# HOLOGIC, INC. 

FINAL 'HORIZON - W' ROOM PLANS
TYPICAL HOSPITAL CITY, STATE


## NOTES

NOTE 1: ALL RADIATION PROTECTION TO BE DESIGNED BY, OR APPROVED BY, CUSTOMER'S LICENSED RADIATION PHYSICIST.
NOTE 2: EQUIPMENT INSTALLERS WILL USE EXISTING WIREWAYS WHEREVER POSSIBLE. HOSPITAL ENGINEERING DEPARTMENT TO PROVIDE HOLOGIC SITE PLANNING SHOWING WIREWAY LOCATIONS AND ROUTING ABOVE CEIUING AND BELOW FLOOR

## SITE CONDITIONS FOR 'HORIZON W' SYSTEM

MINIMUM CEILING HEIGHT
RECOMMENDED CEILING HEIGHT
AMBIENT CONDITIONS:
OPERATING TEMPERATURE
RELATIVE HUMIDITY

$$
\begin{aligned}
& 7^{\prime}-0 " \text { A.F.F. } \\
& 8^{\prime}-0 " \text { A.F.F. }
\end{aligned}
$$

$59-90^{\circ} \mathrm{F}\left(15-32^{\circ} \mathrm{C}\right)$
$20-80 \%$, NON CONDENSING
MAXIMUM ALLOWABLE CHANGE, $10 \%$ /HOUR

EQUIPMENT ENTRY REQUIREMENTS:
$\begin{array}{ll}\text { MINMUM RECOMMENDED CORRIDOR WIDTH } & 4^{\prime}-0 "(122 \mathrm{~cm}) \\ \text { MINMUM DOOR WIDTH } & 2^{\prime}, 6^{\prime \prime} \times 6^{\prime}-3^{\prime \prime}(76 \mathrm{~cm} \times 191 \mathrm{~cm})\end{array}$
RECOMMENDED DOOR WIDTH

$$
\begin{aligned}
& 2^{\prime}-6^{\prime \prime} \times 6^{\prime}-3^{\prime \prime \prime}(76 \mathrm{~cm} \times 191 \mathrm{~cm}) \\
& 3^{\prime}-0^{\prime \prime} \times 7^{\prime}-0^{\prime \prime}(91 \mathrm{~cm} \times 213 \mathrm{~cm})
\end{aligned}
$$

NOTE: THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, ELECTRICAL AND MECHANICAL detalls, 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 B HOLOGIC SERVICE DEPT.. HOLOGIC RESERVES THE RIGHT TO MAKE CHANGES BASED ON THE CUSTOMER'S WISHES, OR PROBLEMS WITH CONSTRUCTION, ETC.



* (TO BE SUPPLIED AND INSTALLED BY HOSPITAL'S GENERAL CONTRACTOR.)


STRUCTURAL PLAN

## ELECTRICAL LEGEND

SUPPLIED AND INSTALLED BY HOSPITAL'S ELECTRICAL CONTRACTOR

| ITEM | DESCRIPTION |
| :---: | :---: |
| $\odot$ | DEDICATED 100 - 120VAC, 20 AMP HOSPITAL GRADE DUPLEX OUTLET WITH ISOLATED GROUND. |
| (1) | WALL OUTLET BOX FOR CAT 5 CAble. (hospital network connection) |
| (1) | dedicated outside phone line. (CUSTOMer to determine requirement/Location) |
| - PB | $4^{\prime \prime} \times 2^{\prime \prime} \times 2^{\prime \prime}$ PULLBOX WITH COVER, FLUSH MOUNTED APPROXIMATELY 6 - 12" A.F.F. NEAR HORIZON TABLE. PROVIDE $3 / 4$ " CONDUIT FROM WARNING LIGHTS. (USED ONLY WHERE REQUIRED BY LOCAL CODE OR CUSTOMER PREFERENCE) |
| - - - - | WARNING LIGHTS, SEE DETAIL SHEET 3.1. <br> (USED ONLY WHERE REQUIRED BY LOCAL CODE OR CUSTOMER PREFERENCE) |



ELECTRICAL PLAN

## ELECTRICAL USE REQUIREMENTS

| REQUIREMENT | TABLE |  |
| :--- | :--- | :--- |
| INPUT LINE VOLTAGE | 100 V 120 V | 230 V |
| INPUT CURRENT | 16.014 .088 .0 |  |
| FREQUENCY | $50,60 \mathrm{HZ}$ |  |
| NUMBER OF PHASES | SINGLE |  |

PHYSICAL AND ENVIRONMENTAL REQUIREMENTS
perating temperature range OPERATING HUMIDITY RANGE

OVERALL DIMENSIONS
$15^{\circ} \mathrm{C}$ TO $32^{\circ} \mathrm{C}$ ( $59^{\circ} \mathrm{F}$ to $90^{\circ} \mathrm{F}$ )
$20 \%$ TO $80 \%$ NON-CONDENSING
$202 \mathrm{~cm}(79.5 ") \mathrm{W} \times 126 \mathrm{~cm}$ (49.5") D
$\times 142 \mathrm{~cm}\left(56^{\prime \prime}\right) \mathrm{H}$


TYPICAL DOOR SWITCH / WARNING LIGHT DETAIL (ONLY USED WHERE REQUIRED BY LOCAL CODE OR CUSTOMER PREFERENCE)

DESCRIPTION:
WARNING LIGH $T=4$ " $(10 \mathrm{~cm})$ STANDARD BOX WITH "X-RAY ON"
OR RED WARNING LAMP OVER DOOR. USE APPROVED FIXTURES - INCANDESCENT OR LED REFFR TO LOCAL CODES
(SUPPLIED \& INSTALLED BY HOSPITAL'S ELECTRICAL CONTRACTOR.)

## DICOM, PACS, LANS/WANS, ETHERNET, MODEMS

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 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

## HORIZON SYSTEM SPECIFICATIONS

## SYSTEM

INPUT LINE . . . . . . 100-120VAC, 20 AMP 50-60 HZ
MAXIMUM APPARENT LINE RESISTANCE (OHMS) . 32 $230 \mathrm{VAC}, 20$ AMP, $50-60 \mathrm{HZ}$
MAXIMUM APPARENT LINE RESISTANCE (OHMS) 1.28

CUSTOMER MUST CONTACT A QUALIFIED RADIATION PHYSICIST TO DETERMINE IF PROTECTION IS NEEDED FOR ROOM.

## GROUNDING NOTES

* FIELD VERIFY ACTUAL APPLICATION WITH HOLOGIC'S FIELD REP

THE SOURCE GROUND CONNECTION FOR THIS SYSTEM WILL BE THE GROUND SIDE OF THE NEUTRA TO GROUND BONDING POINT FOR THE POWER DELIVERED TO THIS SYSTEM. THE SOURCE WILL BE EITHER THE MAIN SERVICE ENTRANCE PANEL OR A SEPARATELY DERIVED SOURCE, SUCH AS AN ISOLATION TRANSFORMER. SYSTEM LOCALIZED COLD WATER PIPING OR BUILDING STEEL ARE NOT ACCEPTABLE GROUND SOURCE CONNECTION POINTS. THE SOURCE GROUND CONDUCTOR SHALL BE OF THE SAME SIZE AND TYPE AS THE PHASE CONDUCTORS SUPPLYING THE SYSTEM.

## 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 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 RESPONSIBILITY OF THE CUSTOMER'S ARCHITECT OR ENGINEER, WHO SHALL SE
THAT ALL APPLICABLE CODES AND REGULATIONS ARE COMPLIED WITH. ANY THAT ALL APPLICABLE CODES AND REGULATIONS ARE COMPLIED WITH. ANY CHANGES MUST BE BROUGHT TO THE ATIENTION OF THE HOLOGIC PLANNING THE PRE-INSTALLATION WORK SITE. ALL FINAL DRAWINGS MUST BE THE PRE-INSTALLATION WORK SITE.
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 X-RAY ROOM COSTS WHFTHER OR NOT RFIATED TO THF INSTALIATION OF OUR FQUPMENT NO WORK MAY BE PERFORMED OR MATERIALS FURNISHED AT OUR EXPENSE, UNLESS AUTHORIZED BY A SIGNED, FORMAL HOLOGIC PURCHASE ORDER

THE CUSTOMER, AT HIS EXPENSE, SHALL EMPLOY A REGISTERED PHYSICIST TO SPECIFY RADIATION PROTECTION.

THE CUSTOMER'S ARCHITECT SHALL VERIFY THAT ALL DOOR AND PASSAGE SIZES ARE ADEQUATE FOR DELIVERY OF EQUIPMENT FROM EXTERIOR, INTO THE ROOM. F 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 $3^{\prime}-0^{\prime \prime}$ IN ALL DIRECTIONS AROUND EACH BASE, MUST BE LEVELLED, USING A CARPENTER'S LEVEL OF APPROPRIATE LENGTH, TO WITHIN $1 / 16^{\prime \prime}$.

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

THE DELIVERY AND INSTALLATION OF RADIOLOGY EQUIPMENT, SHALL NOT COMMENCE UNTLL HOLOGIC HAS RECEIVED NOTIFICATION BY THE CUSTOMER OR HIS 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 BEPARE WORK BEGINS ON THE INSTALLATCT THE EQUTMEN'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 SUPPUIED. IT IS THE RESPONSIBULITY OF CRIICAL DIMENSIONAL RELATIONSHIPS HAVE BEEN THESE DISTANCES ALL DIMENSIONS ARE FROM FINISHED SURFACES UNLFSS OTHERWISE NOTED. ARCHITECT SHALL VERIFY THAT ALL DOOR AND PASSAGEWAY SIZES ARF ADFQUATE 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. ARCHITECT AND ENGINEERS SHALL USE EXISTING ELECTRICAL AND STRUCTURAL ITEMS WHEN FEASIBLE.
3. ALL WORK EXCEPT INSTALLATION OF DIAGNOSTIC IMAGING EQUIPMENT IS TO BE DONE BY OTHERS THAN THE EQUIPMENT REPRESENTATIVES.
4. SOME CONVENIENCES MAY BE REQUIRED BY CODE OR DESIRED BY CUSTOMER IN EACH RESPECTIVE ROOM (ie, CASSETTE STORAGE, ILLUMINATORS, CABINETS, SINKS AND COUNTER SPACE). PLEASE CONSULT WITH CUSTOMER WITH REGARDS TO DESIRED CONVENIENCES.
5. ELECTRICAL POWER FOR X-RAY EQUIPMENT REQUIRES VERY LARGE CURRENTS FOR EXTREMELY SHORT TIMES WHILE THE SUPPLY VOLTAGE MUST REMAIN RELATIVELY STABLE REFER TO ELECTRICAL NOTES. GROUNDING MUST CONFORM TO THE CURRENT REQUIREMENTS FOR ELECTRICALLY SUSCEPTIBLE PATIENT AREAS.
6. 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 O 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 MAGING EQUIPMENT DESCRIBED IN THE EQUIPMENT SCHEDULE. NO ATTENTION HAS BEEN GHEN TO SPECIFIC SEISMIC ANCHORAGE CONSIDERATIONS AFFECTED BY THE SCOPE OF THE RESPONSIBIIITY OF THE CUSTOMER (END USER) OR THEIR RESPECTIVE CONTRACTORS THE RESPONSIBILITY OF THE CUSTOMER (END USER) OR THEIR RESPECTIVE CONTRAC
OF CHOICE. IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER CONSULTS WITH A OF CHOICE. IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER CONSULTS WIT PROFESSIONAL STRUCTURAL ENGINEER FAMILIAR WITH
7. THE EQUIPMENT REPRESENTATIVES PRIOR TO CHANGES MUST APPROVE DEVIATION FROM THESE PLANS IN WRITING.
