

# HOLOGIC, INC.

## PRELIMINARY C-SCAN ROOM PLANS

### TYPICAL HOSPITAL CITY, ST

#### DRAWING LEGEND

| SHEET | DESCRIPTION                    |
|-------|--------------------------------|
| 1.0   | COVER / TITLE                  |
| 2.0   | PRELIMINARY ROOM PLAN          |
| 2.1   | OPTIONAL PRELIMINARY ROOM PLAN |
| 3.0   | SPECIFICATIONS, REQUIREMENTS   |
| 4.0   | GENERAL NOTES                  |

|   |      |                 |        |
|---|------|-----------------|--------|
| <b>HOLOGIC</b><br>Hologic, Inc.,<br>35 Crosby Drive,<br>Bedford, MA 01730 |      | <b>PROPOSED</b> |        |
| REV. AUTHORED BY  | DATE | DOCUMENT NUMBER | REV.   |
| REV. DRAFTED BY   | DATE |                 | 0.1    |
| REV. RELEASE DATE   |      | SIZE            | B ARCH |

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TYPICAL HOSPITAL  
PRELIMINARY ROOM PLAN  
CITY, ST  
THESE DRAWINGS ARE FOR  
REVIEWING PURPOSES ONLY

|                       |                      |                  |                 |
|-----------------------|----------------------|------------------|-----------------|
| DATE:<br>2-17-06      | SCALE:<br>3/8"=1'-0" | DRAWN BY:<br>TOZ | PURCHASE ORDER: |
| PROJECT NO:<br>26***P |                      |                  |                 |
| SHEET NO:<br>1.0      |                      |                  |                 |

### EQUIPMENT LEGEND

N/A = NOT AVAILABLE

| ITEM | DESCRIPTION             | BTU/HR        | WT/LBS          | WIDTH          | DEPTH          | HEIGHT         |
|------|-------------------------|---------------|-----------------|----------------|----------------|----------------|
| 1    | C-SCAN EXTREMITY MRI    | 1,364<br>400W | 2,530<br>1150kg | 57.5"<br>146cm | 26"<br>66cm    | 50.4"<br>128cm |
| 2    | C-SCAN OPERATOR CONSOLE |               | 66<br>30kg      | 42.5"<br>108cm | 31.5"<br>80cm  | 29.1"<br>74cm  |
| 3    | MOVEABLE PATIENT SEAT   | -             | 132<br>60kg     | 25.2"<br>64cm  | 48.4"<br>123cm | 33.9"<br>86cm  |

### ELECTRICAL LEGEND

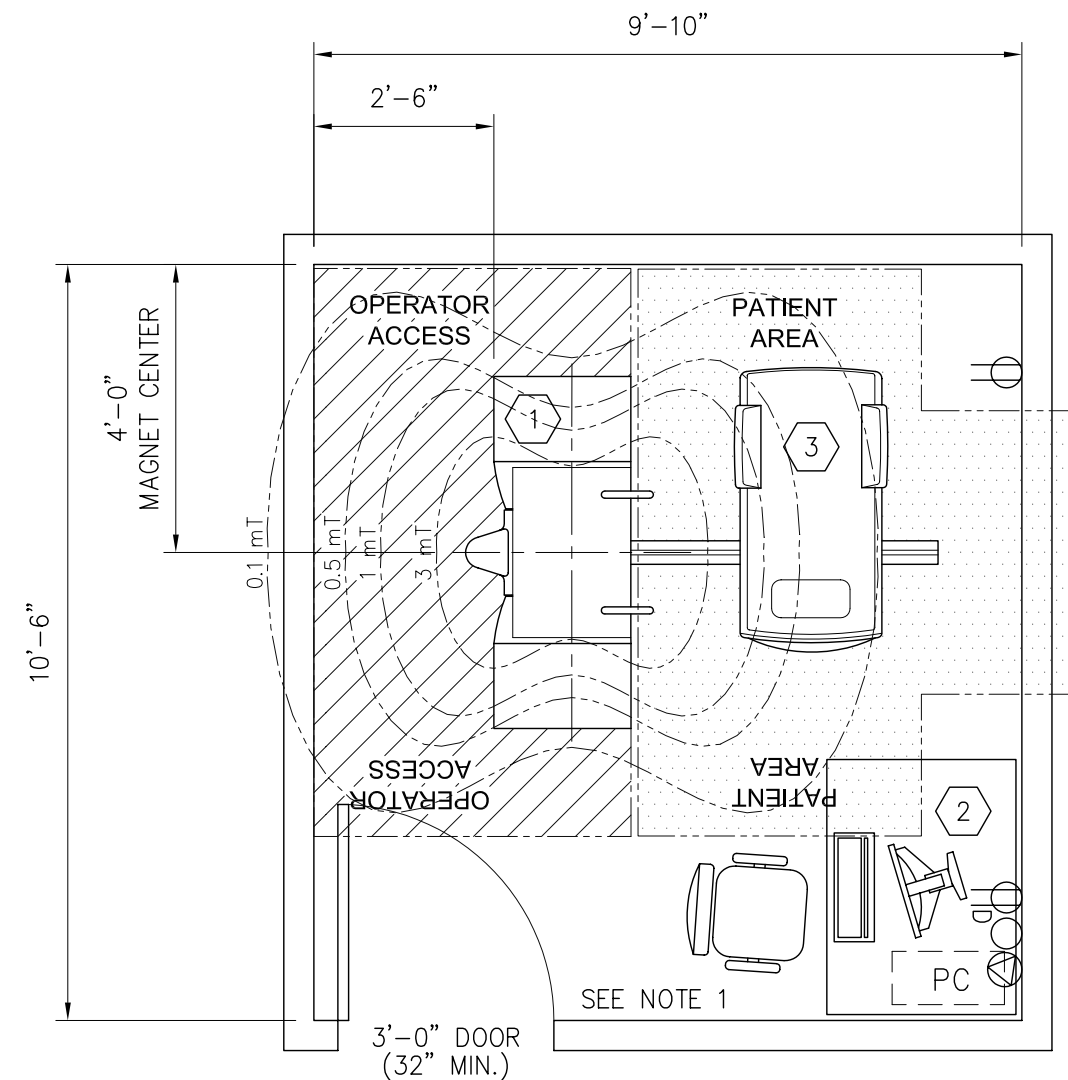
| SYM. | DESCRIPTION   |
|------|---|
|      | DEDICATED 110VAC, 20 AMP, GROUNDED DUPLEX OUTLET.   |
|      | 110/120VAC, 20 AMP DUPLEX OUTLET. (FOR SERVICE/TEST EQUIPMENT).   |
|      | WALL OUTLET BOX FOR CAT 5 CABLE. (HOSPITAL NETWORK CONNECTION). RECOMMEND VPN ACCESS FOR REMOTE DIAGNOSTIC SERVICE. |
|      | DEDICATED OUTSIDE PHONE LINE (CUST. TO DETERMINE REQUIREMENT/LOCATION)  |

### SITE CONDITIONS FOR C-SCAN SYSTEM

|  |  |
|--|--|
| MINIMUM RECOMMENDED ROOM SIZE  | 9'-10" X 10'-6"<br>RF CAGE REQUIRES 10'-6" X 11'-6". EXCLUDING OPERATOR'S CONSOLE.       |
| MINIMUM CEILING HEIGHT   | 7'-0" A.F.F.   |
| RECOMMENDED CEILING HEIGHT   | 8'-0" A.F.F.   |
| <b>AMBIENT ROOM CONDITIONS</b>   |  |
| OPERATING TEMPERATURE RANGE<br>(MAINTAIN TEMPERATURE RANGE<br>24 HRS./DAY, 7 DAYS/WK.) | 68 - 79° F. (20-26° C.)<br>MAXIMUM ALLOWABLE TEMPERATURE CHANGE<br>OF 5°F/ 3°C PER HOUR. |
| OPERATING HUMIDITY RANGE   | 45 - 80% , NON CONDENSING.   |
| PRESSURE   | 700 - 1060 HPA   |
| MINIMUM DOOR/ENTRY WIDTH   | 32"  |
| RECOMMENDED DOOR SIZE  | 3'-0" x 7'-0"  |

NOTE: THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, ELECTRICAL AND MECHANICAL DETAILS, ARE BASED ON THE BEST INFORMATION AVAILABLE FROM THE SITE, IN ADDITION TO THE CUSTOMER'S KNOWN REQUIREMENTS. ARCHITECTURAL OR ELECTRICAL CHANGES, INCLUDING RELOCATION OF EQUIPMENT ILLUSTRATED IN THIS DRAWING, ARE ALLOWED ONLY WITH NOTIFICATION IN WRITING, AND REVIEW BY HOLOGIC SERVICE DEPT.. HOLOGIC RESERVES THE RIGHT TO MAKE CHANGES BASED ON THE CUSTOMER'S WISHES, OR PROBLEMS WITH CONSTRUCTION, ETC.

NOTE 1: HOLOGIC RECOMMENDS REMOTE ACCESS VIA VPN (VIRTUAL PRIVATE NETWORK) TO ACQUISITION WORKSTATION THROUGH FACILITY NETWORK FOR REMOTE DIAGNOSTIC SUPPORT. CONSULT WITH HOLOGIC CONNECTIVITY SPECIALIST REGARDING REQUIREMENTS.



**C-SCAN EQUIPMENT PLAN**  
MINIMUM RECOMMENDED ROOM SIZE

|                |   |      |                 |      |                   |
|----------------|---|------|-----------------|------|-------------------|
| <b>HOLOGIC</b> | REV. AUTHORED BY  | DATE | REV. DRAFTED BY | DATE | REV. RELEASE DATE |
|                | Hologic, Inc.,<br>35 Crosby Drive,<br>Bedford, MA 01750 |      | DOCUMENT NUMBER | 0.1  | SIZE              |

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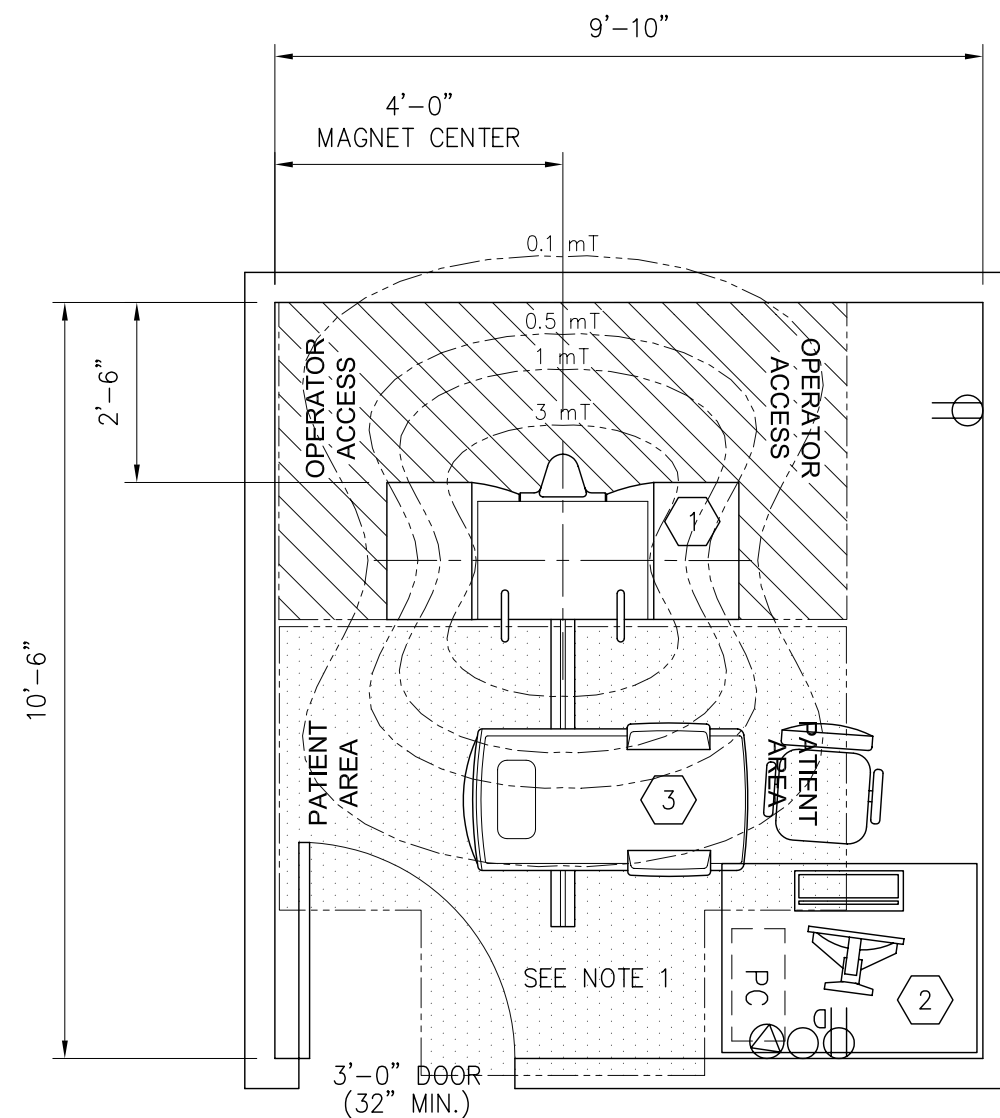
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**C-SCAN EQUIPMENT PLAN**  
**MINIMUM RECOMMENDED ROOM SIZE**

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## ELECTRICAL USE REQUIREMENTS

### REQUIREMENT

|                    |                                   |
|--------------------|-----------------------------------|
| INPUT LINE VOLTAGE | DEDICATED 110VAC, GROUNDED OUTLET |
| INPUT CURRENT      | 20 AMP                            |
| FREQUENCY          | 60 HZ ± 10%                       |
| NUMBER OF PHASES   | SINGLE                            |

## STRUCTURAL REQUIREMENTS

|                         |                                      |
|-------------------------|--------------------------------------|
| FLOOR LOAD REQUIREMENTS | 772 LB/ SQ. FOOT / 350 KG/ SQ. METER |
| TOTAL FLOOR LOAD        | 3306 LB/ 1500 KG                     |

## MAXIMUM RF NOISE

|                                |                             |
|--------------------------------|-----------------------------|
| 40 DB $\mu$ V/M (LINEAR COILS) | 30 DB $\mu$ V/M (DPA COILS) |
|--------------------------------|-----------------------------|

## MAXIMUM VALUES WITHOUT ADDITIONAL COMPENSATION

|               |                      |
|---------------|----------------------|
| DC (< 5 HZ)   | 100 NT PKPK (1 MG)   |
| AC (16.7 HZ)  | 60 NT PKPK (0.1 MG)  |
| AC (50-60 HZ) | 150 NT PKPK (0.6 MG) |

## MAXIMUM VALUES WITH COMPENSATION

|               |                      |
|---------------|----------------------|
| DC (< 5 HZ)   | 3000 NT PKPK (30 MG) |
| AC (16.7 HZ)  | 1500 NT PKPK (15 MG) |
| AC (50-60 HZ) | 2000 NT PKPK (20 MG) |

**NETWORKING NOTES:** SUPPLYING AND INSTALLING NETWORK CONNECTIONS BETWEEN DIAGNOSTIC IMAGING EQUIPMENT AND OTHER NODE CONNECTIONS SHALL BE THE CUSTOMER'S RESPONSIBILITY. CUSTOMER MUST SPECIFY, SUPPLY AND INSTALL PROPER RECEPTACLES, AUI TRANSCEIVERS, CABLING, REPEATERS, ROUTERS, MODEMS, ETC. WHICH ARE CONSISTENT WITH THE SITE NEEDS AND SOUND NETWORK IMPLEMENTATION PRACTICES. ALSO INCLUDED, BUT NOT LIMITED TO, THE CUSTOMER'S RESPONSIBILITY IS THE PURCHASE AND INSTALLATION OF CONDUITS AND / OR RACEWAYS FOR CONTAINMENT AND ROUTING OF NETWORKING CABLES, AS DETERMINED BY SITE CONDITIONS OR REQUIRED BY PREVAILING CODES.

## SUPPLEMENTAL NOTES

ALL ITEMS LISTED BELOW ARE TO BE PROVIDED / DESIGNED BY THE ARCHITECT. THE ARCHITECT SHALL CONSULT WITH THE CUSTOMER FOR ANY ADDITIONAL INFORMATION.

- RECOMMEND LOW VOLTAGE INCANDESCENT LIGHT FIXTURES. INCANDESCENT FIXTURES ARE TO BE DISTRIBUTED AROUND THE ROOM. INCANDESCENT FIXTURES SHOULD NOT BE PROVIDED WITH DIMMER CONTROLS.
- IT IS RECOMMENDED THAT ALL DIAGNOSTIC ROOMS SHOULD HAVE TILE OR VINYL FLOORING.
- A TILE DROP CEILING IS RECOMMENDED FOR ANY DIAGNOSTIC ROOMS.
- ALL CABINETRY WORK IS TO BE DESIGNED AND PROVIDED BY THE ARCHITECT. RECOMMEND ALL COUNTERS HAVE ROUNDED CORNERS.

## COMPONENT SPECIFICATIONS / FEATURES

|                            |  |
|----------------------------|--|
| POWER SUPPLY CABLE         | 1.5MM SQ DIA/ .08" DIA. / 32' LENGTH     |
| MODEM CABLE                | 7' LENGTH                                |
| MAX. CABLE LENGTH - CAMERA | 32' ANALOG / 131' DIGITAL / 328' OPTICAL |

## FRINGE FIELD

FRINGE FIELD DISTANCE FROM THE MAGNETIC CENTER IN THE DIRECTION OF:

| GAUSS | mTESLA | X AXIS | Y AXIS | Z AXIS |
|-------|--------|--------|--------|--------|
| 30    | 3      | N/A    | 17.7"  | 21.7"  |
| 10    | 1      | 19.7"  | 25.6"  | 27.6"  |
| 5     | 0.5    | 29.5"  | 31.5"  | 35.4"  |
| 1     | 0.1    | 39.4"  | 43.3"  | 51.2"  |

## ACOUSTIC NOISE

|                |           |
|----------------|-----------|
| ACOUSTIC NOISE | 50 DB (A) |
|----------------|-----------|

## TRANSPORT



| CONTENT                      | CONTENT WEIGHT | SIZE (L X W X H) |
|------------------------------|----------------|------------------|
| MAGNET UNIT                  | 2,425 LB       | 37" X 33" X 64"  |
| PC UNIT AND ELECTRONIC UNITS | 507 LB         | 58" X 31" X 59"  |
| PATIENTS BED                 | 379 LB         | 55" X 31" X 44"  |
| COVERS                       | 212 LB         | 49" X 31" X 22"  |
| MONITOR                      | 66 LB          | 23" X 31" X 25"  |

## PLATFORM SIZE

198.4"L X 176.4"W X 36.4"H

## TRANSPORT AND STORAGE ENVIRONMENTAL REQUIREMENTS

|                   |                                   |
|-------------------|-----------------------------------|
| TEMPERATURE RANGE | 23° F MINIMUM, 122° F MAXIMUM     |
| HUMIDITY RANGE    | 10 - 95%                          |
| PRESSURE RANGE    | 500 hPA MINIMUM, 1060 hPA MAXIMUM |
| MAXIMUM TILT      | 10%                               |

|  |  |
|--|--|
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## GENERAL NOTES

THE DRAWINGS AND SPECIFICATIONS CONTAINED IN THIS PACKAGE ARE DESIGNED TO CONFORM TO STRUCTURAL FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. HOWEVER, SINCE THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATIONS, THE DRAWINGS ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS. CONSTRUCTION PLANS ARE THE RESPONSIBILITY OF THE CUSTOMER'S ARCHITECT OR ENGINEER, WHO SHALL SEE THAT ALL APPLICABLE CODES AND REGULATIONS ARE COMPLIED WITH. ANY CHANGES MUST BE BROUGHT TO THE ATTENTION OF THE HOLOGIC PLANNING OFFICE OR THE OFFICE OF THE MANUFACTURER'S REPRESENTATIVE SUPERVISING THE PRE-INSTALLATION WORK SITE. ALL FINAL DRAWINGS MUST BE SUBMITTED TO HOLOGIC FOR REVIEW.

ALL DIMENSIONS ARE GIVEN FROM FINISHED SURFACES. WHERE DIMENSIONS ARE NOT GIVEN, FIELD MEASUREMENTS SHOULD BE TAKEN. ALL EXISTING CONDITIONS ARE TO BE VERIFIED BY THE CUSTOMER'S CONTRACTOR, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE HOLOGIC PLANNING OFFICE.

EQUIPMENT PURCHASER SHALL, AT HIS EXPENSE, PROVIDE THE NECESSARY LABOR AND MATERIAL FOR ANY PLUMBING, CARPENTRY, STRUCTURAL AND ELECTRICAL WORK SUCH AS REINFORCEMENT, CONDUITS, WIREWAYS, SWITCHES, ETC., WHICH MAY BE REQUIRED FOR THE INSTALLATION OF MRI EQUIPMENT. HOLOGIC ASSUMES NO RESPONSIBILITY FOR ANY CONSTRUCTION COSTS WHETHER OR NOT RELATED TO THE INSTALLATION OF OUR EQUIPMENT. NO WORK MAY BE PERFORMED OR MATERIALS FURNISHED AT OUR EXPENSE, UNLESS AUTHORIZED BY A SIGNED, FORMAL HOLOGIC PURCHASE ORDER

THE CUSTOMER'S ARCHITECT SHALL VERIFY THAT ALL DOOR AND PASSAGE SIZES ARE ADEQUATE FOR DELIVERY OF EQUIPMENT FROM EXTERIOR, INTO THE ROOM. IF PROFESSIONAL RIGGING SERVICES ARE REQUIRED, THESE SHALL BE PROVIDED AT THE CUSTOMER'S EXPENSE.

ALL NEW FINISHED FLOOR SURFACES SHOULD BE LEVEL. THE FLOOR AREA UNDER THE EQUIPMENT BASES, EXTENDING 3'-0" IN ALL DIRECTIONS AROUND EQUIPMENT BASE, AND/OR RF CAGE MUST BE LEVELLED, USING A CARPENTER'S LEVEL OF APPROPRIATE LENGTH, TO WITHIN 1/16".

THE CUSTOMER'S CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION.

THE DELIVERY AND INSTALLATION OF MRI EQUIPMENT, SHALL NOT COMMENCE UNTIL HOLOGIC HAS RECEIVED NOTIFICATION BY THE CUSTOMER OR THEIR ARCHITECT, THAT THE CONSTRUCTION PHASE HAS BEEN COMPLETED, AND THE ENVIRONMENT IS CLEAN AND DUST FREE.



ALL BUILDING UTILITIES SERVICING THE SITE SHALL BE OPERATIONAL.

THE CUSTOMER AND A HOLOGIC REPRESENTATIVE SHALL INSPECT AND ACCEPT THE ROOM BEFORE WORK BEGINS ON THE INSTALLATION OF EQUIPMENT. IF ROOM PREPARATION IS INCOMPLETE OR INCORRECT, THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE COST OF CORRECTING ANY PROBLEMS.

AS THIS DRAWING CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION, THE CUSTOMER, IN ACCEPTING THIS DRAWING, AGREES NOT TO REPRODUCE, OR DISTRIBUTE IT TO OTHERS, OR TO USE THE INFORMATION CONTAINED THEREIN, IN ANY MANNER DETRIMENTAL TO HOLOGIC SYSTEMS DIVISION.

## ARCHITECTURAL NOTES

1. THIS SET OF DRAWINGS ARE FOR THE PURPOSE OF A LAYOUT PLAN ONLY – NOT FOR CONSTRUCTION. THESE DRAWINGS ARE FOR THE BENEFIT OF PURCHASER'S ARCHITECT OF CHOICE. THE ARCHITECT AND BUILDING CONTRACTORS SHALL CONVERT THIS LAYOUT INTO WORKING AND CONSTRUCTION DRAWINGS OBSERVING ALL PREVAILING CODES. THESE DRAWINGS ARE INTENDED TO PROVIDE THE CONSTRUCTION PARTICIPANTS WITH SPECIFICATION AND CONCEPTUAL INFORMATION ONLY. EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. THIS FLOOR PLAN WAS SCALED FROM PRINTS DRAWN BY OTHERS. ALL CONSTRUCTION PARTICIPANTS SHALL VERIFY AND ADJUST DIMENSIONS. CRITICAL DIMENSIONAL RELATIONSHIPS HAVE BEEN SUPPLIED. IT IS THE RESPONSIBILITY OF ALL CONSTRUCTION PARTICIPANTS TO ADHERE TO THESE DISTANCES. ALL DIMENSIONS ARE FROM FINISHED SURFACES UNLESS OTHERWISE NOTED. ARCHITECT SHALL VERIFY THAT ALL DOOR AND PASSAGEWAY SIZES ARE ADEQUATE FOR TRANSPORTING EQUIPMENT FROM EXTERIOR OF BUILDING INTO RESPECTIVE ROOMS. RECOMMEND COVERING OR REMOVING THRESHOLDS. THE EQUIPMENT REPRESENTATIVES OR THEIR DESIGNER ARE NOT RESPONSIBLE OR LIABLE FOR ANY ERRORS OR OMISSIONS. THOSE MAKING USE OF OR RELYING ON THIS MATERIAL ASSUMES ALL RISKS AND LIABILITY ARISING FROM SUCH USE OR RELIANCE. ALL CONSTRUCTION SHALL COMPLY WITH BUILDING CODES AND REGULATIONS THAT HAVE JURISDICTION.
2. ALL SUPPLY DIFFUSERS SHALL NOT CAUSE DIRECT AIR CURRENTS ON PATIENT, MAGNET, OR OPERATOR. RECOMMEND 2' x 4' LAY-IN CEILING PANELS OF MATERIAL ACCEPTABLE TO CUSTOMER AND APPROVED BY PREVAILING CODES. LIGHTING FIXTURES, VENTS, ETC. TO BE FLUSH WITH FINISHED CEILING. DIMMERS SHOULD NOT BE USED TO CONTROL LIGHT LEVELS.
3. ARCHITECT AND ENGINEERS SHALL USE EXISTING ELECTRICAL AND STRUCTURAL ITEMS WHEN FEASIBLE.
4. ALL WORK EXCEPT INSTALLATION OF DIAGNOSTIC IMAGING EQUIPMENT IS TO BE DONE BY OTHERS THAN THE EQUIPMENT REPRESENTATIVES.
5. SOME CONVENIENCES MAY BE REQUIRED BY CODE OR DESIRED BY CUSTOMER IN EACH RESPECTIVE ROOM (i.e., CASSETTE STORAGE, ILLUMINATORS, CABINETS, SINKS AND COUNTER SPACE). PLEASE CONSULT WITH CUSTOMER WITH REGARDS TO DESIRED CONVENIENCES.
6. ELECTRICAL POWER AND GROUNDING FOR MRI SYSTEM MUST CONFORM TO THE CURRENT REQUIREMENTS FOR ELECTRICALLY SUSCEPTIBLE PATIENT AREAS.
7. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC PLUMBING OR HVAC CONSIDERATIONS AFFECTED BY THE SCOPE OF THIS WORK. ENGINEERING DRAWINGS TO BE DONE BY OTHERS. ELECTRICAL AND MECHANICAL DESIGNERS SHALL BE REQUIRED TO REVIEW THESE DRAWINGS TO HELP THEM GAIN AN UNDERSTANDING OF THE CONCEPT OF THIS WORK AND TO HELP MINIMIZE CONFLICTING CONSTRUCTION EFFORTS. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC BUILDING STRUCTURAL INTEGRITY. A PROFESSIONAL STRUCTURAL ENGINEER SHALL INSPECT FIELD CONDITIONS TO ENSURE THAT THE FACILITY SUPPORT STRUCTURE (e.g. WALLS, FLOORS, CEILINGS) CAN PROVIDE ADEQUATE SUPPORT FOR THE DIAGNOSTIC IMAGING EQUIPMENT DESCRIBED IN THE EQUIPMENT SCHEDULE. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC SEISMIC ANCHORAGE CONSIDERATIONS AFFECTED BY THE SCOPE OF THIS WORK. ALL EXPENSES ASSOCIATED WITH SEISMIC TESTING AND COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE CUSTOMER (END USER) OR THEIR RESPECTIVE CONTRACTORS OF CHOICE. IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER CONSULTS WITH A PROFESSIONAL STRUCTURAL ENGINEER FAMILIAR WITH ALL PREVAILING SEISMIC REQUIREMENTS. ENGINEERING DRAWINGS BY OTHERS.
8. THE EQUIPMENT REPRESENTATIVES PRIOR TO CHANGES MUST APPROVE DEVIATION FROM THESE PLANS IN WRITING.

|   |  |                 |
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