

Drawing Index

These sheets are a document set and should not be separated. Electrical information and references are contained on all sheets.

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These drawings indicate the placement and interconnection of the listed equipment components. These drawings are not construction or site preparation drawings. Customer remains ultimately responsible for preparing the site to accommodate the operation of such equipment in compliance with GE Healthcare's written specifications and all applicable federal, state, and/or local requirements.

* REQUIRED REFERENCE *

Discovery STE & RX HP60
Pre Installation Manual

5141127-100

A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference the Pre Installation manual will result in incomplete documentation required for site design and preparation.

Pre Installation documents for GE Healthcare products can be accessed on the web at:

www.gehealthcare.com/siteplanning

GE Healthcare



PET-CT Site Planning



imagination at work

Customer Site Readiness Requirements

- Any deviation from these drawings must be communicated in writing to and reviewed by your local GE Healthcare Installation Project Manager prior to making changes.
- Make arrangements for any rigging, special handling, or facility modifications that must be made to deliver the equipment to the installation site. If desired, your local GE Healthcare Installation Project Manager can supply a reference list of rigging contractors.
- New construction requires the following; 1. Secure area for equipment, 2. Power for drills and other test equipment, 3. Capability for image analysis, 4. Restrooms.
- Provide for refuse removal and disposal (e.g. crates, cartons, packing)
- Contact a radiation physicist or consultant to specify radiation containment requirements.

GE Equipment Delivery Requirements

The items on the GE Healthcare Site Readiness Checklist are REQUIRED to facilitate equipment delivery to the IS site. Equipment will not be delivered if these requirements are not satisfied.

GE Healthcare Site Readiness Checklist Rev 19				
Before using this document ensure you have the latest Rev from MyWorkshop on DOC0422752				
GEHC Global Order #:		Customer:		
GEHC PMI:		FE / Installer:		
The customer is responsible for proper site preparation regardless of any GEHC measurements/inspections/assessments.				
Inspection Date:				
GEHC Minimum Requirements				
	Storage is ready?	PHI is ready?	FE is ready?	Comments if "N", enter comments or action plan
1				MR Magnet Delivery Requirements: Ensure oxygen venting system is available for magnet connection as defined by GEHC Pre-Installation Manual (PIM) requirements; exhaust fan system is installed and operational, 480V power, and chilled water supply is available 24x7 that meets system cooling requirements. External connectivity is available for magnet monitoring and phone service is available during delivery. Surface mount vibromat installed where required. Magnet room final flooring is in place.
2				MR RF Screen Room Requirements: RF Screen Room is tested with copy of Test Report, emailed to: skdmin@GE.com, that it is compliant with GEHC specifications. Back-bolt and magnet anchors (if applicable) installed using 2 part anchor. For HDx systems, blower box mount bolts installed by RF vendor using 2 part anchors.
3				State Regulatory Requirements: Facility registration number provided for states of IL, KY, HI, RI, SC, TX, & WA. X-ray shielding plan and state acknowledgment letter provided to installer for AR, DC, NC, SC, CO.
4				Site Drawing Requirements: Final version of equipment network and antenna, installation drawings (including red lined versions) verified to match actual room and has been provided to installer.
5				Surface Penetration Requirements: Customer/Contractor scheduled to provide required drilling or cutting into floors, ceilings, and walls, OR surface penetration permit available and posted in the room when GEHC will perform the work.
6				Pre-Delivery Route Requirements: The equipment delivery route from the truck to the final destination within the facility has been reviewed with all key stakeholders to safely meet the minimum requirements for equipment access, and all communications/notifications have occurred. Arrangements have been made for special handling (elevator, rigging, floor protection, fork lift, rollback truck, etc).
7				Finished Room Requirements: Rooms that will contain equipment, including storage areas not in scan suite, are dust free. Provisions taken to maintain a dust free room. Precautions must be taken to prevent dust from entering rooms containing equipment when construction is incomplete in adjacent areas. All walls primed (final coat not needed on Day 1). Shielding, doors, and windows are to be installed. No contractor work being done during or after the installation that will cause dust in the installation areas or potential equipment damage. Room security to prevent unauthorized access and theft has been discussed with customer. The customer is aware of these security issues, implications and responsibility. For Storage: Room must meet PIM requirements for storage.
8				Electrical Requirements: Lockable (LOTO) Main Disconnect Panel (MDPI) is installed per GE guidelines and system power is available. Conduits, electrical cable ducting/dividers/cable trays, and access flooring is installed in proper location and height. Surface floor duct and load-side wires can be installed at time of system installation. Validate outlet location and requirements meet specifications for device/equipment.
9				HVAC Requirements: The HVAC/Chilled Water systems designed to maintain the environment per spec/PIM is at running state and appears to provide the desired environmental conditions including location of vents, temperature and humidity for system operation.
10				Flooring Requirements: Floor is clean and prepared for final floor covering. Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications. Confirm customer anchoring plan aligns with designed floor thickness. Final flooring installed where required for network racks.
11				Ceiling Requirements: Unistrut (or equivalent) location, levelness and spacing is measured (or vendor confirmed) and consistent with the requirement of the installation drawings. Ensure unistrut and rails are not used as mounting surfaces. Ceiling grid is installed. Permanent lighting is installed and operational. HVAC diffusers are installed and connected to ductwork. Ceiling tiles installed per PIM discretion.
12				Staging Requirements: Space has been identified to support the active installation process only. This area meets PIM/project book requirements. Storage space has been identified, if needed. This secured space would be used to store equipment indefinitely. If offsite, transportation plan has been developed at customer expense. This space must meet PIM requirements.
13				Network Connectivity: Hardware for network connectivity/network drop is in place prior to delivery with specified network firewall configuration where required. Site surveys for wireless mobile XR units have been completed.
				Medical Gases Requirements: Systems (hard piped or portable) in place to allow testing and calibration of equipment (anesthesia), including ventilation.

GE Healthcare
Healthcare Project Implementation - Design Center
Minneapolis, MN
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SHEET TITLE: SITE READINESS
MODALITY TYPE: DISCOVERY STE
THIS PLAN IS SUBMITTED TO SURVEY LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS. ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS IN PREPARING THIS PLAN. EVERY EFFORT HAS BEEN MADE TO CONFORM TO DETAILS AND DIMENSIONS SHOWN. THE USER OF THIS PLAN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
TYPICAL CT-PET
12-14F

PROJECT	REVISION
12-14f	08
DATE:	08 Jun. 16
DRAWN BY:	DMH
CHECKED BY:	REK

REVISION HISTORY:

SHEET
C1

GE EQUIPMENT LISTING

EQUIPMENT ON ORDER FROM GE HEALTHCARE, INSTALLED BY GE HEALTHCARE, PER : NEITHER A QUOTE OR CON WAS ISSUED AT THE DATE OF THESE DRAWINGS

NOTE: LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDENTIFIED IN THIS CATEGORY BE INSTALLED BY OTHERS.

ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN
①	1		POWER DISTRIBUTION UNIT	800 lbs	3412 btu	B7996L	-	PDU C
②	1		OPERATOR'S CONSOLE / COMPUTER	493 lbs	6901 btu	B7858A	-	CC S
③	1		OPERATOR'S CHAIR				-	-
④	1		STORAGE CABINET (EMPTY CABINET WEIGHT)	99 lbs		M33005	-	-
⑤	1		DISCOVERY STE GANTRY	8137 lbs	34000 btu	B7996ME B7996MF P5056 P5056A P5056B P5056C P5056D	-	CTPT S
⑥	1		PATIENT TABLE (WITHOUT PATIENT)	1854 lbs	699 btu		---	S
⑦	1		DVDRW BDX	11 lbs	221 btu		---	DVD S
⑧	1		UPS SYSTEM	619 lbs	5122 btu	B7864PZ	-	UPS -

ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN
⑨	1		MAIN DISCONNECT CONTROL			P5050R	---	A1 S

THE FOLLOWING ITEMS, WHICH HAVE BEEN ORDERED FROM GE HEALTHCARE, ARE TO BE INSTALLED BY THE CUSTOMER OR HIS CONTRACTOR.

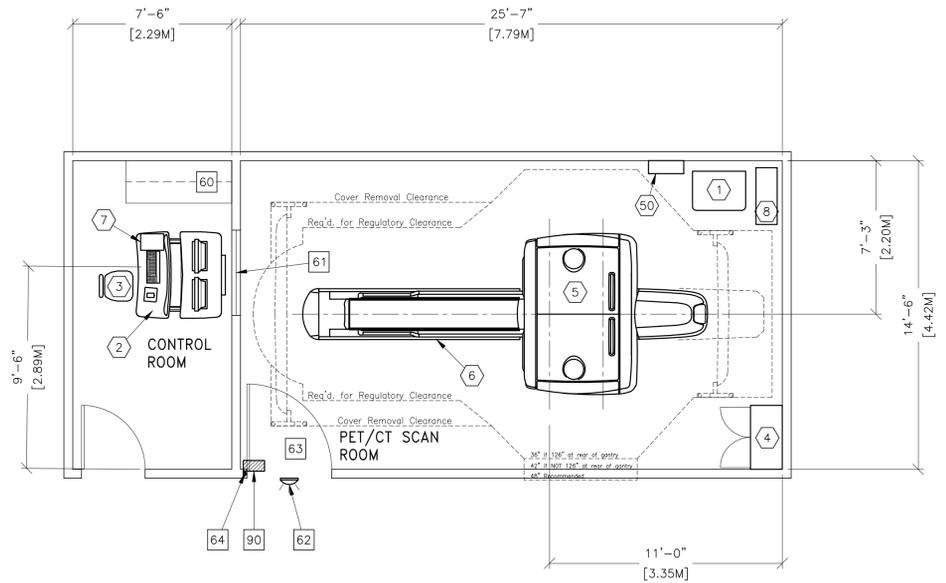
ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN
⑩	1		MAIN DISCONNECT CONTROL			P5050R	---	A1 S

EQUIPMENT LAYOUT SCALE: 1/4" = 1'-0" RECOMMENDED CEILING HEIGHT = 8'-0"

This equipment layout indicates the placement and interconnection of the indicated equipment components. There may be federal, state, and/or local requirements that could impact the placement of these components. It remains the Customer's responsibility for ensuring the site and final equipment placement complies with all applicable federal, state, and/or local requirements.

IMPORTANT CUSTOMER READINESS ALERT:
THIS EQUIPMENT INVOLVES THE USE OF RADIOACTIVE ISOTOPES, INCLUDING THOSE SOURCES NECESSARY FOR EQUIPMENT CALIBRATION. APPROPRIATE REGULATORY COMPLIANCE AND LICENSING MUST BE ARRANGED BY THE CUSTOMER EARLY IN THE PLANNING PROCESS AND THEN DEMONSTRATED/AVAILABLE FOR EQUIPMENT INSTALLATION.

NOTE: DELIVERY PATH DOWN CORRIDORS FOR GANTRY'S AND TABLE MUST BE EVALUATED PRIOR TO CONSTRUCTION, AS 90 DEGREE TURNS REQUIRE SPECIFIC CORRIDOR WIDTH.



ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	COUNTER TOP WITH WALL CABINETS
61	LEAD GLASS WINDOW
62	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL 800-200-9760 GE CAT. NO. WXIABWV-DF-XIU
63	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W X 89 IN. H (1118mm X 2108mm), CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH
64	DOOR LIMIT SWITCH (REQUIRED IN SOUTH CAROLINA, OTHERWISE NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)

THE FOLLOWING ITEMS ARE AVAILABLE FROM GE HEALTHCARE TECHNOLOGIES. CONTACT YOUR LOCAL GE HEALTHCARE SERVICE REPRESENTATIVE FOR PRICING AND AVAILABILITY.

90	X-RAY ROOM WARNING LIGHT CONTROL PANEL REFERENCE JUNCTION POINT W/C ON SHEET 'E1' FOR DETAILED DESCRIPTION -E4502RL FOR WARNING LIGHT CONTROL ONLY.
----	---

GENERAL SPECIFICATIONS

- THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC IS SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS.
- CHECK ALL DOOR OPENINGS AND HALLWAYS FROM DELIVERY LOCATION TO WHERE EQUIPMENT IS TO BE INSTALLED TO ENSURE THE ROUTE PHYSICALLY AND STRUCTURALLY WILL ACCOMMODATE THE EQUIPMENT AS SHIPPED.
- RADIATION PROTECTION REQUIREMENTS ARE NOT INDICATED ON THIS PLAN. WHERE NEEDED PER NATIONAL OR LOCAL CODE THEY SHALL BE SPECIFIED BY A QUALIFIED RADIOLOGICAL PHYSICIST.
- THE DEVELOPMENT OF THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, MECHANICAL AND ELECTRICAL SUGGESTIONS IS PREDICATED UPON THE BEST INFORMATION OBTAINABLE FROM THE SITE, COUPLED WITH THE CUSTOMER'S KNOWN DESIRES. ARCHITECTURAL OR ELECTRICAL CHANGES INCLUDING RELOCATION OF EQUIPMENT ILLUSTRATED ON THIS DRAWING IS ALLOWED ONLY WITH NOTIFICATION, IN WRITING, AND REVIEW BY GEHC SERVICE DEPARTMENT. EQUIPMENT OPERATION, SERVICEABILITY, AND RESTRICTING CABLE LENGTHS, ETC., MAKE THIS ESSENTIAL FOR A PROPER IS. GEHC RESERVES THE RIGHT TO MAKE ON THE JOB CHANGES BECAUSE OF CUSTOMER REQUIREMENTS AND/OR OBSTACLES IN CONSTRUCTION, ETC..
- ALL WORK TO BE IN COMPLIANCE WITH NATIONAL AND LOCAL BUILDING SAFETY CODES.
- DIMENSIONS ARE TO FINISHED SURFACES OF ROOM

SITE ENVIRONMENT SPECIFICATIONS

- AMBIENT OPERATING TEMPERATURE: 65° TO 75° F. (18° TO 24° C) MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 5° F (3° C)/HOUR, MAXIMUM ROOM TEMPERATURE GRADIENT 5° F. (3° C).
- HUMIDITY: 30 TO 60 PERCENT NON-CONDENSING, MAXIMUM ALLOWABLE CHANGE OF 5 PERCENT/HOUR. STATIC CHARGES ASSOCIATED WITH LOWER HUMIDITY LEVELS MAY INTERFERE WITH SYSTEM OPERATION.
- ALTITUDE: NOT TO EXCEED 8,000 FT. (2438M) ABOVE SEA LEVEL.
- DO NOT RESTRICT THE AIR INTAKE OR AIR EXHAUST OF THE SYSTEM COMPONENTS.
- ENVIRONMENTAL CONDITIONS LISTED ABOVE MUST BE MAINTAINED AT ALL TIMES INCLUDING FOR EXAMPLE, OVERTIME, WEEKENDS, AND HOLIDAYS.
- BACKGROUND RADIATION SHOULD BE KEPT TO A MINIMUM. RADIOACTIVE SOURCES MUST BE KEPT IN SHIELDED CONTAINERS AND THE EXAMINATION ROOM SHIELDED FROM EXTERNAL SOURCES.
- DO NOT PLACE PET EQUIPMENT NEAR REGISTERS, WINDOWS OR OTHER COMPONENTS THAT COULD AFFECT TEMPERATURE LEVEL CHANGES IN THE PET EQUIPMENT VICINITY.

MAGNETIC INTERFERENCE SPECIFICATIONS

SCANNER MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 1.0 GAUSS TO GUARANTEE SPECIFIED IMAGING PERFORMANCE.
COMPUTER EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 10 GAUSS TO GUARANTEE DATA INTEGRITY.
DIAGNOSTIC CONSOLE MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 1 GAUSS TO OBTAIN SPECIFIED GEOMETRIC LINEARITY.

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Healthcare Project Implementation - Design Center
Minneapolis, MN

SHEET TITLE: **EQUIPMENT LAYOUT**
MODALITY TYPE: **DISCOVERY STE**

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PROJECT TITLE:
**TYPICAL CT-PET
12-14F**

PROJECT	REVISION
12-14f	08
DATE:	08.Jun.16
DRAWN BY:	DMH
CHECKED BY:	REK

REVISION HISTORY:

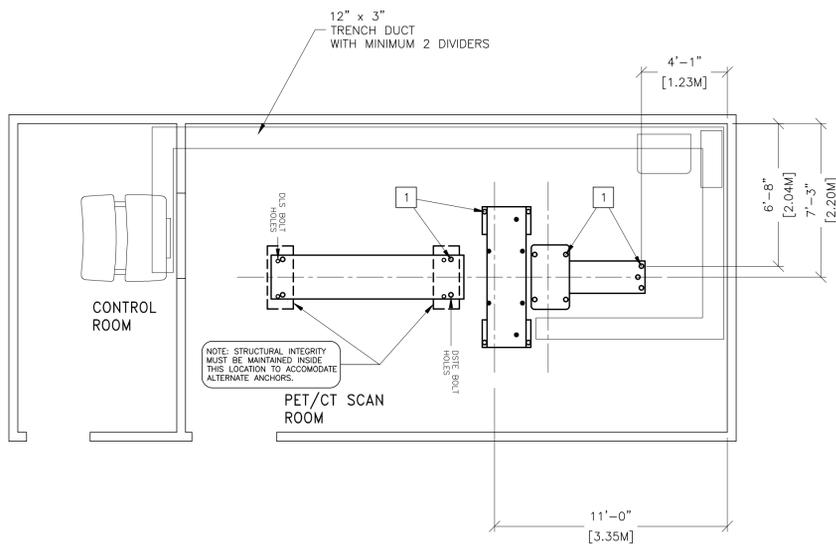
SHEET
A1

TYPICAL WALL SUPPORT ELEVATIONS

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

STRUCTURAL LAYOUT

RECOMMENDED CEILING HEIGHT = 8'-0"



STRUCTURAL SUPPORT METHODS
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	FLOOR CONTACT AREA FOR DISCOVERY ST GANTRY AND PATIENT TABLE. SEE DETAIL P5055 ON SHEET S2 FOR MORE INFORMATION.

STRUCTURAL NOTES

- METHODS OF SUPPORT FOR THE STEELWORK THAT WILL PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE CONCRETE OR MASONRY ANCHORS IN DIRECT TENSION.
- ALL UNITS THAT ARE WALL MOUNTED OR WALL SUPPORTED ARE TO BE PROVIDED WITH SUPPORTS WHERE NECESSARY. WALL SUPPORTS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER OR HIS CONTRACTORS. SEE PLAN AND DETAIL SHEETS FOR SUGGESTED LOCATIONS AND MOUNTING HOLE LOCATIONS.
- ALL CEILING MOUNTED FIXTURES, AIR VENTS, SPRINKLERS, ETC. TO BE FLUSH MOUNTED, OR SHALL NOT EXTEND MORE THAN 6.35mm (1/4") BELOW THE FINISHED CEILING.
- FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 3.00mm (1/8") IN 3050mm (10'-0").
- DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.
- CUSTOMERS CONTRACTOR MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS.
- CUSTOMERS CONTRACTOR MUST PROVIDE AND INSTALL ANY NON-STANDARD ANCHORING. DOCUMENTS FOR STANDARD ANCHORING METHODS ARE INCLUDED WITH GE EQUIPMENT DRAWINGS FOR GEOGRAPHIC AREAS THAT REQUIRE SUCH DOCUMENTATION.
- CUSTOMERS CONTRACTOR MUST PROVIDE AND INSTALL HARDWARE FOR "THROUGH THE FLOOR" ANCHORING AND/OR ANY BRACING UNDER ACCESS FLOORS. THIS CONTRACTOR MUST ALSO PROVIDE FLOOR DRILLING THAT CANNOT BE COMPLETED BECAUSE OF AN OBSTRUCTION ENCOUNTERED WHILE DRILLING BY THE GE INSTALLER SUCH AS REBAR ETC.
- IT IS THE CUSTOMER'S RESPONSIBILITY TO PERFORM ANY FLOOR OR WALL PENETRATIONS THAT MAY BE REQUIRED. THE CUSTOMER IS ALSO RESPONSIBLE FOR ENSURING THAT NO SUBSURFACE UTILITIES (E.G., ELECTRICAL OR ANY OTHER FORM OF WIRING, CONDUITS, PIPING, DUCT WORK OR STRUCTURAL SUPPORTS (I.E. POST TENSION CABLES OR REBAR)) WILL INTERFERE OR COME IN CONTACT WITH SUBSURFACE PENETRATION OPERATIONS (E.G. DRILLING AND INSTALLATION OF ANCHORS/SCREWS) PERFORMED DURING THE INSTALLATION PROCESS. TO ENSURE WORKER SAFETY, GE INSTALLERS WILL PERFORM SURFACE PENETRATION OPERATIONS ONLY AFTER THE CUSTOMER'S VALIDATION AND COMPLETION OF THE "GE SURFACE PENETRATION PERMIT"

SHEET TITLE: STRUCTURAL LAYOUT
MODALITY TYPE: DISCOVERY STE

THIS PLAN IS SUBMITTED TO SUPPORT LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO CUSTOMER'S REQUIREMENTS. TO THE EXTENT POSSIBLE, THE COMPANY HAS USED OR OBTAINED ALL NECESSARY PERMITS AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
TYPICAL CT-PET
12-14F

PROJECT	REVISION
12-14f	08

DATE: 08.Jun.16
DRAWN BY: DMH
CHECKED BY: REK

REVISION HISTORY:

SHEET
S1

GE Healthcare
Healthcare Project Implementation - Design Center
Milwaukee, Wisconsin

FLOOR MOUNTING DETAIL: DISCOVERY ST INSTALLATION METHODS

P5055

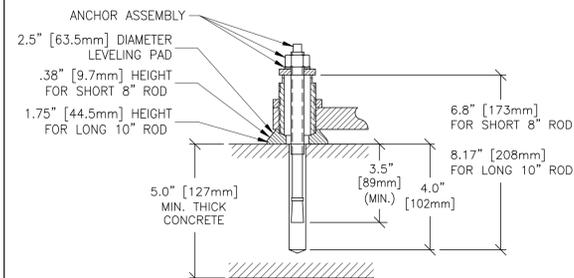
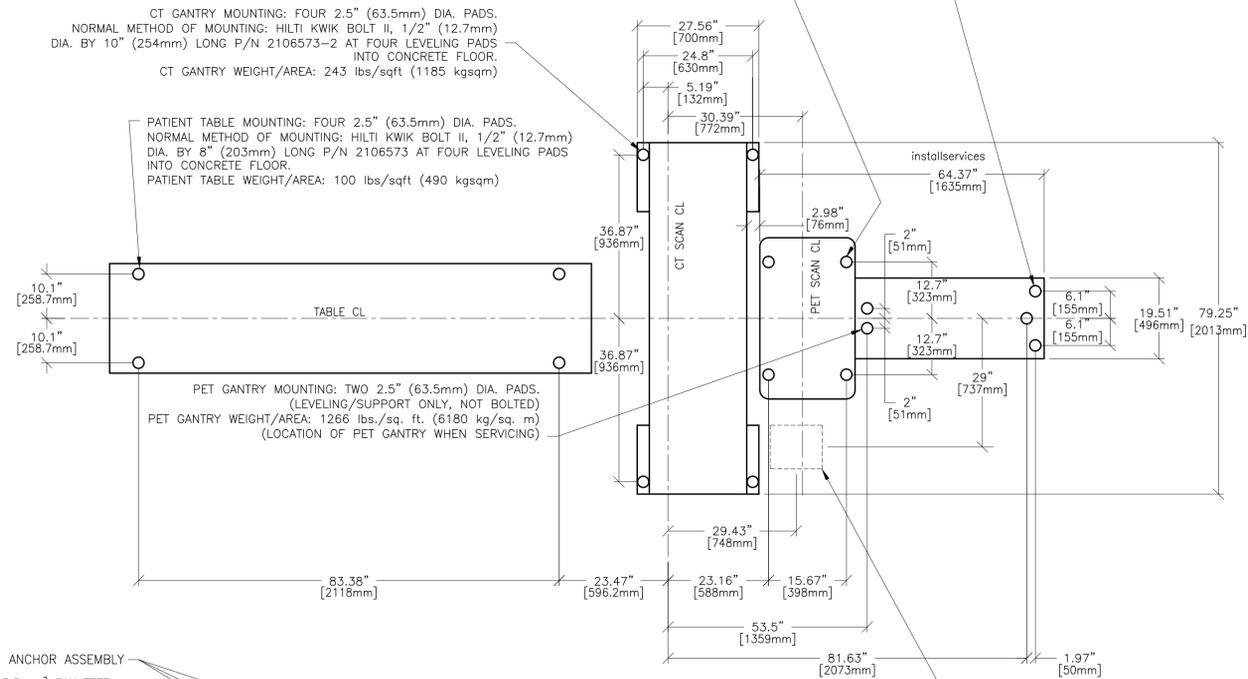
REV. DATE: 02/19/08

PET GANTRY MOUNTING: THREE 2.5" (63.5mm) DIA. PADS.
 NORMAL METHOD OF MOUNTING: HILTI KWIK BOLT II, 1/2" (12.7mm)
 DIA. BY 8" (203mm) LONG P/N 2106573 AT THREE LEVELING PADS
 INTO CONCRETE FLOOR.
 PET GANTRY WEIGHT/AREA: 1266 lbs./sqft (6180 kgsqm)
 (LOCATION OF PET GANTRY WHEN SERVICING)

PET GANTRY MOUNTING: FOUR 2.5" (63.5mm) DIA. PADS.
 NORMAL METHOD OF MOUNTING: HILTI KWIK BOLT II, 1/2" (12.7mm)
 DIA. BY 8" (203mm) LONG P/N 2106573 AT FOUR LEVELING PADS
 INTO CONCRETE FLOOR.
 PET GANTRY WEIGHT/AREA: 1266 lbs./sqft (6180 kgsqm)
 (LOCATION OF PET GANTRY WHEN SCANNING)

CT GANTRY MOUNTING: FOUR 2.5" (63.5mm) DIA. PADS.
 NORMAL METHOD OF MOUNTING: HILTI KWIK BOLT II, 1/2" (12.7mm)
 DIA. BY 10" (254mm) LONG P/N 2106573-2 AT FOUR LEVELING PADS
 INTO CONCRETE FLOOR.
 CT GANTRY WEIGHT/AREA: 243 lbs./sqft (1185 kgsqm)

PATIENT TABLE MOUNTING: FOUR 2.5" (63.5mm) DIA. PADS.
 NORMAL METHOD OF MOUNTING: HILTI KWIK BOLT II, 1/2" (12.7mm)
 DIA. BY 8" (203mm) LONG P/N 2106573 AT FOUR LEVELING PADS
 INTO CONCRETE FLOOR.
 PATIENT TABLE WEIGHT/AREA: 100 lbs./sqft (490 kgsqm)



CABLE ACCESS AREA, 11.81" (300mm) by 9.84" (250mm)

SUPPORT AREAS OF THE PATIENT TABLE AND GANTRY
 MUST REST ON AT LEAST 5" (127MM) OF SOLID CONCRETE.
 REFER TO PRE-INSTALLATION MANUAL FOR COMPLETE SITING REQUIREMENTS.

DETAIL NOT TO SCALE

SHEET TITLE: STRUCTURAL DETAILS
 MODALITY TYPE: DISCOVERY STE

THIS PLAN IS SUBMITTED TO SUPPORT LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE PROJECT SPECIFICATIONS, TO THE PROJECT MANUAL, TO THE USBC OR IBC (AS APPLICABLE) AND TO THE COMPANY'S POLICY AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
 TYPICAL CT-PET
 12-14F

PROJECT	REVISION
12-14f	08

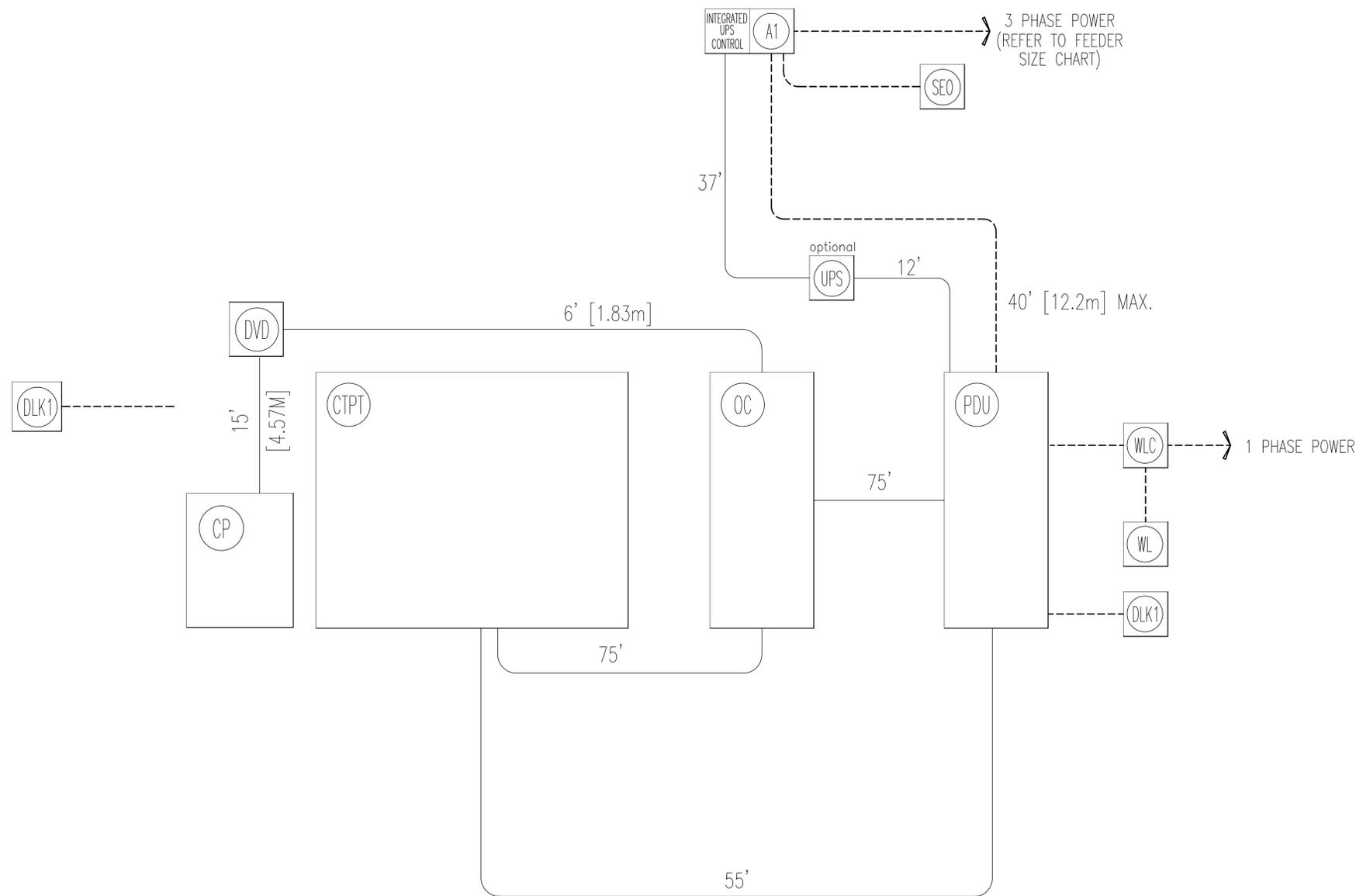
DATE: 08.Jun.16
 DRAWN BY: DMH
 CHECKED BY: REK

REVISION HISTORY:

SHEET
 S2

GE Healthcare
 Healthcare Project Implementation - Design Center
 Milwaukee, Wisconsin

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

Discovery ST HP-60

(REV. DATE 12Apr.11)

VOLTAGE PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, 50 OR 60 HZ. REQUIRED POWER SUPPLY: WYE CONNECTED. MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.

TABLE A ALLOWABLE INPUT VOLTAGES/CURRENT DEMAND

NOMINAL VOLTAGE	ABSOLUTE RANGE	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION
		MOMENTARY	CONTINUOUS	
380	342-418	137	30	110-A
400	360-440	130	29	110-A
420	378-462	124	27	110-A
440	396-484	118	26	90-A
460	414-506	113	25	90-A
480	432-528	108	24	90-A

(ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE)

PHASE-BALANCE. PHASE-TO-PHASE VOLTAGES MUST BE WITHIN ±2 PERCENT OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ARE 2.5 PERCENT OF RATED LINE VOLTAGE AT A MAXIMUM DURATION OF 1 CYCLE AND FREQUENCY OF 10 TIMES PER HOUR.

VOLTAGE TRANSIENT OR IMPULSE ON THE INCOMING POWER MUST BE HELD TO A MINIMUM. TRANSIENTS CAUSED BY LIGHTNING, SURGES, LOAD SWITCHING, STATIC ELECTRICITY ETC. CAN CAUSE SCAN ABORTS OR, IN EXTREME INSTANCES, COMPONENT FAILURE IN THE COMPUTER SUBSYSTEM.

POWER DEMAND

CONTINUOUS POWER DEMAND = 34 KVA (MAX DEMAND = 90 KVA)

TABLE B MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	Discovery ST
kVa *	90
POWER FACTOR AT	0.85

* DEMAND INCLUDES POWER FOR ENTIRE CT SYSTEM. LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND MUST BE LESS THAN OR EQUAL TO 6 PERCENT.

DISTRIBUTION TRANSFORMER

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 112.5 KVA. GE DOES NOT RECOMMEND USING A REGULATION DEVICE.

NOTE: THE CT SYSTEM MUST NOT BE POWERED IN A MULTIPLE INSTALLATION WHERE FILM CHANGERS ARE USED. FILM CHANGERS UTILIZE A LARGE NUMBER OF HIGH POWERED CLOSELY SPACED EXPOSURES WHICH MAY COINCIDE WITH THE CT SCAN.

ELECTRICAL NOTES

- NOTE 1: ALL WIRES SPECIFIED SHALL BE COPPER STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS. ALL CONDUCTORS, POWER, SIGNAL AND GROUND, MUST BE RUN IN A CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER STRANDED AND FREE FROM SPLICES. ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.
- NOTE 2: WIRE SIZES GIVEN ARE FOR USE OF EQUIPMENT. LARGER SIZES MAY BE REQUIRED BY LOCAL CODES.
- NOTE 3: IT IS RECOMMENDED THAT ALL WIRES BE COLOR CODED, AS REQUIRED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- NOTE 4: CONDUIT SIZES SHALL BE VERIFIED BY THE ARCHITECT, ELECTRICAL ENGINEER OR CONTRACTOR, IN ACCORDANCE WITH LOCAL OR NATIONAL CODES.
- NOTE 5: CONVENIENCE OUTLETS ARE NOT ILLUSTRATED. THEIR NUMBER AND LOCATION ARE TO BE SPECIFIED BY OTHERS. LOCATE AT LEAST ONE CONVENIENCE OUTLET CLOSE TO THE SYSTEM CONTROL, THE POWER DISTRIBUTION UNIT AND ONE ON EACH WALL OF THE PROCEDURE ROOM. USE HOSPITAL APPROVED OUTLET OR EQUIVALENT.
- NOTE 6: GENERAL ROOM ILLUMINATION IS NOT ILLUSTRATED. CAUTION SHOULD BE TAKEN TO AVOID EXCESSIVE HEAT FROM OVERHEAD SPOTLIGHTS. DAMAGE CAN OCCUR TO CEILING MOUNTING COMPONENTS AND WIRING IF HIGH WATTAGE BULBS ARE USED. RECOMMEND LOW WATTAGE BULBS NO HIGHER THAN 75 WATTS AND USE DIMMER CONTROLS (EXCEPT MR). DO NOT MOUNT LIGHTS DIRECTLY ABOVE AREAS WHERE CEILING MOUNTED ACCESSORIES WILL BE PARKED.
- NOTE 7: ROUTING OF CABLE DUCTWORK, CONDUITS, ETC., MUST RUN DIRECT AS POSSIBLE OTHERWISE MAY RESULT IN THE NEED FOR GREATER THAN STANDARD CABLE LENGTHS (REFER TO THE INTERCONNECTION DIAGRAM FOR MAXIMUM USABLE LENGTHS POINT TO POINT).
- NOTE 8: CONDUIT TURNS TO HAVE LARGE, SWEEPING BENDS WITH MINIMUM RADIUS IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- NOTE 9: A SPECIAL GROUNDING SYSTEM IS REQUIRED IN ALL PROCEDURE ROOMS BY SOME NATIONAL AND LOCAL CODES. IT IS RECOMMENDED IN AREAS WHERE PATIENTS MIGHT BE EXAMINED OR TREATED UNDER PRESENT, FUTURE, OR EMERGENCY CONDITIONS. CONSULT THE GOVERNING ELECTRICAL CODE AND CONFER WITH APPROPRIATE CUSTOMER ADMINISTRATIVE PERSONNEL TO DETERMINE THE AREAS REQUIRING THIS TYPE OF GROUNDING SYSTEM.
- NOTE 10: THE MAXIMUM POINT TO POINT DISTANCES ILLUSTRATED ON THIS DRAWING MUST NOT BE EXCEEDED.
- NOTE 11: PHYSICAL CONNECTION OF PRIMARY POWER TO GE EQUIPMENT IS TO BE MADE BY CUSTOMERS ELECTRICAL CONTRACTOR WITH THE SUPERVISION OF A GE REPRESENTATIVE. THE GE REPRESENTATIVE WOULD BE REQUIRED TO IDENTIFY THE PHYSICAL CONNECTION LOCATION, AND INSURE PROPER HANDLING OF GE EQUIPMENT.
- NOTE 12: GEHC CONDUCTS POWER AUDITS TO VERIFY QUALITY OF POWER BEING DELIVERED TO THE SYSTEM. THE CUSTOMER'S ELECTRICAL CONTRACTOR IS REQUIRED TO BE AVAILABLE TO SUPPORT THIS ACTIVITY.

DIAGRAM KEY

- CUSTOMER/CONTRACTOR SUPPLIED WIRING. ROUTE IN ADEQUATE CONDUIT OR RACEWAY.
- GE FURNISHED CABLE RUNS. ROUTE IN EMPTY CONDUIT OR RACEWAY.
- 59' [18M] MAXIMUM RUN LENGTH BETWEEN JUNCTION POINTS. Feet, [Meters]

GE Healthcare
Healthcare Project Implementation - Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS
MODALITY TYPE: DISCOVERY STE

THIS PLAN IS SUBMITTED TO SURVEY LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND THE COMPANY'S ACTING ELECTRICAL ENGINEER'S REVISIONS. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
**TYPICAL CT-PET
12-14F**

PROJECT	REVISION
12-14f	08
DATE:	08.Jun.16
DRAWN BY:	DMH
CHECKED BY:	REK

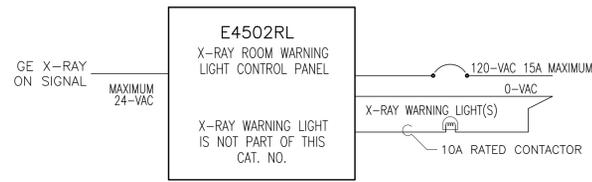
REVISION HISTORY:

SHEET
E2

PIM R10

ELECTRICAL DETAIL
WARNING LIGHT DIAGRAM

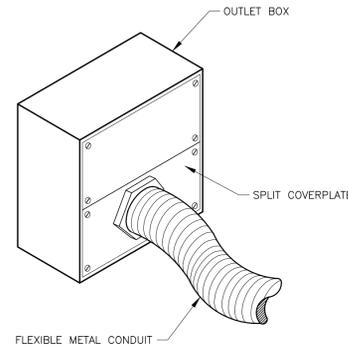
ELEC-72
REV. DATE: 05/14/09



UNLESS SPECIFIED ON SHEET A1 AS BEING INCLUDED ON EQUIPMENT ORDER, ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER'S CONTRACTOR
DRAWING NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH SPLIT COVERPLATE (TYPICAL)

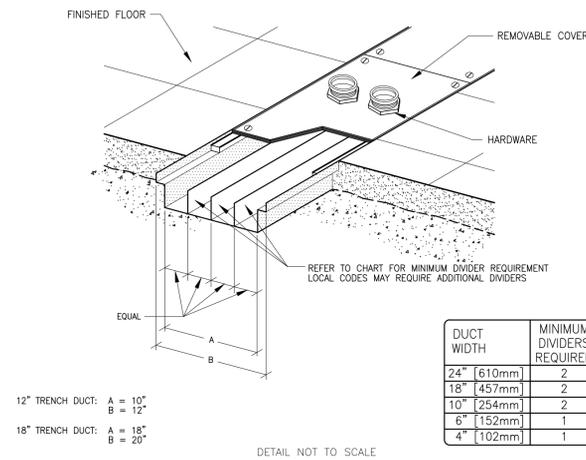
ELEC-22
REV. DATE: 10/13/94



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
FLUSH FLOOR DUCT (TYPICAL)

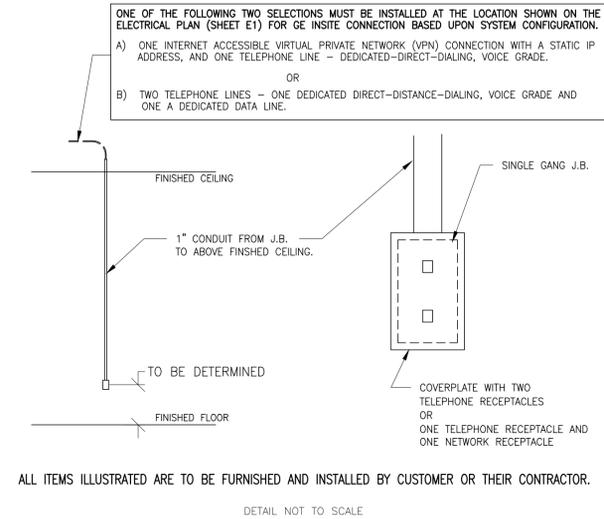
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REV. DATE: 4/01/04



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
INSITE CONNECTION (TYPICAL)

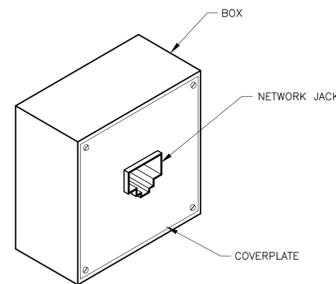
ELEC-1
REV. DATE: 04/24/02



ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.
DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH COVERPLATE AND NETWORK JACK

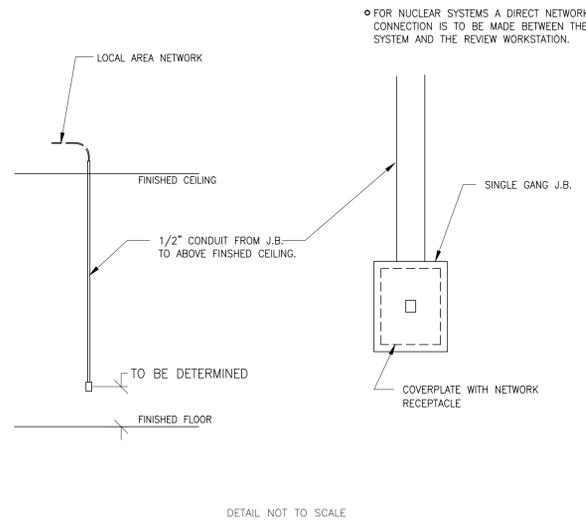
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REV. DATE: 10/06/98



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
NETWORK CONNECTION (TYPICAL)

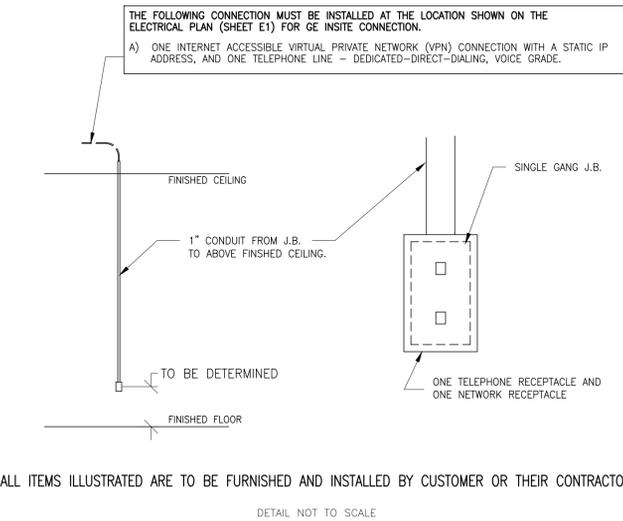
ELEC-84
REV. DATE: 03/06/04



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BROADBAND CONNECTION (TYPICAL)

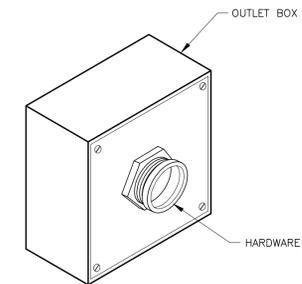
ELEC-133
REV. DATE: 03/15/04



ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.
DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH COVERPLATE (TYPICAL)

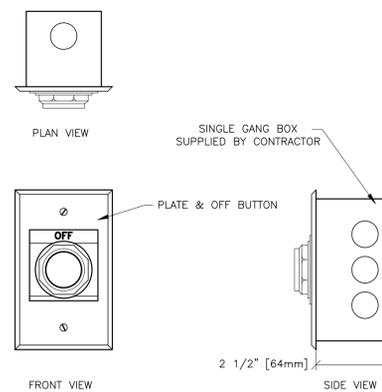
ELEC-8
REV. DATE: 09/30/94



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
EMERGENCY OFF BUTTON

ELEC-16
REV. DATE: 05/14/09



DETAIL NOT TO SCALE

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Healthcare Project Implementation - Design Center
Milwaukee, Wisconsin

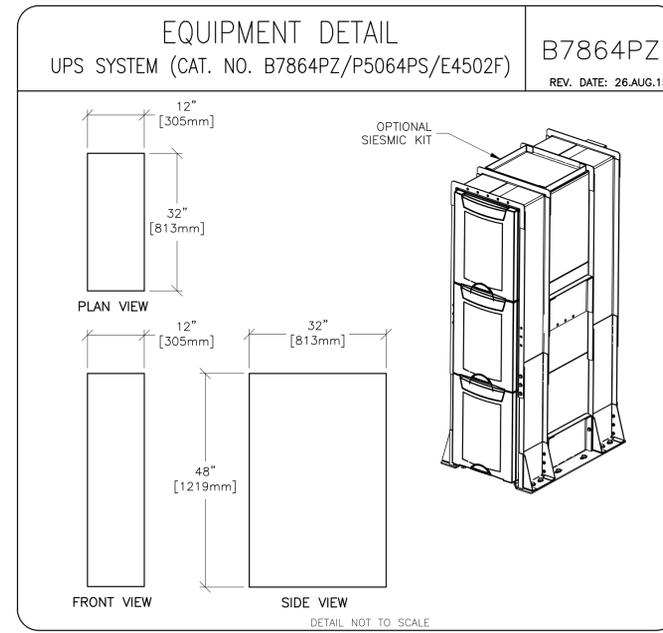
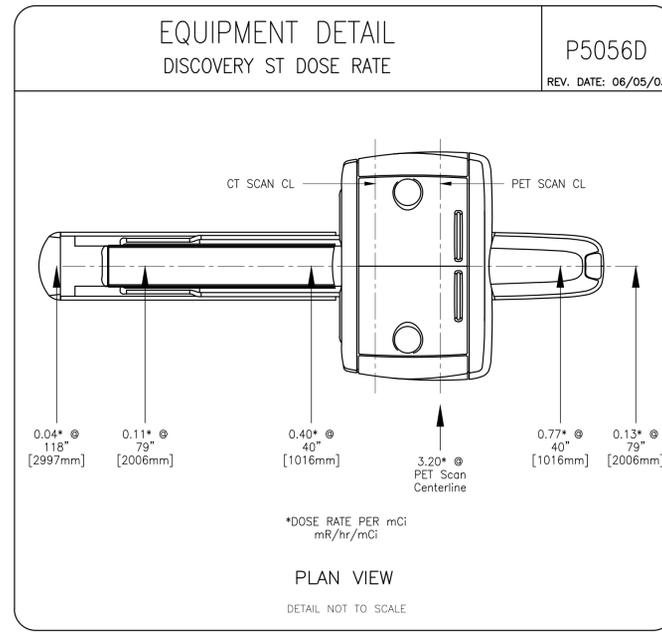
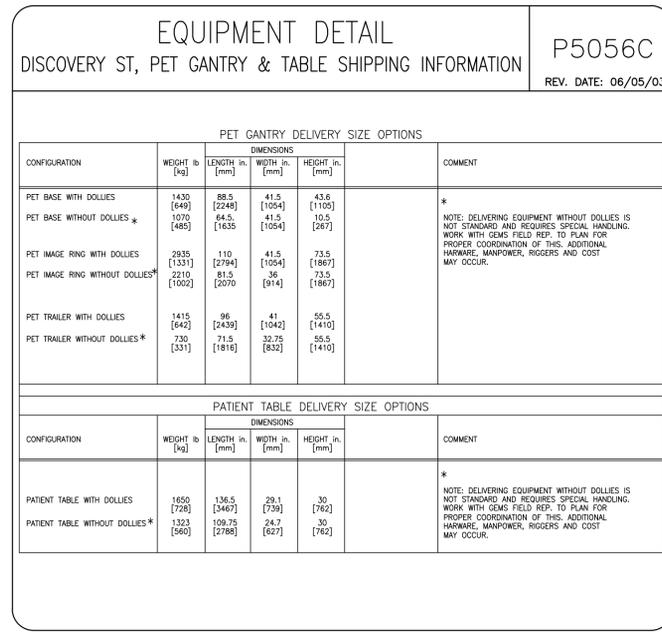
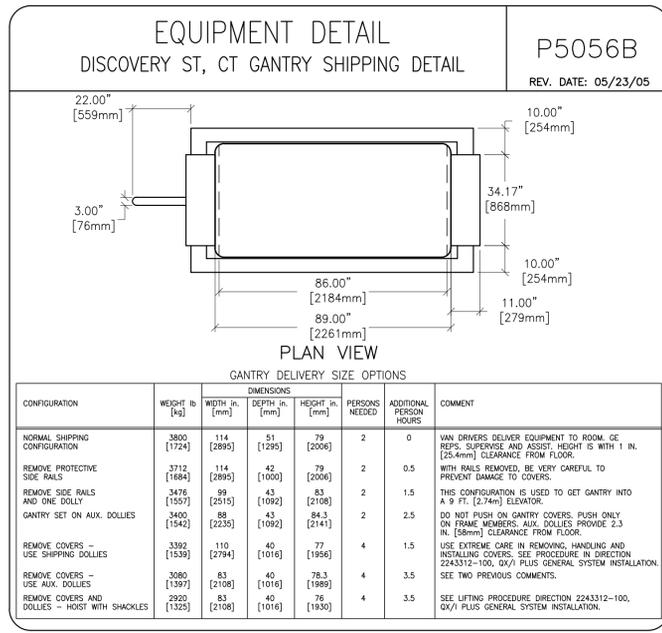
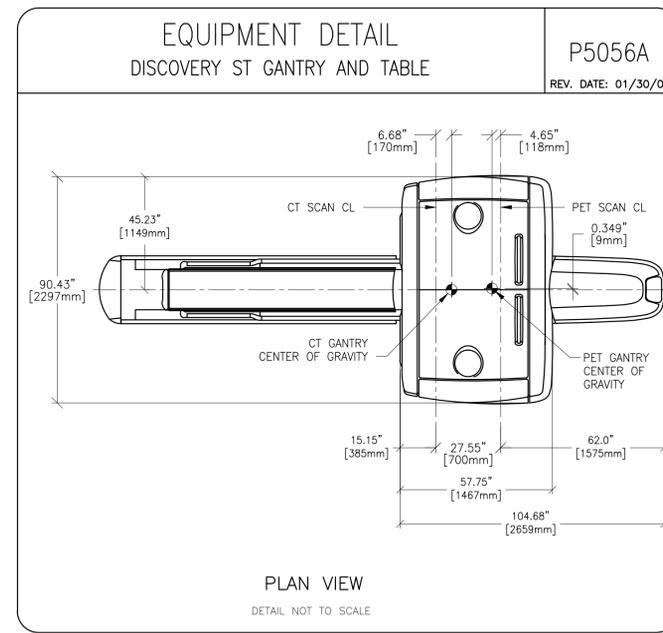
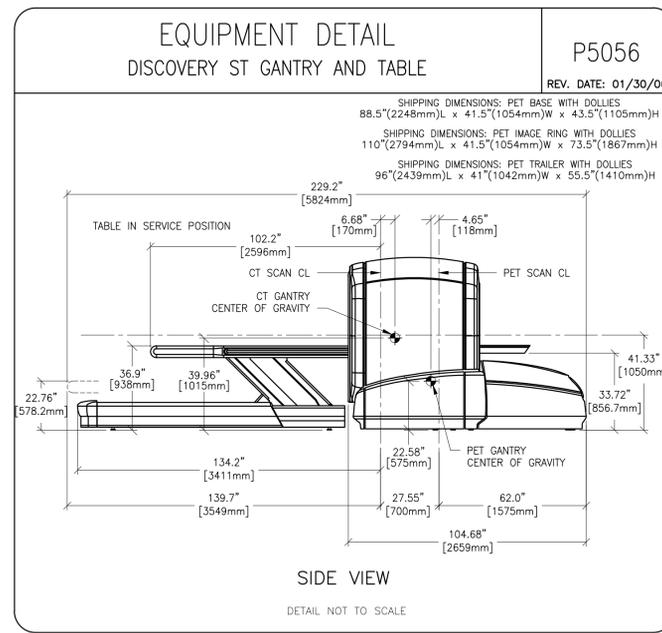
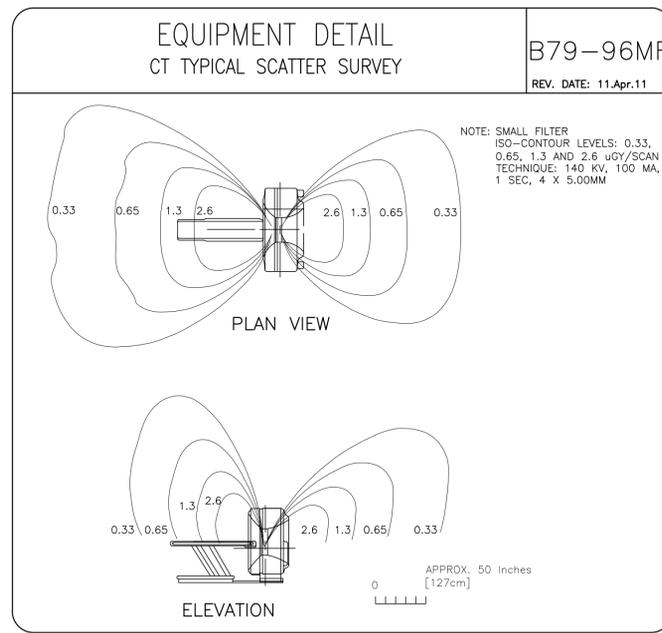
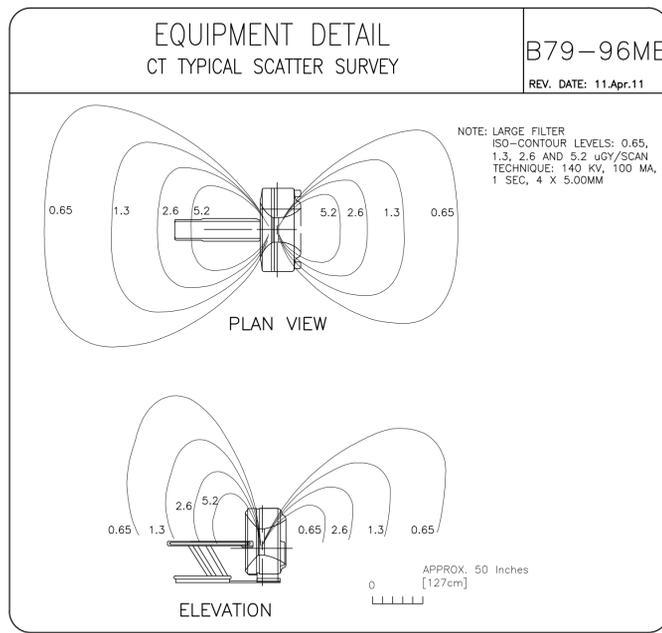
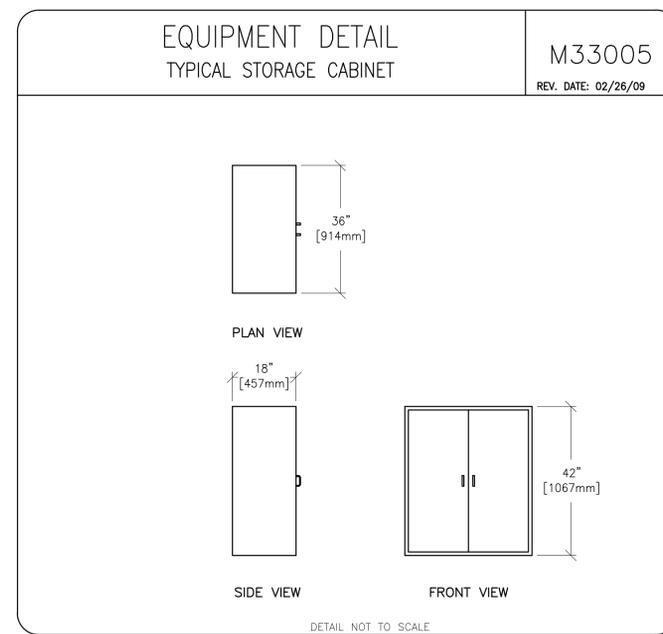
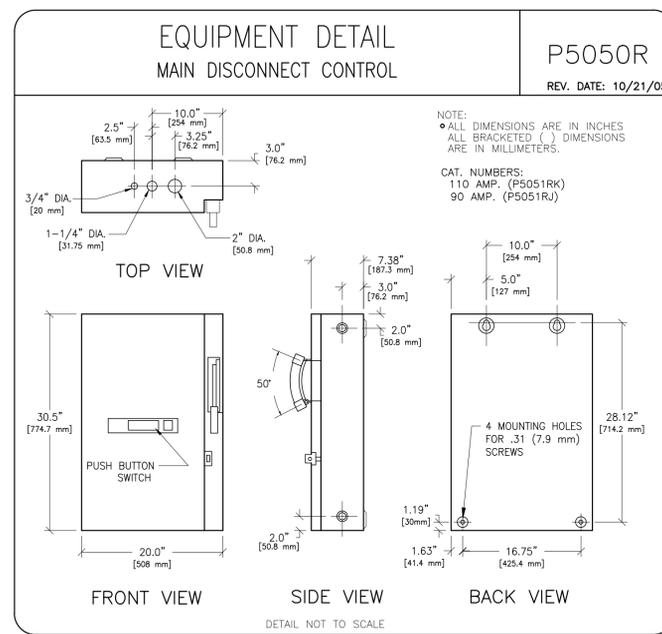
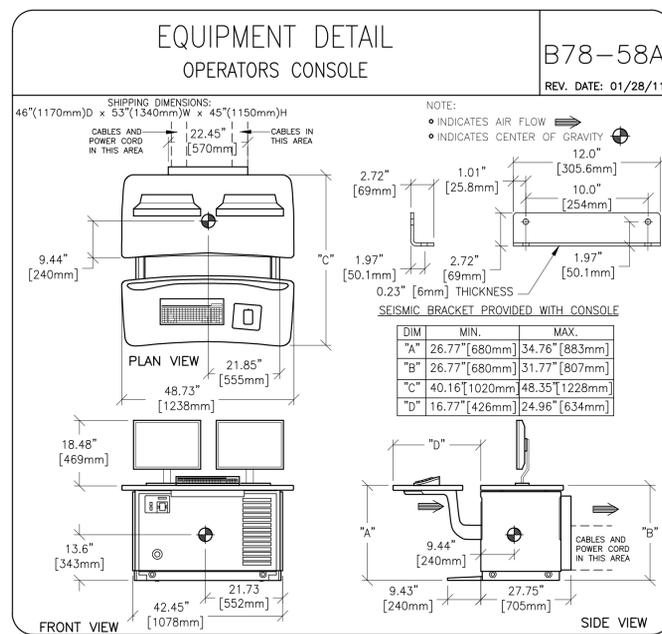
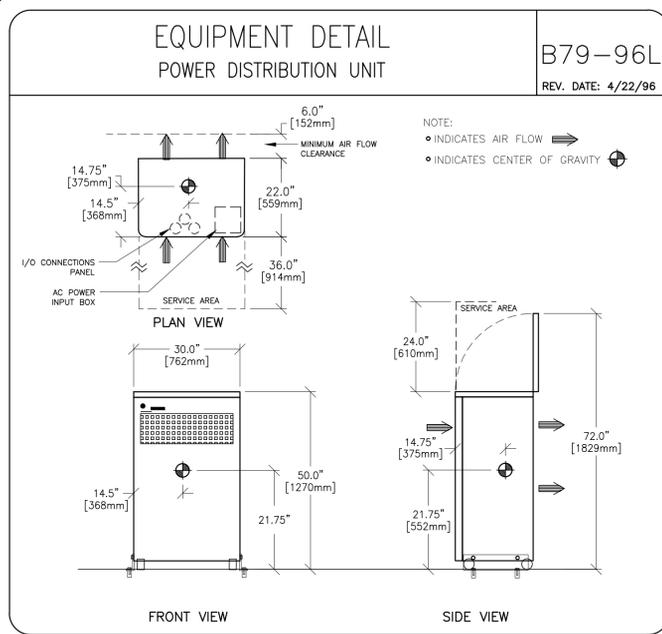
SHEET TITLE: ELECTRICAL DETAILS
MODALITY TYPE: DISCOVERY STE
THIS PLAN IS SUBMITTED TO SURVEY LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE ACTUAL CONSTRUCTION. GE HEALTHCARE, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
TYPICAL CT-PET
12-14F

PROJECT	REVISION
12-14f	08
DATE:	08.Jun.16
DRAWN BY:	DMH
CHECKED BY:	REK

REVISION HISTORY:

SHEET
E3



GE Healthcare
Healthcare Project Implementation - Design Center
Minneapolis, Minnesota

SHEET TITLE: EQUIPMENT DETAILS
MODALITY TYPE: DISCOVERY STE

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE REQUIREMENTS OF THE PROJECT. GE HEALTHCARE DOES NOT ACCEPT LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: TYPICAL CT-PET
12-14F

PROJECT	REVISION
12-14f	08

DATE: 08.Jun.16
DRAWN BY: DMH
CHECKED BY: REK

REVISION HISTORY:

SHEET
D1

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED