Attachment 3

ELECTRICAL DRAWING LIST

DWG NO	DESCRIPTION:	SCALE	(SB) SOUTH BUILDING	(MB) MAIN BUILDING	(NB) NORTH BUILDING	(PP) POWER PLANT	(AH) AUGUSTA HENES BUILDING	(MR) MRI BUILDING	(BX) BAXTER BUILDING	(CY) COURTYARD BUILDING	(RB) RADIOLOGY BUILDING	(GB) NEW GENERATOR BUILDING	7/30/2014 100% SD	12/17/2014 85% CD	4/29/2015 100% CD PROGRESS FOR REVIEW	12/04/2017 CONSTRUCTION COST ESTIMATE & BENEFIT COST ANALYSIS
E001	ELECTRICAL DRAWING LIST SHEET #1	NONE											●	●	●	●
E002	ELECTRICAL DRAWING LIST SHEET #2	NONE											●			●
E003	LEGEND, SYMBOL AND ABBREVIATIONS	NONE											●	●	●	●
E004	ELECTRICAL NOTES, ALTERNATES AND OUTSTANDING ITEMS	NONE												●	●	●
E005	ELECTRICAL SCOPE OF WORK SUMMARY	NONE											●	●	●	●
E010	NEW EMERGENCY GENERATOR CENTRAL PLANT SITE PLAN	NONE											●	●	●	●
E020	ELECTRICAL FEEDER ROUTING OVERALL ROOF PLAN	AS NOTED											●	●	●	●
E201	NEW CENTRAL GENERATOR PLANT EXISTING UTILITY DEMOLITION	NONE											●	●	●	●
E210	FIRST FLOOR OVERALL – EXISTING AND DEMOLITION	1/32"=1'-0"											●	●	●	●
E211-SB	FIRST FLOOR PLAN EXISTING AND DEMOLITION PART 1 – SOUTH BUILDING	1/8"=1'-0"											●	●	●	●
E212-MB	FIRST FLOOR PLAN EXISTING AND DEMOLITION PART 2 – MAIN BUILDING	1/8"=1'-0"											●	●	●	●
E213-NB	FIRST FLOOR PLAN EXISTING AND DEMOLITION PART 3 – NORTH BUILDING	1/8"=1'-0"											●	●	●	●
E214-PP	FIRST FLOOR PLAN EXISTING AND DEMOLITION PART 4 – POWER PLANT	1/8"=1'-0"											●	●	●	●
E215-AH	FIRST FLOOR PLAN EXISTING AND DEMOLITION PART 5 – A. HENES	1/8"=1'-0"											●	●	●	●
E216-MR	FIRST FLOOR PLAN EXISTING AND DEMOLITION PART 6 – MRI	1/8"=1'-0"											●	●	●	●
E217-BX	FIRST FLOOR PLAN EXISTING AND DEMOLITION PART 7 BAXTER	3/32"=1'-0"											●	●	●	●
E218-CY	FIRST FLOOR PLAN EXISTING AND DEMOLITION PART 8 – COURTYARD	1/8"=1'-0"											●	●	●	●
E219-RD	FIRST FLOOR PLAN NEW WORK PART 9 – CATH LAB AND RAD	1/8"=1'-0"											●	●	●	●
E220	SECOND FLOOR OVERALL – EXISTING AND DEMOLITION	1/32"=1'-0"											●	●	●	●
E221-SB	SECOND FLOOR PLAN EXISTING AND DEMOLITION PART 1 – SOUTH BUILDING	1/8"=1'-0"												●	●	●
E222-MB	SECOND FLOOR PLAN EXISTING AND DEMOLITION PART 2 – MAIN BUILDING	1/8"=1'-0"													●	●
E223-NB	SECOND FLOOR PLAN EXISTING AND DEMOLITION PART 3 – NORTH BUILDING	1/8"=1'-0"														
E224-PP	SECOND FLOOR PLAN EXISTING AND DEMOLITION PART 4 – POWER PLANT	1/8"=1'-0"											●	●	●	●
E225-AH	SECOND FLOOR PLAN EXISTING AND DEMOLITION PART 5 – A. HENES	1/8"=1'-0"														
E226-MR	SECOND FLOOR PLAN EXISTING AND DEMOLITION PART 6 – MRI	1/8"=1'-0"												●		●
E227-BX	SECOND FLOOR PLAN EXISTING AND DEMOLITION PART 7 BAXTER	1/8"=1'-0"														
E228-CY	SECOND FLOOR PLAN EXISTING AND DEMOLITION PART 8 – COURTYARD	1/8"=1'-0"													●	●
E229-RB	SECOND FLOOR PLAN NEW WORK PART 9 – CATH LAB AND RAD	1/8"=1'-0"											●	●	●	●
E230	THIRD FLOOR OVERALL – EXISTING AND DEMOLITION	1/16"=1'-0"													●	●
E231-SB	THIRD FLOOR PLAN EXISTING AND DEMOLITION PART 1 – SOUTH BUILDING	1/8"=1'-0"													●	●
E232-MB	THIRD FLOOR PLAN EXISTING AND DEMOLITION PART 2 – MAIN BUILDING	3/32"=1'-0"													●	●
E233-NB	THIRD FLOOR PLAN EXISTING AND DEMOLITION PART 3 – NORTH BUILDING	1/8"=1'-0"													●	●
E240	FOURTH FLOOR OVERALL – EXISTING AND DEMOLITION	1/16"=1'-0"													●	●
E241-NB	FOURTH FLOOR PLAN EXISTING AND DEMOLITION PART 1 – SOUTH BUILDING	1/8"=1'-0"													●	●
E242-MB	FOURTH FLOOR PLAN EXISTING AND DEMOLITION PART 2 – MAIN BUILDING	1/8"=1'-0"													●	●
E243-NB	FOURTH FLOOR PLAN EXISTING AND DEMOLITION PART 3 – NORTH BUILDING	1/8"=1'-0"														
E250	FIFTH FLOOR OVERALL – EXISTING AND DEMOLITION	1/16"=1'-0"														
E251-MB	FIFTH FLOOR PLAN EXISTING AND DEMOLITION PART 1 – MAIN BUILDING	1/8"=1'-0"														
E252-NB	FIFTH FLOOR PLAN EXISTING AND DEMOLITION PART 2 – NORTH BUILDING	1/8"=1'-0"														
E260	SIXTH FLOOR OVERALL – EXISTING AND DEMOLITION	1/16"=1'-0"											●	●	●	●
E261-MB	SIXTH FLOOR PLAN EXISTING AND DEMOLITION PART 1 – MAIN BUILDING	1/8"=1'-0"												●	●	●
															●	●
E270	SEVENTH FLOOR OVERALL – EXISTING AND DEMOLITION	1/16"=1'-0"											●	●	●	●
E271-MB	SEVENTH FLOOR PLAN EXISTING AND DEMOLITION – MAIN BUILDING	1/8"=1'-0"											●	●	●	●
E280	EIGHTH FLOOR OVERALL PLAN – EXISTING AND DEMOLITION MAIN BUILDING	1/8"=1'-0"														
E290	NINTH FLOOR OVERALL PLAN – EXISTING AND DEMOLITION MAINB ULDING	1/8"=1'-0"														
E301-GB	FIRST FLOOR PLAN NEW WORK – EMERGENCY GENERATOR PLANT	1/16"=1'-0"											●	●	●	●
E302-GB	SECOND FLOOR PLAN NEW WORK – EMERGENCY GENERATOR PLANT	1/8"=1'-0"											●	●	●	●
E303-GB	THIRD FLOOR PLAN NEW WORK – EMERGENCY GENERATOR PLANT	1/8"=1'-0"											●	●	●	●
E304-GB	ROOF PLAN NEW WORK – EMERGENCY GENERATOR PLANT	1/8"=1'-0"											●	●	●	●
			(SB) SOUTH BUILDING	(MB) MAIN BUILDING	(NB) NORTH BUILDING	(PP) POWER PLANT	(AH) AUGUSTA HENES BUILDING	(MR) MRI BUILDING	(BX) BAXTER BUILDING	(CY) COURTYARD BUILDING	(RB) RADIOLOGY BUILDING	(GB) NEW GENERATOR BUILDING				

ELECTRICAL DRAWING LIST

DWG NO	DESCRIPTION:	SCALE	(SB) SOUTH BUILDING	(MB) MAIN BUILDING	(NB) NORTH BUILDING	(PP) POWER PLANT	(AH) AUGUSTA HENES BUILDING	(MR) MRI BUILDING	(BX) BAXTER BUILDING	(CY) COURTYARD BUILDING	(RB) RADIOLOGY BUILDING	(GB) NEW GENERATOR BUILDING	7/30/2014 100% SD	12/17/2014 85% CD	4/29/2015 100% CD PROGRESS FOR REVIEW	12/04/2017 CONSTRUCTION COST ESTIMATE & BENEFIT COST ANALYSIS
E310	FIRST FLOOR OVERALL – NEW WORK	1/32"=1'-0"											●	●	●	●
E311-SB	FIRST FLOOR PLAN NEW WORK PART 1 – SOUTH BUILDING	1/8"=1'-0"											●	●	●	●
E312-MB	FIRST FLOOR PLAN NEW WORK PART 2 – MAIN BUILDING	1/8"=1'-0"														
E313-NB	FIRST FLOOR PLAN NEW WORK PART 3 – NORTH BUILDING	1/8"=1'-0"														
E314-PP	FIRST FLOOR PLAN NEW WORK PART 4 – POWER PLANT	1/8"=1'-0"											●	●	●	●
E315-AH	FIRST FLOOR PLAN NEW WORK PART 5 – A. HENES	1/8"=1'-0"											●	●	●	●
E316-MR	FIRST FLOOR PLAN NEW WORK PART 6 – MRI	1/8"=1'-0"											●	●	●	●
E317-BX	FIRST FLOOR PLAN NEW WORK PART 7 BAXTER	1/8"=1'-0"												●	●	●
E318-CY	FIRST FLOOR PLAN NEW WORK PART 8 – COURTYARD	1/8"=1'-0"											●	●	●	●
E319-RB	FIRST FLOOR PLAN NEW WORK PART 9 – CATH LAB AND RAD	1/8"=1'-0"												●	●	●
E320	SECOND FLOOR OVERALL – NEW WORK	1/32"=1'-0"											●	●	●	●
E321-SB	SECOND FLOOR PLAN NEW WORK PART 1 – SOUTH BUILDING	1/8"=1'-0"											●	●	●	●
E322-MB	SECOND FLOOR PLAN NEW WORK PART 2 – MAIN BUILDING	1/8"=1'-0"														
E323-NB	SECOND FLOOR PLAN NEW WORK PART 3 – NORTH BUILDING	1/8"=1'-0"														
E324-PP	SECOND FLOOR PLAN NEW WORK PART 4 – POWER PLANT	1/8"=1'-0"											●	●	●	●
E325-AH	SECOND FLOOR PLAN NEW WORK PART 5 – A. HENES	1/8"=1'-0"													●	●
E326-MR	SECOND FLOOR PLAN NEW WORK PART 6 – MRI	1/8"=1'-0"												●	●	●
E327-BX	SECOND FLOOR PLAN NEW WORK PART 7 – BAXTER	1/8"=1'-0"														
E328-CY	SECOND FLOOR PLAN NEW WORK PART 8 – COURTYARD	1/8"=1'-0"											●	●	●	●
E329-RD	SECOND FLOOR PLAN NEW WORK PART 9 – CATH LAB AND RAD	1/8"=1'-0"											●	●	●	●
E330	THIRD FLOOR OVERALL – NEW WORK	1/16"=1'-0"													●	●
E331-SB	THIRD FLOOR PLAN NEW WORK PART 1 – SOUTH BUILDING	1/8"=1'-0"													●	●
E332-MB	THIRD FLOOR PLAN NEW WORK PART 2 – MAIN BUILDING	3/32"=1'-0"														
E333-NB	THIRD FLOOR PLAN NEW WORK PART 3 – NORTH BUILDING	1/8"=1'-0"														
E334-PP	THIRD FLOOR PLAN NEW WORK PART 4 – POWER PLANT	1/8"=1'-0"												●	●	●
E338-CY	THIRD FLOOR PLAN NEW WORK PART 5 – COURT YARD	1/8"=1'-0"													●	●
E340	FOURTH FLOOR OVERALL – NEW WORK	1/16"=1'-0"														
E341-NB	FOURTH FLOOR PLAN NEW WORK PART 1 – SOUTH BUILDING	1/8"=1'-0"														
E342-MB	FOURTH FLOOR PLAN NEW WORK PART 2 – MAIN BUILDING	1/8"=1'-0"														
E343-NB	FOURTH FLOOR PLAN NEW WORK PART 3 – NORTH BUILDING	1/8"=1'-0"														
E344-NB	FOURTH FLOOR PLAN NEW WORK PART 4 – POWER PLANT	1/8"=1'-0"														
E350	FIFTH FLOOR OVERALL – NEW WORK	1/16"=1'-0"														
E351-MB	FIFTH FLOOR PLAN NEW WORK PART 1 – MAIN BUILDING	1/8"=1'-0"														
E352-NB	FIFTH FLOOR PLAN NEW WORK PART 2 – NORTH BUILDING	1/8"=1'-0"														
E360	SIXTH FLOOR OVERALL – NEW WORK	1/16"=1'-0"											●	●	●	●
E361-MB	SIXTH FLOOR PLAN NEW WORK PART 2 – NORTH BUILDING	1/8"=1'-0"											●	●	●	●
E370	SEVENTH FLOOR OVERALL – NEW WORK	1/16"=1'-0"											●	●	●	●
E371-MB	SEVENTH FLOOR PLAN NEW WORK PART 1 – MAIN BUILDING	1/8"=1'-0"											●	●	●	●
E380	EIGHTH FLOOR OVERALL – NEW WORK	1/8"=1'-0"													●	●
E400	ELECTRICAL SECTIONS – SHEET #1	NONE											●	●	●	●
E401	ELECTRICAL SECTIONS – SHEET #2	NONE											●	●	●	●
															●	●
			(SB) SOUTH BUILDING	(MB) MAIN BUILDING	(NB) NORTH BUILDING	(PP) POWER PLANT	(AH) AUGUSTA HENES BUILDING	(MR) MRI BUILDING	(BX) BAXTER BUILDING	(CY) COURTYARD BUILDING	(RB) RADIOLOGY BUILDING	(GB) NEW GENERATOR BUILDING				

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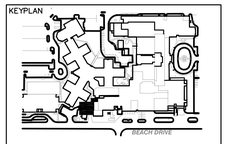
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

KEYPLAN



SEAL

REVISIONS	DATE	DESCRIPTION
4	12.04.17	CONSTRUCTION COST ESTIMATE
3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

OWNER

GOOD SAMARITAN
HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

DRAWING NUMBER

E001

DRAWING NAME

ELECTRICAL
DRAWING LIST
SHEET #1

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE001
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

ELECTRICAL DRAWING LIST

DWG NO	DESCRIPTION:	SCALE	(SB) SOUTH BUILDING	(MB) MAIN BUILDING	(NB) NORTH BUILDING	(PP) POWER PLANT	(AH) AUGUSTA HENES BUILDING	(MR) MRI BUILDING	(BX) BAXTER BUILDING	(CY) COURTYARD BUILDING	(RB) RADIOLOGY BUILDING	(GB) NEW GENERATOR BUILDING	7/31/2014 100% CD	12/17/2014 85% CD	03/20/2015 100% CD PROGRESS FOR REVIEW	12/04/2017 CONSTRUCTION COST ESTIMATE & VALUE BENEFIT COST ANALYSIS
E500	NEW EMERGENCY GENERATOR SYSTEM ELECTRICAL ONE LINE DIAGRAM	NONE	X	X	X	X	X	X	X	X	X	X	●	●	●	●
E501	ELECTRICAL ONE LINE DIAGRAM UTILITY EXISTING 13.2KV SERVICE	NONE	X	X	X	X	X	X	X	X	X	X	●	●	●	●
E501N	ELECTRICAL ONE LINE DIAGRAM UTILITY EXISTING 13.2KV SERVICE	NONE			X									●	●	●
E502	ELECTRICAL ONE LINE DIAGRAM BOILER ROOM MEZZANINE (EXISTING GENERATOR G5)	NONE		X		X			X				●	●	●	●
E502N	ELECTRICAL ONE LINE DIAGRAM BOILER ROOM MEZZANINE (NEW WORK GENERATOR G5)	NONE											●	●	●	●
E503	ELECTRICAL ONE LINE DIAGRAM BAXTER PAVILLION & LINAC BUILDING (EXISTING COURTYARD GENERATOR G2)	NONE							X	X			●	●	●	●
E503N	ELECTRICAL ONE LINE DIAGRAM CATH LAB ROOF SYSTEM (TO REPLACE EXISTING COURTYARD GENERATOR G2)	NONE							X	X	X		●	●	●	●
E503A	ELECTRICAL ONE LINE DIAGRAM LAB, RESPIRATORY & ANNEX (EXISTING COURTYARD GENERATOR G2)	NONE							X	X	X		●	●	●	●
E504-SB	ELECTRICAL ONE LINE DIAGRAM SOUTH BUILDING (EXISTING SOUTH GENERATOR G7)	NONE	X										●	●	●	●
E504-SB(N)	ELECTRICAL ONE LINE DIAGRAM SOUTH BUILDING (DEMO & NEW SOUTH GENERATOR G7)	NONE	X										●	●	●	●
E505-NB	ELECTRICAL ONE LINE DIAGRAM NORTH TOWER (EXISTING NORTH TOWER GENERATOR G4)	NONE			X								●	●	●	●
E505-NB(N)	ELECTRICAL ONE LINE DIAGRAM NORTH TOWER (NEW PROPOSED NORTH TOWER GENERATOR G4)	NONE			X								●	●	●	●
E505A-NB	ELECTRICAL ONE LINE DIAGRAM NORTH TOWER (EXISTING NORTH TOWER GENERATOR G4)	NONE			X								●	●	●	●
E505A-NB(N)	ELECTRICAL ONE LINE DIAGRAM NORTH TOWER (NEW PROPOSED NORTH TOWER GENERATOR G4)	NONE			X								●	●	●	●
E505B-NB	ELECTRICAL ONE LINE DIAGRAM NORTH & SOUTHEAST TOWER (EXISTING NORTH & SOUTHEAST)	NONE			X								●	●	●	●
E505B-NB(N)	ELECTRICAL ONE LINE DIAGRAM NORTH & SOUTHEAST TOWER (DEMO & NEW NORTH & SOUTHEAST)	NONE			X								●	●	●	●
E505C-NB	ELECTRICAL ONE LINE DIAGRAM NORTH TOWER (EXISTING NORTH TOWER ELECTRIC ROOM)	NONE			X								●	●	●	●
E505C-NB(N)	ELECTRICAL ONE LINE DIAGRAM NORTH TOWER (NEW NORTH TOWER ELECTRIC ROOM)	NONE			X								●	●	●	●
E506-MB	ELECTRICAL ONE LINE DIAGRAM MAIN BUILDING – PART 1 (EXISTING POWER PLANT GENERATOR G5)	NONE		X									●	●	●	●
E506A-MB	ELECTRICAL ONE LINE DIAGRAM MAIN BUILDING – PART 2 (EXISTING POWER PLANT GENERATOR G5)	NONE		X									●	●	●	●
E506-MB(N)	ELECTRICAL ONE LINE DIAGRAM MAIN BUILDING – PART 1 (NEW PROPOSED POWER PLANT GENERATOR G5)	NONE		X									●	●	●	●
E507-AH	ELECTRICAL ONE LINE DIAGRAM AUGUSTA HENES (EXISTING AUGUSTA HENES GENERATOR G1)	NONE					X						●	●	●	●
E507-MRI	ELECTRICAL ONE LINE DIAGRAM MRI (EXISTING MRI GENERATOR G3)	NONE						X					●	●	●	●
E508-RB	ELECTRICAL ONE LINE DIAGRAM RADIOLOGY (EXISTING RADIOLOGY GENERATOR G6)	NONE									X		●	●	●	●
E508-RB(N)	ELECTRICAL ONE LINE DIAGRAM RADIOLOGY (NEW PROPOSED RADIOLOGY GENERATOR G6)	NONE									X		●	●	●	●
E509-PMB	ELECTRICAL ONE LINE DIAGRAM POWER PLANT AND MAIN BUILDING (EXISTING RADIOLOGY GENERATOR G5)	NONE		X		X								●	●	●
E510	ELECTRICAL GENERATOR SYSTEM MONITORING AND CONTROL DIAGRAM	NONE	X	X	X	X	X	X	X	X	X	X		●	●	●
E600	CENTRALIZED GENERATOR PLAN	1/8"=1'-0"													●	●
E601	ELECTRICAL ENLARGED PLAN DETAIL SHEET NO.1	AS NOTED												●	●	●
E602	ELECTRICAL ENLARGED PLAN DETAIL SHEET NO.2	AS NOTED											●		●	●
E603	ELECTRICAL ENLARGED PLAN DETAIL SHEET NO.3	AS NOTED											●	●	●	●
E604	ELECTRICAL ENLARGED PLAN DETAIL SHEET NO.4	AS NOTED											●	●	●	●
E605	ELECTRICAL ENLARGED PLAN DETAIL SHEET NO.5	AS NOTED												●		●
E606	ELECTRICAL DETAILS – SHEET NO.1	AS NOTED												●	●	●
E607	ELECTRICAL DETAILS – SHEET NO.2	AS NOTED												●	●	●
E608	ELECTRICAL DETAILS – SHEET NO.3	AS NOTED												●		●
E610	ELECTRICAL DETAIL SHEET NO.1	AS NOTED											●	●	●	●
E611	ELECTRICAL DETAIL SHEET NO.2	AS NOTED											●	●	●	●
E700	ELECTRICAL LIGHTING FIXTURES & PANEL SCHEDULES	NONE	X	X	X						X			●	●	●
E701	EXISTING GENERATOR AND ATS SUMMARY	NONE		X	X	X	X	X	X	X	X	X	●	●	●	●
E702	NEW ATS SUMMARY	NONE														
E703	ELECTRICAL PANEL SCHEDULES SHEET #1	NONE	X													
FA511	FIRE ALARM RISER DIAGRAM	NONE										X				
			(SB) SOUTH BUILDING	(MB) MAIN BUILDING	(NB) NORTH BUILDING	(PP) POWER PLANT	(AH) AUGUSTA HENES BUILDING	(MR) MRI BUILDING	(BX) BAXTER BUILDING	(CY) COURTYARD BUILDING	(RB) RADIOLOGY BUILDING	(GB) NEW GENERATOR BUILDING				

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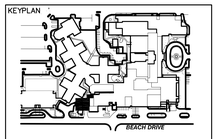
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan Holdings, Inc.
Langan International LLC
Collectively known as Langan

KEYPLAN



SEAL

REVISIONS	DATE	DESCRIPTION
4	12.04.17	CONSTRUCTION COST ESTIMATE
3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

OWNER
GOOD SAMARITAN
HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

DRAWING NUMBER
E002

DRAWING NAME
ELECTRICAL
DRAWING LIST
SHEET #1

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE001
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

ELECTRICAL SYMBOL LIST

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	PANELBOARD.
60 / 40	FUSED 3 POLE DISCONNECT SWITCH. NUMERALS DENOTE SWITCH/FUSE SIZE.
60	UNFUSED 3 POLE DISCONNECT SWITCH. NUMERAL DENOTES SWITCH SIZE.
2	MOTOR – NUMERAL INDICATES HORSEPOWER, "F" INDICATES FRACTIONAL HORSEPOWER.
	GROUND.
	TRANSFORMER.
N E	AUTOMATIC TRANSFER SWITCH WITH BYPASS ISOLATION.
	AUTOMATIC TRANSFER SWITCH WITH BYPASS ISOLATION.
	CIRCUIT BREAKER. 3P, U.O.N.
	SWITCH AND FUSE – 3 POLE, U.O.N.
	PULL BOX.
	GENERATOR.

MECHANICAL EQUIPMENT

M MCC–2 HV–1	MOTOR OR MOTORIZED EQUIPMENT UPPER DESIGNATION INDICATES "CIRCUITED TO" LOWER DESIGNATION INDICATES EQUIPMENT NAME
HP	HP – HEAT PUMP RHC – REHEAT COIL UH – UNIT HEATER SEE ABBREVIATIONS FOR OTHER DESCRIPTIONS.
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH WHERE NO INDICATION IS SHOWN, SWITCH SHOULD BE HORSEPOWER RATED (INCREASE SWITCH SIZE AS REQUIRED TO ACCOMODATE FUSE SIZE FOR APPROPRIATE CIRCUIT PROTECTION
	MOTOR STARTER, MOTOR CONTROLLER, CONTROL PANEL, OR CONTACTOR.
	COMBINATION STARTER AND FUSED DISCONNECT SWITCH
S_{FSD} S_T	JUNCTION BOX – SUBSCRIPT INDICATES: FSD – FIRE/SMOKE DAMPER VAV – VARIABLE AIR VOLUME S_T – SWITCH WITH THERMAL OVERLOAD
VFD	VARIABLE FREQUENCY DRIVE, WITH DISCONNECT SWITCH
— — —	EXISTING FEEDERS TO REMAIN (RISER DIAGRAM)
— x — x —	REMOVE EXISTING FEEDERS (RISER DIAGRAM)
———	NEW FEEDERS (RISER DIAGRAM)

POWER SYSTEM SYMBOLS

IG	CEILING MOUNTED DUPLEX CONVENIENCE RECEPTACLE DESIGNATION: GFI – GROUND FAULT INTERRUPTER IG – ISOLATED GROUND WP – WEATHERPROOF
WP	CEILING MOUNTED DOUBLE DUPLEX/QUADRUPLEX RECEPTACLE DESIGNATION: GFI – GROUND FAULT INTERRUPTER IG – ISOLATED GROUND WP – WEATHERPROOF
AC	WALL MOUNTED DUPLEX CONVENIENCE RECEPTACLE DESIGNATION: C – COMPUTER AC – ABOVE COUNTER GFI – GROUND FAULT INTERRUPTER IG – ISOLATED GROUND WP – WEATHERPROOF L – TASKLIGHT
	WALL MOUNTED DUPLEX CONVENIENCE RECEPTACLE LOWER RECEPTACLE SWITCH CONTROLLED.
C	WALL MOUNTED DOUBLE DUPLEX/QUADRUPLEX CONVENIENCE RECEPTACLE DESIGNATION: C – COMPUTER. SPLIT WIRE WITH LEFT SIDE DESIGNATED FOR COMPUTER DUPLEX RECEPTACLE, AND RIGHT SIDE FOR REGULAR CONVENIENCE RECEPTACLE. AC – ABOVE COUNTER GFI – GROUND FAULT INTERRUPTER IG – ISOLATED GROUND WP – WATERPROOF
A	WALL MOUNTED DEDICATED SIMPLEX RECEPTACLE SIZE AND TYPE AS INDICATED ON SCHEDULE.
A	WALL MOUNTED SPECIAL RECEPTACLE SIZE AND TYPE AS INDICATED ON SCHEDULE.
C	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE DESIGNATION: C – COMPUTER IG – ISOLATED GROUND WP – WATERPROOF
IG	FLUSH FLOOR MOUNTED DOUBLE DUPLEX/QUADRUPLEX RECEPTACLE, POKE THRU FITTING WITH TEL/DATA CAPABILITY. DESIGNATION: C – COMPUTER IG – ISOLATED GROUND WP – WATERPROOF
IG A	FLUSH FLOOR MOUNTED SIMPLEX RECEPTACLE, SIZE AND TYPE AS INDICATED ON SCHEDULE. DESIGNATION: C – COMPUTER IG – ISOLATED GROUND WP – WATERPROOF
A	FLUSH POKE–THRU FITTING TYPE AS INDICATED ON SCHEDULE.
J A	CEILING MOUNTED JUNCTION BOX, TYPE AS INDICATED ON SCHEDULE.
J A	WALL MOUNTED JUNCTION BOX, TYPE AS INDICATED ON SCHEDULE.
J A	JUNCTION BOX MOUNTED TO UNDERSIDE OF STRUCTURAL SLAB FOR ELECTRICAL CONNECTION TO DEVICE AS INDICATED ON SCHEDULE.
J A	FLOOR MOUNTED JUNCTION BOX, TYPE AS INDICATED ON SCHEDULE.
W W	SURFACE METAL RACEWAY WITH RECEPTACLES AND/OR COMMUNICATION DEVICES AS SPECIFIED.
R	CONTACTOR OR RELAY.
FB	FLUSH MOUNTED SHALLOW TRIPLE SERVICE (POWER/TEL/DATA) RECESSED FLOOR BOX WITH BRASS ACTIVATION FACE PLATE KIT. BOX TO CONTAIN DUPLES RECEPTACLE AND TEL/DATA COMPONENTS. COORDINATE FACEPLATE FINISH AND DATA/TEL INSERT WITH ARCHITECT AND TEL/DATA CONSULTANT.

BRANCH CIRCUITING INDICATIONS

a OC a Sa	SIMILAR LOWER CASE LETTER ADJACENT TO FIXTURE, DEVICE OR SWITCH INDICATES COMMON CONTROL WITHIN THE ROOM IN WHICH THEY ARE LOCATED.
1 → 12 a	NOTE ON THIS SHEET INDICATES FIXTURE TYPE. NUMBER ADJACENT TO FIXTURE INDICATES CIRCUIT NUMBER. THOSE SHOWN ARE FOR ILLUSTRATION ONLY –
12 a Sa 12 a A 12 a 12 a	SUPERCEDED BY: FIXTURES WITHIN THE SPACE CONTAINING THE HEXAGON ARE TO BE THE TYPE INDICATED BY LETTERS IN HEXAGON.
A 12	SUPERCEDED BY: LETTERS ADJACENT TO FIXTURE INDICATE TYPE.
12 A	CIRCUIT DEVICE TO CIRCUIT 12. GROUP SIMILARLY NUMBERED DEVICES ON THE SAME CIRCUIT. LETTER INDICATES TYPE. SEE SCHEDULE.
LL4B 12	CONNECT TO PANEL LL4B. THIS DESIGNATION SUPERCEDES ANY OTHER.
LL4A LL4B / LH4A LH4B	CONNECT INCANDESCENT LIGHTS, RECEPTACLES AND APPLIANCES TO LOW VOLTAGE PANEL SHOWN. CONNECT FLUORESCENT, HID LIGHTS TO HIGH VOLTAGE PANEL SHOWN, U.O.N.
F 4–1	DESIGNATION ADJACENT TO FIRE ALARM SYMBOLS INDICATES ZONE PLACEMENT OF DEVICE.
UH	UNIT HEATER
EUH	ELECTICAL UNIT HEATER
T	THERMO SWITCH OVERLOAD
M MCC–2 HV–1	MOTOR OR MOTORIZED EQUIPMENT. UPPER DESIGNATION INDICATES "CIRCUITED TO" LOWER DESIGNATION INDICATES EQUIPMENT NAME OR DESIGNATION.
MCC–2 FCU–1	UPPER DESIGNATION INDICATES "CIRCUITED TO" LOWER DESIGNATION INDICATES EQUIPMENT NAME OR DESIGNATION.

NOTE INDICATIONS

1	SEE NOTE ON THIS DRAWING. NOTE NUMBER INDICATED BY NUMERAL IN DIAMOND.
123	ROOM NUMBER INDICATED BY NUMERALS. ROOM DESIGNATION AS INDICATED IN SCHEDULE.
4 / E402	REFERENCE TO DETAIL DRAWING UPPER DESIGNATION REFERS TO DETAIL NUMBER; LOWER DESIGNATION REFERS TO DRAWING NUMBER.
No.	DETAIL No. DESIGNATION ON DETAIL DRAWING.
1	REVISION TRIANGLE NUMBER IN TRIANGLE REFERS TO REVISION NUMBER.

LIGHTING SYSTEM SWITCHING & CONTROLS

	LIGHTING FIXTURES. SIZE AND SHAPE REPRESENTATIVE OF ACTUAL FIXTURE.
	DIRECTIONAL LIGHT FIXTURE.
	TRACK WITH LIGHT FIXTURES.
	FIXTURES CONNECTED TO EMERGENCY SYSTEM.
EB	EMERGENCY BATTERY PACK WITH SEALED BEAM LIGHTS.
S^K	WALL TOGGLE SWITCH. SPECIAL SWITCH TYPES – INDICATED BY SUBSCRIPTS: K – KEY OPERATED P – PILOT LIGHTED 2 – TWO POLE D – DIMMER 3 – THREE WAY M – MOMENTARY CONTACT 4 – FOUR WAY L – LOW VOLTAGE SWITCH
	CEILING MOUNTED EXIT LIGHTS, SHADED SURFACE INDICATES LOCATION OF LETTERING, ARROW SHOWS DIRECTIONAL SIGN.
	WALL/SURFACE MOUNTED EXIT LIGHTS, SHADED SURFACE INDICATES LOCATION OF LETTERING, ARROW SHOWS DIRECTIONAL SIGN.
P	OCCUPANCY SENSOR POWER PACK LOCATED WITHIN ACCESSIBLE CEILING SPACE.
OC U	CEILING MOUNTED OCCUPANCY SENSOR, ARROW INDICATES DIRECTIONS OF SENSOR. DESIGNATION: IN– INFRARED U – ULTRASONIC

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLER UNIT
ALD	AUTOMATIC LOUVER VAMPER
ASYM	ASYMMETRICAL
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CH	CABINET HEATER
CKT	CIRCUIT
℄	CENTER LINE
CLG	CEILING
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CU	COPPER
D	DRYER
DW	DISH WASHER
DWG	DRAWING
EC	EMPTY CONDUIT
ECH	ELECTRICAL CABINET HEATER
ECX	ELECTRICAL CLOSET EXHAUST
EHC	ELECTRICAL HEATING COIL
EM	EMERGENCY
EMR	ELEVATOR MACHINE ROOM
EPO	EMERGENCY POWER OFF
EUH	ELECTRICAL UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FPB	FAN POWERED VARIABLE AIR VOLUME BOX
G	GROUND
GFI	GROUND FAULT INTERRUPTER
GX	GENERAL EXHAUST
HC	HUNG CEILING
HN	HALF NEUTRAL
HOA	HAND–OFF–AUTOMATIC
HP	HORSEPOWER
HZ	HERTZ
I	ICE MACHINE
IG	ISOLATED GROUND
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT–AMPERE
KX	KITCHEN EXHAUST
M	MICROWAVE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MER	MECHANICAL EQUIPMENT ROOM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
Ø	PHASE
O	OVEN
OL	OVERLOAD
P	POLE
PB	PULLBOX
PNL	PANEL
PT	POTENTIAL TRANSFORMER
R	REFRIGERATOR
RD	REFRIGERATED DRAWER
RHC	REHEAT COIL
SWBD	SWITCHBOARD
SX	SMOKE EXHAUST
TF	TRANSFORMER
TEL	TELECOMMUNICATIONS
TTB	TELECOMMUNICATIONS TERMINAL BOARD
TTC	TELECOMMUNICATIONS TERMINAL CABINET
TX	TOILET EXHAUST
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VIDEO DISPLAY
VAV	VARIABLE AIR VOLUME BOX
VP	VAPOR PROOF
W	WASHING MACHINE
WP	WATERPROOF
WS	WINE STORAGE
XP	EXPLOSION PROOF

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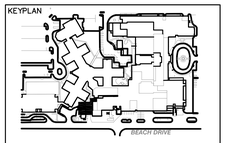
KEYPLAN



SEAL

REVISIONS	DATE	DESCRIPTION
4	12.04.17	CONSTRUCTION COST ESTIMATE
3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

OWNER
GOOD SAMARITAN HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E003

DRAWING NAME
LEGEND, ABBREV. AND NOTES

DRAWING SCALE	DRAWING FILE
NONE	GSE003
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

ELECTRICAL NOTES, ALTERNATES AND OUTSTANDING ITEMS

ALTERNATES

ALTERNATE FOR POWER PLANT

1. PRESENTLY, THERE IS NO ALTERNATE FOR THE POWER PLANT.

ALTERNATE FOR CHILLER PLANT

1. PRESENTLY, THERE IS NO ALTERNATE FOR THE CHILLER PLANT.

ALTERNATE FOR NEW EMERGENCY GENERATOR BUILDING

1. PRESENTLY, THERE IS NO ALTERNATE FOR THE NEW EMERGENCY GENERATOR PLANT.

ALTERNATE FOR NORTH TOWER

1. PRESENTLY, THERE IS NO ALTERNATE FOR THE NORTH TOWER.

ALTERNATES FOR SOUTH BUILDING

1. PRESENTLY, THERE IS NO ALTERNATE FOR THE SOUTH BUILDING.

ALTERNATES FOR MAIN BUILDING

1. ALTERNATE MB-#1: IN LIEU OF USING EXISTING HV (2400V) CABLES FOR THE EMERGENCY POWER OF THE MAIN BUILDING, REMOVE EXISTING HV CABLES AND PROVIDE NEW CABLES IN EXISTING CONDUIT AND UNDERGROUND DUCT BANK SYSTEM.

1. ALTERNATE MB-#2: IN LIEU OF USING EXISTING HV (2400V) CABLES FOR THE EMERGENCY POWER OF THE MAIN BUILDING, PROVIDE NEW HV FEEDERS FROM EXISTING POWER PLANT MEZZ LEVEL TO THE 7TH FLOOR EXISTING EMERGENCY HV SWITCHES 9AT TWO LOCATIONS), ABANDON EXISTING UNDERGROUND EMERGENCY HV FEEDERS.

ALTERNATES FOR A. HENES BUILDING

1. IN LIEU OF MODIFYING EXISTING ELECTRICAL ROOM; HARDENING EXISTING ELECTRICAL CLOSET TO PREVENT WATERS, REPLACE EXISTING ATS'S AND EMERGENCY DISTRIBUTION PANELS IN THE EXISTING ELECTRICAL CLOSET, PROVIDE NEW NEW EMERGENCY ELECTRICAL ROOM ON THE ROOF ABOVE THE EXISTING ELECTRICAL ROOM AREA AND PROVIDE ALL NEW EMERGENCY EQUIPMENT IN THE NEW ROOF ELECTRICAL ROOM, PROVIDE ALL NEW CONNECTIONS TO EXISTING SYSTEM FROM ROOF LEVEL TO EXISTING SYSTEM, ALL EXISTING EMERGENCY EQUIPMENT IN THE EXISTING EMERGENCY ROOM TO BE REMOVED. PROVIDE REQUIRED LIGHTING, CONTROL, FIREALARM AND MECHANIAL VENTILATION TO THE NEW ELECTRICAL ROOM

2. REPLACE EXISTING FIRE PUMP CONTROLLER AND ATS.

ALTERNATES FOR RADIOLOGY BUILDING E-508 RB(N)

1. IN LIEU OF RETAIN EXISTING GENERATOR. PROVIDE ALTERNATE PRICE TO REMOVE THE EXISTING GENERATOR AND GENERATOR LOAD BANK. DISCONNECT POWER TO EXISTING FUEL OIL PUMP (1ST FLOOR) ETC....

OUTSTANDING LIST

POWER PLANT

1. IT IS NOT CLEAR IF EXISTING PANEL CPC-1 IS 3WIRES OR 4 WIRES –
2. IT IS NOT CLEAR IF THE UPS FEEDER IS 3WIRES OR 4 WIRES, LIKELY IS 3 WIRES, BUT NEED FIELD VERIFICATION.
3. PANEL ASU-EM (2) WITH MIXED LOAD, NOT CLEAR HOW TO SEPARATE THEM.

EXISTING CHILLER PLANT

1. NEW EMERGENCY EQUIPMENT TO BE LOCATED IN A NEW ROOM OF EXISTING SHOP. DETAILED COORDINATION WITH ARCH AND MEP NOT PERFORMED.
2. EXISTING COOLING TOWER POWER: FAN MOTOR IS NOT KNOW. BESIDES THE FAN MOTOR POWER, WHAT OTHER EQUIPMENT ASSOCIATED WITH FAN, SUCH AS HEATERS, NEED EMERGENCY POWER CIRCUIT?
2. TWO EXISTING CONDENSING MOTOR (15 HP EA), NAMEPLATE INDICATED THAT THE MOTOR IS DUAL VOLTAGE (230V OR 460V), NEED CONFIRMATION.

NEW EMERGENCY GENERATOR BUILDING

1. COORDINATION OF FA AND FIRE PROTECTION PRE-ACTION SYSTEM HAS NOT BEEN DONE;
2. POWER SUPPLY TO FA PANEL AND PRE-ACTION SYSTEM NOT COORDINATED.
3. FULLY COORDINATION BETWEEN ELEC AND HAVE NOT DONE;
4. PARALLELING SWITCHGEAR GRAPHIC SECTION DIMENSION SUBJECT TO FURTHER COORDINATION WITH VENDOR.

NORTH TOWER

1. NEW ELECTRICAL ROOM DOOR TO BE ON NORTH SIDE – NOT FULLY COORDINATED WITH ARCH.

SOUTH BUILDING

1. POWER FOR NEW ROOF EXHAUST FAN HAS NOT BEEN COORDINATED;
2. DUE TO HVAC EQUIPMENT RELOCATION, SPACE BELOW WILL BE IMPACTED, THERE WILL BE ELECTRICAL WORK ASSOCIATED WITH THE BELOW CEILING WORK AND SCOPE HA NOT BEEN INCLUDED IN THE SET.
3. THE SOUTH BUILDING NORMAL POWER IS FED OFF A 500KVA TRANSFORMER. AS SOME OF THE EMERGENCY LOAD PREVIOUSLY FED OFF THE COURTYARD AND NOW TO BE FED OFF THE SOUTH BUILDING EMERGENCY POWER SYSTEM, THE NORMAL POWER OF SOUTH BUILDING MAY NOT BE ADEQUATE. SOLUTION IS TO PROVIDE SOME NORMAL POWER FROM THE EXISTING COURTYARD NORMAL POWER SUBSTATION (1500KVA SUBSTATION), DETAILS NEED FURTHER COORDINATION AND REVIEW.

MAIN BUILDING

1. ALL EXISTING CUMMINS ATS TO BE REPLACED WITH NEW ATS WITH BYPASS AND CONTROL MODULES, ETC... THE EXISTING SPACE HEIGHT IS NOT ADEQUATE FOR THE REPLACED ATS. ALTERNATE SPACE TO INSTALL THE TWO NEW ATS IS REQUIRED AND SPACE HAS NOT BEEN COORDINATED WITH THE ARCH.

A. HENES BUILDING

1. UNDER BASE, SEPARATION WILL BE PROVIDED IN THE EXISTING NORMAL ELECTRICAL ROOM, FURTHER COORDINATION WITH MGA IS REQUIRED.

EXISTING COURTYARD BUILDING:
1. FIELD VERIFICATION FOR ANY WALL OPENING/ CONDUIT IS NEEDED FOR HARDENING.

NEW COURTYARD EMERGENCY ANNEX ADDITION.

1. ELECTRICAL POWER FOR NEW ROOF FANS IS NOT COORDINATED.
2. IF EXISTING FAN TO BE RELOCATED, MAY IMPACT SPACE BELOW, AREA IMPACTED WILL HAVE ELECTRICAL WORK AND PRESENTLY SCOPE IS NOT DEFINED.

GENERAL: EMERGENCY BRANCH CIRCUITS AT PANEL BOARD LEVEL FOR THE ENTIRE PROJECT HAVE NOT BEEN EVALUATED AND SCOPE HAS NOT BEEN INCLUDED IN THIS SET.

WORK DESCRIPTION SUMMARY

THIS IS A HIGH LEVEL WORK DESCRIPTION SUMMARY, COMPLETE WORK SCOPE AND DETAILS SHALL REFER TO THE COMPLETE DOCUMENT, INCLUDING STRUCTURE, ARCH, HVAC, ELECTRICAL AND PLUMBING/FIRE PROTECT AND CIVIL DRAWINGS AND SPECIFICATIONS AND GSH BID INSTRUCTION AND FIELD CONDITIONS.

GENERAL

1. PROVIDE DEMOLITION AND REQUIRED UTILITY RELOCATION IN THE PROPOSED NEW EMERGENCY GENERATOR AREA;
2. PROVIDE COMPLETE ELECTRICAL SYSTEM FOR THE NEW EMERGENCY GENERATOR BUILDING, INCLUDING POWER, LIGHTING AND FIRE ALARM SYSTEM.
3. PROVIDE COMPLETE NEW EMERGENCY GENERATOR SYSTEM IN THE NEW EMERGENCY GENERATOR BUILDING, INCLUDING THREE (3) 1500KW GENERATORS, PARALLELING SWITCHGEAR, REQUIRED TRANSFORMER, AUTOMATIC TRANSFORMERS. ATS'S AND EMERGENCY DISTRIBUTION EQUIPMENT
4. PROVIDE NORMAL POWER TO ALL EMERGENCY ATS IN THE NEW EMERGENCY GENERATOR BUILDING FROM THE EXISTING POWER PLANT.
5. PROVIDE COMPLETE NEW EMERGENCY DISTRIBUTION (CONDUIT RACEWAY SYSTEM) FROM NEW EMERGENCY GENERATOR SYSTEM TO ALL CAMPUS BUILDINGS, THE DISTRIBUTION TO INCLUDE A COMPLETE RACEWAY SYSTEM, INCLUDING UNDERGROUND DUCT BANK, ROOF CONDUITS, INTERIOR CONDUITS TO BE INSTALLED ABOVE EXISTING CEILING SPACES, AND VERTICAL CONDUITS ATTACHED TO THE EXISTING BUILDING FACADE. FOR ROOF CONDUIT, PROVIDE COMPLETE SUPPORTS. THE CONDUIT RACEWAY SYSTEM INCLUDING EMERGENCY POWER DISTRIBUTION AND ATS SIGNAL, CONTROL AND MONITORING WIRING RACEWAY.
6. PROVIDE REQUIRED TESTING OF THE NEW EMERGENCY GENERATOR SYSTEM BEFORE AND AFTER EXISTING LOADS CONNECTED.
7. PROVIDE COMPLETE SEPARATION OF EMERGENCY POWER LIFE SAFETY BRANCH, CRITICAL BRANCH AND EQUIPMENT BRANCH AT PANEL BOARD BRANCH CIRCUIT LEVEL FOR THE ENTIRE CAMPUS.
8. REMOVE ALL SEVEN(7) EXISTING EMERGENCY GENERATORS ONE BY ONE WHEN ASSOCIATED EMERGENCY POWER TRANSFERRED TO NEW EMERGENCY SYSTEM.
9. PROVIDE POWER MONITORING SYSTEM AS PER SPEC.
10. PROVIDE FIRE ALARM FOR NEW AREAS.

BUILDING BY BUILDING:
REFER TO SCOPE OF WORK ON SHEET E005 FOR INDIVIDUAL BUILDING WORK DESCRIPTIONS.

ELECTRICAL DEMOLITION NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING THE BID TO BECOME THOROUGHLY FAMILIAR WITH THE SITE CONDITION AND FULLY UNDERSTAND THE INTENT AND SCOPE OF WORK AS INDICATED BY THESE DOCUMENTS AND AS REQUIRED TO PERFORM THE WORK IN ACCORDANCE WITH SCHEDULE AS REQUIRED FOR THE COMPLETION OF THE PROJECT.
2. THE CONTRACTOR SHALL PERFORM NO DEMOLITION WORK PRIOR TO OBTAINING SPECIFIC WRITTEN DIRECTION TO PROCEED FROM THE DESIGNATED REPRESENTATIVE OF THE OWNER. SPECIFIC WRITTEN APPROVAL MUST BE OBTAINED PRIOR TO CUTTING STEAM, CONDENSATE, OR WATER LINES, OR REMOVING CONTROL WIRING OR DEVICES, OR DEMOLISHING EQUIPMENT. SUBMIT A DEMOLITION SCHEDULE INDICATING REQUIRED APPROVALS. SUBMIT EACH APPROVAL REQUEST A MINIMUM OF TWO WEEKS PRIOR TO THE INTENDED START OF WORK AND COORDINATE ALL REQUIRED SYSTEM SHUTDOWNS.
3. THE CONTRACTOR SHALL INCLUDE IN THE SCOPE OF WORK A THOROUGH INVESTIGATION OF THE EXISTING CONDITIONS. THE CONTRACTOR SHALL IDENTIFY TO THE OWNER, AND TO THE ARCHITECT/ENGINEER ANY CONDUITS, WIRING, EQUIPMENT, DEVICES, ETC., WHICH ARE NOT IDENTIFIED ON THE DEMOLITION DRAWINGS AS EITHER "TO REMAIN" OR "TO BE REMOVED". ANY UNIDENTIFIED CONDUIT, WIRING, DUCTWORK, PIPING OR EQUIPMENT THAT ARE EXPOSED OR DISCOVERED DURING THE CONSTRUCTION PERIOD SHALL BE THOROUGHLY INVESTIGATED BY THE CONTRACTOR TO DETERMINE WHAT SPACE OR EQUIPMENT THEY SERVE.
4. WHERE ANY EXISTING SERVICES, SYSTEMS, COMPONENTS, OR DEVICES INTERFERE WITH THE DEMOLITION OR REMOVAL PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND, UPON WRITTEN APPROVAL FROM OWNER, SHALL ALTER OR REROUTE AS NECESSARY AND AS APPROVED SUCH EXISTING CONDITIONS AS REQUIRED TO FACILITATE THE REMOVAL PROCESS. CONTRACTOR SHALL VISIT SITE & BE FAMILIAR WITH EXISTING FIELD CONDITIONS & REMOVAL EGRESS PATHWAYS PRIOR TO SUBMIT BID.
5. ANY UNAUTHORIZED ALTERATIONS TO THE EXISTING SYSTEMS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
6. ALL UNUSED CONDUITS, WIRING AND SUPPORTS SHALL BE COMPLETELY REMOVED FROM THE SITE.
7. ALL WALLS, FLOOR AND CEILING OPENINGS SHALL BE PROPERLY PATCHED, SEALED AND FIRE STOPPED TO MAINTAIN THE INTEGRITY OF ALL REQUIRED FIRE RATINGS. MATCH OR "LIKE NEW" AS APPROVED BY OWNER.
8. THE CONTRACTOR SHALL GUARANTEE THE CONTINUITY OF PRESENT FACILITY SERVICES WITH RESPECT TO DAMAGE OR ALTERATION OF INTENDED WORK.
9. THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL THROUGHOUT THE DEMOLITION PROCESS. AUTOMATIC DETECTION DEVICES SHALL BE PROTECTED FROM DAMAGE AND ALSO FROM DUST AND/OR ANY OTHER CONDITION RESULTING FORM DEMOLITION WORK THAT MAY CAUSE NUISANCE ALARMS.
10. WHERE ELECTRICAL OUTLETS OR EQUIPMENT ARE REMOVED OR CIRCUITS INTERRUPTED OR BROKEN, THE CONTRACTOR SHALL PROVIDE THE REQUIRED RECONNECTION OR REARRANGEMENT TO PERMANENTLY RESTORE SERVICE TO ALL EQUIPMENT THAT ARE TO REMAIN OR CIRCUITRY WHICH ROUTED IN THE CLING SPACE BUT SERVING OTHERS.
11. ANY EXPOSED WIRING THAT FOR ANY REASON HAS NOT BEEN REMOVED SHALL BE CAPPED AND DE-ENERGIZED TO ENSURE THE SAFETY OF ALL PERSONS. ANY EXPOSED WIRING THAT MUST REMAIN ENERGIZED SHALL BE LABELED AS SUCH AND MADE HARMLESS TO ALL PERSONNEL AND OTHER EXISTING EQUIPMENT.
12. CONTRACTOR SHALL SUBMIT NOTICE TWO WEEKS IN ADVANCE TO THE OWNER PRIOR TO USE OF THE ELECTRICAL POWER SOURCE FOR DEMO AND CONSTRUCTION PURPOSE, UPON APPROVAL, ONLY TENANT METERED POWER SOURCE SHALL BE USED
13. PATCH ALL WALL OPENING, SLEEVES AFTER CONDUITS WIRES, DUCTS REMOVED AND TO MATCH EXISTING WALL FIRE RATING.
14. CONTRACTOR IS REQUIRED TO REMOVE ALL EXISTING CONDUITS AS TO BE DEMOLISHED ON DWGS E-505
15. BATTERIES & OTHER SIMILARLY HAZARDOUS MATERIALS SHALL BE REMOVED & DISPOSED TO COMPLY WITH GOVERNMENT ENVIRONMENT REQUIREMENT AND AS PER HOSPITAL DIRECTION.
16. FOR EXISTING ABOVE CEILING CONDUITS TO BE REMOVED, CONTRACTOR IS RESPONSIBLE TO REMOVE THE EXISTING CEILING TILES , REMOVE AND RE-INSTALL ALL EXISTING CEILING DEVICES IN THE IMPACTED CEILING AREA, INCLUDING BUT NOT LIMITED TO CEILING LIGHTING FIXTURES, FIRE ALARM DEVICES, NURSE CALL DEVICES, WIRELESS SENSORS, ETC... ANY DAMAGED CEILING TILES SHALL BE REPLACED WITH NEW AND TYPE TO MATCH EXISTING.
17. FOR EXISTING CONDUITS RUNNING THROUGH FIRE RATED WALL TO BE REMOVED, CONTRACTOR TO PROVIDE FIRE RATED SEALANT TO MATCH THE FIRE RATING OF THE EXISTING WALL. REFER TO ARCHITECTURAL LIFESAFETY FLOOR PLAN FOR FIRE RATED WALL LOCATIONS.

ELECTRICAL GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, APPLIANCES, AUXILIARIES, SERVICES, HOISTING, SCAFFOLDING, SUPPORT, SUPERVISION, AND PROJECT RECORD DOCUMENTS, AND SHALL PERFORM ALL OPERATIONS FOR THE COMPLETION OF THE GENERATOR REPLACEMENT WORK FOR THE PROJECT.
2. ALL WORK SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE GOVERNING AUTHORITIES HAVING JURISDICTION, INCLUDING THE NEW YORK STATE BUILDING CODE, NATIONAL ELECTRICAL CODE ORDINANCES AND AMENDMENTS, OTHER REFERENCED CODES AND WITH THE AMERICANS WITH DISABILITIES ACT.
3. ALL WORK SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE RECOGNIZED NATIONAL AND INDUSTRY STANDARDS AS INDICATED IN THE SPECIFICATIONS. CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE BEST ENGINEERING AND CONSTRUCTION PRACTICE.
4. THE ELECTRICAL WORK IS SHOWN SCHEMATICALLY ON THE DRAWINGS TO INDICATE THE GENERAL SYSTEM ARRANGEMENT AND CONFIGURATION. ACTUAL ROUTING, INCLUDING ALL REQUIRED OFFSETS, TRANSITIONS, etc..., SHALL BE INCLUDED AS PART OF THE BASE BID.
5. THE WORK OF THIS CONTRACTOR SHALL INCLUDE COORDINATION WITH THE WORK OF ALL OTHER CONTRACTORS AND ALL REQUIREMENTS OF THE SPECIFICATIONS AND THE DRAWINGS.
6. THE WORK OF THIS CONTRACTOR SHALL INCLUDE COORDINATION WITH ALL MEP EXISTING CONDITIONS, MAKING PROBES AND CONFIRMATION OF EXISTING CONDITIONS.
7. THE WORK SHALL INCLUDE ALL NECESSARY COMPONENTS SO AS TO PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM.
8. ALL ELECTRICAL WORK SHOULD COMPLY WITH THE ELECTRICAL SPECIFICATION AND BUILDING REQUIREMENTS. COORDINATE WORK WITH BUILDING MAINTENANCE PERSONAL.
9. ALL RECEPTACLES INSTALLED WITHIN 6'-0" OF ANY WATER SOURCE, INCLUDING SINK, MOP SINK, DISHWASHER, WATER SOURCE WARMERS, AND SIMILARLY LOCATIONS SHALL BE G.F.I.
10. DEMOLITION WORK IN THE EXISTING AREA SHALL BE FULLY COORDINATED WITH THE BUILDING OWNER, CONTRACTOR SHALL MAINTAIN ALL POWER AND LOW VOLTAGE POWER SIGNAL CONTINUITY TO ALL EXISTING DEVICES/SYSTEM OUTSIDE DEMOLITION AREA OR DEVICES/SYSTEM WITHIN DEMO AREA AND MUST REMAIN. CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS TO BE REMOVED TO ASSURE THAT NO OTHER AREA AFFECTED BY REMOVING THE EXISTING CIRCUITS.
11. FOR MC CABLE INSTALLATION, A CABLE CUTTING TOOL WITH CONTROLLED DEPTH OF CUT SHALL BE USED. UL LISTED TYPE MC CABLE CONNECTORS WITH INSULATED BUSHINGS SHALL BE USED IN ALL MC CABLE INSTALLATION.
12. THE CONTRACTOR IS REQUIRED TO PERFORM A FIELD VISIT TO FULLY IDENTIFY THE EXTENTS OF DEMOLITION AND NEW WORK AS SHOWN IN THIS SET OF DOCUMENTS PRIOR TO SUBMITTING THE EXISTING CONDITIONS, UNDERSTAND BID.
13. PROVIDE A LOCAL TOGGLE SWITCH FOR ALL FIRE SMOKE DAMPERS, AUTOMATIC LOUVER DAMPERS, SMOKE DAMPERS, VAV'S, FAN COIL UNITS, AND SIMILAR MECHANICAL EQUIPMENT PRIOR TO FINAL CONNECTION TO THE MOTOR UNLESS OTHERWISE NOTED ON DRAWINGS.
14. COORDINATE MAJOR POWER SHUTDOWNS WITH THE HOSPITAL/FACILITY PERSONNEL.
15. ALL TELECOMMUNICATION WIRES IN ALL MER ROOMS SHALL BE INSTALLED IN RIGID STEEL CONDUIT.
16. ALL ANCILLARY EQUIPMENT SUCH AS RECEPTACLES, LIGHTING FIXTURES, ETC.. SHALL BE APPROVED BY GOOD SAMARITAN HOSPITAL ELECTRICAL DEPARTMENT OF FACILITY MANAGEMENT.
17. FOR NEW CONDUITS AND CABLES RUNNING THROUGH THE EXISTING SLABS. CONTRACTOR TO PROVIDE CORE DRILLS AND SLEEVES AS REQUIRED WEATHER INDICATED ON PLANS OR NOT.
18. FOR NEW CONDUIT/CABLES TO BE INSTALLED ABOVE THE EXISTING CEILING, (WEATHER INDICATED ON DRAWING OR NOT) CONTRACTOR IS RESPONSIBLE TO REMOVE THE EXISTING CEILING TILES , REMOVE AND RE-INSTALL ALL EXISTING CEILING DEVICES IN THE IMPACTED CEILING AREA, INCLUDING BUT NOT LIMITED TO CEILING LIGHTING FIXTURES, FIRE ALARM DEVICES, NURSE CALL DEVICES, WIRELESS SENSORS, ETC... ANY DAMAGED CEILING TILES SHALL BE REPLACED WITH NEW AND TYPE TO MATCH EXISTING.
19. PROVIDE NEW LABELS TO IDENTIFY NEW LOADS CONNECTED TO ALL EXISTING EQUIPMENT INCLUDING PANEL BOARD TO IDENTIFY NEW BRANCH CIRCUITS.
20. FOR EXISTING LOAD TO BE REROUTED FROM EXISTING PANELS (IN MOST OF THE CASES, TO BE REMOVED) CONTRACTOR SHALL INCLUDE IN HIS BID PRICE TO PRIDE NEW FEEDERS FOR EXISTING LOAD BASED ON EXISTING C/B AND SWITCH (SERVING LOAD) SIZE. DURING DEMO, CONTRACTOR SHALL VERIFY AND KEEP A RECORD OF EXISTING FEEDER SIZE, FINAL FEEDER SIZE SHALL MATCH EXISTING, U.O.N.
21. FOR ANY EXISTING BRANCH CIRCUIT CALLED FOR TRANSFERRING FROM ONE TYPE OF BRANCH CIRCUIT PANEL TO ANOTHER, CONTRACTOR IS REQUIRED TO VERIFY. AND TRACE THE LOADS. CONFIRM WITH THE HOSPITAL PRIOR TO REROUTING ANY BRANCH CIRCUITS.

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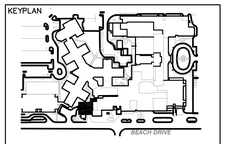

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PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E004

DRAWING NAME
ELECTRICAL NOTES, ALTERNATES AND OUTSTANDING ITEMS

DRAWING SCALE	DRAWING FILE
NONE	GSE004
BINDING ORDER	FIRST ISSUE DATE
	13/31//14

SCOPE OF WORK

EX. GEN	BUILDINGS	DEMOLITION NOTES	NEW WORK NOTES	ARCH RELATED
GENERATOR G1 750KW/937.5KVA 277V/480V	AUGUSTA HENES	1. REMOVE EXISTING EMERGENCY GENERATOR – G1 2. REMOVE EXISTING EMERGENCY FEEDER TO EXISTING FIRE PUMP (75 HP) 3. REMOVE AND REPLACE ALL EXISTING ATS'S AND OTHER EMERGENCY EQUIPMENT AS PER E215–AH.	1. PROVIDE 277/480V EMERGENCY POWER FROM NEW PARALLELING SWGR TO EXISTING FIRE PUMP. 2. PROVIDE NEW 277/480V FEEDER FROM NEW PARALLELING SWGR AND A NEW EMERGENCY DISTRIBUTION BOARD. 3. RE–ROUTING ALL EXISTING EMERGENCY LOADS TO NEW ATS/EMERGENCY DISTRIBUTION PANELS 4. PROVIDE LIFE SAFETY AND CRITICAL POWER TO MRI BUILDING. 5. PROVIDE WATER PROOF AT ALL CONDUIT PENETRATION AND OPENINGS TO PREVENT FLOODING. 6. PROVIDE NEW EMERGENCY EQUIPMENT TO REPLACE EXISTING TO FACILITATE THE WALL HARDENING. 7. PROVIDE NEW ATS TO REPLACE ALL EXISTING ATS'S.	1. HARDENING EXISTING ELEC CLOSET TO PREVENT FLOODING. 2. PROVIDE NEW SEPARATION WILL IN NORMAL ELEC DOOM TO SEPARATE EMERGENCY EQUIPMENT NORMAL
GENERATOR G2 600KW/750KVA 120V/208V	COURTYARD	1. REMOVE EXISTING GENERATOR AFTER ALL EXISTING LOAD BEING TRANSFERRED TO NEW SYSTEM, 2. REMOVE ALL EXISTING ATS'S AND ASSOCIATED EMERGENCY EQUIPMENT WITHIN THE COURTYARD GENERATOR ROOM.	1. PROVIDE 120/208V EMERGENCY POWER SUPPLY FROM NEW EMERGENCY POWER SYSTEM TO PROVIDE MINIMUM EMERGENCY POWER TO THE COURTYARD SWITCHGEAR ROOM (LIGHTING, EMERGENCY RECEPT. AND MISC. CONTROL POWER) 2. WATERPROOF SEAL ALL CONDUIT OPENINGS FOR THE BUILDING	1. PROVIDE NEW ELEC ROOMS ABOVE CCL/CHAPEL (COURTYARD EMERGENCY ANNEX) 2. PROVIDE HARDENING TO EXISTING COURTYARD BUILDING.
	BAXTER PAVILION (UPS–COMPUTER ROOM)	1. DISCONNECT AND REMOVE EMERGENCY POWER SUPPLY TO 100KVA UPS FROM COURTYARD CED–3.	1. PROVIDE 208V EMERGENCY POWER SUPPLY TO EXISTING 100KVA UPS FROM BAXTER BUILDING NEW EMERGENCY POWER SYSTEM.	1. NO ARCH WORK.
	ANNEX (RADIOLOGY AND ONCOLOGY)	1. DISCONNECT AND REMOVE EMERGENCY POWER FED FROM COURTYARD GENERATOR ROOM CED–4 2. REMOVE EXISTING ATS (150A) IN EXISTING MECH ROOM 3. REMOVE EXISTING ANNEX EMERGENCY EMDP 4. REMOVE EXISTING EMERGENCY MCC PANEL 5. DISCONNECT POWER TO ANNEX RESPIRATORY AREA EMDP (DPEM?)		1. PROVIDE NEW ELEC CLOSET ON TOP OF THE ANNEX BUILDING OR NO NEW ELECTRICAL ROOM NEEDED. POWER FOR THE ANNEX BUILDING TO BE FED OFF SOUTH BUILDING
	LINAC	1. DISCONNECT AND REMOVE EMERGENCY POWER SUPPLY FROM COURTYARD CED–3.	1. PROVIDE 480V EMERGENCY POWER SUPPLY FROM NEW POWER PLANT LIFE SAFETY DISTRIBUTION PANEL. 2. PROVIDE 480/120–208V STEP DOWN TRANSFORMER TO SERVE THE PRESENT LINAC BUILDING LOADS	1. NO ARCH WORK.
	CATH LAB (MAIN BUILDING)	1. DISCONNECT AND REMOVE EMERGENCY POWER SUPPLY TO X–RAY–1 FROM COURTYARD CED–2. 2. DISCONNECT AND REMOVE EMERGENCY POWER SUPPLY TO X–RAY–2 FROM COURTYARD ATS–4C.	1. PROVIDE EMERGENCY POWER TO X–RAY–1 FROM RADIOLOGY NEW EMERGENCY CLOSET. 2. PROVIDE EMERGENCY POWER TO X–RAY–2 FROM RADIOLOGY NEW EMERGENCY CLOSET. 3. PROVIDE EMERGENCY POWER TO CATH LAB#3 FROM EXISTING SPARE ATS LOCATED ON RADIOLOGY ROOF.	1. NO ARCH WORK.
	ANGIOPLASTY (SOUTH BUILDING)	1. DISCONNECT AND REMOVE EMERGENCY POWER SUPPLY FROM COURTYARD CED–2.		
GENERATOR G3 400KW/500KVA 277V/480V	MRI	1. REMOVE EXISTING EMERGENCY GENERATOR – G3	1. PROVIDE 277/480V EMERGENCY POWER FROM NEW PARALLELING SWGR. AND A NEW 600A–277/480V EMERGENCY DISTRIBUTION BOARD 2. PROVIDE LIFE SAFETY POWER FROM A. HENES 3. PROVIDE ONE EMPTY CONDUIT FROM A HENIS FOR FUTURE CRITICAL LOADS.	NO NEW WORK
GENERATOR G4 460KW/575KVA 277V/480V	NORTH TOWER	1. REMOVE EXISTING EMERGENCY GENERATOR G4 AND EMERGENCY CONNECTION TO EXISTING EMDP–NT. 2. REMOVE EXISTING TEMPORARY GENERATOR CONNECTIONS.	1. PROVIDE 277/480V EMERGENCY POWER FROM NEW PARALLELING SWGR. 2. PROVIDE NEW ATS AND EQUIPMENT ON 6TH FLOOR TO REPLACE EXISTING	1. PROVIDE SEPARATION TO EXISTING EMERGENCY EQUIPMENT ON 6TH FLOOR.
GENERATOR G5 500KW/625KVA 120V/208V	POWER PLANT	1. DEMOLISH EXISTING GENERATOR AND ED1 –PART OF GENERATOR 2. DEMOLISH EXISTING EMERGENCY SWBD ED2 ON BOILER MEZZ LEVEL 3. DEMOLISH EXISTING ATS–B1 AND EXISTING ATS–B2 4. DEMOLISH EXISTING 208V/2400V STEP UP XFMR SERVING MAIN BLDG 5. REMOVE EXISTING CONDUITS ASSOCIATED WITH THE EXISTING EQUIPMENT TO BE REMOVED.	1. PROVIDE NEW 277/480V EMERGENCY FEEDER FROM THE NEW PARALLELING SWITCHGEAR WITH A 480/120–208V STEP DOWN TRANSFORMER 2. PROVIDE NEW 800A, 120/208V EMERGENCY DISTRIBUTION BOARD TO SERVE NEW ATS'S 3. PROVIDE THREE NEW ATS'S, (1) LS, (1) CR AND (1) EQ AND NEW ATS–B2 FOR THE CPC–1 COMPUTER PANEL. 4. PROVIDE NEW LS, CR AND EQ DISTRIBUTION PANEL BOARDS. 5. RE–ROUTING ALL EXISTING EMERGENCY LOADS TO THE APPROPRIATE NEW EMERGENCY PANEL BOARDS.	1. CONSTRUCT A NEW ROOM TO HOUSE THE NEW EQUIPMENT ON BOILER MEZZ LEVEL OR ON ROOF AREA, INCLUDING REQUIRED LTG, FIRE ALARM AND HVAC VENTILATION, FIRE PROTECTIONS.
	MAIN BUILDING	1. DEMOLISH SECTION OF EXISTING 2400V FEEDER (BOILER PLANT SIDE)	1. PROVIDE NEW 480/2400V STEP UP TRANSFORMER (AT NEW GENERATOR PLANT AREA) AND RUN NEW 2400V FEEDER CONNECTING TO THE EXISTING 2400V FEEDER SERVING MAIN BUILDING	1. PROVIDE A NEW SEPARATION ROOM FOR THE EXISTING TWO CRITICAL ATS'S ON THE 7TH FLOOR 2. PROVIDE NEW SEPARATE WALL FOR THE THREE EXISTING ATS –POSSIBLY RELOCATE ONE EQUIPMENT BRANCH ATS. 3. MAY INVOLVE SOME HVAC RE–PIPING WORK 4. PROVIDE TWO NEW EMERGENCY SERVICE ROOMS (EAST & WEST).
	BAXTER BUILDING	1. REMOVE EXISTING EMERGENCY FEEDER TO EXISTING ZENITH ATS	1. PROVIDE NEW 200A 120/208V EMERGENCY FEEDER FROM POWER PLANT NEW EMERGENCY DISTRIBUTION.	1. NO ARCH WORK
	BAXTER BUILDING (UPS–COMPUTER ROOM)	1. DISCONNECT EXISTING EMERGENCY POWER TO 100KVA UPS FROM POWER PLANT EM PANEL CRC–1.	1. PROVIDE NEW 208V EMERGENCY POWER SUPPLY TO EXISTING 100KVA UPS BYPASS INPUT.	1. NO ARCH WORK
GENERATOR G6 350KW/437KVA 277V/480V	RADIOLOGY	1. DISCONNECT EXISTING GENERATOR OUTPUT POWER TO EXISTING EMERGENCY POWER DISTRIBUTION BOARD "EDB"	1. PROVIDE 277/480V EMERGENCY POWER FROM NEW PARALLELING SWGR. 2. PROVIDE NEW CONNECTION FROM EXISTING GENERATOR G6 TO A MANUAL TRANSFER SWITCH SERVING SOUTH BUILDING.	1. NO ARCH WORK
GENERATOR G7 400KW/500KV 120V/208V	SOUTH BUILDING	1. REMOVE EXISTING EMERGENCY GENERATOR G–7 2. REMOVE EXISTING EMERGENCY DISTRIBUTION BOARD E–USSA 3. REMOVE TOTAL OF (5) EXISTING ATS (ATS–WT1, ATS–WT2, ATS–WT3, ATS–WT4, ATS–WT5) 4. REMOVE NORMAL & EMERGENCY POWER TO EXISTING ATS'S.	1. PROVIDE 277/480V EMERGENCY POWER FROM NEW PARALLELING SWGR. 2. PROVIDE NEW MANUAL TRANSFER SWITCH AND BACKUP EMERGENCY POWER FROM THE EXISTING RADIOLOGY GENERATOR G6 3. PROVIDE 480–120/208V STEP DOWN TRANSFORMER 4. PROVIDE NEW ELECTRICAL ROOM (ONE OR TWO) TO HAVE NEW EMERGENCY EQUIPMENT 5. PROVIDE MINIMUM (3) NEW ATS & ASSOCIATED EMERGENCY DISTRIBUTION PANELS 6. PROVIDE NORMAL POWER TO NEW ATS'S 7. PROVIDE RE–ROUTE EXISTING EMERGENCY LOADS TO NEW ATS/EDP	1. PROVIDE NEW ELECTRICAL ROOMS TO HOUSE NEW EMERGENCY EQUIPMENT
NEW GENERATOR SYSTEM–277/480V (3)–1500KW	SERVING ALL BUILDINGS	1. DEMO EXISTING UNDERGROUND UTILITIES. 2. DEMO EXISTING POWER TO EXISTING COTTAGE BUILDING	1. PROVIDE NEW GENERATOR SYSTEM CONSISTS OF THREE (3) 1500KW, 277/ 480V GENERATORS, PARALLELING SWITCHGEAR AND LOAD BANKS. 2. PROVIDE NEW EMERGENCY FEEDERS TO ALL THE EXISTING BUILDINGS AND TIE INTO EXISTING/MODIFIED EXISTING BUILDING EMERGENCY SYSTEM. 3. PROVIDE EMERGENCY POWER MONITORING SYSTEM FOR ALL ATS'S AND TIE TO THE EXISTING MEDISYS BMS SYSTEM. 4. PROVIDE POWER TO ALL ASSOCIATED MEP EQUIPMENT WITHIN NEW BUILDING. 5. PROVIDE LIGHTING AND FIRE ALARM COVERAGE FOR NEW BUILDING 6. PROVIDE LIGHTNING PROTECTION TO THE NEW BUILDING	1. PROVIDE FOR A EMERGENCY GENERATOR CENTRAL PLANT BUILDING WITH ALL THE MEP REQUIREMENTS.

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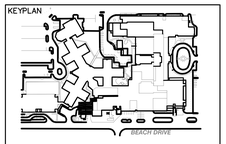

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

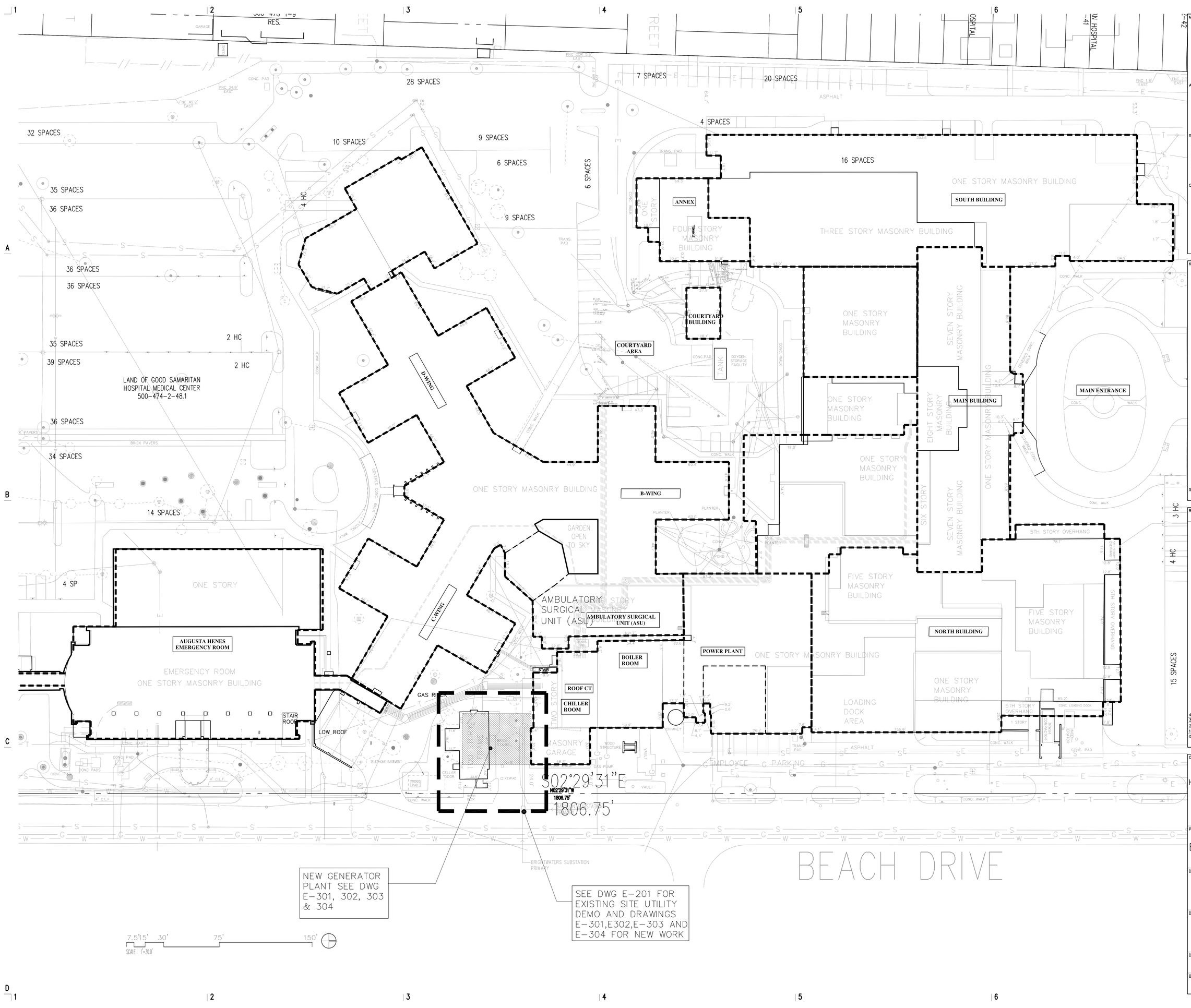
DRAWING NUMBER

E005

DRAWING NAME

ELECTRICAL SCOPE OF WORK SUMMARY

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE005
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



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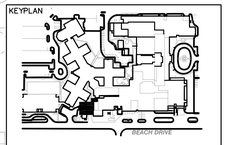

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PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E010

DRAWING NAME
ELECTRICAL NEW CENTRAL CENTRAL SITE PLAN

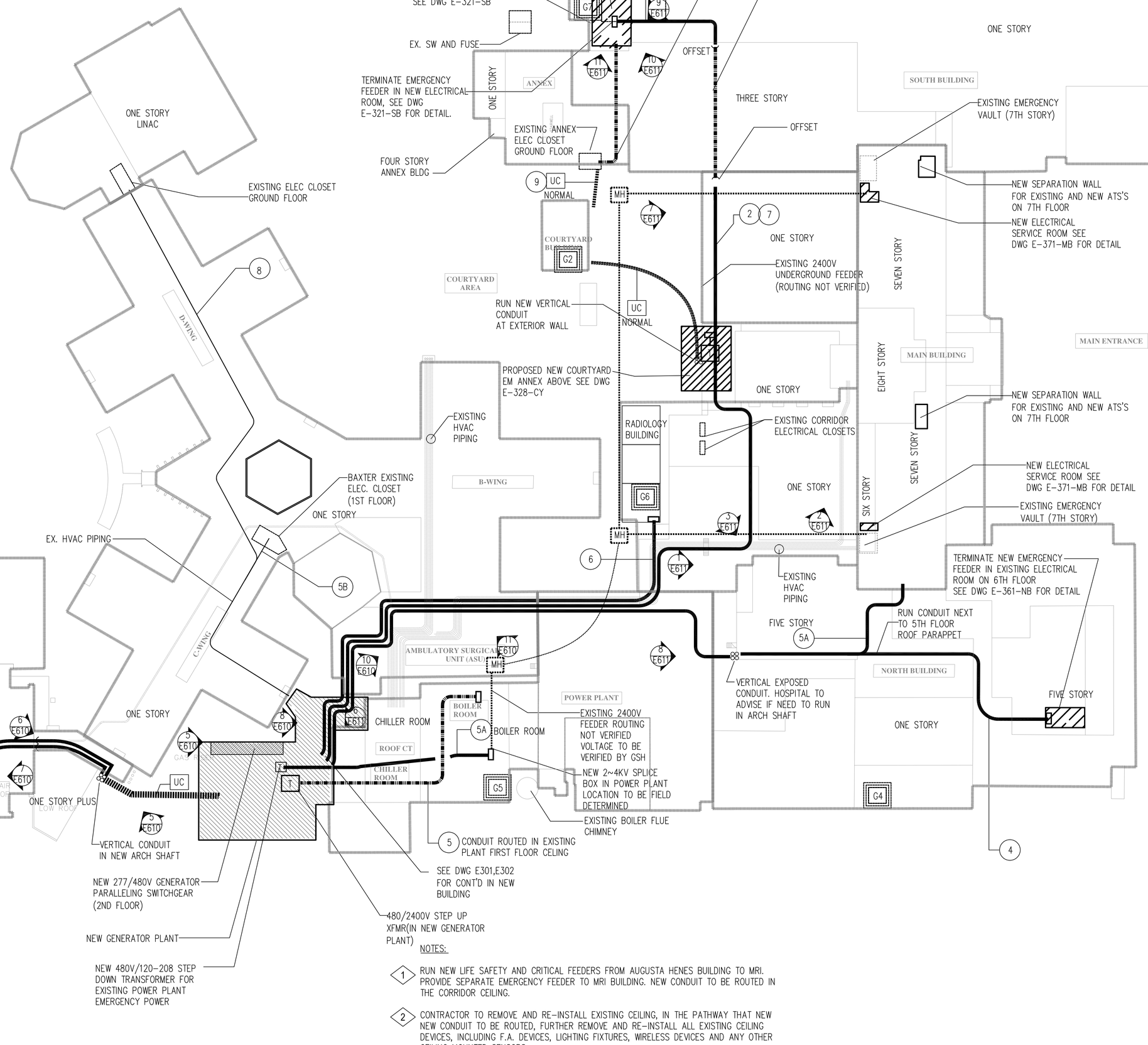
DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE010
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

LEGEND

- G1 — EXISTING GENERATOR APPROX. LOCATION (G1~G7)
- T — EXISTING 208V/2400V TRANSFORMER (FOR MAIN BLDG). LOCATION NOT VERIFIED.
- EXISTING 2400V FEEDER (FOR MAIN BLDG ONLY) ROUTING NOT VERIFIED
- NEW 480V, 3φ, FEEDER FROM NEW PSG TO VARIOUS BLDG (ROUNTED ON ROOF)
- NEW 480V FEEDER TERMINATED AT EACH BLDG, EXACT LOCATION, FLOOR & DETAILS TO BE DEVELOPED.
- T — NEW 480/120-208V STEP DOWN TRANSFORMER. UNLESS OTHERWISE NOTED
- PROPOSED NEW CENTRAL GENERATOR PLANT LOCATION
- 1 — NEW 480V FEEDER DESIGNATION
- UC — NEW UNDERGROUND CONDUIT BANK – QUANTITY OF DUCTS AS PER CIVIL DRAWINGS
- CONDUIT OFFSET FOR DIFFERENT ROOF ELEVATION
- 1 / E601 — PHOTO #1 / DRAWING E-601

FEEDER TAG	AREA SERVED	EXISTING GENERATOR SIZE	DESIGN DEMAND	480V,3P (AMP)	NEW FEEDER (4-500MCM-3-1/2"C)	ESTIMATED WEIGHT (LBS/LF) 18 LBS/LF /SET
1	AUGUSTA HENES	750KW/937KVA	600KW	850	4-SETS	77
2	COURTYARD (EM ANNEX)	600KW/750KVA	480KW	680	4-SETS	77
3	MRI	400KW/500KVA	320KW	452	2-SETS PLUS LS & CR	41
4	NORTH BLDG	460KW/575KVA	368KW/460KVA	554	4-SETS	77
5	POWER PLANT	500KW/625KVA	425KW	602	5-SETS, 480V (WITHIN BLDG)	90
5A	MAIN BLDG	300KVA STEP UP XFMR	425KW	602	1-SET-HV ENCASED IN 2" CONC	(<< 18)+5
5B	BAXTER BLDG	FED FROM POWER PLANT G VIA 200A SW	72KVA	<100	1-SET	15
6	RADIOLOGY	350KW/437KVA	280KW	397	3-SETS	59
7	SOUTH BLDG	400KW/500KVA	400KW	567	3-SETS	59
8	LINAC	COURT YARD G VIA 208V, 225A SW	----	---	1-SETS -2"	10
9	SOUTH BLDG (NORMAL)	----	----	120/208V	2-SETS -4" (WITHIN BLDG)	REQUIREMENT PENDING SOUTH BLDG NORMAL PWR EVALUATION.

PROVIDE CONDUIT SUPPORTS FOR CONDUIT BANK ROUTED ON EXISTING ROOF SAME AS EXISTING AS SHOWN ON THIS PHOTO.



NOTES:

1. RUN NEW LIFE SAFETY AND CRITICAL FEEDERS FROM AUGUSTA HENES BUILDING TO MRI. PROVIDE SEPARATE EMERGENCY FEEDER TO MRI BUILDING. NEW CONDUIT TO BE ROUTED IN THE CORRIDOR CEILING.
2. CONTRACTOR TO REMOVE AND RE-INSTALL EXISTING CEILING, IN THE PATHWAY THAT NEW NEW CONDUIT TO BE ROUTED, FURTHER REMOVE AND RE-INSTALL ALL EXISTING CEILING DEVICES, INCLUDING F.A. DEVICES, LIGHTING FIXTURES, WIRELESS DEVICES AND ANY OTHER CEILING MOUNTED SENSORS.

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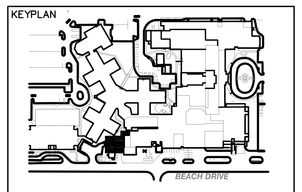


SEAL

REVISIONS	DATE	DESCRIPTION
4	12.04.17	CONSTRUCTION COST ESTIMATE
3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

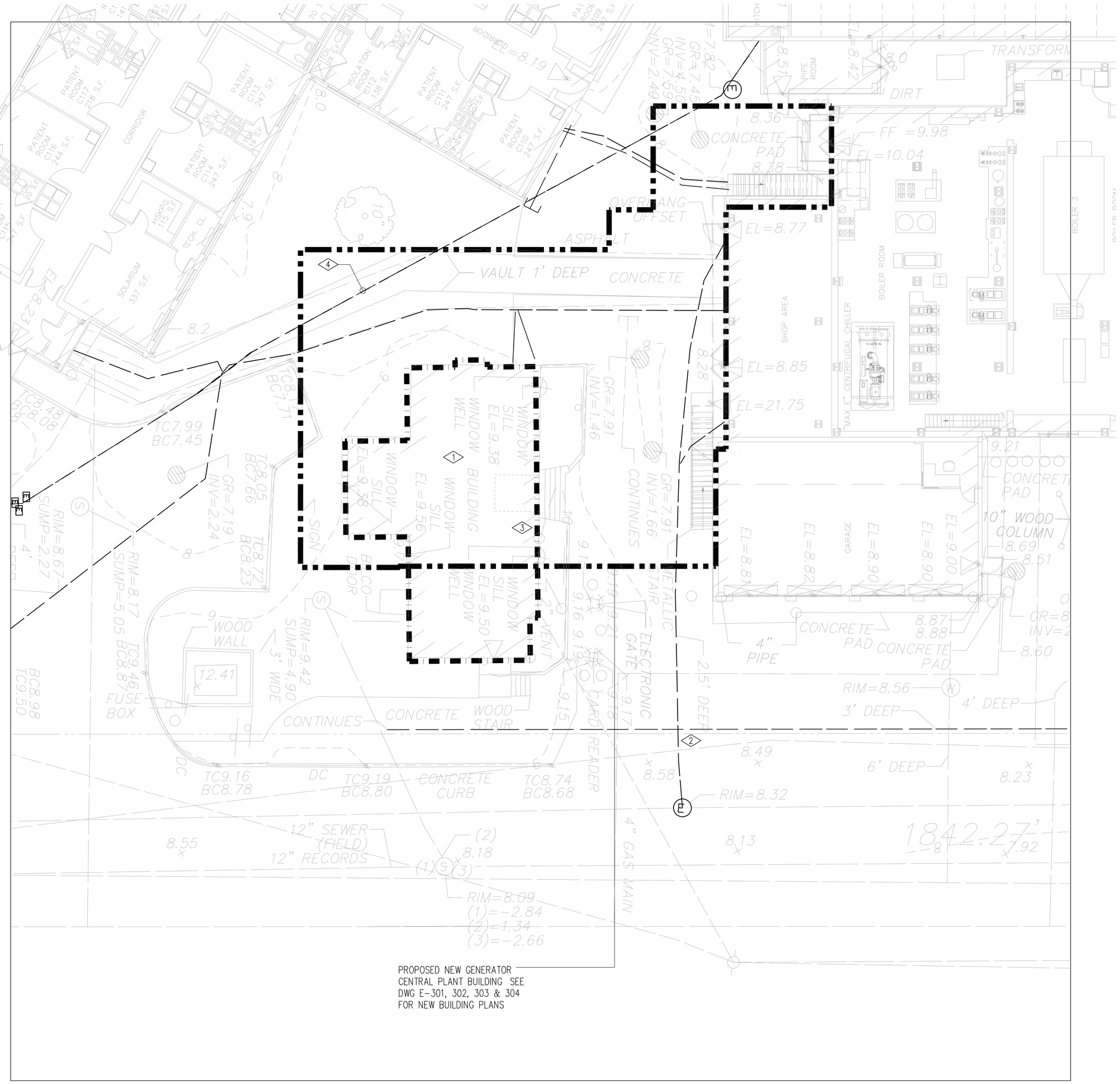
OWNER
GOOD SAMARITAN HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E020

DRAWING NAME
ELECTRICAL FEEDER ROUTING OVERALL ROOF

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE020
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



DEMOLITION NOTES:

1. REMOVE ALL EXISTING MEP UTILITIES TO EXISTING TWO STORY HOUSE.
2. CONTRACTOR TO PROTECT EXISTING UNDER GROUND 13.2KV UTILITY SERVICE LINE DURING DEMOLITION AND CONSTRUCTION, INCLUDING FOUNDATION CONSTRUCTION OF THE NEW BUILDING.
3. REMOVE EXISTING ELECTRICAL POWER SUPPLY TO THE EXISTING COTTAGE BUILDING. EXISTING POWER 60A SERVICE FED FROM BAXTER BUILDING ELECTRICAL CLOSET PANEL EMDP-B- SEE RISER ON E-503.
4. CONTRACTOR TO COORDINATE WITH THE HOSPITAL AND RELOCATE EXISTING PHONE LINE TO OUTSIDE BLDG FOOT PRINT. COORDINATE DETAILS WITH HOSPITAL FOR THE PHONE LINE.

EXISTING UTILITY TRENCH

MEP ENGINEER
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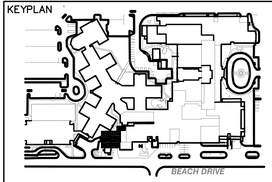

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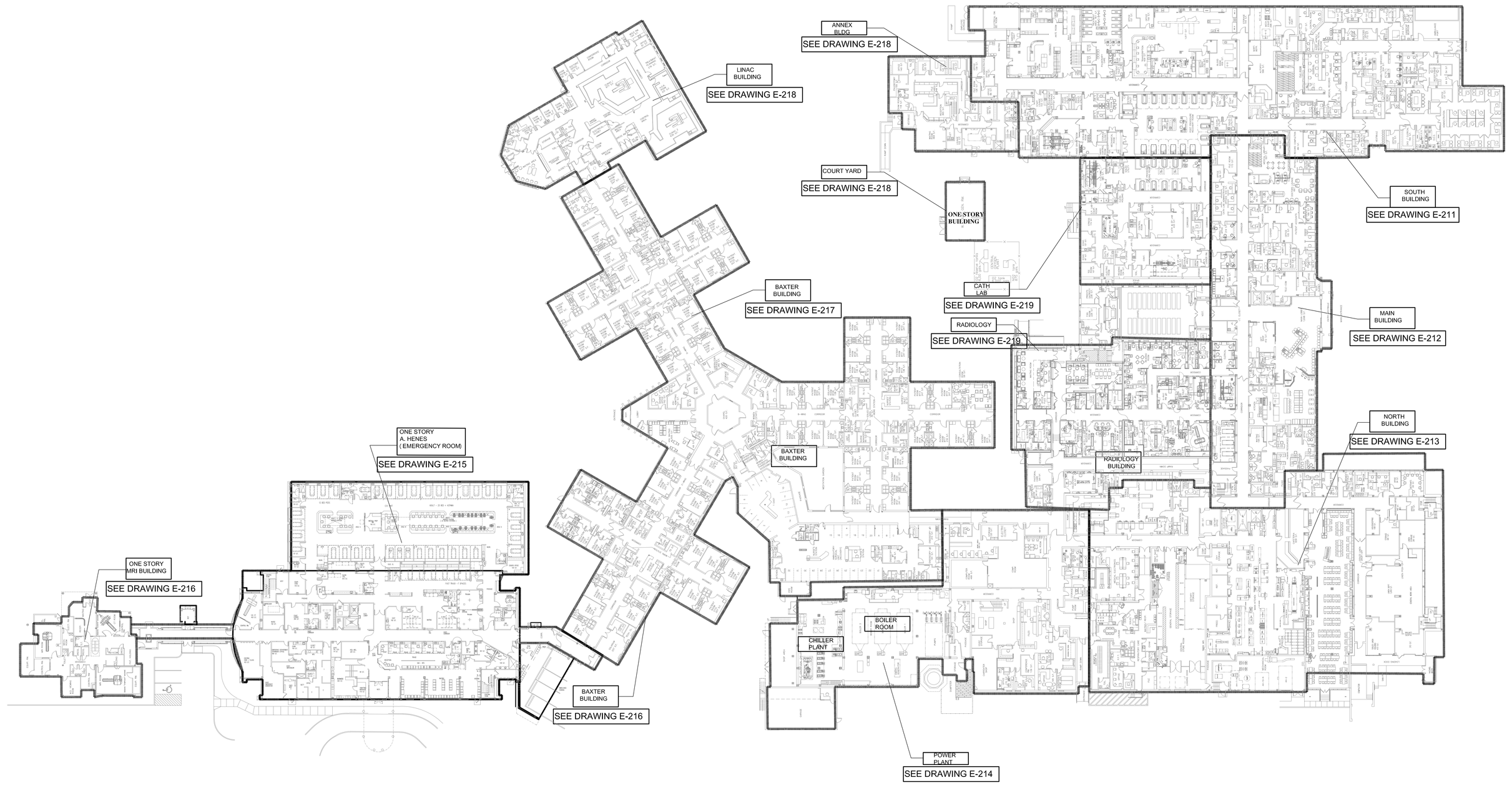
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E201

DRAWING NAME
NEW CENTRAL GENERATOR PLANT EXISTING UTILITY DEMOLITION

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE201
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



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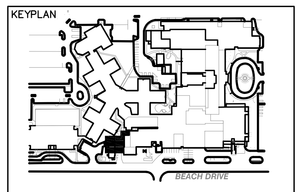

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OWNER

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WEST ISLIP, NY 11795

PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E210

DRAWING NAME

FIRST FLOOR OVERALL PLAN EXISTING & DEMOLITION

DRAWING SCALE	DRAWING FILE
1/32"=1'-0"	GSHE210
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

PHOTO #1 -GENERATOR ROOM ENTRANCE

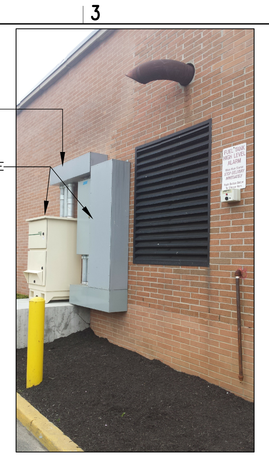

PHOTO #2 -PORTABLE GENERATOR CONNECIION STATION

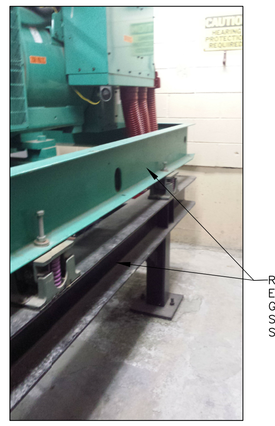

PHOTO #3 -GENERATOR SUPPORTING STRUCTUTRE

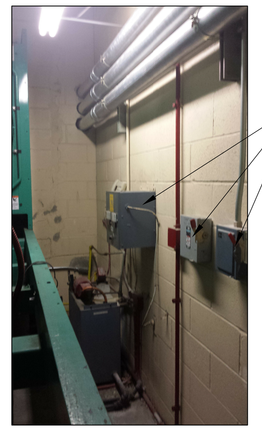

PHOTO #4 -PORTABLE GENERATOR CONNECTION CONDUITS AND MISC ELEC EQUIPMENT.

SOUTH BUILDING

MAIN BUILDING

PHOTO#2

PHOTO#1

3
E-603

EX. PANEL 'ED'(225A MLO) 200A-3P TO THE WAITING RM PANEL

EX. PANEL CD 100A MLO (EMERG) FROM 1 SOUTH ELEC. ROOM

EX. PANEL LSD 30A MCB (EMERG) FROM 1 SOUTH ELEC. RM

EX. PP-LAB1 (100A MLO)
EX. PP-LAB (100A MLO)
EX. PP-LABA (225A MLO)
EX. PP-LABB (225A MLO) 100A SP TO PP-LAB 50A SP TO PP-LAB1

EX.CC1 100A MLO
EX.CC2 225A MLO
SP TO PP-LABA
EX. LSC (30A MCB)

EX. PPD (NORMAL)

EX. LP-D (NO RM)

LPE (100A MLO)
EX. PP-C (NO RM)
EX. LPC-A CB (EMERG) 100A MCB EACH
EX. LPC-1

EX. PR-1
EX. PP-2

EX. LPA

EX. ANGIOPLASTY X-RAY MACHINE

EX.LP-N

EX. 150KVA UPS-EP(CR)

EX.EQ-1A
EX.LS-1A
EX.NLP1A
EX. CR1A 200A MCB SEC PNL

EX. WE-2
EX. WE-1 150A FEED FROM ANNEX ELEC. RM

EX. W-4
EX. W-3
EX. WE-5 100A MLO FROM WE-1

EX.JOHNSON CONTROL BMS

EX. CNEMP 225A MLO.

EX.LP-BE (70A MCB)
EX.LP-B (NO RM)

EX. EM DP (MCC W/4 STARTERS) TO REMAIN

EX. ATS (ISOLATION SW. AUTO-TRANSFER

EM DP (BOTTOM) 30A-3P SPARE- 30-3P A- MCC- A - PNL E2 (2ND FLOOR)

EX. ANNEX MDP- 1000A FUSED SW. TO REMAIN

EX. ISO SW FOR ATS

ANNEX MECH EQUIP ROOM (SEE DWG E-503A)

EX. 480V PNL PPD (NO RM)

EX.W-1 (NO RM)

MANHOLE LOCATION

EX 112.5KVA XFMR 208-277/480V(EQ) (BOTTOM)

EX D/S X-RAY 2(TOP)
EX D/S X-RAY 1 (BOT)

EX PP-AC
EX CATHLAB EM PANEL
EX DS CATH LAB

EX LP-AE (LS)(EM) 70A-MAIN
EX LP-A
EX WC

EX. DS (TOP)
EX DS (BOTTOM)

EX 225KVA(CR) XFMR 208-277/480V (TOP)

EX. 60A EM PNL FED FROM UPS ROOM

EX. 'KP-1' FEED 225A CB

EX. LOA (NO RM)

EX PANEL 'CH' (NO RM)

RAMP-UP

RAMP-UP

ANGIO-ISLE WITH FICKER X-RAY

EX ANGIO SYSTEM 208v (TYP)

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SEAL

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WEST ISLIP, NY 11795

PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E211-SB

DRAWING NAME

FIRST FLOOR PLAN EXISTING & DEMOILITION PART 1 -SOUTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE211SB
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

EX. LP-N

EX. EQ-1A
EX. LS-1A
EX. NLP1A
EX. CR1A
200A MCB
SCC, PNL

EX. 150KVA UPS-EP(CR)

EX. WE-6
150A FEED FROM
ANNEX ELEC. RM

EX. W-4
EX. W-3

EX. WE-5
100A MLO
FROM WE-1

EX. WER-1&2
200A MLO
EACH

EX. JOHNSON CONTROL BMS

EX. CNEMP
225A MLO

EX.LP-BE
(70A MCB)

EX.LP-B
(NO RM)

EX. 480V PNL PPD
(NO RM)

EX.W-1
(NO RM)

MANHOLE LOCATION

EX 112.5KVA
XFMR 208-277/480V(EQ)
(BOTTOM)

EX D/S X-RAY 2(TOP)
EX D/S X-RAY 1 (BOT)

EX LP-AE (LS)(EM)
70A-MAIN
EX LP-A
EX WC

EX PP-AC
EX CATHLAB EM PANEL
EX DS CATH LAB

EX DS (TOP)
EX DS (BOTTOM)

EX 225KVA(CR)
XFMR 208-277/480V (TOP)

EX. KP-1
FEED 225A CB

EX LOA
(NO RM)

EX 60A
EM PNL
FED FROM
UPS ROOM

EX PANEL CH
(NO RM)

EX DPEM (120/208 MLO)
200A CSR MECH, 60A TELECOMM, 100A ASU SOUTH
(AMBULATORY), 100A LPEM, 200A CARDIO N.
200A (FOR LOCKER RM PNL-A & B)

EX. LP-1
EX. LS-1
100A MCB
EX. EQ-1
100A MCB

EX. MEDI SEC. 1&2
200A MCB; 84 CKTS
120/208V
(EQ)

EX. PANEL EM-1
225A MLO FROM 200A
SWITCH ON 7 WEST
MACH ROOM(2 POLE 60A
SERVES EM-COMP)

EX. EA-1
(NO RM)

EX. EM-COMP(EQ)
(EMERG)

EX SYSTEM
ISOLATION SW
120/208V-600A
(TWO INPUT)

EX CP PNL

EX CP PNL#1

EX CPU PNL#

SOUTH BUILDING

MAIN BUILDING

NORTH BUILDING

RADIOLOGY BUILDING

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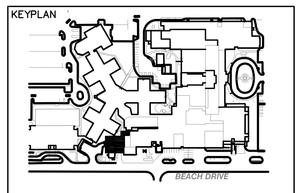

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ISSUE	DATE	DESCRIPTION

OWNER

GOOD SAMARITAN
HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

DRAWING NUMBER

E212-MB

DRAWING NAME

FIRST FLOOR PLAN
EXISTING & DEMOILITION
PART 2-MAIN BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE212
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

EX. DPEM (120/208, MLO)
200A CSR MECH, 60A TELECOMM, 100A ASU SOUTH (AMBULATORY), 100A LPEM, 200A CARDIO N.
200A (FOR LOCKER RM PNL-A & B)

EX. LP-1
EX. LS-1
100A MCB

EX. EQ-1
100A MCB

EX. MEDI SEC. 1&2
200A MCB; 84 CKTS
120/208V
(EQ)

EX. PANEL EM-1
225A MLO FROM 200A SWITCH ON 7 WEST MACH. ROOM (2 POLE 60A SERVES EM-COMP)

EX. EA-1
(NO RM)

EX. EM-COMP(EQ)
(EMERG)

EX. PP-CSS

EX. PPG

EX. ACCESS CONTROL CARD READER

EX. CSRE
225A MCB
NEMA 3R

EX. N PNL

EX. PPE

EX. PP-E1

EX. PP-EE (EMERG)
100A MCB 120/208V
PANEL HAS (2)70A-3P C/B'S FOR NLPEE & PNL P.E.
EX. LP-E

EX. PPK-1&2

EX. PP-KA
(2 SECTION)

EX. NLPEE (EM)
70A MCB
120/208V

EX. NPPE
SECT 1,2
(NORMAL)

EX. PP-KA-1&2

EX. LP-1A

EX. PP-LE (EM)
225AMP(120/208V)

EX. PNL K-1 (EM)

WELL PUMP

D/S 3P-30A

EX FIRE PUMP (100HP) CONTROLLER

EMERGENCY GENERATOR

FIRE PUMP

EX. PP-1E
175AMP C/B
120/208V

EX EMSP-2
SEC 1&2
200A MLO
(480V)

EX. MSP-1
SEC1&2

EX. 75 KVA TRANSFORMER
480-120/208V

GENERATOR REMOVAL PATH

NORTH BUILDING

DEMOLITION NOTES: (NORTH BUILDING)

A. REMOVE EXISTING EMERGENCY GENERATOR AND ASSOCIATED WIRING (INCLUDING REMOVE POWER TO BATTERY CHARGER, REMOVE GENERATOR START SIGNALS FROM ALL SIX(6) EXISTING ATS'S AND EXISTING POWER WIRING AS PER RISER DIAGRAM) AFTER ALL LOADS BEING TRANSFERRED TO NEW EMERGENCY SYSTEM. EXISTING CONDUIT WIRES FROM EXISTING GENERATOR UP TO SIXTH FLOOR EMOP TO REMAIN & TO BE RE-USED FOR PORTABLE GENERATOR CONNECTION. REFER TO DRAWING E505-NB(N) & MAINTAIN POWER CONTINUITY FOR THE PORTABLE GENERATOR.

B. DUE TO SPACE AND PHYSICAL CONDITION THE EXISTING GENERATOR SHALL BE DISASSEMBLED AND REMOVED IN PIECES.

C. EXISTING EMERGENCY FEEDER FROM EXISTING GENERATOR LOCATION UP TO 6TH FLOOR TO REMAIN AND TO BE REUSED FOR THE PORTABLE GENERATOR CONNECTION. EXISTING CONNECTION EQUIPMENT TO THE EXISTING GENERATOR VERTICAL RISER SHALL REMAIN.

D. CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT TO REMAIN DURING DEMOLITION.

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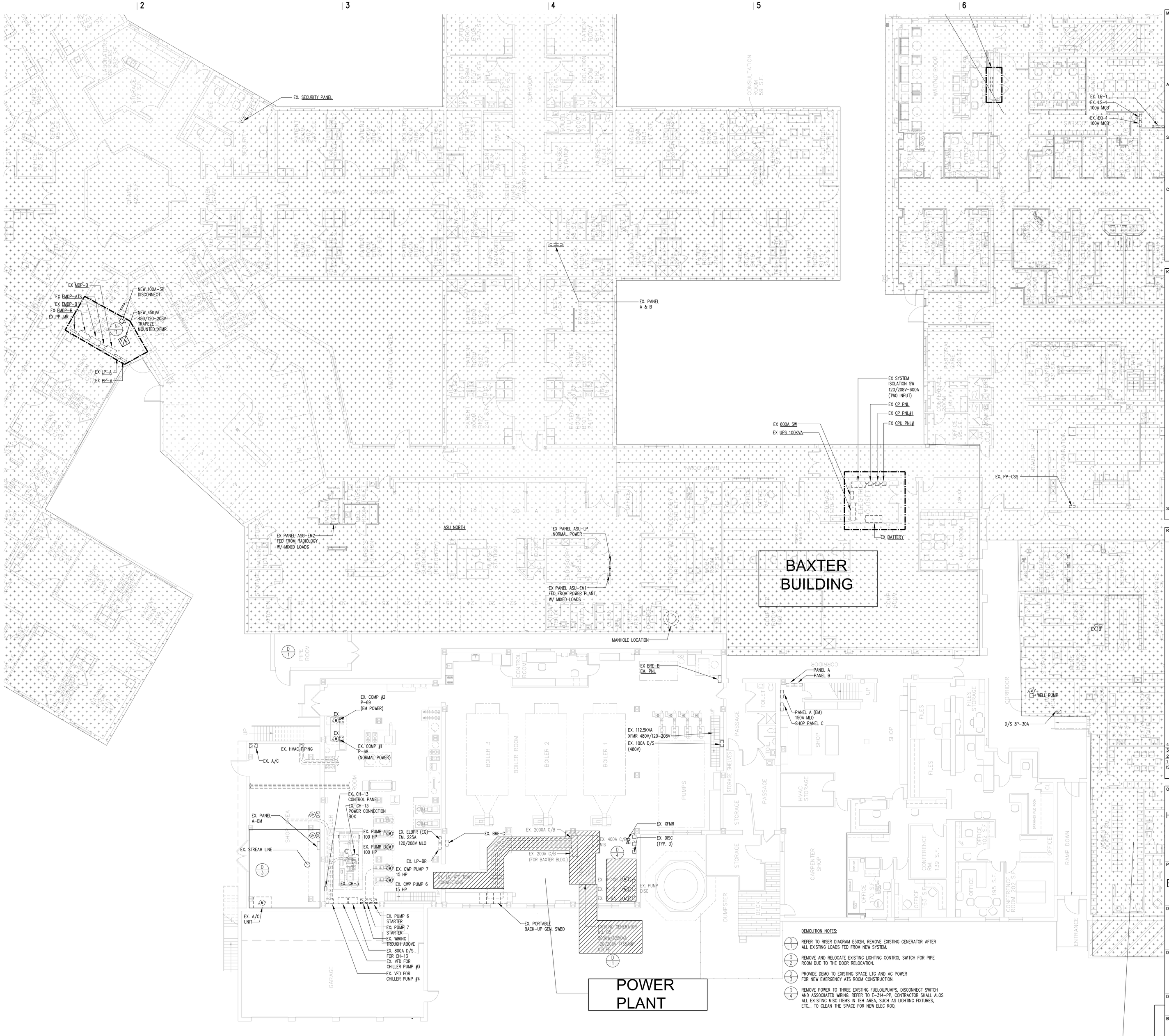
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E213-NB

DRAWING NAME
FIRST FLOOR PLAN EXISTING & DEMOILITION PART 3-NORTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE213
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E214-PP

DRAWING NAME
FIRST FLOOR PLAN EXISTING & DEMOILITION PART 4-POWER PLANT

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE214
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

ONE STORY
A. HENES

SCOPE OF DEMOLITION WORK SUMMERY (BASE)

1. REMOVE EXISTING EMERGENCY GENERATOR AND ASSOCIATED CONNECTIONS. INCLUDING REMOVE POWER TO EXISTING LOUVER POWER TO EXISTING GENERATOR BATTERY.
2. REMOVE POWER CONNECTIONS TO EXITING LOUVERS AND ALL POWER CIRCUITS ASSOCIATED WITH THE EXISTING GENERATOR.
3. REFER TO RISER DIAGRAM E507-AH. AFTER EXISTING GENERATOR REMOVED, EXISTING EPR-LS CAN BE DE-ENERGIZED. RELOCATE EXISTING TROUGH AT THAT TIME.
4. REMOVE ALL EXISTING BRANCH CKTS RELATED TO EXISTING GENERATOR. PROVIDE TEMPORARY POWER CONNECTION BETWEEN PANEL A-LS & ERP-LS IF ANY EXISTING ACTIVE BRANCH CKTS TO REMAIN.
5. REMOVE EXISTING WIRING TROUGH
6. REMOVE EXISTING PORTABLE GENERATOR CONNECTION CONDUITS/RELOCATE TO CEILING LEVEL.
7. REFER TO ARCHITECTURAL DWG A-206 EXISTING WALL TO BE HARDING FOR WATERPROOF. REMOVE AND REINSTALL JOHNSON CONTROL MEDSYS PANEL.

SCOPE OF DEMOLITION WORK SUMMERY (ALTERNATE)

REMOVE THE FOLLOWING ADDITIONAL ITEMS:

1. EXISTING EMERGENCY PANELS EDP-NE-1.
2. ALL SIX(6) EXISTING ATS'S.
3. ALL ATS DOWNSTREAM EMERGENCY DISTRIBUTION.

NEW WORK
REPLACE E

EX EDP-CB - 400A-120/208V
150A-3P ERP-1B
100A-3P ERP-1A
100A-3P ERP-2A-2B
100A SPARE

EX XFMR
112.5KVA
480-120/208V

EX NORMAL 1600A MAIN (SAME)
480V DIST.

EX PNL A-LS
EX ATS-A-LS
EX PNL B-CB(SE)
EX ATS-B-SE
EX PNL C-MECH(4E)
EX ATS-C-MECH
EX EMERG SERVICE PANEL EDP-ME1

EX ERP-LS
EX EDP-MECH
EX MAIN C/B 600A FIRE PUMP
EX FAN CONTROLLERS

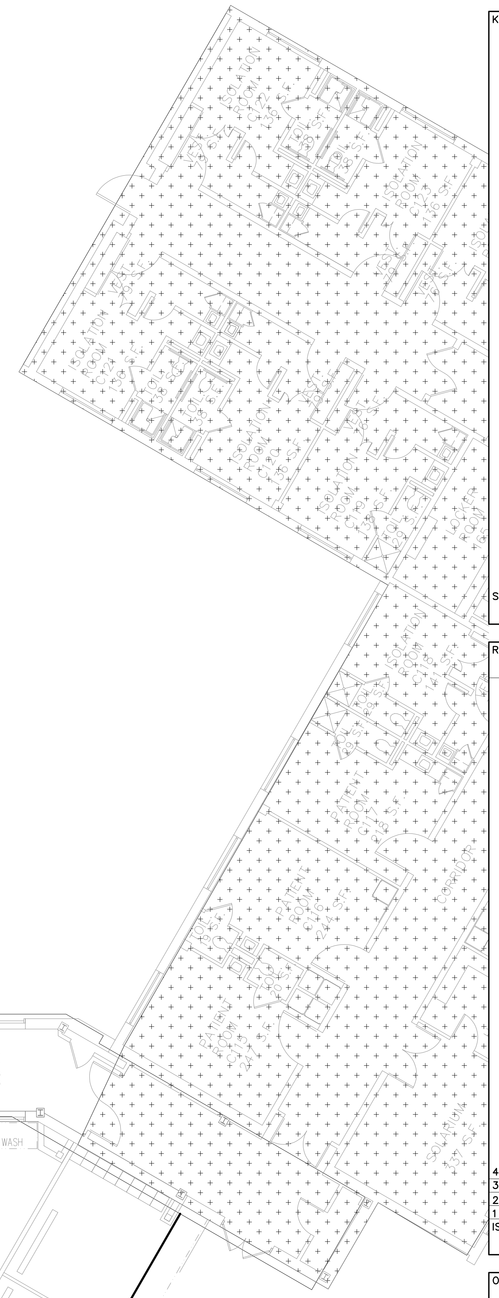
JOHNSON CONTROL
EXISTING PORTABLE GENERATOR STATION

EX EDP-LTG
- (1) 80A-3P FOR LP-2
- (1) 80A-3P FOR LP-1

EX XFMR
112.5KVA
480-120/208V

EX FIRE PUMP
EX ATS-CB
EX ATS-ECMOF
EX ATS-LS
EX EDP-ME
EX ERP-GEN

EX EDP-1M
EX RP-1C
EX RP-1B
EX RP-1A
EX ERP-1A
EX LP-1
EX 400A MAIN DISC
EX STARTERS
EX ERP-1B (U,III)



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REVISIONS DATE DESCRIPTION

ISSUE	DATE	DESCRIPTION
4	12.04.17	CONSTRUCTION COST ESTIMATE
3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT

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HOSPITAL MEDICAL CENTER
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WEST ISLIP, NY 11795

BAXTER BUILDING

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E215-AH

DRAWING NAME
FIRST FLOOR PLAN
EXISTING & DEMOILITION
PART 5 - A HENES

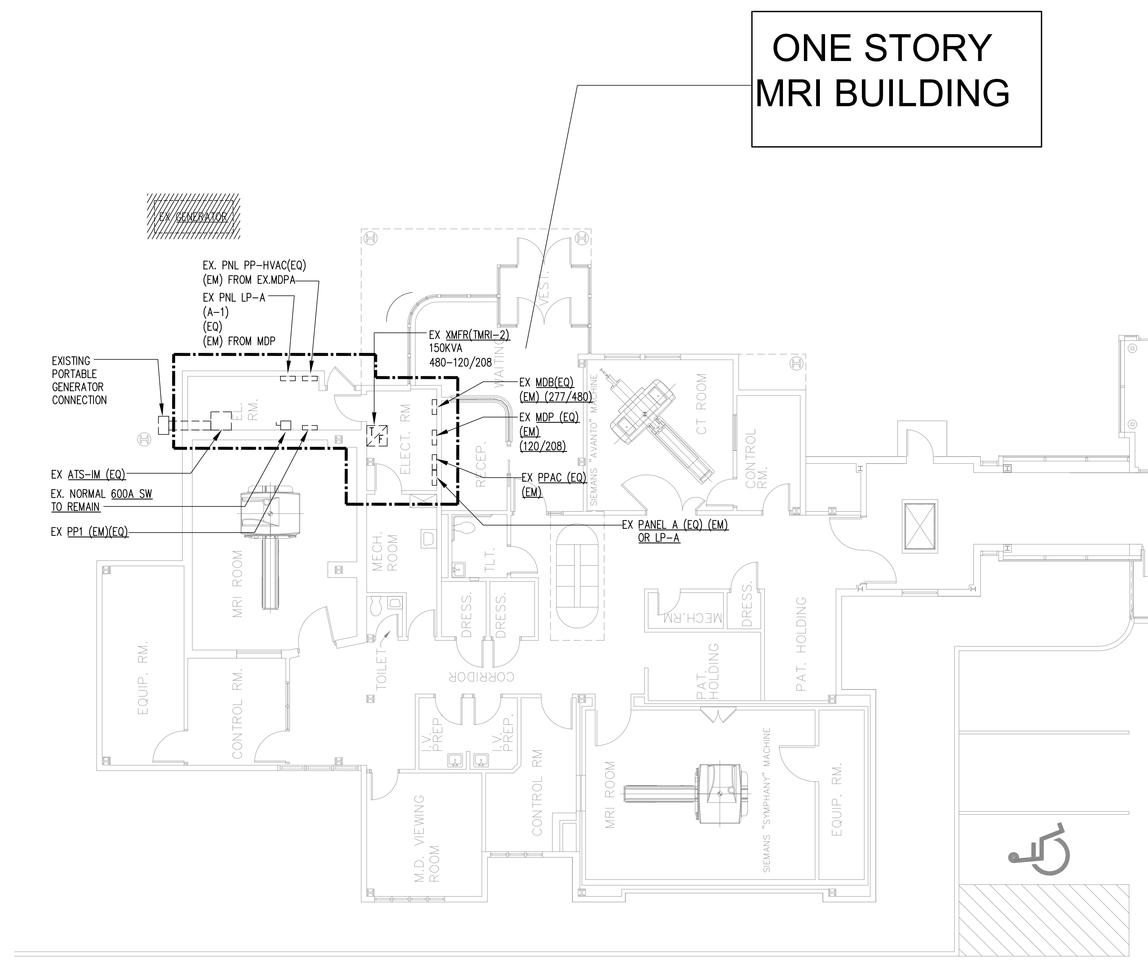
DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE215
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

A

B

C

D



DEMOLITION SCOPE (BASE)

1. REMOVE EXISTING GENERATOR AND CONNECTION.

DEMOLITION SCOPE (ALTERNATE)

1. REMOVE EXISTING GENERATOR AND CONNECTION.
2. REMOVE EXISTING ATS-1M.
3. REMOVE EXISTING MDB.

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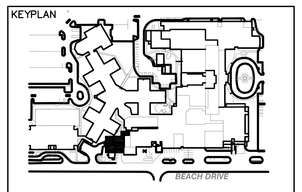

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1	07.30.14	100% DESIGN DEVELOPMENT

ISSUE	DATE	DESCRIPTION

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PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

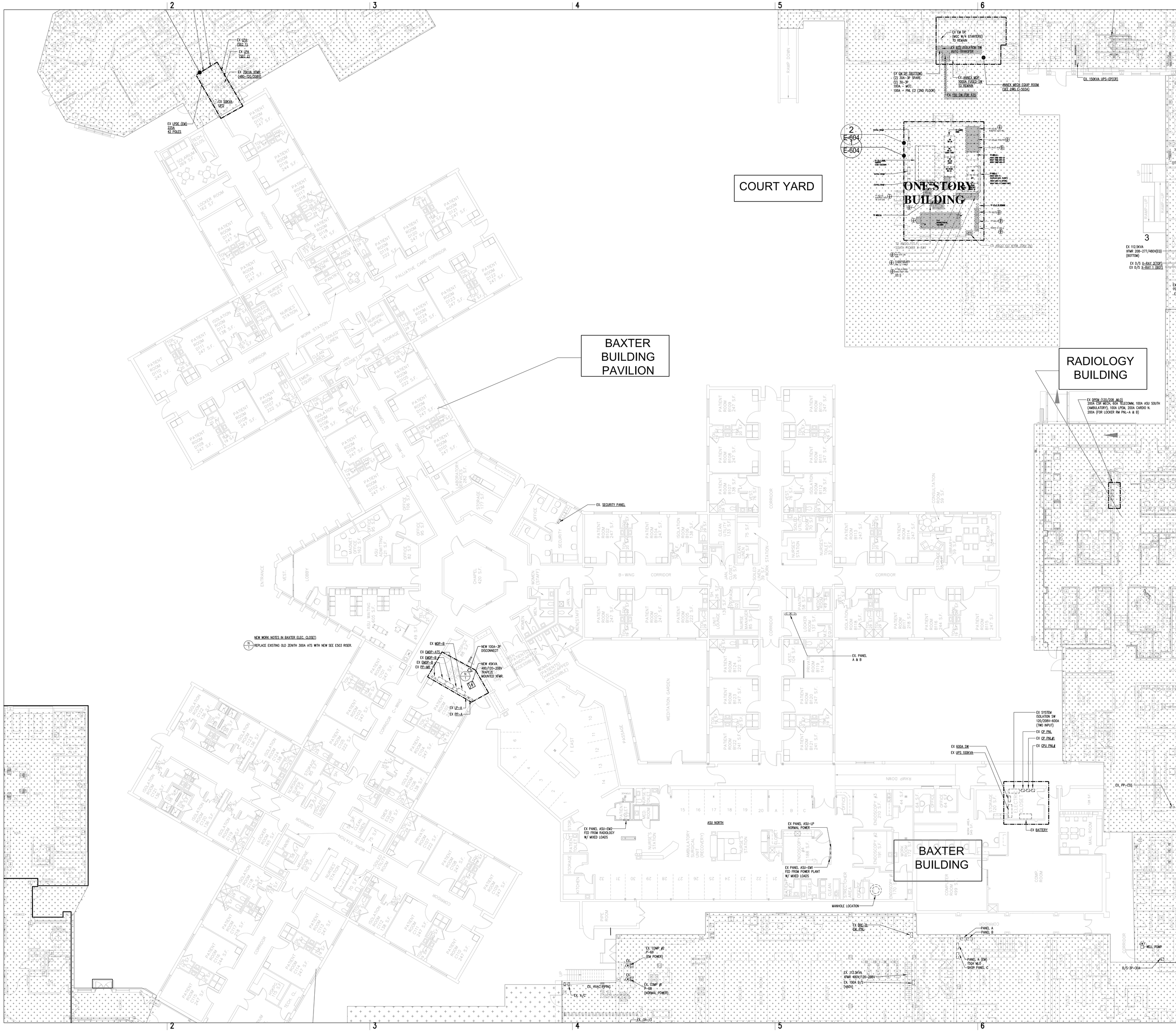
DRAWING NUMBER

E216-MRI

DRAWING NAME

FIRST FLOOR PLAN
EXISTING & DEMOILITION
PART 6-MRI

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE216
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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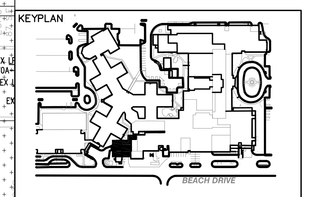

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E217-BX

DRAWING NAME

FIRST FLOOR PLAN
EXISTING & DEMOILITION
PART 7-BARTER

DRAWING SCALE: 3/32"=1'-0"
DRAWING FILE: GSHE217
BINDING ORDER
FIRST ISSUE DATE: 5/20/14

SCOPE OF DEMOLITION WORK NOTE LINAC

1/D DISCONNECT EMERGENCY POWER FOR LPDE FROM COURTYARD GENERATOR SYSTEM AFTER NEW EMERGENCY FEEDER PROVIDED FROM POWER PLANT MEZZ. LEVEL.

LINAC BUILDING

7 E-601

EX PP-MR(480V)
EX. DPA -400A MAIN 480V
- 125A-3P SIMULATION
- 70A-3P X-RAY
- 225A-3P PPMR
- 100A-3P LINAC MACH.
- 100-3P. LPA & LPB

EX LPA (SEC 1)
EX LPA (SEC 2)
EX 75KVA XFMR (480-120/208V)
EX 50KVA UPS
EX LPDE (EM) 225A 42 POLES
1/D

ANNEX BLDG

3 E-603

EX.CG1
100A, MLO
EX.CC2
225A, MLO
SP TO PP-LABA
EX. LSC (30A MCB)

EX. LPA

EX EM DP (MCC W/4 STARTERS) TO REMAIN
EX ATS/ISOLATION SW AUTO TRANSFER
EX EM DP (BOTTOM)
(2) 30A-3P SPARE
(2) 30-3P
100A - MCC
100A - PNL E2 (2ND FLOOR)
EX ANNEX MDP 1000A FUSED SW TO REMAIN
EX 150 SW FOR ATS
ANNEX MECH EQUIP ROOM (SEE DWG E-503A)

EX. ANGIOPLASTY X-RAY MACHINE
EX LP-N
LPE (100A MLO)
EX. PP-C (NO RM.)
EX. LPC-A CB (EMERG) 100A MCB EACH
EX. LPC-1
EX. PR-1
EX. PP-2
EX. 150KVA UPS-EP(CR)
EX.EQ-1A
EX.LS-1A
EX.NLP1A
EX. CR1A 200A MCB SEC. PNL

1 E-604

EX ANGIO ISO XFRM 208V (N)
TO ANGIO 1ST FL SOUTH PICKER X-RAY

COURT YARD

CENTRAL OXYGEN PLANT
02 reserve tanks 6,00 gals.
02 tank 6,000 gals.
NO2 tank 875 gals.

3
EX 112.5KVA XFMR 208-277/480V(EQ) (BOTTOM)
EX D/S X-RAY 2(TOP)
EX D/S X-RAY 1 (BOT)
EX PP-AC
EX CATHLAB EM PANEL
EX DS CATH LAB
EX LP-AE (LS)(EM) 70A-MAIN
EX LP-A
EX WC
EX. DS (TOP)
EX DS (BOTTOM)
EX 225KVA(CR) XFMR 208-277/480V (TOP

RADIOLOGY BUILDING

EX DPEM (120/208 MLO)
200A CSP MECH, 60A TELECOMM, 100A ASU SOUTH (AMBULATORY), 100A LPEM, 200A CARDIO N.
200A (FOR LOCKER RM PNL-A & B)

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2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

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PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E218-CY

DRAWING NAME
FIRST FLOOR PLAN EXISTING & DEMOILITION PART 7-COURTYARD

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE218
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E219-RD

DRAWING NAME

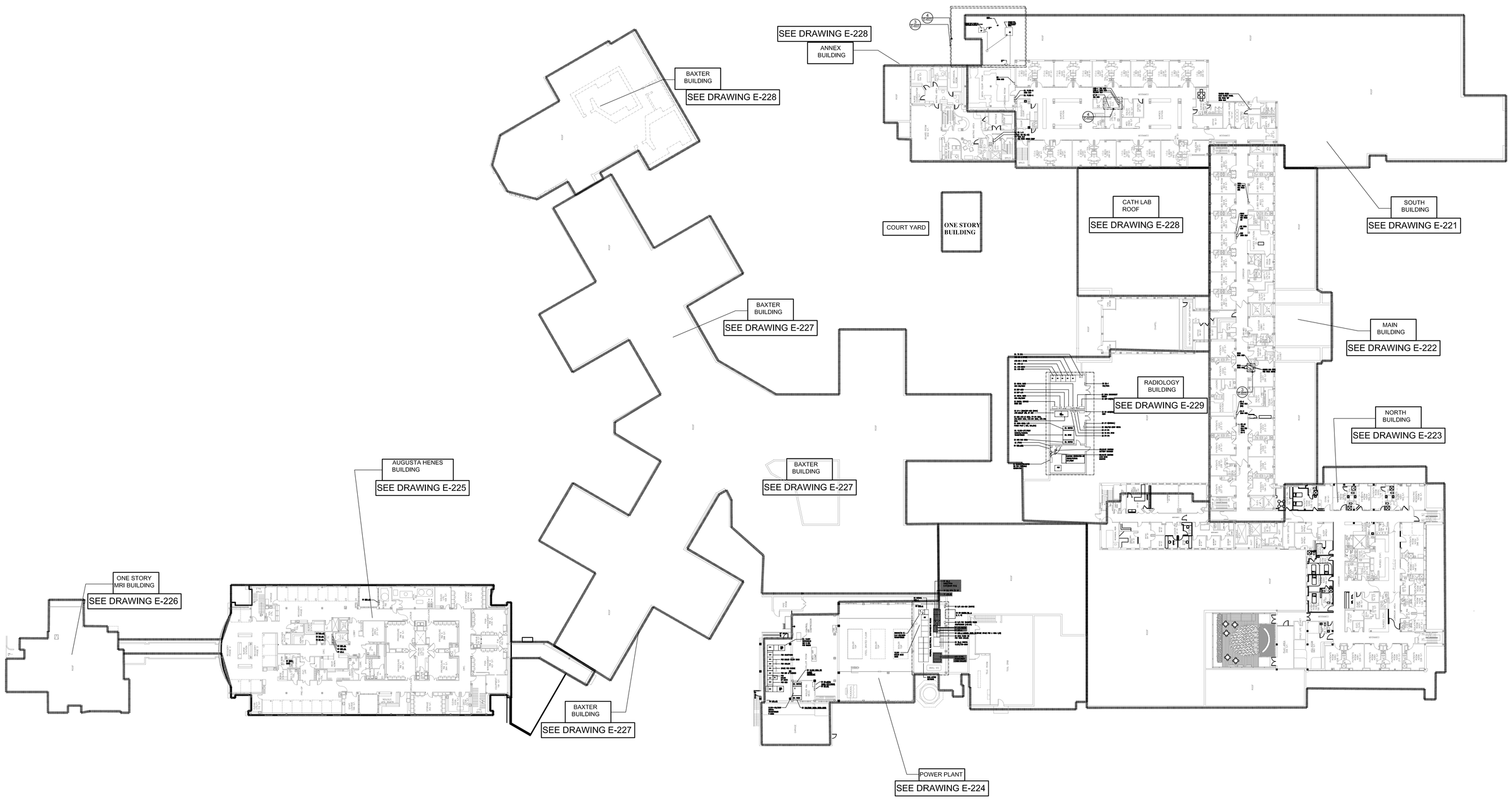
FIRST FLOOR PLAN
EXISTING & DEMOILITION
PART 9-CATH LAD AND RAD

DRAWING SCALE: 1/8"=1'-0"

DRAWING FILE: GSHE219

BINDING ORDER

FIRST ISSUE DATE: 5/20/14



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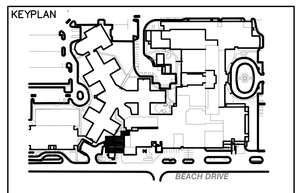

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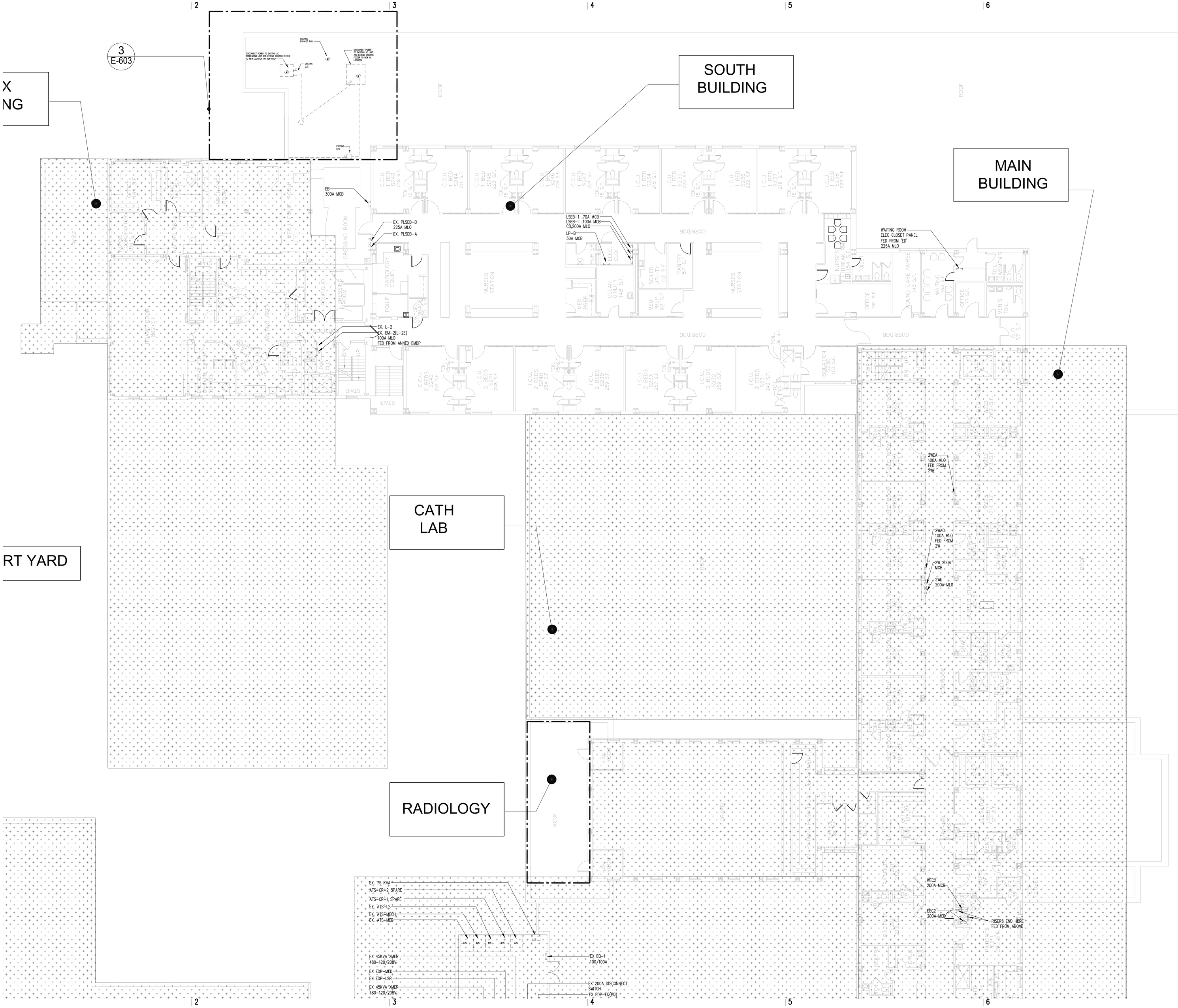
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E220

DRAWING NAME
SECOND FLOOR OVERALL PLAN EXISTING & DEMOLITION

DRAWING SCALE	DRAWING FILE
1/32"=1'-0"	GSHE220
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



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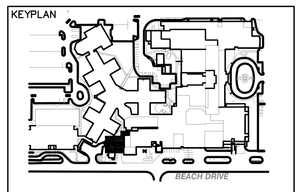

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E221-SB

DRAWING NAME

SECOND FLOOR PLAN EXISTING & DEMOILITION PART 1 - SOUTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE221
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

CATH LAB

MAIN BUILDING

RADIOLOGY BUILDING

EX. 1-Z
EX. EM-2(L=2E)
100A MLO
FED FROM ANNEX EMDP

EX. 75 KVA
ATS-CR-2 SPARE
ATS-CR-1 SPARE
EX. ATS-LS
EX. ATS-MECH
EX. ATS-MED

EX 45KVA XMER
480-120/208V
EX EDP-MED
EX EDP-LSR
EX 45KVA XMER
480-120/208V
EX EMERG. SERVICE
SWBD EDB

EX LP-1 (800A)DP-MED (600A)
ATS-MED,SP 250, SP 250
EX NDB ATS-LS 250A, PP-PH 250A,
ATS-MECH 400A, ATS-CR1 250A, ATS-CR2
250A
EX 480V-1600A C/B
POWER PACT (.95A, 96A,95A)
EX. 13.2KV-277/480V
1000KVA/1333KVA
TRANSFORMER
EX USS RAD.600A
EX 3"PIPE
EX ERP-GEN

EX. MANUAL TRANSFER
SW FOR PORTABLE
GENERATOR

EX EQ-1
100/100A
EX 200A DISCONNECT
SWITCH
EX EDP-EQ(EQ)
EX. DP-MED(EQ)
480V
EX LP-1(NORMAL)
EX. 480/120-208V 45KVA
EX. LP-PH.
EX. 15 KVA XFMR
EX. PP-PH.
RELOCATE EXISTING
BATTERY CHANGER
RELOCATE EXISTING
LOAD BANK
MONITOR

EXISTING GENERATOR-GE
350KW/437KVA
277/480V

EOT

2WEA
100A MLO
FED FROM
2WE
2WAC
100A MLO
FED FROM
2W
2W 200A
MCB
2WE
200A MLO

WEC2
200A MCB
EEC2
200A MCB
RISERS END HERE
FED FROM ABOVE

3
E-602

EE-2
200A MLO
(EM)
EA-2
200A MCB
2E-AC
100A
MLO FED
FROM
EA-2

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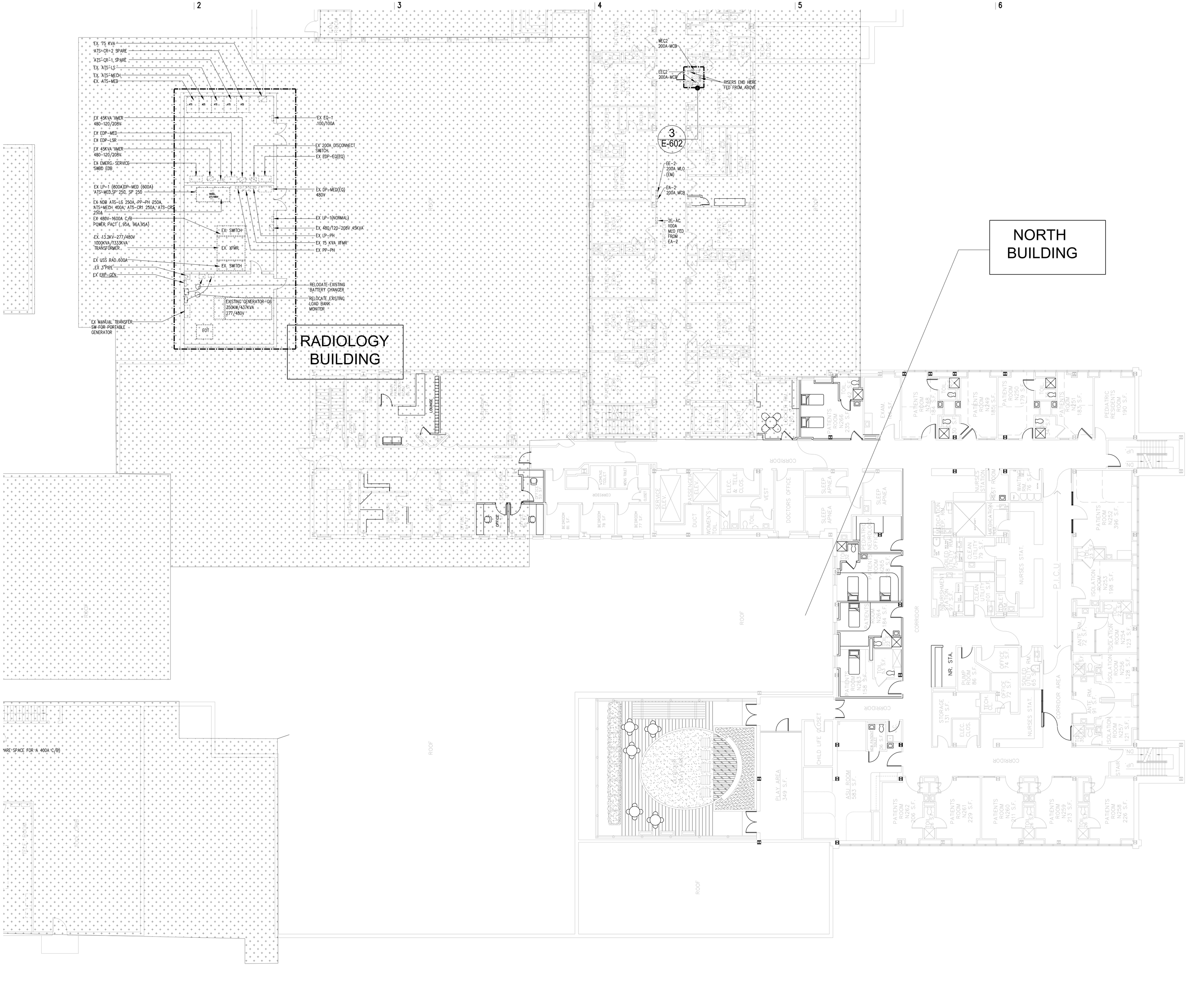
PROJECT
ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

DRAWING NUMBER
E222-MB

DRAWING NAME
SECOND FLOOR PLAN
EXISTING & DEMOILITION
PART 2 - MAIN BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE222
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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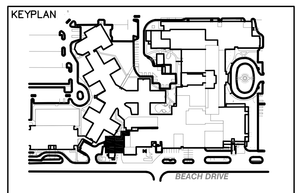


SEAL

REVISIONS	DATE	DESCRIPTION
4	12.04.17	CONSTRUCTION COST ESTIMATE
3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

OWNER

GOOD SAMARITAN
HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

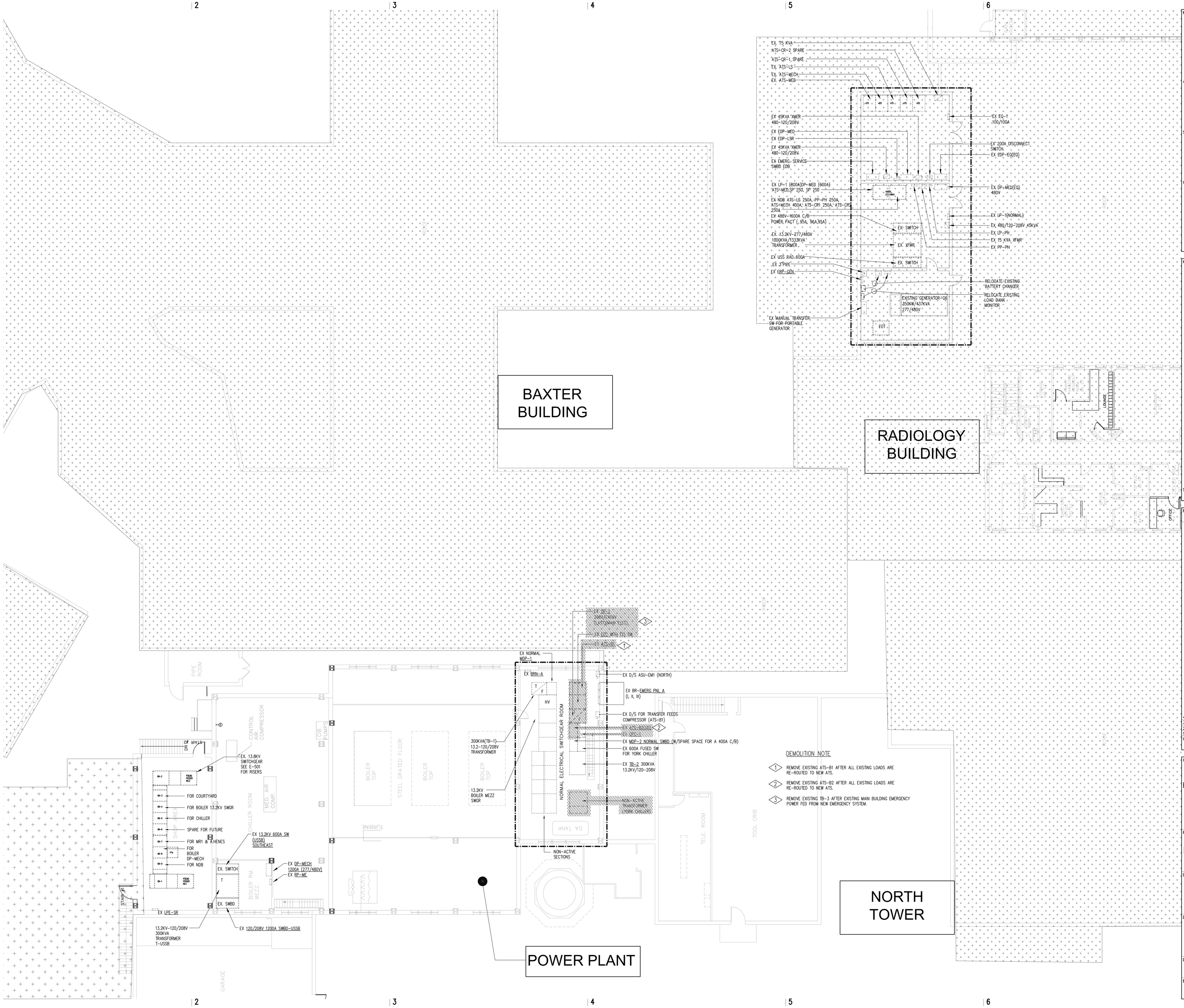
DRAWING NUMBER

E223-NB

DRAWING NAME

SECOND FLOOR PLAN EXISTING & DEMOILITION PART 3 – NORTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE223
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



DEMOLITION NOTE

1. REMOVE EXISTING ATS-B1 AFTER ALL EXISTING LOADS ARE RE-ROUTED TO NEW ATS.
2. REMOVE EXISTING ATS-B2 AFTER ALL EXISTING LOADS ARE RE-ROUTED TO NEW ATS.
3. REMOVE EXISTING TB-3 AFTER EXISTING MAIN BUILDING EMERGENCY POWER FED FROM NEW EMERGENCY SYSTEM.

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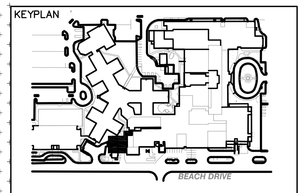

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1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

OWNER

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

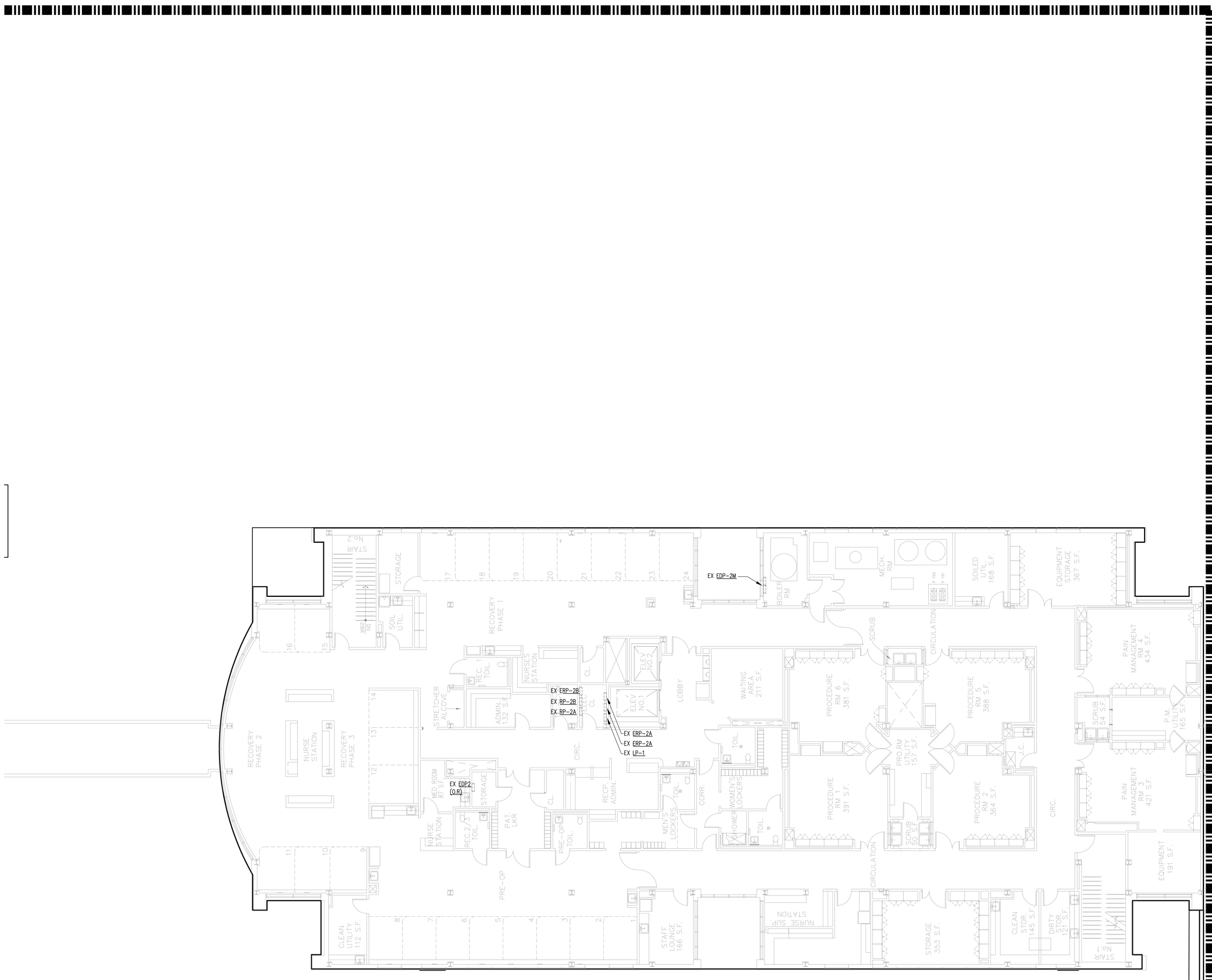
DRAWING NUMBER

E224-PP

DRAWING NAME

SECOND FLOOR PLAN EXISTING & DEMOILITION PART 4 – POWER PLANT

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE224
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



BAXTER BUILDING

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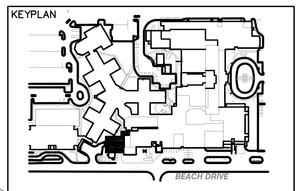

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

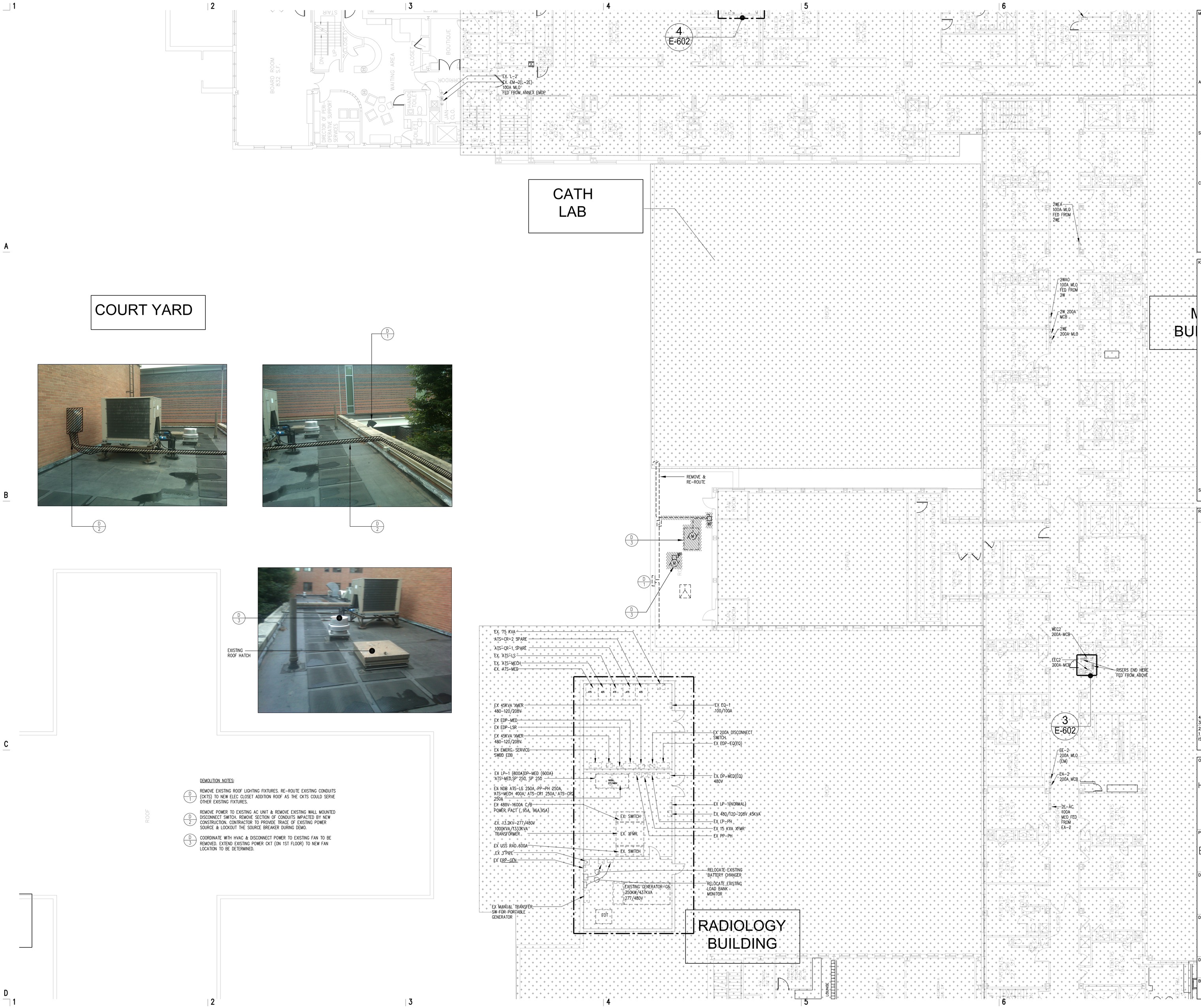
DRAWING NUMBER

E225-AH

DRAWING NAME

SECOND FLOOR PLAN EXISTING & DEMOILITION PART 5 – A.HENES

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE225
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



DEMOLITION NOTES:

D/1 REMOVE EXISTING ROOF LIGHTING FIXTURES. RE-ROUTE EXISTING CONDUITS (CKTS) TO NEW ELEC CLOSET ADDITION ROOF AS THE CKTS COULD SERVE OTHER EXISTING FIXTURES.

D/2 REMOVE POWER TO EXISTING AC UNIT & REMOVE EXISTING WALL MOUNTED DISCONNECT SWITCH. REMOVE SECTION OF CONDUITS IMPACTED BY NEW CONSTRUCTION. CONTRACTOR TO PROVIDE TRACE OF EXISTING POWER SOURCE & LOCKOUT THE SOURCE BREAKER DURING DEMO.

D/3 COORDINATE WITH HVAC & DISCONNECT POWER TO EXISTING FAN TO BE REMOVED. EXTEND EXISTING POWER CKT (ON 1ST FLOOR) TO NEW FAN LOCATION TO BE DETERMINED.

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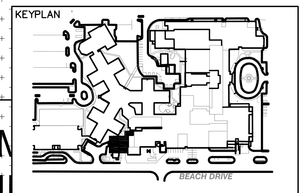

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

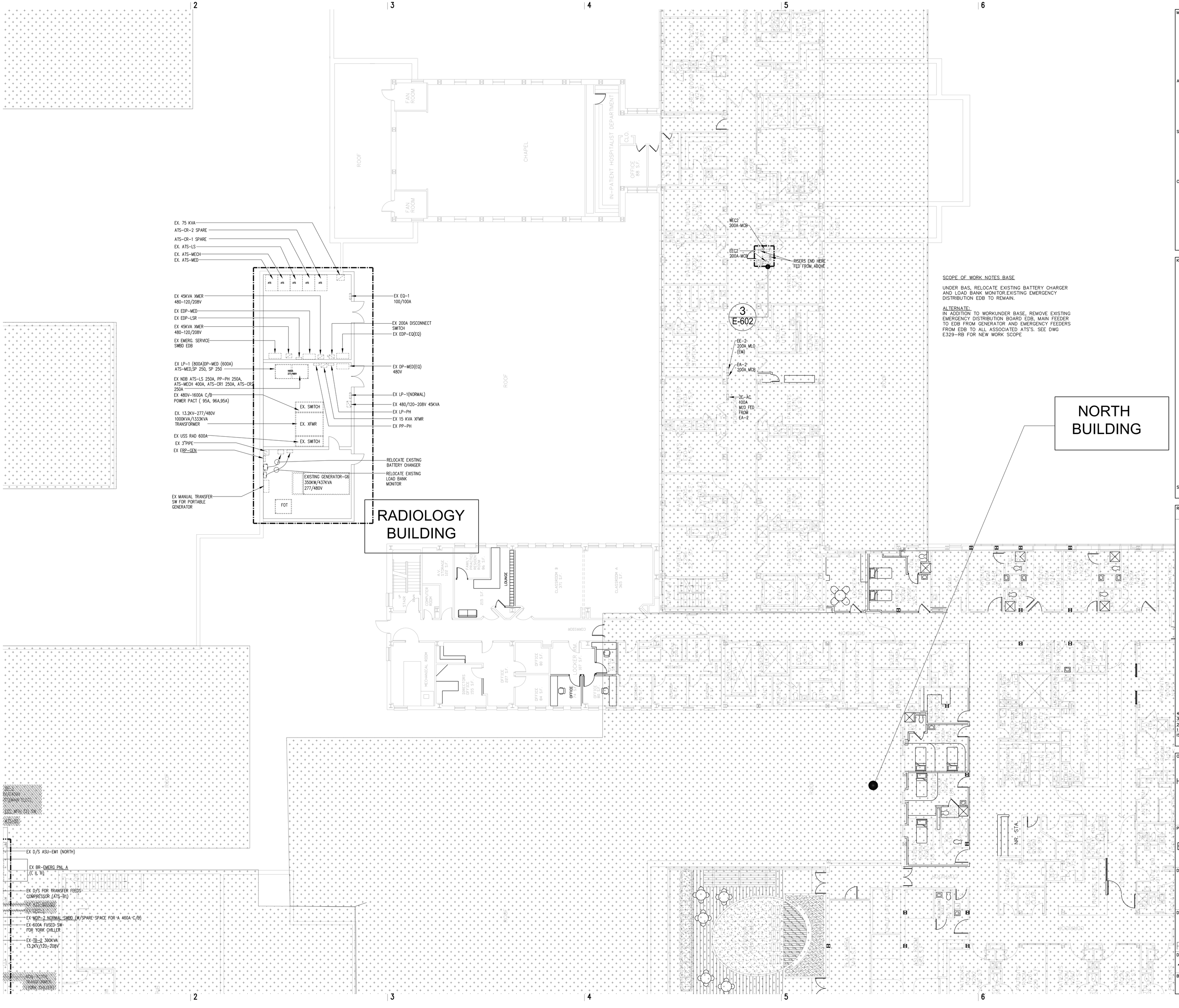
DRAWING NUMBER

E228-CY

DRAWING NAME

SECOND FLOOR PLAN
EXISTING & DEMOILITION
PART 8 – COURTYARD

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE228
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



SCOPE OF WORK NOTES BASE

UNDER BAS, RELOCATE EXISTING BATTERY CHARGER AND LOAD BANK MONITOR.EXISTING EMERGENCY DISTRIBUTION EDB TO REMAIN.

ALTERNATE:
IN ADDITION TO WORKUNDER BASE, REMOVE EXISTING EMERGENCY DISTRIBUTION BOARD EDB, MAIN FEEDER TO EDB FROM GENERATOR AND EMERGENCY FEEDERS FROM EDB TO ALL ASSOCIATED ATS'S. SEE DWG E329-RB FOR NEW WORK SCOPE

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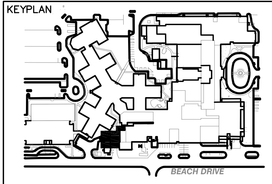

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1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

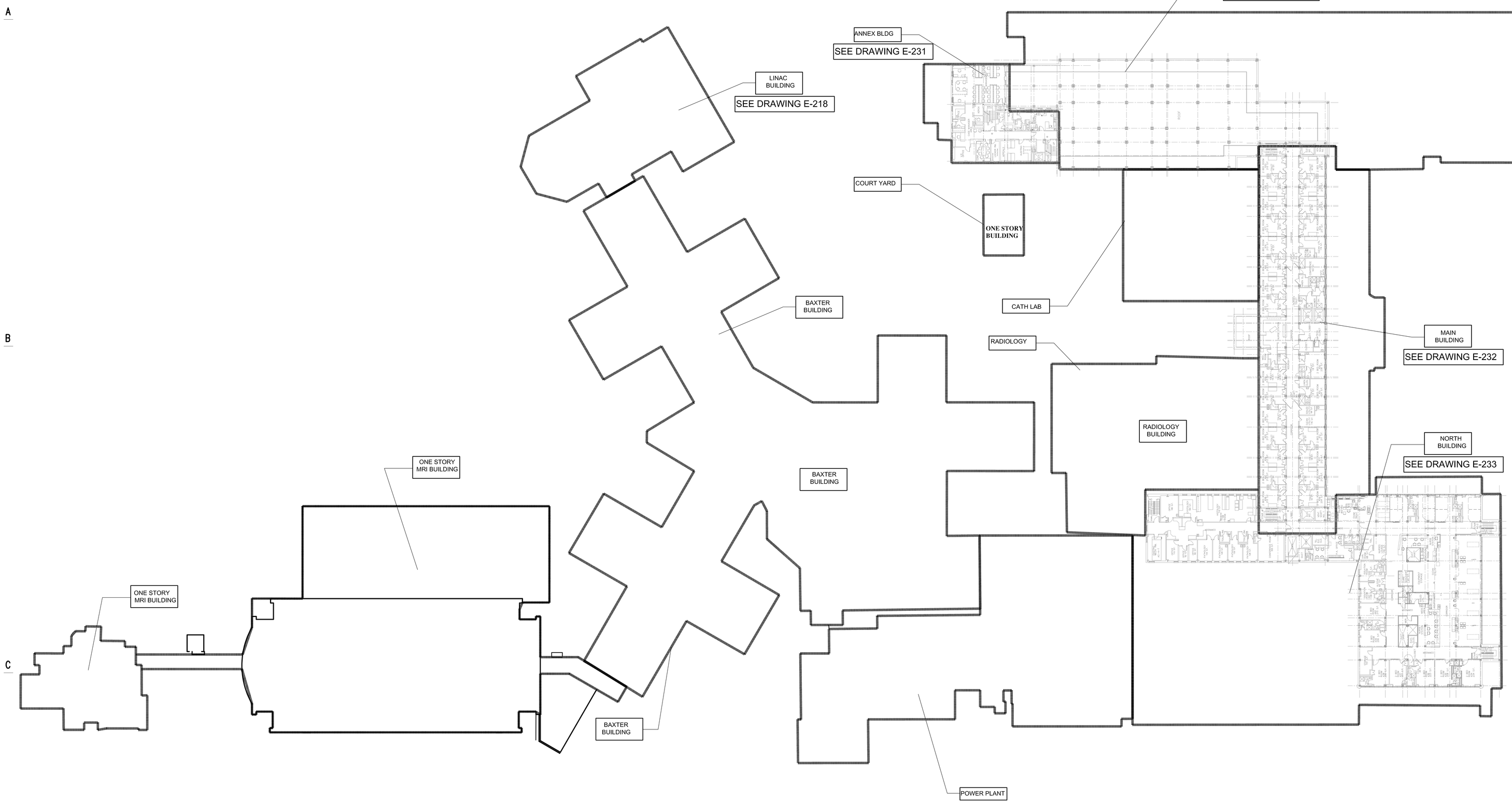
DRAWING NUMBER

E229-RB

DRAWING NAME

SECOND FLOOR PLAN EXISTING & DEMOILITION PART 9- CATH LAB AND RA

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE229
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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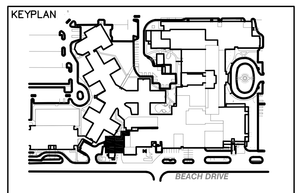

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OWNER

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WEST ISLIP, NY 11795

PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E230

DRAWING NAME

THIRD FLOOR OVERALL PLAN EXISTING & DEMOLITION

DRAWING SCALE	DRAWING FILE
1/16"=1'-0"	GSHE230
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

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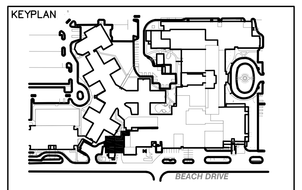

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PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

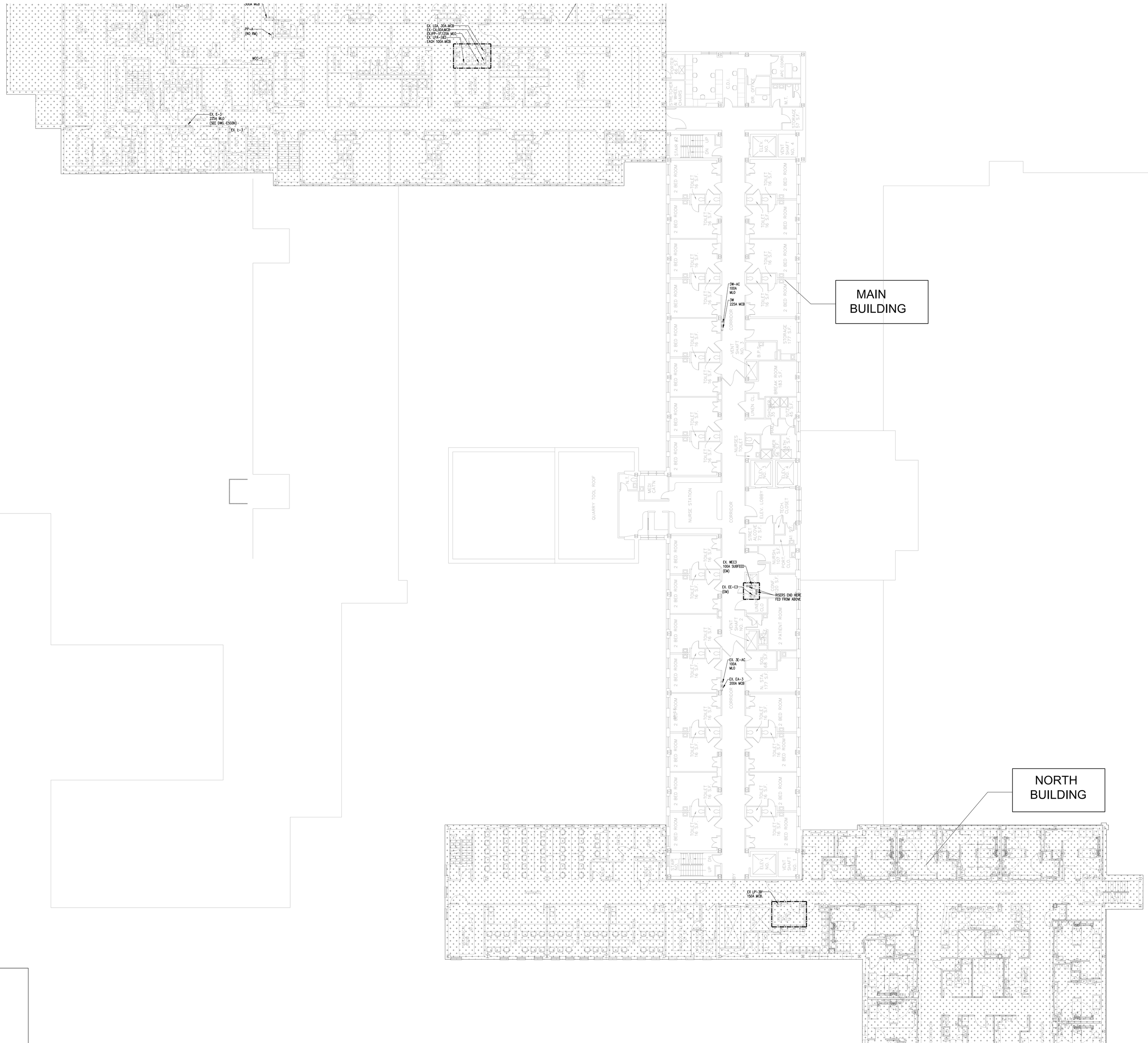
DRAWING NUMBER

E231-SB

DRAWING NAME

THIRD FLOOR PLAN
EXISTING & DEMOLITION
PART 1 - SOUTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE231
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



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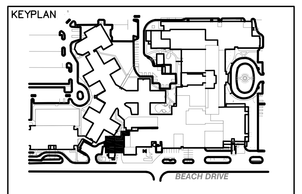

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ISSUE	DATE	DESCRIPTION

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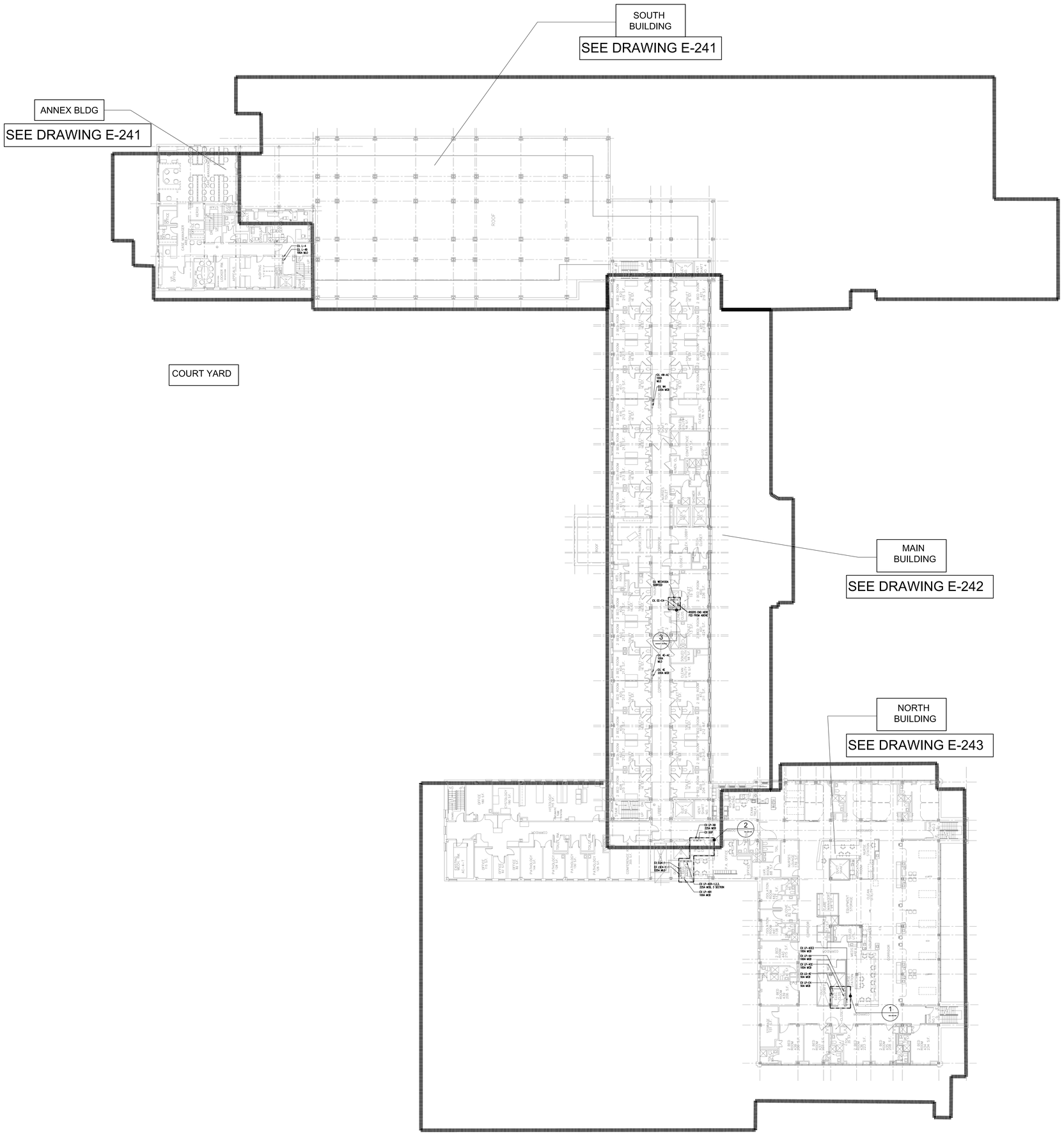
ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

DRAWING NUMBER
E232-MB

DRAWING NAME
THIRD FLOOR PLAN
EXISTING & DEMOLITION
PART 2 - MAIN BLDG

DRAWING SCALE	DRAWING FILE
3/32"=1'-0"	GSHE2312
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



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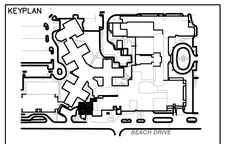

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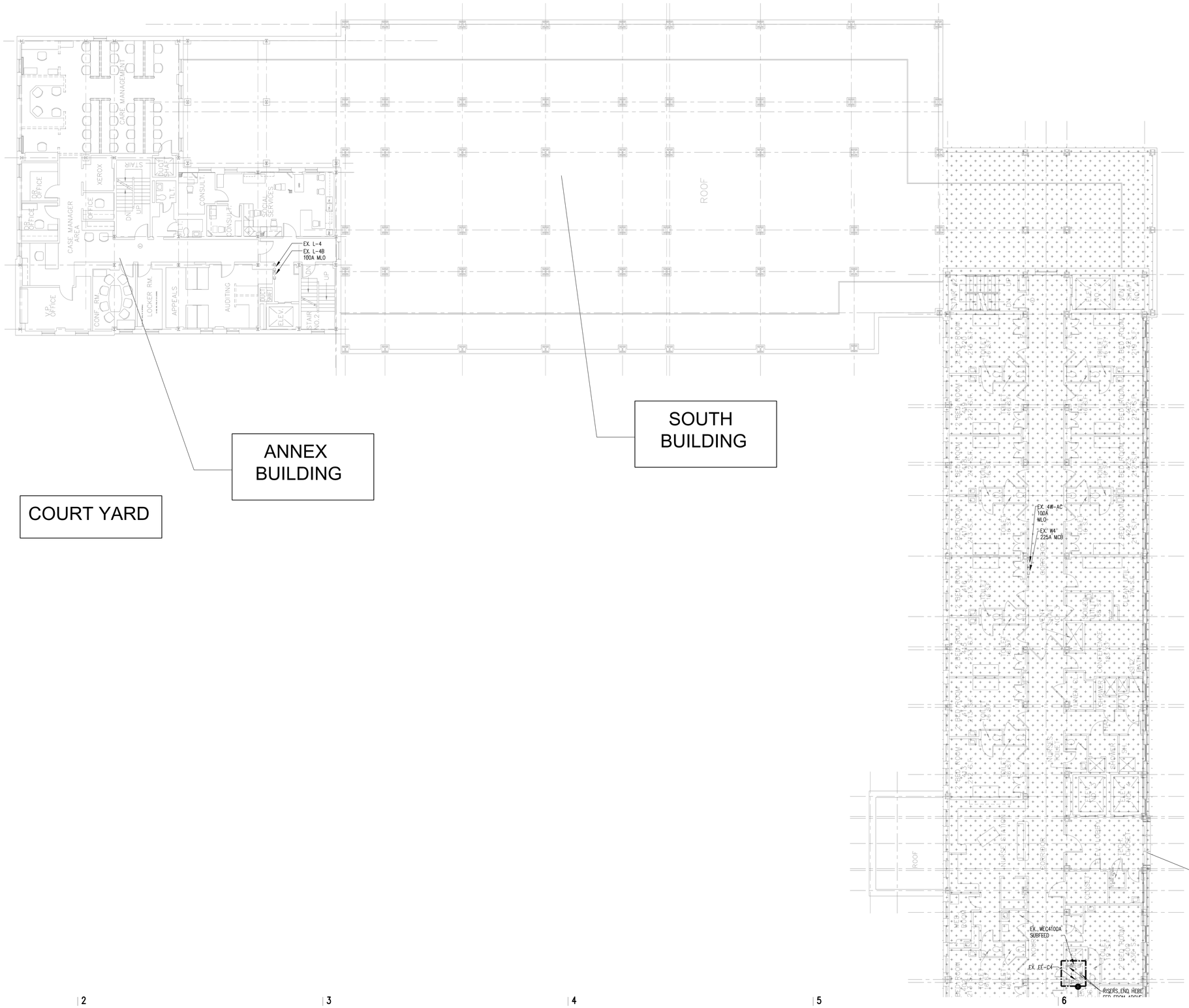
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E240

DRAWING NAME
FOURTH FLOOR OVERALL PLAN EXISTING & DEMOILITION

DRAWING SCALE	DRAWING FILE
1/16"=1'-0"	GSHE240
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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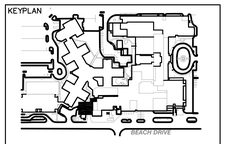
KEYPLAN


SEAL

REVISIONS DATE DESCRIPTION

ISSUE	DATE	DESCRIPTION
4	12.04.17	CONSTRUCTION COST ESTIMATE
3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT

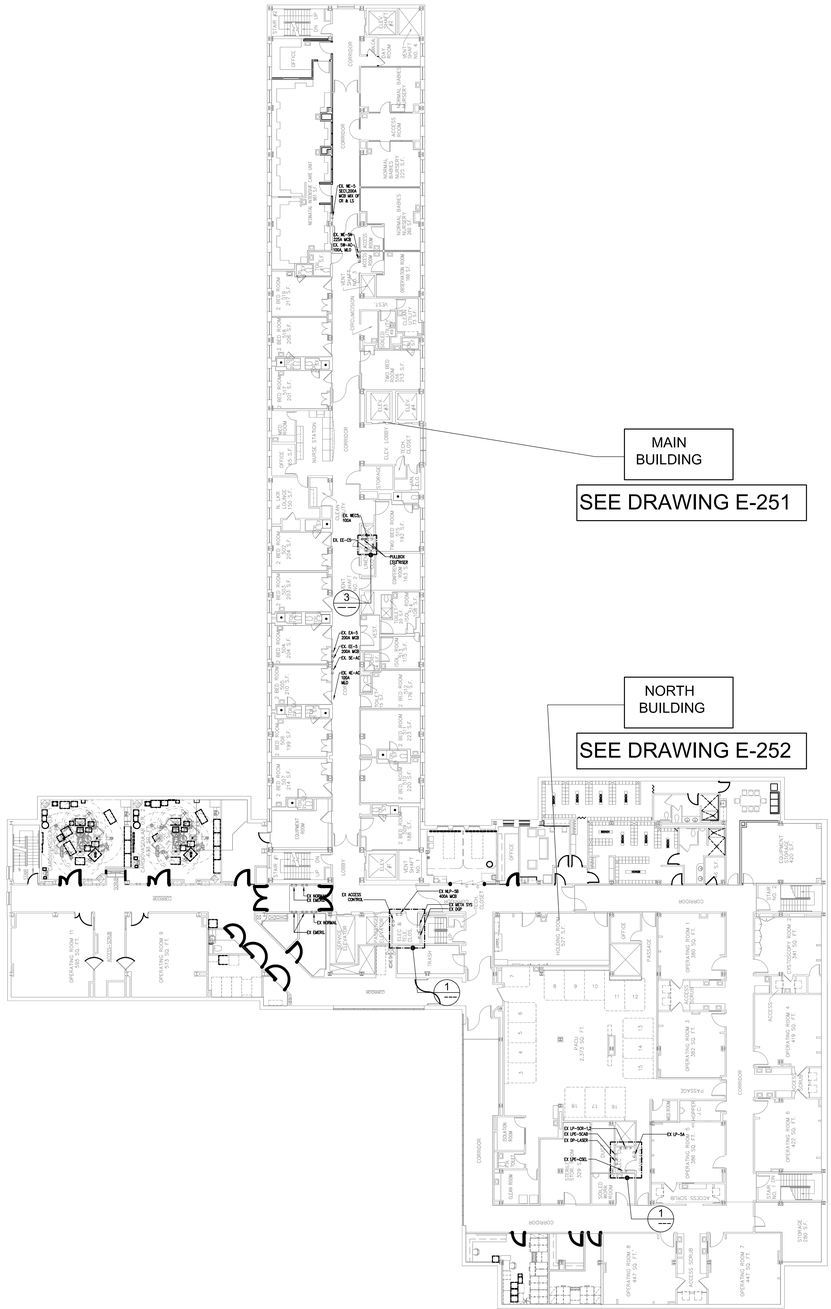
OWNER
GOOD SAMARITAN HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E241-SB

DRAWING NAME
FOURTH FLOOR PLAN EXISTING & DEMOILITION PART 1 – SOUTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE241
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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www.wspgroup.com/usa

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Healthcare Architecture
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MELVILLE, NY 11747
631 465 9700, FAX 631 465 9701

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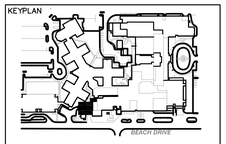

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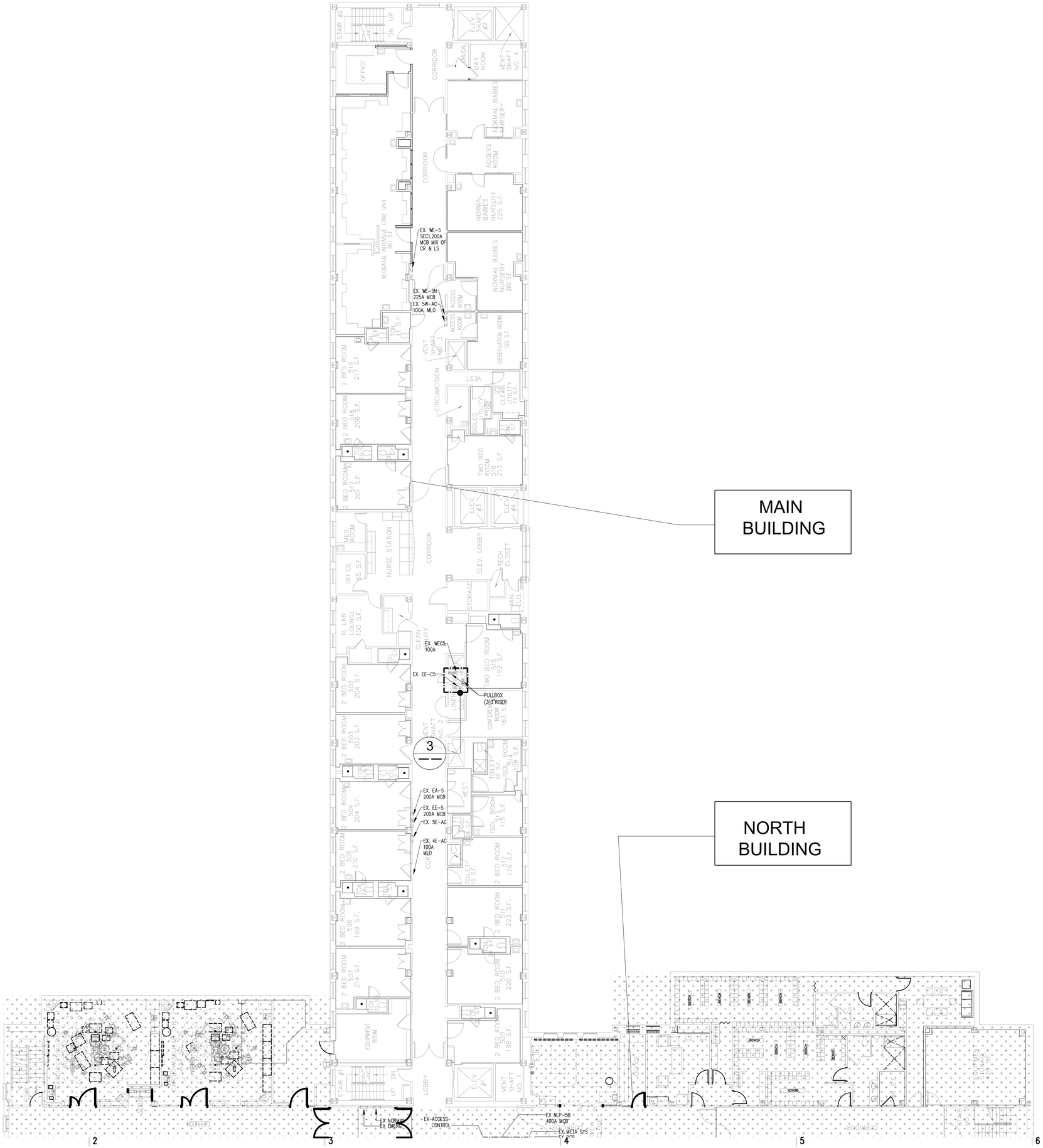
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E250

DRAWING NAME
FIFTH FLOOR OVERALL PLAN EXISTING & DEMOLITION

DRAWING SCALE	DRAWING FILE
1/16"=1'-0"	GSHE250
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



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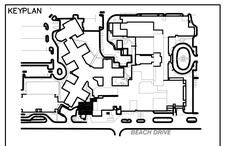

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

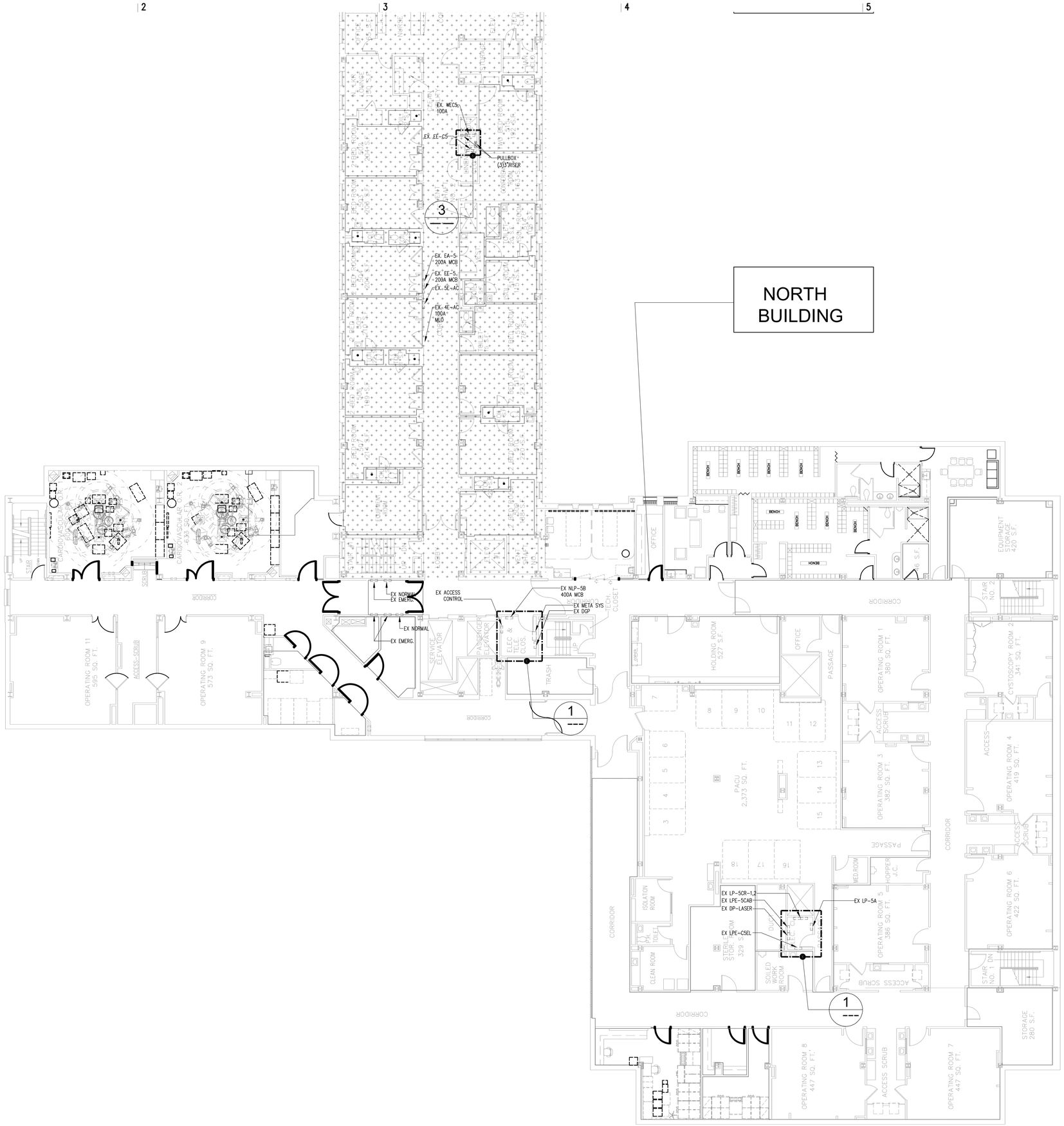
DRAWING NUMBER

E251-MB

DRAWING NAME

FIFTH FLOOR PLAN
EXISTING & DEMOLITION
PART 1 – MAIN BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE251
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



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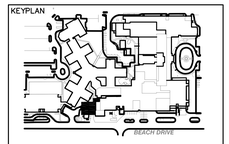

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HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

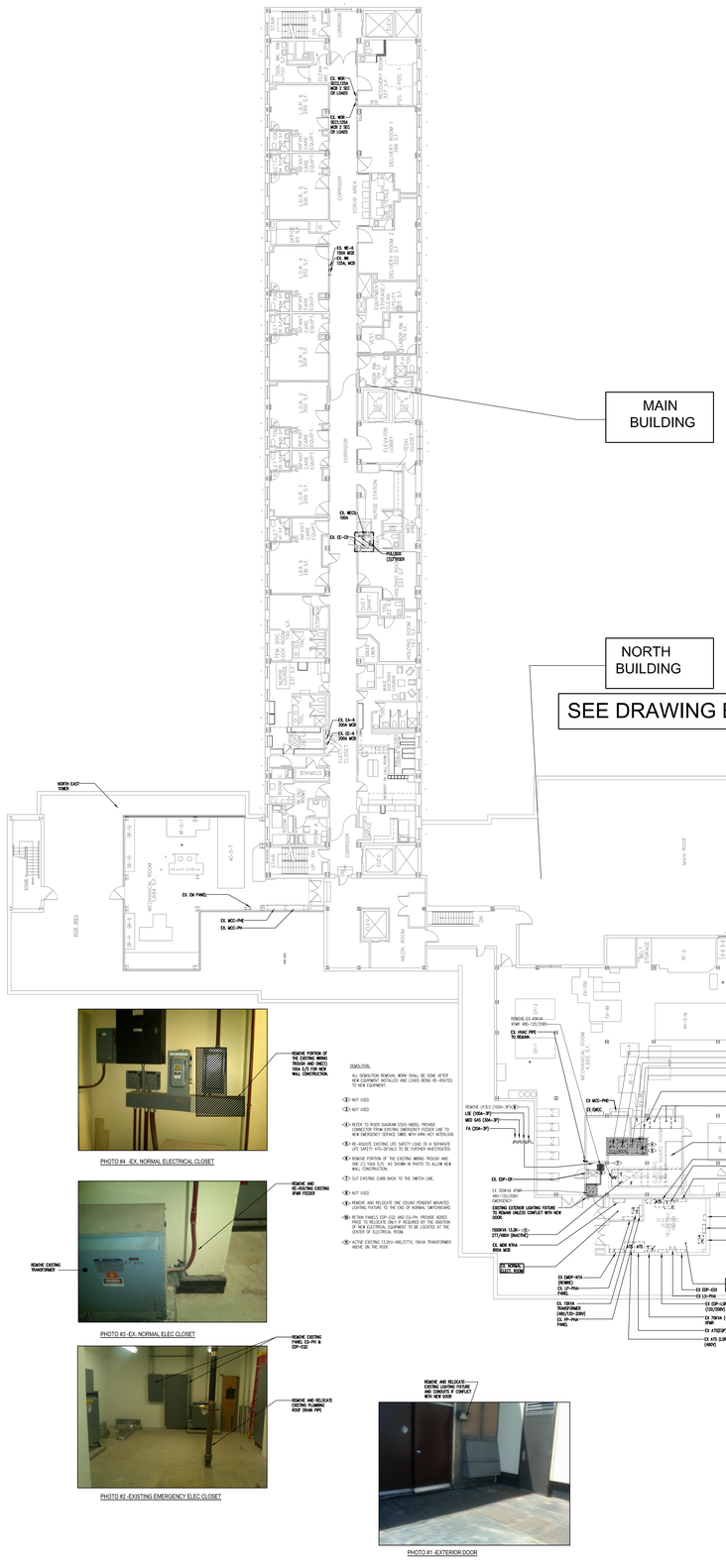
DRAWING NUMBER

E252-NB

DRAWING NAME

FIFTH FLOOR PLAN
EXISTING & DEMOLITION
PART 2 – NORTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE252
BINDING ORDER	FIRST ISSUE DATE
	5/14/14


MAIN BUILDING
NORTH BUILDING
SEE DRAWING E261
NORTH EAST TOWER
EX. EM PANEL
EX. MCC-PHE
EX. MCC-PH
ROOF AREA
MAIN ROOF
MECH. ROOM
EX. EE-EB 150A W/E
EX. EE-E 150A W/E
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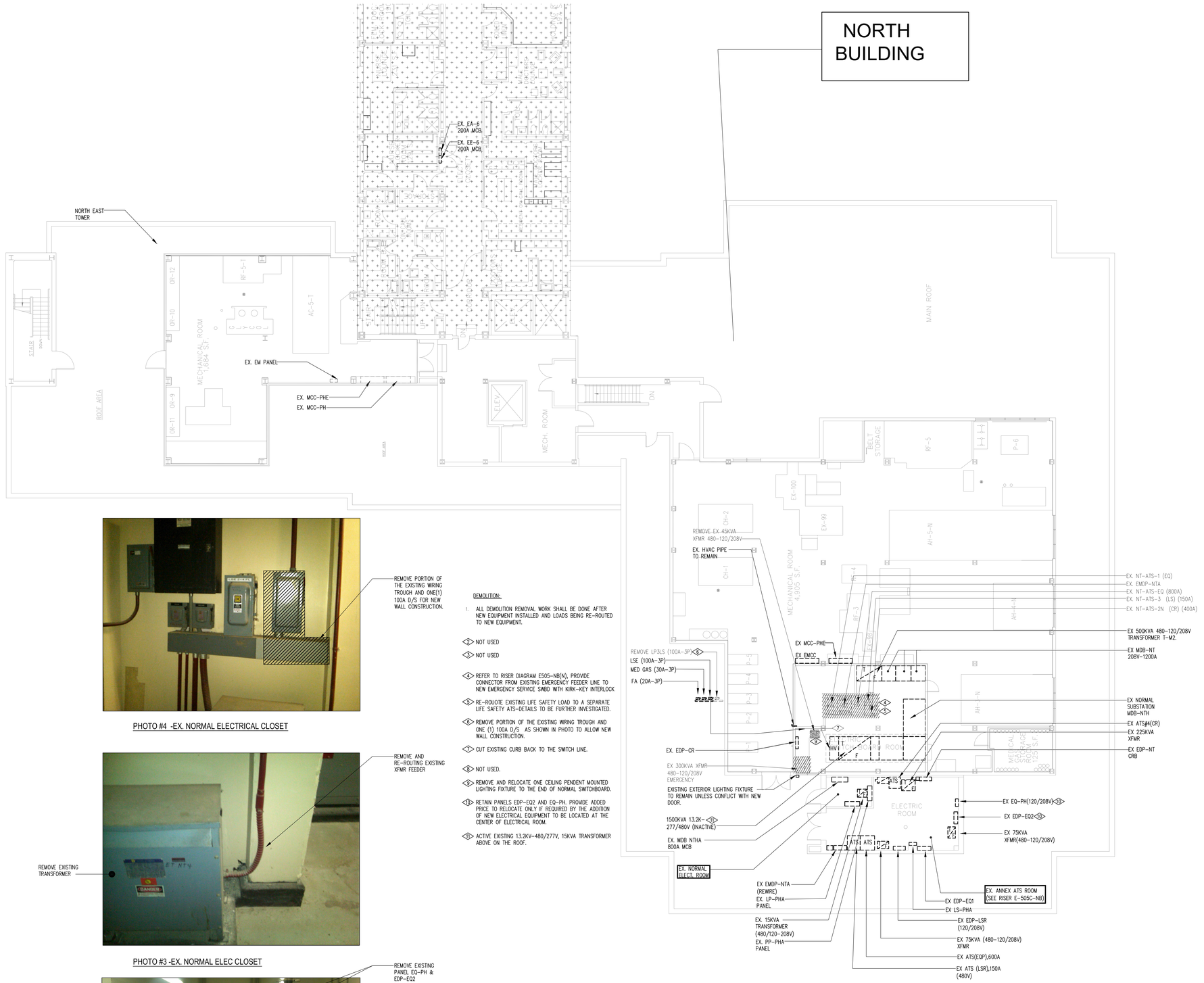
NORTH BUILDING



REMOVE PORTION OF THE EXISTING WIRING TROUGH AND ONE(1) 100A D/S FOR NEW WALL CONSTRUCTION.

PHOTO #4 -EX. NORMAL ELECTRICAL CLOSET

REMOVE EXISTING TRANSFORMER

REMOVE AND RE-ROUTING EXISTING XFMR FEEDER

PHOTO #3 -EX. NORMAL ELEC CLOSET

REMOVE EXISTING PANEL EQ-PH & EDP-EQ2

REMOVE AND RELOCATE EXISTING PLUMBING ROOF DRAIN PIPE

PHOTO #2 -EXISTING EMERGENCY ELEC CLOSET

DEMOLITION:

1. ALL DEMOLITION REMOVAL WORK SHALL BE DONE AFTER NEW EQUIPMENT INSTALLED AND LOADS BEING RE-ROUTED TO NEW EQUIPMENT.

<2> NOT USED

<3> NOT USED

<4> REFER TO RISER DIAGRAM E505-NB(N), PROVDE CONNECTOR FROM EXISTING EMERGENCY FEEDER LINE TO NEW EMERGENCY SERVICE SMBD WITH KIRK-KEY INTERLOCK

<5> RE-ROUOTE EXISTING LIFE SAFETY LOAD TO A SEPARATE LIFE SAFETY ATS-DETAILS TO BE FURTHER INVESTIGATED.

<6> REMOVE PORTION OF THE EXISTING WIRING TROUGH AND ONE (1) 100A D/S AS SHOWN IN PHOTO TO ALLOW NEW WALL CONSTRUCTION.

<7> CUT EXISTING CURB BACK TO THE SWITCH LINE.

<8> NOT USED.

<9> REMOVE AND RELOCATE ONE CEILING PENDENT MOUNTED LIGHTING FIXTURE TO THE END OF NORMAL SWITCHBOARD.

<10> RETAIN PANELS EDP-EQ2 AND EQ-PH. PROVIDE ADDED PRICE TO RELOCATE ONLY IF REQUIRED BY THE ADDITION OF NEW ELECTRICAL EQUIPMENT TO BE LOCATED AT THE CENTER OF ELECTRICAL ROOM.

<1> ACTIVE EXISTING 13.2KV-480/277V, 15KVA TRANSFORMER ABOVE ON THE ROOF.

REMOVE AND RELOCATE EXISTING LIGHTING FIXTURE AND CONDUITS IF CONFLICT WITH NEW DOOR

MEP ENGINEER

WSP

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www.wspgroup.com/usa

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Healthcare Architecture
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STRUCTURAL ENGINEER

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CIVIL ENGINEER

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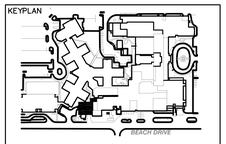
KEYPLAN



SEAL

REVISIONS	DATE	DESCRIPTION

ISSUE	DATE	DESCRIPTION
4	12.04.17	CONSTRUCTION COST ESTIMATE
3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT

OWNER

GOOD SAMARITAN HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E261-NB

DRAWING NAME

SIXTH FLOOR PLAN EXISTING & DEMOLITION PART 1 – NORTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE261
BINDING ORDER	FIRST ISSUE DATE
	04/48/14

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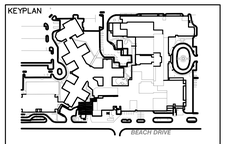

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OWNER

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1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

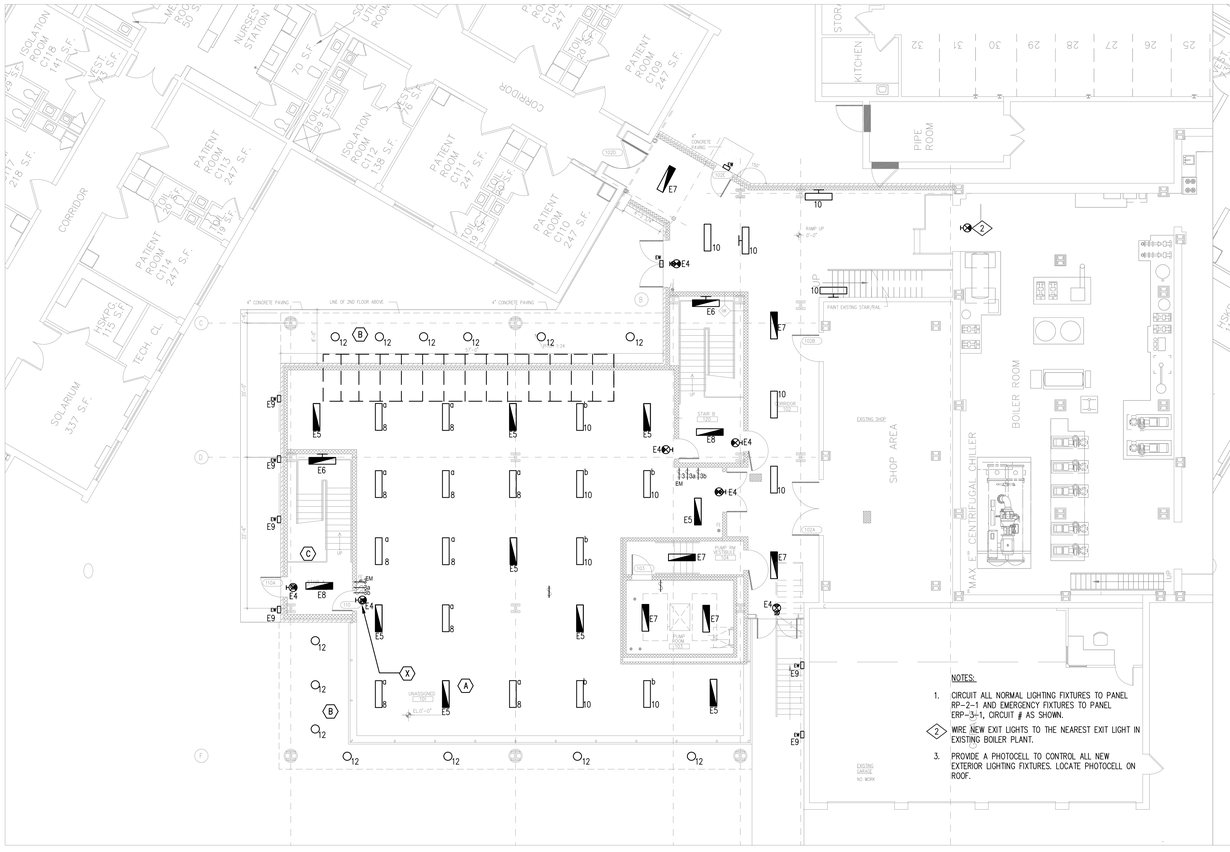
DRAWING NUMBER

E270-MB

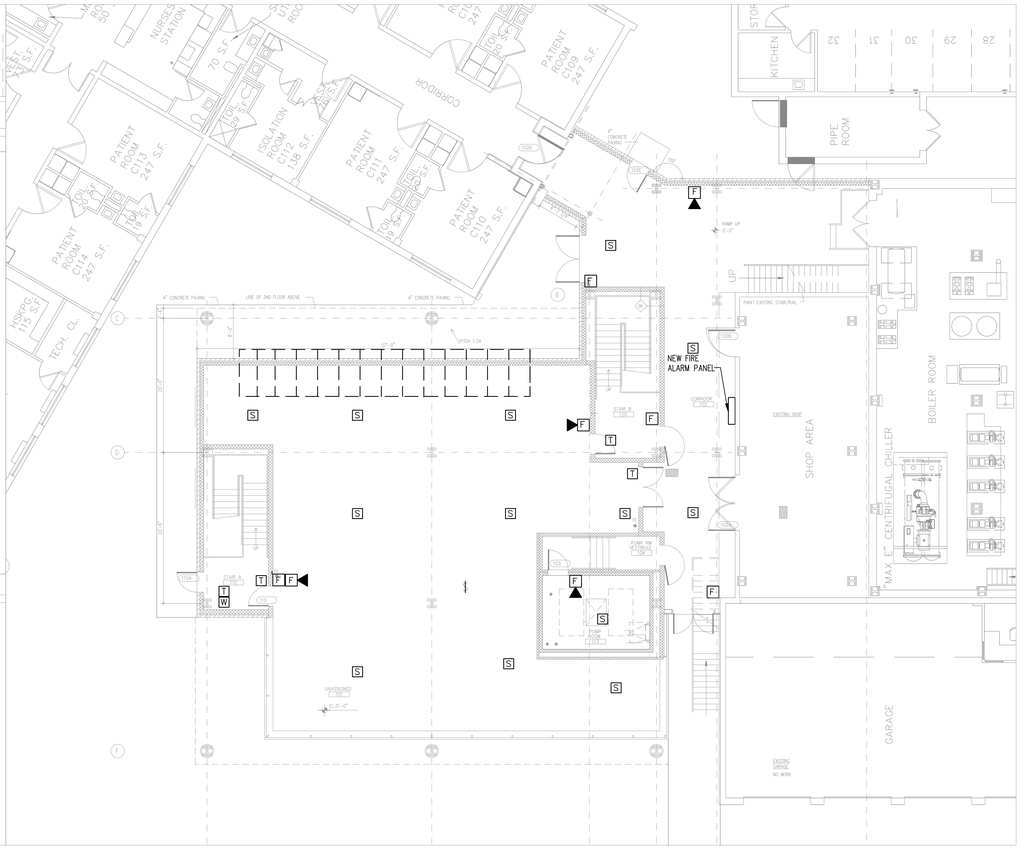
DRAWING NAME

SEVENTH FLOOR
OVERALL PLAN EXISTING & DEMOLITION

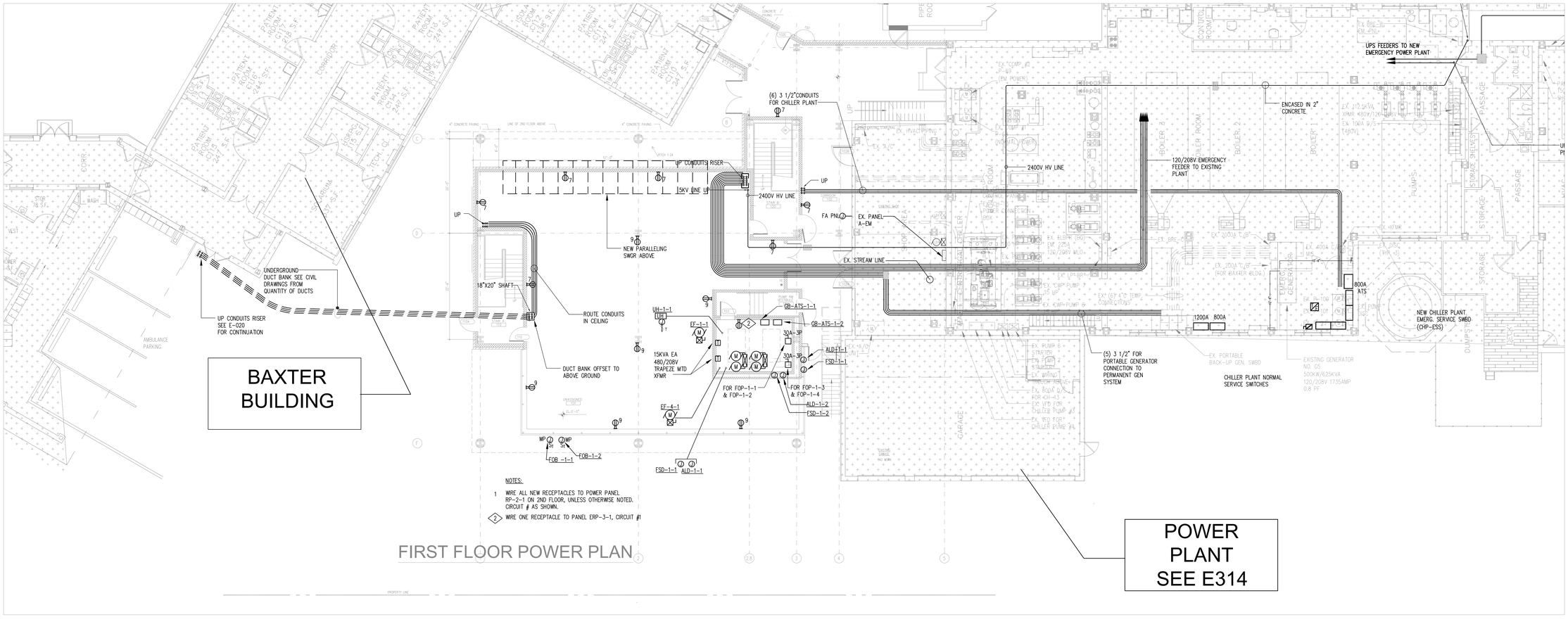
DRAWING SCALE	DRAWING FILE
1/16"=1'-0"	GSHE270MB
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



FIRST FLOOR LIGHTING PLAN



FIRST FLOOR FIRE ALARM PLAN



FIRST FLOOR POWER PLAN

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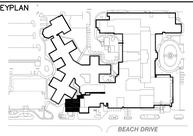

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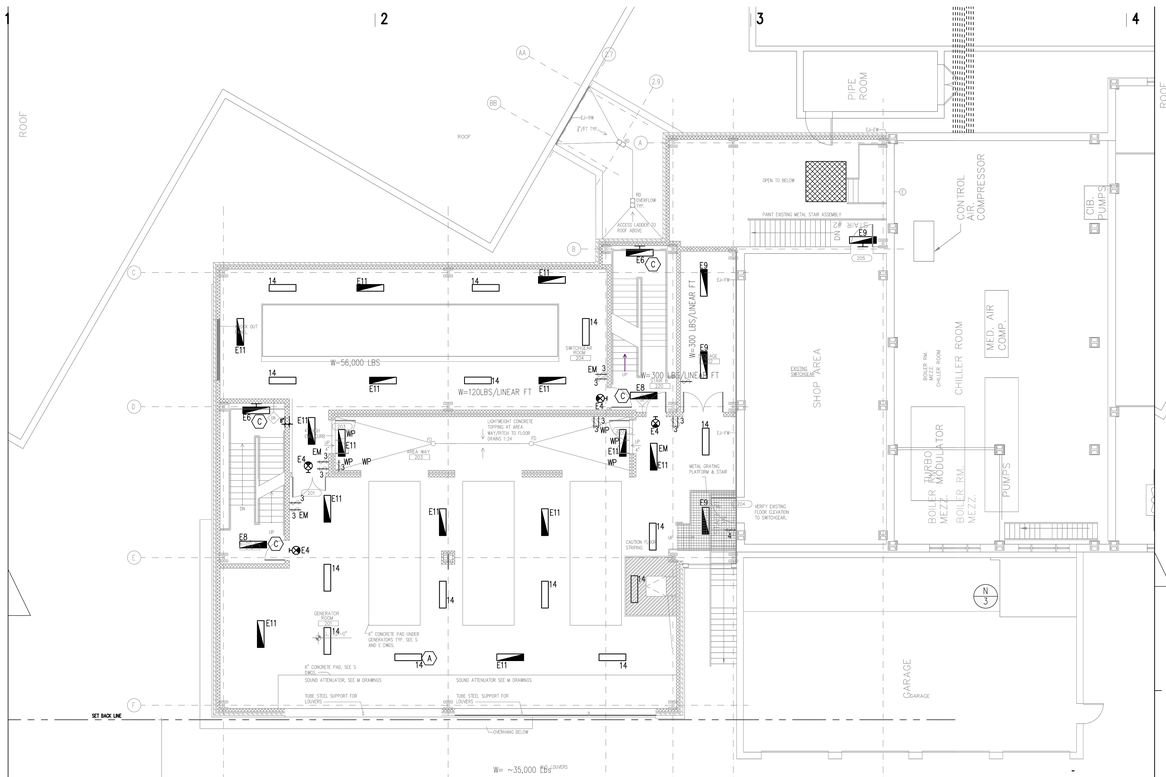
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E301-GB

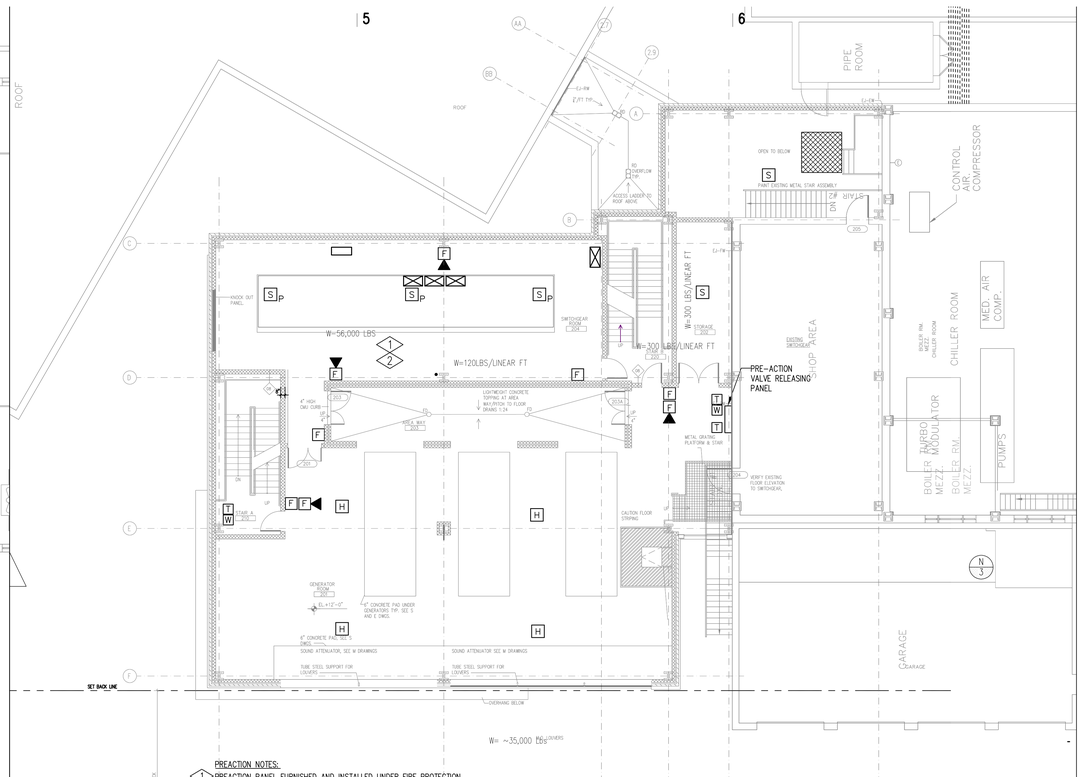
DRAWING NAME
FIRST FLOOR PLAN
NEW WORK
EMERGENCY GENERATOR

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE311
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



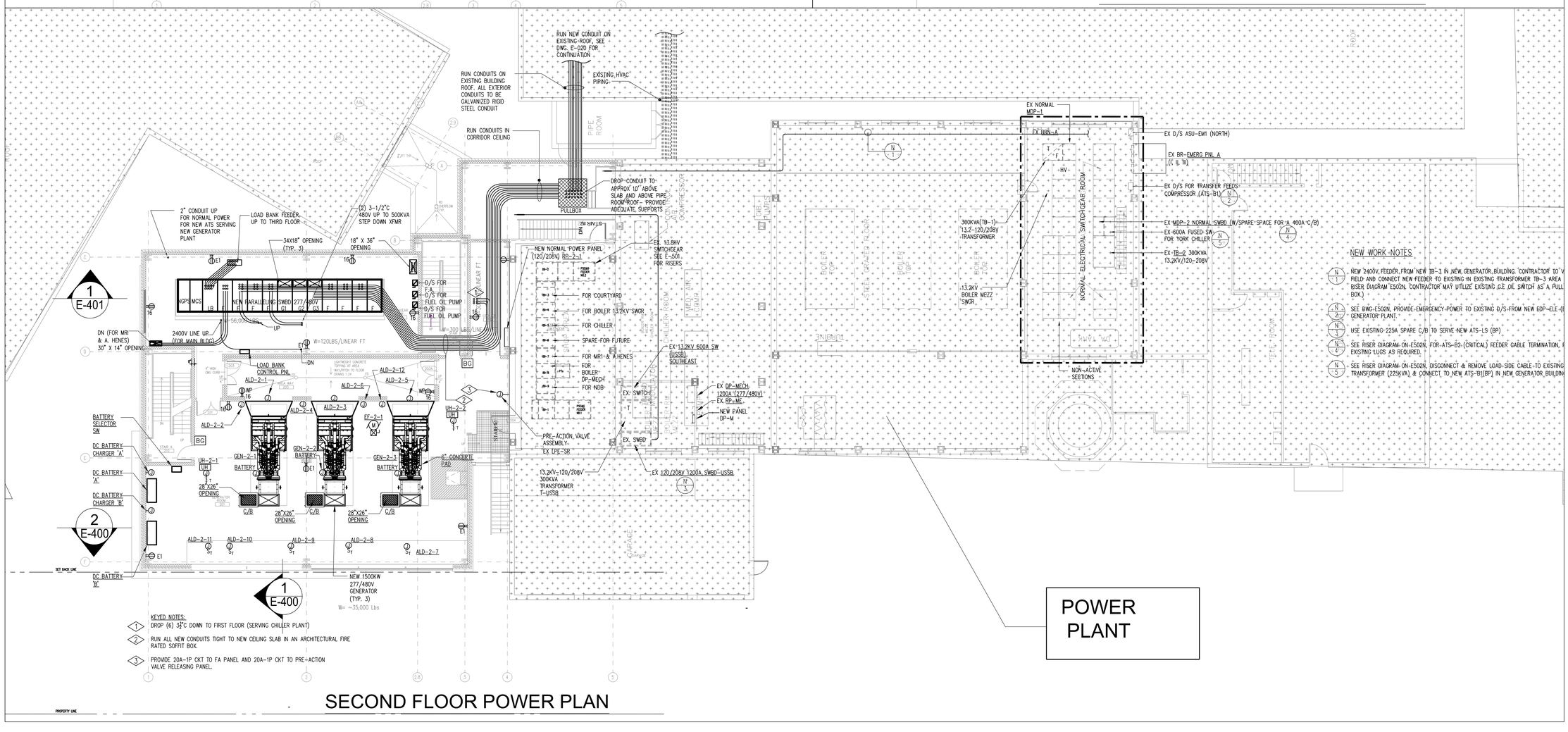
LIGHTING NOTES:
1. CIRCUIT ALL NORMAL LIGHTING FIXTURES TO PANEL RP-2-1 AND EMERGENCY FIXTURES TO PANEL ERP-3-1, CIRCUIT # AS SHOWN.

SECOND FLOOR LIGHTING PLAN



PREACTION NOTES:
1. PREACTION PANEL FURNISHED AND INSTALLED UNDER FIRE PROTECTION DWGS FP-334.
2. ALL PREACTION SMOKE DETECTOR ARE FURNISHED UNDER FIRE PROTECTION SECTION 21 13 18 AND INSTALLED UNDER DIVISION 26. REFER TO FIRE PROTECTION DRAWING FP-324 FOR DEVICE LAYOUT.

SECOND FLOOR FIRE ALARM PLAN



KEYED NOTES:
1. DROP (6) 3"C DOWN TO FIRST FLOOR (SERVING CHILLER PLANT)
2. RUN ALL NEW CONDUITS TIGHT TO NEW CEILING SLAB IN AN ARCHITECTURAL FIRE RATED SOFFIT BOX.
3. PROVIDE 20A-1P CKT TO FA PANEL AND 20A-1P CKT TO PRE-ACTION VALVE RELEASING PANEL.

SECOND FLOOR POWER PLAN

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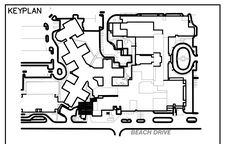

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2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

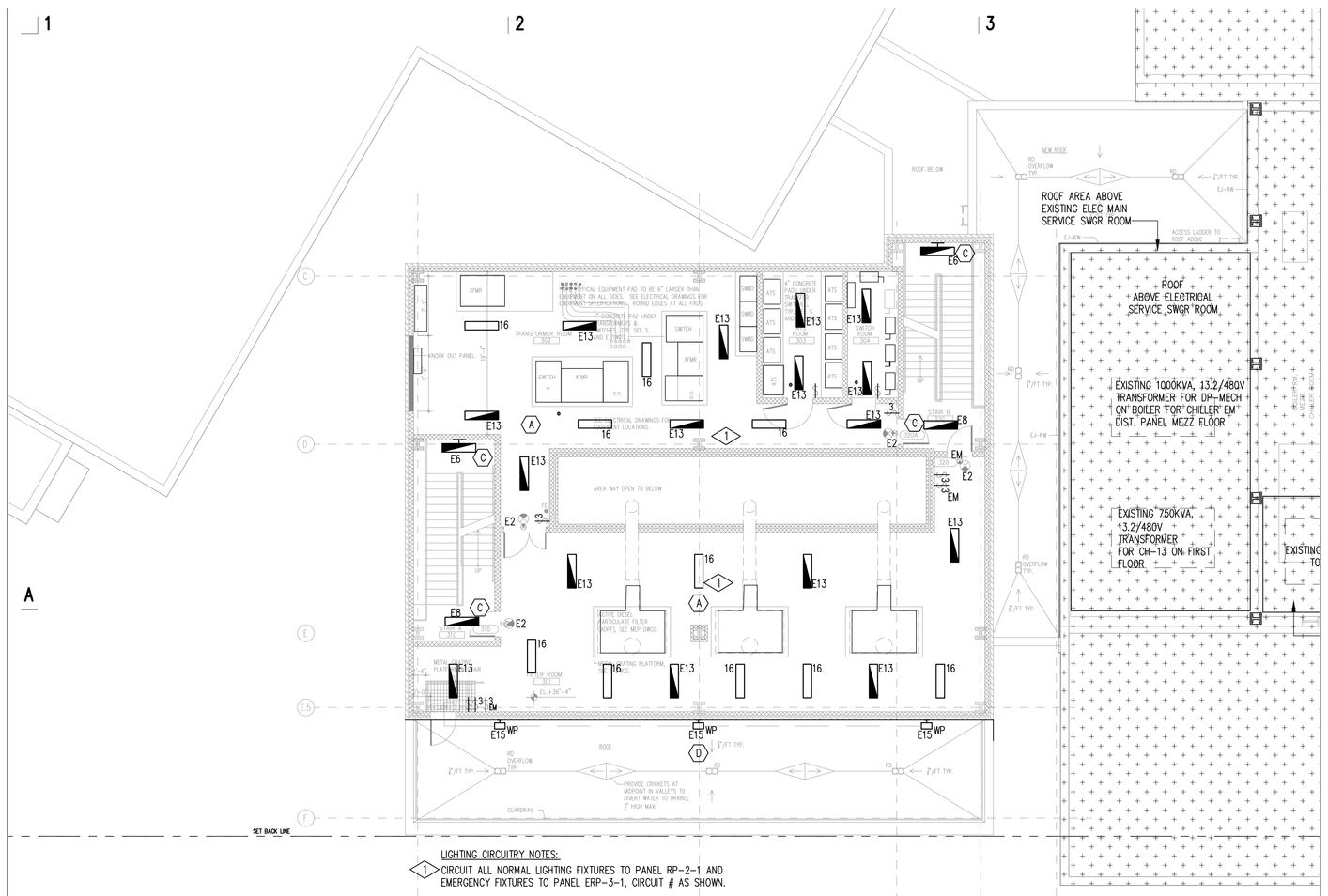
OWNER
GOOD SAMARITAN HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E302-GB

DRAWING NAME
SECOND FLOOR PLAN NEW WORK EMERGENCY GENERATOR

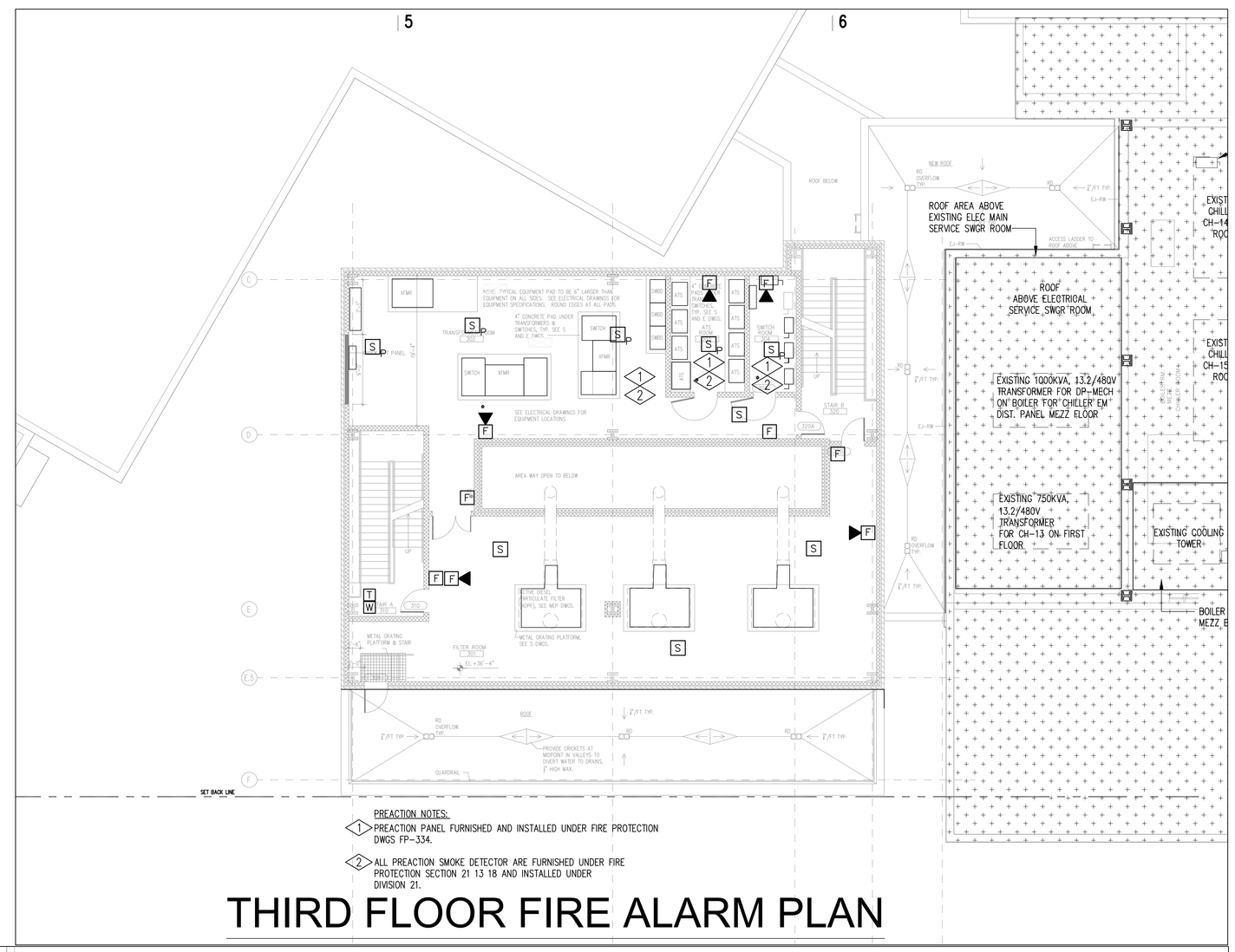
DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE311
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



LIGHTING CIRCUITRY NOTES:

1. CIRCUIT ALL NORMAL LIGHTING FIXTURES TO PANEL RP-2-1 AND EMERGENCY FIXTURES TO PANEL ERP-3-1, CIRCUIT # AS SHOWN.

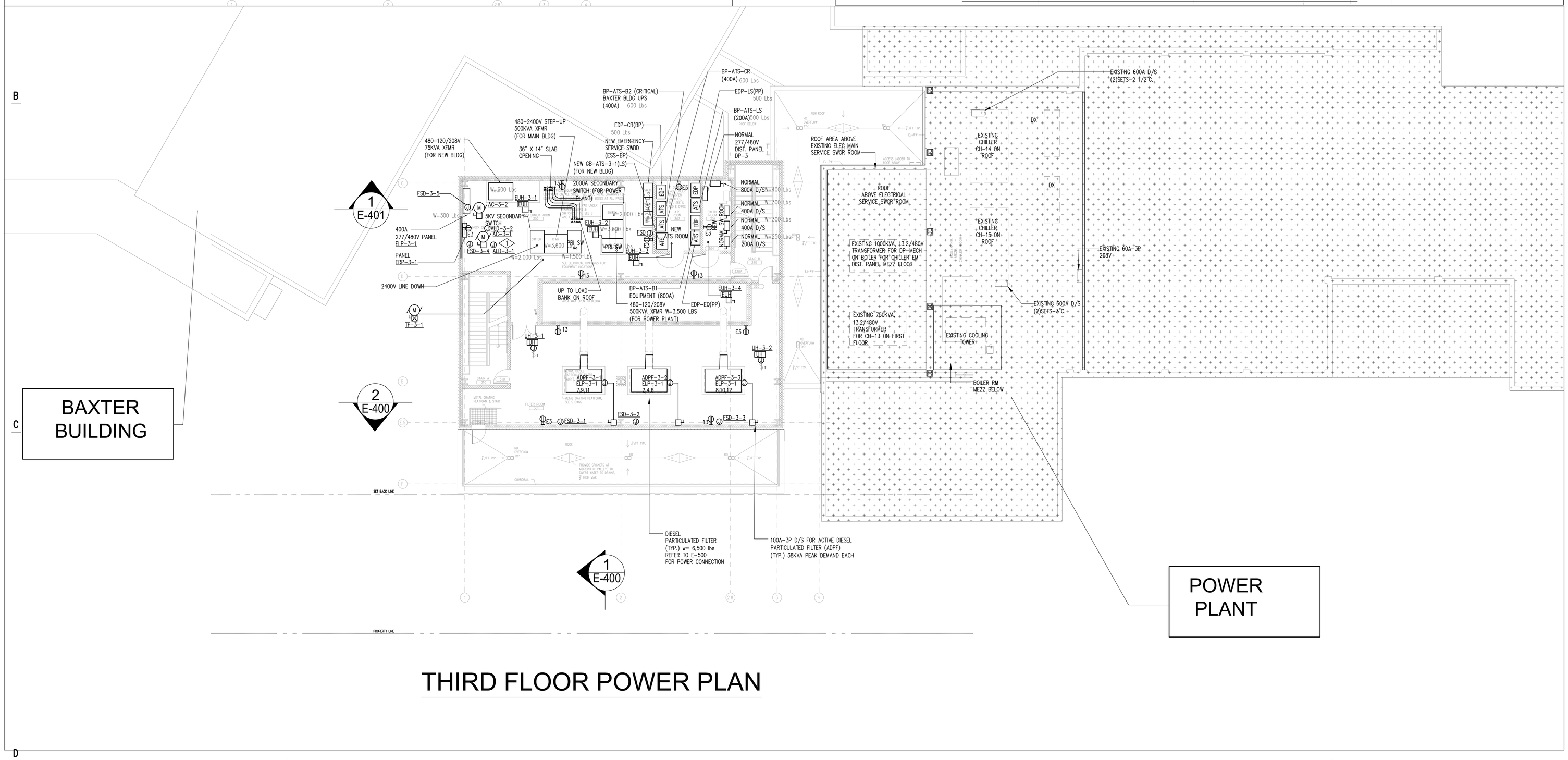
THIRD FLOOR LIGHTING PLAN



PREACTION NOTES:

1. PREACTION PANEL FURNISHED AND INSTALLED UNDER FIRE PROTECTION DWGS FP-334.
2. ALL PREACTION SMOKE DETECTOR ARE FURNISHED UNDER FIRE PROTECTION SECTION 21 13 18 AND INSTALLED UNDER DIVISION 21.

THIRD FLOOR FIRE ALARM PLAN



THIRD FLOOR POWER PLAN

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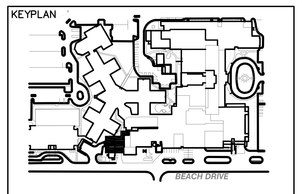

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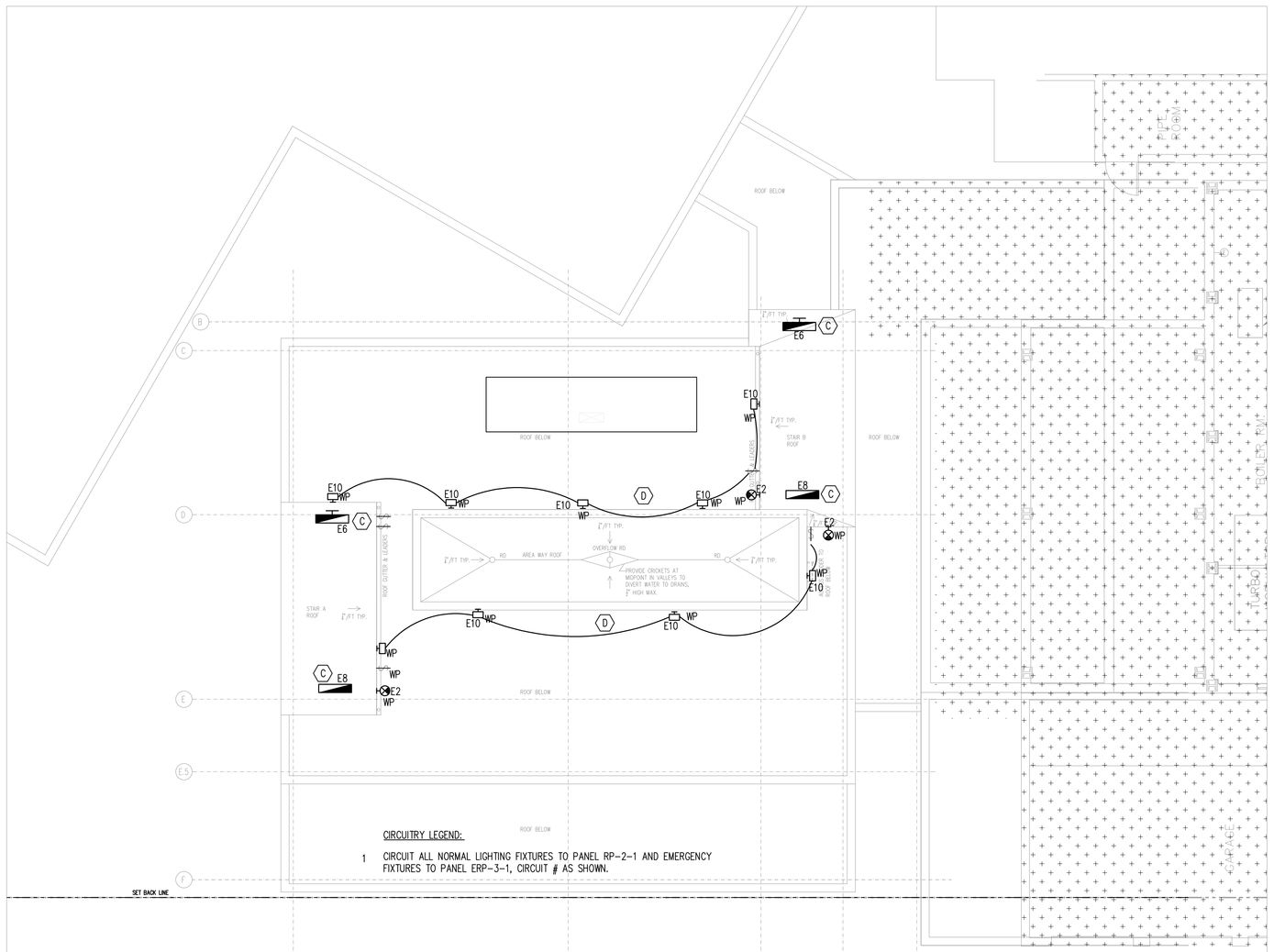
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

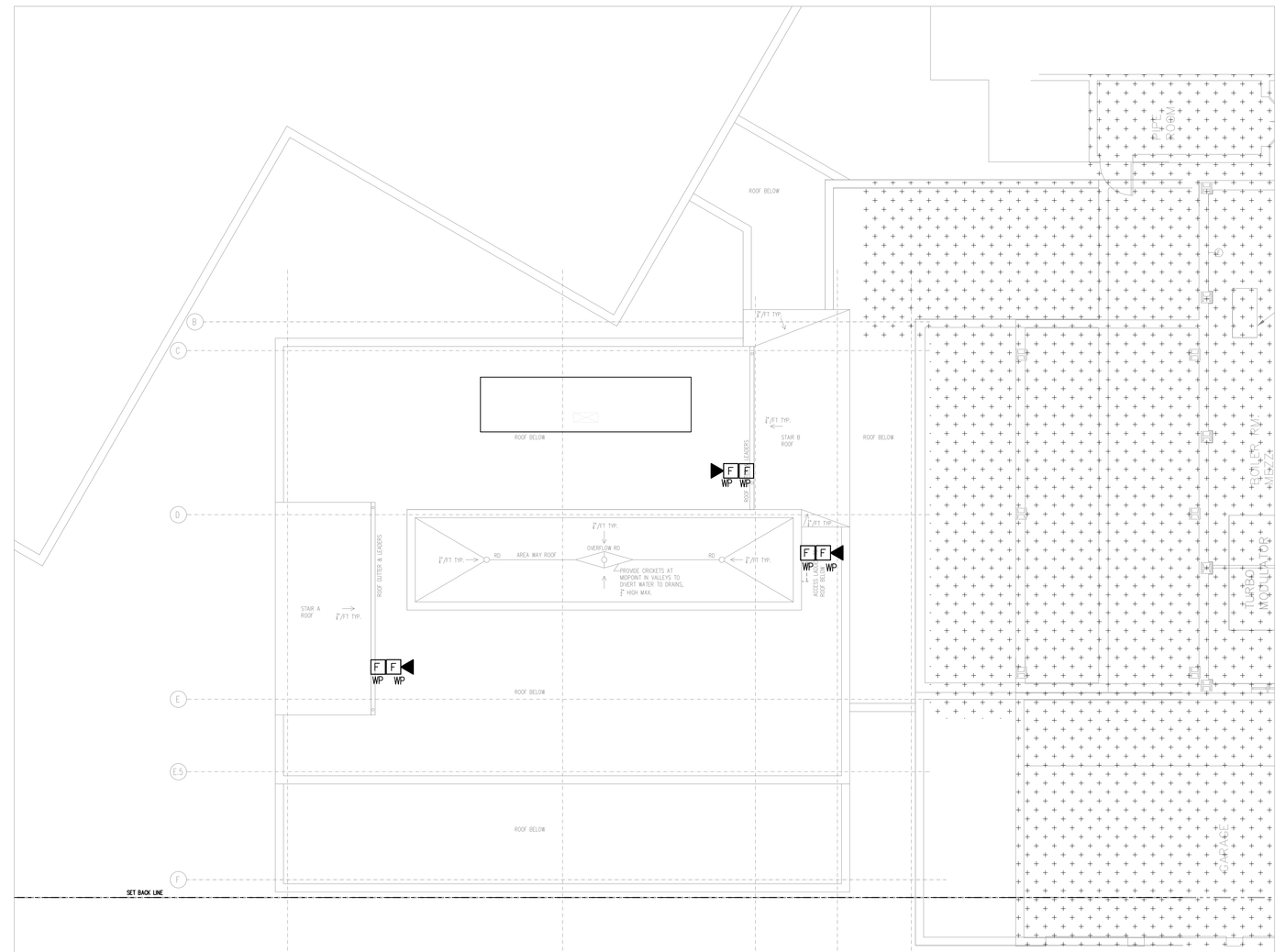
DRAWING NUMBER
E303-GB

DRAWING NAME
THIRD FLOOR PLAN NEW WORK EMERGENCY GENERATOR

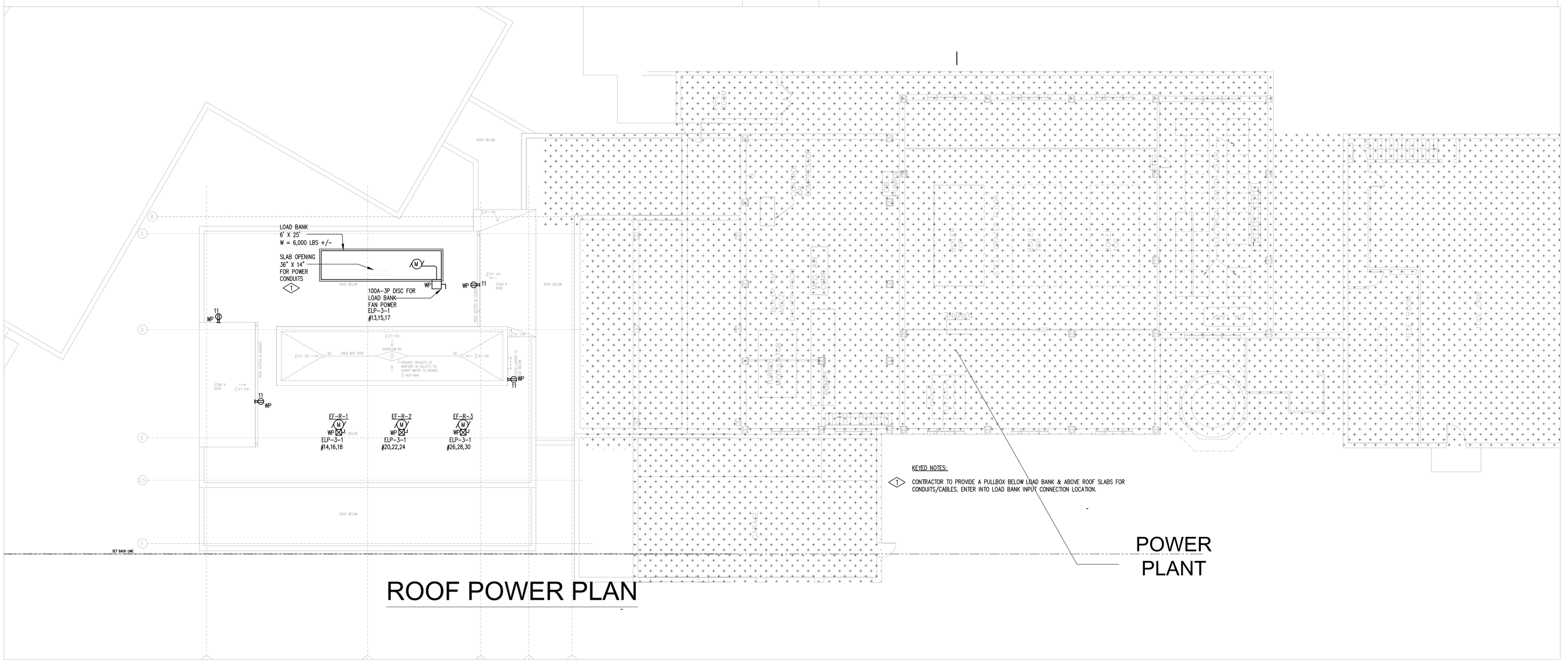
DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE311
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



ROOF LIGHTING PLAN



ROOF FIRE ALARM PLAN



ROOF POWER PLAN

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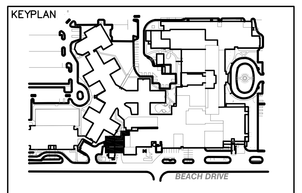

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OWNER

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HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

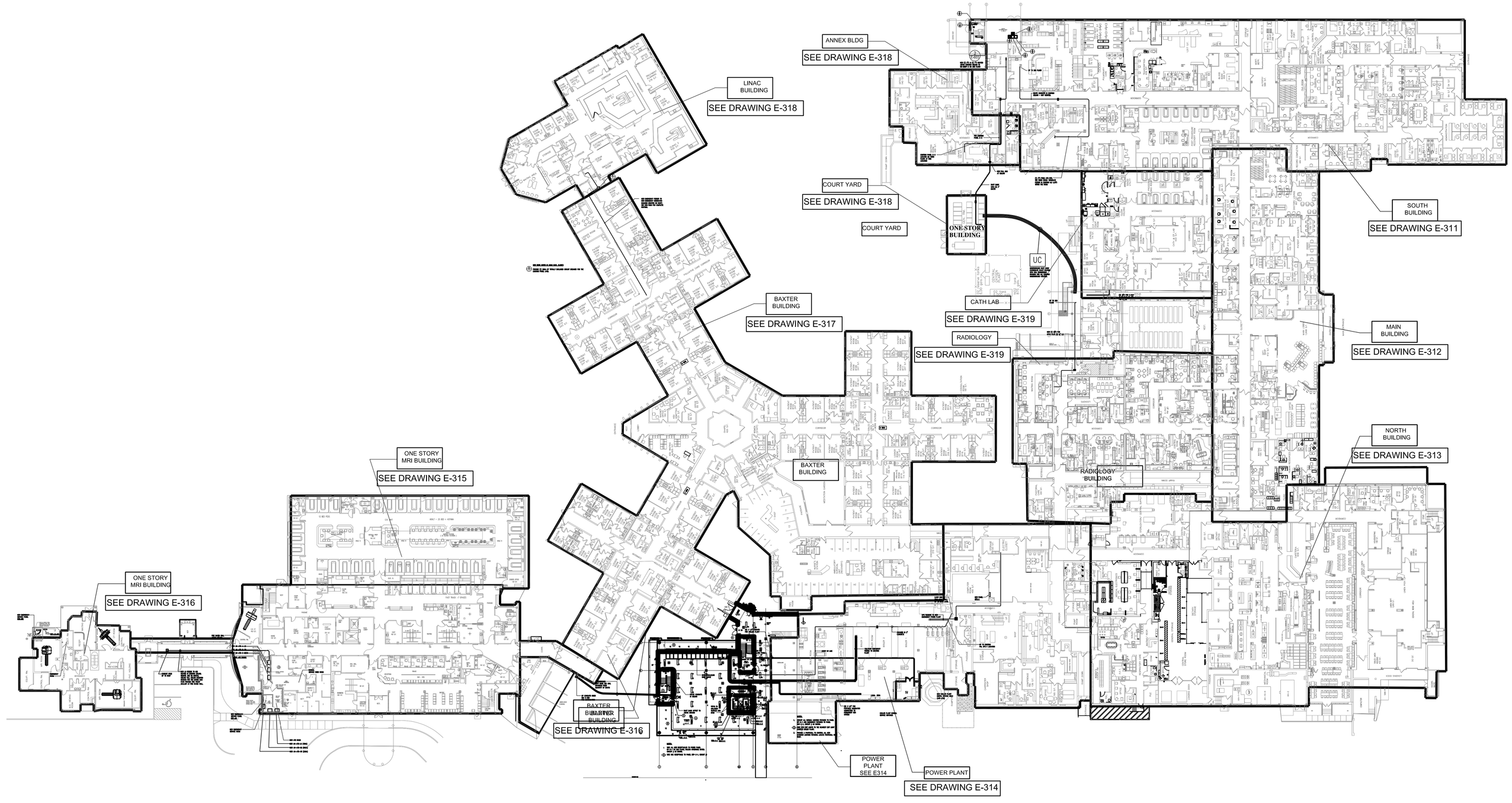
DRAWING NUMBER

E304-GB

DRAWING NAME

ROOF PLAN
NEW WORK
EMERGENCY GENERATOR

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE311
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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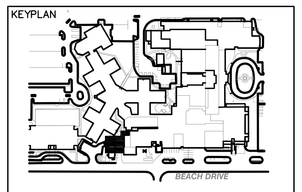

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HOSPITAL MEDICAL CENTER
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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E310

DRAWING NAME

FIRST FLOOR OVERALL PLAN – NEW WORK

DRAWING SCALE	DRAWING FILE
1/32"=1'-0"	GSHE310
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

SOUTH BUILDING

MAIN BUILDING

2 E-603

NEW (1) 2"C & (1) 1"C ROUTED ABOVE EXISTING CEILING TO SB-EMDP-3 ON 2ND FLOOR

UP TO 2ND FLOOR

EX.CC1
100A MLO
EX.CC2
225A MLO
SP TO PP-LABA
EX. LSC (30A MCB)

EX. PP-LAB1 (100A MLO)
EX. PP-LAB (100A MLO)
EX. PP-LABA (225A MLO)
EX. PP-LABB (225A MLO)
100A SP TO PP-LAB
50A SP TO PP-LAB1

EX. PANEL 'ED'(225A MLO)
200A-3P
TO THE WAITING RM PANEL

EX. PANEL CD
100A MLO (EMERG)
FROM 1 SOUTH
ELEC. ROOM

EX. PANEL LSD 30A MCB
(EMERG) FROM 1 SOUTH ELEC.
RM

EX. PPD
(NORMAL)

EX. LP-D
(NO RM)

ROUTE CONDUITS IN EXISTING CEILING - NOT VERIFIED.

LPE (100A MLO)
EX. PP-C (NO RM)
EX. LPC-A CB (EMERG)
100A MCB EACH
EX. LPC-1

EX. PR-1
EX. PP-2

EX. LPA

FOR EXISTING PANEL E-3

EX 'EM' DP
(MCC W/4 STARTERS)
TO REMAIN

EX ATS ISOLATION SW
AUTO-TRANSFER

EM'DP (BOTTOM)
30A-3P SPARE-
30-3P
A - MCC-
A - PNL E2 (2ND FLOOR)

EX. ANNEX MDP
1000A FUSED SW
TO REMAIN

NEW PULL BOX
AT CEILING
ANNEX MECH EQUIP ROOM
(SEE DWG E-503A)

EX 150 SW FOR ATS

DUCT BANK
WITH (4) 4"
DUCTS

EX. ANGIOPLASTY X-RAY MACHINE

EX.LP-N

EX. 150KVA UPS-EP(CR)

(1) 2"C FROM ATS-WT6.
SEE RISER E503A TERMINATE
FEEDER IN EXISTING G.E C/B'S
WITHIN THE ROOM

EX.EQ-1A
EX.LS-1A
EX.NLP1A
EX. CR1A
200A MCB
SEC PNL

EX. WE-2
EX. WE-1
150A FEED FROM
ANNEX ELEC. RM

EX. W-4
EX. W-3
EX. WE-5
100A MLO
FROM WE-1

EX.JOHNSON CONTROL BMS

EX. CNEMP
225A MLO.

EXLP-BE
(70A MCB)
EXLP-B
(NO RM)

EX. 480V PNE PPD
(NO RM)

EX.W-1
(NO RM)

MANHOLE LOCATION

UC

UNDERGROUND DUCT BANK
COORDINATE EXACT ROUTING
WITH CIVIL ENGINEERING
DRAWING AND ALL EXISTING
UNDERGROUND UTILITIES.

EX 112.5KVA
XFMR 208-Y/120
/480V(EQ)
(BOTTOM)

EX D/S X-RAY 2 (TOP)
EX D/S X-RAY 1 (BOT)

EX PP-AC
EX CATHLAB EM PANEL
EX DS CATH LAB

EX LP-AE (LS)(EM)
70A-MAIN
EX LP-A
EX MC

EX.DS (TOP)
EX DS (BOTTOM)

EX 225KVA(CR)
XFMR 208-277/480V (TOP)

(2) 3½"C FOR X-RAY
#1/#2 PLUS (1) 2"C
FOR LP-AE

EX. 'KP-1'
FEED 225A CB

EX. LOA
(NO RM)

EX 60A
EM PNL
FED FROM
UPS ROOM

EX PANEL 'CH'
(NO RM)

UP TO 2ND FLOOR

NEW (1) 3½"C FOR
DPEM PLUS (2) 1½" S.C.

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SEAL

REVISIONS	DATE	DESCRIPTION
4	12.04.17	CONSTRUCTION COST ESTIMATE
3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

OWNER

GOOD SAMARITAN
HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E311-SB

DRAWING NAME

FIRST FLOOR PLAN
NEW WORK
PART 1 -SOUTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE311
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

NEW WORK NOTES:

1. PROVIDE DUAL FEEDERS TO EXISTING 100KVA UPS. ONE FEEDER FED FROM BP-ATS-B2, THE OTHER ONE FEEDER FED FROM NEW EDP-EQ (BP).
2. RE-ROUTE EXISTING PANEL A(EM) TO NEW EDP-LS (BP)
3. (6) 3½"C FOR PORTABLE GENERATOR CONNECTION TO ESS-BP

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E314-PP

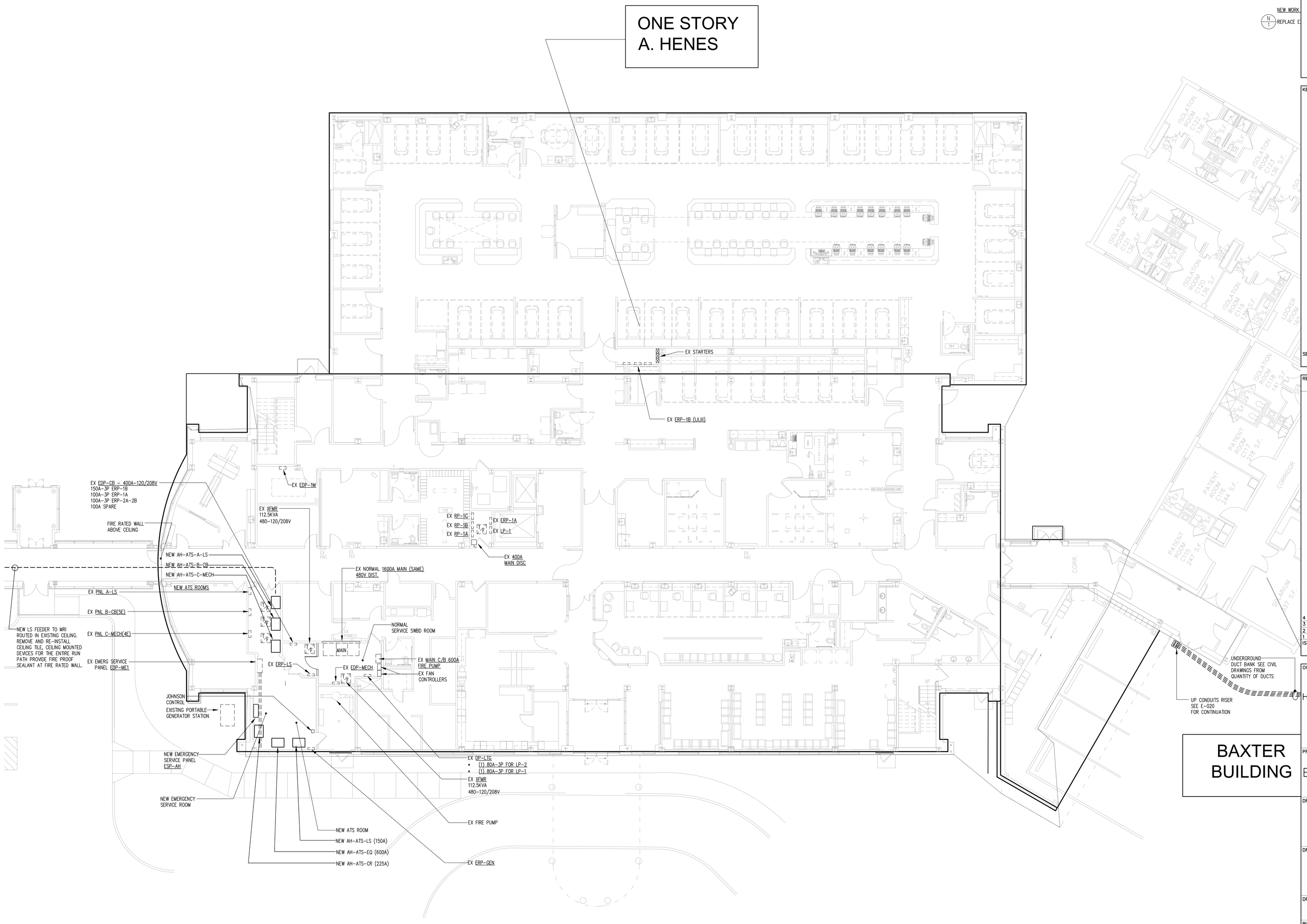
DRAWING NAME

FIRST FLOOR PLAN
NEW WORK
PART 4 - POWER PLANT

DRAWING SCALE: 1/8"=1'-0"
DRAWING FILE: GSHE314
BINDING ORDER
FIRST ISSUE DATE: 5/20/14

SCOPE OF WORK SUMMARY

1. MODIFY EXISTING ELECTRIC CLOSET AS SHOWN TO PROVIDE SEPARATION FOR EMERGENCY SYSTEM.
2. HARDENING EXISTING ELECTRICAL ROOM AS PER ARCHITECTURAL DRAWING TO PREVENT FLOODING.
3. PROVIDE NEW 277/480V EMERGENCY SERVICE FROM NEW PARALLELING SWITCHGEAR.
4. PROVIDE NEW EMERGENCY SERVICE PANEL.
5. PROVIDE RE-CONNECTION AS PER RISER E507-AH.
6. REMOVE EXISTING GENERATOR.



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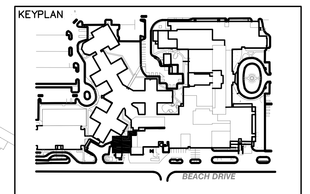

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E315-AH

DRAWING NAME

FIRST FLOOR PLAN
NEW WORK
PART 5 - A HENES

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE315
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

SCOPE OF WORK SUMMARY (BASE)

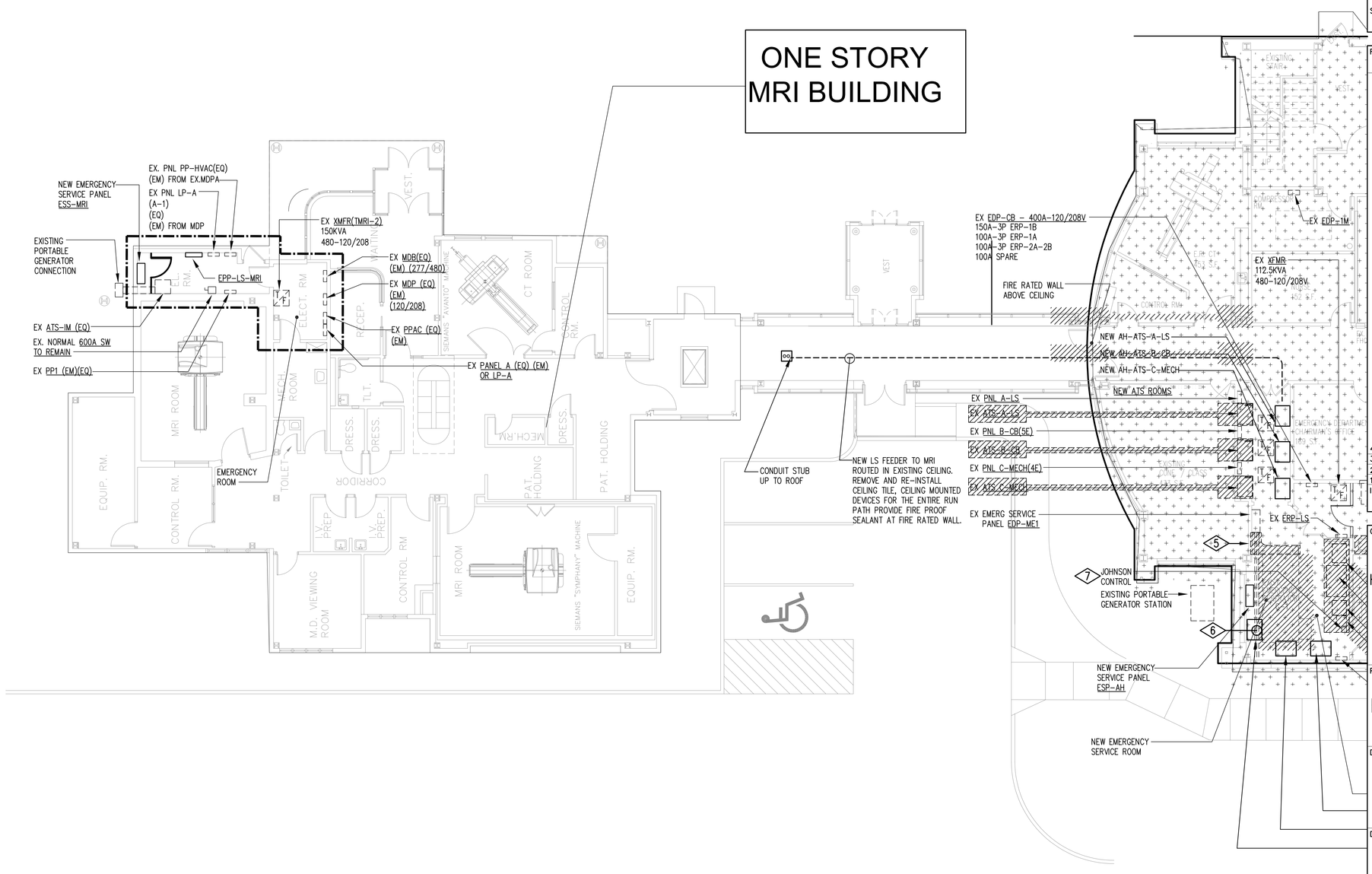
1. MODIFY EXISTING ELECTRIC CLOSET AS SHOWN.
2. PROVIDE NEW 277/480V EMERGENCY FEEDER FROM PARALLELING SWITCHGEAR.
3. PROVIDE NEW EMERGENCY SERVICE PANEL.
4. PROVIDE NEW LIFE SAFETY AND CRITICAL FEEDERS FROM A. HENES EMERGENCY DISTRIBUTION.

SCOPE OF WORK SUMMARY (ALTERNATE)

1. PROVIDE NEW ELECTRICAL ON ROOF ABOVE EXISTING ELECTRIC CLOSET AREA.
2. PROVIDE DIRECT ACCESS STAIRCASE.
3. PROVIDE THREE NEW ATS'S (EQUIPMENT, CRITICAL AND LIFE SAFETY)
4. PROVIDE NEW EQUIPMENT, CRITICAL AND LIFE SAFETY DISTRIBUTION.
5. CONNECT ALL 1ST FLOOR LOADS TO NEW DISTRIBUTION PANEL ON ROOF.
6. NO LIFE SAFETY AND CRITICAL FEEDERS FROM A. HENES BUILDING.

SCOPE OF WORK RELATED TO BRANCH CIRCUITS

- RE-ROUTE TOTAL OF (10) 20A BRANCH CIRCUITS FROM PANEL A TO NEW LIFE SAFETY PANEL.
- RE-ROUTE TOTAL OF (8) 20A BRANCH CIRCUITS FROM PANEL A-1 TO NEW LIFE SAFETY PANEL
- RE-ROUTE TOTAL OF (2) 20A BRANCH CIRCUITS FROM PANEL PPAC TO NEW LIFE SAFELY PANEL.



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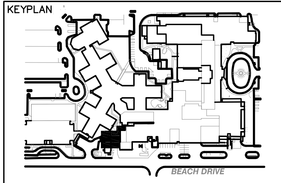

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WEST ISLIP, NY 11795

PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E316-MRI

DRAWING NAME

FIRST FLOOR PLAN
NEW WORK
PART 6-MRI

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE316
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

LINAC BUILDING

COURT YARD

BAXTER BUILDING

RADIOLOGY

NEW EMERGENCY GENERATOR BUILDING

ONE STORY BUILDING

BAXTER BUILDING

NEW WORK NOTES IN BAXTER ELEC. CLOSET:
1. REPLACE EXISTING OLD ZENITH 300A ATS WITH NEW SEE E503 RISER.

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PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

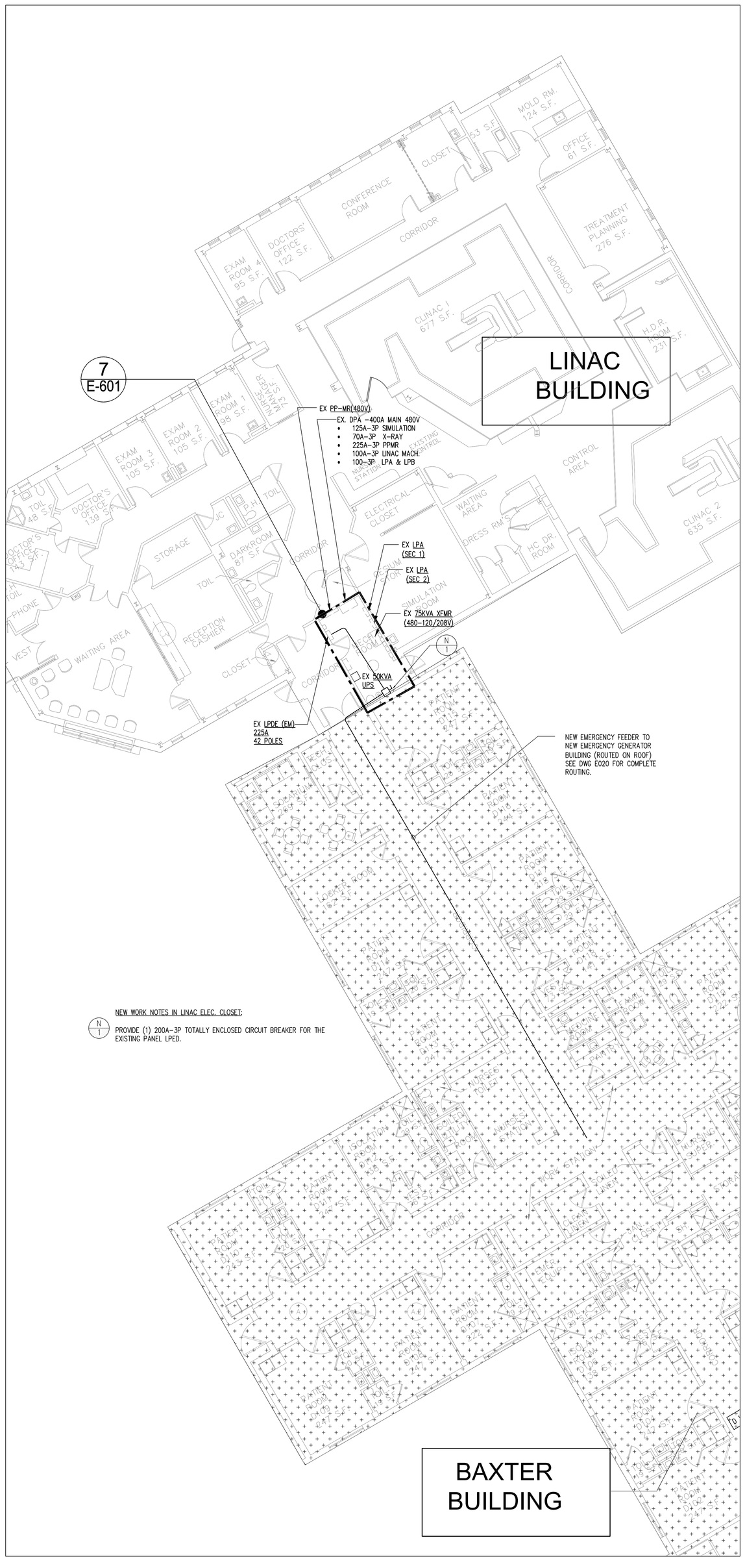
DRAWING NUMBER

E317-BX

DRAWING NAME

FIRST FLOOR PLAN
NEW WORK
PART 5 - BAXTER

DRAWING SCALE	DRAWING FILE
3/32"=1'-0"	GSHE317
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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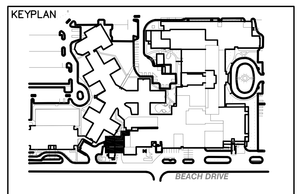

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E318-CY

DRAWING NAME

FIRST FLOOR PLAN
NEW WORK
PART 8 - COURTYARD

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE318
BINDING ORDER	FIRST ISSUE DATE
	5/20/14

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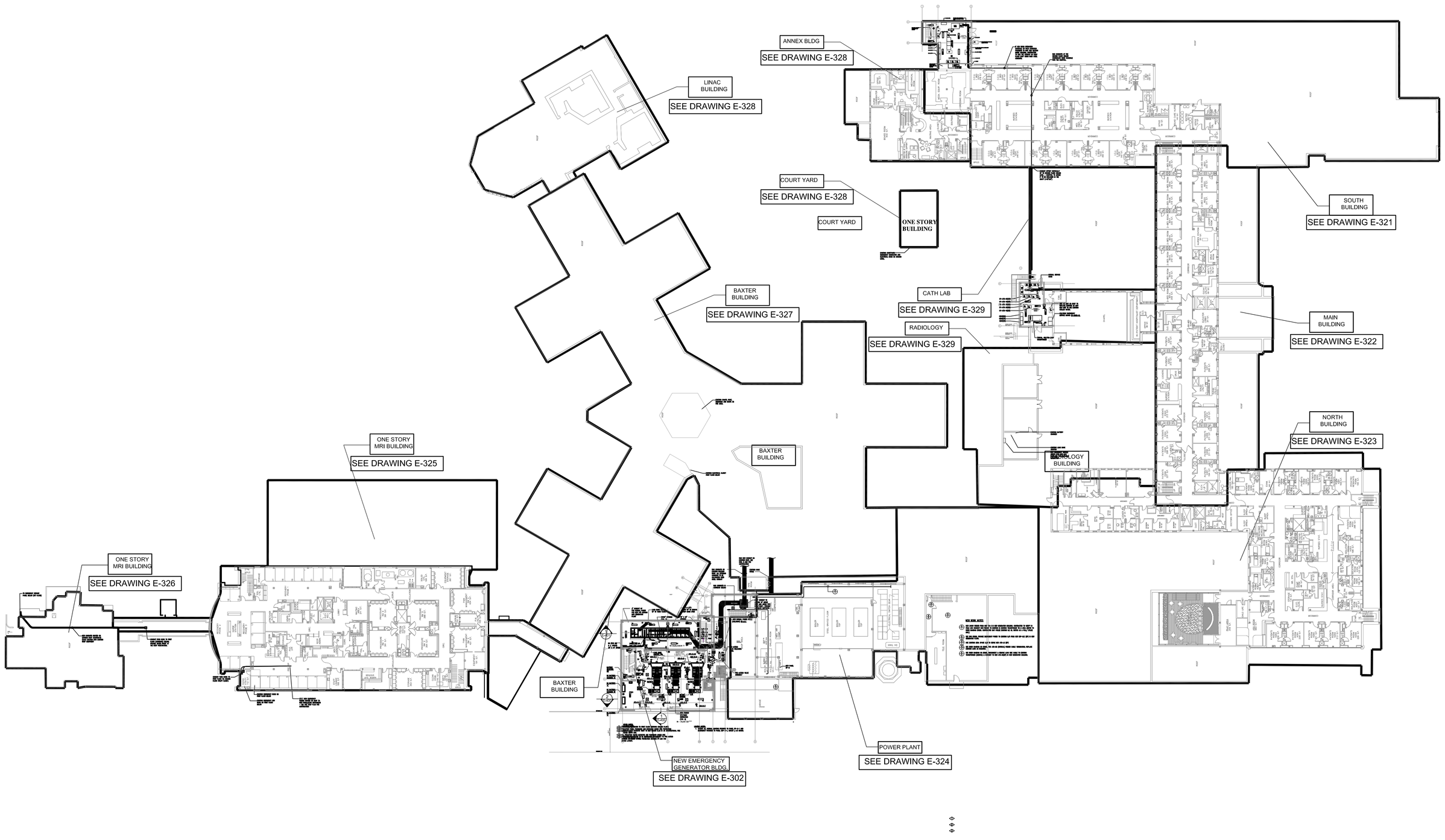
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E319-RD

DRAWING NAME
FIRST FLOOR PLAN
NEW WORK
PART 8 -RADIOLOGY

DRAWING SCALE: 1/8"=1'-0"
DRAWING FILE: GSHE319
BINDING ORDER
FIRST ISSUE DATE: 5/20/14



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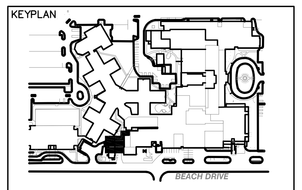

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ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E320

DRAWING NAME

SECOND FLOOR OVERALL PLAN NEW WORK

DRAWING SCALE	DRAWING FILE
1/32"=1'-0"	GSHE320
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

ANNEX BUILDING

SOUTH BUILDING

MAIN BUILDING

COURT YARD

CATH LAB

4 E-603

4 E-602

3 E-602

IF CCU ROOM OPERATION SCHEDULE OR FIELD CONDITION PROHIBITS TO RUN THIS SECTION INSIDE BUILDING, CONTRACTOR TO RUN THE CONDUIT ON FIRST FLOOR ROOF USING RIGID STEEL CONDUITS.

RUN CONDUITS AT THE SECOND FLOOR CEILING COORDINATE WORK SCHEDULE WITH THE HOSPITAL.

EB
300A MCB
NEW 1 1/4"C. TO SB-EMDP

EX. PLSEB-B
225A MLO
EX. PLSEB-A

LSEB-1 ,70A MCB
LSEB-B ,100A MCB
CB,200A MLO
LP-B
30A MCB

(1) NEW CONDUIT UP TO 3RD FLOOR PANEL 1PP-1F (DIALYSIS)

EX. L-2
EX. EM-2(L-2E)
100A MLO
FED FROM ANNEX EMDP

CONDUIT OFFSET VERTICALLY UP TO "SECOND" FLOOR CEILING LEVEL - HOSPITAL TO ADVISE IF TO BE ENCLOSED IN THE SHAFT"(±18"x18")

WAITING ROOM
ELEC CLOSET PANEL
FED FROM "ED"
225A MLO

2WEA
100A MLO
FED FROM
2WE

2WAO
100A MLO
FED FROM
2W

2W 200A
MCB

2WE
200A MLO

EXISTING COURTYARD EMERGENCY GENERATOR AND ELECTRICAL ROOM ON "GROUND" LEVEL

NORMAL SERVICE ROOM

CY-ATS-5C(CR)
CY-ATS-4C(CR)
CY-ATS-3C(EQ)
CY-ATS-2C(EQ)
CY-ATS-1C(CR)

CED3(EQ)
CED2(CR)
CED1(CR)

NEW AC UNIT ON ROOF TO REPLACE EXISTING AC UNIT NEW UNIT TO USE EXISTING CHILLED WATER.

120/208V EMERGENCY SERVICE BOARD CY-EMSS-CL

750KVA, 480/120-208V TRANSFORMER

EX. 75 KVA
ATS-CR-2 SPARE
ATS-CR-1 SPARE
EX. ATS-LS
EX. ATS-MECH
EX. ATS-MED

EX 45KVA XMER 480-120/208V
EX EDP-MED
EX EDP-LSR
EX 45KVA XMER 480-120/208V

EX EQ-1
100/100A

EX 200A DISCONNECT SWITCH.
EX EDP-EQ(EQ)

WEC2
200A MCB

EEC2
200A MCB

RISERS END HERE FED FROM ABOVE

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E321-SB

DRAWING NAME

SECOND FLOOR PLAN NEW WORK PART 1 - SOUTH BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE321
BINDING ORDER	FIRST ISSUE DATE
	5/20/14