# University of Alabama System Board Rule 415 (2/2005) Board Submittal Checklist Criteria

# <u>\* Board Submittal Checklist No. 1</u> <u>Capital Project – Stage I Submittal /1</u> <u>(General Information Package)</u>

Campus:	The University of Alabama
Project Name:	University Medical Center - Addition for Magnetic Resonance Imaging
UA Project #:	018-20-2305
Meeting Date:	February 6 – 7, 2020

- 1. Completed Board Submittal Checklist No. 1
  - 2. Transmittal Letter to Chancellor from Campus President requesting the project be placed on the agendas for the forthcoming Physical Properties Committee and Board of Trustees (or Executive Committee) meetings
  - Proposed Board Resolution requesting approval of Stage I Submittal by UA Board of Trustees
    - 4. Campus correspondence/photos providing supporting project information
    - 5. Completed Executive Summary Proposed Capital Project /2
    - 6. Completed Supplemental Project Information Worksheet Attachment "K", Board Rule 415
    - 7. Campus map(s) showing Project site
    - 8. Business Plan

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Prepared by: Approved by:

- /1 Reference Tab 3F Board Rule 415 Instructional Guide
- /2 Reference Tab 3E Board Rule 415 Instructional Guide
- \* Basic documents required for this Board Submittal Package. Include other supporting materials, correspondence, etc., as may be required to fully describe or illustrate project being submitted for approval to Physical Properties Committee and Board of Trustees.



Office of the President

January 10, 2020

Chancellor Finis E. St. John IV The University of Alabama System 500 University Boulevard East Tuscaloosa, Alabama 35401

Dear Chancellor St. John:

I am pleased to send to you for consideration by the Board of Trustees at its February 7, 2020 meeting the following resolution:

• Board Item - Action: Stage I Submittal: University Medical Center - Addition for Magnetic **Resonance** Imaging UA Project #018-20-2305

Please contact us if you have questions or need additional information.

Sincerely, Stuart R. Bell

President

Enclosure



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#### RESOLUTION

### UNIVERSITY MEDICAL CENTER - ADDITION FOR MAGNETIC RESONANCE IMAGING

WHEREAS, in accordance with Board Rule 415, The University of Alabama ("University") is requesting The Board of Trustees of The University of Alabama ("Board") to consider approval of the Stage I submittal for the University Medical Center - Addition for Magnetic Resonance Imaging project ("Project") located at 850 Peter Bryce Boulevard: and

WHEREAS, this Project will positively affect faculty research, faculty and graduate student recruitment and retention, as well as enhance undergraduate training; and

WHEREAS, the Project location and program have been reviewed and are consistent with the University Campus Master Plan, University Design Standards and the principles contained therein; and

WHEREAS, the Project will be funded from the Office of Academic Affairs Research Reserves in the amount of \$2,535,838 and the Office for Research and Economic Development Research Reserves in the amount of \$4,976,882 ; and

	Ψ +	120,000
Owner Purchased Furniture (MRI)	\$	2,500,000
Landscaping	\$	50,000
Security/Access Control	\$	25,000
Telecommunication/Data	\$	50,000
Contingency* (10%)	\$	384,000
UA Project Management Fee** (3%)	\$	126,720
Architect/Engineer Fee*** (~8.13%)	\$	312,000
Expenses (Surveys, Testing, Inspections)	\$	25,000
Other Fees and Services (Advertising, Printing, Postage)	\$	100,000
TOTAL PROJECT COST	\$	7,512,720

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\*Contingency is based on 10% of the cost of Construction and Landscaping.

\*\*UA Project Management Fee is based on 3% of the cost of Construction, Landscaping and Contingency.

\*\*\*Architect/Engineer Fee is based on 6.5% of the cost of Construction and Landscaping plus a 1.25 renovation factor.

NOW, THEREFORE, BE IT RESOLVED by The Board of Trustees of The University of Alabama that:

1. The Stage I submittal package for the Project is hereby approved.

2. The preliminary budget for the Project as stipulated above is hereby approved.



#### Division of **Finance and Operations**

January 9, 2020

From:

To:

Matthew M. Fajack

Subject: Board Item – Action: Stage I submittal: University Medical Center - Addition for Magnetic Resonance Imaging UA Project #018-20-2305

In accordance with Board Rule 415, The University of Alabama ("University") is requesting The Board of Trustees of The University of Alabama ("Board") to consider approval of the Stage I submittal for the University Medical Center – Addition for Magnetic Resonance Imaging ("MRI") project ("Project") located at 850 Peter Bryce Boulevard. The Project will positively affect faculty research, faculty and graduate student recruitment and retention as well as enhance undergraduate training.

The proposed Project will entail a one-story addition of approximately 6,300 GSF, which is tentatively planned to be located below and due west of the northwest corner of the Student Health Addition. The Project would include the space for the MRI, support space and shell space, but also be located so as to be able to support a future 2<sup>nd</sup> floor addition. The purchase of one MRI is included in the Project.

The \$7,512,720 Project will be funded from Office of Academic Affairs Research Reserves in the amount of \$4,976,882 and Office for Research and Economic Development Research Reserves in the amount of \$2,535,838.

This Project location and program have been reviewed and are consistent with the Campus Master Plan, University Design Standards, and the principles contained therein.

I have attached a Resolution, Executive Summary, Project Summary, Attachment K and Location map for your review. Subject to your approval, I recommend this item be forwarded to the Chancellor for inclusion as an Action Item on the agenda of the Physical Properties Committee at the Board of Trustees meeting scheduled for February 6 – 7, 2020.

MMF/ccj

pc w/atchmts:

Michael Rodgers Michael Lanier

Tim Leopard Sommer Coleman Dennis McDaniel

# WHERE LEGENDS ARE MADE

### EXECUTIVE SUMMARY PROPOSED CAPITAL PROJECT

#### **BOARD OF TRUSTEES SUBMITTAL**

Meeting Date: February 6 – 7, 2020

CAMPUS:	The University of Alaba	The University of Alabama, Tuscaloosa, Alabama		
PROJECT NAME:	University Medical Ce	University Medical Center – Addition for Magnetic Resonance Imaging		
<b>PROJECT LOCATION:</b>	850 Peter Bryce Boulev	850 Peter Bryce Boulevard		
ARCHITECT:	To Be Determined	To Be Determined		
THIS SUBMITTAL.		PREVIOUS APPROVALS:		
Stage I				
Stage II				
Stage III				
Stage IV				
PROJECT TYPE	SPACE CATEGORIES	PERCENTAGE	GSF	
New Construction	Shell Space	18%	1,100	
Building Addition	Research Space	22%	1,400	
Building Renovation	Support Space	60%	3,800	
Other				
	TOTAL	100%	6,300	
BUDGET			Preliminary	
Construction		5	3,790,000	
Furniture, Fixtures and Equip	oment	9	150,000	
Landscaping	t (MRI)	3	50,000	
Security/Access Control		4	25,000	
Telecommunication/Data		4	50,000	
Contingency* (10%)		9	384,000	
UA Project Management Fee*	* (3%)	\$	126,720	
Architect/Engineer Fee*** (~8	3.13%)	4	312,000	
Expenses (Surveys, Testing, In	aspections)	5	25,000	
Other Fees and Services (Adve	ertising, Printing, Postage)	\$	100,000	
TOTAL PROJECT COST			5 7,512,720	

\*Contingency is based on 10% of the cost of Construction and Landscaping.

\*\*UA Project Management Fee is based on 3% of the cost of Construction, Landscaping and Contingency.

\*\*\*Architect/Engineer Fee is based on 6.5% of the cost of Construction and Landscaping plus a 1.25 renovation factor.

ESTIMATED ANNUAL OPERATING AND MAINTENANCE (O&M) COSTS:				
(Utilities, Housekeeping, Maintenance, Insurance, Other)				
6,300 GSF x ~\$10.89/GSF \$ 68,632				
TOTAL ESTIMATED ANNUAL O&M COSTS:	\$	68,632*		
*Not inclusive of MRLO & M				

#### FUNDING SOURCE:

Capital Outlay:	
Office of Academic Affairs Research Reserves	\$ 4,976,882
Office for Research and Economic Development Research Reserves	2,535,838
O&M Costs: University Annual Operating Funds	\$ 68,632

#### NEW EQUIPMENT REQUIRED:

Magnetic Resonance Imaging Machine \$ 2,500,000

#### **RELATIONSHIP & ENHANCEMENT OF CAMPUS PROGRAMS:**

The University Medical Center Addition for Magnetic Resonance Imaging project ("Project") will impact the Sports Medicine, Psychology, Educational Neuroscience and Engineering programs as well as provide undergraduate research opportunities. The capability to study the intact human body, particularly, the brain with MRI is an essential element of propelling The University of Alabama ("University") to becoming a top-ranked research university. Having such system will positively affect faculty research, faculty and graduate student recruitment and retention as well as enhance undergraduate training.

Use of the MRI for the Sports Medicine Clinic will permit the fast diagnosis of sports injuries. Additionally, the MRI system will allow for expanded research in the study of muscle, joint and bone injury, as well as concussion.

Human neuroscience has become critical to Psychology. Having a research MRI facility at the University will allow for the growth of experimental psychology and neuroscience undergraduate and graduate programs on campus. It will also boost the research of the strong clinical psychologists by being able to study the neural bases of psychological disorders.

The new educational Neuroscience program in the College of Education will benefit significantly from having research dedicated equipment that allows for the study of the neural bases of learning. The acquisition of the MRI system will allow faculty to expand their research and engage undergraduate students in their work.

Having MRI on campus also opens the door for research that involves the College of Engineering. Imaging and time series analyses, MRI data acquisition and pulse programming, artificial intelligence and machine learning, and instrumentation development are only a few areas related to MRI that would involve engineering.

Human neuroscience is a growing area of interest for undergraduates because it touches several disciplines. Having a MRI system will create an opportunity for undergraduates to learn more about how brain imaging, neuroscience and related research is done.

Human imaging – both body imaging and brain imaging – will transform the research landscape of the campus and will attract top faculty, graduate students and undergraduates.

### ATTACHMENT NO. 1 Project: University Medical Center – Addition for Magnetic Resonance Imaging BOT Submittal: Stage I Meeting Date: February 6 – 7, 2020

### **Project Summary**

#### UNIVERSITY MEDICAL CENTER - ADDITION FOR MAGNETIC RESONANCE IMAGING

The University Medical Center – Addition for Magnetic Resonance Imaging project ("Project") will consist of an addition of 6,300 square feet (sf) to accommodate a Magnetic Resonance Imaging (MRI) machine suite at the University Medical Center located at 850 Peter Bryce Boulevard. The addition would include one MRI room, shell space for a future MRI and necessary support, reception, restrooms and office space.

In addition to medical diagnostic applications in support of the Sports Medicine Clinic operations, the capability to study the intact human body, particularly the brain, with MRI is an essential element of propelling The University of Alabama ("University") to becoming a top-ranked research university. Every top research university has a dedicated research ready MRI system ("System"). Having such a System will positively affect faculty research, faculty and graduate student recruitment and retention, as well as enhance undergraduate training. The high-field MRI system will impact the following programs: Sports Medicine, Psychology, Educational Neuroscience, Engineering, and Undergraduate Research, while also assisting in maintaining the Carnegie Doctorial Granting classification.

The proposed Project, tentatively planned to be located below and due west of the northwest corner of the Student Health Addition, will be a one-story concrete frame set into the hillside to accommodate the MRI and related support services. The exterior of the addition will be brick veneer with cast stone to precisely match and align with the existing Student Health building. The facility will be designed to accommodate a future second-floor addition that would align with the existing gabled end of Student Health to provide a seamless transition to the buildings.

The potential for a future addition will be accommodated by coordinating and allocating space for future vertical circulation needs.

## Attachment K to Board Rule 415

# Supplemental Project Information Worksheet Annual Capital Development Plan

# FY: <u>2019 - 2020</u>

Project Name/Category:	University Medical Center – Addition for Magnetic Resonance Imaging
Location/Address:	850 Peter Bryce Boulevard
Campus:	The University of Alabama

# 1. Will this Project increase the current space inventory on campus or replace existing space?

increase space inventory	~.038	% increase	6,300	GSF
replace space inventory		% replacement		GSF
renovation of existing space only				GSF

# 2. If this Project will replace existing space inventory, how will vacated space be utilized or assigned after this Project is completed?

### Comments:

The University Medical Center (UMC) Addition for Magnetic Resonance Imaging (MRI) project ("Project") will entail a 6,300 gross square foot (GSF) addition. There will be no vacated space upon the completion of this Project as this is a new program.

# 3. Is the proposed Project location consistent with the Campus Master Plan and University Design Standards and the principles contained therein?

Yes No, Campus Master Plan Amendment Required

If Campus Master Plan amendment required, explain:

4. Provide information on classification of new space provided by this Project and latest utilization data on similar type space on campus.

Proposed New Space/Facilities					
	Classification	Number (Spaces/ Rooms)	<b>Capacity</b> (Persons)	Area (NASF)	Existing Space Utilization Data (See Notations)
100	<b>Classroom Facilities</b>				
200	Laboratory Facilities				
300	Office Facilities				
400	Study Facilities				
500	Special Use Facilities				
600	General Use Facilities				
700	Support Facilities				
800	Health Care Facilities				
900	<b>Residential Facilities</b>				
000	Unclassified Facilities				

Data reported on latest fiscal year data available.

Utilization factor based on Scheduled Operating Hours at each Campus - outlined below in notations.

## **Comments/Notations:**

Not applicable. The proposed Project is a new type and use of space; therefore, there is no current campus utilization comparison.

# 5. How will this Project enhance existing/new programs and undergraduate/graduate enrollments?

Estimated new	Funds from	Tuition/Programs	\$	\$3,000,000	Yr
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## Comments:

The capability to study the intact human body, particularly the brain, with MRI is an essential element of propelling The University of Alabama ("University") to becoming a top-ranked research university. Every top research university has a dedicated research ready MRI system ("System"). Having such a System will positively affect faculty research, faculty and graduate student recruitment, as well as enhance undergraduate training. The high-field MRI system will impact the following programs:

- **Sports Medicine**: Having a high-quality System on campus can be used for fast diagnosis of sports injuries. Additionally, the System will allow for expanded research in the study of muscle, joint and bone injury, as well as concussion.
- **Psychology**: Human neuroscience has become critical to psychology. It is important to understand the biology so that the psychological processes can be better characterized, both normal and abnormal. The two fields psychology and neuroscience are so intimately intertwined that many psychology departments around the country have MRI centers housed within them. Having a research MRI facility at the University will allow for the growth of experimental psychology and neuroscience undergraduate and graduate programs on campus. There are currently faculty who are engaged in research in this area but are forced to perform that work at other universities. It will also boost the research of the strong clinical psychologists by being able to study the neural bases of psychological disorders.
- Educational neuroscience: The new educational neuroscience program in the College of Education will benefit significantly from having research dedicated equipment that allows for the study of the neural bases of learning. There are faculty who have previously engaged in neuroimaging work but have been forced to either stop or collaborate with other universities. The acquisition of the MRI system will allow them to expand their research and engage undergraduate students in their work.
- Engineering: Having MRI on campus also opens the door for research that involves the College of Engineering. Imaging and time series analyses, MRI data acquisition and pulse programming, artificial intelligence and machine learning, and instrumentation development are only a few areas related to MR that would involve engineering.

• Undergraduate research opportunities: Human neuroscience is a growing area of interest for undergraduates because it touches several disciplines. Having an MRI system will create an opportunity for undergraduates to learn more about brain imaging, neuroscience and how related research is done.

In summary, human imaging – both body imaging and brain imaging – will transform the research landscape of the campus and will attract top faculty, graduate students and undergraduates. Having this capability is essential to the campus's growth and improved research productivity.

6. Has a facility user group been established to provide input for planning, programming, and design purposes? Yes In-Progress

If yes, list key members of user group:

Sharlene Newman, Ph.D., Director of Alabama Life Research Institute Jason Bigelow, Staff Architect Richard Friend, MD, Dean of the College of Community Health Sciences John Higginbotham, Ph.D., Senior Associate Vice President for Research and Economic Development Dennis McDaniel, Project Manager Russ Mumper, Ph.D., Vice President for Research and Economic Development

Source(s)	New Funds (FY)	Reserves	Status 17
Tuition			
Student Fees			
Investment Income			
Auxiliary Income			
• External			
• Internal			
Education Sales/Services			
• External			
• Internal			
Direct Grants			
Gifts			
Bonds			
Existing Net Assets		\$7,512,720	Pending
Other			
Totals		\$7,512,720	Pending

# 7. Source(s) of funding for Total Project Development Costs.

/7 Approved, allocated, pending

Comments:

The proposed Project will be funded from Research Reserves by the Office of Academic Affairs and the Office for Research and Economic Development in the amount of \$7,512,720.

Operations and Maintenance (O&M) Annual Costs Projections				
Expense	FY 2016 Base Data /8	<b>First Full /YR</b> Occupancy FY <u>2022</u>	Successive Five (5) Year Projections /9	
Maintenance	\$15,121	\$ 16,243	\$ 84,188	
Elevator Service				
Building Repairs	\$ 5,041	\$ 5,415	\$ 28,063	
Building Services	\$27,955	\$ 30,029	\$ 155,636	
Electric, Natural Gas, Steam	\$13,588	\$ 14,596	\$ 75,651	
Chilled Water				
Water and Sewer	\$ 1,225	\$ 1,316	\$ 6,822	
Insurance	\$ 380	\$ 408	\$ 2,116	
Safety Support	\$ 489	\$ 526	\$ 2,724	
Operations Staff Support Funding	\$ 92	\$ 99	\$ 513	
Other – Supply Store expenses				
Totals	\$63,891	\$68,632	\$355,713	

8. Estimate of operations and maintenance (O&M) costs for the initial occupancy year and projections for succeeding five (5) year period.

/8 Latest Fiscal Year Data used as Base Year for Projections

/9 Combined Costs for next Five (5) Years of Occupancy

### Comments:

Base data was obtained from the following University departments: Energy Management, Electrical Maintenance, Facilities Management, Environmental Health and Safety, and Risk Management.

9. Source of funds for projected ongoing operations and maintenance (O&M) costs for this project.

Source(s)	<b>Occupancy Yr</b> /9 (FY <u>2022</u> )	Future Years /10	Status /7
Tuition			
Student Fees			
Investment Income			
Auxiliary Income			
• External			
• Internal			
Educational Sales & Services	\$68,632	\$355,713	
• External			
• Internal			
Direct Grant(s)			
Reallocated Funds /11			
Gifts			
Other			
Total/YR	\$68,632	\$355,713	Pending

/9 Initial Full Yr of Occupancy

/10 Next Five (5) Yrs Occupancy

/11 Funds Reallocated from other sources

/7 Approved, allocated, pending

Comments:

Ongoing O&M costs will be paid from the University annual operating budget.

# 10. Are development expenditures for this Project being used to reduce the current deferred maintenance/facilities renewal liabilities for the Campus?

**\$ N/A** % of Total Development Costs

<u>Comments:</u> Not applicable.

# 11. What other development alternatives were considered in the planning process for this **Project?** /13

### Comments:

Renovation was considered; however, doing so would not be practical due to the MRI equipment point load on the structure and costs to shore up existing floor/structure for the new loads. All existing mechanical, electrical and plumbing in the area of the MRI would also have to be rerouted as necessary to eliminate RF interference and grounding issues. Also, the size of the equipment would require opening-up the exterior wall to accommodate installation of the equipment.

/13 Renovation vs. new construction, adaptive reuse of underutilized buildings, etc.

# 12. Explain how the project will promote adequacy of campus facilities in relation to the University's Mission and scope of programs and/or services:

### Comments:

Research conducted at universities has a dual benefit: it creates the foundation for major advances in a number of areas including health and medicine, economics, and energy; and it helps educate students to be leaders and innovators. As such, the campus must have a strong research infrastructure and a MRI system is a major component of that infrastructure. Having a research MRI system will allow University researchers to create knowledge in a number of domains from autism, concussion, sports injury, neurodegeneration, cancer and learning and memory. Having such capability will also improve graduate training and undergraduate education not only provides research opportunities that utilize the system but also by attracting world-class faculty. This is in complete alignment with the mission of the university – to advance the intellectual condition through the creation of knowledge.

# 13. How does the project correlate to the University's strategic goals?

### Comments:

The proposed MRI facility aligns with each of the University's strategic goals:

1. Provide a premier undergraduate and graduate education that offers a global perspective and is characterized by outstanding teaching, high-quality scholarship and distinctive curricular and co-curricular programs. A state-of-the-art MRI facility will add significantly to the learning, skill development and scholarly activity experienced by both

undergraduate and graduate students in the various fields touched by such a resource. For example, an undergraduate student in Speech and Hearing might have an opportunity to assist with a research project involving MRI and autism. The student will learn how to read results from a MRI and turn them into researchable data. The student then works with a faculty mentor to analyze the data and develops a poster presentation for a regional conference, where they are approached by both a health care facility for potential employment and a research university for a potential graduate research fellowship.

2. Increase the University's productivity and innovation in research, scholarship and creative activities that impact economic and societal development. While faculty with interest and activity in areas that utilize the instrumentation in the proposed facility already reside at the University, having the facility on campus will increase their work exponentially. This in turn will increase the potential for additional collaborative efforts on and off campus.

3. Enrich our learning and work environment by providing an accepting, inclusive community that attracts and supports a diverse faculty, staff and student body. With the potential to learn and work in this state-of-the-art facility it is expected to also be a recruiting tool for potential faculty, staff and students who want take advantage of such resources.

4. Provide opportunities and resources that facilitate work-life balance and enhance the recruitment and retention of outstanding faculty and staff. The College of Community Health Sciences and its University Medical Center, with access to this resource, will be able to improve continuity of the care of employees of the University and their families through faculty/staff clinic, primary care facilities, and the sports medicine facility. Such access is of importance to some of those who are looking for such resources and thereby could improve recruitment and retention.

This project also correlates with at least three of the six strategic themes of the Office for Research and Economic Development's (ORED) Strategic Plan:

1. **Research Environment** – The proposed MRI Facility will have an important role of continuing to create and sustain a strong research environment at the University. In particular, this facility will assist the research environment through the critical components of culture, facilitation, infrastructure, and partnerships.

2. **Alabama Research Institutes (ARIs)** – While this facility may interact with other ARIs, it will have as its primary affiliation with the Alabama Life Research Institute (ALRI). Great research-intensive universities have strong university-wide institutes that serve to invite and coalesce faculty, staff and students from many different departments around a profound research topic or theme, this MRI facility will provide one such theme for the ALRI.

3. **Transformative Initiatives** – Working collaboratively with campus stakeholders, ORED has fully evaluated the merits of investment in this research initiative. The MRI facility has more than exceeded the criteria of being transformative, cross-disciplinary, (pathway to) excellence, return on investment, and societal impact.

# 14. Which of the six University of Alabama System Core Principles does this project support?

### Comments:

This proposed Project supports more than half of the University of Alabama Core Principles:

Principle #1 – Assure that everything done is for the purpose of improving the lives and health of the citizens of the State of Alabama. Once this proposed MRI facility is operational, its activities will support this principle in the immediate, near, and the long term. In the immediate term, with information provided by the MRI, primary care and sports medicine physicians will be able to more favorably diagnose and subsequently treat their patients. In the near term, our health care practitioners and researchers, will work together to investigate neurobehavioral aspects of autism, conduct disorder, brain injury/concussion, and Alzheimer's disease. In the long term, this MRI facility and the collaborators around it have the potential to transform our understanding of seemingly intractable disorders and pave the way for the development of targeted behavioral, environmental, and pharmaceutical interventions for the betterment of the health of the Citizens of the State of Alabama and beyond.

Principle #3 – Be accountable for every dollar we receive while maintaining the highest standards of excellence in every program and endeavor. We know that we are shepherds of the resources provided to us through various means such as tuition dollars, tax dollars, and dollars from research grant and gifts. We will also be shepherds of this resource. In fact, as a result of our investigation and deliberations, we contend that this facility can be self-sustaining in approximately five years.

Principle #5 –Work to help lead a unified approach to improving the economy, opportunities, and comprehensive health care for all citizens of Alabama. The University of Alabama and the associated service and research endeavors as we propose here are economic engines for our city, region, and state. Additionally, as iterated previously, this facility would provide for immediate healthcare as well as develop new interventions for improved care in the future.

Principle #6 – Elevate the status, stature and influence of the University of Alabama System so that we can call on all people devoted to The University of Alabama, UAB, UAH and UAB Health System to unite for common purposes. The faculty who work in this area already have international reputations for their efforts. With access to the resources, and increased potential for collaboration, we expect the efforts, reputation, and the stature of the University to grow exponentially over the next five years.

# 15. What would be the immediate impact on campus programs and enrollment if this project is not approved?

#### Comments:

Should the MRI facility not be approved, there would be several negative consequences. Without this facility, patients, including our own athletes, would continue to go elsewhere for this type of care, which in turn would include not only the loss of the continuity of care within the facility but also the loss of training opportunities in this area for our medical, athletic training and other students on this campus. The concomitant loss of the associated revenue is also a consequence. A MRI facility is one of the sentinel instrument resources for a Carnegie Doctorial Granting University with "very high research activity". While the University of Alabama currently holds that classification, maintaining it would be difficult without such a facility. For example, given the inconvenience and growing frustration that a growing group of researchers at the University has with using facilities elsewhere, there will be a tipping point where it is more advantageous for them to transfer to another institution that has such a facility. Thus, we would lose their contributions to campus programs (education, research, and service) as well as the students they and their programs attract.

# UNIVERSITY MEDICAL CENTER ADDITION FOR MAGNETIC RESONANCE IMAGING

# **PRELIMINARY LOCATION**



# UNIVERSITY MEDICAL CENTER ADDITION FOR MAGNETIC RESONANCE IMAGING

# LOCATION MAP

