



**RADIOLOGY SUITE PROGRAMMING AND PLANNING SERVICES**

(based upon a single magnet installation / replacement)

**RADIOLOGY Suite Programming and Planning Services .....**

RAD-Planning would make design recommendations and prepare up to three schematic imaging suite layout options based upon equipment and programming information provided by you. These plans would incorporate the latest developments in modality safety, including industry standard patient screening protocols. These plans would include provisions for equipment delivery/replacement and infrastructure services. RAD-Planning would prepare CAD files based upon CAD backgrounds of the existing site conditions provided by you and RAD-Planning field notes from the Site Evaluation.

After review and approval, RAD-Planning would update the selected schematic layout to incorporate your comments. RAD-Planning would provide one set of hard copy plans and a CD with the schematic CAD files. These plans could then be used by the Architect of Record to complete the construction documents and coordinate the construction of the project.

RAD-Planning would require vendor information and siting documentation from the imaging equipment vendor(s) that you are considering for the project. Services are concluded upon final acceptance of the updated schematic layout. Any additional follow-up will be billed on an hourly basis, unless arranged otherwise.

**RADIOLOGY Suite Design Charette .....**

As an additional service incorporated with **RADIOLOGY Suite Programming and Planning Services**, RAD-Planning can participate in a one-day on-site design workshop. The Design Charette would bring all of the involved parties together for an intense one-day design session to quickly identify the critical issues and design responses required to meet them. We have found this to be a quick and powerful way to both develop consensus about the project while allowing all shareholders to voice their concerns and provide instant feedback about the suite design. This allows the end-users to quickly review schematic options as they are being developed and to make sure that the designers are correctly "hearing" their concerns. The workshop participants would include, your staff, staff members from RAD-Planning and if known at the time the Architect of Record for the project.

Standard reimbursable expenses are not included in the base fee noted above. These include printing, delivery, communications, and travel expenses

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## EXPERT DESIGN COLLABORATION

For our Expert Design Collaboration services we charge an Equipment Coordination fee that ranges from 1% to 2% of the new imaging equipment costs depending upon the services required. This fee is based solely on the imaging equipment.

This service is designed for facilities that have an existing relationship with an Architectural or Design Firm of record and wish to bring in an Imaging Consultant to deal with the complicated safety, siting and coordination issues related to either high-value imaging equipment or multi-modal conflicts. For this service, we custom tailor our expert consulting services to the specific needs of the client, the facility and the design team.

Our dedicated Imaging architects will assist throughout the entire design and construction process. Our services have included, but are not limited to the following:

### ❑ PLANNING

- Site selection for optimal image quality
- Suite programming and space planning
- ACR recommended safety zones (for MRI)
- NRC security features (for Nuclear Medicine)
- Efficient patient flow using facility favorable staffing ratios
- Planning for future equipment expansion without service interruption
- Equipment modality coordination
- Participation in an Imaging suite design charette

### ❑ DESIGN AND DOCUMENTS

- Initial suite layout
- Imaging related construction specifications
- Detailing of specialty non-ferrous products and materials for the magnet room
- Coordination of appropriate technical infection control finishes within the scanner room

### ❑ EQUIPMENT VENDOR COORDINATION

- Vendor equipment comparison
- Supplement to vendor siting requirements

### ❑ CONSTRUCTION ADMINISTRATION

- Bidder qualification score card and evaluation
- Response to bidders Imaging related questions
- Response to contractor questions pertaining to the unique construction materials and methodologies of imaging suites during construction
- Development of construction and vibration guidelines to minimize construction interference with existing imaging equipment.
- Construction observation during critical phases to imaging.
- Final imaging related punch list

Our Expert Design Collaboration can be provided in two forms.

1. As the owner's Imaging representative reviewing and coordinating unique Imaging methodologies and issues with the owners design team.
2. As a Specialty Imaging sub-consultant working directly for the Architect of Record (similar to the arrangement an architect may have with a separate structural engineering firm, or mechanical engineer).

For those unsure if their project would benefit from Expert Design Collaboration and looking for an inexpensive assessment of the initial design, we recommend the Expert Peer Review as an excellent first step. If the design has appropriately addressed the safety, operational and design issues, the Expert Peer Review is a low-cost peace-of-mind safety check. If issues are identified that need additional attention, we can then move easily into the Expert Design Collaboration and work with your project team to help provide a safer and more productive suite.

Standard reimbursable expenses are not included in the base fee noted above. These include printing, delivery, communications, and travel expenses.

**RADIOLOGY SUITE DESIGN PEER REVIEW .....**

This service is designed for facilities that have already engaged a design professional and are currently in the design stage for a new or expanded Imaging facility or are having issues with a facility not operating properly after construction. For this service we review the current drawings from the facility, imaging equipment vendor, Architect and/or Design/Build contractor. We prefer to do this early in the design stage (to minimize any redesign costs or delays), but this can be completed at any time. For this service we review the MR equipment, suite layout, design and construction details for the degree to which each addresses the following items:

- ❑ **PHYSICAL HAZARDS**
  - Missile effects & cryogen hazards (MRI)
  - Incidental and occupational radiation exposure (Radiography and Nuclear Medicine)
  - Emergency exiting
  - Emergency access
  
- ❑ **OPERATIONAL SAFETY PROTOCOLS**
  - Access features
  - Screening areas / devices
  - HIPAA patient privacy issues
  - Patient visualization
  - Patient flow
  
- ❑ **SUITE PLANNING, DESIGN AND CONSTRUCTION**
  - Vibration isolation
  - Disruption to other modalities / functions
  - Maximizing image quality
  - Capacity for interventional care
  - Future upgrade / expansion issues
  - Shielding issues
  - Infrastructural support

The base service is for the review of a single imaging suite and assumes that the building site, wing or suite has already been chosen. This review depends exclusively on information provided by the facility, vendor, Architect and/or Design/Build contractor. The final report will provide an analysis of the proposed suites capacity to support the safe operational and design goals of an Imaging facility as noted above.

The following items can be provided as an additional service to the Peer Review:

- Review of multiple individual modalities and shared multi-modal suites.
- Assistance to help identify the best site for patient safety, image quality and patient flow.
- Site visits to verify existing site information.
- Design recommendations to correct any deficiencies noted in the final Peer Review report.
- Participation in a one or two day imaging design charette with the facility and design team.

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