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TOSHIBA Leading Innovation

REVISED SHEET(S)								
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GENERAL NOTES

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

- A. TOSHIBA RESERVES THE RIGHT TO CHANGE THESE DESIGNS AND SPECIFICATIONS WITHOUT NOTICE.
- B. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES ARE COMPLIED WITH.
- C. PRIOR TO EQUIPMENT DELIVERY AND INSTALLATION, THE SITE MUST BE 100% COMPLETE, CLEAN AND FREE OF DUST. CUSTOMER/CONTRACTOR AND TOSHIBA INSTALLATION PROJECT MANAGER MUST COMPLETE A SITE WALK THROUGH 1 WEEK PRIOR TO DELIVERY AND DETERMINE ACCEPTABILITY FOR DELIVERY.
- D. ANY CABINETRY THAT MAY BE REQUIRED TO HOUSE VIDEO RECORDERS, MONITORS KEYBOARDS, OR OTHER ANCILLARY EQUIPMENT SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.
- E. PROVIDE ADEQUATE VENTILATION WITHIN CABINETRY AND INSTALL AXIAL FANS ON THE TOP, SIDE, OR BACK OF CABINETS, IF REQUIRED.
- F. THESE TOSHIBA SITE PLANS DO NOT INDICATE EQUIPMENT REQUIREMENTS FOR ITEMS NOT SOLD BY TOSHIBA SUCH AS, PHYSIOLOGICAL MONITORS, LASER CAMERAS. INJECTORS, ETC. SPECIFICATIONS FOR THOSE ITEMS MUST BE OBTAINED FROM THE VENDOR 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. CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN OPERATING PHONE IN THE CONTROL ROOM AT THE TIME TOSHIBA EQUIPMENT INSTALLATION BEGINS.
- I. CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE LIGHTING FOR SERVICING OF EQUIPMENT IN ALL AREAS OF THE INSTALLATION.
- J. THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS REQUIRED FOR THE ENGINEERING AND/OR REMOVAL OF ANY HAZARDOUS MATERIALS SUCH AS ASBESTOS.
- K. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL MATERIALS AND OTHER FEATURES SPECIFIED IN THE TOSHIBA SITE PLANS. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL ALL COUNTERTOPS, SINKS, CASE WORK AND CABINETS SPECIFIED IN THE TOSHIBA SITE PLANS.
- L. PLUMBING IS NOT REQUIRED FOR THIS TOSHIBA EQUIPMENT
- M. IT IS RECOMMENDED THAT A SINK BE PROVIDED FOR USE BY PERSONNEL.
- N. DIMENSIONS TO WALLS 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 OF 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).

NETWORKING REQUIREMENTS

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

<u>TRANSPORT REQUIREMENTS</u>

EQUIPMENT INGRESS ROUTE MUST BE CHECKED PRIOR TO EQUIPMENT DELIVERY 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 4, SHEET GN2). 02-13-13

STRUCTURAL NOTES

MUST BE SPECIFIED BY A LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH

- CUSTOMER / CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED, 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
- B. THE CUSTOMER/CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS AND SITE CONDITIONS PRIOR TO COMMENCING CONSTRUCTION.

TOSHIBA SPECIFICATIONS AND ALL APPLICABLE CODES.

- C. THE TOSHIBA INSTALLATION PROJECT MANAGER SHALL BE NOTIFIED IN WRITING OF ANY FIELD CONDITIONS ENCOUNTERED THAT ARE CONTRADICTORY TO THOSE SHOWN IN THE TOSHIBA SITE PLANS.
- D. THE DEMOLITION, FABRICATION, AND ERECTION OF SUPPORT STRUCTURES FOR TOSHIBA EQUIPMENT SHALL BE PERFORMED BY THE CUSTOMER/CONTRACTOR IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS SET FORTH BY THE STRUCTURAL ENGINEER OF
- E. DUE TO THE DYNAMIC NATURE OF THE LOAD, BOTH HORIZONTAL AND VERTICAL ACCELERATION SHOULD BE INCLUDED IN THE DESIGN CALCULATIONS FOR THE SUPPORT STRUCTURE AS WELL AS ANCHORING AND THRU-BOLTING FOR THE TOSHIBA EQUIPMENT.
- F. 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.
- G. UNDER NO CIRCUMSTANCE SHOULD THE TOSHIBA EQUIPMENT BE INSTALLED ON A WOOD

<u>CEILING STRUCTURAL SYSTEMS</u>

H. IN ORDER TO AVOID COLLISION WITH MOVEABLE TOSHIBA CEILING MOUNTED EQUIPMENT. ALL CEILING FIXTURES SUCH AS LAMPS, SMOKE DETECTORS, SPRINKLERS, ETC. MUST E FLUSH MOUNTED (SEE DETAIL 3, SHEET GN2).

- 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. 02-13-1

SPECIAL NOTES

SPECIAL SEISMIC CERTIFICATION A. THE FOLLOWING COMPONENTS HAVE SPECIAL SEISMIC CERTIFICATION:

A.A. OSP-0174-10

AQUILION ONE 640 SERIES: CGGT-024A/1A

AQUILION PREMIUM 320 SERIES: CGGT-024A/1B

AQUILION PRIME 80/160 SERIES: CGGT-027A/1A AQUILION LB: CGGT-020A/1C

AQUILION CX: CGGT-024A/1B

AQUILION 64: CGGT-021A/1A

AQUILION 32: CGGT-021A/2A

AQUILION RXL: CGGT-018B/1A

AQUILION 16/8/4: CGGT-018A/1C

PATIENT COUCH

AQUILION ONE/PREMIUM: CBTB-021A/1A (STANDARD), CBTB-021B/1A (COMPACT)

AQUILION CX: CBTB-023A/1A (STANDARD) AQUILION PRIME 80/160: CBTB-026A/1A (STANDARD), CBTB-026B/1A (COMPACT)

LATERAL SHIFT KIT: CALU-001A/1C (OPTIONAL)

AQUILION LB STANDARD: CBTB-020A/1A

AQUILION LB COMPACT: CBTB-020B/1A AQUILION 64/32: CBTB-019A (STANDARD), CBTB-019B (COMPACT)

AQUILION RXL: CBTB-028A/1A (STANDARD). CBTB-028B/1A (COMPACT)

AQUILION 16/8/4: CBTB-016A/1A (STANDARD), CBTB-016B (COMPACT)

POWER DISTRIBUTOR AQUILION ONE/PREMIUM: CETF-006A/2A

AQUILION PRIME: CETF-006A/3A

AQUILION RXL: CETF-006A/6A

RECONSTRUCTION UNIT(S) & CPU

AQUILION ONE: CKCN-015A/1A

AQUILION PREMIUM: CKCN-015A/2A

AQUILION PRIME: CKCN-016A/2A AQUILION LB: CKCN-012C/5A

AQUILION CX/64/32: CKCN-012B/5AAQUILION VELOCT: CKCN-016C/1A

AQUILION RXL: CKCN-016B/4A

AQUILION 16/8/4: CKCN-012C/7A

LCD MONITORS

KEYBOARDS MOUSE

A.B. OSP-0162-10 PCDU - GROUP 1 ENCLOSURES (AS APPLICABLE)

A.C. OSP-0119-10 G8000 UNINTERRUPTIBLE POWER SUPPLY - G8000 (AS APPLICABLE)

A.D. OSP-0088-10

BAT - BC43 (WHEN PAIRED WITH G8000) (AS APPLICABLE) BAT - BC55 (WHEN PAIRED WITH 9390) (AS APPLICABLE)

A.E. OSP-0013-10

UPS - 9390 160 KVA (AS APPLICABLE)

B. WEIGHTS SHOWN ON THE OSP DOCUMENTS ARE GENERALLY A MAXIMUM AND THE WEIGHTS SHOWN ON THESE SITE PLANS REFLECT THE EQUIPMENT AS ORDERED. 05-07-13

ELECTRICAL REQUIREMENTS FOR AQUILION

SUPPLY CONFIGURATION: 3 PHASE DELTA OR WYE

480V. 100 AMP. 60 Hz SUPPLY VOLTAGE:

DISTRIBUTION CAPACITY: 150 KVA

02-13-13

VIBRATION SPECIFICATION

 $0.98 \text{ M/S}^2 (0.1 \text{ G}) \text{ OR LESS}$

02-13-13

CEILING HEIGHT

RECOMMENDED CEILING HEIGHT: 9'-0" MINIMUM CEILING HEIGHT: 8'-2 1/2"

02-13-13

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 THE TOSHIBA EQUIPMENT. THE DESIGN OF ALL ELECTRICAL ELEMENTS MUST BE SPECIFIED BY A LICENSED ELECTRICAL ENGINEER IN ACCORDANCE WITH TOSHIBA SPECIFICATION AND ALL APPLICABLE CODES.
- B. IN ACCORDANCE WITH NEC ARTICLE 517-72(B), THE EQUIPMENT CIRCUIT BREAKER(S) 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 OFF BUTTON FOR THE SHUNT TRIP SHOULD BE LOCATED IN THE CONTROL AREA.
- C. THE CUSTOMER/CONTRACTOR SHALL 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. THESE REQUIREMENTS MUST BE OBTAINED BY THE VENDOR.
- TOSHIBA WILL SUPPLY INTERCONNECTING CABLES FOR THE TOSHIBA EQUIPMENT. TOSHIBA WILL INSTALL IF LOCAL TRADE LABOR PERMITS.
- 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.
- G. DUCT WORK SHALL BE PROVIDED WITH SWEEP ELBOWS.
- H. 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 A CONCENTRATED LOAD OF 200 LBS.
- GROMMETED OPENINGS ARE SHOWN FOR REFERENCE PURPOSES ONLY. VERIFY SIZE AND LOCATION WITH TOSHIBA REPRESENTATIVE. ALL GROMMETED OPENINGS SHALL HAVE NO SHARP EDGES.
- J. ALL CHASE & GROMMETED OPENINGS SHALL HAVE PLASTIC/NYLON BUSHINGS.
- K. ALL WALL DUCT WORK SHALL HAVE THE MINIMUM NUMBER OF COMPARTMENTS SPECIFIED IN THE ELECTRICAL DUCT LEGEND (SHEET E1). TRANSITIONS SUCH AS HORIZONTAL TO VERTICAL WALL DUCT OR WALL DUCT TO JUNCTION BOXES MUST BE REVIEWED ON AN INDIVIDUAL BASIS WITH THE INSTALLATION PROJECT MANAGER. LOCAL CODES MAY REQUIRE THE USE OF CROSS-OVER TUNNELS OR OTHER SUCH DEVICES TO MAINTAIN CABLE SEPARATION.
- ALL DUCT AND CONDUITS SHALL BE ELECTRICALLY BONDED AS A GROUNDING PATH IN ACCORDANCE WITH NEC ARTICLE 517-13(B).
- M. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL GREENLEE NYLON MEASURING PULL STRING OR EQUIVALENT IN ALL CONDUITS AND CLOSED DUCT WORK.
- N. CONDUIT RUNS SHOWN ARE FOR REFERENCE ONLY. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE.
- O. CONDUIT RUNS MAY HAVE A MAXIMUM OF (3) 90° BENDS.
- P. 110VAC GROUNDED OUTLETS SHALL BE PROVIDED ON WALLS NEAR THE TOSHIBA EQUIPMENT FOR USE DURING EQUIPMENT SERVICE.
- Q. CUSTOMER/CONTRACTOR MUST SUPPLY AND INSTALL ALL INCOMING POWER CABLES FROM CIRCUIT BREAKER(S) TO TOSHIBA FQUIPMENT CONNECTION POINT. CABLE TYPE MUST BE MTW MULTI-STRAND COPPER - NO ALUMINUM IS PERMITTED. CABLE SIZE MUST BE IN ACCORDANCE WITH TOSHIBA POWER QUALITY REQUIREMENTS. (SEE SHEET
- CUSTOMER/CONTRACTOR IS TO SUPPLY AND INSTALL ALL NECESSARY HARDWARE TO ENCLOSE INCOMING POWER CABLES IN FLEXIBLE WATER TIGHT CONDUIT FROM CIRCUIT BREAKER(S) TO TOSHIBA EQUIPMENT CABINET(S).
- 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.
- T. A SEPARATE CIRCUIT, FED FROM THE FACILITY RADIOLOGY PANEL OR A MAIN SERVICE PANEL IS REQUIRED. USE OF A SUB PANEL WITH LOADS SUCH AS ELEVATORS, HVAC, MOTORS, ETC. IS NOT PERMITTED.
- U. ALL DUCT WORK MAKING A 90° ANGLE MUST BE CHAMFERED FOR CABLE ACCESS. V. JUNCTION BOX SIZES SPECIFIED ON SHEET E1 MAY BE INCREASED AS NEEDED.

W. FIBER OPTIC CABLES REQUIRE A MINIMUM RADIUS OF 4 1/2". DUCT WORK DESIGN MUST ACCOMMODATE THIS REQUIREMENT. 04-09-13

TOSHIBA POWER & ENVIRONMENTAL QUALITY NOTIFICATION / ASSESSMENT

FOR YOUR SYSTEM TO PERFORM TO THE RELIABILITY AND QUALITY STANDARDS YOU EXPECT FROM TOSHIBA, IT IS CRUCIAL THAT THE ENVIRONMENT IN WHICH THE SYSTEM I OPERATING MEET THE REQUIREMENTS STATED WITHIN THE TOSHIBA PUBLISHED SPECIFICATIONS AS DOCUMENTED IN YOUR TOSHIBA SITE PLAN. TO ENSURE QUALITY PERFORMANCE, TOSHIBA, WITH NO COST TO YOU, WILL CHECK THE TEMPERATURE, HUMIDITY, AND INCOMING POWER OF YOUR SITE PRIOR TO AND AFTER THE INSTALLATION PROJECT NO. OF TOSHIBA EQUIPMENT. TOSHIBA WILL PROVIDE A WRITTEN REPORT DETAILING THE STATUS OF YOUR SITE'S ENVIRONMENT AND INCOMING POWER. SHOULD ANY FAILURE TO MEET TOSHIBA'S SPECIFICATIONS BE IDENTIFIED PRE AND POST INSTALLATION, THE FACILITY WILL BE REQUIRED TO CORRECT THEM TO MEET TOSHIBA PUBLISHED SPECIFICATIONS. TOSHIBA WILL PROVIDE GUIDANCE TO DEVELOP SOLUTIONS TO ANY DEFICIENCIES TO THE ENVIRONMENT OR INCOMING POWER. HOWEVER, YOU ARE RESPONSIBLE FOR CORRECTING SUCH DEFICIENCIES, AT NO COST TO TOSHIBA. FAILURE TO CORRECT ANY KNOWN OR DISCOVERED DEFICIENCIES MAY RESULT IN SYSTEM REPAIRS THAT ARE NOT COVERED BY YOUR WARRANTY OR SERVICE CONTRACT. 04-09-13

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AND SHALL NOT BE USED FO ANY PURPOSE OTHER THAN THA AGREED UPON BETWEEN TOSHIBA AND THE CUSTOMER. THESE PLANS ARE NOT TO BE USE FOR CONSTRUCTION PURPOSE

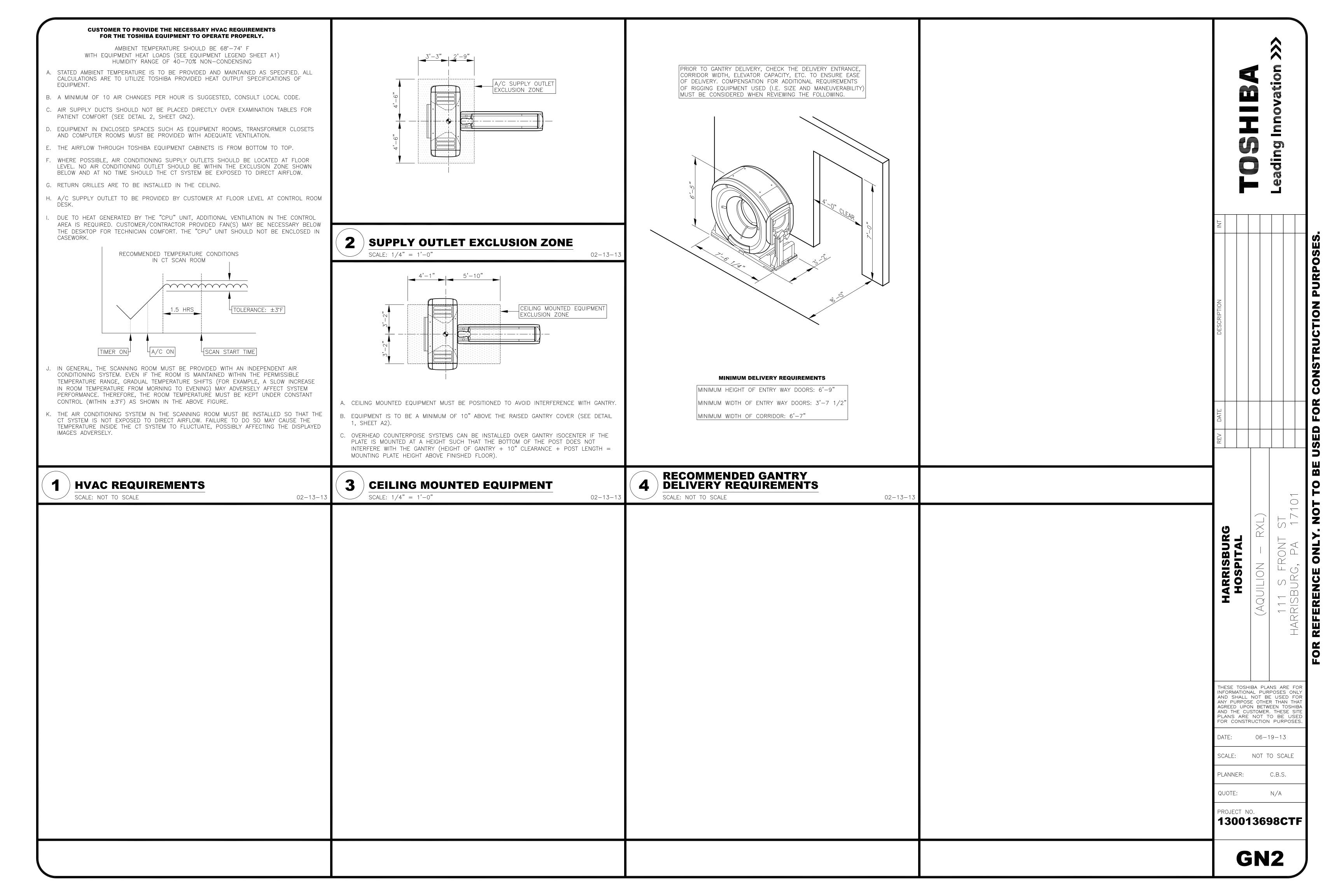
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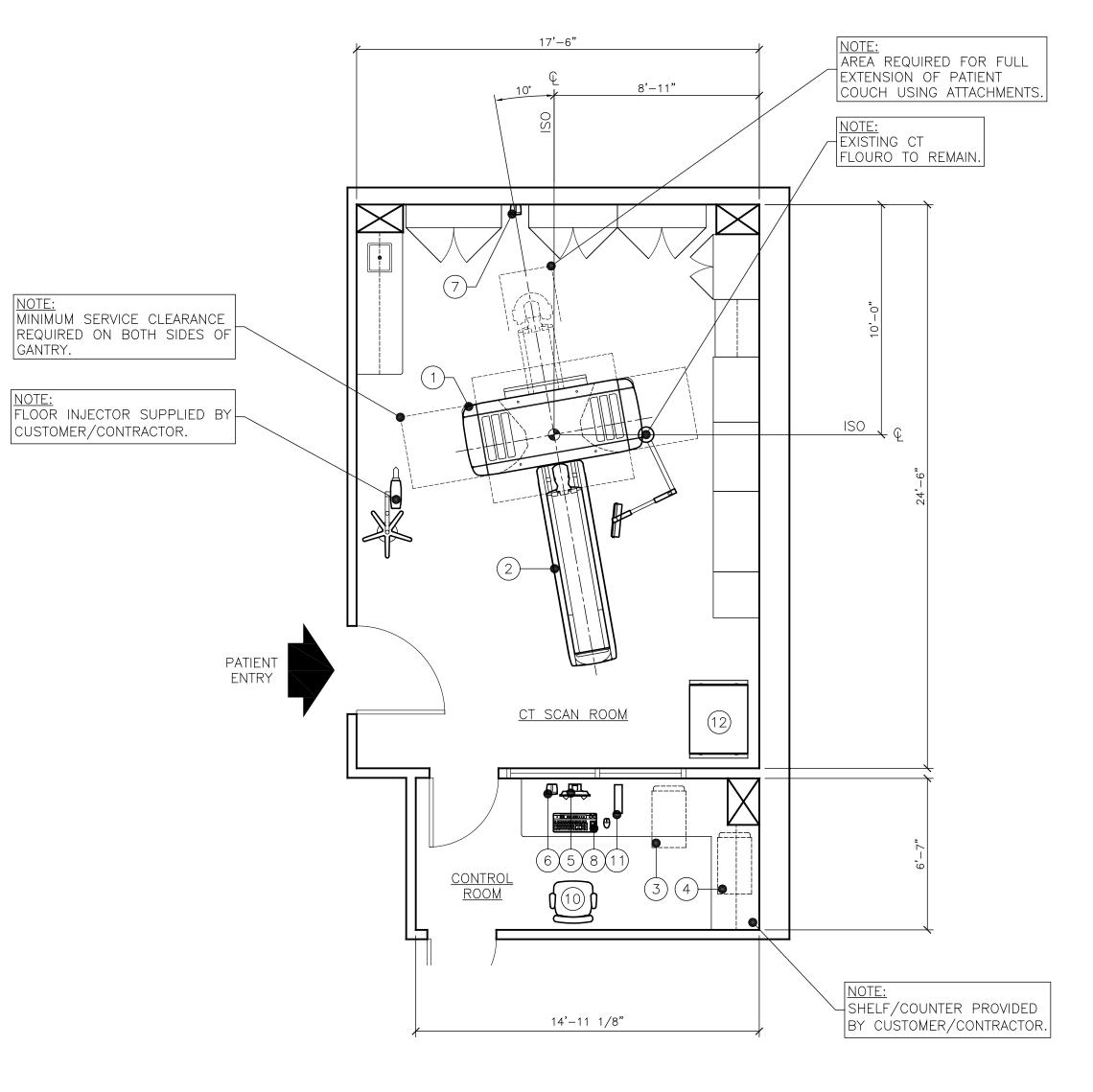
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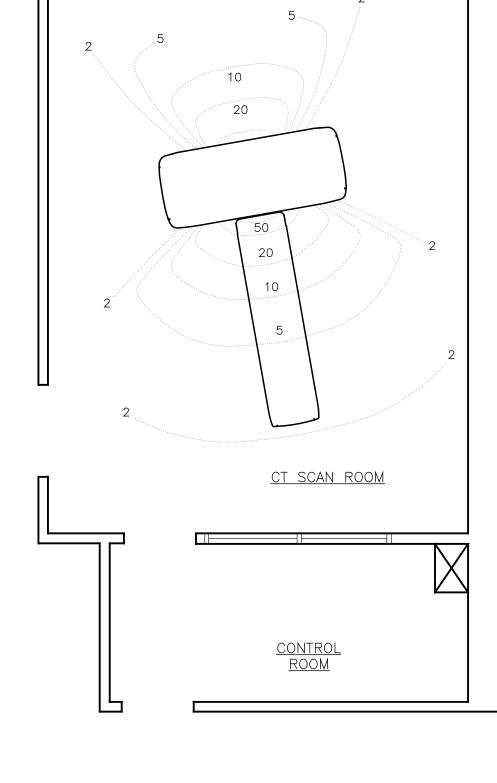
PLANNER: C.B.S. QUOTE: N/A

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GN1





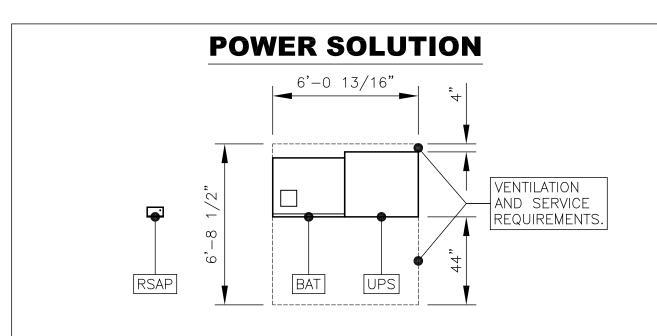


SCATTER RADIATION FIELD

NOTE: NOT USED IN THIS LAYOUT.

EQUIPMENT LAYOUT

THE EQUIPMENT SHOWN IN THIS LAYOUT MUST BE VERIFIED WITH THE FINAL PURCHASE ORDER.



- A. THE POWER SOLUTION SHOWN IS FOR PLANNING PURPOSES ONLY. THE FINAL ORDER WILL SHOW THE POWER SOLUTION CONFIGURATION REQUIRED TO MEET SITE SPECIFIC CONDITIONS. SEE TOSHIBA POWER & ENVIRONMENTAL QUALITY NOTIFICATION / ASSESSMENT NOTE "A" ON SHEET GN1 FOR MORE INFORMATION.
- B. THE G8000 UNINTERRUPTIBLE POWER SUPPLY (UPS) WITH BATTERY CABINET (BAT) SHOWN HERE ARE TO BE REMOTELY LOCATED. SEE RECOMMENDED DELIVERY REQUIREMENTS DETAIL 5, SHEET GN2.
- D. THE REMOTE STATUS ALARM PANEL (RSAP) SHOWN HERE, WILL BE WALL
- MOUNTED IN THE CONTROL ROOM.
- E. SEE EQUIPMENT SPECIFICATIONS ON SHEET A2.
- F. THE "UPS" AND "BAT" CABINETS CAN BE SEPARATED. CABLES BETWEEN "UPS" AND "BAT" CAN BE RUN UP TO, BUT NOT TO EXCEED, 70'-0" IN LENGTH. G. THIS EQUIPMENT, IF PURCHASED, WILL BE PROVIDED BY TOSHIBA AND INSTALLED
- BY CUSTOMER/CONTRACTOR. H. 16" AIR FLOW CLEARANCE ABOVE "UPS" IS REQUIRED.
- . "RSAP" MONITOR MUST BE LOCATED WITHIN 1,000 FEET OF THE "UPS". "RSAP" TO BE INSTALLED BY CUSTOMER'S ELECTRICIAN. CUSTOMER'S ELECTRICIAN MUST PROVIDE 7 TWISTED PAIR 16 AWG CABLE (SIGNAL), AND 18 AWG WIRE (POWER) FROM "UPS" TO "RSAP".

SCATTER RADIATION

UNITS: MICROGRAY (PER 100 mAs)

THE AMOUNT OF SCATTERED RADIATION DURING SCANNING IS SHOWN IN THE EQUIPMENT LAYOUT. REFER TO THIS DATA WHEN SCANNING TO MINIMIZE X-RAY EXPOSURE. NOTE THAT THE AMOUNT OF SCATTERED RADIATION DIFFERS DEPENDING ON THE PATIENT; THEREFORE, THE DATA SHOWN SHOULD BE USED ONLY AS A GUIDE.

120kV / 100mA / 1.0s / M / 8mm x 4 / 320mm diameter PMMA phantom.

THE ABOVE CALCULATION IS BASED ON A MULTI-SLICE EXPOSURE.

THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR HAVING SHIELDING CALCULATIONS PREPARED BY A LICENSED RADIATION PHYSICIST.

TOSHIBA REPRESENTATIVE WILL PROVIDE THE VERTICAL PLANE SCATTER DIAGRAM UPON REQUEST.

REVISED: 02-13-13

	ELEC. SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.		
$\left(\begin{array}{c}1\end{array}\right)$	GANT	AQUILION GANTRY (TYPE C)	*	3,859	1 A2		4
2	PCH	AQUILION PATIENT COUCH (STANDARD)	*	1,070	1 A2		1
3	CPU	CENTRAL PROCESSING UNIT	10,246	261	2 A2		
4	REC	RECONSTRUCTION UNIT (BTU/HR INCLUDED WITH "CPU")	_	298	3 A2		
5	MON	CONTROL MONITOR	192	18	4 A2		
6	SPK1	SPEAKER (DESKTOP)	0	5	5 A2		
7	SPK2	SPEAKER (WALL MOUNT)	0	5	5 A2		
8	SKBD	KEYBOARD (SCAN)	0	6	<u>-</u>		
9	DESK	DESK FOR MONITORS & KEYBOARDS	0	221	6 A2	\ 	
10	CHR	CHAIR	0	55	<u>-</u>		
11)	INV	INNERVISION WORKSTATION	T.B.D.	17	7 A2		
ITEM	ELEC. SYM.	ITEM DESCRIPTION - SUPPLIED BY TOSHIBA & INSTALLED BY CUSTOMER / CONTRACTOR	BTU/HR	WEIGHT	REF.		
(12)	PD	POWER DISTRIBUTOR	2,730	1,197	8 A2		
ITEM	ELEC. SYM.	OPTIONAL ITEM DESCRIPTION - SUPPLIED & INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.	ESCRIPTION	
						REV DATE	

EQUIPMENT LEGEND

EXAM ROOM SCANNING 2 PATIENTS: 20,081 BTU/HR EXAM ROOM SCANNING 3 PATIENTS: 21,104 BTU/HR EXAM ROOM SCANNING 4 PATIENTS: 22,128 BTU/HR EXAM ROOM SCANNING 5 PATIENTS: 23,151 BTU/HR EXAM ROOM SCANNING MAXIMUM: 24,175 BTU/HR

FUTURE GROWTH OF FACILITY MUST BE CONSIDERED WHEN FORECASTING PATIENT NUMBERS FOR A/C REQUIREMENTS.

SITE PLAN APPROVAL IN ORDER TO USE THIS SET OF FINAL SITE PLANS, A CUSTOMER SIGNATURE IS REQUIRED BELOW. THE CUSTOMER'S SIGNATURE DEMONSTRATES ACCEPTANCE OF THE LAYOUT SHOWN AND ALL STATED SPECIFICATIONS.

CUSTOMER:	DATE:	
SALES:	DATE:	
I.P.M.:	DATE:	

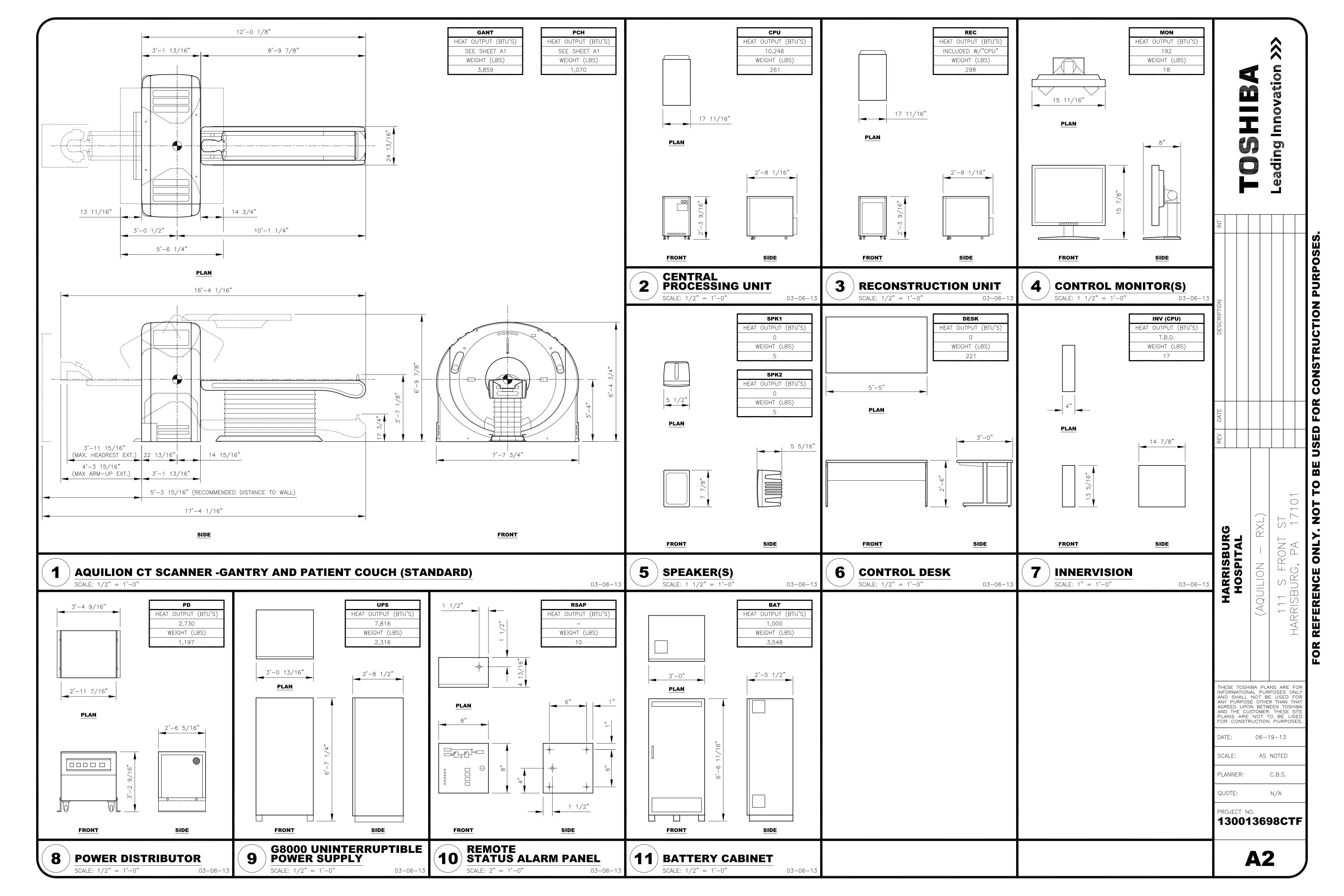
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AND SHALL NOT BE USED FOR
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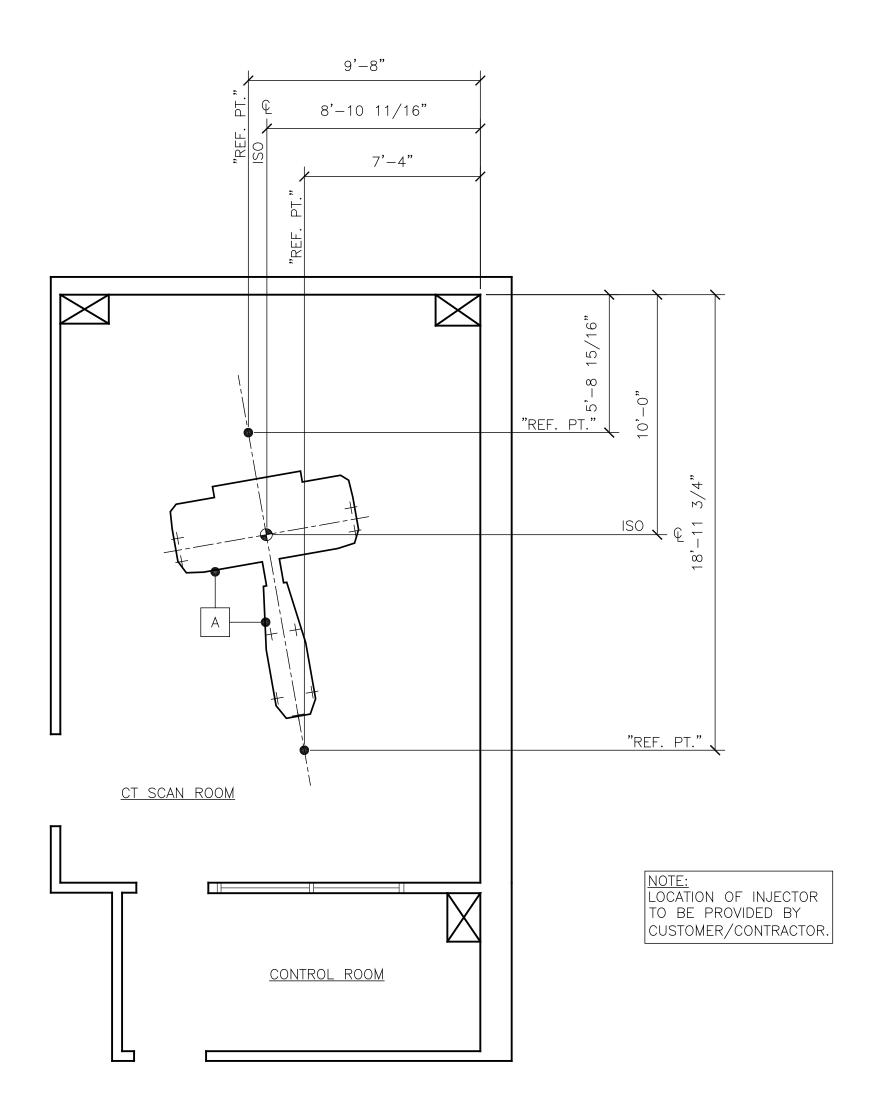
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DATE:	06-19-13
SCALE:	1/4" = 1'-0"
PLANNER:	C.B.S.
QUOTE:	N/A
PROJECT N	Ο.

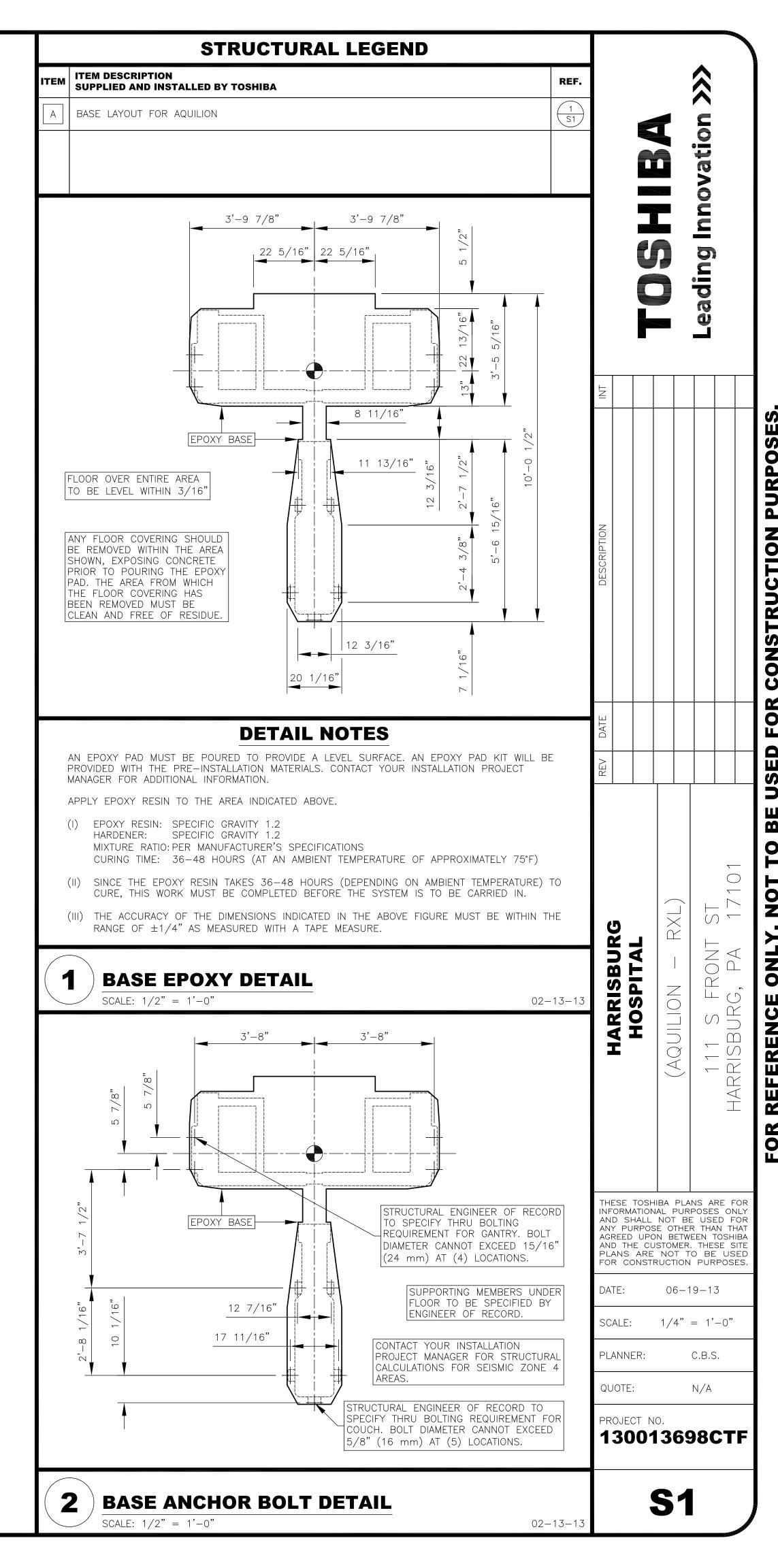
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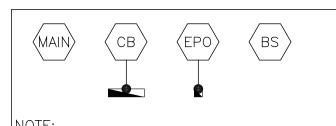




NOTE:
ANY FLOOR COVERING SHOULD BE REMOVED WITHIN THE AREA SHOWN IN DETAIL 1 EXPOSING CONCRETE PRIOR TO POURING THE EPOXY PAD. THE AREA FROM WHICH THE FLOOR COVERING HAS BEEN REMOVED MUST BE CLEAN AND FREE OF RESIDUE.

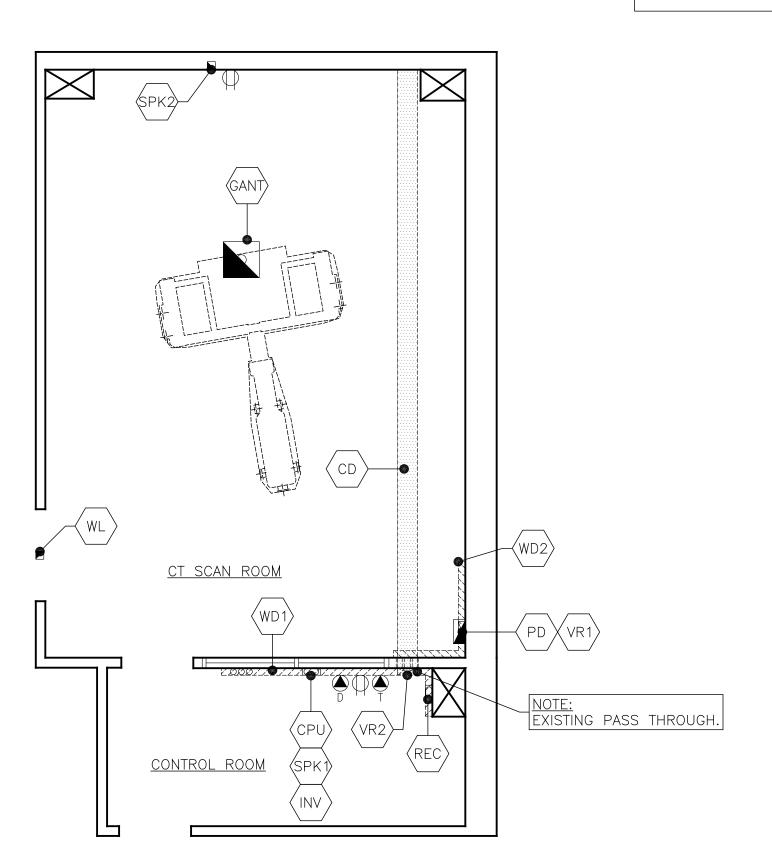
STRUCTURAL LAYOUT



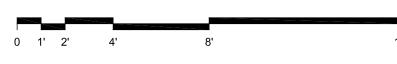


TO BE LOCATED BY CUSTOMER / CONTRACTOR.

ADDITIONAL "EPO" SWITCHES TO BE LOCATED IN ADJACENT ROOMS WITH TOSHIBA EQUIPMENT IF MAIN "EPO" IS NOT ACCESSIBLE (VERIFY WITH LOCAL CODE). ALL "EPO" SWITCHES TO BE PROVIDED BY CUSTOMER / CONTRACTOR.



ELECTRICAL LAYOUT



REUSE ANY EXISTING DUCT, J-BOXES OR CONDUITS IF APPLICABLE.

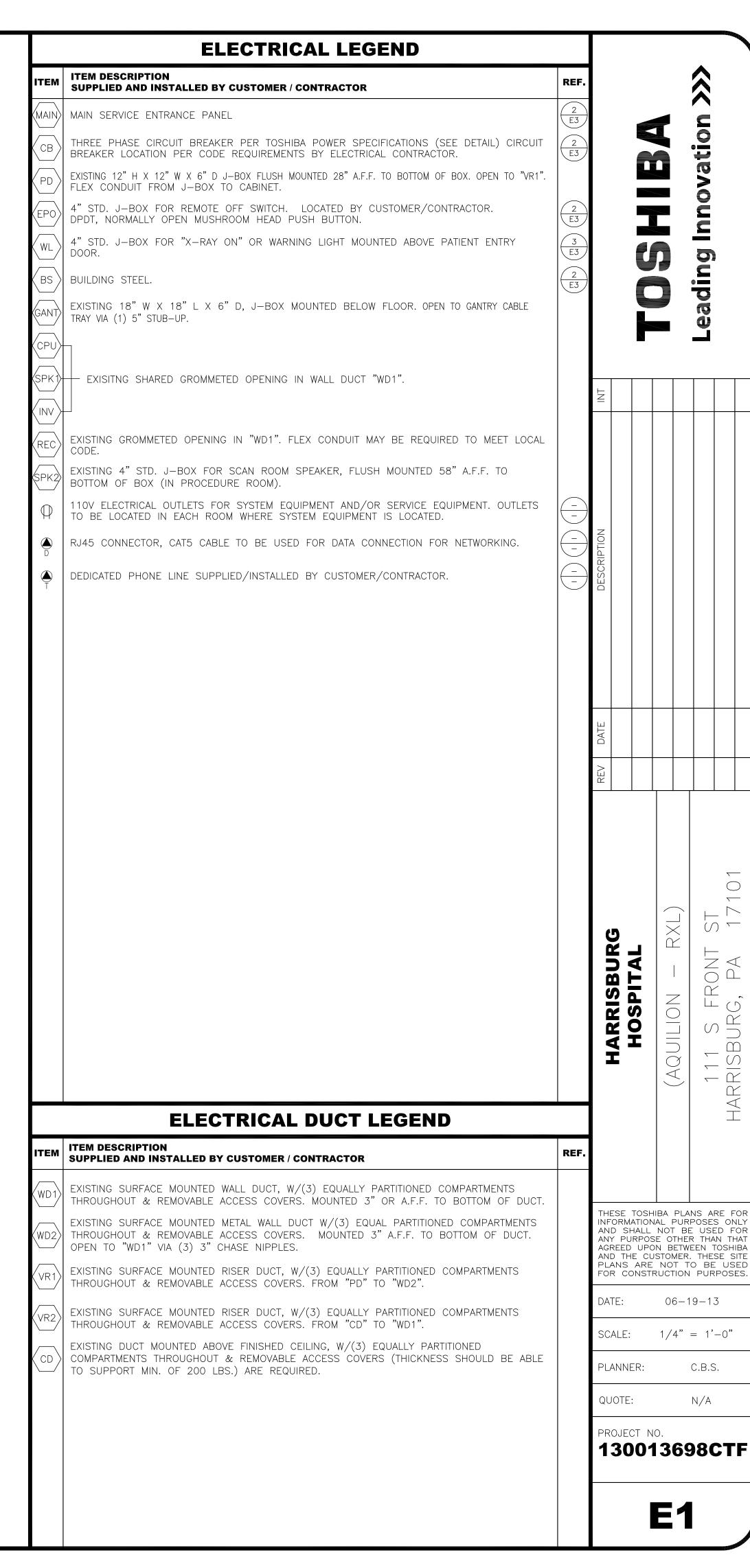
TOSHIBA SUPPLIED POWER CABLE BETWEEN THE "PD" AND TOSHIBA EQUIPMENT ARE TO BE USED IF THE CABLE LENGTHS PROVIDED ARE SUFFICIENT. SEE DETAIL 2, SHEET E3. IN CASES WHERE EXTENDED CABLE LENGTHS ARE REQUIRED, THE CUSTOMER/CONTRACTOR MUST PROVIDE CABLES PER LOCAL/NATIONAL

CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL CABLES ARE IN COMPLIANCE WITH ALL LOCAL/NATIONAL CODES.

NOTE:
FIBER OPTICAL CABLES FROM RECONSTRUCTION UNITS REQUIRE A MINIMUM BENDING RADIUS OF 4 1/2". DUCT WORK DESIGN MUST ACCOMMODATE THIS REQUIREMENT.

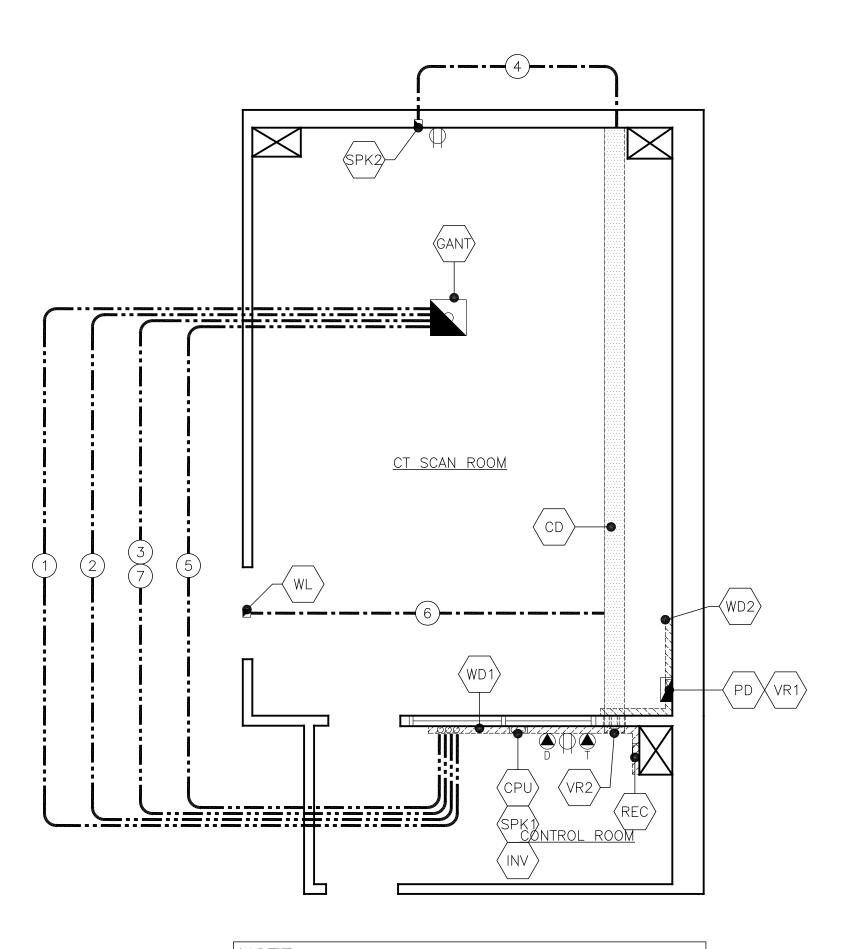
J-BOX SIZES MAY BE INCREASED AS NEEDED.

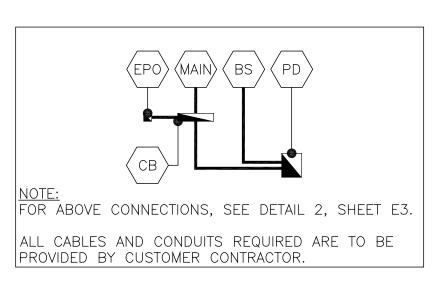
GROMMETED OPENINGS ARE SHOWN FOR REFERENCE ONLY. VERIFY SIZE AND LOCATION WITH TOSHIBA REPRESENTATIVE.



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REF

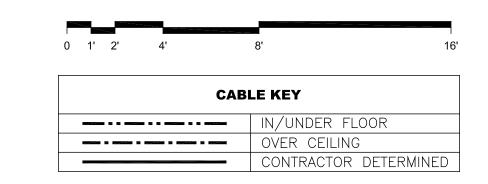




NOTE:
REUSE ANY EXISTING DUCT, J—BOXES OR CONDUITS IF APPLICABLE.

ELECTRICAL SCHEMATIC

(PROVIDED FOR REFERENCE PURPOSES ONLY)



CONDUIT SCHEDULE

CONTRACTOR CONDUIT REFERENCE					CABLE REFERENCE					
RUN NO.	CONDUIT (POINT TO POINT)		CONDUIT (ROUTING)	CONDUIT (DIAMETER)	CONDUIT (MAX LENGTH)	CABLE (POINT TO POINT)		CABLE LENGTH (USABLE)	CABLES (SUPPLIED BY	
1	(WD1)	GANT	UNDER FLOOR	(2) 2 1/2"	20'-0"	PD	GANT	SEE RUN "B"* DETAIL (1/E4)	TOSHIBA	
2	GANT	WD1	UNDER FLOOR	2 1/2"	20'-0"	GANT	CPU	SEE RUN "D" DETAIL (1/E4)	TOSHIBA	
3	GANT	WD1	UNDER FLOOR	(2) 3"	20'-0"	GANT	CPU	SEE RUN "E" DETAIL (1/E4)	TOSHIBA	
4	SPK2	(CD)	OVER CEILING	1/2"	25'-0"	SPK2	CPU	SEE RUN "G" DETAIL (1/E4)	TOSHIBA	
5	WD1	GANT	UNDER FLOOR	2 1/2"	20'-0"	REC	GANT	SEE RUN "L" DETAIL (1/E4)	TOSHIBA	
6	WL	(CD)	OVER CEILING	PER MANUFACTURER	PER MANUFACTURER	WL	GANT	PER MANUFACTURER	CONTRACTOR	
7	GANT	WD1	UNDER FLOOR	1"	20'-0"	GANT	INV	SEE RUN "H" DETAIL (1/E4)	TOSHIBA	

NOTE:

- A. CONDUITS SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR.
- B. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE.
- C. * IF RUN IS GREATER THAN LENGTH SHOWN, CUSTOMER/CONTRACTOR TO PROVIDE CABLES. REFER TO DETAIL 1, SHEET E3.
- D. CONDUIT IS NOT TO BE RUN IN SUCH A MANNER THAT WILL EXCEED CONDUIT MAXIMUM LENGTH AS SHOWN IN THE SCHEDULES.

	1	ng Innovation
		Leadir

	USED FOR CONSTRUCTION PURPOS
HARRISBURG HOSPITAL HOSPITAL HOSPITAL (AQUILION - RXL) (AQUILION - RXL) (111 S FRONT ST HARRISBURG, PA 17101	FOR REFERENCE ONLY. NOT TO BE U

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.

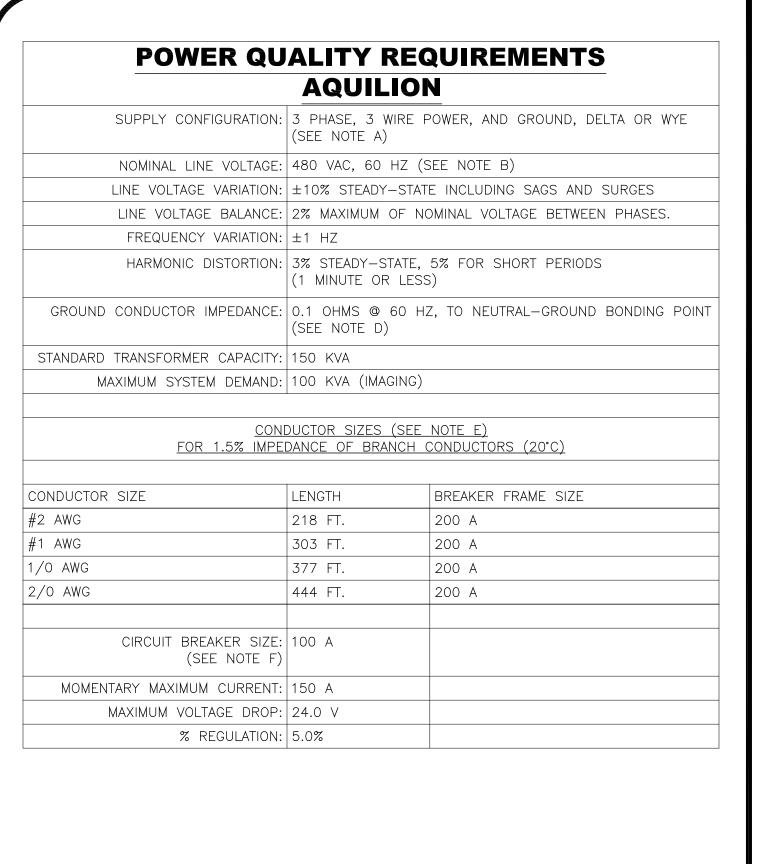
DATE: 06-19-13SCALE: 1/4" = 1'-0"PLANNER: C.B.S.

QUOTE: N/A

PROJECT NO.

130013698CTF

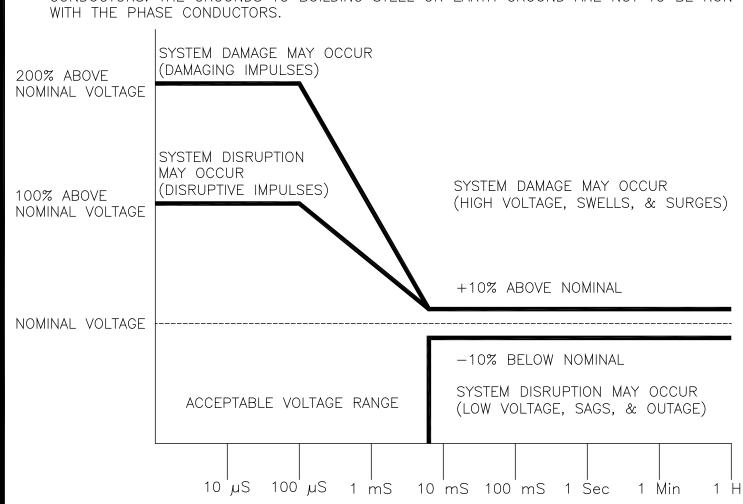
F2

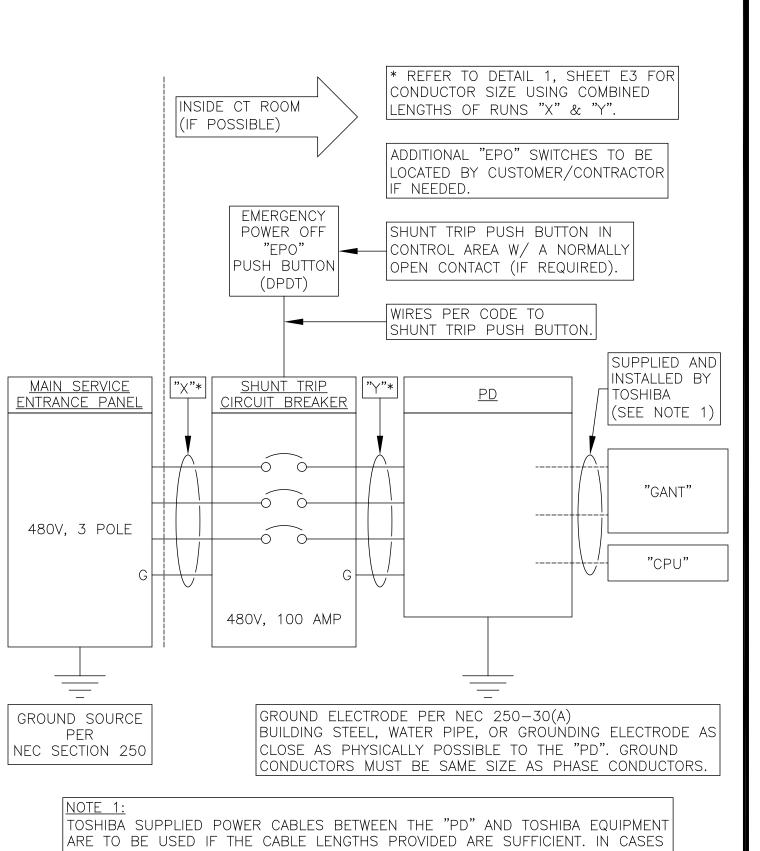


STANDARD POWER QUALITY NOTES

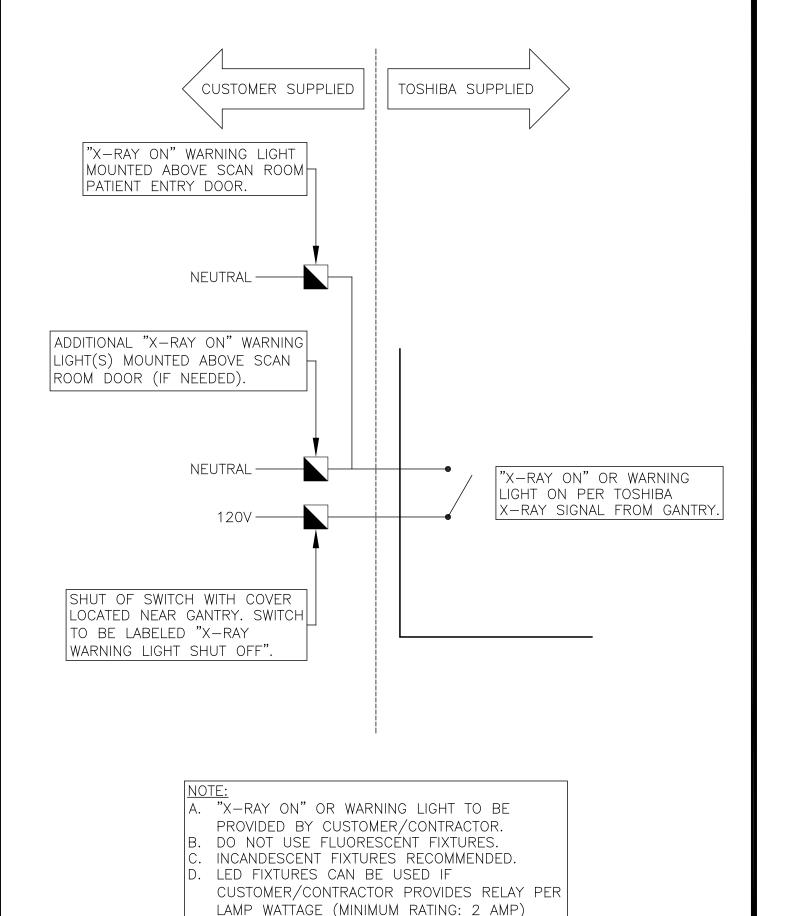
- A. A GROUNDED NEUTRAL POWER SOURCE IS REQUIRED TO ASSURE RELIABLE EQUIPMENT OPERATION. THE NEUTRAL CONDUCTOR MAY NOT BE USED FOR A PARTICULAR SYSTEM.
- B. IN CASES WHERE MULTIPLE VOLTAGES ARE PERMITTED, THE PREFERRED SYSTEM VOLTAGE IS
- C. DUE TO THE HIGH INSTANTANEOUS POWER OF MEDICAL IMAGING SYSTEMS, USE THE HIGHEST AVAILABLE VOLTAGE SOURCE. ENSURE THAT LOWER VOLTAGE SOURCES ARE DERIVED DIRECTLY FROM THE SERVICE ENTRANCE OF THE FACILITY.
- D. GROUND CONDUCTORS ARE REQUIRED TO BE THE SAME SIZE AS THE PHASE CONDUCTORS UNLESS A LARGER SIZE IS REQUIRED BY CODE.
- E. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS MUST BE COPPER ALUMINUM IS NOT PERMITTED.
- F. IF THE EQUIPMENT CIRCUIT BREAKER IS NOT LOCATED IN THE CONTROL AREA, A SHUNT TRIP BREAKER MUST BE USED IN ORDER TO COMPLY WITH N.E.C. 517-72(B). A PUSH-BUTTON TO OPERATE THE SHUNT TRIP MUST BE LOCATED IN THE CONTROL AREA.
- G. A SEPARATE CIRCUIT, FED FROM THE FACILITY RADIOLOGY PANEL OR A MAIN SERVICE PANEL IS REQUIRED. USE OF A SUB PANEL WITH LOADS SUCH AS ELEVATORS, HVAC, MOTORS, ETC., IS NOT PERMITTED.
- H. DEVICES SUCH AS UNINTERRUPTIBLE POWER SUPPLIES, POWER CONDITIONERS, VOLTAGE REGULATORS, AND FILTERS MAY BE INCOMPATIBLE WITH THIS IMAGING EQUIPMENT. CONSULT YOUR TOSHIBA SERVICE REPRESENTATIVE PRIOR TO PURCHASING OR INSTALLING THESE DEVICES.

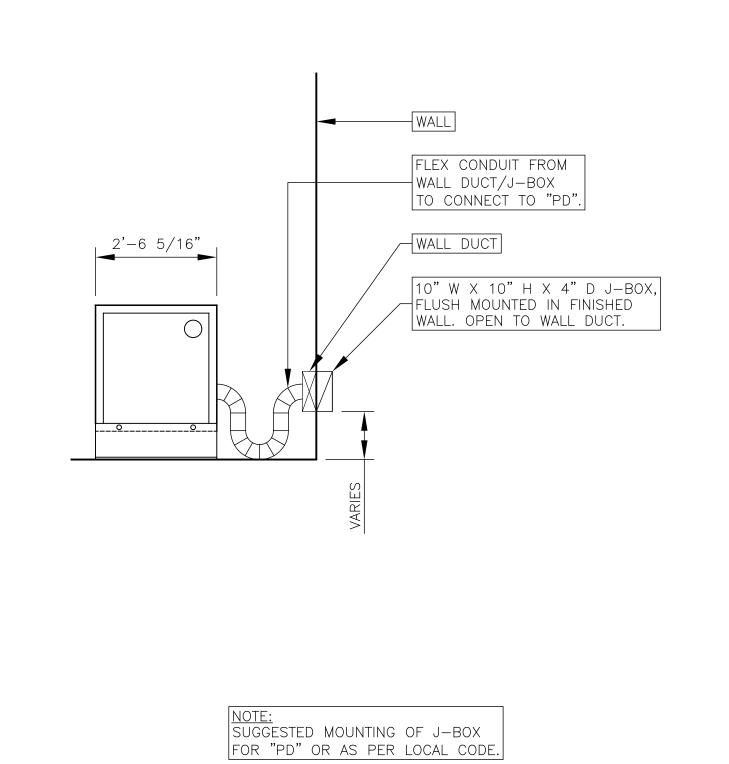
THE MAINS POWER GROUND CONDUCTOR IS TO BE RUN WITH THE POWER PHASE CONDUCTORS. THE GROUNDS TO BUILDING STEEL OR EARTH GROUND ARE NOT TO BE RUN

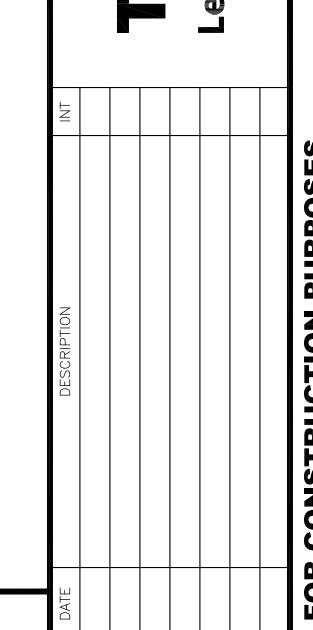




WHERE EXTENDED CABLE LENGTHS ARE REQUIRED, THE CUSTOMER/CONTRACTOR







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MUST PROVIDE CABLES PER LOCAL/NATIONAL CODES.

SCALE: NOT TO SCALE SCALE: NOT TO SCALE 02-25-13

WARNING LIGHT DETAIL

04-09-13

TYPICAL "PD" J-BOX MOUNTING SCALE: 1/2" = 1'-0"

02-13-13

IARRISBUF HOSPITAL

THESE TOSHIBA PLANS ARE FO INFORMATIONAL PURPOSES ONL AND SHALL NOT BE USED FO ANY PURPOSE OTHER THAN THA AGREED UPON BETWEEN TOSHIBA

N/A

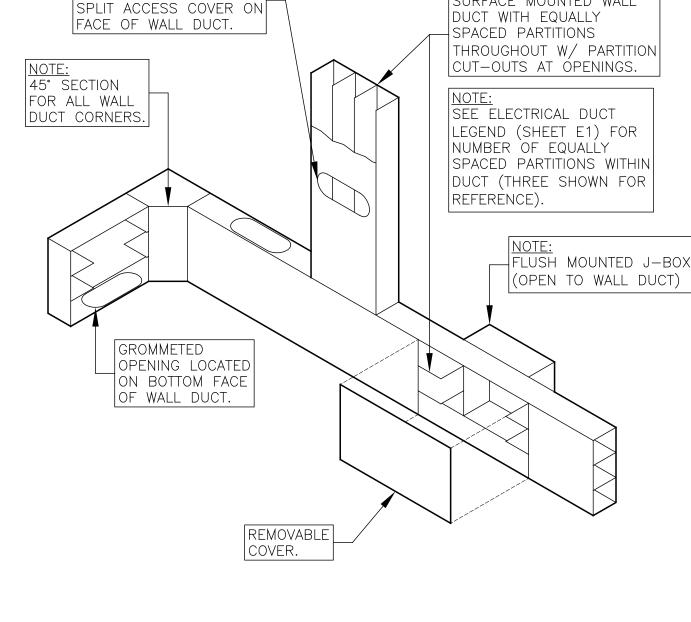
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NOT TO SCALE

130013698CTF

TYPICAL DUCT DETAIL WITH WALL DUCT / J-BOX / VERTICAL RISER

CUSTOMER'S CONTRACTOR TO VERIFY LOCATION OF J—BOX(ES) FOR CABLE PULL TO WALL DUCT. CUSTOMER'S CONTRACTOR TO VERIFY LOCATION OF GROMMETED OPENINGS IN WALL DUCT WITH TOSHIBA REP. GROMMETED OPENING OR SURFACE MOUNTED WALL



AND THE CUSTOMER. THESE SITE PLANS ARE NOT TO BE USE FOR CONSTRUCTION PURPOSES 06-19-13

> C.B.S. PLANNER:

PROJECT NO.

QUOTE:

POWER REQUIREMENTS SCALE: NOT TO SCALE

03-06-13

SCALE: NOT TO SCALE

04-09-13

E3

