

**GENERAL NOTES**

**CUSTOMER / CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED.**

**GENERAL**

A. TOSHIBA RESERVES THE RIGHT TO CHANGE THESE DRAWINGS AND SPECIFICATIONS WITHOUT NOTICE.

**CODES AND PERMITS**

B. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, AND ORDINANCES ARE COMPLIED WITH.

C. THE SITE MUST BE 100% COMPLETE, CLEAN, AND FREE OF DUST, PRIOR TO EQUIPMENT DELIVERY AND INSTALLATION COMMENCEMENT. CUSTOMER/CONTRACTOR AND TOSHIBA INSTALLATION PROJECT MANAGER MUST COMPLETE A SITE WALK THROUGH 1 WEEK PRIOR TO DELIVERY TO DETERMINE ACCEPTABILITY FOR DELIVERY OF TOSHIBA EQUIPMENT.

D. SUPPLY/INSTALL ANY CABINETRY REQUIRED TO HOUSE ANCILLARY EQUIPMENT SUCH AS RECORDERS, MONITORS, AND KEYBOARDS.

E. PROVIDE ADEQUATE VENTILATION WITHIN CABINETRY AND INSTALL AXIAL FANS ON THE TOP, SIDE, OR BACK OF CABINETS, IF REQUIRED.

F. SPECIFICATIONS FOR EQUIPMENT ITEMS NOT PURCHASED THROUGH TOSHIBA MUST BE OBTAINED FROM THE VENDOR/MANUFACTURER AND INCLUDED IN THE DESIGN TOTALS.

G. DESIGN, FABRICATE, AND INSTALL MEDICAL GAS PEDESTAL, IF REQUIRED. CONSULT WITH TOSHIBA INSTALLATION PROJECT MANAGER FOR SUITABLE LOCATIONS.

H. AN OPERATING PHONE MUST BE AVAILABLE IN THE CONTROL ROOM AT THE TIME TOSHIBA EQUIPMENT INSTALLATION BEGINS.

I. PROVIDE ADEQUATE LIGHTING FOR SERVICING OF EQUIPMENT IN ALL AREAS OF THIS INSTALLATION.

J. ANY AND ALL COSTS REQUIRED FOR THE ENGINEERING AND/OR REMOVAL OF ANY HAZARDOUS MATERIALS, SUCH AS ASBESTOS. IN THE EVENT SUCH IS DISCOVERED PRIOR TO OR DURING INSTALLATION OF THIS EQUIPMENT.

K. SUPPLY/INSTALL ALL MATERIALS SPECIFIED IN THE TOSHIBA SITE PLANS, SUCH AS CASEWORK, COUNTERTOPS, CABINETS, AND SINKS.

**PLUMBING**

L. PLUMBING IS NOT REQUIRED FOR THIS TOSHIBA EQUIPMENT.

M. IT IS RECOMMENDED THAT A SINK BE PROVIDED FOR USE BY PERSONNEL.

**SITE CONDITIONS**

N. DIMENSIONS TO WALL AND OR OTHER ROOM FEATURES, EXCEPT FOR NOTED COLUMN AND BEAM CENTER LINES, SHALL BE FROM FINISHED SURFACES.

O. CT GANTRY SHOULD NOT BE INSTALLED WITHIN 0.5 MAGNETIC GAUSS FIELD.

P. THE WINDOW FOR MONITORING THE SCAN ROOM SHOULD BE IN FRONT OR ON THE SIDE OF THE CONSOLE DESK. THE LOWEST WINDOW FRAME SHOULD BE 36" ABOVE THE FLOOR FOR EASY PATIENT MONITORING.

Q. A DOOR BETWEEN THE SCAN AND CONTROL ROOM IS RECOMMENDED.

R. THE INSTALLATION ALTITUDE SHOULD BE NO MORE THAN 3,280 FT. (1,000 M) ABOVE SEA LEVEL. PRIOR CONSULTATION IS REQUIRED FOR INSTALLATIONS HIGHER THAN 3,280 FT. (1,000 M).

**TOSHIBA EQUIPMENT TRANSPORT REQUIREMENTS**

S. EQUIPMENT INGRESS ROUTE MUST BE CHECKED TO ENSURE THE LARGEST AND HEAVIEST ITEMS OF EQUIPMENT CAN BE ACCOMMODATED, PRIOR TO EQUIPMENT DELIVERY. DIMENSIONS OF DOORWAYS SHOULD BE NO LESS THAN 4'-0" CLEAR IN WIDTH. CONTACT THE TOSHIBA INSTALLATION PROJECT MANAGER FOR DETAILS PERTAINING TO THE LARGEST AND HEAVIEST COMPONENTS FOR THIS INSTALLATION (SEE DETAIL #3 / SHEET GN2).

**NETWORKING REQUIREMENTS**

T. NETWORK REQUIREMENTS WILL VARY BY SITE. TOSHIBA REPRESENTATIVE WILL REQUIRE DICOM DEVICE INFORMATION, ADDITIONAL I.P. ADDRESSES, AND I.T. DEPARTMENT CONTACT INFORMATION PRIOR TO INSTALLATION.

**STRUCTURAL NOTES**

**CUSTOMER / CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED.**

**GENERAL**

A. THESE SITE PLANS ARE INTENDED TO DEPICT ONLY A CONCEPT OF THE STRUCTURE REQUIRED FOR THE TOSHIBA EQUIPMENT. THE DESIGN OF ALL STRUCTURAL ELEMENTS MUST BE SPECIFIED BY A LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH TOSHIBA SPECIFICATIONS AND ALL APPLICABLE CODES.

B. THE CUSTOMER/CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS AND SITE CONDITIONS PRIOR TO COMMENCING CONSTRUCTION. THE TOSHIBA INSTALLATION PROJECT MANAGER SHALL BE NOTIFIED IN WRITING OF ANY FIELD CONDITIONS ENCOUNTERED WHICH ARE CONTRADICTORY TO THOSE SHOWN IN THE TOSHIBA SITE PLANS.

C. THE DEMOLITION, FABRICATION, AND ERECTION OF SUPPORT STRUCTURES AS WELL AS ANCHORING AND THRU-BOLTING FOR TOSHIBA EQUIPMENT SHALL BE PERFORMED BY THE CUSTOMER/CONTRACTOR IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS SET FORTH BY THE STRUCTURAL ENGINEER OF RECORD.

D. DUE TO THE DYNAMIC NATURE OF THE LOAD, BOTH HORIZONTAL AND VERTICAL ACCELERATIONS SHOULD BE INCLUDED IN THE DESIGN CALCULATIONS FOR THE SUPPORT STRUCTURE AS WELL AS ANCHORING AND THRU-BOLTING FOR THE TOSHIBA EQUIPMENT (FOR EXAMPLE, CEILING MOUNTED INJECTORS OR MONITORS).

E. IN THE INTEREST OF SAFETY TOSHIBA RESERVES THE RIGHT TO DELAY INSTALLATION COMMENCEMENT UNTIL STRUCTURAL DESIGN DRAWINGS STAMPED BY THE STRUCTURAL ENGINEER OF RECORD HAVE BEEN PROVIDED.

F. UNDER NO CIRCUMSTANCE SHOULD THE TOSHIBA EQUIPMENT BE INSTALLED ON A WOOD FLOOR.

G. FOR SLAB ON GRADE INSTALLATIONS, CONSULT INSTALLATION PROJECT MANAGER IF SLAB IS LESS THAN 6" IN DEPTH.

**CEILING STRUCTURAL SYSTEMS**

H. IN ORDER TO AVOID COLLISION WITH MOVEABLE TOSHIBA CEILING MOUNTED EQUIPMENT, ALL CEILING FIXTURES SUCH AS LAMPS, SMOKE DETECTORS, SPRINKLERS, ETC. MUST BE FLUSH MOUNTED (SEE DETAIL #2 / SHEET GN2).

**UNISTRUT NOTE**

I. CEILING UNISTRUT SUPPORT STRUCTURES TO BE DESIGNED BY OTHERS BASED ON SPECIFICATIONS SHOWN ON TOSHIBA SITE PLANS (IF APPLICABLE).

J. UNISTRUT OR EQUIVALENT CHANNEL SUPPORT SYSTEM TO BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR (IF APPLICABLE).

K. UNISTRUT ARE TO BE P1001 OR P5001 OR EQUIVALENT, MOUNTED FLUSH WITH FINISHED CEILING. ALL UNISTRUT ARE TO BE MOUNTED PARALLEL AND LEVEL WITH A MAXIMUM DEVIATION OF 1/16". UNISTRUT IS TO BE CAPABLE OF SUPPORTING LOAD REQUIREMENTS OF TOSHIBA EQUIPMENT. UNISTRUT LOAD REQUIREMENTS AND DESIGN ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD.

**ELECTRICAL NOTES**

**CUSTOMER / CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED.**

A. THESE SITE PLANS ARE INTENDED TO DEPICT ONLY A CONCEPT OF THE ELECTRICAL REQUIREMENTS FOR TOSHIBA EQUIPMENT. THE DESIGN OF ALL ELECTRICAL ELEMENTS MUST BE SPECIFIED BY A LICENSED ELECTRICAL ENGINEER IN ACCORDANCE WITH TOSHIBA SPECIFICATIONS AND ALL APPLICABLE CODES.

B. IN ACCORDANCE WITH N.E.C. ARTICLE 517-72(B), THE EQUIPMENT CIRCUIT BREAKER(S) DISCONNECT MUST BE LOCATED SO THAT THEY SHALL BE OPERABLE FROM A LOCATION READILY ACCESSIBLE FROM THE CONTROL AREA. IF THIS IS IMPOSSIBLE OR IMPRACTICAL, THE USE OF A SHUNT TRIP TYPE BREAKER WILL BE NECESSARY TO SATISFY THIS REQUIREMENT. THE EMERGENCY POWER OFF BUTTON FOR THE SHUNT TRIP SHOULD BE LOCATED IN THE CONTROL AREA.

C. THE CUSTOMER/CONTRACTOR IS TO SUPPLY AND INSTALL ALL CIRCUIT BREAKERS, CONDUITS, JUNCTION BOXES, DUCTS, ETC. SPECIFIED HEREIN.

D. THE TOSHIBA SITE PLANS DO NOT SPECIFY ELECTRICAL REQUIREMENTS FOR EQUIPMENT NOT SOLD BY TOSHIBA.

E. TOSHIBA WILL SUPPLY INTERCONNECTING CABLES FOR THE TOSHIBA EQUIPMENT. TOSHIBA WILL INSTALL IF LOCAL TRADE LABOR PERMITS.

F. EXCEPT FOR THEIR USE IN POWER LINE CONNECTIONS TO EQUIPMENT CABINETS, FLEXIBLE CONDUIT SHALL NOT BE USED IN THIS INSTALLATION. ONLY FACTORY CONDUIT ELBOWS SHALL BE USED. DUCT WORK SHALL BE PROVIDED WITH SWEEP ELBOWS.

G. ALL JUNCTION BOXES AND DUCTS THAT PENETRATE THE FLOOR SHALL BE WATERPROOF TYPE AND PROVIDED WITH GASKETED WATERPROOF COVERS. ALL FLOOR JUNCTION BOXES AND DUCT COVERS SHALL BE CAPABLE OF SUPPORTING 200 LBS OF CONCENTRATED LOAD.

H. GROMMETED OPENINGS ARE SHOWN FOR REFERENCE PURPOSES ONLY. VERIFY SIZE AND LOCATION WITH TOSHIBA REPRESENTATIVE. ALL GROMMETED OPENINGS SHALL HAVE NO SHARP EDGES.

I. ALL CHASE & GROMMETED OPENINGS SHALL HAVE PLASTIC BUSHINGS.

J. ALL DUCT WORK SHALL HAVE A MINIMUM OF THREE COMPARTMENTS WITH TRANSITIONS FROM HORIZONTAL TO VERTICAL WALL DUCT OR JUNCTION BOXES. LOCAL CODES MAY REQUIRE THE USE OF CROSS-OVER TUNNELS OR OTHER SUCH DEVICES TO MAINTAIN CABLE SEPARATION.

K. ALL DUCTS AND CONDUITS SHALL BE ELECTRICALLY BONDED AS A GROUNDING PATH IN ACCORDANCE WITH N.E.C. ARTICLE 517-13(B).

L. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL GREENLEE NYLON MEASURING PULL STRING OR EQUIVALENT IN ALL CONDUITS AND CLOSED DUCT WORK.

M. CONDUIT RUNS SHOWN ARE FOR REFERENCE ONLY. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE. CONDUIT RUNS MAY HAVE A MAXIMUM OF (3) 90 DEGREE BENDS.

N. 110 VAC GROUNDED OUTLETS SHALL BE PROVIDED ON WALLS NEAR TOSHIBA EQUIPMENT FOR USE DURING EQUIPMENT SERVICE.

O. CUSTOMER/CONTRACTOR MUST SUPPLY AND INSTALL ALL INCOMING POWER CABLES FROM CIRCUIT BREAKER(S) TO TOSHIBA EQUIPMENT CONNECTION POINT. CABLE TYPE MUST BE MTW MULTI-STRAND COPPER - NO ALUMINUM IS PERMITTED. CABLE SIZE MUST BE IN ACCORDANCE WITH POWER QUALITY REQUIREMENTS SPECIFICATIONS (SEE PAGE E3).

P. CUSTOMER/CONTRACTOR IS TO SUPPLY AND INSTALL ALL NECESSARY HARDWARE TO ENCLOSE INCOMING POWER CABLES IN WATER TIGHT CONDUIT FROM CIRCUIT BREAKER(S) TO TOSHIBA EQUIPMENT CABINET(S).

Q. ANY CHANGES IN THE LOCATION OR TYPE OF CONDUIT, DUCT WORK, JUNCTION BOXES, ETC. MUST BE SUBMITTED IN WRITING TO THE TOSHIBA INSTALLATION PROJECT MANAGER FOR APPROVAL.

R. ALL DUCT WORK MAKING A 90 DEGREE ANGLE MUST BE CHAMFERED FOR CABLE ACCESS.

S. JUNCTION BOX SIZES MAY BE INCREASED AS NEEDED (WITH EXCEPTION OF THE "PCDU" / "VUC" / "VRDU" / OR "PDU" JUNCTION BOX IF APPLICABLE.)

T. FIBER OPTIC CABLES FROM "REC" TO "GANT" & "REC" TO "CPU" REQUIRE A MINIMUM RADIUS OF 4 1/2". DUCT WORK DESIGN MUST ACCOMMODATE THIS REQUIREMENT.

**MINIMUM SITE REQUIREMENTS**

PLEASE CHECK THE FOLLOWING:		COMPLETE
1	ALL WALLS, FLOORS, AND CEILINGS FINISHED. WALLS PAINTED, FLOORS TILED, CEILING GRID WORK, AND FIXTURES INSTALLED.	___
2	MONOLITHIC OR LAY-IN CEILING? (PLEASE CIRCLE ONE)	___
3	DOORS AND WINDOWS (INCLUDING ALL LEADED DOORS AND GLASS) INSTALLED AND LOCKABLE. DOORS MUST BE REMOVED PRIOR TO DELIVERY BY CUSTOMER OR CONTRACTOR AND REINSTALLED AFTER EQUIPMENT MOVE IN.	___
4	AREA SET ASIDE FOR EQUIPMENT RIGGING AND MOVE-IN. ENVIRONMENTAL ISSUES ADDRESSED AND RESOLVED PRIOR TO EQUIPMENT DELIVERY (I.E. SURGICAL SUITE).	___
5	ALL CONDUIT, TROUGHING (WITH COVERS), AND BOXES INSTALLED (CLEAN AND DUST FREE). GROMMETED OPENINGS CHASE NIPPLES AND RACEWAY DIVIDERS, ETC. COMPLETE.	___
6	INCOMING POWER (PER POWER QUALITY REQUIREMENTS) OPERATIONAL AND CONNECTED TO ROOM BREAKER(S).	___
7	LOCATION OF ALL ELECTRICAL BREAKERS IN POWER CHAIN NOTED.	___
8	ALL CONTRACTOR-INSTALLED STRUCTURAL SUPPORT DEVICES INCLUDING UNISTRUT INSTALLED AND LEVELED ACCORDING TO T.A.M.S. SPECIFICATION ON SITE PLANS.	___
9	ROOM LIGHTING INSTALLED AND OPERATIONAL.	___
10	ENSURE THAT LIGHTING/SPRINKLER HEADS PRESENT NO CONFLICT WITH UNITS TO BE MOUNTED ON THE CEILING.	___
11	110V ROOM OUTLETS OPERATIONAL.	___
12	ALL CONTRACTOR-SUPPLIED CABLES PULLED AND TERMINATED, INCLUDING GROUND WIRE AND GROUND BUS BAR IN TROUGHING AS SPECIFIED IN THE TOSHIBA SITE PLANS.	___
13	INTERFACE FOR DIMMING OF ROOM LIGHTS (IF APPLICABLE). WARNING LIGHTS AND DOOR SWITCHES INSTALLED AND INTERFACE AVAILABLE AND CONNECTED (RELAYS, ETC.).	___
14	DUST FREE ENVIRONMENT IN ALL RELATED ROOMS.	___
15	HEATING AND AIR-CONDITIONING INSTALLED, OPERATIONAL AND STABILIZED PER TOSHIBA SITE PLANS. FILTERS TO BE CHANGED 24 HOURS BEFORE DELIVERY.	___
16	ALL MILLWORK COMPLETE AND INSTALLED.	___
17	PLUMBING COMPLETED (INCLUDING GASES, IF APPLICABLE) ACCORDING TO T.A.M.S. SPECIFICATIONS ON SITE PLANS.	___
18	OPTIONAL COMPUTER FLOOR INSTALLED (IF APPLICABLE).	___
19	THIRD PARTY VENDED ITEMS SUCH AS PROCESSORS, FILM CHANGERS, INJECTORS, GAS PEDESTALS, PHYSIOLOGICAL MONITORING EQUIPMENT, ETC., INSTALLED AND OPERATIONAL.	___
20	TELEPHONE LINES (VOICE AND OPTIONAL MODEM) INSTALLED AND OPERATIONAL. A DEDICATED PHONE LINE IS REQUIRED FOR SITES THAT ARE RECEIVING INNERVISION.	___
21	ALL UNFINISHED AREAS ARE TO BE SEALED OFF TO PREVENT DUST CONTAMINATION.	___
22	RECEPTACLE FOR TRASH AVAILABLE (LARGE ENOUGH FOR SHIPPING CRATES IF REQUIRED).	___
23	SUB BASE PLATE(S) INSTALLED (IF REQUIRED).	___
24	"PCDU" / "VUC" / "VRDU" / OR "SYSTEM UPS" INSTALLED AND OPERATIONAL (IF APPLICABLE).	___
25	SEISMIC REQUIREMENTS, ANY REQUIRED SEISMIC ANCHORING DEVICES INSTALLED (IF APPLICABLE).	___
26	NETWORK CONNECTIONS INSTALLED AND OPERATIONAL.	___
27	ALL APPLICABLE PERMITS OBTAINED.	___

**NOTICE:**  
**CUSTOMER MUST COMPLETE ALL ITEMS ON THIS CHECKLIST BEFORE THE SCHEDULED DELIVERY DATE FOR THE EQUIPMENT. IF CUSTOMER FAILS TO DO SO, DELIVERY MAY BE DELAYED. FURTHERMORE, THE EQUIPMENT WARRANTY MAY BE VOIDED.**

SIGNED TOSHIBA: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

CUSTOMER: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

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INT.	DESCRIPTION	DATE	REV.

DEPT. OF VETERAN AFFAIRS  
 NY HARBOR HEALTH CARE  
 AQUILION - 64  
 800 POLY PL.  
 BROOKLYN, NY 11208

THESE TOSHIBA PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THAT AGREED UPON BETWEEN TOSHIBA AND THE CUSTOMER. THESE SITE PLANS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

DATE: 10/22/10  
 SCALE: NOT TO SCALE  
 DRAWN: J.A.D.  
 QUOTE: 98050  
 PROJECT:  
**100010904CTP**

**GN1**

THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.