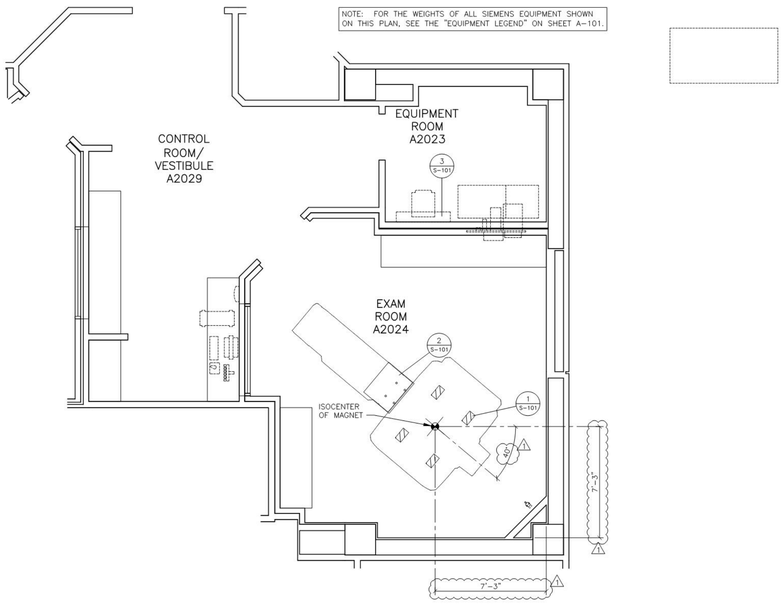
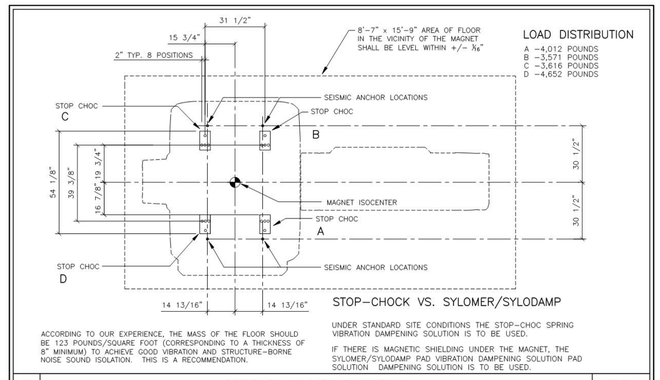
FULLY SPRINKLERED



STRUCTURAL FLOOR PLAN

SCALE: 1/4" = 1'-0"



LOAD DISTRIBUTION
A -4,012 POUNDS
B -3,571 POUNDS
C -3,616 POUNDS
D -4,652 POUNDS

ACCORDING TO OUR EXPERIENCE, THE MASS OF THE FLOOR SHOULD BE 123 POUNDS/SQUARE FOOT (CORRESPONDING TO A THICKNESS OF 8" MINIMUM) TO ACHIEVE GOOD VIBRATION AND STRUCTURE-BORNE NOISE SOUND ISOLATION. THIS IS A RECOMMENDATION.

STOP-CHOCK VS. SYLOMER/SYLODAMP

UNDER STANDARD SITE CONDITIONS THE STOP-CHOC SPRING VIBRATION DAMPENING SOLUTION IS TO BE USED.

IF THERE IS MAGNETIC SHIELDING UNDER THE MAGNET, THE SYLOMER/SYLODAMP PAD VIBRATION DAMPENING SOLUTION PAD SOLUTION DAMPENING SOLUTION IS TO BE USED.

1 SKYRA BASE DETAIL — SCALE: 3/8"=1'-0"

STRUCTURAL NOTES

1) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.

2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.

3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.

4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.

5) MOUNTING PLATES, FRAMES, AND HARDWARE SUPPLIED BY SIEMENS AS DETAILED IN THIS DRAWING SET ARE INSTALLED BY SIEMENS UNLESS OTHERWISE REQUIRED. ANY DEVIATION FROM THE PROVIDED MATERIALS OR MOUNTING METHODS MUST BE DESIGNED AND DOCUMENTED BY THE STRUCTURAL ENGINEER OF RECORD. ALTERNATE MOUNTING MATERIALS (I.E. ANCHORS, THREADED ROD, BACKING PLATES, ETC.) MUST BE SUPPLIED BY THE CUSTOMER/CONTRACTOR. SIEMENS MAY REQUIRE ASSISTANCE FROM THE CUSTOMER/CONTRACTOR WITH INSTALLATION WHEN UTILIZING ALTERNATE MOUNTING MATERIALS.

6) ALL CEILING FIXTURES (I.E. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.

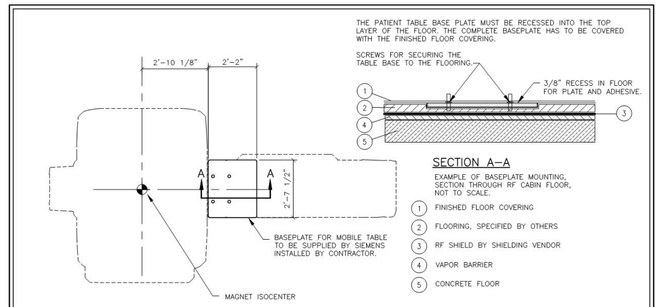
7) THE BOTTOM SIDE OF THE UNISTRUT CEILING GRID AND ANY CEILING MOUNTED SUPPORT PLATES ARE TO BE INSTALLED FLUSH WITH THE FINISHED CEILING. THE CUSTOMER/CONTRACTOR SHALL ALSO PROVIDE COVERSTRIPS FOR THE UNISTRUT.

8) THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUCTURAL PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.

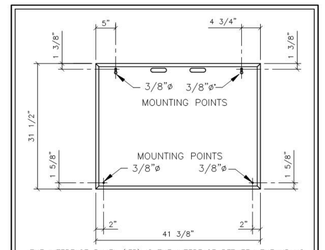
9) THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL AND CEILING STRUCTURES IN ACCORDANCE WITH THE WEIGHTS, MOMENTS AND FORCES AS SHOWN ON OUR STRUCTURAL CALCULATIONS, OR INFORMATION.IN CONSIDERATION OF FORCES AS DETERMINED PER LOCAL GOVERNING BUILDING CODES.

FLOOR LOADING TABLE

	POUNDS
MAGNET AND PATIENT TABLE	16,381
MAGNET ONLY FLOOR LOADING	15,851
LOAD DISTRIBUTION PER SHIM PLATE	SEE DETAIL 1
PATIENT	550



2 BASEPLATE FOR MOBILE PATIENT TABLE — SCALE: 3/8"=1'-0"



THE INTERFACE PANEL (IFP) IS THE INTERFACE BETWEEN THE KRAUS CHILLER AND THE ACC CABINET OF THE MR SYSTEM, AND IS THE COLD WATER SUPPLY FOR THE COLD HEAD COMPRESSOR. IT IS DELIVERED WITH THE CHILLER PRIOR TO THE DELIVERY OF THE MAGNET SYSTEM. THE IFP, WHICH WEIGHS 88 POUNDS, IS TO BE MOUNTED TO THE WALL IN THE EQUIPMENT ROOM IN SHOWN LOCATION BY THE CUSTOMER/CONTRACTOR.

MOUNTING HARDWARE AND SUPPORT STRUCTURE TO BE SUPPLIED LOCALLY.

THE IFP SHALL BE LOCATED SO THAT THE 16 FOOT HOSE LENGTH FROM THE IFP TO THE ACC IS NOT EXCEEDED.

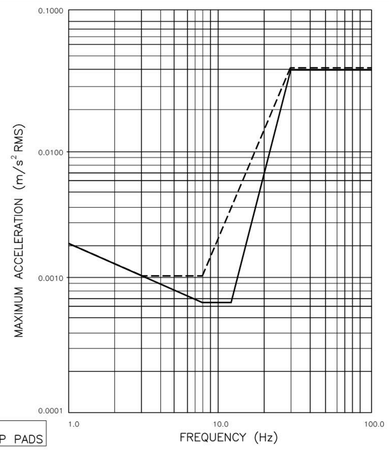
3 IFP MOUNTING — NO SCALE

VIBRATION OF THE SITE HAS THE ABILITY TO AFFECT THE STABILITY AND HOMOGENEITY OF THE MAGNETIC FIELD. THEREFORE EXTERNAL VIBRATIONS OR SHOCKS AFFECTING THE MAGNET MAY DEGRADE IMAGE QUALITY. IN THE THREE SPATIAL ORIENTATIONS THE BUILDING MUST NOT EXCEED ACCELERATION OF 0.001 m/s^2 OR -80 dB(G) G=9.81 m/s^2

THE REQUIREMENT FOR a_{max} IS MEASURED AS MAXIMUM RMS VALUE PER FREQUENCY COMPONENT <0.5Hz IN THE FOURIER TRANSFORMATION OF THE RECORDED SIGNAL (SPECTRUM),

THE VIBRATION LEVEL OF CONTINUOUS VIBRATIONS (CAUSED BY AIR CONDITIONER, COMPRESSOR, ETC.) AT THE LOCATION OF THE MAGNET MUST NOT EXCEED THE SPECIFIED VALUES. FOR ALL NON-CONTINUOUS TRANSIENT VIBRATIONS THE FIGURES SHOULD BE MULTIPLIED BY 4 (OR 12 dB).

CONTACT SIEMENS PROJECT MANAGER FOR MORE DETAILS.



– PERMISSIBLE ACCELERATION — SCALE: NONE

CEILING HEIGHTS

MAGNET EXAMINATION ROOM:	7'-11" MINIMUM
EQUIPMENT ROOM:	7'-3" MINIMUM WITH RESTRICTION
ALL ANCILLARY AREAS:	6'-11" MINIMUM

SKYRA REV 9

SYM	DATE	DESCRIPTION
1	11/03/15	CHANGED ISO CENTER LOCATION PER CUSTOMER
2	10/22/15	R101R(B) DATED 09/29/15 APPROVED BY CUSTOMER FOR FINALS

—ISSUE BLOCK—

PROJECT MANAGER: TRENT CHILDRESS
TEL: (317) 341-1094 EXT:
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SIEMENS

CINCINNATI VAMC
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MRI SUITE 2024 – MAGNETOM SKYRA W/MOBILE TABLE

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PROJECT #: 1400888
SHEET 5 OF 10
DRAWN BY: R. SUTHERS
SCALE: AS NOTED
REF. #: 30182993
DATE: 11/03/15
SHEET: S-101

ATTENTION:

– THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
– THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.
– IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.
– ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
– THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

Revisions	Date

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Drawing Title: VENDOR EQUIPMENT (FOR REFERENCE ONLY)
Approved: Project Director

Project Title: Building 01-Imaging Center
Location: Cincinnati, Ohio
Date: 10/30/2015 | Checked: PFB | Drawn: PFB

Project No. VA Project No. 539-CSI-201 PFB Project No. 3585.00
Building Number: 01- Imaging Center
Drawing Number: QH-005
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs