NEED A NOTE
- 6 LOCATE ALL INSLAB PULLBOXES AND CONDUIT STUB-UPS
- 7 SHOW CONTROL EQUIPMENT
- 8 SHOW LOCATION DETAIL
- 9 SHOW INTERCONNECTION WIRING DIAGRAM DETAILS
- 10
- 11
- 12

review01.xls

12-Jul-05

Acuity

Customer

Varian

Treatment Room Configuration

Refer to Installation Data Package
Section Three

Notes:
Attach. 1

Drawing
Location

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Couch rotation clearance

<input type="checkbox"/>	Recommended	at least 9'-6" clear (plus 12"-18" at load/unload position)			200015
<input type="checkbox"/>	Acceptable	couch has obstruction OR load/unload not optimum			[3.23]
<input type="checkbox"/>	Unacceptable	less than 6'-2" clear			200017
<input type="checkbox"/>	Cannot be determined				[3.25]

Gantry ceiling clearance

<input type="checkbox"/>	Recommended	at least 8'-6" clear			200015
<input type="checkbox"/>	Acceptable	8'-2" clear			[3.23]
<input type="checkbox"/>	Unacceptable	less than 8'-2" clear			200018
<input type="checkbox"/>	Cannot be determined				[3.26]

Isocenter to back wall distance

<input type="checkbox"/>	Recommended	at least 7'-8" clear			200015
<input type="checkbox"/>	Acceptable	7'-8" clear			[3.23]
<input type="checkbox"/>	Unacceptable	less than 7'-8" clear			
<input type="checkbox"/>	Cannot be determined				

Service clearances at stand

<input type="checkbox"/>	Recommended	all service doors can open fully			200015
<input type="checkbox"/>	Acceptable	some/all doors can be opened and removed			[3.23]
<input type="checkbox"/>	Unacceptable	some/all doors cannot be accessed			200017
<input type="checkbox"/>	Cannot be determined				[3.25]

Entrance Door & Passage

<input type="checkbox"/>	Recommended	48" by 84" net opening - 72" net width passage			200015
<input type="checkbox"/>	Acceptable	42" by 84" passage - accepted by Varian			[3.23]
<input type="checkbox"/>	Unacceptable	inadequate for rigging			200016
<input type="checkbox"/>	Cannot be determined				[3.24]

Console Area

<input type="checkbox"/>	Recommended	adequate counter area			861707
<input type="checkbox"/>	Acceptable	less than recommended			[3.26]
<input type="checkbox"/>	Unacceptable	inadequate working area			862463
<input type="checkbox"/>	Cannot be determined				[3.22]

Isocenter

Y N

<input type="checkbox"/>	Isocenter height identified - 4'-0 7/16"				200014
<input type="checkbox"/>	Isocenter located from two inside walls				200017

Treatment Room

Accessories and Supplies casework

Notes Y N

Space for Varian-supplied Applicators			
Space for Varian-supplied FFDA's			
Space for Blocks			
Adequate linen/misc. storage space			
Sink and counter			

	200022 [3.30]
	200023 [3.31]

Console

Control area casework

Notes Y N

Counter Height	standing ht - 34/36"	sitting ht - 29/30"			
30" deep counter with 20" deep shelf at least 12" above counter					
Counter length for:	6' Acuity	3' Varis			
Ded. four-plex:	3 Acuity	1 Varis			
Keyboard drawer:	1 Acuity	1 Varis			
Computer platform:	1 Acuity				
Under counter shelf - Paxscan image command processor					
Grommets for cables					
File or chart storage/Paper & supplies/Personal property					

	200019 [3.27]
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Shielding - Review with Physicist

Y N

Physicist report included with drawings			
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General

Notes Y N

Wall shielding to 7'-0" above floor			
12" wider than beam at each side			

	200013 [3.21]
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Primary beam & Secondary leakage/scatter shielding

Notes Y N

6 lb lead equivalent at primary beam walls and ceiling			
5 lb lead equivalent at other walls and ceiling			

	200013 [3.21]
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Console view window/door shielding

Notes Y N

Appropriate lead shielding equivalence			
Appropriate location and size			

	200013 200014
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Pit Configuration

General

Notes Y N

isocenter referenced to sides of pit			
Note: "Maintain level floor in 6'-0" radius of isocenter"			
Rebar shown to avoid anchors			

	200025 [3.33]
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Pit construction

Standard VEO frame

Notes Y N

Pit size:	9'-9"L x 5'-6"W x 7.5"D			
Slab thickness:	8" for anchors			

	200025 [3.33]
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Base frame installation

Installed by Customer Installed by Varian

Notes Y N

Fill grout specified			
Grout cure time indicated as seven days			
Note "Base frame installed into pit by Contractor".			
Note "Grouting of Base Frame by Contractor".			
Proper clearances from unloading area to treatment room			
Rigging clearances require 2-piece breakdown of Baseframe			

	200025 [3.33]
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Drawing
Location

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Mechanical

H.V.A.C.	Notes	Y	N
Ventilation at gantry/stand			
Ventilation at control console			

	200020 [3.28]
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Electrical

Electrical -- Power supply	Notes	Y	N
480VAC three phase-60 amp, 60Hz(US)			
100kVA supply capacity			
Power conditioner specified			

	200029 [3.37]
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Electrical - Power panel	Notes	Y	N
Circuit breaker - GE VACU60A480V (US)			
UVR - GE 24VDC # TEDUV8RS	Included in above		
Four wire plus ground (three phase - "wye")	Included in above		
Bridge rectifier (24 VDC, 0.5 amp)	Included in above		
115/24v (US) control transformer	Included in above		
1 amp fuse(US)	Included in above		
Location in treatment room			
Location at console (may be required by code)			

	200027 [3.37]
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Cable Access

General	Notes	Y	N
Runs between base and console do not exceed 80 feet			
conduit runs between pull boxes have 270 degrees of bend max			
conduit bend radii are at least 6 diameters			
terminate floor duct with 8" turn up			

	200027 [3.35]
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Pull boxes	Notes	Y	N
Access Method	bottom	side	tray/duct
	W L D		
Base Frame	12" 18" 6"		3"x9" divided
Control Console	12" 18" 6"		3"x9" divided

	200026 [3.34]
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Conduit	tray/duct	Notes	Y	N
Base to Console	two each 4" dia	3"x9" divided		
In-Room Monitor conduit (1 1/2" dia) and outlet box to Acuity				

	200027 [3.35]
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Drawing
Location

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Facility connections

Notes Y N

Conductor/conduit to power panel			
Conductor/conduit from power panel to Acuity			
Relay Junction Box (12"x12"x6")			
Two 2" conduits from Relay Junction Box to Acuity			

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200027
[3.35]
Elev C

Operating and Safety Devices

Conduit routing for required devices

Notes Y N

Warning light to Relay Junction Box			
Door interlocks to Relay Junction Box			
Emergency-off switches to Acuity drive stand			
Room lights to relay junction box			
Laser positioning lights to relay junction box			

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200027
[3.35]
200029
[3.37]

Control relay

Notes Y N

Potter Brumfield - PRD11DG0			
Room lights controlled by relay			
Lasers controlled by relay			

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200029
[3.37]

Device locations *devices are provided by Customer*

Notes Y N

Warning light over entrance and visible from all points in room			
24 volt Door interlock			
Emergency-off type: Manual reset - normally closed			
Emergency-off located outside of primary beam path			
Convenience outlet for each laser positioning light			
Radiation Detector and Monitor (option)			
Adequate quantity and location of Room lights			
Setup lights located on both sides of couch			
Setup lights dimmable and independent of room lights			

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200028
[3.36]

Lasers supplied by Varian supplied by Customer

Notes Y N

All lasers mounted rigidly to concrete or steel beams			
Overhead laser mounted perpendicular or parallel to axis			
Overhead laser beam port at Isocenter			
Side lasers beam port shown at Isocenter height			
Adequate clearance in laser recesses			
Side lasers protected from bumping, if not recessed			
7'-6" minimum height to sagittal laser beam port			

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200021
[3.29]
200028
[3.36]

Service provisions

Notes Y N

Duplex outlet at Acuity			

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200028
[3.36]

In Room Monitor

Notes Y N

In-Room Monitor conduit (1 1/2" dia) and outlet box located in room			
Bracket/Mounting detail for In Room Monitor			
Conduit from Monitor to Acuity			

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200024
[3.32]

Console convenience items

Notes Y N

Varis Network data outlet			
Telephone outlet			
Dimmable console area lighting			

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200028
[3.36]

If Console is Remote:

Drawing Location

Doc No. [Page No.]

Patient intercom provisions By Customer

	Notes	Y	N
Monitor located near couch			
Signal cable conduit to console			

	200028 [3.36]
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CCTV provisions camera(s) By Customer

	Notes	Y	N
Proper location of camera(s)			
Power outlets for camera(s) (120v system only)			
Video cable conduit to console			

	200028 [3.36]
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Final Connections

Electrical By Customer By Varian

	Notes	Y	N
"Power connection made:" Responsibility note			
"Signal connections made:" Responsibility note			
"Varian-supplied cables pulled:" Responsibility note			

	200029 [3.37]
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Finishes

Floor

	Notes	Y	N
"Install finished floor after equipment is rigged" note			
Anti-static floor specified in Control Console			
Anti-static floor specified in Treatment Room			

	200015 [3.23]
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Rigging By Customer By Varian

	Notes	Y	N
Proper clearances from unloading area to treatment room			
"150 sq. feet secure storage area available during installation" note			
"Install finished floor after equipment is rigged" note			

	200016 [3.24]
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Respiratory Gating

Customer

Varian

Treatment Room

Refer to Installation Data Package	
Gating Section	FOC = Face of Concrete

Notes:
Attach. 1

Drawing
Location

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Camera Position

	Notes	Y	N
15 degrees right or left of Isocenter (Plan)			
40 degrees up from Isocenter			
Camera positioned between 6 and 14 feet from Isocenter			
Camera bracket	Wall	Ceiling	Mounted
Camera bracket construction detailed			

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G1.0
G7.0

Electrical

	Notes	Y	N
1" conduit from camera power supply to Gating Equipment Console			
Standard computer signal cable outlet at each end of conduit			
Note: Conduit length not to exceed 75'-0"			

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G1.0
G7.1

Power

	Notes	Y	N
Grounded 120V. 60HZ. Power receptical for Camera power supply			
Power receptical located with in 12" of Camera power supply			
Standard wall switch for camera power supply receptical			

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G1.0
G7.1

Console

Control area casework

	Notes	Y	N
Gating Workstation located on Control counter			
20 Amp dedicated quad receptical			
Grommets for cables			

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G1.0
G2.0

Notes

	Notes	Y	N
Mounting of Camera power supply by Customer/Contractor			
Mounting of Camera support Bracket by Customer/Contractor			
"Varian-supplied cables pulled:" Responsibility note			

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G1.0
G2.0

CT Simulator

	Notes	Y	N
Customer supplied wall mount for Gating camera Support Assembly			
Customer supplied Curtain rail for Gating Camera cable support			

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1.5.0
