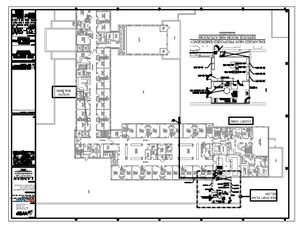

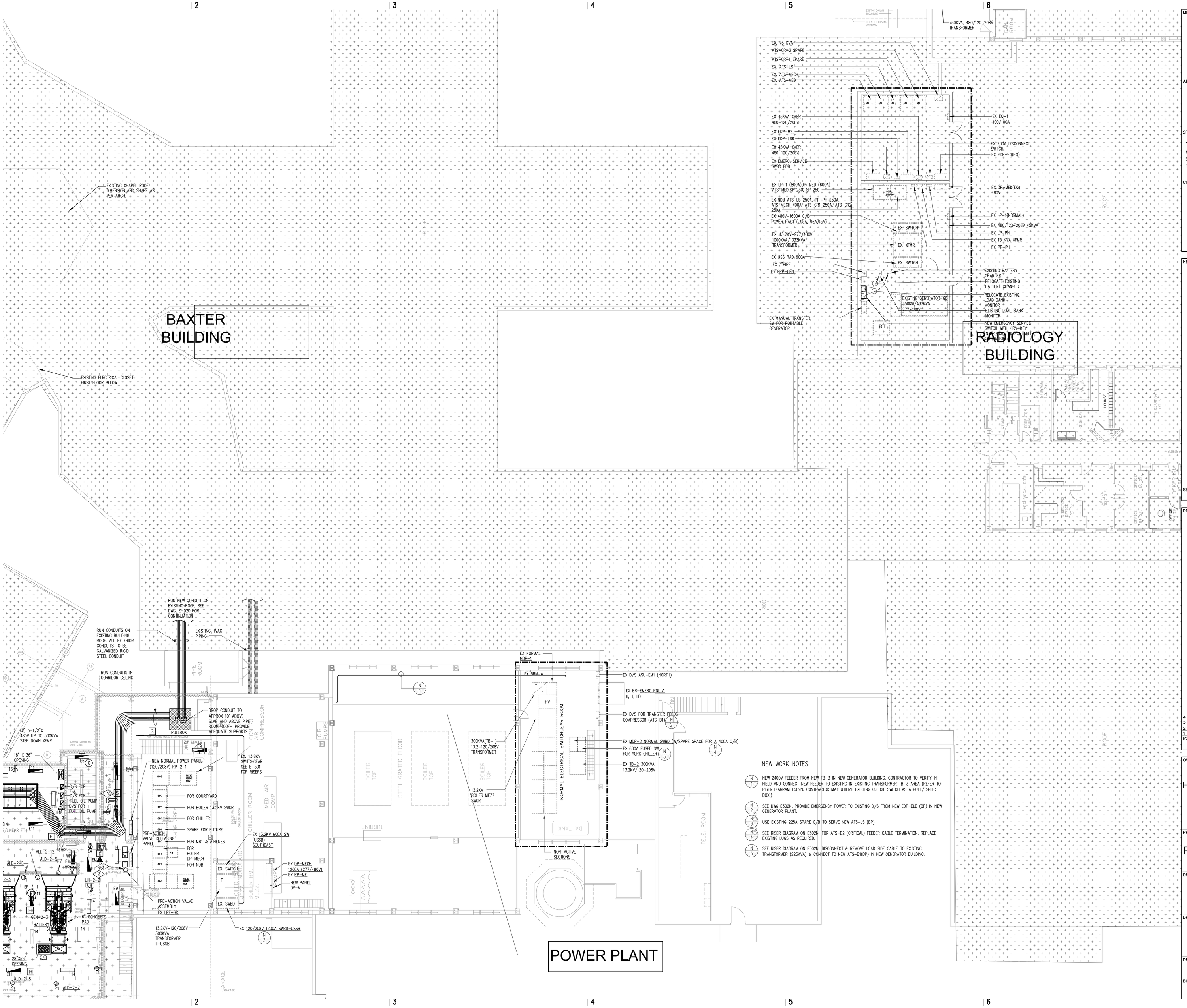

NEW WORK NOTES

1. NEW 2400V FEEDER FROM NEW TB-3 IN NEW GENERATOR BUILDING. CONTRACTOR TO VERIFY IN FIELD AND CONNECT NEW FEEDER TO EXISTING IN EXISTING TRANSFORMER TB-3 AREA (REFER TO RISER DIAGRAM E502N. CONTRACTOR MAY UTILIZE EXISTING G.E OIL SWITCH AS A PULL/ SPLICE BOX.)
2. SEE DWG E502N, PROVIDE EMERGENCY POWER TO EXISTING D/S FROM NEW EDP-ELE (BP) IN NEW GENERATOR PLANT.
3. USE EXISTING 225A SPARE C/B TO SERVE NEW ATS-LS (BP)
4. SEE RISER DIAGRAM ON E502N, FOR ATS-B2 (CRITICAL) FEEDER CABLE TERMINATION, REPLACE EXISTING LUGS AS REQUIRED.
5. SEE RISER DIAGRAM ON E502N, DISCONNECT & REMOVE LOAD SIDE CABLE TO EXISTING TRANSFORMER (225KVA) & CONNECT TO NEW ATS-B1(BP) IN NEW GENERATOR BUILDING.

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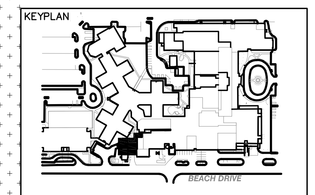

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2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT
ISSUE	DATE	DESCRIPTION

OWNER
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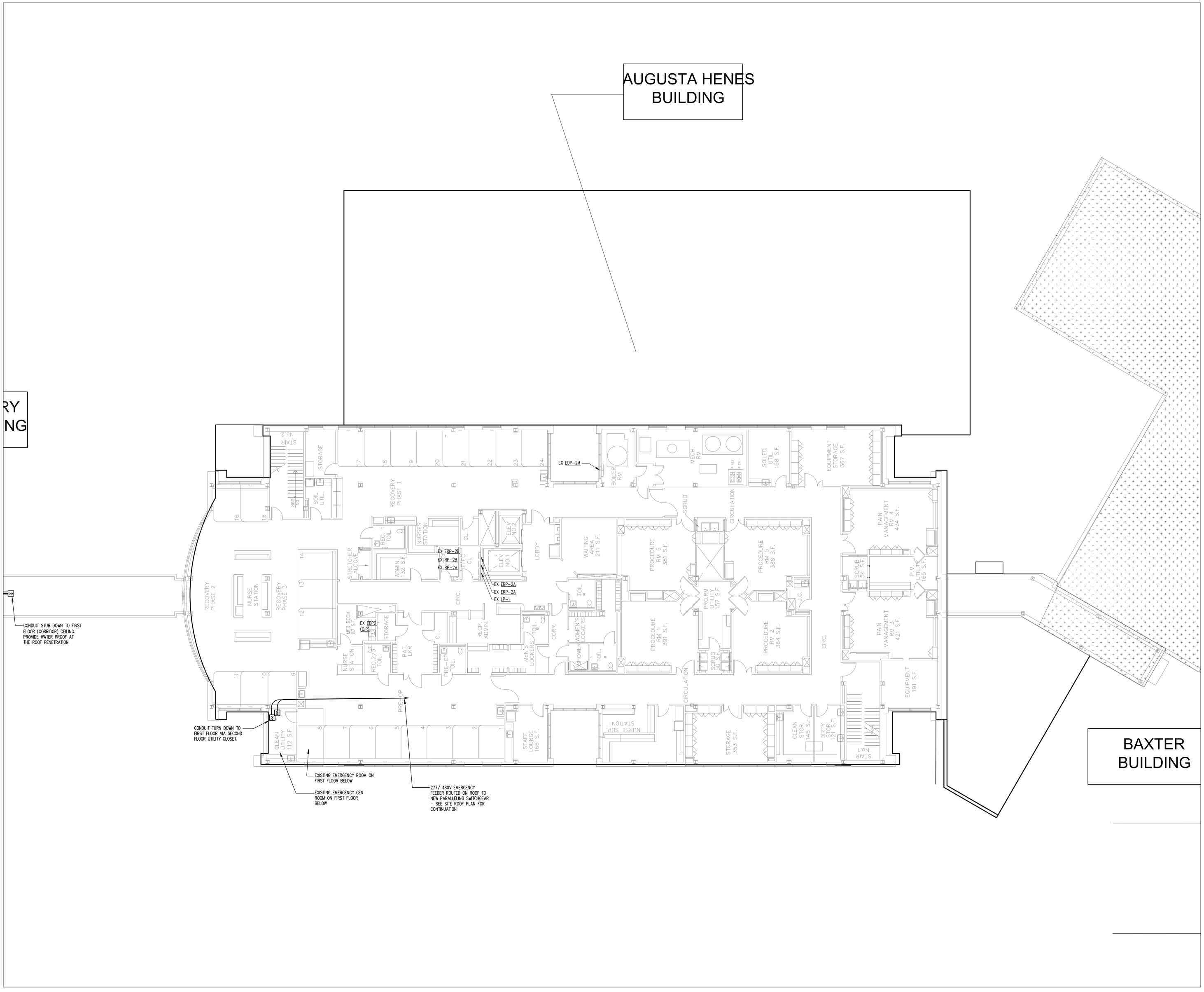
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E324-PP

DRAWING NAME
SECOND FLOOR PLAN
NEW WORK
PART 4 – POWER PLANT

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE324
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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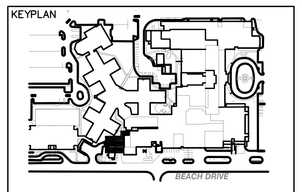

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ISSUE	DATE	DESCRIPTION

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

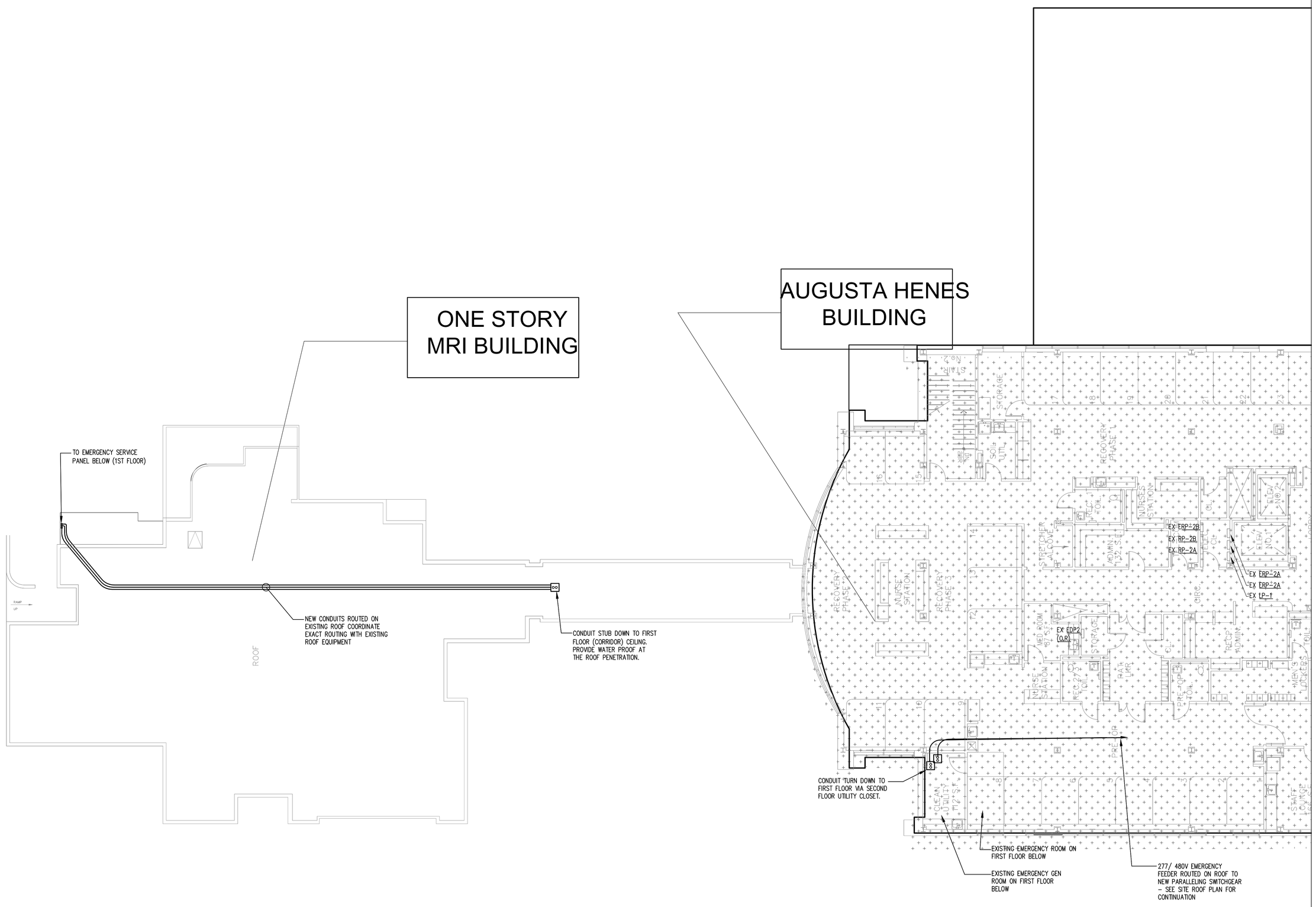
DRAWING NUMBER

E325-AH

DRAWING NAME

SECOND FLOOR PLAN
NEW WORK
PART 5 - A. HENES

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE325
BINDING ORDER	FIRST ISSUE DATE 5/20/14



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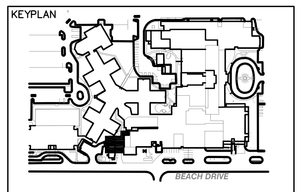

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PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

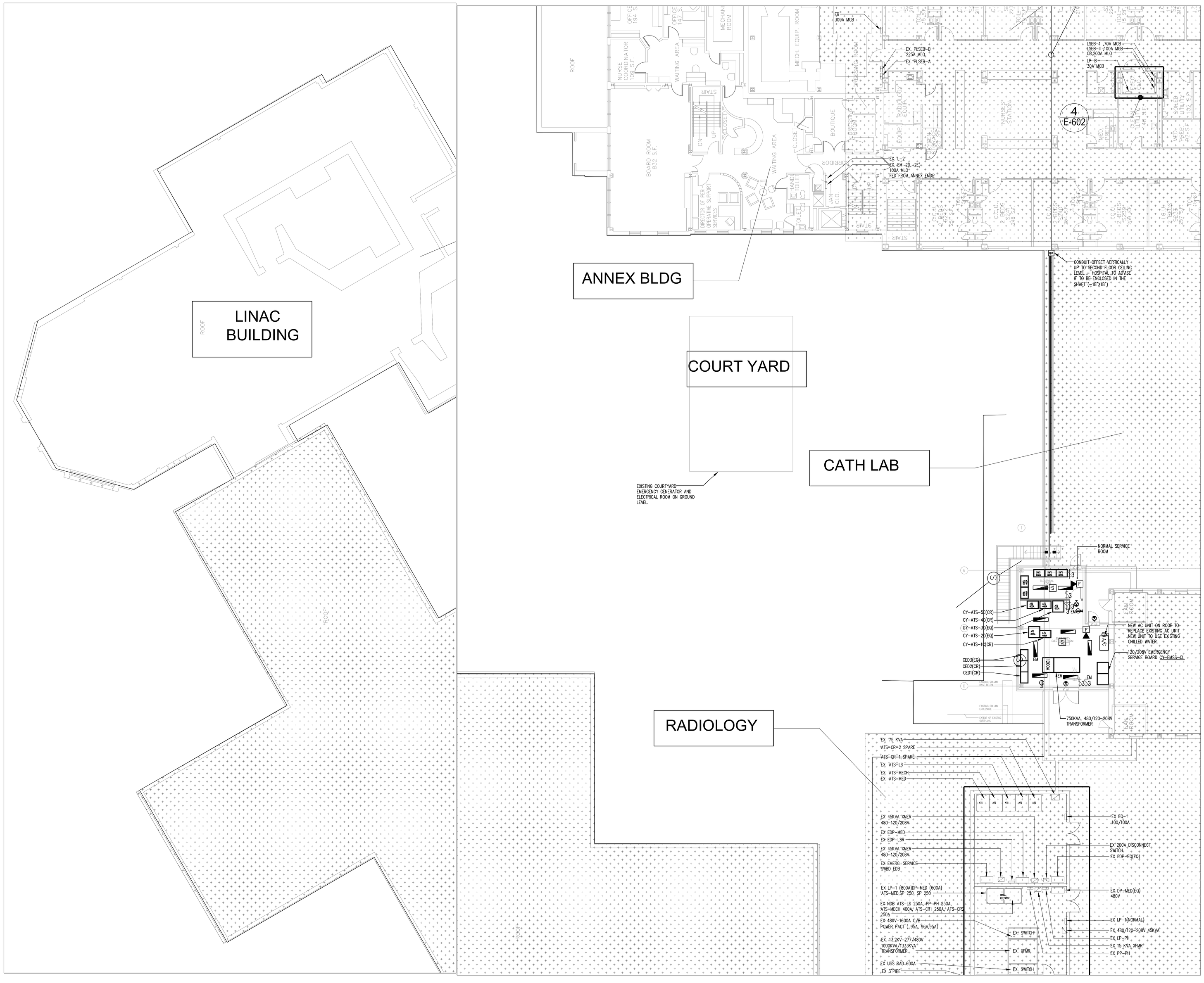
DRAWING NUMBER

E326-MRI

DRAWING NAME

SECOND FLOOR PLAN
NEW WORK
PART 6 – MRI

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE326
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



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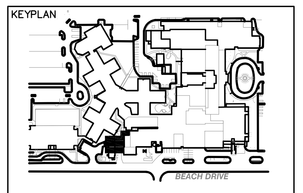

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

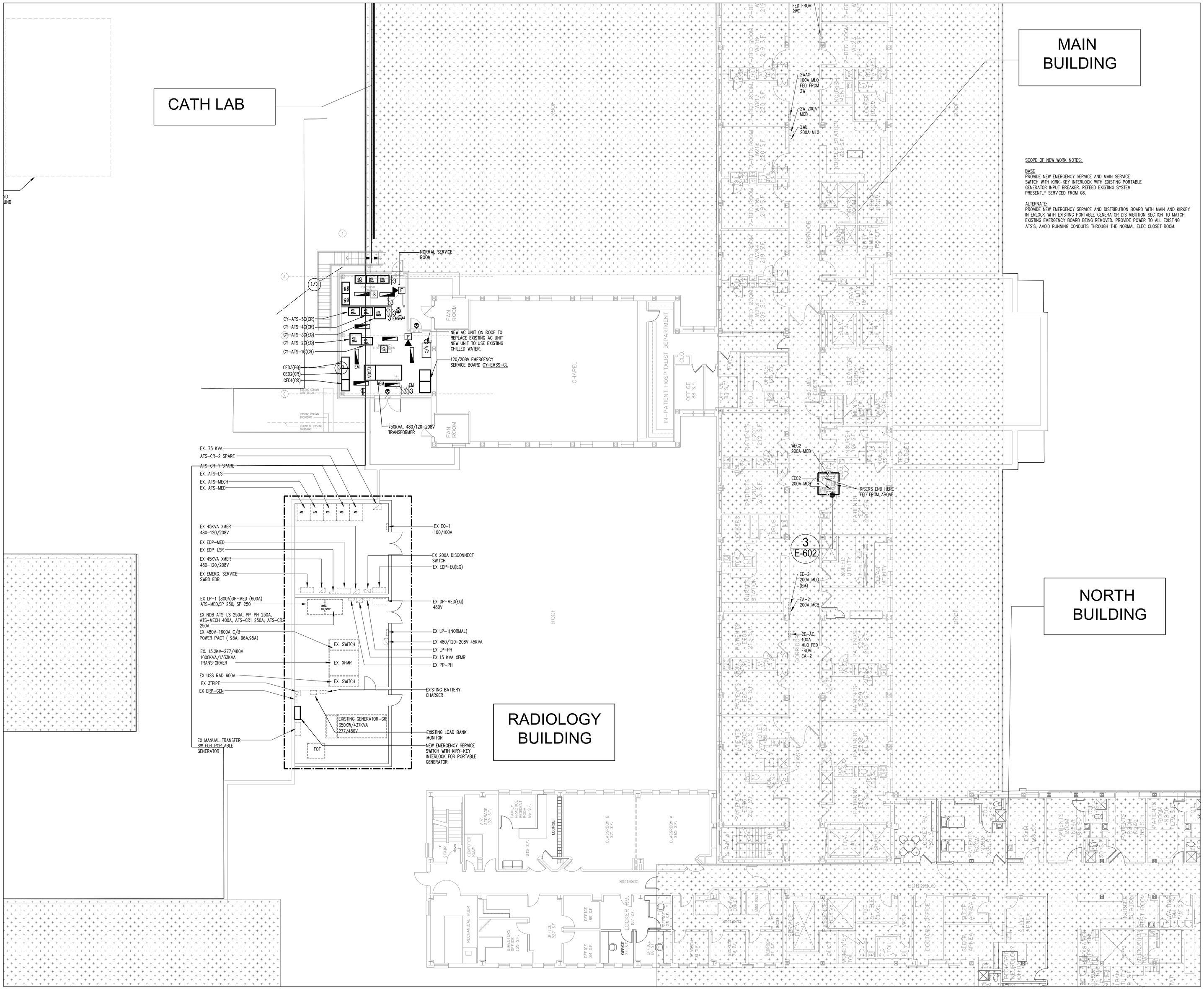
DRAWING NUMBER

E328-CY

DRAWING NAME

SECOND FLOOR PLAN
NEW WORK
PART 8 - COURTYARD

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE328
BINDING ORDER	FIRST ISSUE DATE
	5/20/14



SCOPE OF NEW WORK NOTES:

BASE
PROVIDE NEW EMERGENCY SERVICE AND MAIN SERVICE SWITCH WITH KIRK-KEY INTERLOCK WITH EXISTING PORTABLE GENERATOR INPUT BREAKER. REFEED EXISTING SYSTEM PRESENTLY SERVICED FROM G6.

ALTERNATE:
PROVIDE NEW EMERGENCY SERVICE AND DISTRIBUTION BOARD WITH MAIN AND KIRKEY INTERLOCK WITH EXISTING PORTABLE GENERATOR DISTRIBUTION SECTION TO MATCH EXISTING EMERGENCY BOARD BEING REMOVED. PROVIDE POWER TO ALL EXISTING ATS'S, AVOID RUNNING CONDUITS THROUGH THE NORMAL ELEC CLOSET ROOM.

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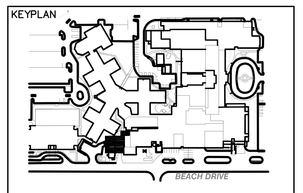

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ISSUE	DATE	DESCRIPTION

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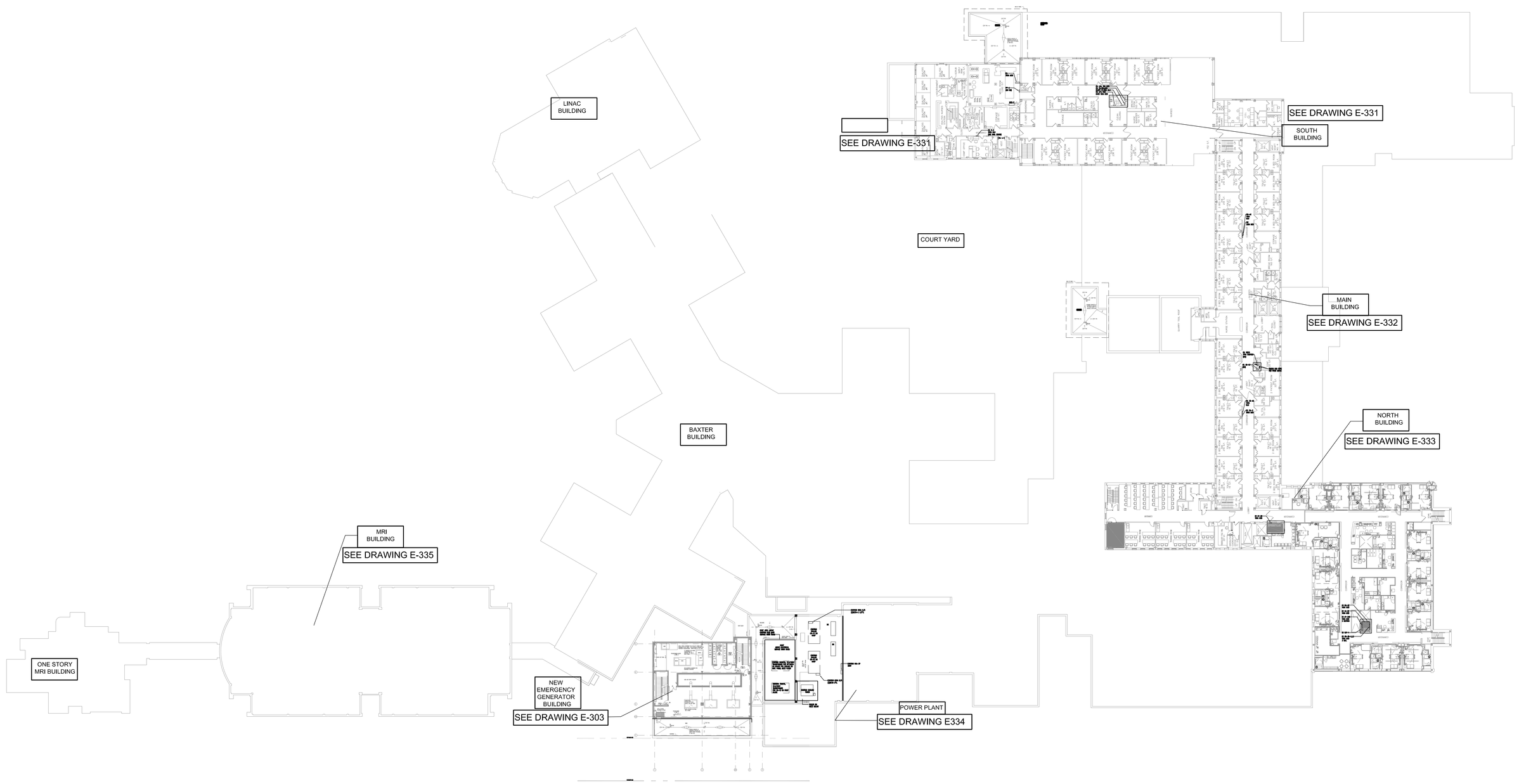
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E329-RB

DRAWING NAME
SECOND FLOOR PLAN NEW WORK PART 9 - RADIOLOGY

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE329
BINDING ORDER	FIRST ISSUE DATE 5/20/14



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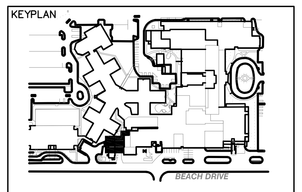

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

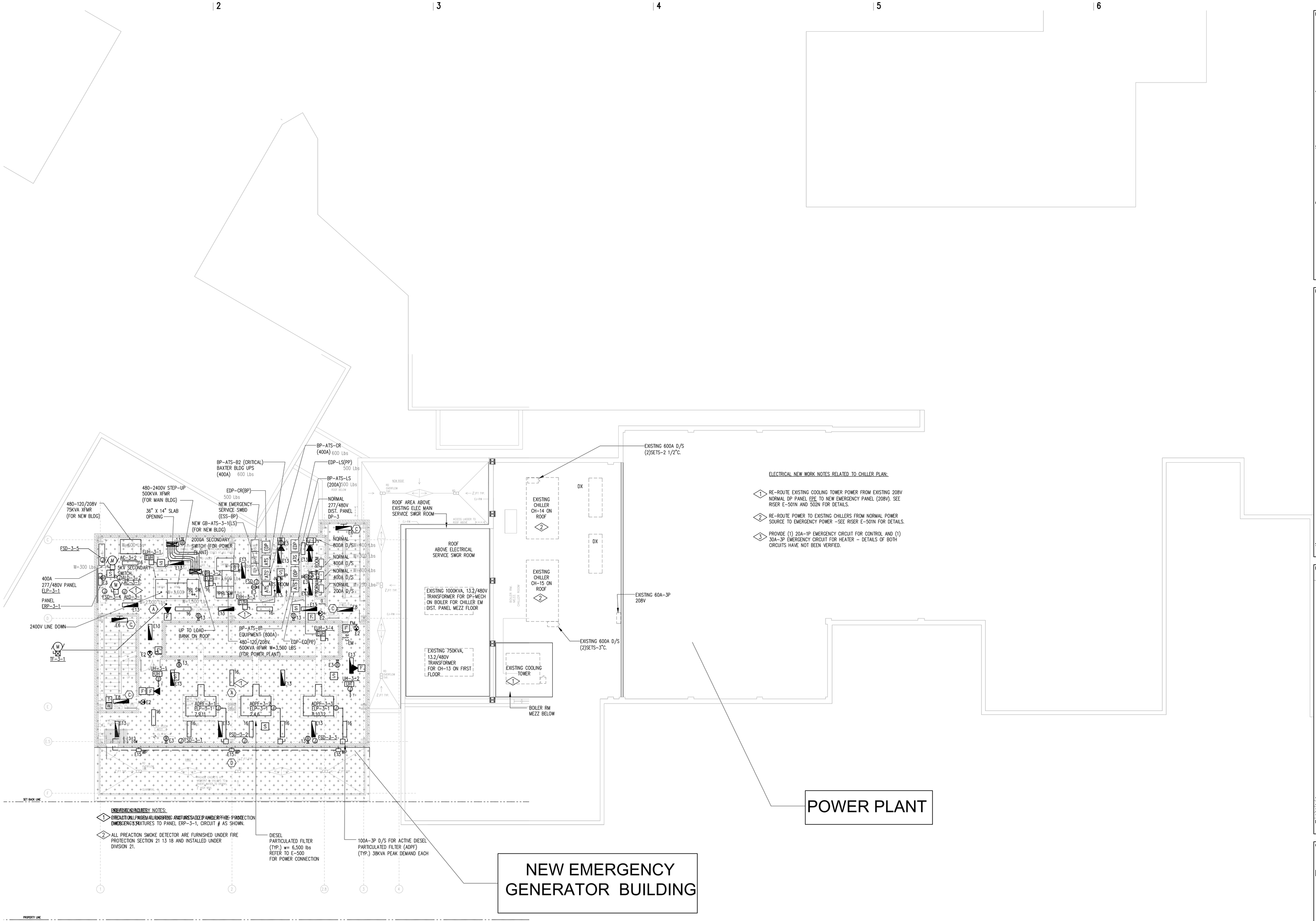
DRAWING NUMBER

E330

DRAWING NAME

THIRD FLOOR
OVERALL PLAN NEW WORK

DRAWING SCALE	DRAWING FILE
1/16"=1'-0"	GSHE330
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



ELECTRICAL NEW WORK NOTES RELATED TO CHILLER PLAN:

1. RE-ROUTE EXISTING COOLING TOWER POWER FROM EXISTING 208V NORMAL DP PANEL FPE TO NEW EMERGENCY PANEL (208V). SEE RISER E-501N AND 502N FOR DETAILS.
2. RE-ROUTE POWER TO EXISTING CHILLERS FROM NORMAL POWER SOURCE TO EMERGENCY POWER -SEE RISER E-501N FOR DETAILS.
3. PROVIDE (1) 20A-1P EMERGENCY CIRCUIT FOR CONTROL AND (1) 30A-3P EMERGENCY CIRCUIT FOR HEATER - DETAILS OF BOTH CIRCUITS HAVE NOT BEEN VERIFIED.

DEMOLITION NOTES:

1. PRECAUTION TO PROTECT ALL RUNS AND FIXTURES TO BE UNDERFIRE PROTECTION EMDISCONNECT FIXTURES TO PANEL ERP-3-1, CIRCUIT # AS SHOWN.
2. ALL PREACTION SMOKE DETECTOR ARE FURNISHED UNDER FIRE PROTECTION SECTION 21 13 18 AND INSTALLED UNDER DIVISION 21.

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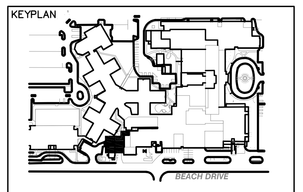

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PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

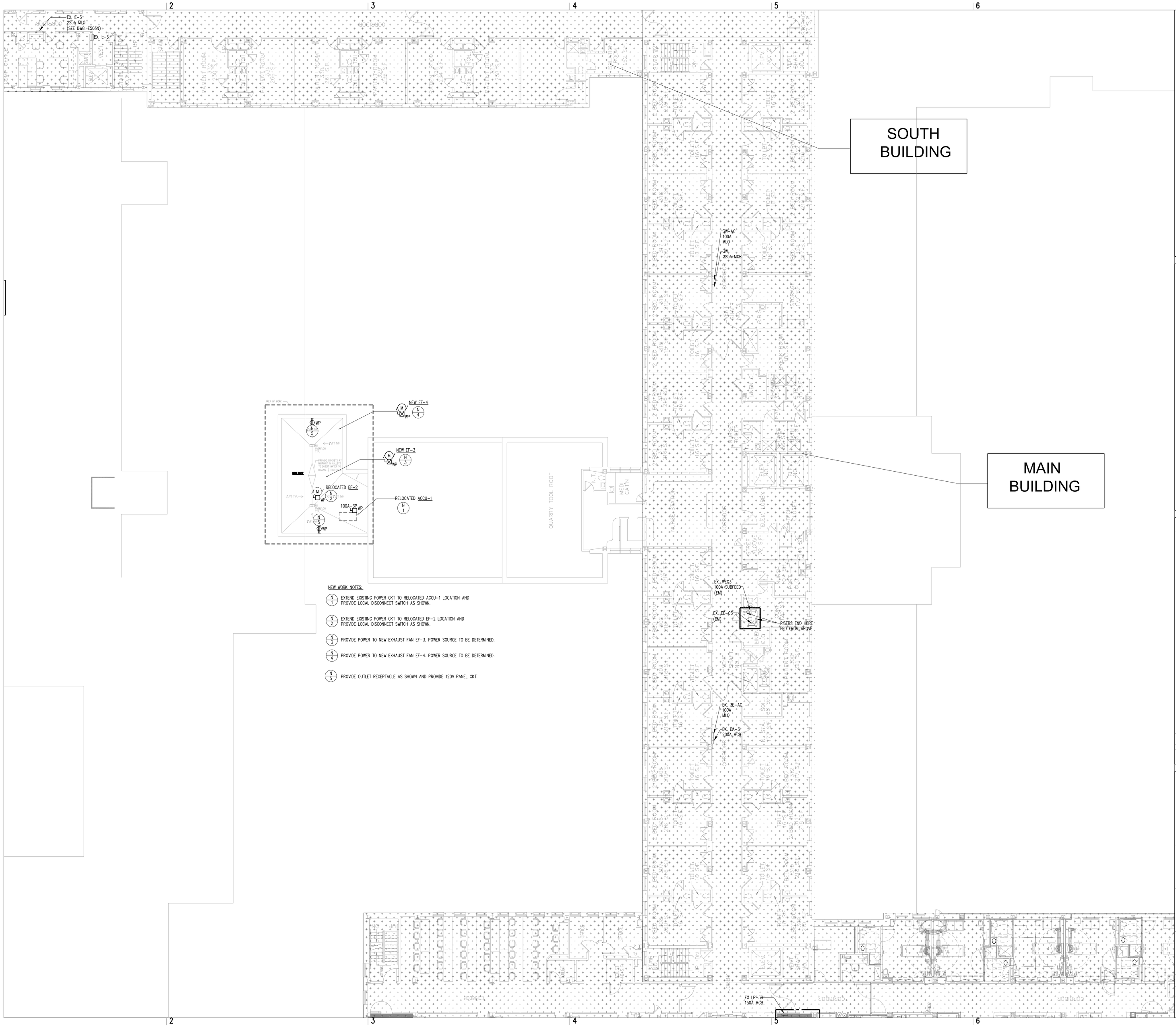
DRAWING NUMBER

E334-PP

DRAWING NAME

THIRD FLOOR PLAN
NEW WORK
PART 4 - POWER PLANT

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE324
BINDING ORDER	FIRST ISSUE DATE 5/20/14



NEW WORK NOTES:

1. EXTEND EXISTING POWER CKT TO RELOCATED ACCU-1 LOCATION AND PROVIDE LOCAL DISCONNECT SWITCH AS SHOWN.
2. EXTEND EXISTING POWER CKT TO RELOCATED EF-2 LOCATION AND PROVIDE LOCAL DISCONNECT SWITCH AS SHOWN.
3. PROVIDE POWER TO NEW EXHAUST FAN EF-3. POWER SOURCE TO BE DETERMINED.
4. PROVIDE POWER TO NEW EXHAUST FAN EF-4. POWER SOURCE TO BE DETERMINED.
5. PROVIDE OUTLET RECEPTACLE AS SHOWN AND PROVIDE 120V PANEL CKT.

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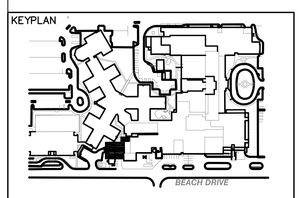

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WEST ISLIP, NY 11795

PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

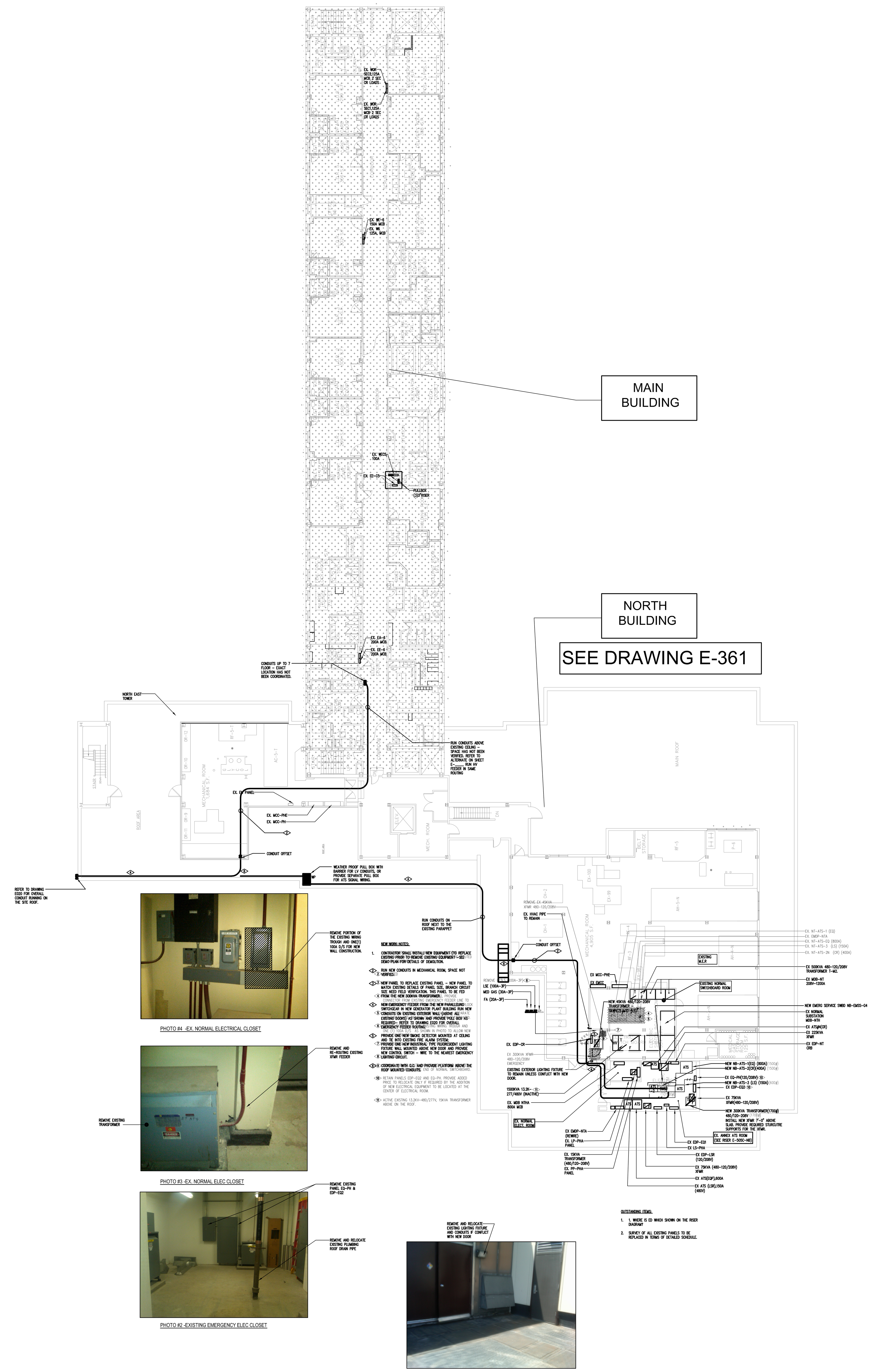
DRAWING NUMBER

E338-CY

DRAWING NAME

THIRD FLOOR PLAN
NEW WORK
PART 5 – COURT YARD

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE335
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



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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

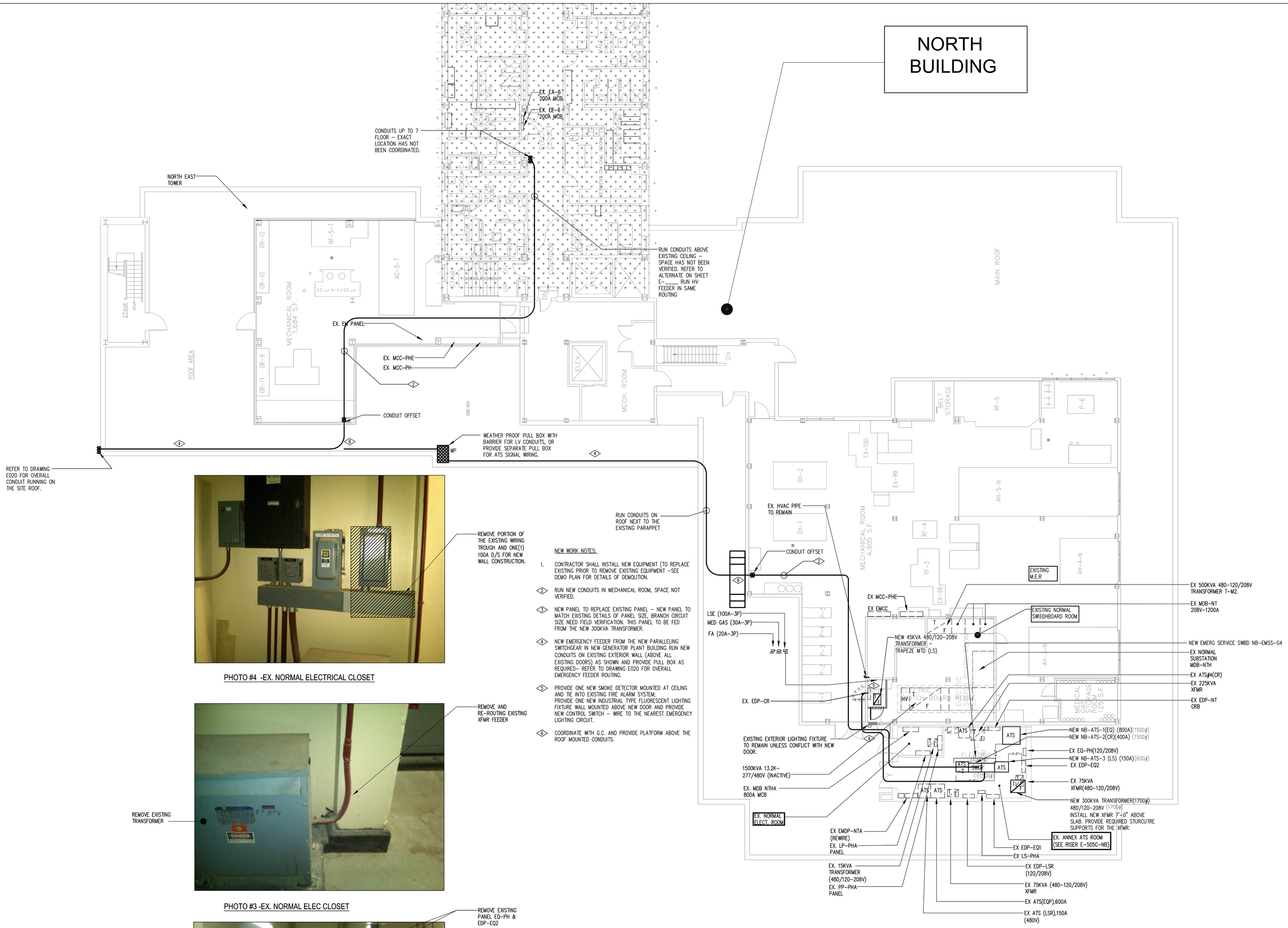
OWNER
GOOD SAMARITAN HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E360

DRAWING NAME
SIXTH FLOOR OVERALL NEW WORK

DRAWING SCALE: 1/16"=1'-0"
DRAWING FILE: GSHE360
BINDING ORDER
FIRST ISSUE DATE: 5/14/14



NEW WORK NOTES:

1. CONTRACTOR SHALL INSTALL NEW EQUIPMENT (TO REPLACE EXISTING PRIOR TO REMOVE EXISTING EQUIPMENT –SEE DEMO PLAN FOR DETAILS OF DEMOLITION.

2. RUN NEW CONDUITS IN MECHANICAL ROOM, SPACE NOT VERIFIED.

3. NEW PANEL TO REPLACE EXISTING PANEL – NEW PANEL TO MATCH EXISTING DETAILS OF PANEL SIZE, BRANCH CIRCUIT SIZE NEED FIELD VERIFICATION. THIS PANEL TO BE FED FROM THE NEW 300KVA TRANSFORMER.

4. NEW EMERGENCY FEEDER FROM THE NEW PARALLELING SWITCHGEAR IN NEW GENERATOR PLANT BUILDING RUN NEW CONDUITS ON EXISTING EXTERIOR WALL (ABOVE ALL EXISTING DOORS) AS SHOWN AND PROVIDE PULL BOX AS REQUIRED– REFER TO DRAWING E020 FOR OVERALL EMERGENCY FEEDER ROUTING.

5. PROVIDE ONE NEW SMOKE DETECTOR MOUNTED AT CEILING AND TIE INTO EXISTING FIRE ALARM SYSTEM; PROVIDE ONE NEW INDUSTRIAL TYPE FLUORESCENT LIGHTING FIXTURE WALL MOUNTED ABOVE NEW DOOR AND PROVIDE NEW CONTROL SWITCH – WIRE TO THE NEAREST EMERGENCY LIGHTING CIRCUIT.

6. COORDINATE WITH G.C. AND PROVIDE PLATFORM ABOVE THE ROOF MOUNTED CONDUITS.

PHOTO #4 -EX. NORMAL ELECTRICAL CLOSET

PHOTO #3 -EX. NORMAL ELEC CLOSET

PHOTO #2 -EXISTING EMERGENCY ELEC CLOSET

OUTSTANDING ITEMS:

1. 1. WHERE IS ED WHICH SHOWN ON THE RISER DIAGRAM?

2. SURVEY OF ALL EXISTING PANELS TO BE REPLACED IN TERMS OF DETAILED SCHEDULE.

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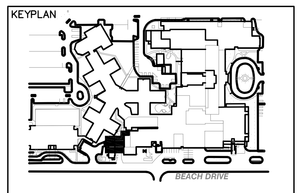

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

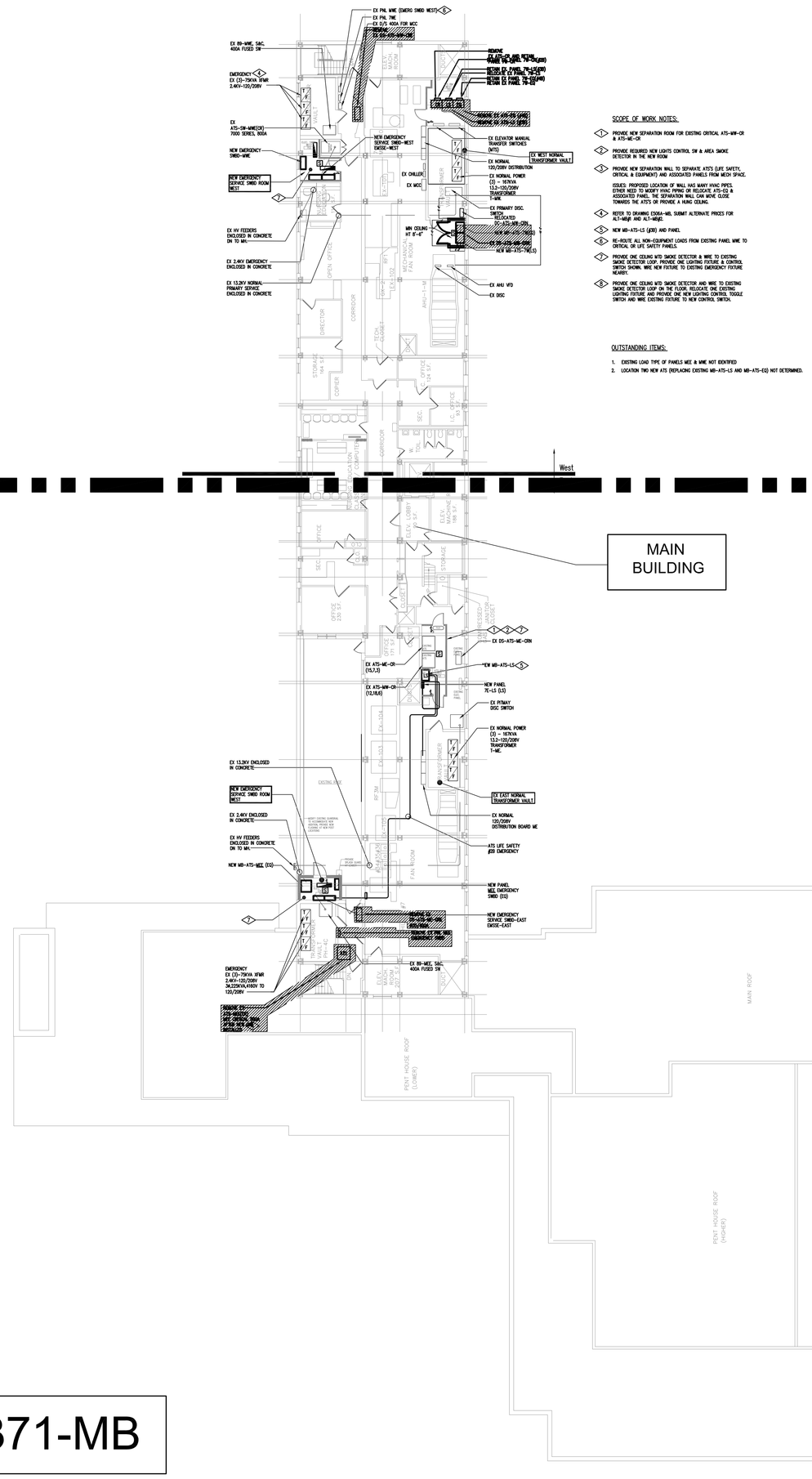
E361-NB

DRAWING NAME

SIXTH FLOOR PLAN
NEW WORK
PART 1 – NORTH BUILDING

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE362
BINDING ORDER	FIRST ISSUE DATE 04/18/14

SEE DRAWING E371-MB



SCOPE OF WORK NOTES:

1. PROVIDE NEW SEPARATION ROOM FOR EXISTING CRITICAL ATS-MW-CR & ATS-NE-CR
2. PROVIDE REQUIRED NEW LIGHTS CONTROL SW & AREA SMOKE DETECTOR IN THE NEW ROOM
3. PROVIDE NEW SEPARATION WALL TO SEPARATE ATS'S (LIFE SAFETY, CRITICAL & EQUIPMENT) AND ASSOCIATED PANELS FROM MECH SPACE.

   ISSUES: PROPOSED LOCATION OF WALL HAS MANY HVAC PIPES. IF THE WALL CANNOT BE PLACED AT LEAST 3' AWAY FROM THE ASSOCIATED PANEL, THE SEPARATION WALL CAN NOT BE CLOSE TOWARDS THE ATS'S OR PROVIDE A NONC CEILING.
4. REFER TO DRAWING E390A-MB. SUBMIT ALTERNATE PRICES FOR ALT-NMLP AND ALT-NMLES
5. NEW MB-ATS-LS (LIFE) AND PANEL
6. RE-ROUTE ALL NON-EQUIPMENT LOADS FROM EXISTING PANEL MNE TO CRITICAL OR LIFE SAFETY PANELS.
7. PROVIDE ONE CEILING MTD SMOKE DETECTOR & WIRE TO EXISTING SMOKE DETECTOR LOOP. PROVIDE ONE LIGHTING FIXTURE & CONTROL SWITCH. SHOWN, WIRE NEW FIXTURE TO EXISTING EMERGENCY FIXTURE ON LOOP.
8. PROVIDE ONE CEILING MTD SMOKE DETECTOR AND WIRE TO EXISTING SMOKE DETECTOR LOOP ON THE FLOOR. RELOCATE THE EXISTING LIGHTING FIXTURE AND PROVIDE ONE NEW LIGHTING CONTROL TOGGLE SWITCH AND WIRE EXISTING FIXTURE TO NEW CONTROL SWITCH.

OUTSTANDING ITEMS:

1. EXISTING LOAD TYPE OF PANELS MCC & MNE NOT IDENTIFIED
2. LOCATION TWO NEW ATS (REPLACING EXISTING MB-ATS-LS AND MB-ATS-EQ) NOT DETERMINED.

SEE DRAWING E371-MB

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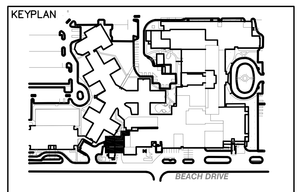

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E370-MB

DRAWING NAME

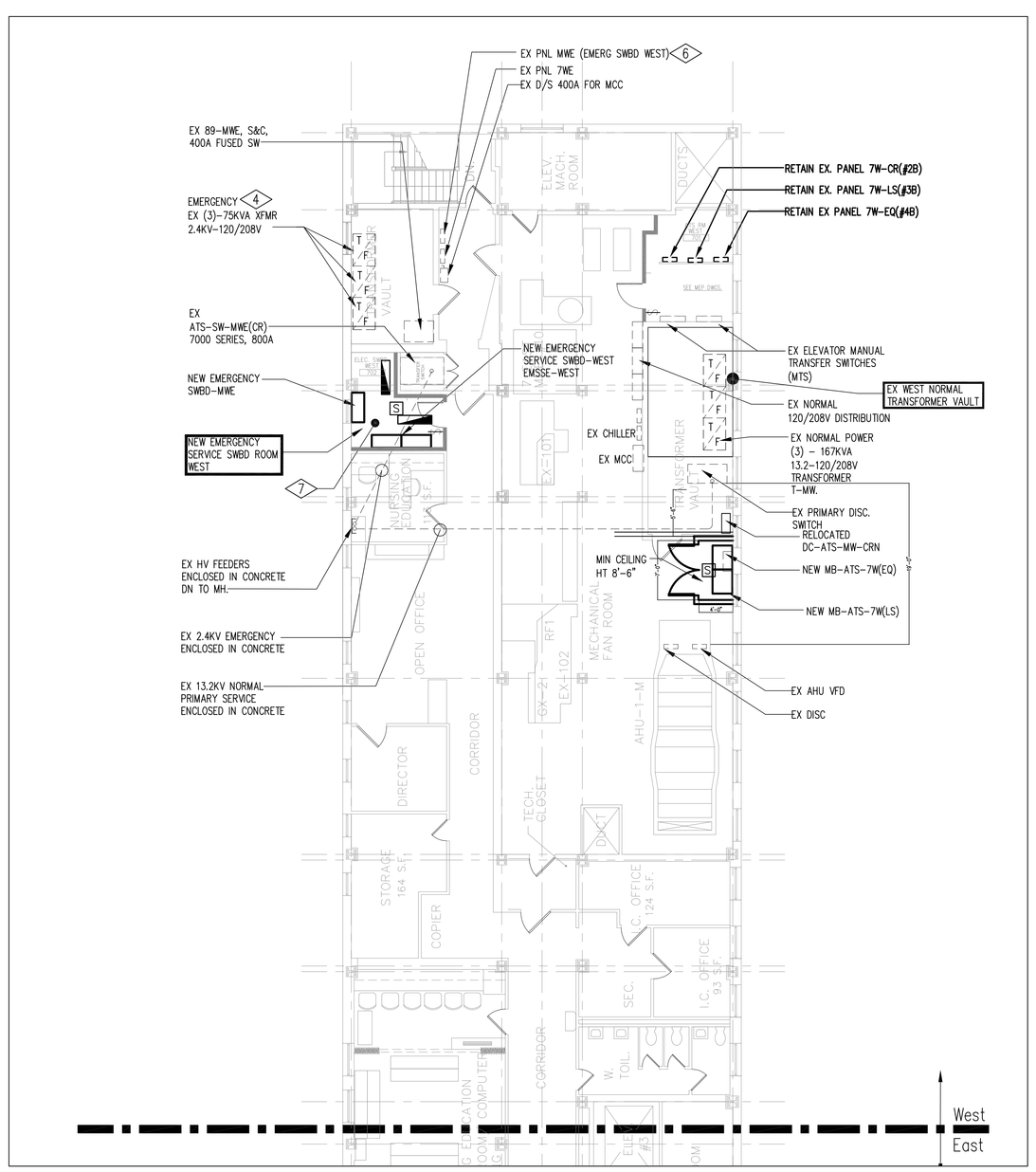
SEVENTH FLOOR OVERALL PLAN - NEW WORK

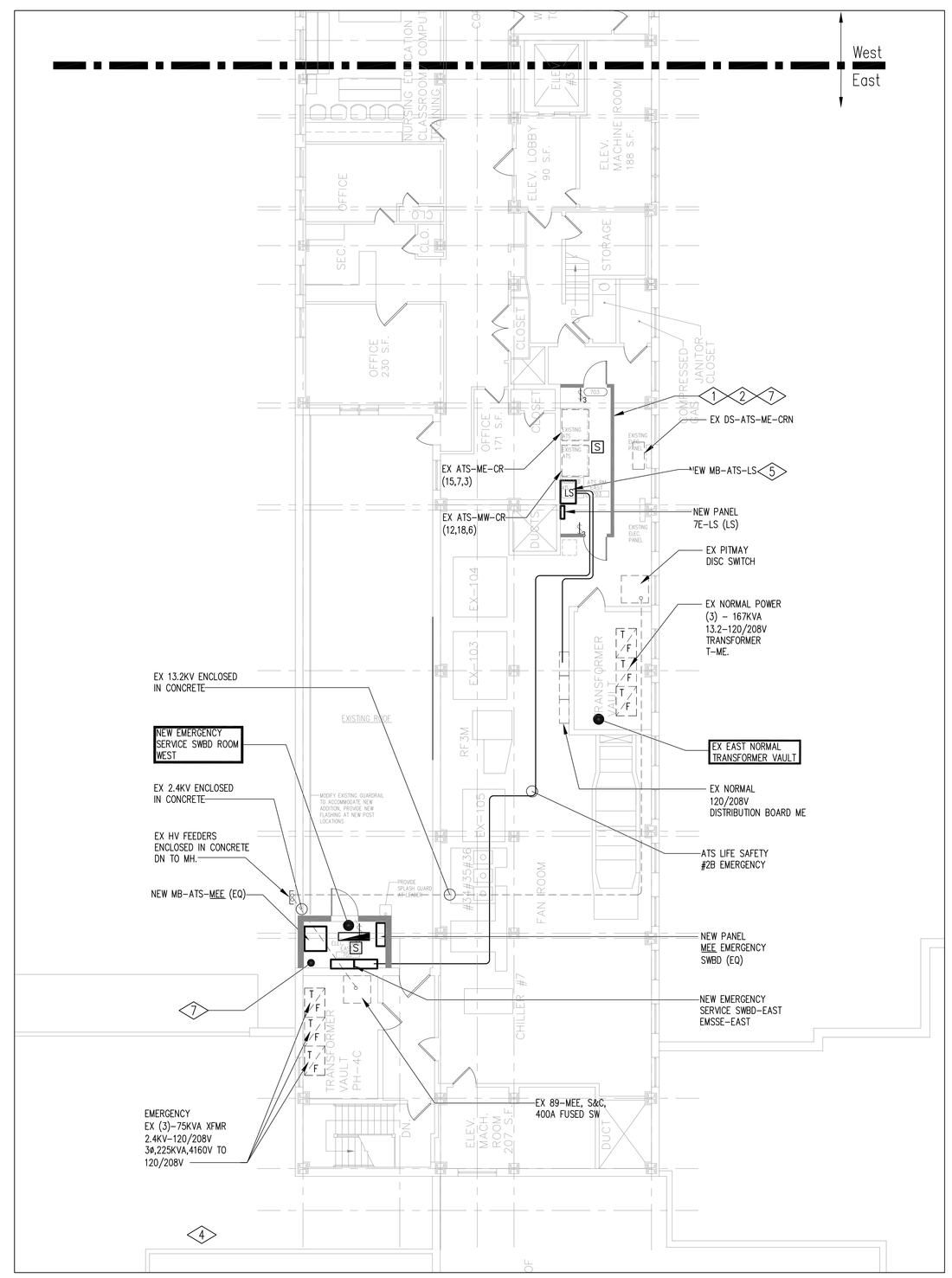
DRAWING SCALE	DRAWING FILE
1/16"=1'-0"	GSHE370MB
BINDING ORDER	FIRST ISSUE DATE 5/14/14

EXISTING CRITICAL ATS'S (2)

EXISTING ATS'S- 2B, 3B AND 4B

EXISTING PANEL MEE





SCOPE OF WORK NOTES:

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3. PROVIDE NEW SEPARATION WALL TO SEPARATE ATS'S (LIFE SAFETY, CRITICAL & EQUIPMENT) AND ASSOCIATED PANELS FROM MECH SPACE.

   ISSUES: PROPOSED LOCATION OF WALL HAS MANY HVAC PIPES. EITHER NEED TO MODIFY HVAC PIPING OR RELOCATE ATS-EQ & ASSOCIATED PANEL. THE SEPARATION WALL CAN MOVE CLOSE TOWARDS THE ATS'S OR PROVIDE A HUNG CEILING.
4. REFER TO DRAWING E506A-MB, SUBMIT ALTERNATE PRICES FOR ALT-MB#1 AND ALT-MB#2.
5. NEW MB-ATS-LS (#3B) AND PANEL
6. RE-ROUTE ALL NON-EQUIPMENT LOADS FROM EXISTING PANEL MWE TO CRITICAL OR LIFE SAFETY PANELS.
7. PROVIDE ONE CEILING MTD SMOKE DETECTOR & WIRE TO EXISTING SMOKE DETECTOR LOOP. PROVIDE ONE LIGHTING FIXTURE & CONTROL SWITCH SHOWN. WIRE NEW FIXTURE TO EXISTING EMERGENCY FIXTURE NEARBY.
8. PROVIDE ONE CEILING MTD SMOKE DETECTOR AND WIRE TO EXISTING SMOKE DETECTOR LOOP ON THE FLOOR. RELOCATE ONE EXISTING LIGHTING FIXTURE AND PROVIDE ONE NEW LIGHTING CONTROL TOGGLE SWITCH AND WIRE EXISTING FIXTURE TO NEW CONTROL SWITCH.

OUTSTANDING ITEMS:

1. EXISTING LOAD TYPE OF PANELS MEE & MWE NOT IDENTIFIED
2. LOCATION TWO NEW ATS (REPLACING EXISTING MB-ATS-LS AND MB-ATS-EQ) NOT DETERMI

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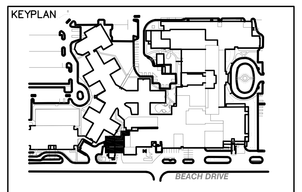

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

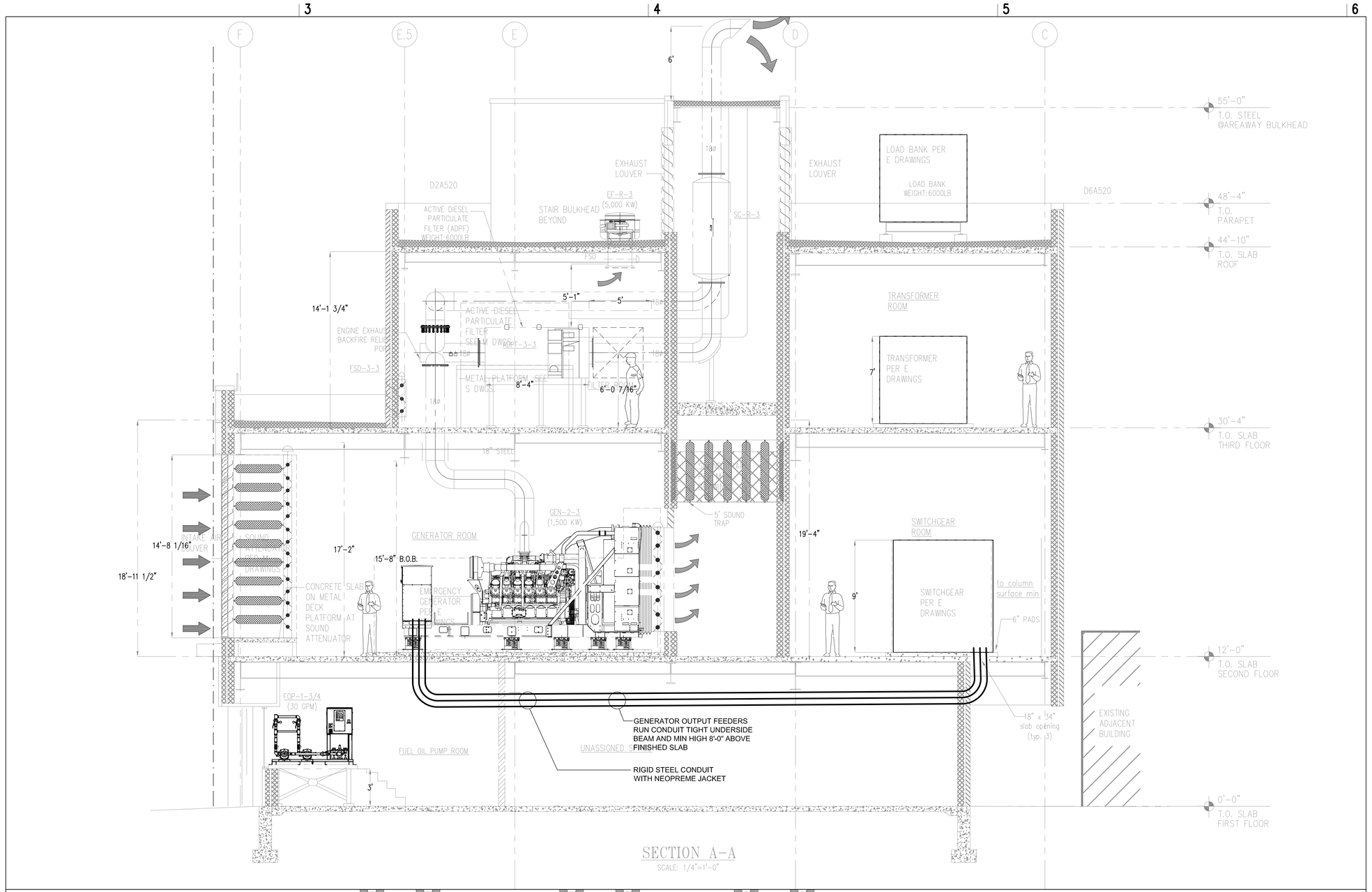
DRAWING NUMBER

E371-MB

DRAWING NAME

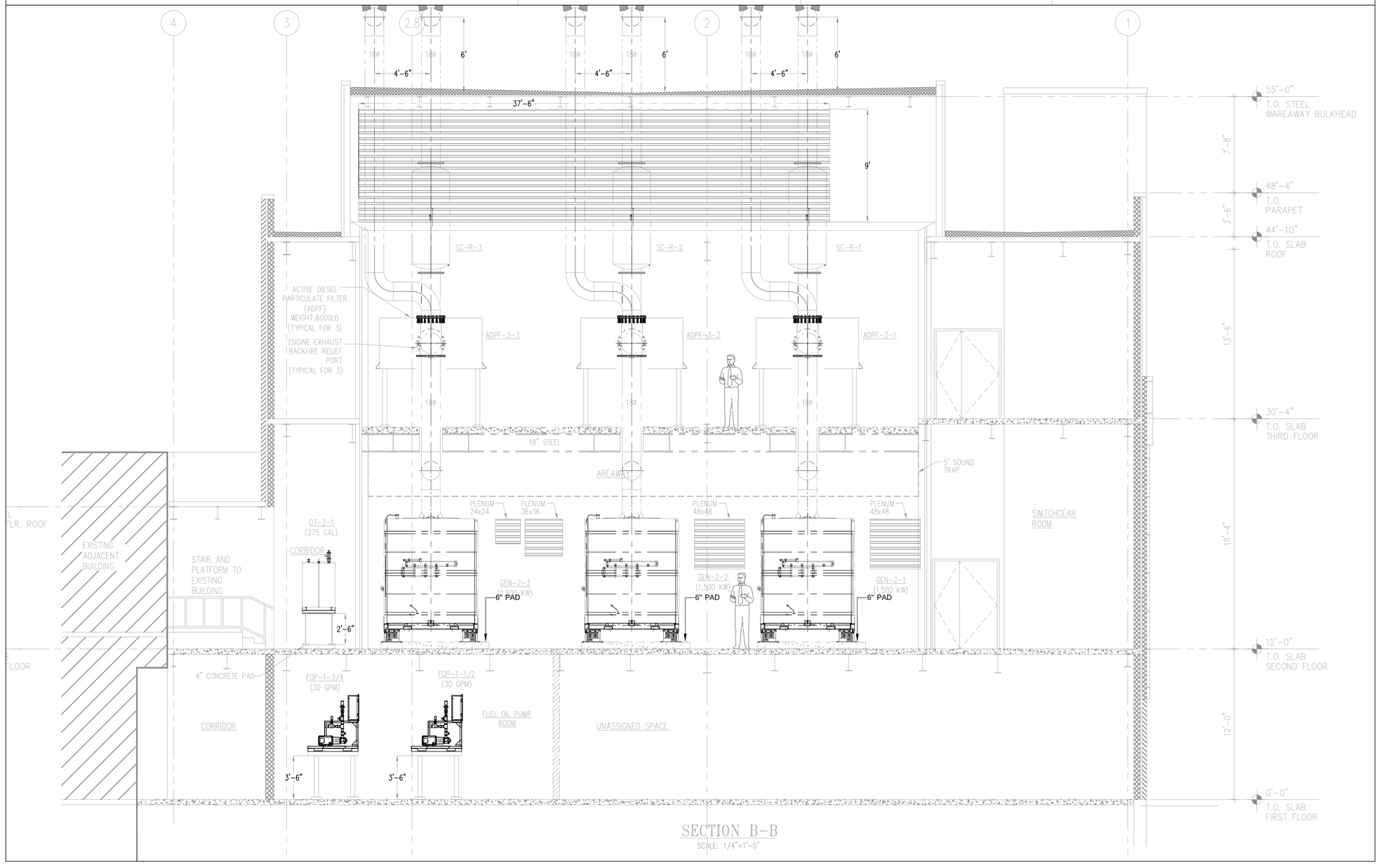
SEVENTH FLOOR PLAN
NEW WORK
PART 1 - MAIN BLDG

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE371
BINDING ORDER	FIRST ISSUE DATE 5/14/14



SECTION A-A

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



SECTION B-B

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

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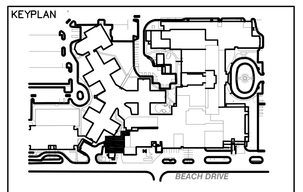

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

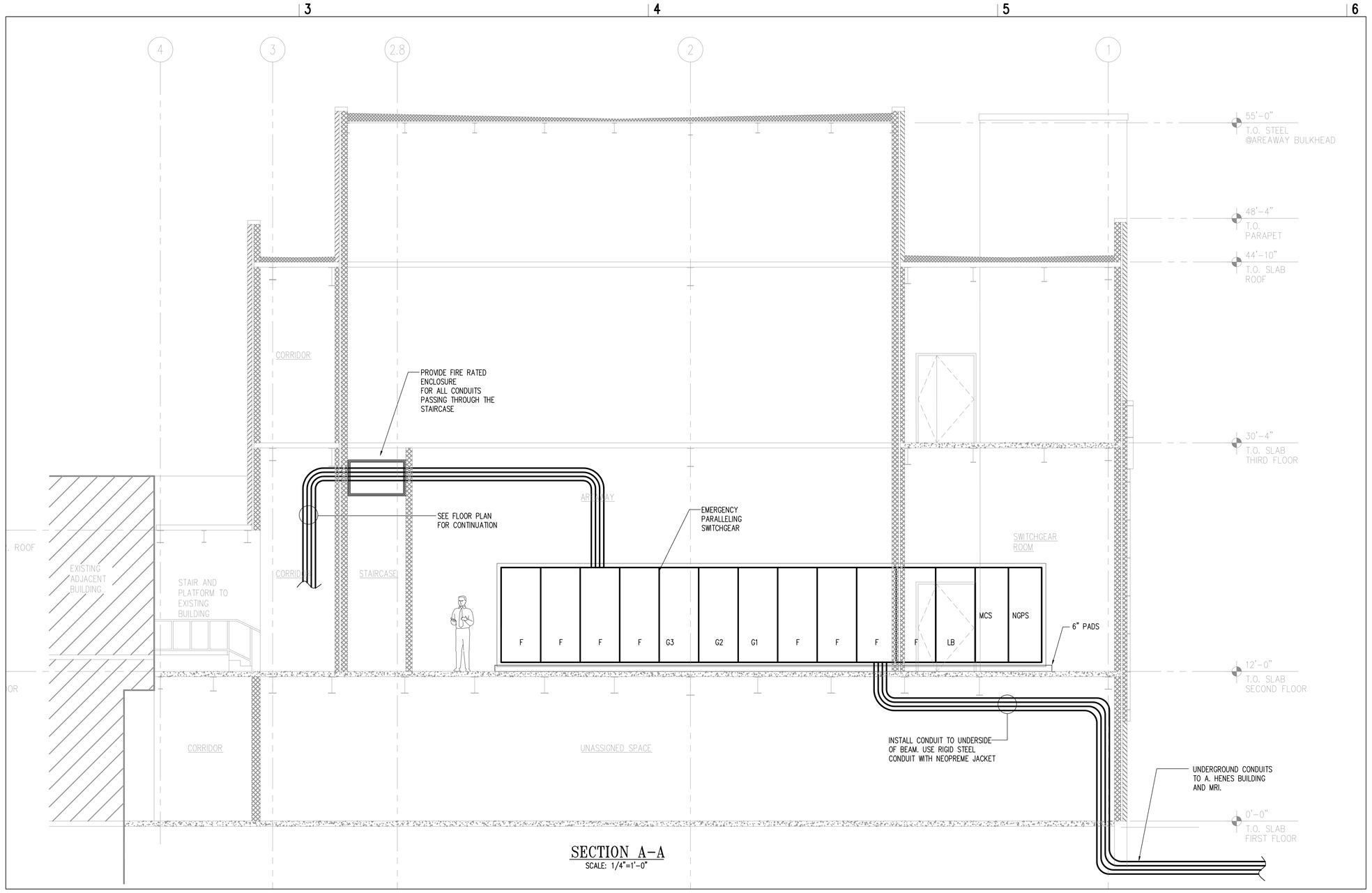
DRAWING NUMBER

E400-GB

DRAWING NAME

ELECTRICAL SECTIONS SHEET #1

DRAWING SCALE	DRAWING FILE
1/4"=1'-0"	E400
BINDING ORDER	FIRST ISSUE DATE



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

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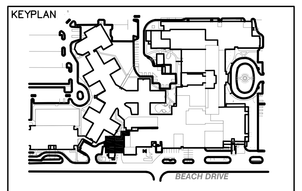

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PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

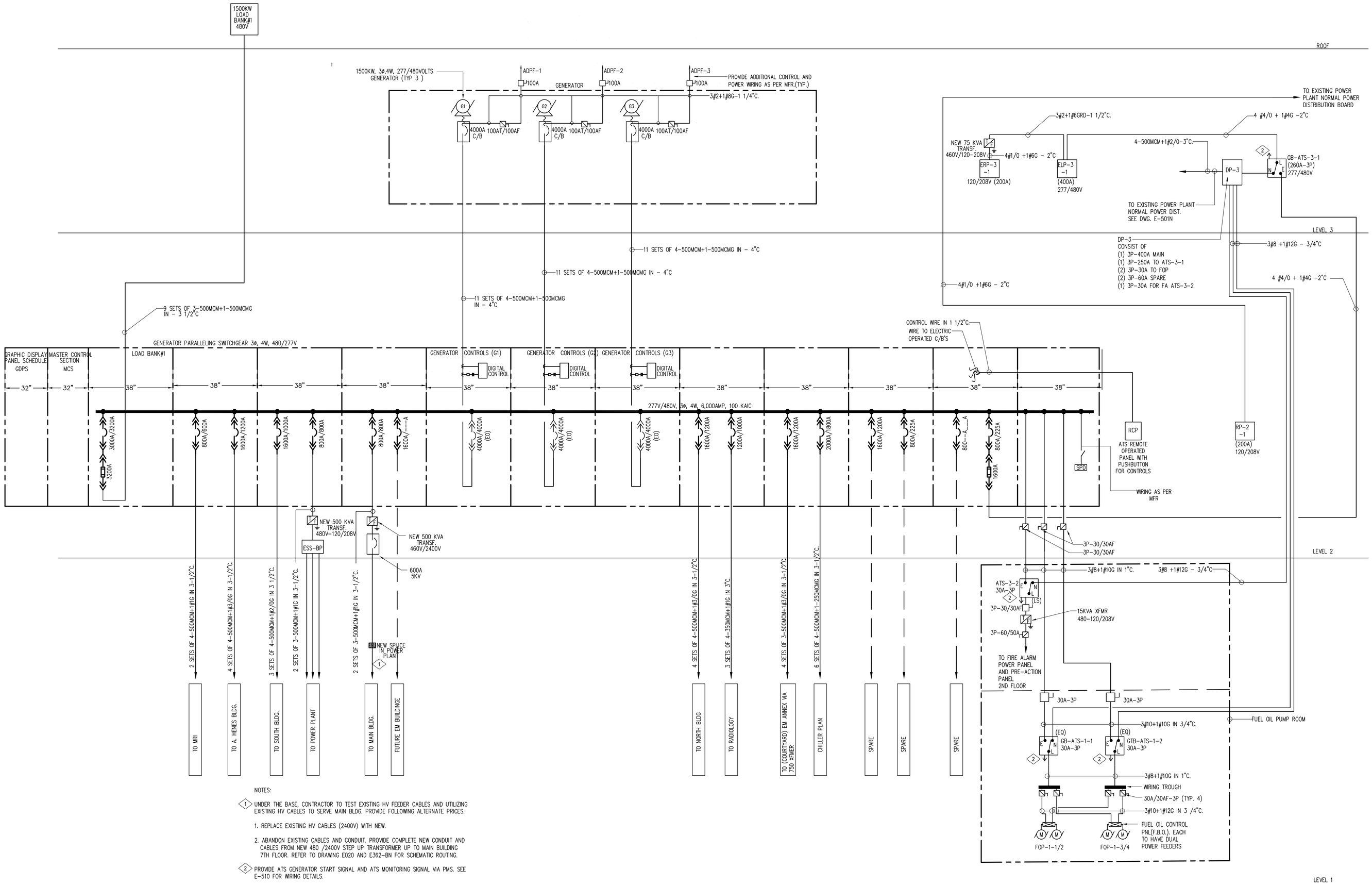
DRAWING NUMBER

E401-GB

DRAWING NAME

ELECTRICAL
SECTIONS
SHEET #2

DRAWING SCALE	DRAWING FILE
1/4"=1'-0"	E401
BINDING ORDER	FIRST ISSUE DATE



NOTES:

1. UNDER THE BASE, CONTRACTOR TO TEST EXISTING HV FEEDER CABLES AND UTILIZING EXISTING HV CABLES TO SERVE MAIN BLDG. PROVIDE FOLLOWING ALTERNATE PRICES.

   1. REPLACE EXISTING HV CABLES (2400V) WITH NEW.

   2. ABANDON EXISTING CABLES AND CONDUIT. PROVIDE COMPLETE NEW CONDUIT AND CABLES FROM NEW 480 /2400V STEP UP TRANSFORMER UP TO MAIN BUILDING 7TH FLOOR. REFER TO DRAWING E020 AND E362-BN FOR SCHEMATIC ROUTING.

2. PROVIDE ATS GENERATOR START SIGNAL AND ATS MONITORING SIGNAL VIA PMS. SEE E-510 FOR WIRING DETAILS.

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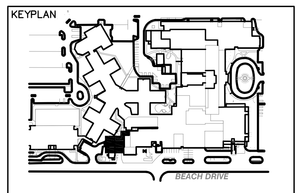

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

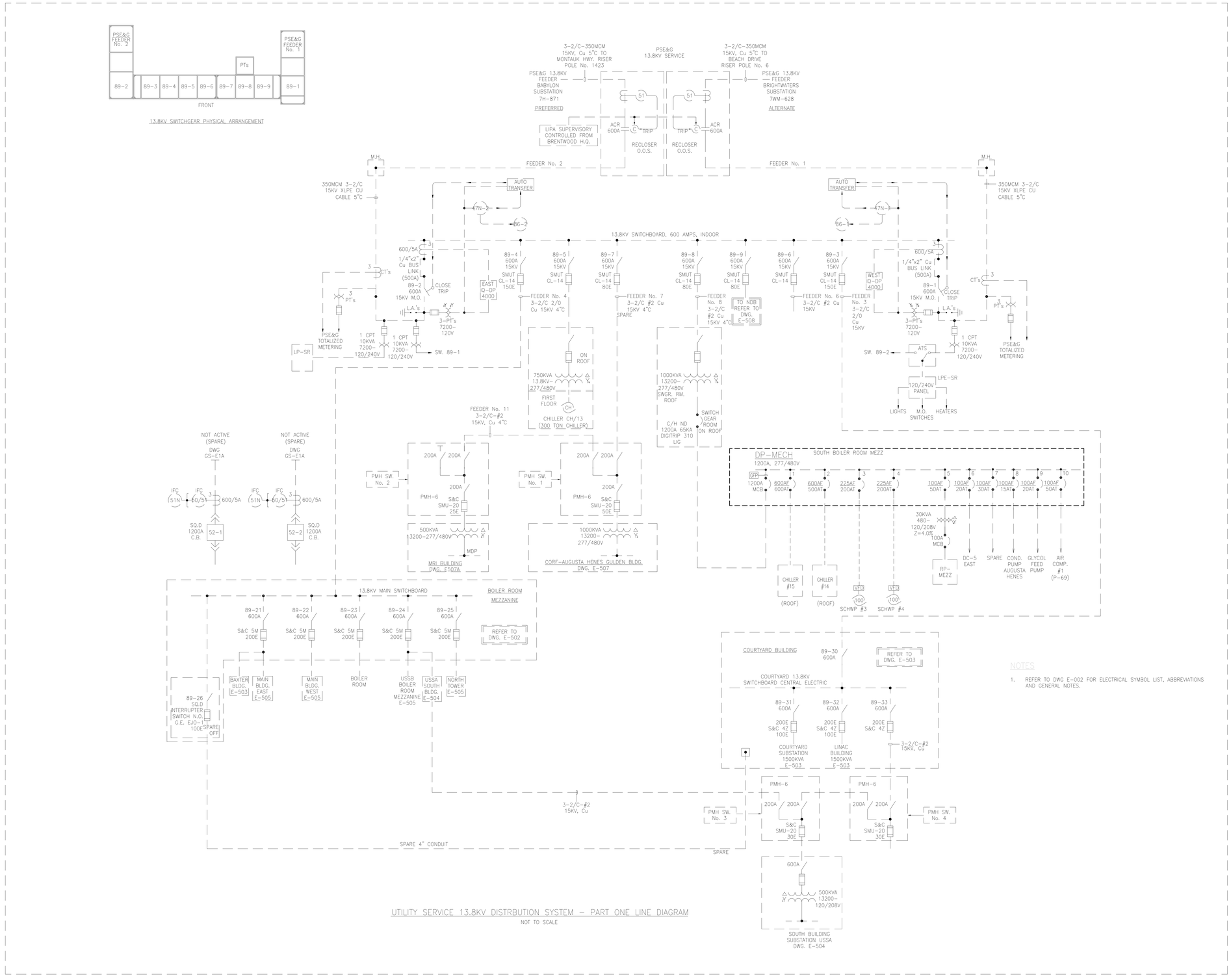
DRAWING NUMBER

E500-GB

DRAWING NAME

NEW EMERGENCY GENERATOR SYSTEM ELECTRICAL ONE LINE DIAGRAM

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE500
BINDING ORDER	FIRST ISSUE DATE 5/14/14



UTILITY SERVICE 13.8KV DISTRBUTION SYSTEM – PART ONE LINE DIAGRAM

NOT TO SCALE

NOTES

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

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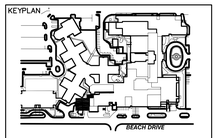

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REVISIONS	DATE	DESCRIPTION

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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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

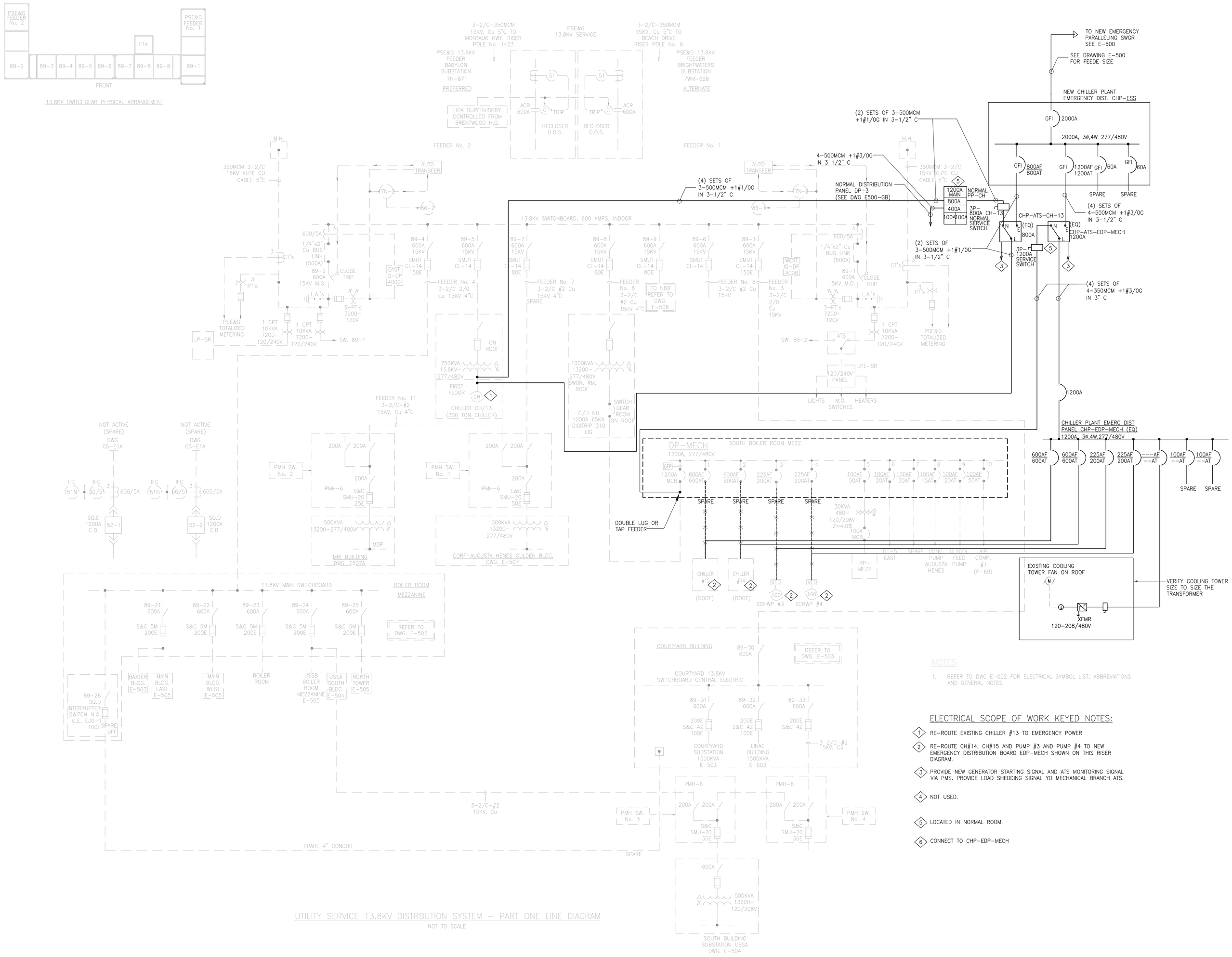
DRAWING NUMBER

E501

DRAWING NAME

ELECTRICAL ONE LINE DIAGRAM UTILITY 13.2KV SERVICE & CHILLER PLANT

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE501
BINDING ORDER	FIRST ISSUE DATE 5/14/14



NOTES

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

ELECTRICAL SCOPE OF WORK KEYED NOTES:

1. RE-ROUTE EXISTING CHILLER #13 TO EMERGENCY POWER
2. RE-ROUTE CH#14, CH#15 AND PUMP #3 AND PUMP #4 TO NEW EMERGENCY DISTRIBUTION BOARD EDP-MECH SHOWN ON THIS RISER DIAGRAM.
3. PROVIDE NEW GENERATOR STARTING SIGNAL AND ATS MONITORING SIGNAL VIA PMS. PROVIDE LOAD SHEDDING SIGNAL YO MECHANICAL BRANCH ATS.
4. NOT USED.
5. LOCATED IN NORMAL ROOM.
6. CONNECT TO CHP-EDP-MECH

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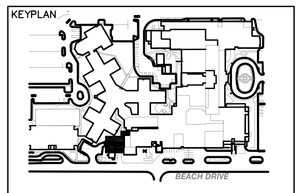

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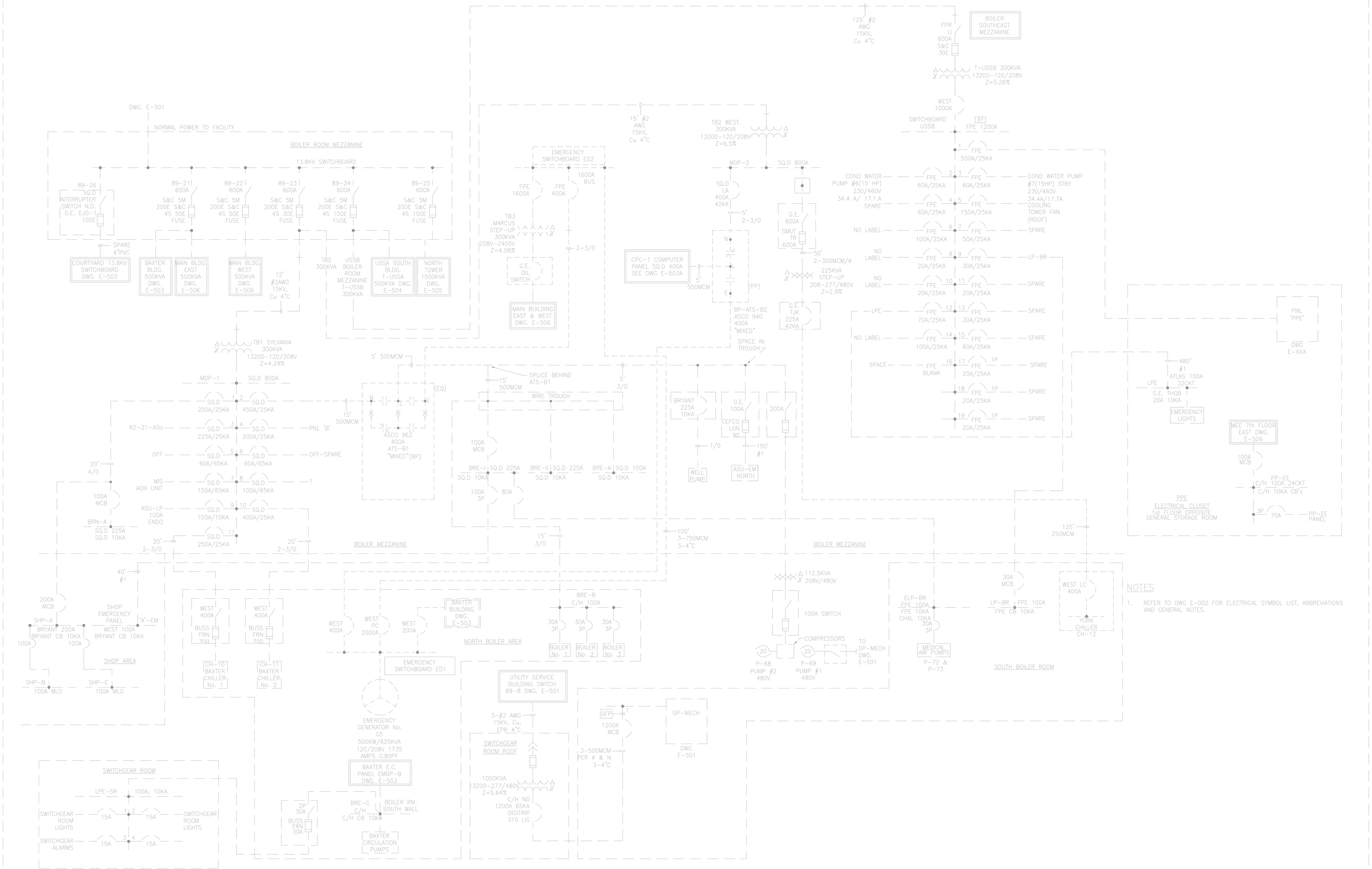
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E501N

DRAWING NAME
ELECTRICAL ONE LINE UTILITY 13.2KV AND CHILLER PLANT (NEW WORK)

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE501N
BINDING ORDER	FIRST ISSUE DATE 12/4/14



NOTES

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

BOILER MEZZANINE BOILER ROOM SHOP AREAS– PART ONE LINE DIAGRAM

NOT TO SCALE

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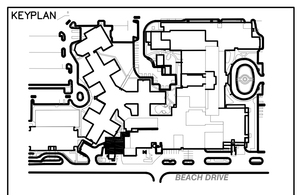

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

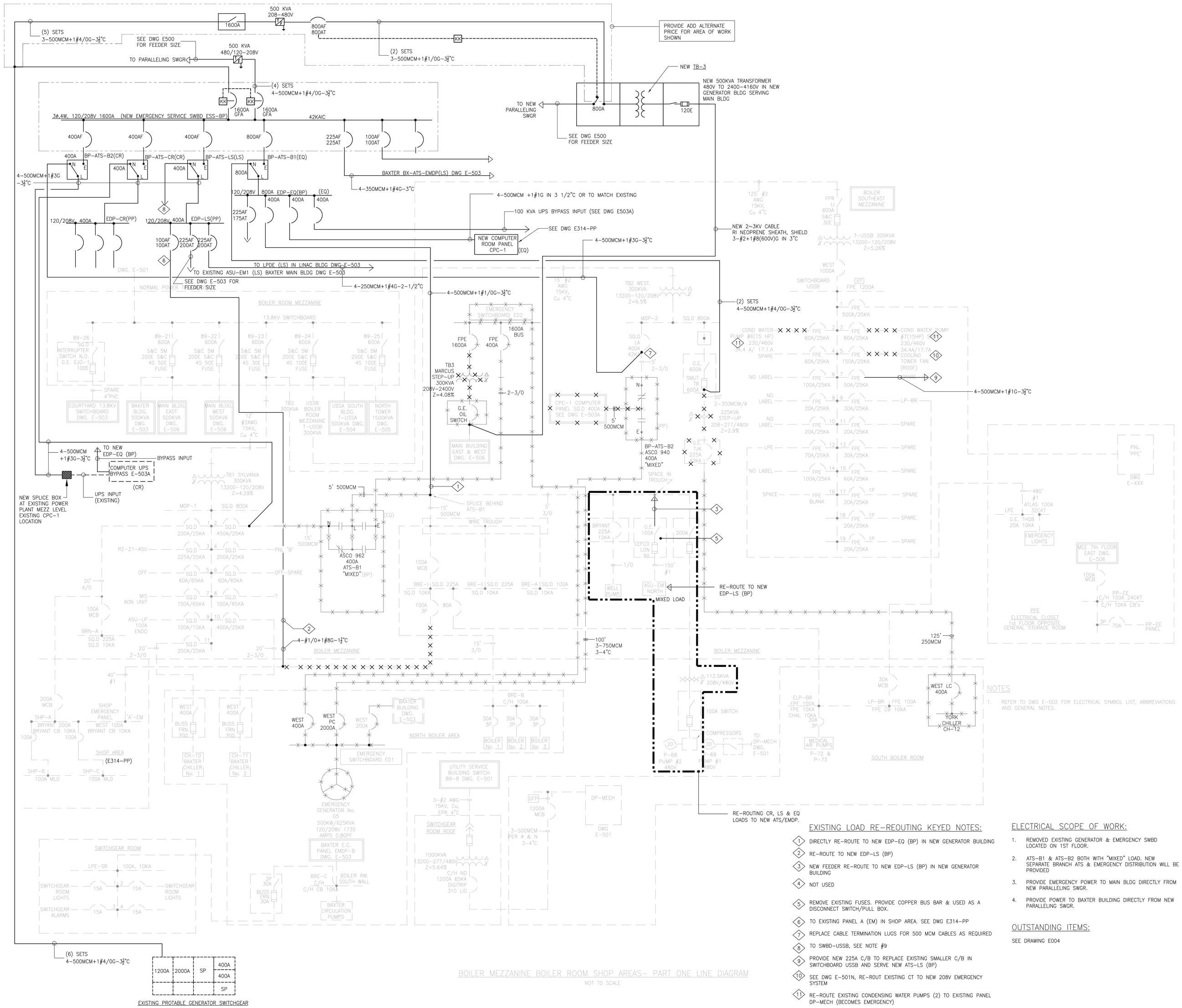
DRAWING NUMBER

E502

DRAWING NAME

ELECTRICAL ONE LINE BOILER ROOM MEZZANINE (EXISTING GENERATOR G5)

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE502
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



BOILER MEZZANINE BOILER ROOM SHOP AREAS– PART ONE LINE DIAGRAM

NOT TO SCALE

NOTES

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

EXISTING LOAD RE-REOUTING KEYED NOTES:

1. DIRECTLY RE-ROUTE TO NEW EDP-EQ (BP) IN NEW GENERATOR BUILDING
2. RE-ROUTE TO NEW EDP-LS (BP)
3. NEW FEEDER RE-ROUTE TO NEW EDP-LS (BP) IN NEW GENERATOR BUILDING
4. NOT USED
5. REMOVE EXISTING FUSES. PROVIDE COPPER BUS BAR & USED AS A DISCONNECT SWITCH/PULL BOX.
6. TO EXISTING PANEL A (EM) IN SHOP AREA. SEE DWG E314-PP
7. REPLACE CABLE TERMINATION LUGS FOR 500 MCM CABLES AS REQUIRED
8. TO SWBD-USSB, SEE NOTE #9
9. PROVIDE NEW 225A C/B TO REPLACE EXISTING SMALLER C/B IN SWITCHBOARD USSB AND SERVE NEW ATS-LS (BP)
10. SEE DWG E-501N, RE-ROUT EXISTING CT TO NEW 208V EMERGENCY SYSTEM
11. RE-ROUTE EXISTING CONDENSING WATER PUMPS (2) TO EXISTING PANEL DP-MECH (BECOMES EMERGENCY)

ELECTRICAL SCOPE OF WORK:

1. REMOVED EXISTING GENERATOR & EMERGENCY SWBD LOCATED ON 1ST FLOOR.
2. ATS-B1 & ATS-B2 BOTH WITH "MIXED" LOAD. NEW SEPARATE BRANCH ATS & EMERGENCY DISTRIBUTION WILL BE PROVIDED
3. PROVIDE EMERGENCY POWER TO MAIN BLDG DIRECTLY FROM NEW PARALLELING SWGR.
4. PROVIDE POWER TO BAXTER BUILDING DIRECTLY FROM NEW PARALLELING SWGR.

OUTSTANDING ITEMS:

SEE DRAWING E004

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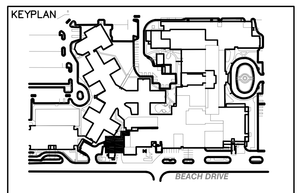

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2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT

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PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

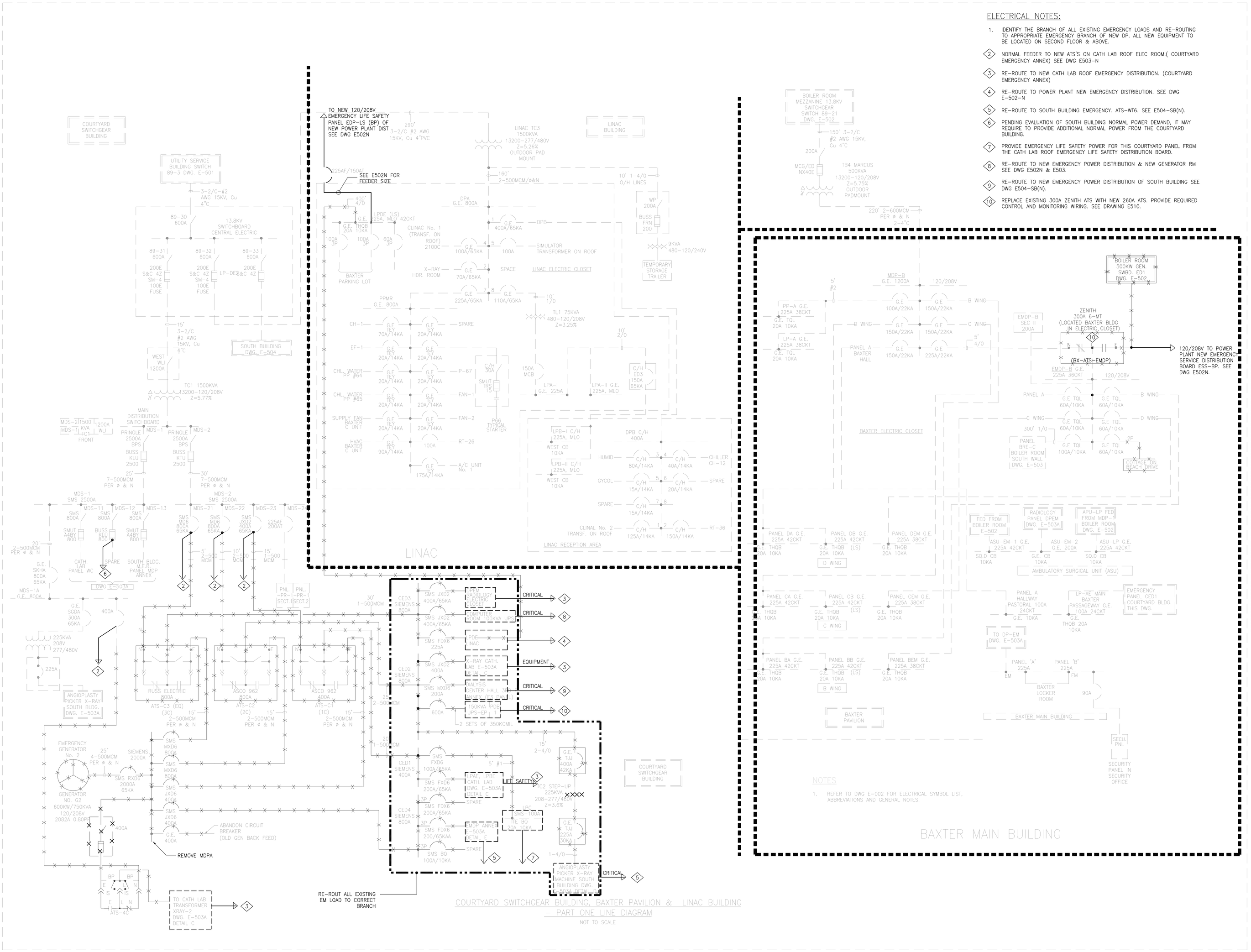
DRAWING NUMBER

E502N

DRAWING NAME

ELECTRICAL ONE LINE
BOILER ROOM MEZZANINE
(NEW WORK GENERATOR G5)

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE502
BINDING ORDER	FIRST ISSUE DATE 5/14/14



ELECTRICAL NOTES:

1. IDENTIFY THE BRANCH OF ALL EXISTING EMERGENCY LOADS AND RE-ROUTING TO APPROPRIATE EMERGENCY BRANCH OF NEW DP. ALL NEW EQUIPMENT TO BE LOCATED ON SECOND FLOOR & ABOVE.
2. NORMAL FEEDER TO NEW ATS'S ON CATH LAB ROOF ELEC ROOM.(COURTYARD EMERGENCY ANNEX) SEE DWG E503-N
3. RE-ROUTE TO NEW CATH LAB ROOF EMERGENCY DISTRIBUTION. (COURTYARD EMERGENCY ANNEX)
4. RE-ROUTE TO POWER PLANT NEW EMERGENCY DISTRIBUTION. SEE DWG E-502-N
5. RE-ROUTE TO SOUTH BUILDING EMERGENCY. ATS-WT6. SEE E504-SB(N).
6. PENDING EVALUATION OF SOUTH BUILDING NORMAL POWER DEMAND, IT MAY REQUIRE TO PROVIDE ADDITIONAL NORMAL POWER FROM THE COURTYARD BUILDING.
7. PROVIDE EMERGENCY LIFE SAFETY POWER FOR THIS COURTYARD PANEL FROM THE CATH LAB ROOF EMERGENCY LIFE SAFETY DISTRIBUTION BOARD.
8. RE-ROUTE TO NEW EMERGENCY POWER DISTRIBUTION & NEW GENERATOR RM SEE DWG E502N & E503.
9. RE-ROUTE TO NEW EMERGENCY POWER DISTRIBUTION OF SOUTH BUILDING SEE DWG E504-SB(N).
10. REPLACE EXISTING 300A ZENITH ATS WITH NEW 260A ATS. PROVIDE REQUIRED CONTROL AND MONITORING WIRING. SEE DRAWING E510.

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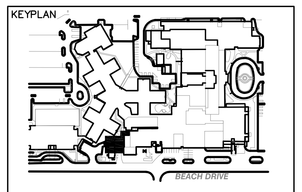

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PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

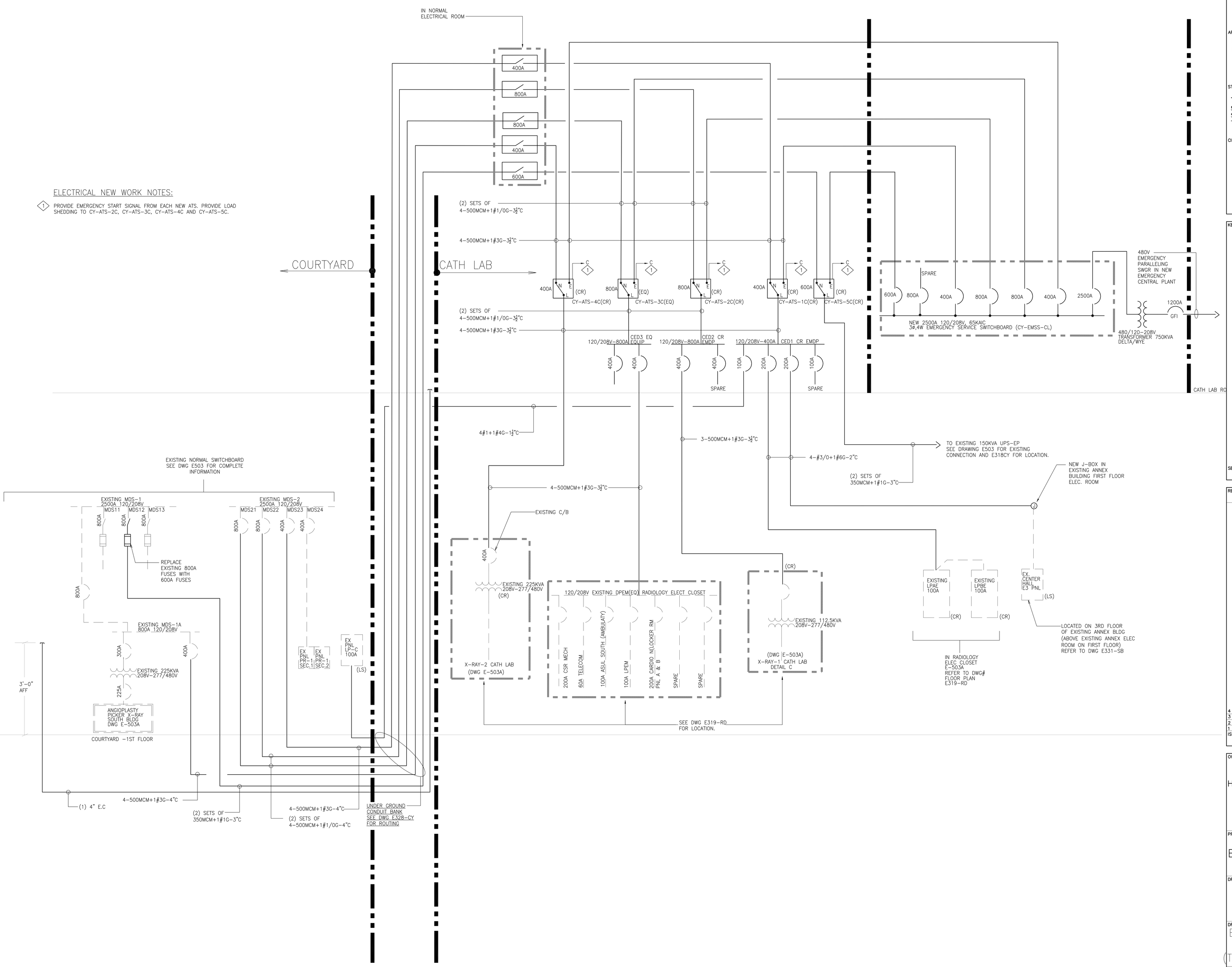
DRAWING NUMBER
E503

DRAWING NAME
ELECTRICAL ONE LINE DIAG. BAXTER PAVILLION & LINAC BLDG (EX.COURTYD GEN.G2)

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE503
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

ELECTRICAL NEW WORK NOTES:

1. PROVIDE EMERGENCY START SIGNAL FROM EACH NEW ATS. PROVIDE LOAD SHEDDING TO CY-ATS-2C, CY-ATS-3C, CY-ATS-4C AND CY-ATS-5C.



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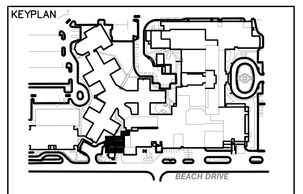

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E503N

DRAWING NAME

ELECTRICAL ONE LINE DIAG. CATH LAB ROOF SYSTEM (TO REPLACE COUTYARD G2)

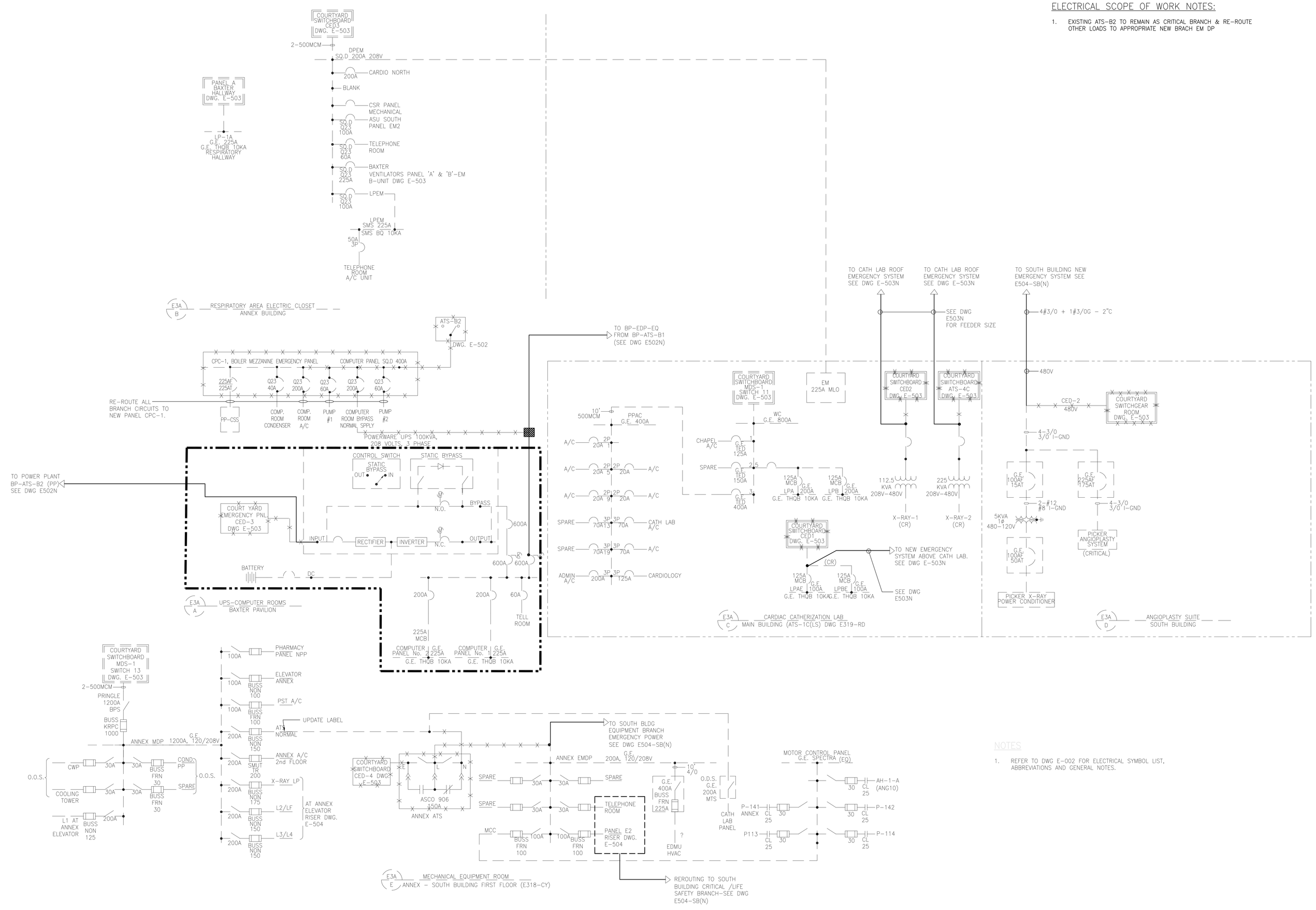
DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE503
BINDING ORDER	FIRST ISSUE DATE 5/14/14

OUTSTANDING ITEMS:

1. PANEL PP-CSS NOT BEING IDENTIFIED ON FLOOR PLAN.
2. IS PANEL PP-CSS LIFE SAFETY OR EQUIPMENT?

ELECTRICAL SCOPE OF WORK NOTES:

1. EXISTING ATS-B2 TO REMAIN AS CRITICAL BRANCH & RE-ROUTE OTHER LOADS TO APPROPRIATE NEW BRACH EM DP



COMPUTER ROOM, CATH LAB, RESPIRATORY, ANNEX M.E.R., AND EMERGENCY GENERATOR INTERCONNECTIONS – PART ONE LINE DIAGRAM

NOT TO SCALE

NOTES

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

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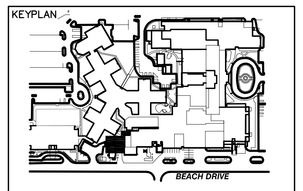

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

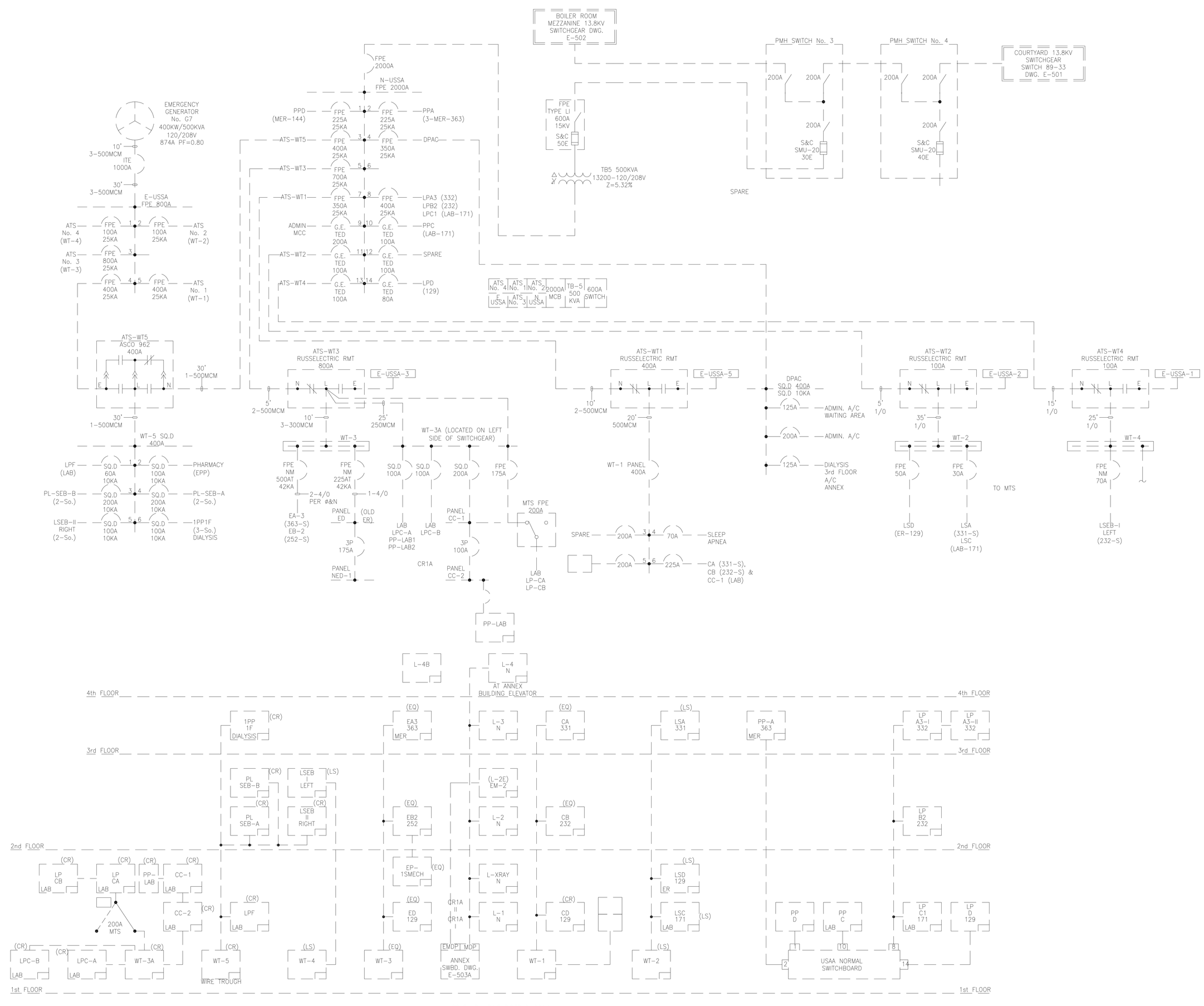
DRAWING NUMBER

E503A

DRAWING NAME

ELECTRICAL ONE LINE DIAG. LAB, RESPIRATORY & ANNEX (EXISTING COUTYARD G2)

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE503A
BINDING ORDER	FIRST ISSUE DATE 5/14/14



SOUTH BUILDING AND ANNEX NORMAL AND EMERGENCY
ONE LINE DIAGRAM
NOT TO SCALE

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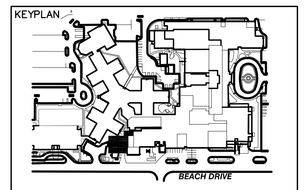

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OWNER

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PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

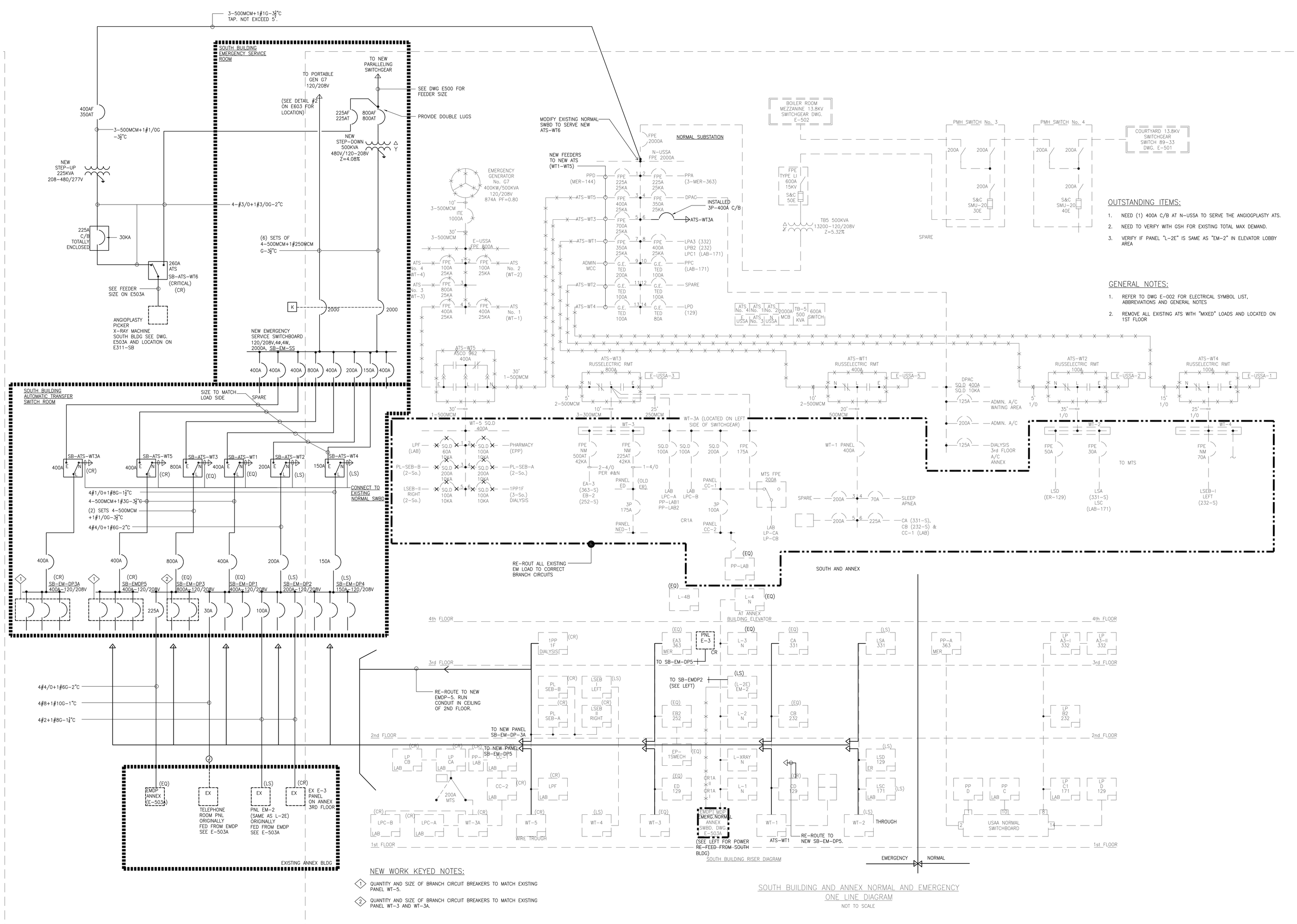
DRAWING NUMBER

E504-SB

DRAWING NAME

ELECTRICAL ONE LINE
SOUTH BLDG (EX.
SOUTH GENERATOR G7)

DRAWING SCALE	DRAWING FILE
NONE	GSHE504SB
BINDING ORDER	FIRST ISSUE DATE
	5/14/14



OUTSTANDING ITEMS:

1. NEED (1) 400A C/B AT N-USSA TO SERVE THE ANGIOGPLASTY ATS.
2. NEED TO VERIFY WITH GSH FOR EXISTING TOTAL MAX DEMAND.
3. VERIFY IF PANEL "L-2E" IS SAME AS "EM-2" IN ELEVATOR LOBBY AREA

GENERAL NOTES:

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES
2. REMOVE ALL EXISTING ATS WITH "MIXED" LOADS AND LOCATED ON 1ST FLOOR

NEW WORK KEYED NOTES:

1. QUANTITY AND SIZE OF BRANCH CIRCUIT BREAKERS TO MATCH EXISTING PANEL WT-5.
2. QUANTITY AND SIZE OF BRANCH CIRCUIT BREAKERS TO MATCH EXISTING PANEL WT-3 AND WT-3A.

SOUTH BUILDING AND ANNEX NORMAL AND EMERGENCY ONE LINE DIAGRAM

NOT TO SCALE

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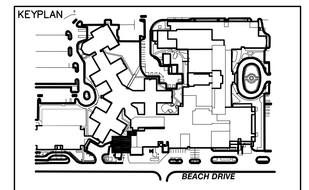
KEYPLAN



SEAL

REVISIONS

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

E504-SB(N)

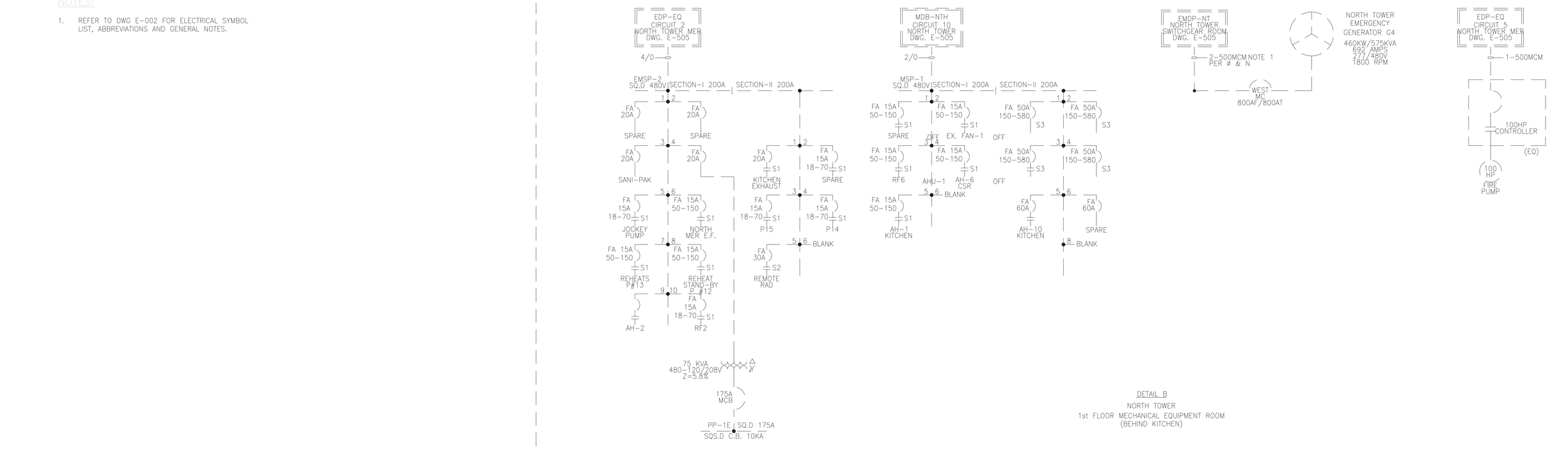
DRAWING NAME

ELECTRICAL ONE LINE SOUTH BLDG (DEMO & NEW SOUTH GENERATOR G7)

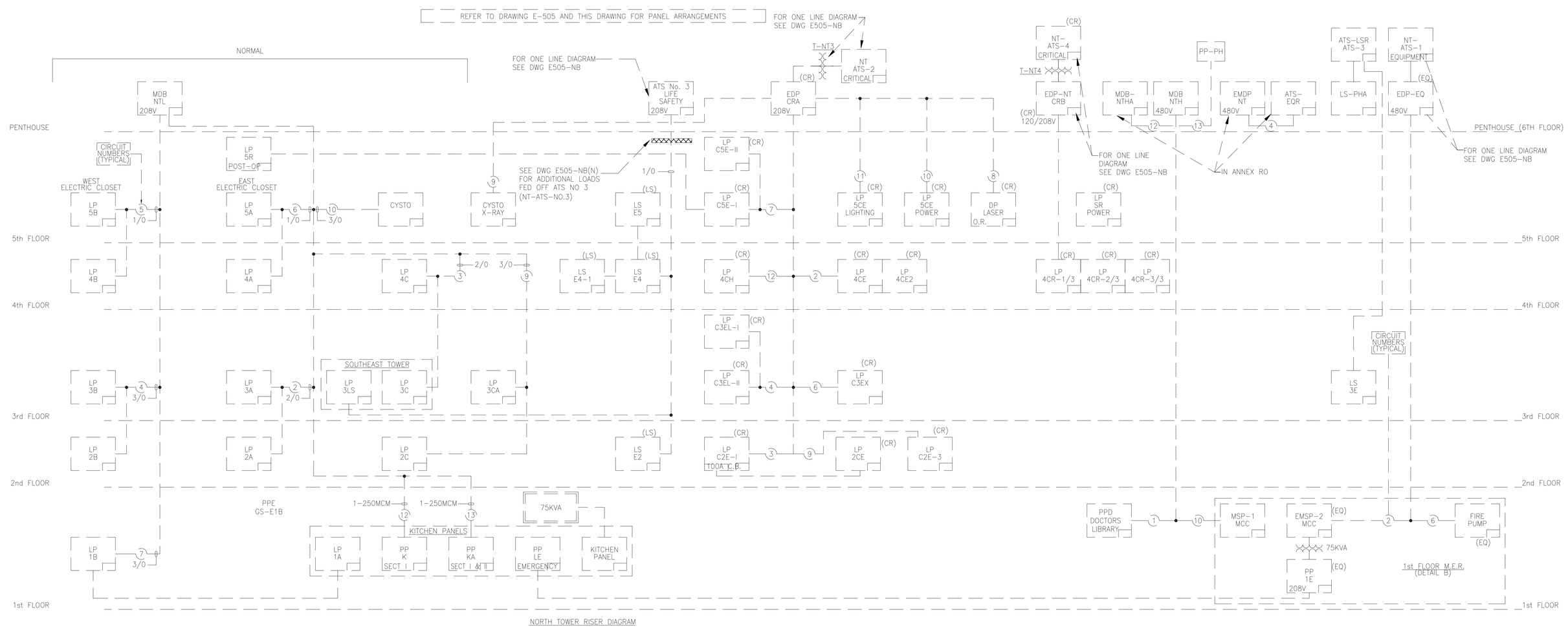
DRAWING SCALE	DRAWING FILE
NONE	GSHE504SBN
BINDING ORDER	FIRST ISSUE DATE
	5/14/14

NOTES:

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.



DETAIL B
NORTH TOWER
1st FLOOR MECHANICAL EQUIPMENT ROOM
(BEHIND KITCHEN)



NORTH TOWER RISER DIAGRAM

NORTH TOWER AND MAJOR EQUIPMENT ROOMS
– PART ONE LINE DIAGRAM
NOT TO SCALE

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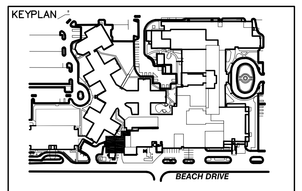

SEAL

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OWNER

GOOD SAMARITAN
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1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

DRAWING NUMBER

E505A-NB

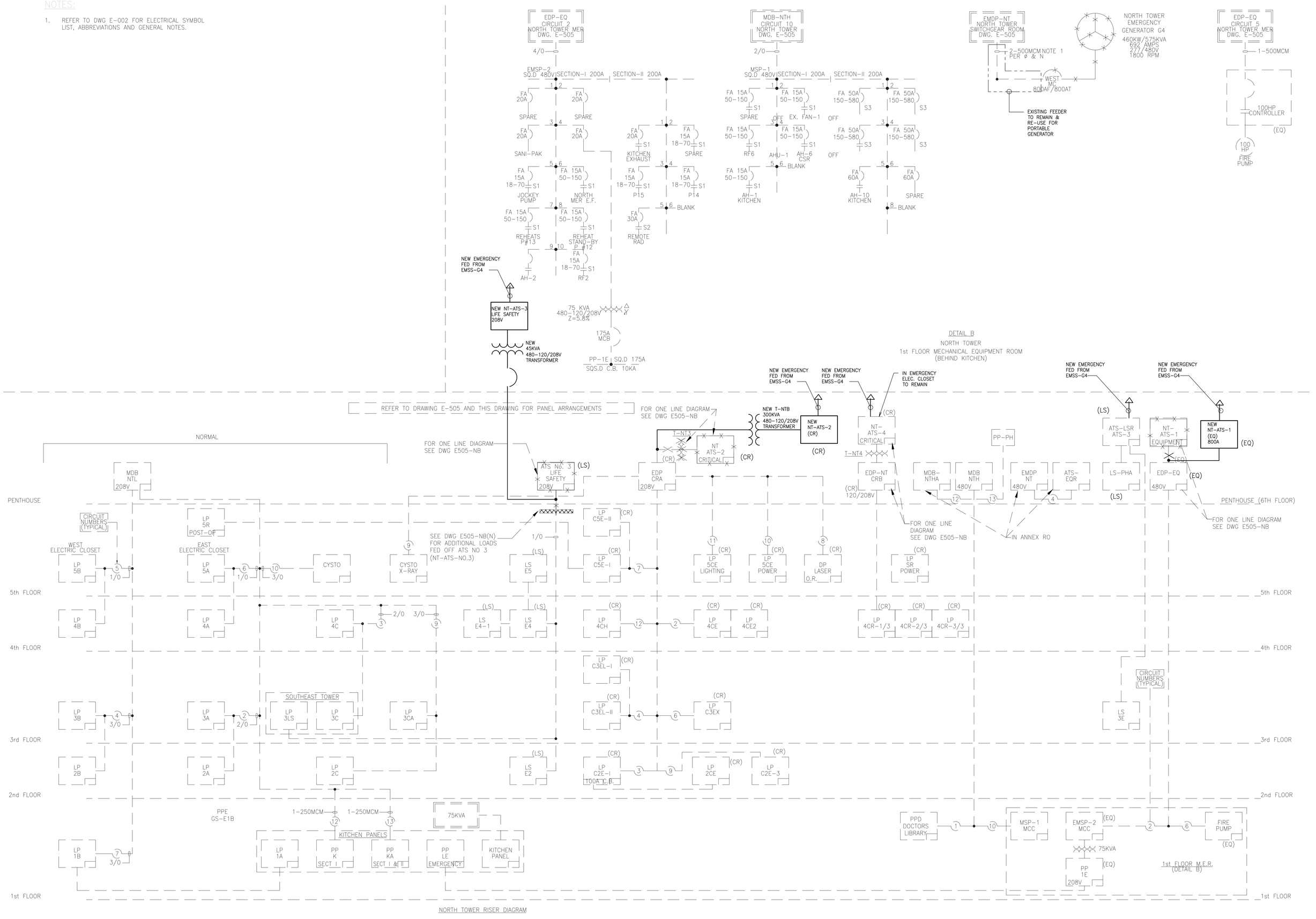
DRAWING NAME

ELECTRICAL ONE LINE
DIAG. NORTH TOWER
(EX. NORTH TOWER GEN. G4)

DRAWING SCALE	DRAWING FILE
NONE	GSHE505ANB
BINDING ORDER	FIRST ISSUE DATE 04/28/14

NOTES:

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.



NORTH TOWER AND MAJOR EQUIPMENT ROOMS
– PART ONE LINE DIAGRAM
NOT TO SCALE

MEP ENGINEER

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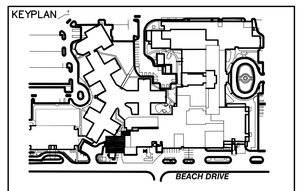

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ISSUE	DATE	DESCRIPTION

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

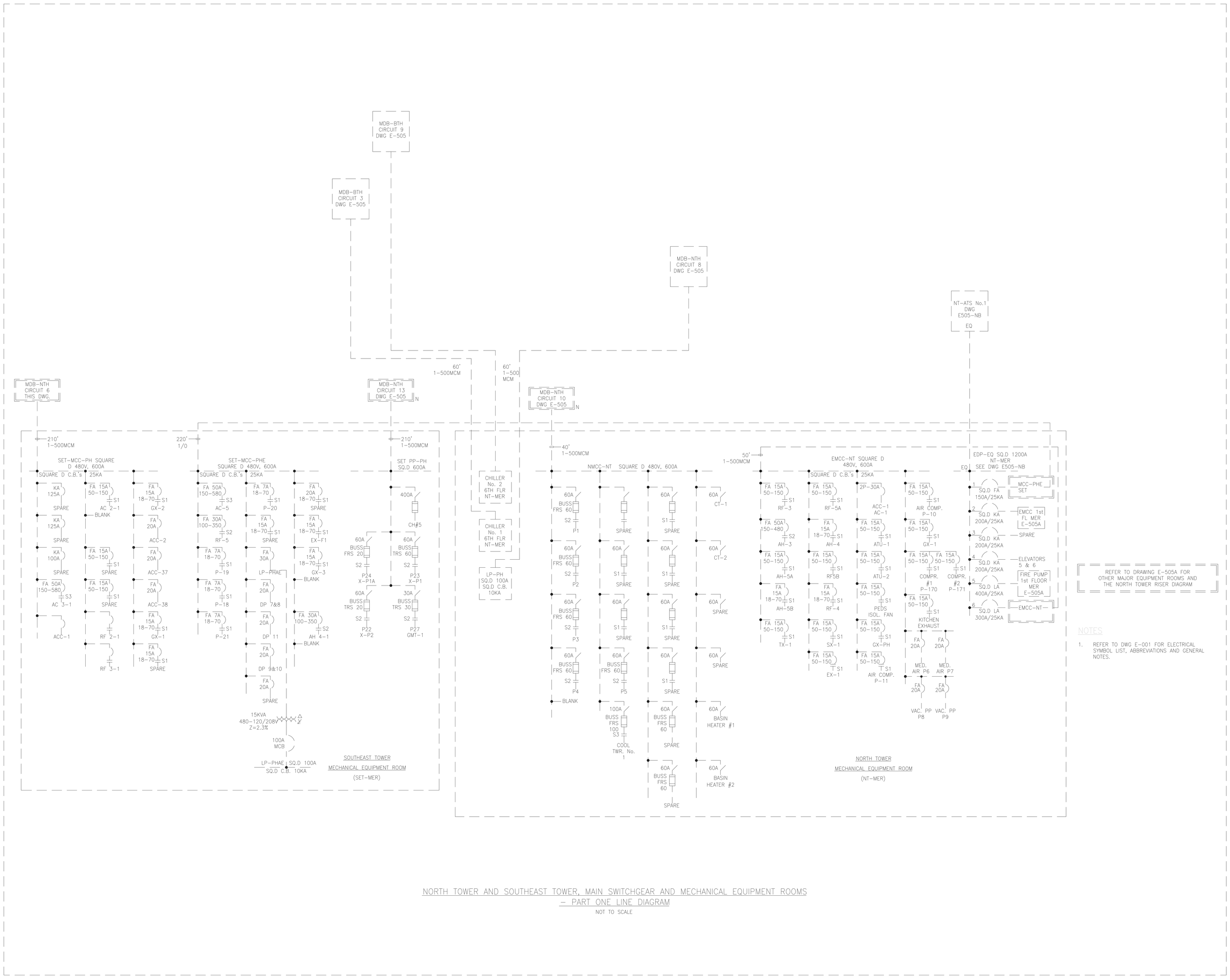
DRAWING NUMBER

E505A-NB(N)

DRAWING NAME

ELECTRICAL ONE LINE DIAG. NORTH TOWER (NEW PROP N.TOWER G4)

DRAWING SCALE	DRAWING FILE
NONE	GSHE505ANBN
BINDING ORDER	FIRST ISSUE DATE
	04/28/14



NORTH TOWER AND SOUTHEAST TOWER, MAIN SWITCHGEAR AND MECHANICAL EQUIPMENT ROOMS
– PART ONE LINE DIAGRAM
NOT TO SCALE

REFER TO DRAWING E-505A FOR OTHER MAJOR EQUIPMENT ROOMS AND THE NORTH TOWER RISER DIAGRAM

NOTES

1. REFER TO DWG E-001 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

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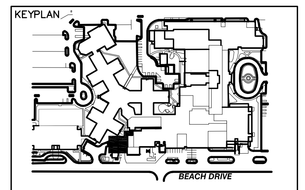

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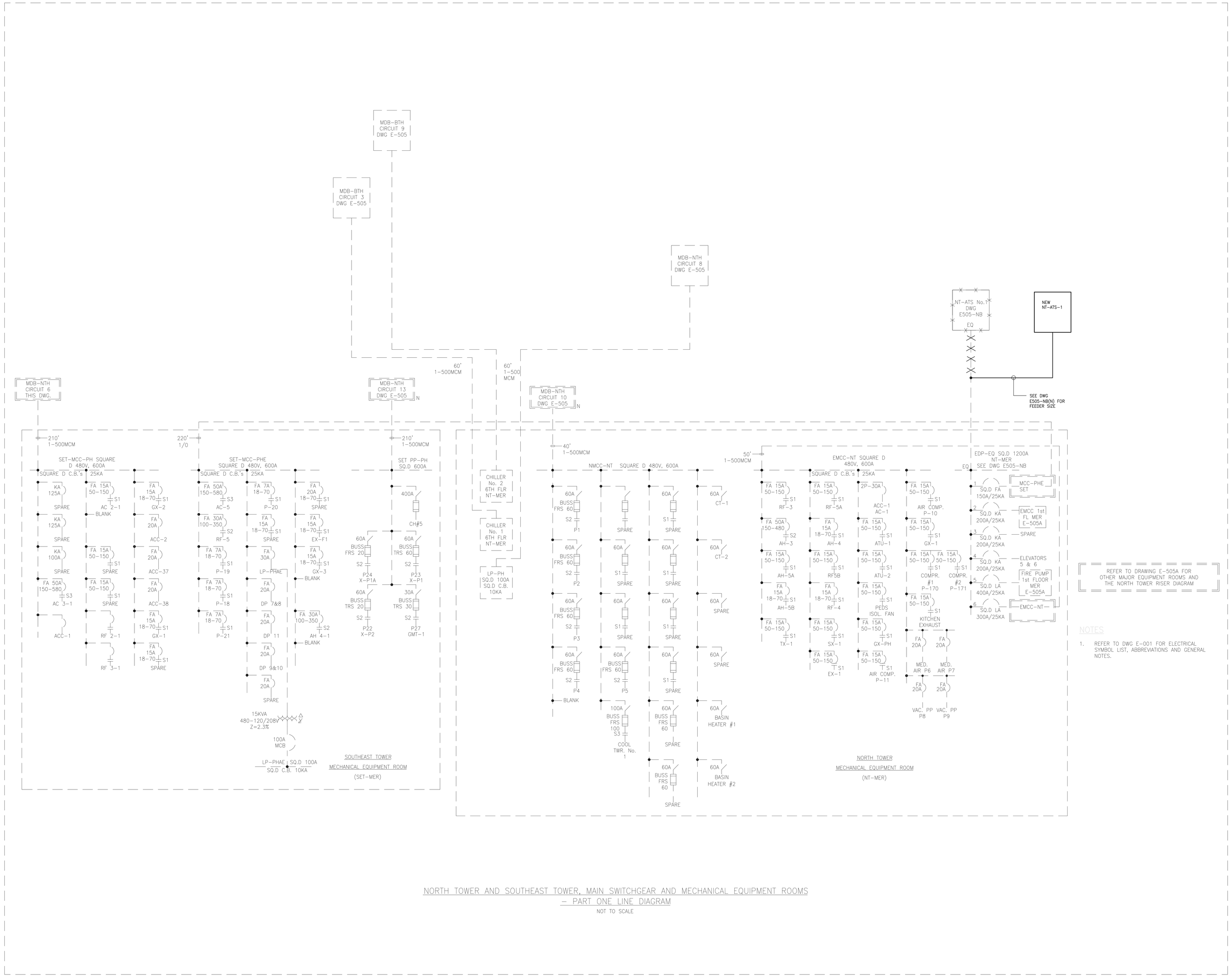
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E505B-NB

DRAWING NAME
ELECTRICAL ONE LINE DIAG. NORTH TOWER (EX. NORTH & SOUTHEAST)

DRAWING SCALE	DRAWING FILE
NONE	GSHE505BNB
BINDING ORDER	FIRST ISSUE DATE 04/28/14



NORTH TOWER AND SOUTHEAST TOWER, MAIN SWITCHGEAR AND MECHANICAL EQUIPMENT ROOMS
– PART ONE LINE DIAGRAM
NOT TO SCALE

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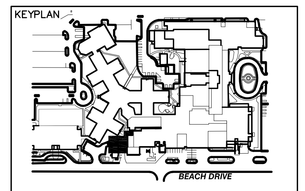

SEAL

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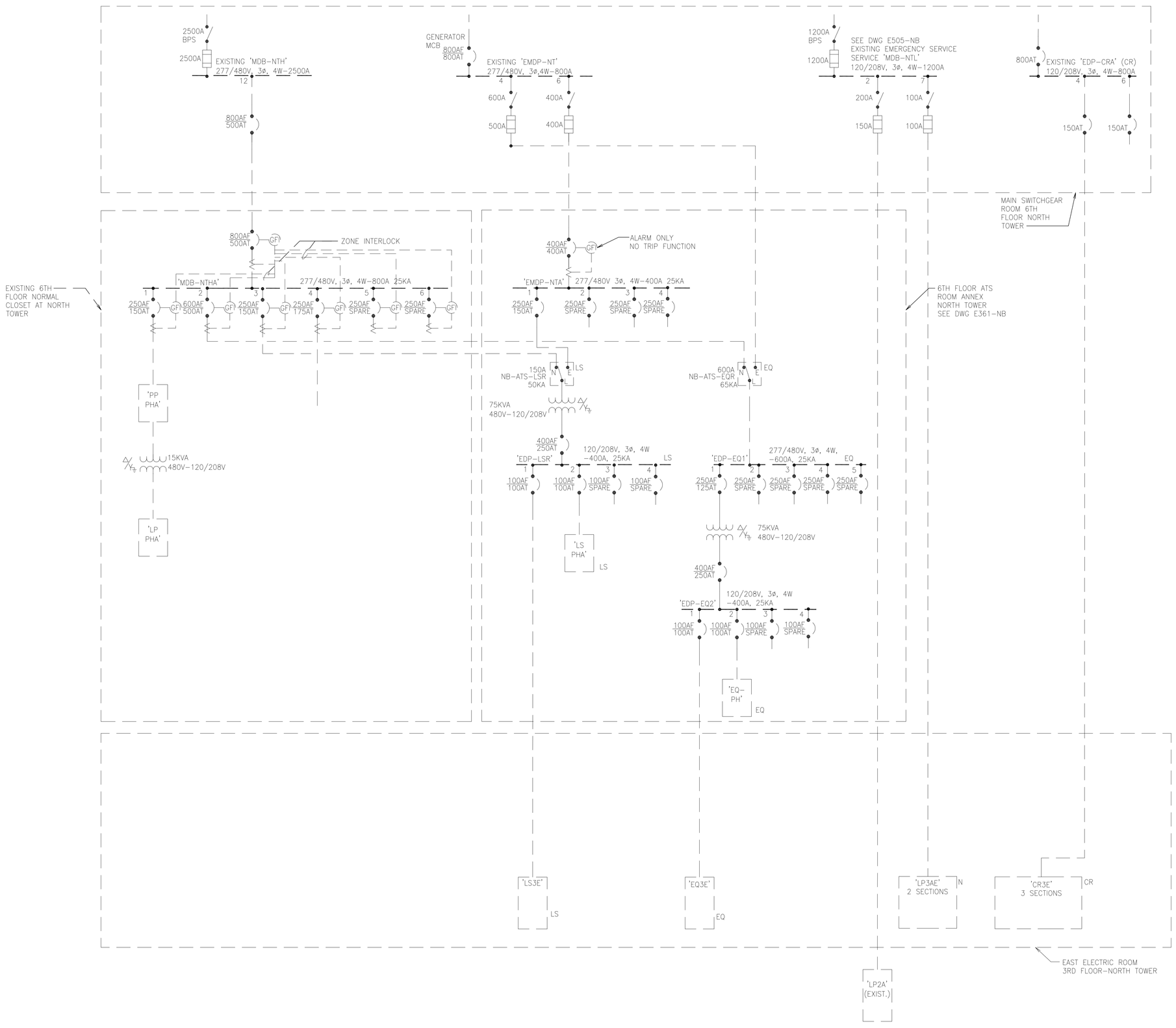
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E505B-NB(N)

DRAWING NAME
ELECTRICAL ONE LINE DIAG. NORTH TOWER (EX. NORTH & SOUTHEAST)

DRAWING SCALE	DRAWING FILE
NONE	GSHE505BNBN
BINDING ORDER	FIRST ISSUE DATE 04/28/14



NORTH TOWER – PART ONE LINE DIAGRAM

NOT TO SCALE

NOTES:

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

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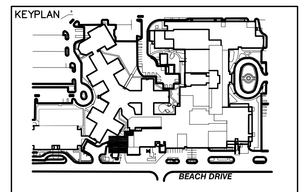

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WEST ISLIP, NY 11795

PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

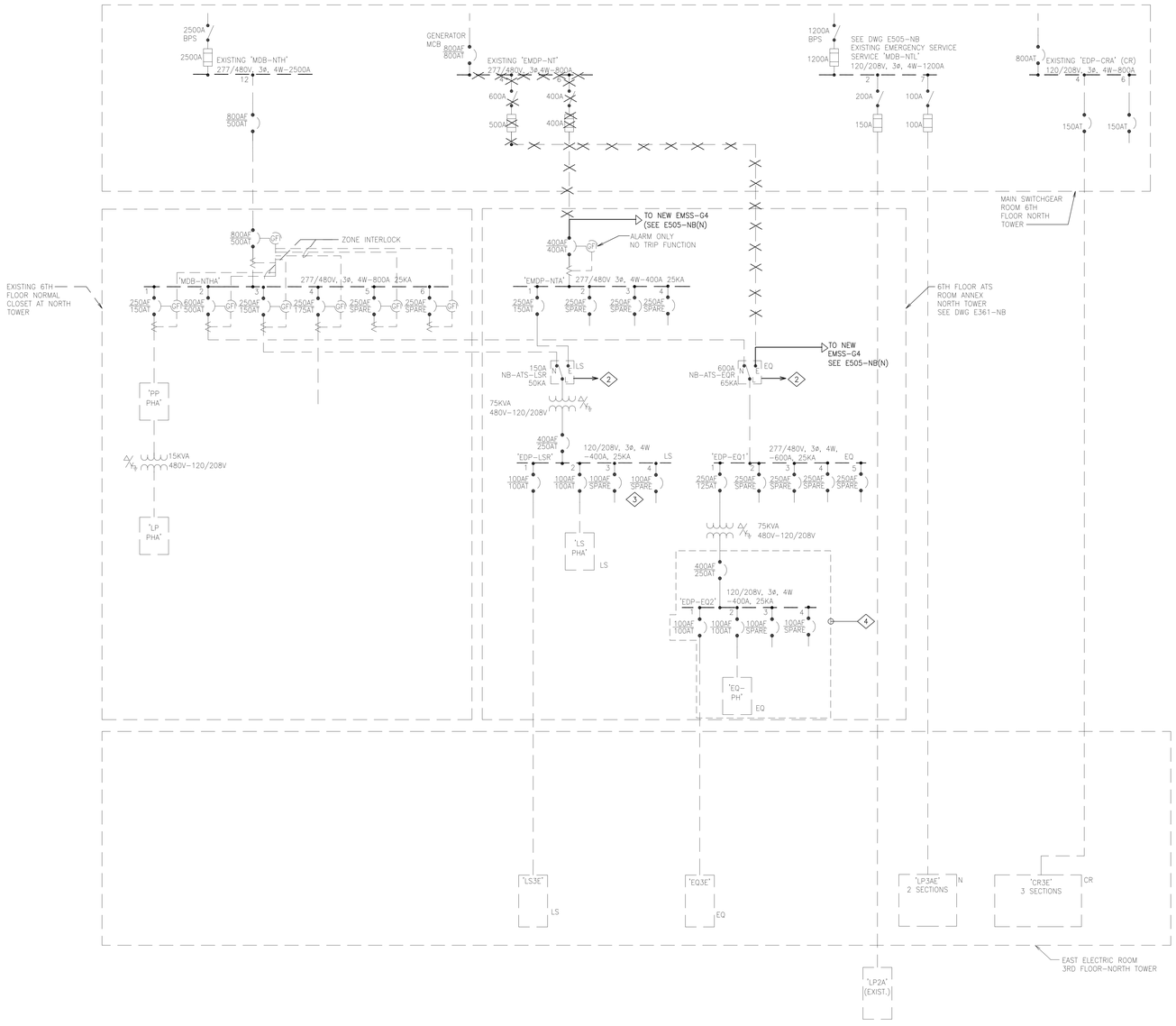
DRAWING NUMBER

E505C-NB

DRAWING NAME

ELECTRICAL ONE LINE DIAG. NORTH TOWER
EX.NORTH TOWER ELEC. RM

DRAWING SCALE	DRAWING FILE
NONE	GSHE505CNB
BINDING ORDER	FIRST ISSUE DATE 04/28/14



NORTH TOWER – PART ONE LINE DIAGRAM

NOT TO SCALE

NOTES

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

2. REMOVE EXISTING EMERGENCY GENERATOR STARTING SIGNAL TO EXISTING GENERATOR AND PROVIDE NEW GENERATOR START SIGNAL TO NEW SYSTEM. PROVIDE ATS MONITORING SIGNAL VIA NEW PMS SYSTEM. ALSO PROVIDE ATS LOAD SHEDDING FOR EQUIPMENT BRANCH ATS.

3. NOT USED

4. SEE FLOOR PLANS E262-NB AND E362-NB, REMOVE AND REPLACE EDP-EQ2, EQ-PH. COORDINATE RELOCATION WORK WITH NEW EQUIPMENT INSTALLATION IN THE ROOM.

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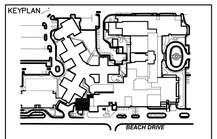

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OWNER

GOOD SAMARITAN
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1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT

ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

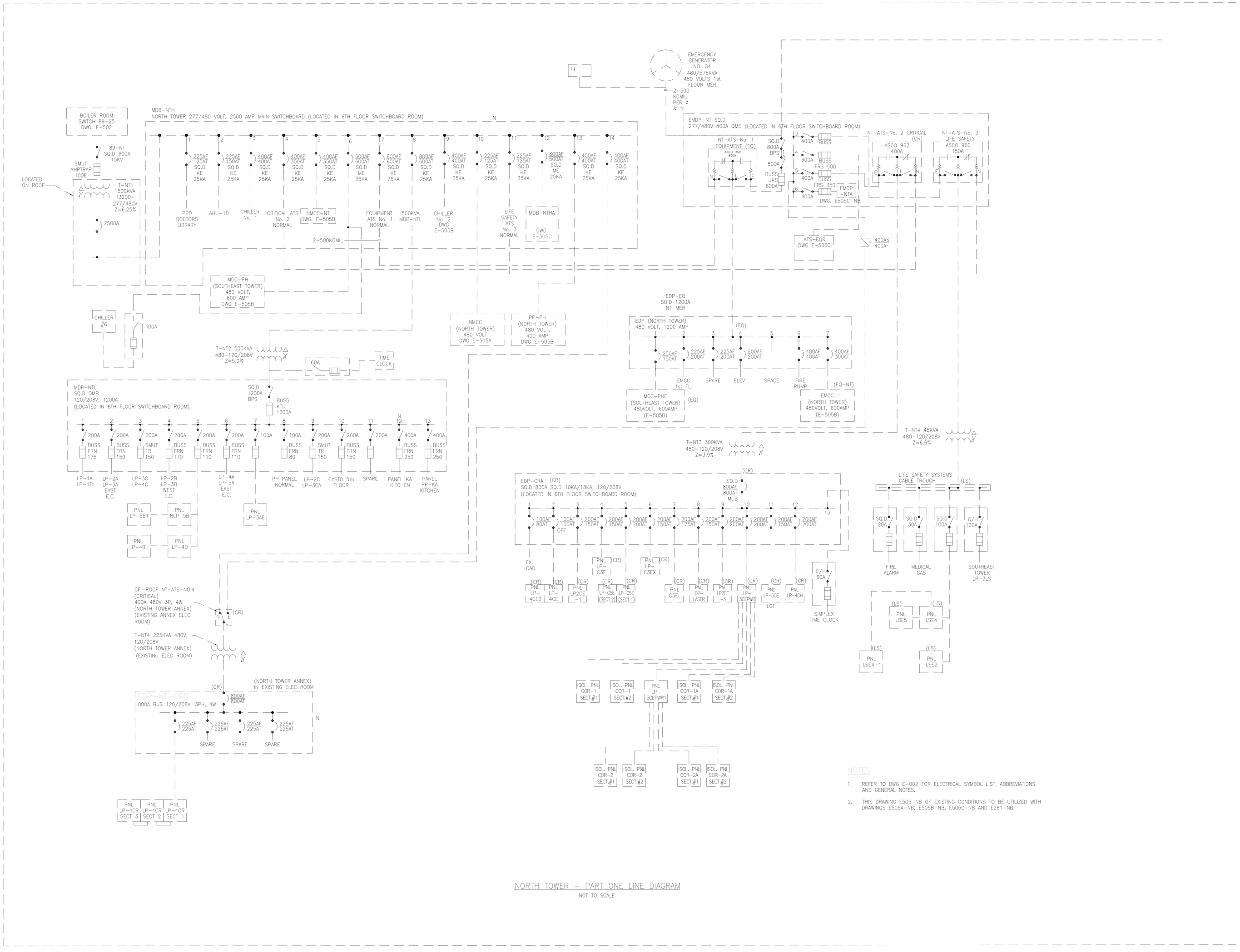
DRAWING NUMBER

E505C-NB(N)

DRAWING NAME

ELECTRICAL ONE LINE DIAG.
NORTH TOWER (NEW NORTH
TOWER ELEC. RM)

DRAWING SCALE	DRAWING FILE
NONE	GSHE505CNBN
BINDING ORDER	FIRST ISSUE DATE 04/28/14



NOTES

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.
2. THIS DRAWING E505-NB OF EXISTING CONDITIONS TO BE UTILIZED WITH DRAWINGS E505A-NB, E505B-NB, E505C-NB AND E261-NB.

NORTH TOWER – PART ONE LINE DIAGRAM

NOT TO SCALE

MEP ENGINEER

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ARCHITECT

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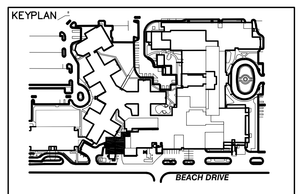

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ISSUE	DATE	DESCRIPTION

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

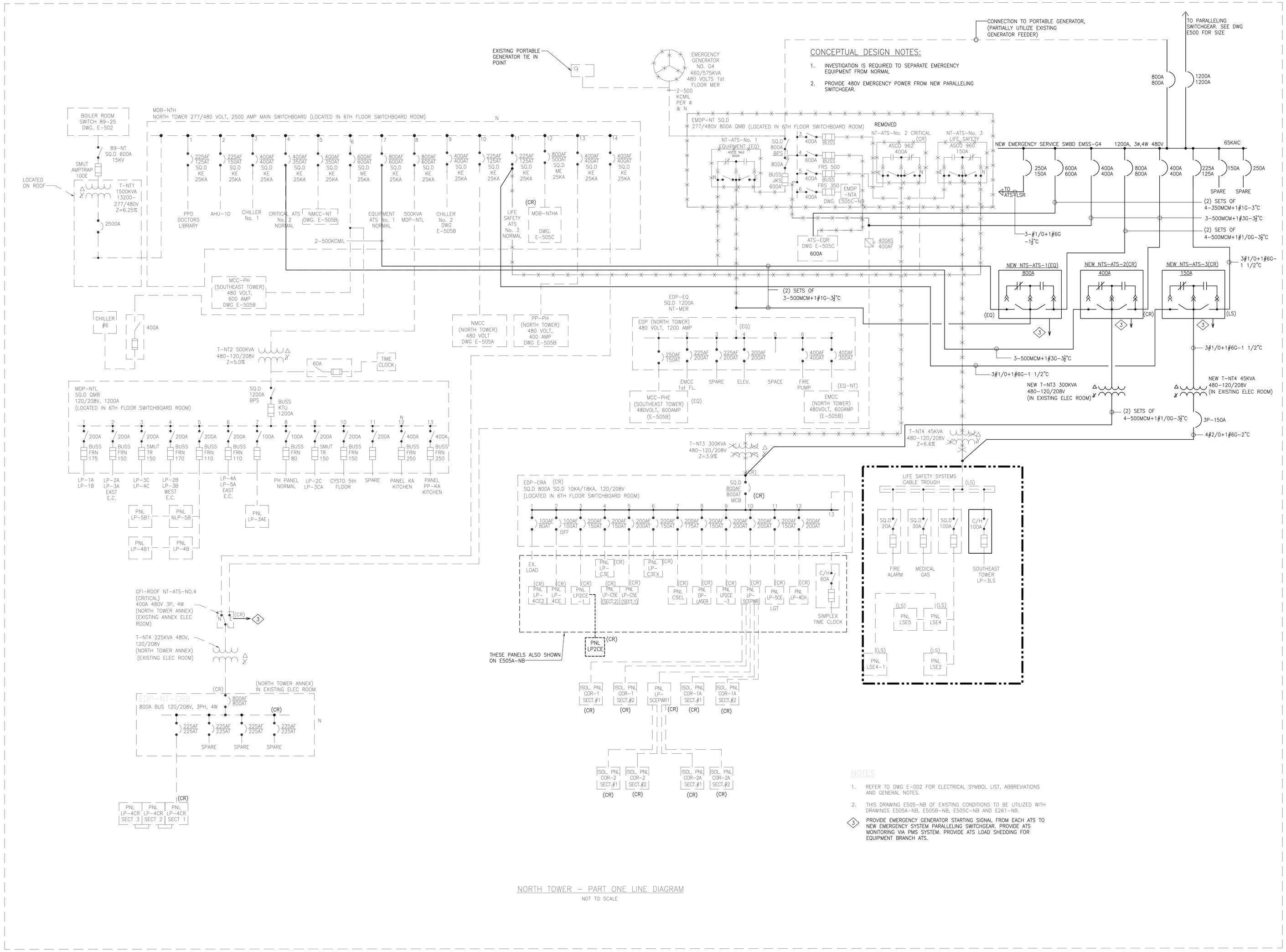
DRAWING NUMBER

E505-NB

DRAWING NAME

ELECTRICAL ONE LINE DIAG. NORTH TOWER (EX. NORTH GENERATOR G4)

DRAWING SCALE	DRAWING FILE
NONE	GSHE505NB
BINDING ORDER	FIRST ISSUE DATE 04/28/14



NORTH TOWER – PART ONE LINE DIAGRAM

NOT TO SCALE

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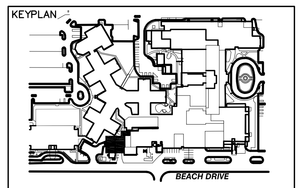

SEAL

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

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

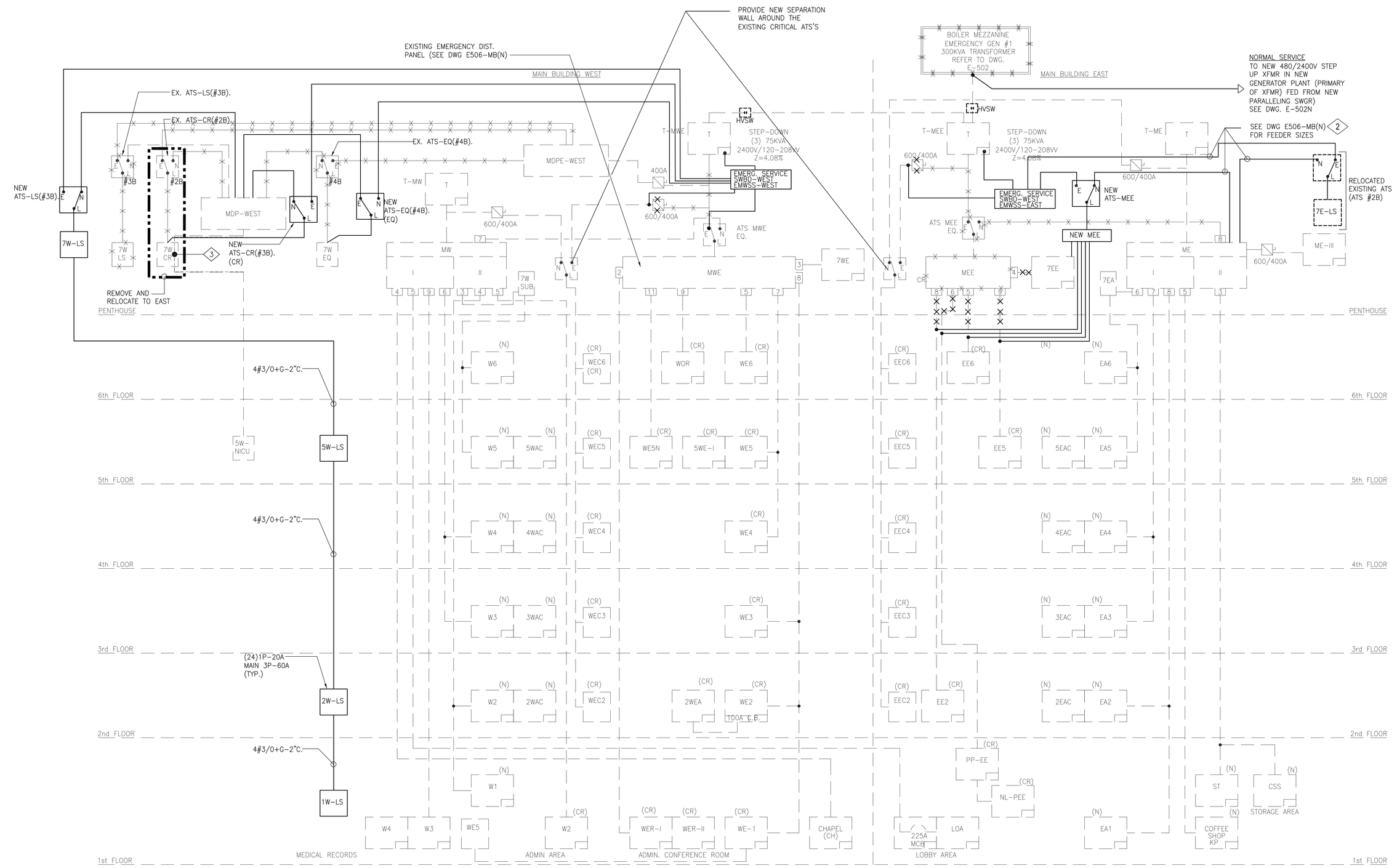
DRAWING NUMBER

E505-NB(N)

DRAWING NAME

ELECTRICAL ONE LINE DIAG. NORTH TOWER (NEW PROP. NORTH TOWER GEN. G4)

DRAWING SCALE	DRAWING FILE
NONE	GSHE505NBN
BINDING ORDER	FIRST ISSUE DATE 04/28/14



MAIN BUILDING
– PART RISER DIAGRAM
NOT TO SCALE

NOTES:

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWING E-324-PP FOR EXISTING 208V/2400V SEP UP TRANSFORMER LOCATION (STEP UP EXISTING TRANSFORMER SERVING MAIN BUILDING EMERGENCY POWER)

   NEW FEEDER (FROM CENTRAL EMERGENCY PLANT) TO BE SPLICED TO EXISTING IN THIS AREA UNDER BASE. CONTRACTOR TO SUBMIT PRICE FOR THE FOLLOWING ALTERNATES:

   ALT-MB#1: REPLACE EXISTING CABLE WITH NEW FROM EXISTING TRANSFORMER (TB-3) LOCATION) UP TO MAIN BUILDING 7TH FLOOR EMERGENCY TRANSFORMER VAULTS (2 LOCATIONS), SEE 371-MB. LOCATION UP TO MAIN BUILDING 7TH FLOOR EMERGENCY TRANSFORMER VAULT (2 LOCATIONS), SEE E371-MB.

   ALT-MB#2: RUN CABLE AND CONDUIT FROM EXISTING TRANSFORMER (TB-3) LOCATION UP TO MAIN BUILDING 7TH FLOOR EMERGENCY TRANSFORMER VAULT (2 LOCATIONS), SEE E371-MB AND E020
3. RETAIN CR AND EQ PANELS AT THE SAME LOCATED AND RECONNECT TO THE NEW ATS.

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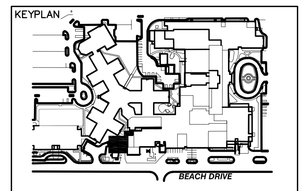

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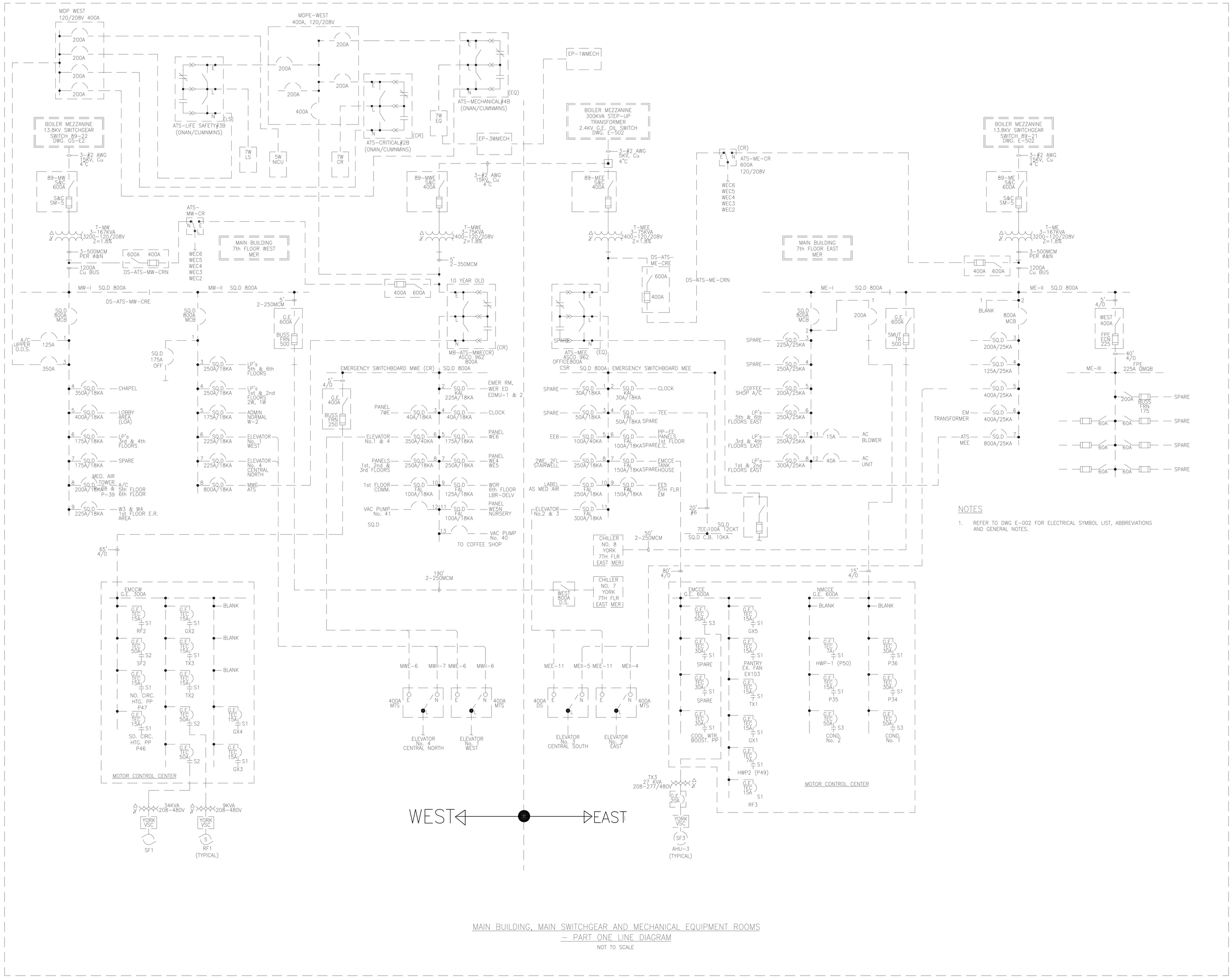
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E506A-MB

DRAWING NAME
ELECTRICAL ONE LINE DIAG. MAIN BLDG-PART 2 (EX. POWER PLANT GEN. G5)

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE506A
BINDING ORDER	FIRST ISSUE DATE 5/14/14



MAIN BUILDING, MAIN SWITCHGEAR AND MECHANICAL EQUIPMENT ROOMS – PART ONE LINE DIAGRAM

NOT TO SCALE

NOTES

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

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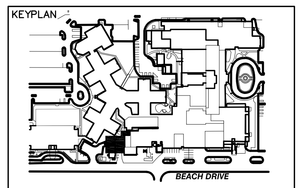

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

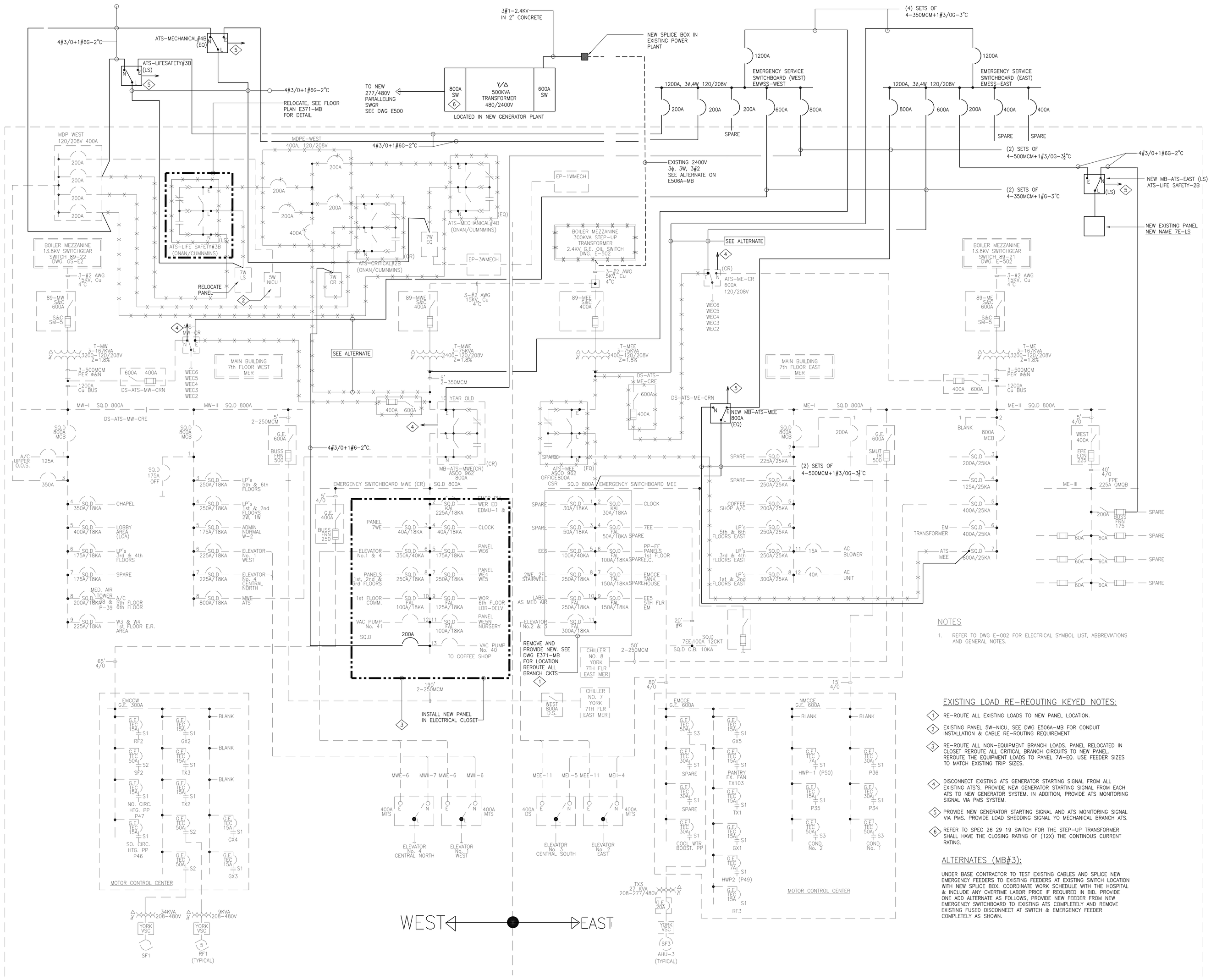
DRAWING NUMBER

E506-MB

DRAWING NAME

ELECTRICAL ONE LINE DIAG. MAIN BLDG-PART 1 (EX. POWER PLANT GEN. G5)

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE506MB
BINDING ORDER	FIRST ISSUE DATE 5/14/14



MAIN BUILDING, MAIN SWITCHGEAR AND MECHANICAL EQUIPMENT ROOMS – PART ONE LINE DIAGRAM

NOT TO SCALE

NOTES

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES.

EXISTING LOAD RE-REOUTING KEYED NOTES:

1. RE-ROUTE ALL EXISTING LOADS TO NEW PANEL LOCATION.
2. EXISTING PANEL 5W-NICU, SEE DWG E506A-MB FOR CONDUIT INSTALLATION & CABLE RE-ROUTING REQUIREMENT
3. RE-ROUTE ALL NON-EQUIPMENT BRANCH LOADS. PANEL RELOCATED IN CLOSET REROUTE ALL CRITICAL BRANCH CIRCUITS TO NEW PANEL. REROUTE THE EQUIPMENT LOADS TO PANEL 7W-EQ. USE FEEDER SIZES TO MATCH EXISTING TRIP SIZES.
4. DISCONNECT EXISTING ATS GENERATOR STARTING SIGNAL FROM ALL EXISTING ATS'S. PROVIDE NEW GENERATOR STARTING SIGNAL FROM EACH ATS TO NEW GENERATOR SYSTEM. IN ADDITION, PROVIDE ATS MONITORING SIGNAL VIA PMS SYSTEM.
5. PROVIDE NEW GENERATOR STARTING SIGNAL AND ATS MONITORING SIGNAL VIA PMS. PROVIDE LOAD SHEDDING SIGNAL YO MECHANICAL BRANCH ATS.
6. REFER TO SPEC 26 29 19 SWITCH FOR THE STEP-UP TRANSFORMER SHALL HAVE THE CLOSING RATING OF (12X) THE CONTINOUS CURRENT RATING.

ALTERNATES (MB#3):

UNDER BASE CONTRACTOR TO TEST EXISTING CABLES AND SPLICE NEW EMERGENCY FEEDERS TO EXISTING FEEDERS AT EXISTING SWITCH LOCATION WITH NEW SPLICE BOX. COORDINATE WORK SCHEDULE WITH THE HOSPITAL & INCLUDE ANY OVERTIME LABOR PRICE IF REQUIRED IN BID. PROVIDE ONE ADD ALTERNATE AS FOLLOWS, PROVIDE NEW FEEDER FROM NEW EMERGENCY SWITCHBOARD TO EXISTING ATS COMPLETELY AND REMOVE EXISTING FUSED DISCONNECT AT SWITCH & EMERGENCY FEEDER COMPLETELY AS SHOWN.

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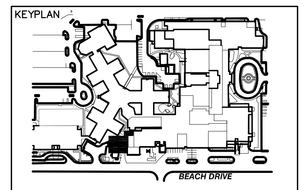

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1	07.30.14	100% DESIGN DEVELOPMENT

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E506-MB(N)

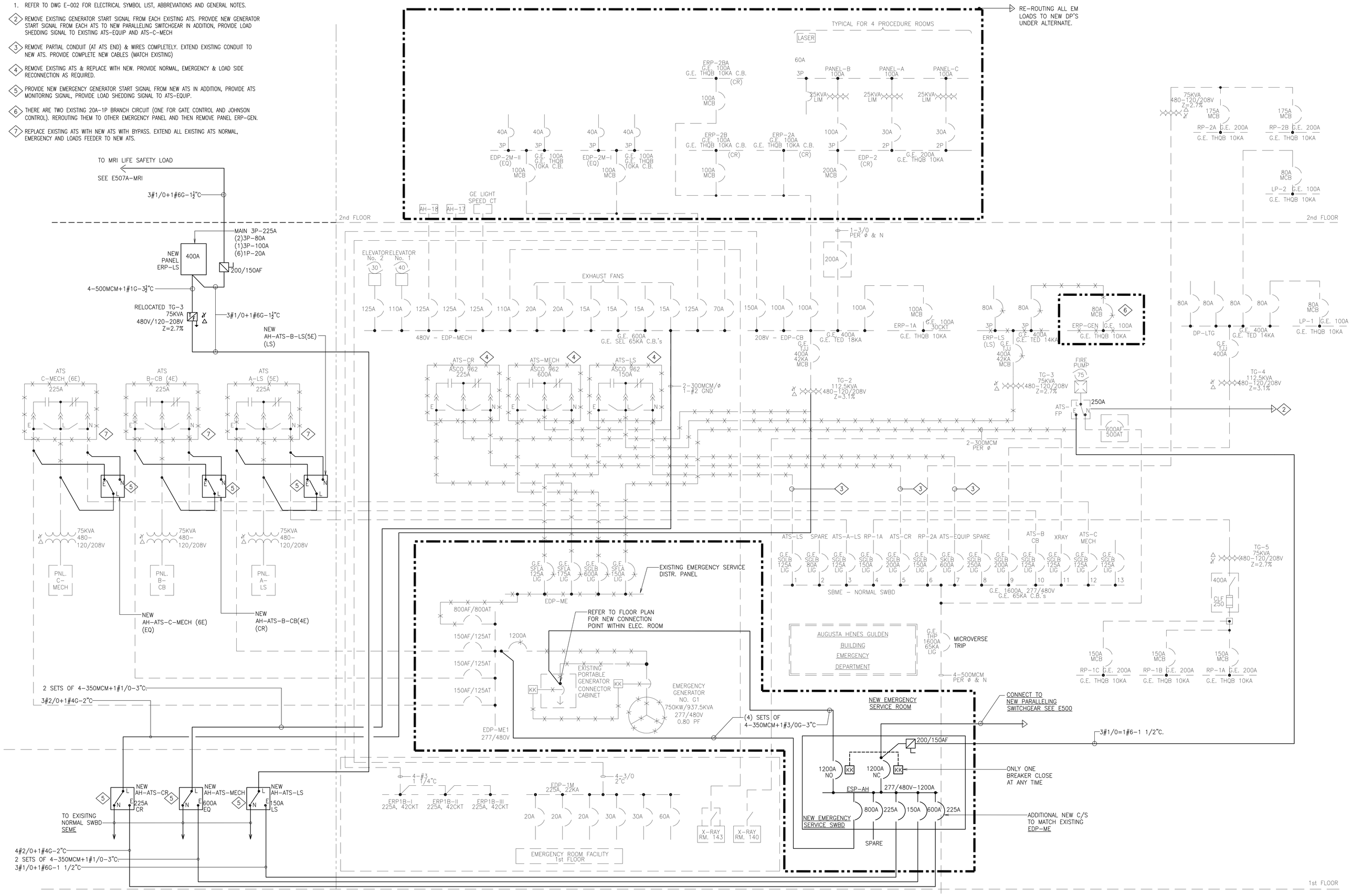
DRAWING NAME

ELECTRICAL ONE LINE DIAG. MAIN BLDG-PART 1 (NEW PROP. PWR PLNT G5)

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE506MBN
BINDING ORDER	FIRST ISSUE DATE 5/14/14

NOTES:

1. REFER TO DWG E-002 FOR ELECTRICAL SYMBOL LIST, ABBREVATIONS AND GENERAL NOTES.
2. REMOVE EXISTING GENERATOR START SIGNAL FROM EACH EXISTING ATS. PROVIDE NEW GENERATOR START SIGNAL FROM EACH ATS TO NEW PARALLELING SWITCHGEAR IN ADDITION, PROVIDE LOAD SHEDDING SIGNAL TO EXISTING ATS-EQUIP AND ATS-C-MECH
3. REMOVE PARTIAL CONDUIT (AT ATS END) & WIRES COMPLETELY. EXTEND EXISTING CONDUIT TO NEW ATS. PROVIDE COMPLETE NEW CABLES (MATCH EXISTING)
4. REMOVE EXISTING ATS & REPLACE WITH NEW. PROVIDE NORMAL, EMERGENCY & LOAD SIDE RECONNECTION AS REQUIRED.
5. PROVIDE NEW EMERGENCY GENERATOR START SIGNAL FROM NEW ATS IN ADDITION, PROVIDE ATS MONITORING SIGNAL, PROVIDE LOAD SHEDDING SIGNAL TO ATS-EQUIP.
6. THERE ARE TWO EXISTING 20A-1P BRANCH CIRCUIT (ONE FOR GATE CONTROL AND JOHNSON CONTROL). REROUTING THEM TO OTHER EMERGENCY PANEL AND THEN REMOVE PANEL ERP-GEN.
7. REPLACE EXISTING ATS WITH NEW ATS WITH BYPASS. EXTEND ALL EXISTING ATS NORMAL, EMERGENCY AND LOADS FEEDER TO NEW ATS.



OUTSTANDING ITEMS:

1. VERIFY CONDITION OF TG-3 IF TO BE REUSED.
2. VERIFY PANEL ERP-GEN IF ONLY SERVES EXISTING GENERATOR LOADS CAN BE DE-ENERGIZED
3. PROBLEM WITH HARDENING WITHIN THE ROOM EQUIPMENT NEED TO BE RELOCATED.

AUGUSTA HENES GULDEN
– PART ONE LINE DIAGRAM
NOT TO SCALE

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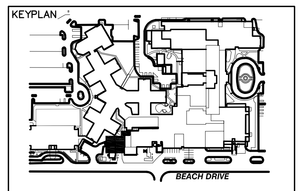

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ISSUE	DATE	DESCRIPTION

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PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E507-AH

DRAWING NAME
ELECTRICAL ONE LINE DIA. AUGUSTA HENES (EXISTING AUGUSTA HENES GENG1)

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE507
BINDING ORDER	FIRST ISSUE DATE 5/14/14

9 REROUTE TOTAL OF TEN (10) 20A-1P BRANCH CIRCUIT FROM EACH EXISTING PANEL SHOWN TO NEW LIFE SAFETY PANEL.

10 REROUTE TOTAL OF (2)20A-1P BRANCH CIRCUIT FROM EACH EXISTING PANEL SHOWN TO NEW LIFE SAFETY PANEL.

SCOPE OF WORK SUMMARY (BASE):

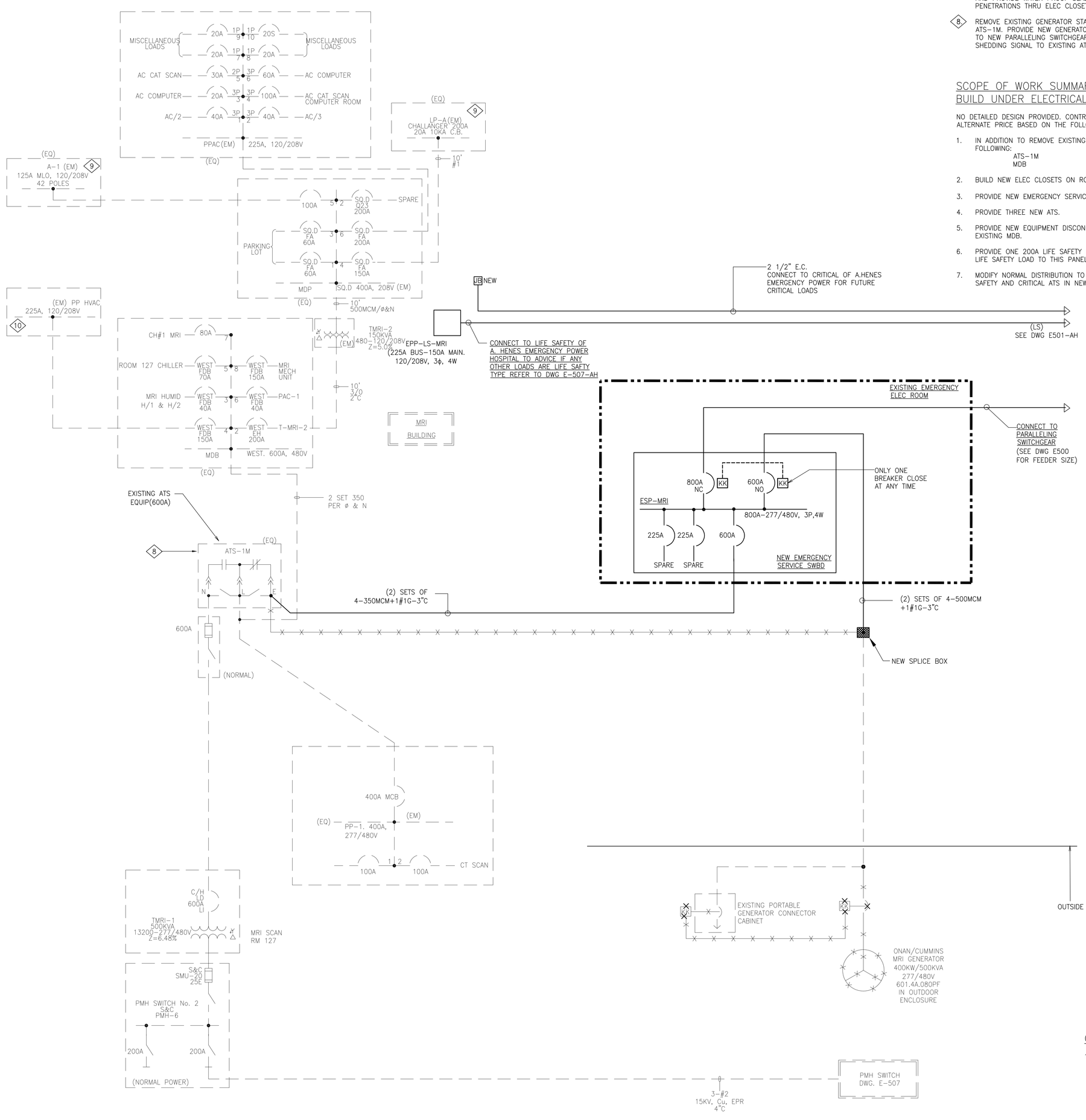
1. REMOVE EXISTING EMERGENCY GENERATOR AND ASSOCIATED CONNECTIONS.
2. PROVIDE 277/480V EMERGENCY FEEDER FROM PARALLEL SWITCHGEAR DIRECTLY.
3. PROVIDE ONE EMERGENCY SERVICE PANEL WITH DUAL INPUT AND KIRK KEY INTERLOCK.
4. RE-FEED EXISTING ATS-1M FROM NEW SERVICE PANEL.
5. PROVIDE LIFE SAFETY POWER FROM A. HENES BUILDING.
6. PROVIDE CRITICAL POWER FROM A. HENES BUILDING.
7. HARDENING EXISTING ELECTRICAL CLOSET AS PER ARCHITECT AND PROVIDE WATER PROOF SEALANT TO ALL CONDUIT PENETRATIONS THRU ELEC CLOSET WALL.

8 REMOVE EXISTING GENERATOR START SIGNAL FROM EXISTING ATS-1M. PROVIDE NEW GENERATOR SIGNAL FROM ATS-1M TO NEW PARALLELING SWITCHGEAR ALSO PROVIDE LOAD SHEDDING SIGNAL TO EXISTING ATS-1M.

SCOPE OF WORK SUMMARY (ALTERNATE BUILD UNDER ELECTRICAL ROOF):

NO DETAILED DESIGN PROVIDED. CONTRACTOR TO SUBMIT ADD ALTERNATE PRICE BASED ON THE FOLLOWING DESCRIPTION:

1. IN ADDITION TO REMOVE EXISTING GENERATOR REMOVE THE FOLLOWING:
   ATS-1M
   MDB
2. BUILD NEW ELEC CLOSETS ON ROOF.
3. PROVIDE NEW EMERGENCY SERVICE PANEL (800A).
4. PROVIDE THREE NEW ATS.
5. PROVIDE NEW EQUIPMENT DISCONNECT PANEL SIMILARLY TO EXISTING MDB.
6. PROVIDE ONE 200A LIFE SAFETY PANEL AND CONNECT ALL LIFE SAFETY LOAD TO THIS PANEL.
7. MODIFY NORMAL DISTRIBUTION TO PROVIDE POWER TO LIFE SAFETY AND CRITICAL ATS IN NEW ELEC CLOSET.



MRI BUILDING
– PART ONE LINE DIAGRAM
NOT TO SCALE

OUTSTANDING ITEMS:

1. EXISTING PANEL MDP BRANCH LOAD TYPE.

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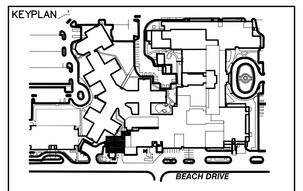

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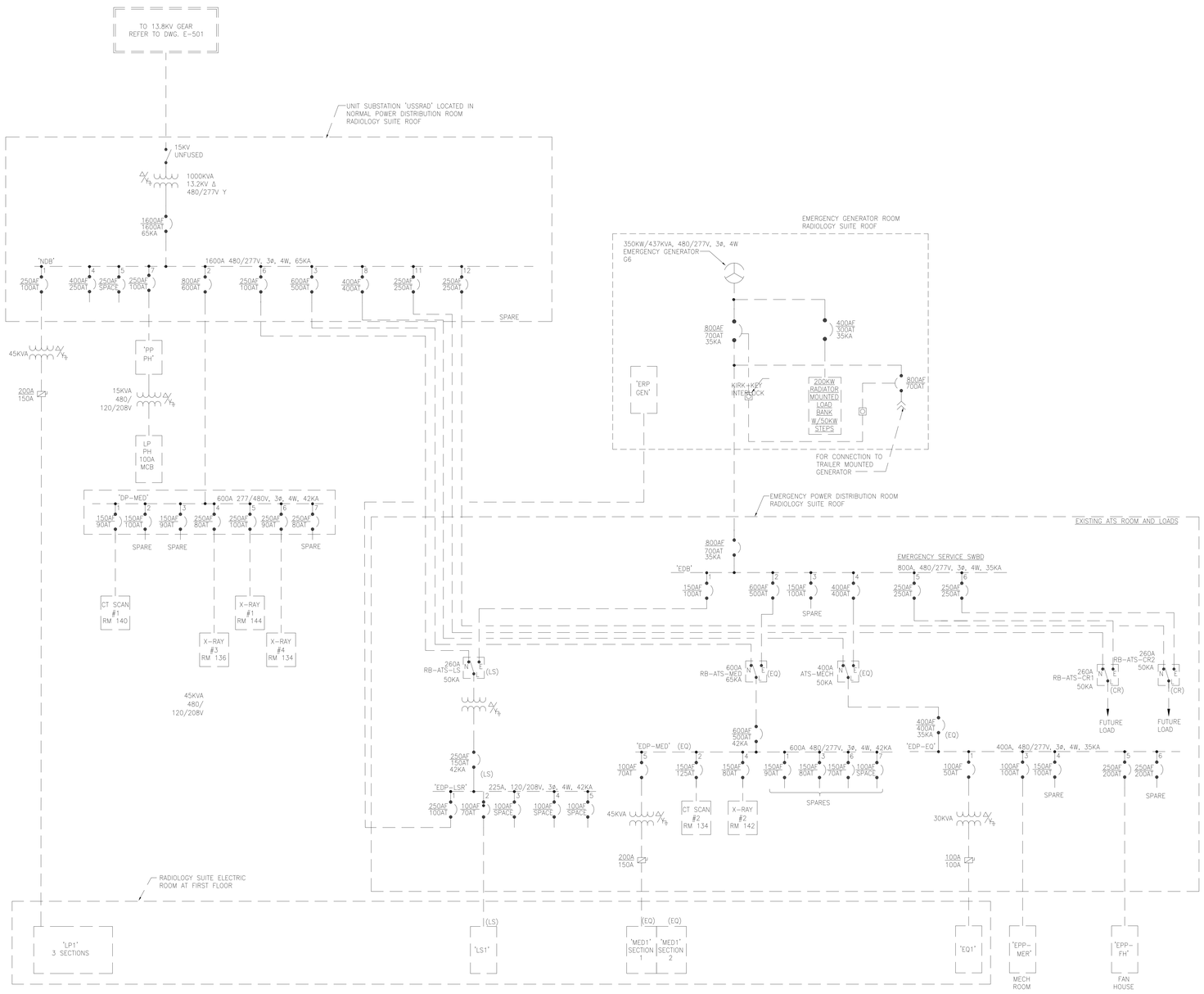
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E507A-MRI

DRAWING NAME
ELECTRICAL ONE LINE DIAGRAM MRI (NEW PROP. MRI GENERATOR G3)

DRAWING SCALE: AS NOTED
DRAWING FILE: GSHE507AMRI
BINDING ORDER
FIRST ISSUE DATE: 5/14/14



RADIOLOGY – ONE LINE DIAGRAM

NOT TO SCALE

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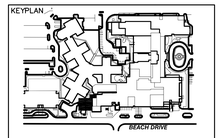

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E508-RB

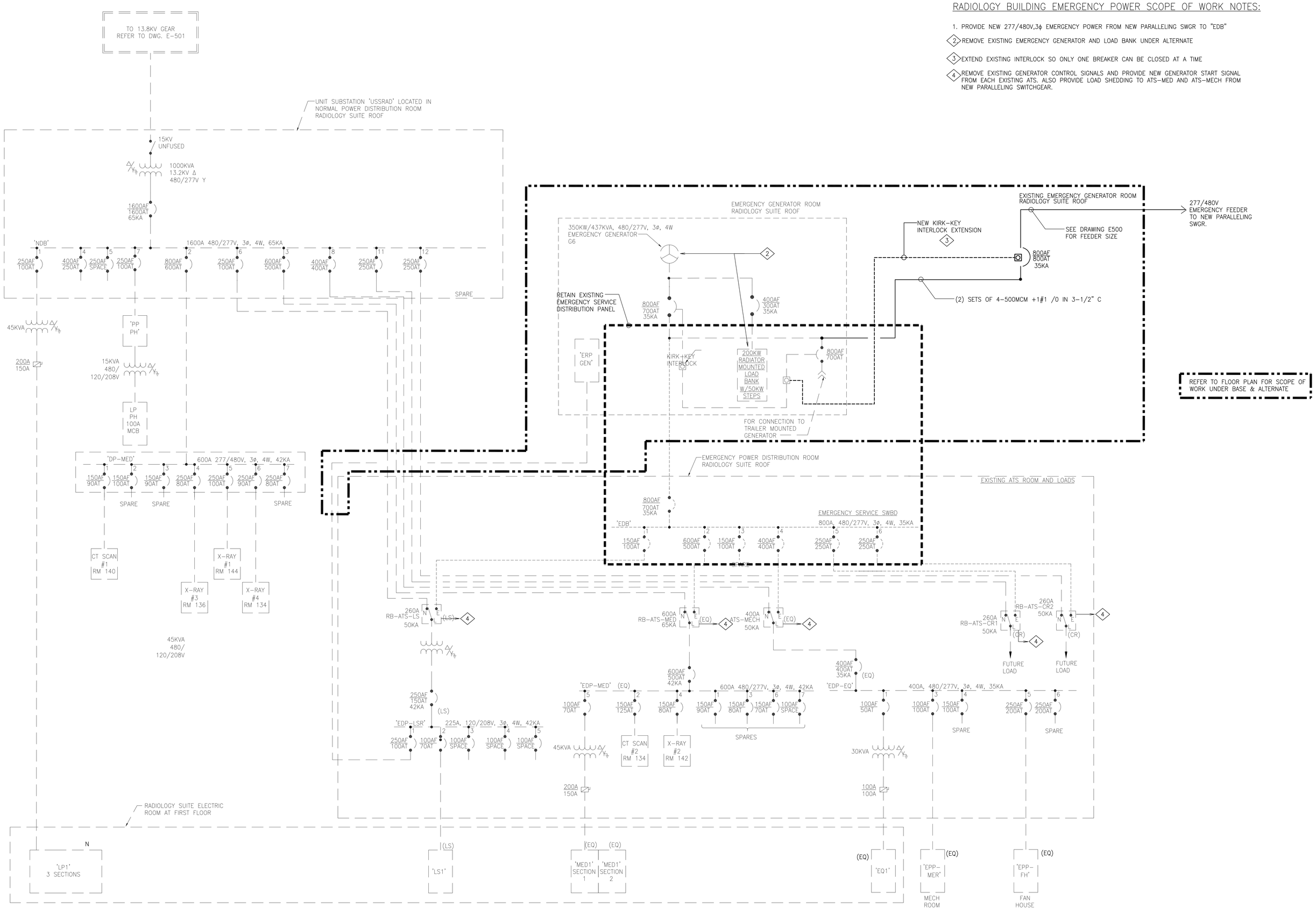
DRAWING NAME

ELECTRICAL ONE LINE DIAG. RADIOLOGY (EX. RADIOLOGY GEN. G6)

DRAWING SCALE	DRAWING FILE
NONE	GSHE508RB
BINDING ORDER	FIRST ISSUE DATE 5/28/14

RADIOLOGY BUILDING EMERGENCY POWER SCOPE OF WORK NOTES:

1. PROVIDE NEW 277/480V,3ϕ EMERGENCY POWER FROM NEW PARALLELING SWGR TO "EDB"
2. REMOVE EXISTING EMERGENCY GENERATOR AND LOAD BANK UNDER ALTERNATE
3. EXTEND EXISTING INTERLOCK SO ONLY ONE BREAKER CAN BE CLOSED AT A TIME
4. REMOVE EXISTING GENERATOR CONTROL SIGNALS AND PROVIDE NEW GENERATOR START SIGNAL FROM EACH EXISTING ATS. ALSO PROVIDE LOAD SHEDDING TO ATS–MED AND ATS–MECH FROM NEW PARALLELING SWITCHGEAR.



RADIOLOGY – ONE LINE DIAGRAM

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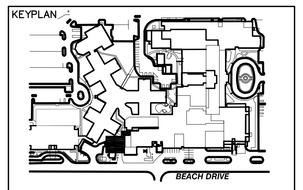


SEAL

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

E508-RB(N)

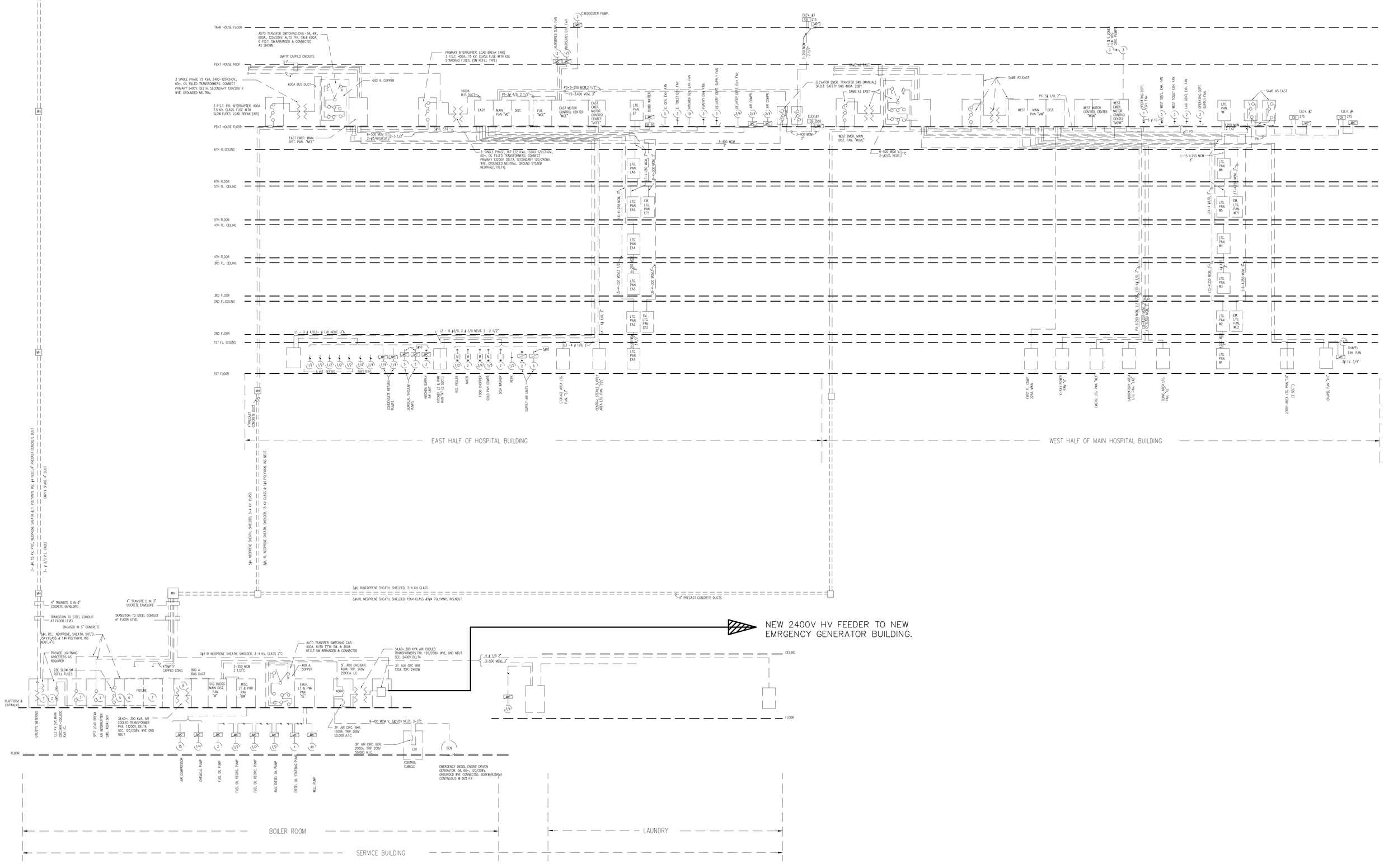
DRAWING NAME

ELECTRICAL ONE LINE DIAG. RADIOLOGY (NEW PROP. RADIOLOGY GEN. G6)

DRAWING SCALE	DRAWING FILE
NONE	GSHE508RBN
BINDING ORDER	FIRST ISSUE DATE 5/28/14

LIGHTING PANEL SCHEDULES

PANEL	S. P. 120V. 20A	S. P. 120V. 30A	S. P. 120V. 40A	S. P. 120V. 50A	2P. 208V. 20A	2P. 208V. 30A	2P. 208V. 50A	2P. 208V. 70A	3P. 208V. 20A	3P. 208V. 30A	3P. 208V. 40A	3P. 208V. 50A	3P. 208V. 70A	MAIN CIR. BKR	REMARKS
KE	6								10		2				
K	30								11		1				2 SECTIONS
ST	12									2					
CSS	19	1*			4				4						*CIR. #17
EA1	23	1*			6				1			2		225A ✓	*CIR. #13
EA2	27	3*			6									225A ✓	*CIR. #1,3,5
EA3	20	6*												225A ✓	*CIR. #2,4,6,8,10,12. 2 BLANKS #26&28
EA4	20	6*			6									225A ✓	
EA5	20	4*			6									200A ✓	*CIR. #1,7,9,12
EA6	21				2									150A ✓	3 BLANKS *20,22,24
EF	14								1	1*				125A ✓	*CIR.#13
EE2	16			4*				2							*CIR. #8,10,12,19. 2 BLANKS #20,32
EE5	16			4*				2							*CIR. #13,15,17,23. 2 BLANKS *20,28
OB1															OB1,OB2 & OB3–SPLIT VERTICAL
OB2															BUS–4.20A, 2P. BKR3/SECTION
OB3															
WE1	17	1*							2						*CIR. #9
LAB	42														
CL	28	2*							3						*CIR. #8 & 10
LO	30				2		2		5						
CH	24								2				2*		*CIR. #27 & 28
W1	30													200A ✓	
W2	25	3*			5									225A ✓	*CIR. 1,3,6. 3 BLANKS #28,30,36
W3	20	6*			2									200A ✓	*CIR. #1,3,5,7,9,11. 2 BLANKS #26,28
W4	20	6*			2									200A ✓	*CIR. #1,3,5,7,9,11. 2 BLANKS #26,28
W5	22	5*			6									250A ✓KL	*CIR. #1,3,5,7,9. 3 BLANKS #26,28,30
W6	15				4									150A ✓	3 S.P BLANKS #14,16,18.
WF	19													125A ✓	1 BLANKS #20
WE2	19			3*				2							*CIR. #8,12,13. 2 BLANKS #22 & 24
WE5	24			4*				2							*CIR. #20,21,22,23. 2 BLANKS #28,30
OR1					4										OR1,OR2 & OR3–SPLIT VERTICAL
OR2					4										BUS–4.20A,2P.BKRS./SECTION
OR3					4										
OR4					4										OR4 & OR5–SPLIT VERTICAL
OR5					4										BUS–4.20A, 2P. BKRS./SECTION
LL	19								1						2.15. 3P. BKRS. #21,23. 1SP. BLANK #20



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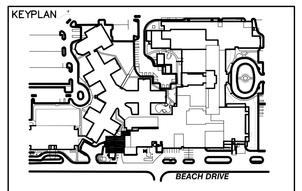

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

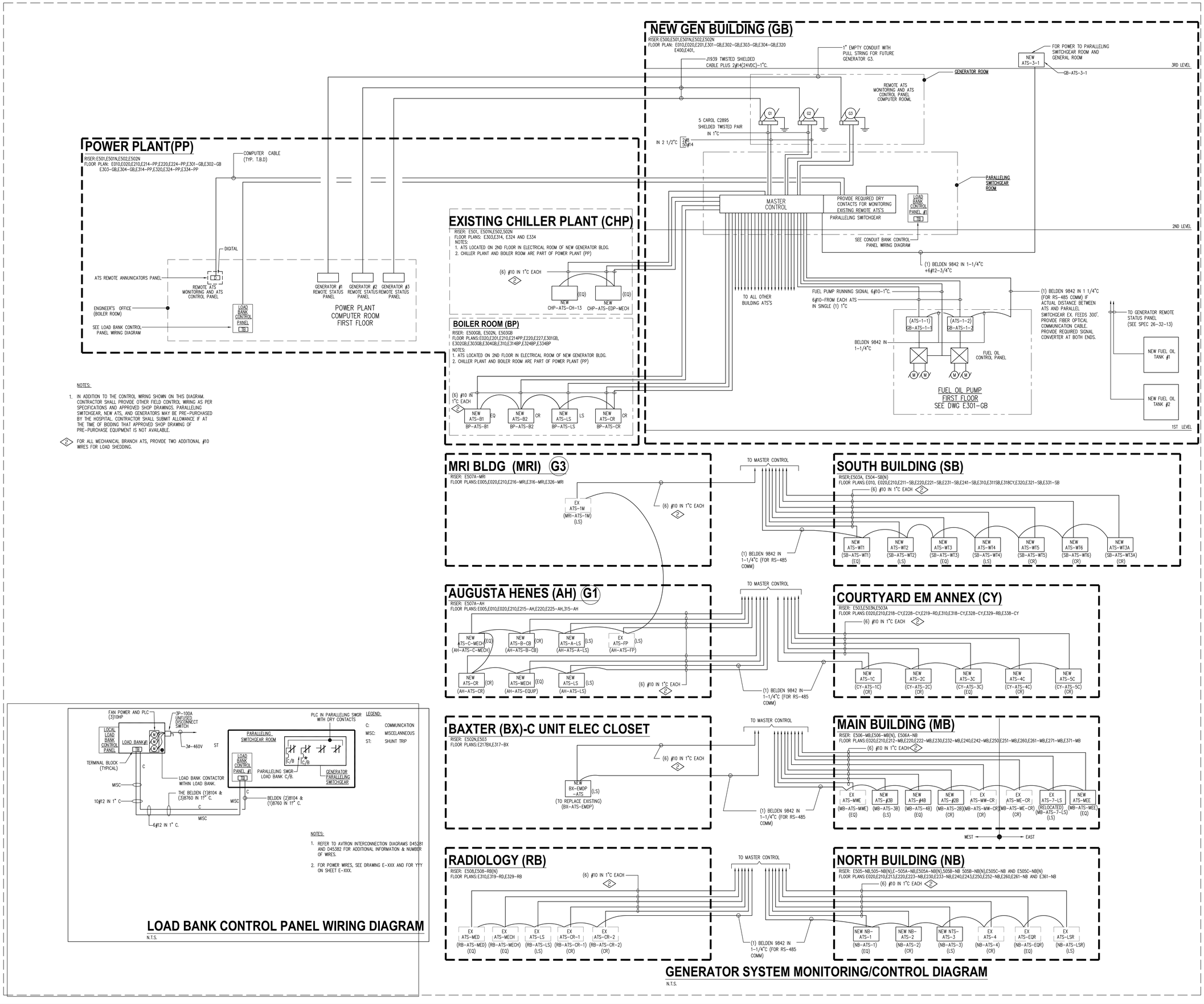
DRAWING NUMBER

E509-PMB

DRAWING NAME

ELECTRICAL ONE LINE DIAG. POWER PLANT AND MAIN BUILDING

DRAWING SCALE	DRAWING FILE
NONE	GSHE509PMB
BINDING ORDER	FIRST ISSUE DATE 11/12/14



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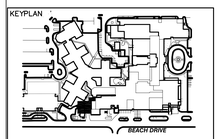

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

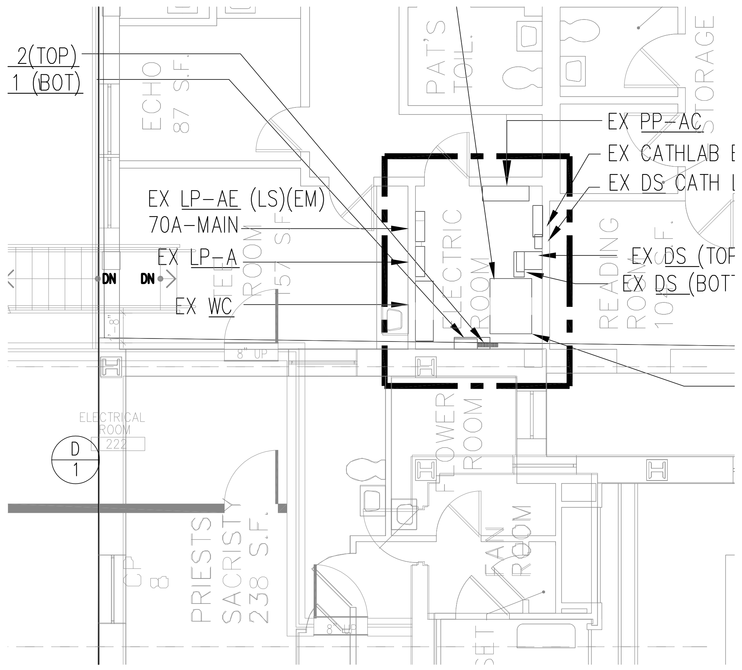
DRAWING NUMBER

E510

DRAWING NAME

ELECTRICAL ONE LINE GENERATOR SYSTEM CONTROL AND MONITORIN

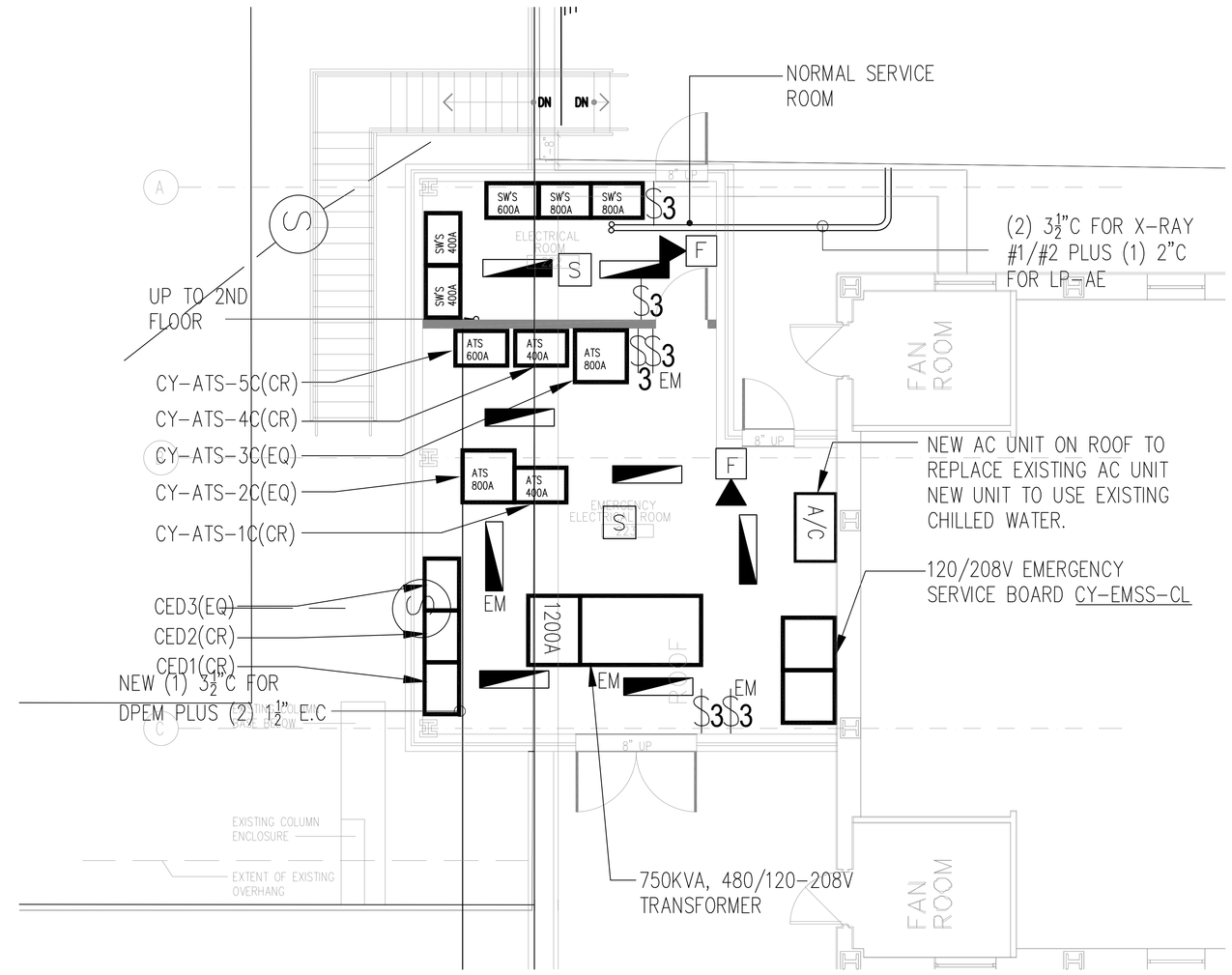
DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE510
BINDING ORDER	FIRST ISSUE DATE
	11/26/14



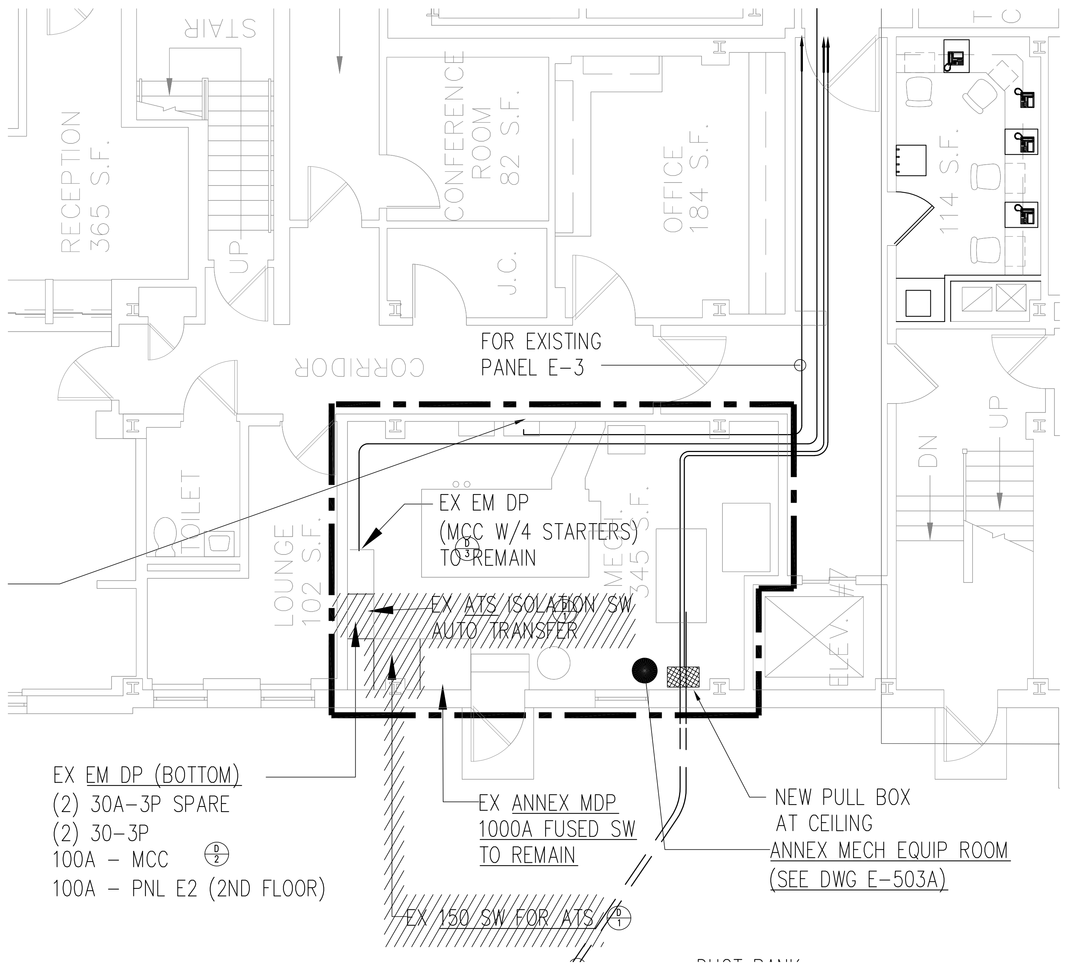
1 ENLARGED PLAN - ROOF - EXISTING CATH LAB DEMOLITION
SCALE: 1/4"=1'-0"

NOTES FOR LEVEL 1–CATH LAB/RADIOLOGY DEMOLITION DETAIL 3

(D/1) DISCONNECT POWER FOR X-RAY-1 AND X-RAY-2 FROM COURTYARD POWER SUPPLY.



2 ENLARGED PLAN - ROOF - CATH LAB/RADIOLOGY NEW WORK/ OR ON EXISTING COURTYARD BUILDING ROOF
SCALE: 1/4"=1'-0"



3 ENLARGED PLAN - LEVEL 1 - ANNEX BUILDING ELECTRIC CLOSET -DEMOLITION WORK
SCALE: 1/4"=1'-0"

NOTES FOR LEVEL 1 – ANNEX BUILDING DETAIL 3

(D/1) REMOVE EXISTING 150A SWITCH AND AUTOMATIC TRANSFER SWITCH.

(D/2) SEE RISER ON E503A DISCONNECT PANEL E2 AND (1) 30A-3P PANEL FOR TELEPHONE ROOM & RE-ROUTE TO SOUTH BUILDING EMERGENCY SYSTEM. REMOVE EXISTING FEEDER FROM EMDP TO PANEL E2. EXISTING FEEDER FOR TELEPHONE PNL TO REMAIN & RE-ROUTE TO NEW SB-EMDP1.

(D/3) DISCONNECT POWER FOR ANNEX EMDP & RE-ROUTE TO SOUTH BUILDING EMERGENCY SYSTEM – SEE RISER ON E504-SB (N)

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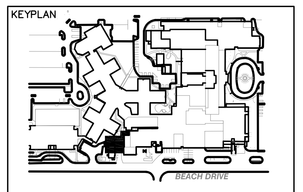

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PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E601

DRAWING NAME
ELECTRICAL CLOSET DETAIL SHEET NO.1

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE601
BINDING ORDER	FIRST ISSUE DATE 04/28/14

NEW WORK NOTES:

1. CONTRACTOR SHALL INSTALL NEW EQUIPMENT (TO REPLACE EXISTING PRIOR TO REMOVE EXISTING EQUIPMENT –SEE DEMO PLAN FOR DETAILS OF DEMOLITION.

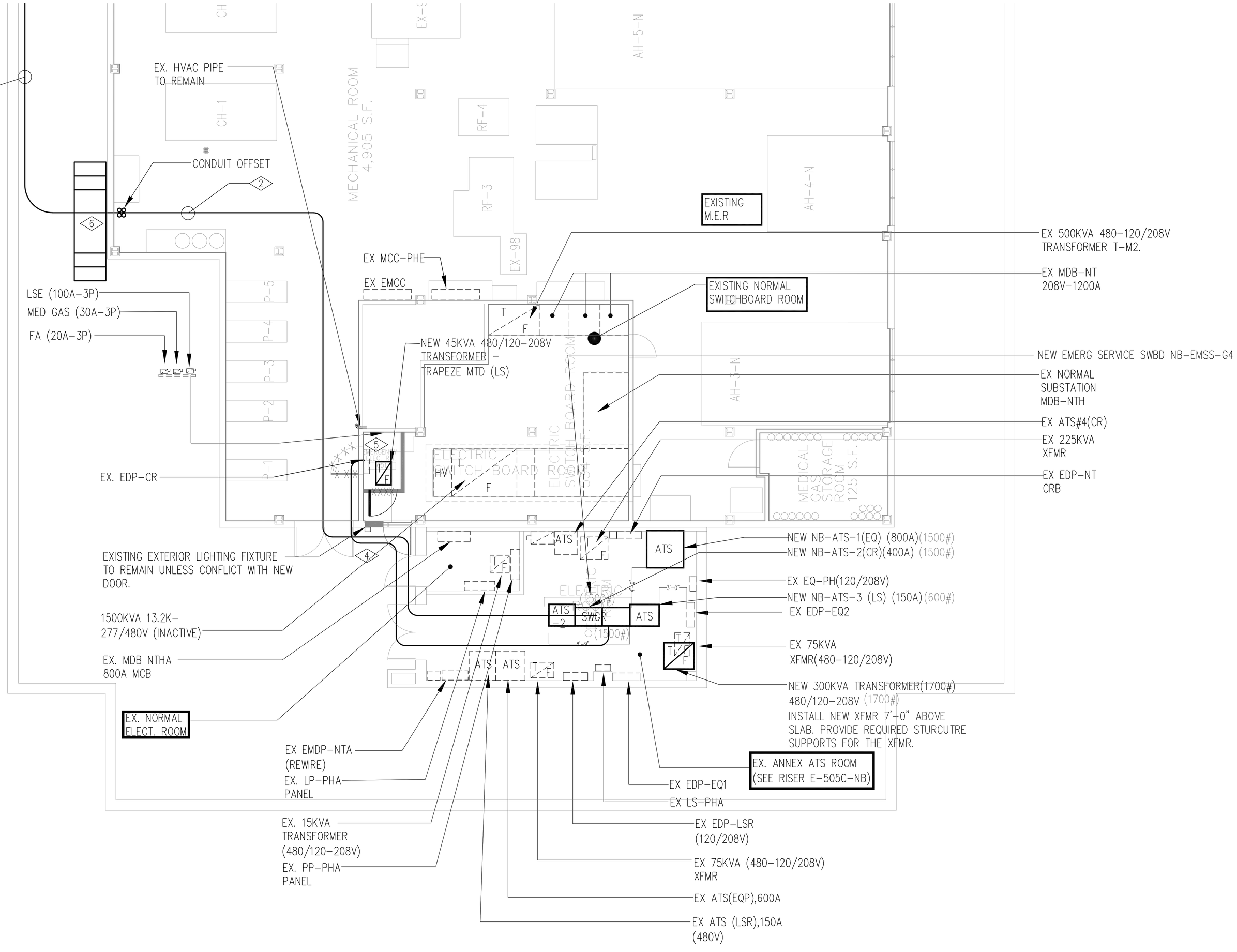
2. RUN NEW CONDUITS IN MECHANICAL ROOM, SPACE NOT VERIFIED.

3. NEW PANEL TO REPLACE EXISTING PANEL – NEW PANEL TO MATCH EXISTING DETAILS OF PANEL SIZE, BRANCH CIRCUIT SIZE NEED FIELD VERIFICATION. THIS PANEL TO BE FED FROM THE NEW 300KVA TRANSFORMER.

4. NEW EMERGENCY FEEDER FROM THE NEW PARALLELING SWITCHGEAR IN NEW GENERATOR PLANT BUILDING RUN NEW CONDUITS ON EXISTING EXTERIOR WALL (ABOVE ALL EXISTING DOORS) AS SHOWN AND PROVIDE PULL BOX AS REQUIRED– REFER TO DRAWING E020 FOR OVERALL EMERGENCY FEEDER ROUTING.

5. PROVIDE ONE NEW SMOKE DETECTOR MOUNTED AT CEILING AND TIE INTO EXISTING FIRE ALARM SYSTEM; PROVIDE ONE NEW INDUSTRIAL TYPE FLUORESCENT LIGHTING FIXTURE WALL MOUNTED ABOVE NEW DOOR AND PROVIDE NEW CONTROL SWITCH – WIRE TO THE NEAREST EMERGENCY LIGHTING CIRCUIT.

6. COORDINATE WITH G.C. AND PROVIDE PLATFORM ABOVE THE ROOF MOUNTED CONDUITS.



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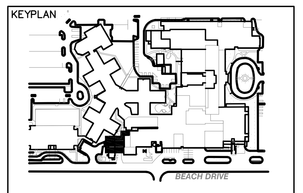

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER

E602

DRAWING NAME

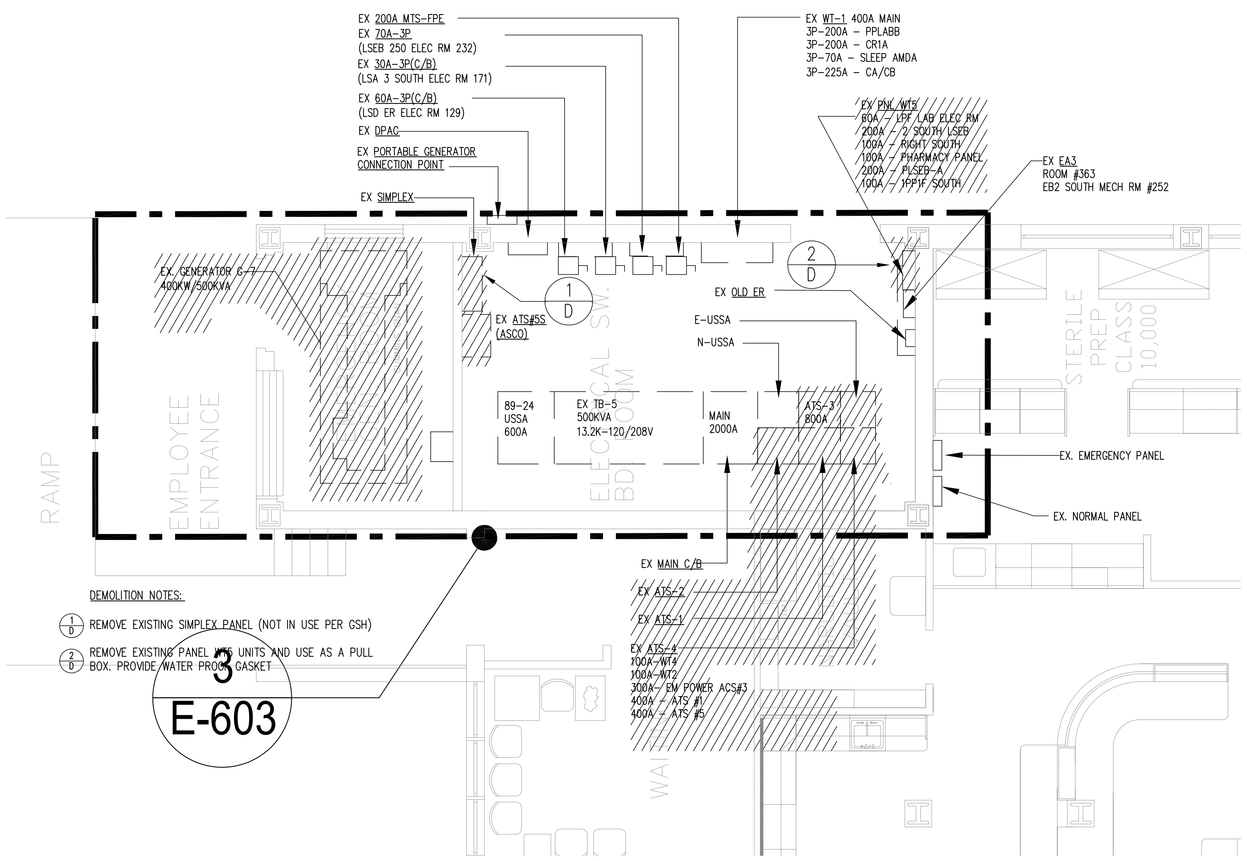
ELECTRICAL CLOSET DETAIL SHEET NO.2

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

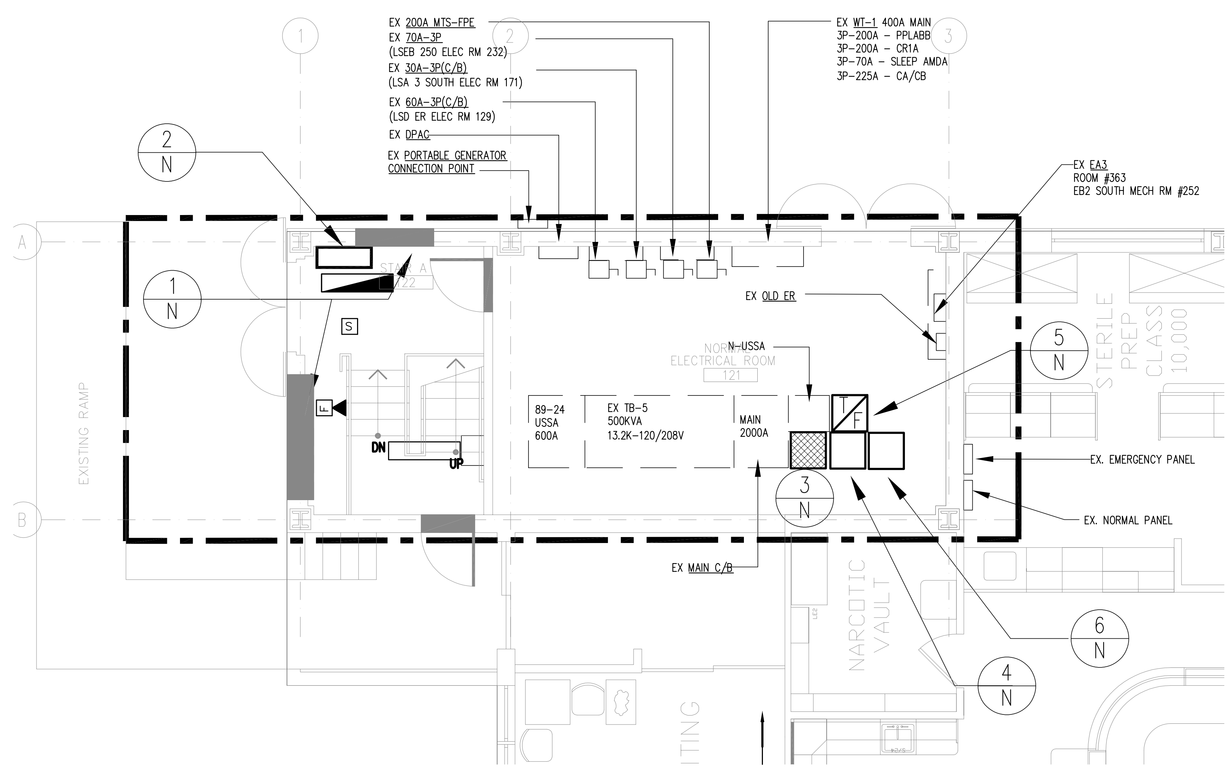
DRAWING FILE: GSHE602

BINDING ORDER

FIRST ISSUE DATE: 04/18/14



1 ENLARGED PLAN - LEVEL 1 - SOUTH BUILDING
GENERATOR ROOM AND ELEC SERVICE -DEMOLITION
SCALE: 1/4"=1'-0"



2 ENLARGED PLAN - LEVEL 1 - SOUTH BUILDING
ELEC SERVICE -NEW WORK
SCALE: 1/4"=1'-0"

PHOTO #1

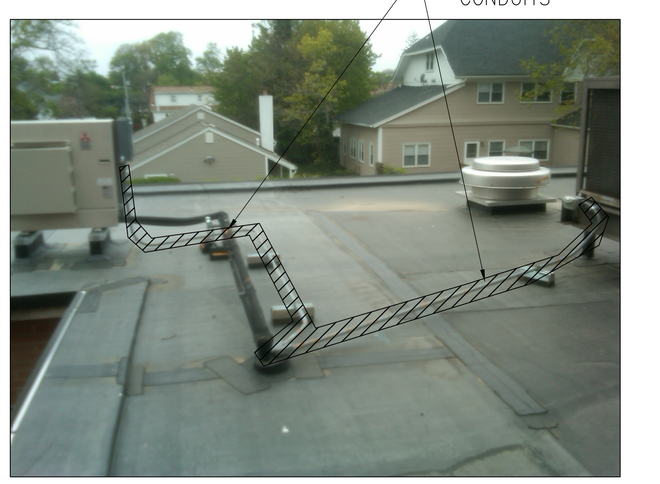


PHOTO #2

NOTES FOR LEVEL 1 - SOUTH BUILDING DETAIL 2

1/N REMOVE EXISTING LOUVERS AND PATCH WALL OPENING TO MATCH EXISTING BY OTHERS.

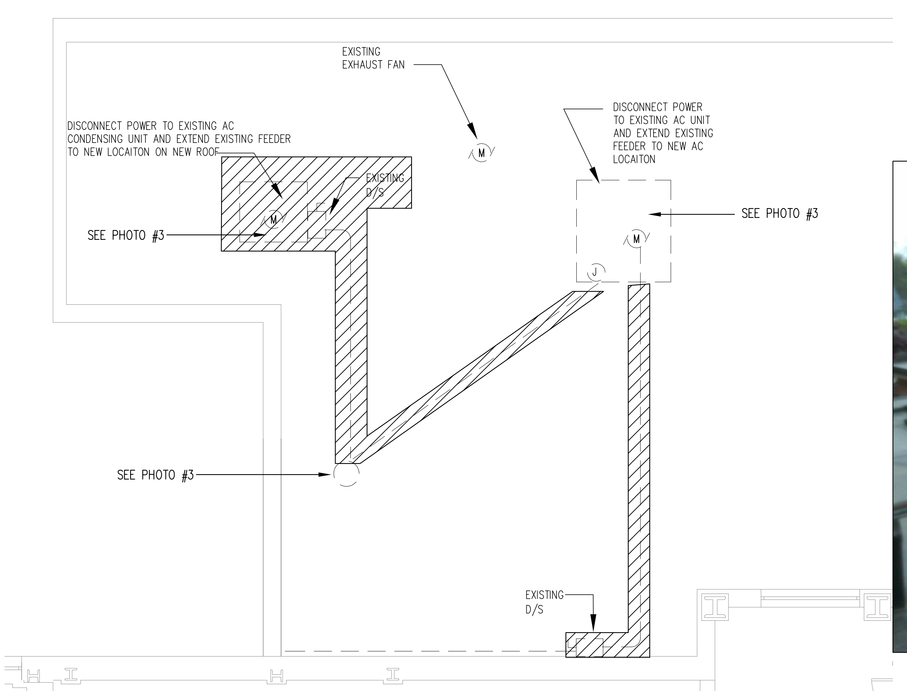
2/N REFER TO ALTERNATE ON DETAIL SHEET E-604. PROVIDE 800A NORMAL SERVICE SWITCH AND DISTRIBUTION BOARD FOR SOUTH BLDG. ADDITIONAL NORMAL POWER (FED FROM NORMAL POWER OF COURTYARD BUILDING).

3/N NEW PULL BOX FOR NORMAL FEEDER SERVING NEW ATS'S

4/N NEW 400AF/350AT TOTALLY ENCLOSED C/B FOR NEW 225KVA 208-480/277V STEP UP TRANSFORMER.

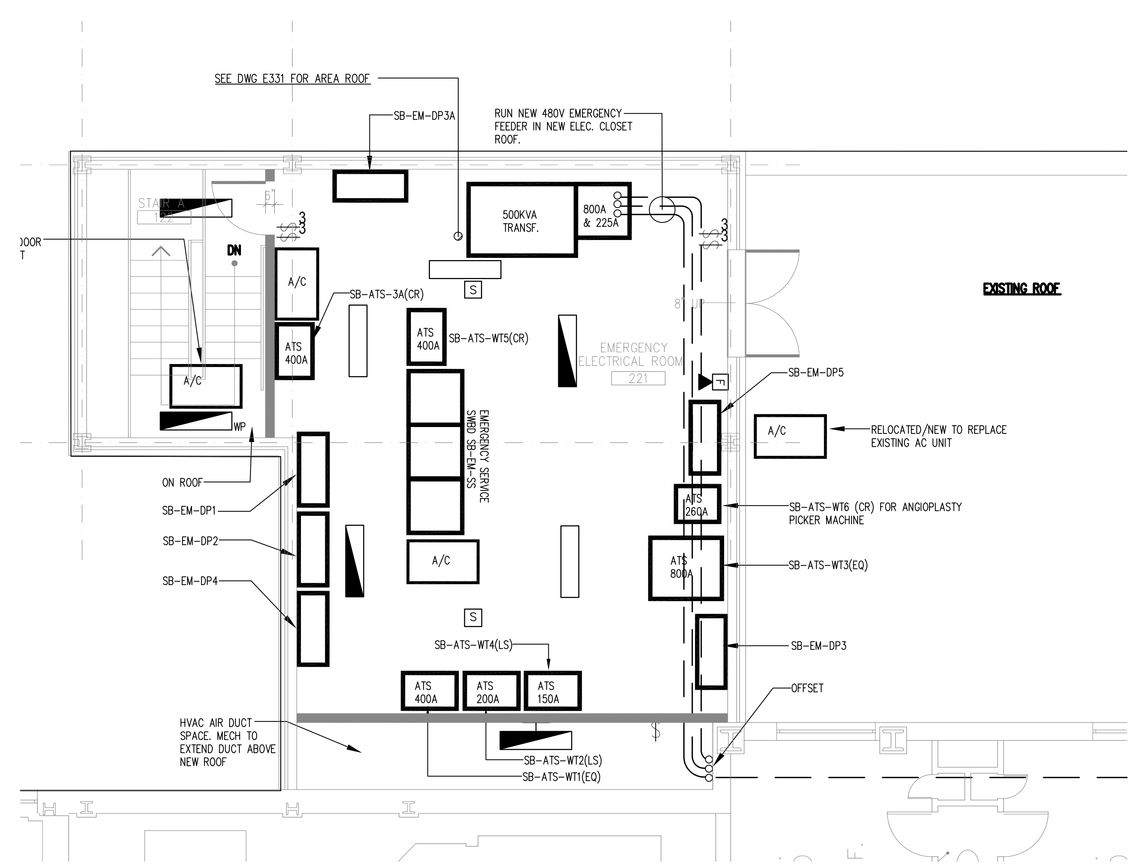
5/N NEW 225KVA, 208-480/277V STEP UP TRANSFORMER

6/N NEW 225A C/B (TOTALLY ENCLOSED)



3 ENLARGED PLAN - LEVEL 2 - SOUTH BUILDING
ROOF NEW EMERGENCY ELEC SERVICE -DEMOLITION
SCALE: 8"=1'-0"

PHOTO #3



4 ENLARGED PLAN - LEVEL 2 - SOUTH BUILDING
ROOF NEW EMERGENCY ELEC SERVICE -NEW WORK
SCALE: 1/4"=1'-0"

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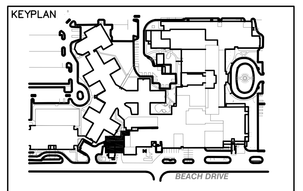

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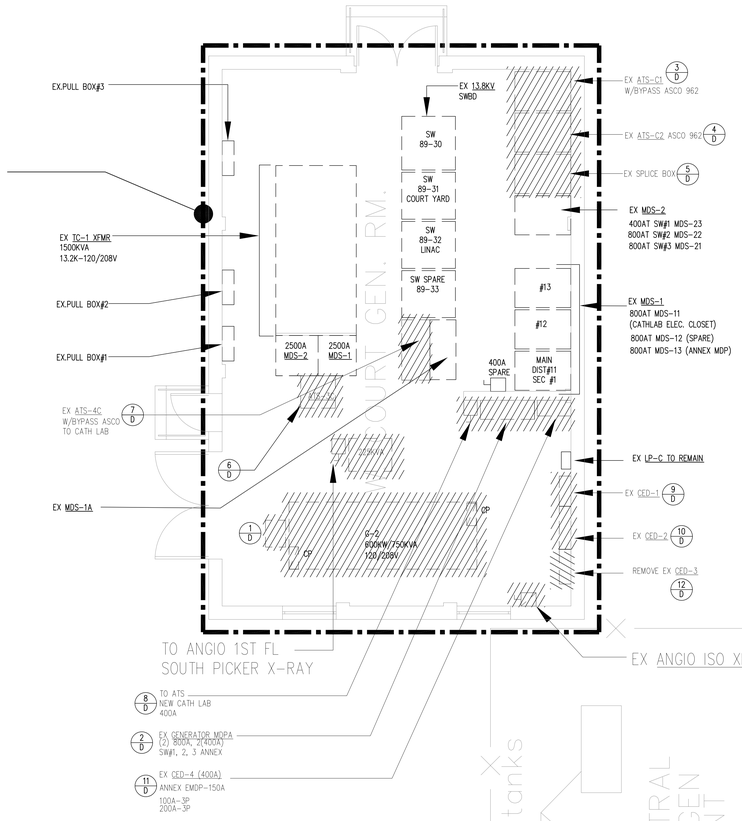
PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E603

DRAWING NAME
ELECTRICAL CLOSET DETAIL SHEET NO.3

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE601
BINDING ORDER	FIRST ISSUE DATE 04/28/14



1 ENLARGED PLAN - LEVEL 1 - COURTYARD -DEMOLITION
SCALE: 1/4"=1'-0"

NOTES FOR LEVEL 1 –COURTYARD DEMOLITION DETAIL 1

1/D REMOVE EXISTING 600KW GENERATOR(G2).

2/D REMOVE EXISTING GENERATOR MAIN DISTRIBUTION PANEL (MDPA).

3/D REMOVE EXISTING ATS–C1 AND ASSOCIATED NORMAL, EMERGENCY AND LOAD SIDE CONNECTION.

4/D REMOVE EXISTING ATS–C2 AND ASSOCIATED NORMAL, EMERGENCY AND LOAD SIDE CONNECTION.

5/D REMOVE EXISTING SPLICE BOX SECTION.

6/D REMOVE EXISTING ATS–3C(C3) AND ASSOCIATED NORMAL, EMERGENCY AND LOAD SIDE CONNECTION.

7/D REMOVE EXISTING ATS–4C AND ASSOCIATED NORMAL, EMERGENCY AND LOAD SIDE CONNECTION.

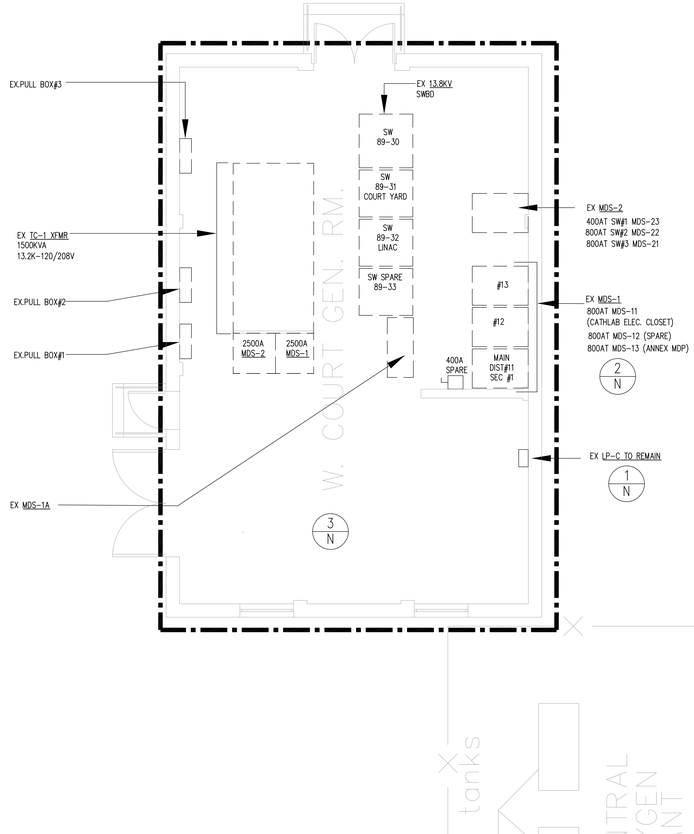
8/D REMOVE EXISTING EMERGENCY 400A DISCONNECT SWITCH SERVING ATS–4C

9/D REMOVE EXISTING EMERGENCY DP CED–1.

10/D REMOVE EXISTING EMERGENCY DP CED–2.

11/D REMOVE EXISTING EMERGENCY DP CED–4.

12/D REMOVE EXISTING EMERGENCY DP CED–3



2 ENLARGED PLAN - LEVEL 1 - COURTYARD -NEW WORK
SCALE: 1/4"=1'-0"

NOTES FOR LEVEL 1 –COURTYARD NEW WORK DETAIL 1

1/N PROVIDE POWER TO EXISTING PANEL LP–C FROM CATH LAB ROOF.

2/N IT'S NOT CLEAR OF SOUTH BLDG NORMAL POWER IS ADEQUATE, IF REQUIRED, PROVIDE NORMAL POWER FROM THIS SPARE SWITCH TO SOUTH BLDG FOR ADDED LOADS.

3/N PROVIDE WATERPROOF SEALANT FOR ALL CONDUIT EXIT FROM EXISTING COURTYARD ROOM

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
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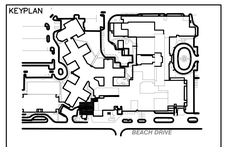
KEYPLAN



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

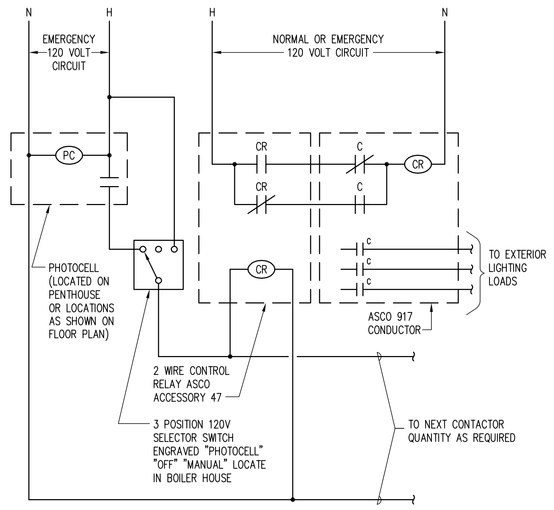
DRAWING NUMBER

E604

DRAWING NAME

ELECTRICAL CLOSET DETAIL SHEET NO.4

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE601
BINDING ORDER	FIRST ISSUE DATE 04/28/14

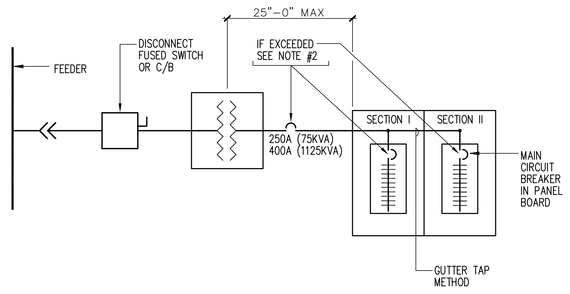


NOTE:

1. QUANTITY OF POLES TO MATCH CIRCUITS REQUIRED AND 25% SPARE.

1 PHOTOCELL CONTROLLED LIGHTING WIRING DIAGRAM

E208-080

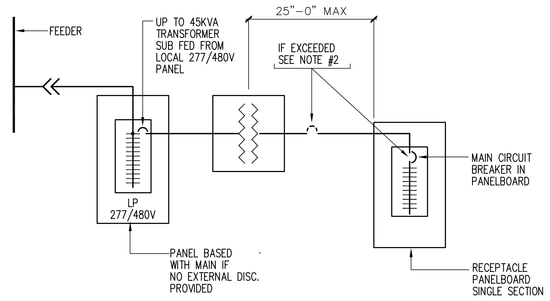


NOTES:

1. 120/208V, 3ø, 4W PANELBOARD BUS SIZES FOR FOLLOWING TRANSFORMER SIZES:
   75 KVA - 225A BUS SIZE - 125A MAIN CIRCUIT BREAKER
   112.5 KVA - 225A BUS SIZE - 200A MAIN CIRCUIT BREAKER
2. IF 25"-0" DISTANCE IS EXCEEDED THAN MAIN CIRCUIT BREAKER SHALL BE REMOVED FROM PANELBOARD AND PLACED AT SECONDARY SUPPLY OF THE TRANSFORMER.

2 75 KVA AND ABOVE FEEDING - TWO (2) SECTION PANEL

E302-080

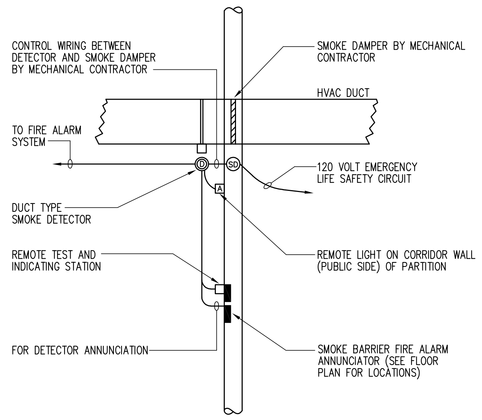


NOTES:

1. 120/208V, 3ø, 4W PANELBOARD BUS SIZES FOR FOLLOWING TRANSFORMER SIZES:
   15 KVA - 60A BUS SIZE - 50A MAIN CIRCUIT BREAKER
   30 KVA - 100A BUS SIZE - 100A MAIN CIRCUIT BREAKER
   45 KVA - 225A BUS SIZE - 175A MAIN CIRCUIT BREAKER
2. IF 25"-0" DISTANCE IS EXCEEDED THAN MAIN CIRCUIT BREAKER SHALL BE REMOVED FROM PANELBOARD AND SECONDARY PROTECTION PROVIDED AT SECONDARY SUPPLY OF THE TRASFORMER.

3 UP TO 45 KVA FEEDING - ONE PANEL

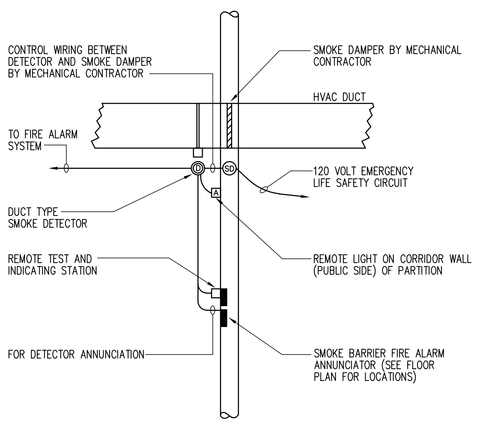
E303-080



NOTE
1.COORDINATE WITH HVAC PROVIDE (2) WIRES IF FSD STATUS REQUIRES TO BE MONITORED.

4 TYPICAL CONNECTIONS AT SMOKE BARRIERS ON COMBINATION SMOKE/FIRE BARRIERS

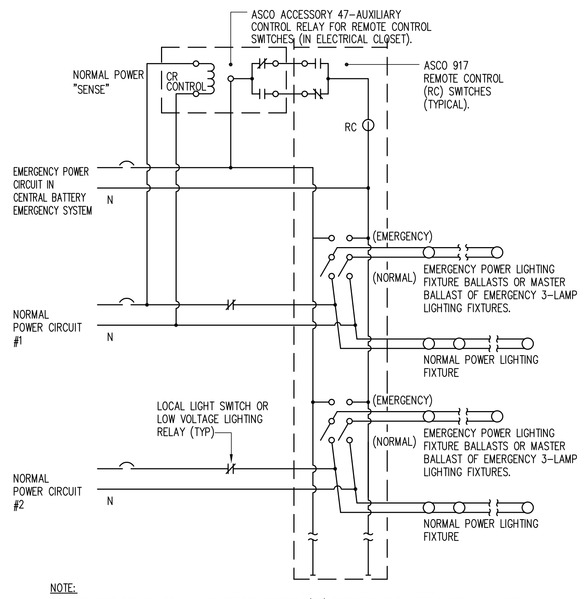
E901-080



NOTE
1.COORDINATE WITH HVAC PROVIDE (2) WIRES IF FSD STATUS REQUIRES TO BE MONITORED.

5 TYPICAL CONNECTIONS AT SMOKE BARRIERS ON COMBINATION SMOKE/FIRE BARRIERS

E901-080

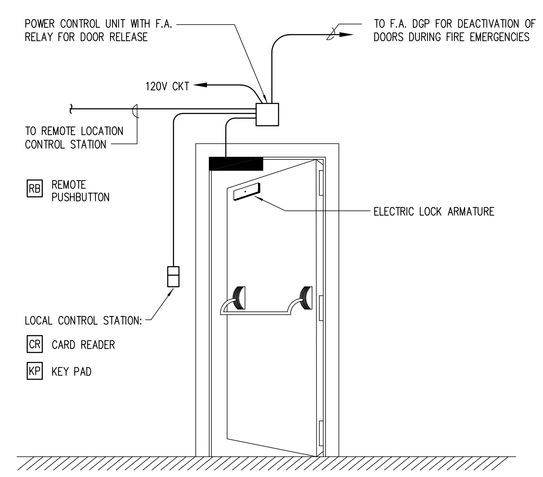


NOTE:

PROVIDE ASCO 917-66-20-7-1-XC REMOTE CONTROL (RC) SWITCHES, EACH WITH 6 NORMALLY OPEN AND 6 NORMALLY CLOSED CONTACTS AS REQUIRED, AND AN ASCO ACCESSORY 47 (AUXIL CONTROL RELAY FOR RC SWITCHES) FOR EACH SWITCH. USE 1 ASCO SWITCH FOR EACH EMERG POWER CIRCUIT. UNDER NORMAL POWER CONDITIONS, EACH NORMAL POWER CIRCUIT LIGHTING WHICH IS COMPRISED OF NORMAL AND EMERGENCY LIGHTING FIXTURES, IS SEPARATELY CONT UNDER EMERGENCY POWER CONDITION, THE ASCO SWITCH/ACCESSORY 47 SENSES THE ABSENCE POWER AT ITS CR CONTR

6 TYPICAL EMERGENCY LIGHTING WIRING DIAGRAM (SWITCHES SHOWN IN THE NORMAL POWER POSITION)

E904-080

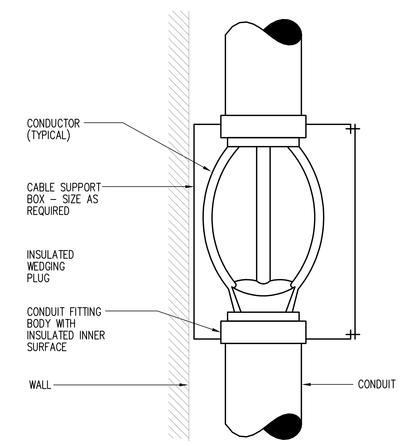


NOTES:

A. MODIFY AS REQUIRED FOR DOUBLE DOORS.
B. EQUIPMENT FURNISHED BY OTHERS, WIRED BY CONTRACTOR.

7 TYPICAL DOOR LAYOUT FOR ELECTROMAGNETIC LOCK SYSTEM

E905-080



NOTE:

ALL CONDUCTORS IN VERTICAL RACEWAYS SHALL BE SUPPORTED IN ACCORDANCE WITH ARTICLE 300-19 OF THE NATIONAL ELECTRICAL CODE. CABLE SUPPORTS SHALL BE LOCATED AT THE INTERVALS REQUIRED BY THE NEC. ALTERNATE METHODS OF CABLE SUPPORT MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

8 VERTICAL CABLE SUPPORT DETAIL

E906-080

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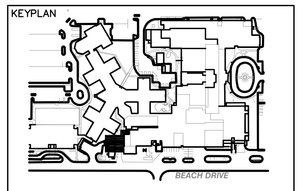
KEYPLAN



SEAL

REVISIONS	DATE	DESCRIPTION

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

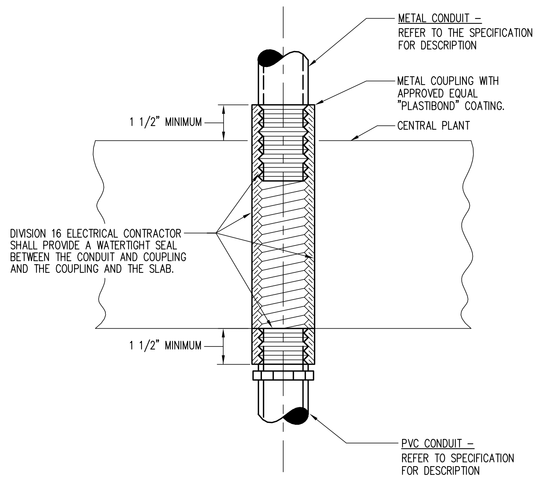
OWNER
GOOD SAMARITAN
HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E606

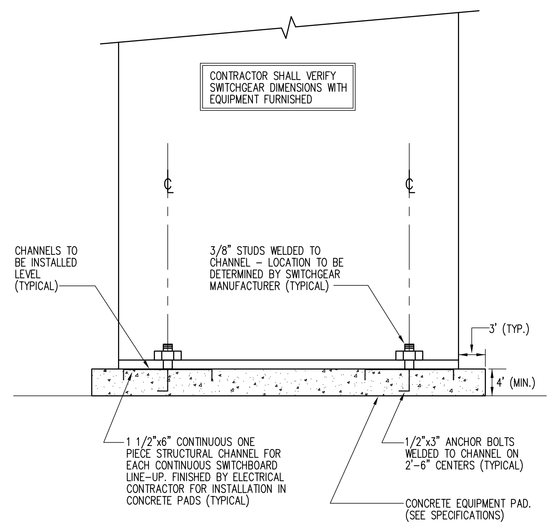
DRAWING NAME
ELECTRICAL DETAIL SHEET NO.1

DRAWING SCALE	DRAWING FILE
1/8"=1'-0"	GSHE606
BINDING ORDER	FIRST ISSUE DATE 12/17/14



1 CONDUIT SLAB AT GRADE PENETRATION DETAIL

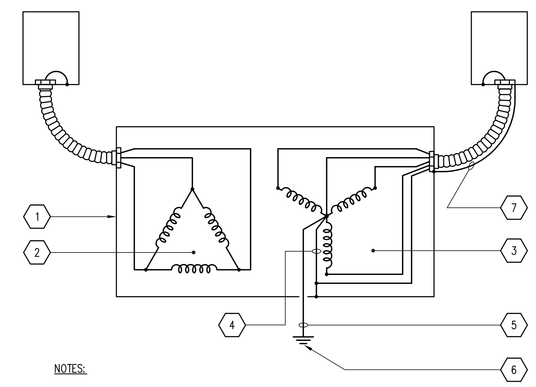
E913–080



NOTE: ANCHOR DETAIL TYPICAL FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.

2 SWITCHGEAR ANCHOR DETAIL

E908–080

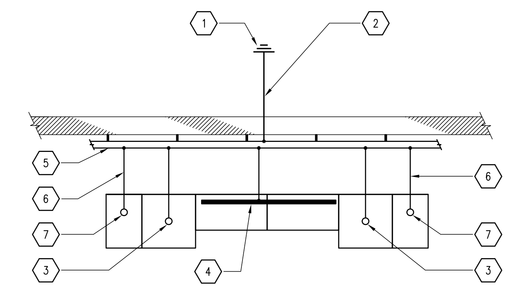


NOTES:

1. ENCLOSURE
2. PRIMARY WINDING
3. SECONDARY WINDING
4. BOND TO ENCLOSURE
5. GROUNDING ELECTRODE CONDUCTOR
6. GROUNDING ELECTRODE
7. FLEXIBLE CONDUIT WITH GROUNDING ELECTRODE CONDUCTOR

3 TRANSFORMER GROUNDING

E1002–080

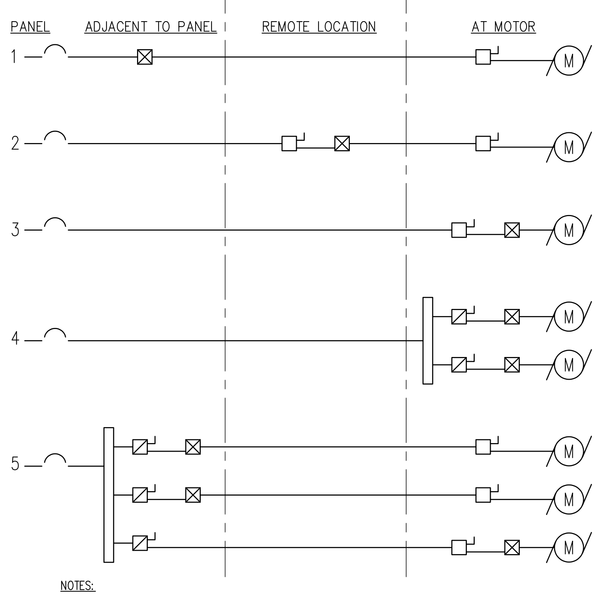


NOTES:

1. GROUNDING ELECTRODE SYSTEM
2. GROUNDING ELECTRODE CONDUCTOR
3. TRANSFORMER NEUTRAL GROUND
4. L.V. DISTRIBUTION EQUIPMENT GROUND BUS
5. GROUND BUS
6. GROUNDING ELECTRODE CONDUCTOR
7. SURGE PROTECTOR GROUND

4 INTERIOR SUBSTATION GROUNDING

E1003–080

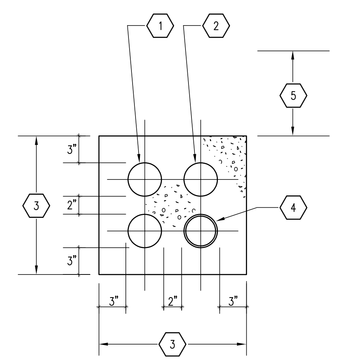


NOTES:

1. WHERE DISCONNECT SWITCHES ARE ADJACENT TO STARTERS, COMBINATION STARTERS MAY BE USED.
2. AN MCC IS EQUIVALENT TO A STARTER ADJACENT TO A PANEL (EXAMPLE 1).

5 REQUIREMENT FOR FUSED AND UNFUSED DISCONNECT SWITCHES FOR MOTORS AND MOTOR CONTROLLERS

E1004–080

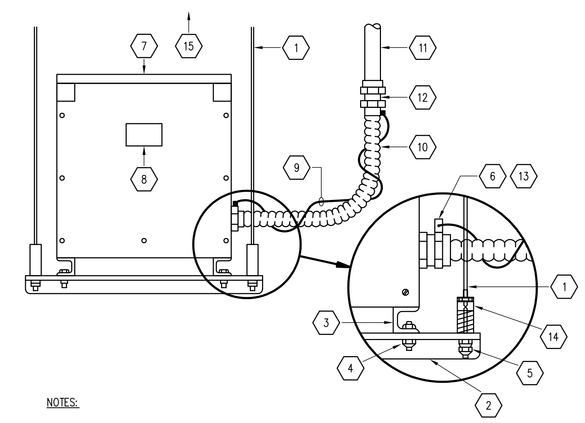


NOTES:

1. GALVANIZED RIGID STEEL CONDUIT
2. POURED IN PLACE CONCRETE ENVELOPE
3. DIMENSIONS SHOWN ARE MINIMUM SIZE, OVERALL DIMENSIONS TO SUIT REQUIREMENTS.
4. CONDUIT COUPLINGS TO BE STAGGERED, 6" BETWEEN ANY COUPLING MINIMUM SPACING.
5. 36" MINIMUM SIZE

6 CONCRETE ENCASED CONDUIT BANK

1006–080



NOTES:

1. 1/2"D. THREADED STEEL ROD SUPPORT FROM STRUCTURE ABV.
2. ANGLE IRON SUPPORT 3"x 3" 2 REQUIRED, LENGTH TO SUIT.
3. TRANSFORMER BASE CHANNEL
4. 1/2"D. NUT, BOLT & LOCKWASHER 4 REQUIRED.
5. 1/2"D. NUT, LOCKNUT & LOCKWASHER 4 REQUIRED.
6. SECONDARY CONNECTION DETAIL, PRIMARY – SIMILAR.
7. TRANSFORMER – MOUNT BOTTOM SUPPORTS 6'–6"A.F.F.
8. NAMEPLATE – CONNECTION DIAGRAM TO FACE CLOSET ENTRANCE
9. EXTERNAL COPPER BONDING WIRE
10. LIQUID TIGHT FLEXIBLE METAL CONDUIT 18"MIN.
11. RIGID CONDUIT
12. COMBINATION COUPLING
13. GROUND CONNECTOR
14. VIBRATION ELIMINATOR 4 REQUIRED
15. PROVIDE MISCELLANEOUS STEEL AS REQUIRED TO CONNECT TO STRUCTURE.

7 TRANSFORMER SUSPENSION DETAIL

E1010–080

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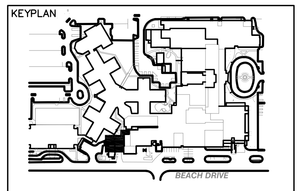

SEAL

REVISIONS	DATE	DESCRIPTION
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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
E607

DRAWING NAME
ELECTRICAL DETAIL SHEET NO.2

DRAWING SCALE	DRAWING FILE
NONE	GSHE607
BINDING ORDER	FIRST ISSUE DATE 12/17/14

1 MRI ROOF - ACCESS HATCH (ABOVE ELEC CLOSET)
SCALE: NONE

2 MRI ROOF AC UNIT
SCALE: NONE

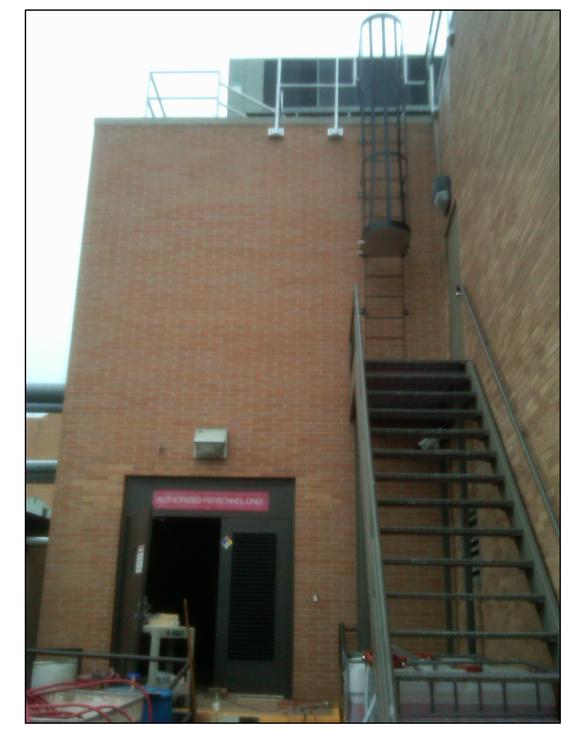
3 A. HENES BUILDING CONER AT GENERATOR LOCATION
SCALE: NONE

4 A. HENES BUILDING CONER AT GENERATOR LOCATION LOOKING DOWN
SCALE: NONE

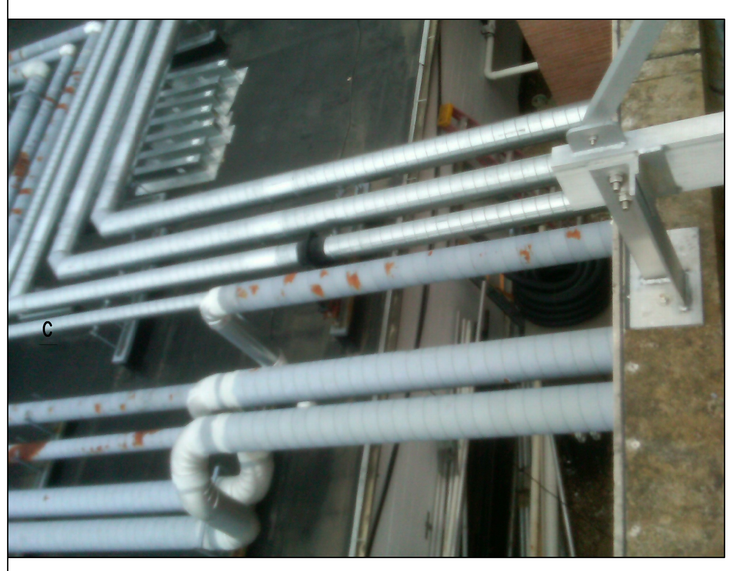
5 LOADING DOCK AREA -GAS RISER LOCATION
SCALE: NONE

6 ROOF OF BAXTER BLDG AND CONNECTION TO A.HENES
SCALE: NONE

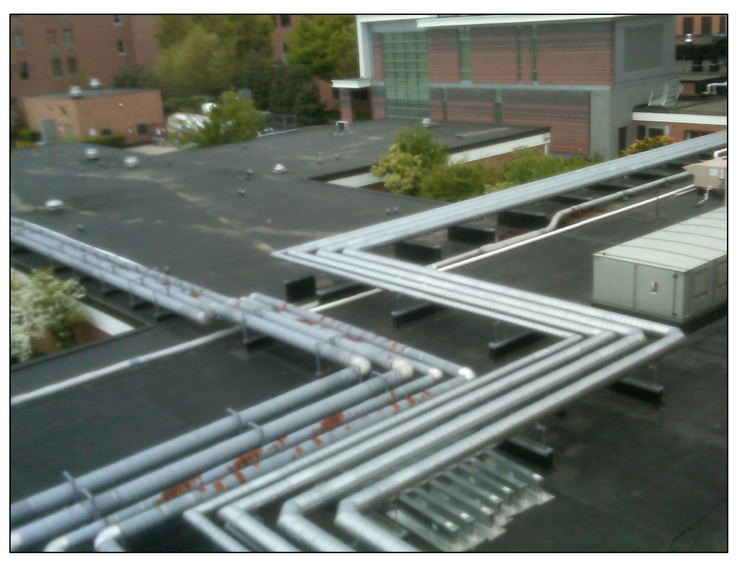
7 A.HENES BUILDING ROOF
SCALE: NONE



8 POWER PLANT BUILDING EAST VIEW
SCALE: NONE



9 EXISTING HVAC PIPING LEAVING CHILLER PLANT ROOM
SCALE: NONE



10 EXISTING HVAC PIPING CONTINUE RUNNING ON BUILDING ROOF
SCALE: NONE

11 EXISTING HVAC PIPING CONTINUE RUNNING ON BUILDING ROOF
SCALE: NONE

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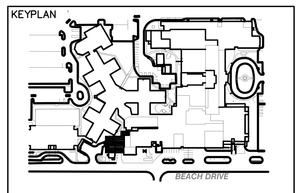
KEYPLAN



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OWNER
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1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E610

DRAWING NAME
ELECTRICAL DETAIL SHEET NO. 03

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE605
BINDING ORDER	FIRST ISSUE DATE 3/31/14

1 HVAC PIPING ISOLATION VALVES
SCALE: NONE

2 HVAC PIPING TO EAST OF MAIN BUILDING
SCALE: NONE

3 EXISTING HVAC PIPING SUPPORTING
SCALE: NONE

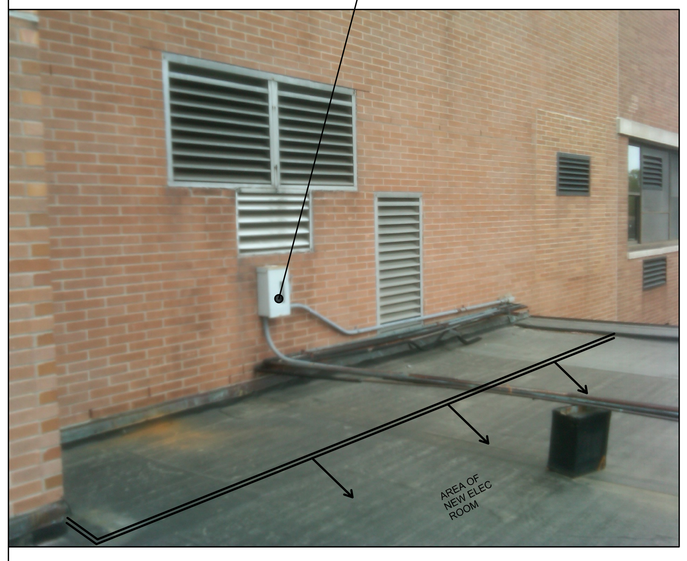
4 EXISTING HVAC PIPING SUPPORTING DETAIL
SCALE: NONE

5 EXISTING POWER PLANT OVERALL VIEW
SCALE: NONE

6 EXISTING POWER PLANT ROOF CORNER
SCALE: NONE

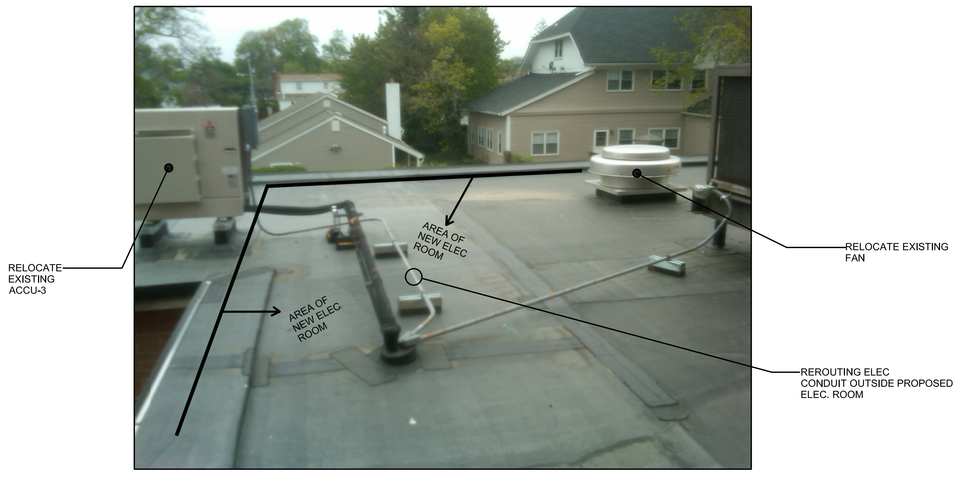
7 ROOF OF BAXTER BLDG AND CONNECTION TO A.HENES
SCALE: NONE

8 EAST END ELEVATION OF SOUTH BUILDNIG
SCALE: NONE



9 SOUTH BUILDING ROOF (OUTSIDE MECH ROOM)
SCALE: NONE

10 SOUTH BUILDING EXISTING ROOF HVAC EQUIPMENT
SCALE: NONE



11 SOUTH BUILDING EXSTING ROOF HVAC EQUIPMENT
SCALE: NONE

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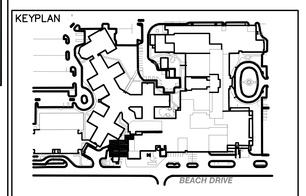

SEAL

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

E611

DRAWING NAME

ELECTRIC
DETAIL SHEET NO. 02

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE606
BINDING ORDER	FIRST ISSUE DATE
	3/31/14

BRANCH CIRCUIT PANELBOARD SCHEDULE

PANEL: RP-2-1 | 120/208V, 3 PHASE, 4 W+G | 22 ,000MIN A.I.C. SYM | NEUTRAL: 100%
MOUNTING: SURFACE X | FLUSH | NUMBER OF POLES: 42
MAIN LUGS ONLY | SHUNT TRIP MAIN | FEED THRU LUG
AMP MAIN CB 200 | AMP BUS 225 | GROUND BUS: X | ISOLATED GROUND BUS:

CKT No.	LOAD	TRIP (AMP)	KW / PHASE A	B	C	POLES		KW / PHASE A	B	C	TRIP (AMP)	LOAD	CKT No.
1		30				1	2				30		2
3	SPARE					3	4					SPARE	4
5		3P				5	6				3P		6
7	REC-FIRST FLOOR	20	1.26			7	8				20	LTG-1ST FLOOR	8
9	REC-FIRST FLOOR	20		1.08		9	10				20	LTG-1ST FLOOR	10
11	REC-ROOF	20			0.54	11	12				20	LTG-1ST FLOOR	12
13	REC-3RD FLOOR	20	0.90			13	14				20	LTG-2ND FLOOR	14
15	SPARE	20				15	16				20	LTG-2ND FLOOR	16
17	SPARE	20				17	18				20	SPARE	18
19	SPARE	20				19	20				20	SPARE	20
21	SPARE	20				21	22				20	SPARE	22
23	SPARE	20				23	24				20	SPARE	24
25	SPARE	20				25	26				20	SPARE	26
27	SPARE	20				27	28				20	SPARE	28
29	SPARE	20				29	30				20	SPARE	30
31	SPARE	20				31	32				20	SPARE	32
33	SPARE	20				33	34				20	SPARE	34
35	SPARE	20				35	36				20	SPARE	36
37	SPARE	20				37	38				20	SPARE	38
39	SPARE	20				39	40				20	SPARE	40
41	SPARE	20				41	42				20	SPARE	42

SUBTOTALS		2.16	1.08	0.54	0.00	0.00	0.00
TOTAL LOADS	2.2	KVA	PHASE A		DEMAND FACTOR	80%	
	1.1	KVA	PHASE B		DEMAND LOAD	3.02	KVA
	0.5	KVA	PHASE C		LOAD X 1.25%	3.78	KVA
TOTAL CONN. LOAD	3.8	KVA			AMP	10.50	

REMARKS: * PROVIDE GFI CIRCUIT BREAKER

DISTRIBUTION PANELBOARD SCHEDULE

PANEL: ELP-3-1 | 277/480V, 3 PHASE, 4 W+G | 65 ,000MIN A.I.C. SYM | NEUTRAL: 100%
MOUNTING: SURFACE X | FLUSH | NUMBER OF POLES: 42
MAIN LUGS ONLY | SHUNT TRIP MAIN | FEED THRU LUG
AMP MAIN CB 400 | AMP BUS 400 | GROUND BUS: X | ISOLATED GROUND BUS:

CKT No.	LOAD	TRIP (AMP)	KW / PHASE A	B	C	POLES		KW / PHASE A	B	C	TRIP (AMP)	LOAD	CKT No.
1		125	25.00			1	2				60		2
3	75KVA NEW TRANSFORMER			25.00		3	4					SPARE	4
5	FOR:ERP-3-1	3P			25.00	5	6				3P		6
7		60				7	8				60		8
9	SPARE					9	10					SPARE	10
11		3P				11	12				3P		12
13		100				13	14				30		14
15	LOAD BANK FAN					15	16					EF-R-1	16
17		3P				17	18				3P		18
19		30				19	20				30		20
21	ATS-1-1(FOP-1-1/2)					21	22					EF-R-2	22
23		3P				23	24				3P		24
25		30				25	26				30		26
27	ATS-1-2 (FOR-1-3/4)					27	28					EF-R-3	28
29		3P				29	30				3P		30
31		50				31	32				30		32
33	SPARE					33	34					SPARE	34
35		3P				35	36				3P		36
37	SPARE	20				37	38				20	SPARE	38
39	SPARE	20				39	40				20	SPARE	40
41	SPARE	20				41	42				20	SPARE	42

SUBTOTALS		25.00	25.00	25.00	0.00	0.00	0.00
TOTAL LOADS	25.0	KVA	PHASE A		DEMAND FACTOR	80%	
	25.0	KVA	PHASE B		DEMAND LOAD	60.00	KVA
	25.0	KVA	PHASE C		LOAD X 1.25%	75.00	KVA
TOTAL CONN. LOAD	75.0	KVA			AMP	90.36	

REMARKS: * PROVIDE GFI CIRCUIT BREAKER

BRANCH CIRCUIT PANELBOARD SCHEDULE

PANEL: ERP-3-1 | 120/208V, 3 PHASE, 4 W+G | 22 ,000MIN A.I.C. SYM | NEUTRAL: 100%
MOUNTING: SURFACE X | FLUSH | NUMBER OF POLES: 42
MAIN LUGS ONLY | SHUNT TRIP MAIN | FEED THRU LUG
AMP MAIN CB 200 | AMP BUS 225 | GROUND BUS: X | ISOLATED GROUND BUS:

CKT No.	LOAD	TRIP (AMP)	KW / PHASE A	B	C	POLES		KW / PHASE A	B	C	TRIP (AMP)	LOAD	CKT No.
1	REC-1ST & 2ND FLOOR	20	1.08			1	2				20	EXIT SIGN - ROOF & 3RD F	2
3	REC-3RD FLOOR	20		1.08		3	4				20	EXIT SIGN - 2ND/1ST FL	4
5	LTG-FIRST FLOOR	20			0.72	5	6				20	LTG-STAIRCASE	6
7	LTG-FIRST FLOOR	20				7	8				20	LTG-STAIRCASE	8
9	LTG-SECOND FLOOR	20				9	10				20	LTG-ROOF	10
11	LTG-SECOND FLOOR	20				11	12				20	SPARE	12
13	LTG-THIRD FLOOR	20				13	14				20	SPARE	14
15	LTG-THIRD FLOOR	20				15	16				20	SPARE	16
17	SPARE	20				17	18				20	SPARE	18
19	SPARE	20				19	20				20	SPARE	20
21	SPARE	20				21	22				20	SPARE	22
23	SPARE	20				23	24				20	SPARE	24
25	SPARE	20				25	26				20	SPARE	26
27	SPARE	20				27	28				20	SPARE	28
29	SPARE	20				29	30				20	SPARE	30
31	SPARE	20				31	32				20	SPARE	32
33	SPARE	20				33	34				20	SPARE	34
35	SPARE	20				35	36				20	SPARE	36
37	SPARE	20				37	38				20	SPARE	38
39	SPARE	20				39	40				20	SPARE	40
41	SPARE	20				41	42				20	SPARE	42

SUBTOTALS		1.08	1.08	0.72	0.00	0.00	0.00
TOTAL LOADS	1.1	KVA	PHASE A		DEMAND FACTOR	80%	
	1.1	KVA	PHASE B		DEMAND LOAD	2.30	KVA
	0.7	KVA	PHASE C		LOAD X 1.25%	2.88	KVA
TOTAL CONN. LOAD	2.9	KVA			AMP	8.00	

REMARKS: * PROVIDE GFI CIRCUIT BREAKER

NEW LED LIGHTING FIXTURES SCHEDULE

NEW LED LIGHTING TYPE	NEW LED LIGHTING DESCRIPTION/MFR	VOLTAGE	WATTS	LAMPS	AREAS SERVED
A	1'X4' PENDANT LED FIXTURE CREE LIGHTING # CS14-40L HE-35K	120/277V	37	LED	ELECTRICAL ROOMS
B	DIRECT MOUNT CANOPY LED FIXTURE CREE LIGHTING # CAN-EDG-25-DM-06-D-UL-*-350	120/277V	68	LED	CANOPY
C	1'X4' WALL/SURFACE MOUNTED STAIR LED FIXTURE CREE LIGHTING # LS4-40L-35K	120/277V	44	LED	STAIRS
D	EXTERIOR LED WALL PACK FIXTURE CREE LIGHTING # XSPWA02FC-U	120/277V	48	LED	EXTERIOR WALLS
X	LED EXIT LIGHT	120/277V	5	LED	EGRESS

NOTES:

1. ALL EMERGENCY LIGHTING FIXTURES IN EMERGENCY GENERATOR ROOM, PARALLELING SWITCHGEAR ROOM, ELECTRICAL ROOM & STAIRCASE OF NEW EMERGENCY GENERATOR PLANT TO HAVE 90 MINUTE MINIMUM BATTERY BACKUP.

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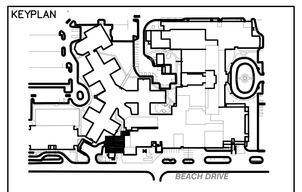

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HOSPITAL MEDICAL CENTER
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

DRAWING NUMBER
E700

DRAWING NAME
ELECTRICAL
LIGHTING AND
PANEL SCHEDULES

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE705
BINDING ORDER	FIRST ISSUE DATE 5/14/14

CHS Summary of Emergency Power Transfer Switch information - Good Samaritan Hospital Medical Center

Transfer switch service company name	**Emerson Power (ASCO)**
Contact name	**Ralf Erlenheff- Account Representative**
Phone # 1	**Mobile: 201-787-2158**
Contact name #2	**Jacqeuline Rodriguez - Service Manager**
Phone #2	**Work 973-966-2522**
Emergency Service	**800-800-ASCO (2726)**

					Type 1 EES Distribution Branch					Flood Vulnerability											
Generator	**Facility**	**Generator**	**Transfer switch #**	**Equip Designation**	**Critical Branch**	**Life Safety Branch**	**Equip. Branch**	**Mixed**	**Location**	**1st Floor**	**2nd Floor or Above**	**Year installed**	**Amps**	**Volts**	**Areas served**	**Manuf**	**Model#**	**Ser#**	**Remove (R) Or to Remain**	**Notes**	**Modification to Existing ATS to Remain**
GENERATOR G4 -DWG E-																					
G4	GSH	North Tower	1	NT-ATS-1			X		6th Floor MER		X	1980	800	480	NT Equipment	ASCO	E962380099XC	890726	R		
460KW	GSH	North Tower	2	NT-ATS-2	X				6th Floor MER		X	1980	400	480	NT Critical	ASCO	E962340099	890727	R		
575KVA	GSH	North Tower	3	NT-ATS-3		X			6th Floor MER		X	1980	150	480	NT Life Safety	ASCO	E962315099X	890728	R		
277/480V	GSH	North Tower	4	ATS-LSR		X			New 6Fl MER - East		X	2012	150	480	4th Floor ICU / Cardiac OR's	ASCO	J07ATBB30150N5XC	77687-WE	Remain		1 PS1
North Tower	GSH	North Tower	5	ATS-EQR			X		New 6Fl MER - East		X	2012	600	480	4th Floor ICU / Cardiac OR's	ASCO	H07ATBB30600N5XC	77684-002WE	Remain		1 PS1 PLUS LOAD SHEDDING
GS-E5	GSH	North Tower	6	ATS-CB	X				New 6Fl MER - East		X	2012		480	4th Floor ICU / Cardiac OR's	ASCO	J07ATBB30400N5XC	833870-WE	Remain		
GENERATOR G5 -E-502, E-506 AND E-506A																					
G5	GSH	Power Plant	7	7W-Crit	X				7th Floor West MER		X	1996	200	208	6th Floor Nursery	Cummins	BTPCB-5692265	IO40689953	R	See note 3	
500KW	GSH	Power Plant	8	7W-LS		X			7th Floor West MER		X	1996	200	208	6th Floor Nursery	Cummins	BTPCB-5692265	IO40689954	R		NEW ATS 28" DEEP 81"H
625KVA	GSH	Power Plant	9	7W-Mech			X		7th Floor West MER		X	1996	200	208	6th Floor Nursery	Cummins	BTPCB-5692265	IO40689955	R		NEW ATS 28" DEEP 81"H
120/208	GSH	Power Plant	10	ATS B-1				X	Boiler Room Mezz		X	1960	400	208	Shop Emer Pnl, Well Pump, Med Air Pumps	ASCO	962340049XC	03158-X	R	See note 4	
	GSH	Power Plant	11	ATS B-2				X	Boiler Room Mezz		X	1960	400	208	MIS A/C	ASCO	C386340042C	966225	R	See noet 4	
	GSH	Power Plant (MB)	12	ATS-MEE-Main Bldg				X	7 East		X	1960	800	208	Main Building - East	ASCO	6MTBOE-4ETU	Y5175	R	See note 1	
	GSH	Power Plant(MB)	13	ATS-MWE-Main Bldg				X	7 West		X	2005	800	208	Main Building - West	ASCO	G7ATBC31200C5C	145789	R		
	GSH	Power Plant (BX)	14	E-MDP ATS				X	C-Unit El Closet	X		1975	300	208	All Baxter Emergency Power	Zenith			R	W/New 260A	
	GSH	Power Plant (MB)	15	ATS-ME-CR	X				7East MER		X	2012	600	208	Main Building Critical Power	ASCO	J07ATBB30600C5XC	875165-001WE	Remain		1 PS1
	GSH	Power Plant (MB)	16	ATS-MW-CR	X				7East MER		X	2012	600	208	Main Building Critical Power	ASCO	J07ATBB30600C5XC	875165-002WE	Remain		1 PS1
GENERATOR G1 - E-507																					
G1	GSH	A. Henes	17	ATS-A-LS		X			Henes 1FL MER	X		1998	225	480	ER Life Safety	Cummins	BTPCB-5005470	K010309428	R		
750KW	GSH	A. Henes	18	ATS-B-CB	X				Henes 1FL MER	X		1998	225	480	ER Critical	Cummins	BTPCB-5005470	K010309429	R	See noe 1,5	
937.5KVA	GSH	A. Henes	19	ATS-CR	X				Henes 1FL MER	X		1998	225	480	ASU So./So OR Critical	ASCO	E962326097XC	902350-002	R		
277/480V	GSH	A. Henes	20	ATS-C-Mech			X		Henes 1FL MER	X		1998	225	480	ER Mechanical	Cummins	BTPCB-5005470	K010309430	R		
	GSH	A. Henes	21	ATS-MECH			X		Henes 1FL MER	X		1998	600	480	ASU So. / So OR Mech	ASCO	E962326097XC	902350-003	R	See note 1,5	
	GSH	A. Henes	22	ATS-LS		X			Henes 1FL MER	X		1998	250	480	ASU So. / So OR Life Safety	ASCO	E962326097XC	902350-001	R	See note 1,5	
	GSH	A. Henes	23	ATS - FP		X			Henes Fire Pump Rm	X		1998	250	480	Henes Fire Pump(75HP)				Remain		NO WORK (SEE ALTERNATE ON E004)
GENERATOR G3 -E-507A																					
G3- **40**0KW	GSH	MRI	24	MRI-ATS				X	MRI MER @GRADE	X		2002	600	480	MRI BUILDING	ASCO	F7ATBC3600N5C	185853-2	Remain		GROUP 5 COMMUNICATION MODULE 72E ACCESSORIES 1 PS1
GENERATOR G7 -E-504																					
G7	GSH	South Gen	25	ATS -WT5				X	West Drive @ grade	X		1970	400	208	Sleep	ASCO	E962340047C	316035-001	R		
400KW	GSH	South Gen	26	ATS -WT1				X	West Drive @ grade	X		1970	400	208	Pharmacy, Lab, 2 South ICU, 3 South	Fed Pacific	4003C-V5	4247-1	R		
500KVA	GSH	South Gen	27	ATS -WT2				X	West Drive @ grade	X		1970	400	208	Pharmacy, Lab, 2 South ICU, 3 South	Fed Pacific	4003C-V5	4247-2	R		
120/208V	GSH	South Gen	28	ATS -WT3				X	West Drive @ grade	X		1970	400	208	Admin	Fed Pacific	4003C-V5	4247-3	R		
	GSH	South Gen	29	ATS -WT4				X	West Drive @ grade	X		1970	400	208	Pharmacy, Lab, 2 South ICU, 3 South	Fed Pacific	4003C-V5	4247-4	R		
GENERATOR G6 -E-508																					
G6	GSH	Radiology	30	ATS -LS		X			2nd Floor PH		X	2012	260	480	Radiology Life Safety	ASCO	J07ATBB30260N5XC	777686-003WE	Remain		1 PS1
350KW	GSH	Radiology	31	Critical ATS (ATS-MED)	X				2nd Floor PH		X	2012	600	480	Radiology Critical	ASCO	H07ATBB30600N5XC	777684-001WE	Remain		1 PS1
437KVA	GSH	Radiology	32	ATS-Mech			X		2nd Floor PH		X	2012	400	480	Radiology Equipment	ASCO	J07ATBB30400N5XC	777685-WE	Remain		1 PS1
277/480V	GSH	Radiology	33	ATS-CR1					2nd Floor PH		X	2012	260	480	Not In Use	ASCO	J07ATBB30260N5XC	777686-001WE	Remain	See note 1	1 PS1
	GSH	Radiology	34	ATS-CR2					2nd Floor PH		X	2012	260	480	Not In Use	ASCO	J07ATBB30260N5XC	777686-002WE	Remain		
GENERATOR G2 -E-503 AND E-503A																					
G2	GSH	Courtyard	35	Annex ATS				X	Annex MER below grade	X		1964	100	208	Annex Bldg	ASCO	906165	33431-X	R		
600KW	GSH	Courtyard	36	COURTYARD ATS C1				X	Z	X		1980	400	208	CY Gen Bldg, Cath Lab Elec Clst	ASCO	E962340047C	998232	R		
750KVA	GSH	Courtyard	37	COURTYARD ATS C2				X	E	X		1980	800	208	Cath Lab Xray 1, Annex Dialysis	ASCO	E962380047C	998231	R		
120/208V	GSH	Courtyard	38	COURTYARD ATS C3				X	Z	X		1990	800	208	Resp Elec Clst, LINAC, MIS Computer Room, MIS UPS	Russell	RTBNB80099XC	33574-1B	R	See note 5	
	GSH	Courtyard	39	COURTYARD ATS C4				X	CY Gen Bldg	X		1980	400	208	CATH LAB / Angio	ASCO	E7ATBA340049XC	217777-001	R		
	LAB	Regional Lab	40	ATS 1				X	1st Floor MER	X		2008	1000	480	All Lab Emergency Equip	ASCO			NIC		
	CDC LH	Lindenhurst	41	CDC LH				X	1st Floor MER	X		2002	400	208	LH Dialysis Lighting and equipment	Cummins	OTC-4475855	A000052116	NIC		
	CDC BS	Bay Shore	42	CDC BS				X	1st Floor MER	X		1980	225	208	BS Dialysis Center	Cummins	OTPC225-566	F040660325	NIC		

Notes:

1 Replace Existing ATS with new . Size to match existing
2 Provide power to Cath lab #3 from this ATS
3 Remove and relocate this ATS on 7th floor of main building
4 Remove existing ATS. Replace with different size and qty new ATS
5 All cummins ATS to be replaced
6 1 PS1 - ATS Battery for Monitoring Communication Power

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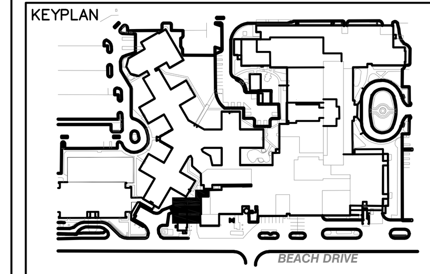

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ISSUE	DATE	DESCRIPTION
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3	03.20.15	100% CD PROGRESS FOR REVIEW
2	12.31.14	85% CONSTRUCTION DOCUMENT
1	07.30.14	100% DESIGN DEVELOPMENT

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

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E701

DRAWING NAME
EXISTING GENERATOR AND ATS SUMMARY

DRAWING SCALE: AS NOTED
DRAWING FILE: GSHE701
BINDING ORDER
FIRST ISSUE DATE: X/X/14

CHS Summary of Emergency Power Transfer Switch information - Good Samaritan Hospital Medical Center	
Transfer switch service company name	
Contact name	
Phone # 1	**201-787-2158**
Contact name #2	
Phone #2	**973-966-2522**
Emergency Service	

BUILDING	NO	ATS DESIGNATION		Type 1 EES Distribution Branches					ATS POLES	ATS ACCESSORY					Estimate Priority Loads (KW)			Remarks	NO.
		NEW	EXISTING TO REMAIN	Critical (CR)	Life Safety (LS)	Equip. (EQ)		Location			Amps	Volts	Areas served	PRIORITIES	P#1	P#2	P#3		
NORTH BULDING (NB) OR NORTH TOWER (NT)	1	NB-ATS-1(EQ)				X		6th Floor MER	3	IN PHASE MONITOR	800	480	NB Equipment	2.0					1
	2	NB-ATS-2(CR)		X				6th Floor MER	3	N/A	400	480	NB Critical	1.0					2
	3	NB-ATS-3(LS)			X			6th Floor MER	3	IN PHASE MONITOR	150	480	NB Life Safety	1.0					3
	4		NB-ATS-LSR(LS)		X			New 6Fl MER - East	3	N/A	150	480	4th Floor ICU / Cardiac OR's	1.0					4
	5		NB-ATS-EQR(EQ)			X		New 6Fl MER - East	4	N/A	600	480	4th Floor ICU / Cardiac OR's	2.0					5
	6		NB-ATS-4(CR)	X				New 6Fl MER - East	3	N/A	400	480	4th Floor ICU / Cardiac OR's	1.0					6
MAIN BUILDING(MB)	7	MB-ATS-2B(CR)		X				7th Floor West MER	4	N/A	N/A	N/A	N/A						7
	8	MB-ATS-3B(LS)			X			7th Floor West MER	4	N/A	200	208	7W-LS	1.0					8
	9	MB-ATS-4B(EQ)				X		7th Floor West MER	4	N/A	200	208	7W-CR	2.0					9
	10	MB-ATS-7-LS			X			Boiler Room Mezz	4	N/A	200	208	7TH FLOOR EAST 7E-LS	1.0					10
	11	MB-ATS-MEE(EQ)				X		7TH Floor MER east 7TH Floor MER w est	4	IN PHASE MONITOR	800	208	EMERGENCY SWBD MEE EAST	1.0					11
	12		MB-ATS-MWE(CR)	X				Boiler Room Mezz	4	IN PHASE MONITOR	800	208	7TH FLOOR EMERG SWBD MWE (EAST)	1.0					12
	13		MB-ATS-ME-CR(CR)	X				7 East MER	4	IN PHASE MONITOR	600	208	Main Building - East	2.0					13
	14		MB-ATS-MW-CR(CR)	X				7 West MER	4	IN PHASE MONITOR	400	208	Main Building - West						14
AUGUSTA HENES(AH)	15	AH-ATS-A-LS(LS)			X			Henes 1FL MER	3	IN PHASE MONITOR	225	480	ER Life Safety	1.0					15
	16	AH-ATS-B-CB(CR)		X				Henes 1FL MER	3	IN PHASE MONITOR	225	480	ER Critical	1.0					16
	17	AH-ATS-CR(CR)		X				Henes 1FL MER	3	IN PHASE MONITOR	225	480	ASU So./So OR Critical	1.0					17
	18	AH-ATS-C-Mech(EQ)				X		Henes 1FL MER	3	IN PHASE MONITOR	225	480	ER Mechanical	3.0					18
	19	AH-ATS-MECH(EQ)				X		Henes 1FL MER	3	IN PHASE MONITOR	600	480	EDP-MECH	3.0					19
	20	AH-ATS-LS(LS)		X				Henes 1FL MER	3	IN PHASE MONITOR	150	480	ASU So. / So OR Life Safety	1.0					20
	21		ATS-FP(LS)		X			Henes Fire Pump Rm	3	IN PHASE MONITOR	250	480	Henes Fire Pump(75HP)	1.0					21
MRI BUILDING(MRI)	22		MRI-ATS-1M(EQ)			X		MRI MER @GRADE	4	IN PHASE MONITOR	600	480	MRI BUILDING	3.0					22
SOUTH BULDING (SB)	23	SB-ATS -WT5(CR)		X				2 ND FLOOR-SOUTH BLDG	4		400	208	SEE RISER E504-SB(N)	1.0					23
	24	SB-ATS -WT1(EQ)				X		2 ND FLOOR-SOUTH BLDG	4		400	208	SEE RISER E504-SB(N)	3.0					24
	25	SB-ATS -WT2(LS)			X			2 ND FLOOR-SOUTH BLDG	4		200	208	SEE RISER E504-SB(N)	1.0					25
	26	SB- ATS -WT3(EQ)				X		2 ND FLOOR-SOUTH BLDG	4		800	208	SEE RISER E504-SB(N)	3.0					26
	27	SB-ATS-WT3A(CR)		X				N/A	4		N/A	N/A	N/A	1.0					27
	28	SB-ATS -WT4(LS)			X			2 ND FLOOR-SOUTH BLDG	4		150A	208	SEE RISER E504-SB(N)	1.0					28
RADIOLOGY BULDING (RB)	29		RB- ATS -LS(LS)		X			2nd Floor PH	3		260	480	Radiology Life Safety	1.0					29
	30		RB-ATS-MED(CR)	X				2nd Floor PH	4	IN PHASE MONITOR	600	480	Radiology Critical	1.0					30
	31		RB-ATS-Mech(EQ)			X		2nd Floor PH	4	IN PHASE MONITOR	400	480	Radiology Equipment	2.0					31
	32		RB-ATS-CR-1(CR)	X				2nd Floor PH	4	IN PHASE MONITOR	260	480	Not In Use	3.0					32
	33		RB-ATS-CR-2(CR)	X				2nd Floor PH	4	IN PHASE MONITOR	260	480	Not In Use						33
COURT YARD (CY)	34	CY-ATS-1C(CR)		X				2ND FLOOR CATH LAB AREA	4	IN PHASE MONITOR	400	208	CY Gen Bldg, Cath Lab Elec Clst	1.0					34
	35	CY-ATS-2C(CR)		X				2ND FLOOR CATH LAB AREA	4	IN PHASE MONITOR	800	208	Cath Lab Xray 1, Annex Dialysis	1.0					35
	36	CY-ATS-3C(EQ)				X		2ND FLOOR CATH LAB AREA	4	IN PHASE MONITOR	800	208	Resp Elec Clst, LINAC, MIS Computer Room, MIS UPS	2.0					36
	37	CY-ATS-4C(CR)		X				2ND FLOOR CATH LAB AREA	3	IN PHASE MONITOR	400	208	CATH LAB / Angio 150KVA UPS	1.0					37
	38	CY-ATS-5C(CR)		X				2ND FLOOR CATH LAB AREA	4	IN PHASE MONITOR	600	208	150KVA UPS 1ST FLOOR SOUTH BLDG	1.0					38
BAXTER BUILDING (BX)	39	BX-ATS-EMDP(LS)			X			ELECTRICAL CLOSET IN BAXTER BLDG	4	N/A	260	208	IN BAXTER ELECTRIC EXISTING 3%%D,4W,225A EMDP-B PANEL	1.0					39
CHILLER PLANT (CHP)	40	CHP-ATS-CH-13(EQ)				X		ATS ROOM FIRST FLOOR (SHOP AREA)	3	IN PHASE MONITOR	800	480	CHILLER 13	3.0					40
	41	CHP-ATS-EDP-MECH(EQ)				X		ATS ROOM FIRST FLOOR (SHOP AREA)	3	IN PHASE MONITOR	1200	480	EDP-MECH (CH-14,CH-15 & SUMPLEMENTARY)	3.0					41
BOILER PLANT (BP)	42	BP-ATS-B1(EQ)				X		ATS LOCATED IN NEW GENERATOR BLDG	4	IN PHASE MONITOR	800	208	DIST PANEL	3.0					42
	43	BP-ATS-B2(CR)		X				ATS LOCATED IN NEW GENERATOR BLDG	3	IN PHASE MONITOR	400	208	UPS COMPUTER	1.0					43
	44	BP-ATS_LS(LS)			X			ATS LOCATED IN NEW GENERATOR BLDG	4	IN PHASE MONITOR	400	208	LINAC	1.0					44
	45	BP-ATS-CR(CR)		X		X		ATS LOCATED IN NEW GENERATOR BLDG	4	IN PHASE MONITOR	400	208		1.0					45
NEW GENERATOR BUILDING(GB)	46	GB-ATS-1-1(CR)		X				NEW GENERATOR BLDG 3TH FLOOR	3	N/A	30	480	FUEL OIL PUMP	1.0					46
	47	GB-ATS-1-2(CR)		X				NEW GENERATOR BLDG 3TH FLOOR	3	N/A	30	480	FUEL OIL PUMP	1.0					47
	48	GB-ATS-3-1(CR)		X				NEW GENERATOR BLDG 3TH FLOOR	4	IN PHASE MONITOR	260	480	GENERATOR BLDG MISC. LOADS	1.0					48
	49	GB-ATS-3-2(CR)		X				NEW GENERATOR BLDG 3TH FLOOR	3	N/A	30	480	FIRE ALARM	1.0					49

NOTE: FOR DRAWINGS ASSOCIATED WITH EACH BLDG REFER TO DWG #E510 .

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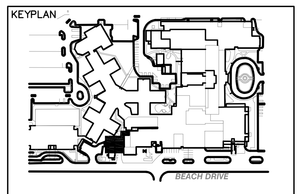

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WEST ISLIP, NY 11795

PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
E702

DRAWING NAME
NEW ATS SUMMARY

DRAWING SCALE: AS NOTED
DRAWING FILE: GSHE702
BINDING ORDER
FIRST ISSUE DATE: X/X/14

DISTRIBUTION PANEL SB-EM-DP1 SCHEDULE

65,000 MIN. A.I.C. SYM | VOLTS: 120/208V | PHASE: 3
MAIN BUS : 400AMP | MCB 400A | WIRES: 4

	DESIGNATION	Connected Load (kw)	Demand Load (kw)	CKT. BKR. FRAME SIZE	CKT. BKR. TRIP SIZE	FEEDER SIZE	Remarks
1	SPARE						
2	SPARE						
3	SPARE				200A		
4	EX. SLEEP APNEA				70A		
5	EXISTING LOAD				200A		
6	EX. CA(331-S) CB(232-S)& CC-1(LAB)				225A		
7	EX. TELEPHONE ROOM PNL				30A		
8	SPARE			-	-		
	Totals	(.)	(.)				

DISTRIBUTION PANEL SB-EM-DP2 SCHEDULE

65,000 MIN. A.I.C. SYM | VOLTS: 120/208V | PHASE: 3
MAIN BUS : 100AMP | MCB 100A | WIRES: 4

	DESIGNATION	Connected Load (kw)	Demand Load (kw)	CKT. BKR. FRAME SIZE	CKT. BKR. TRIP SIZE	FEEDER SIZE	Remarks
1	LSD (ER-129)				50A		
2	LSA(331-S) LSC(LAB-171)				30A		
3	SPARE						
4	SPARE						
5	SPARE						
6	SPARE						
7	SPARE						
8	SPARE			-	-		
	Totals	(.)	(.)				

DISTRIBUTION PANEL SB-EM-DP3 SCHEDULE

65,000 MIN. A.I.C. SYM | VOLTS: 120/208V | PHASE: 3
MAIN BUS : 800AMP | MCB 800A | WIRES: 4

	DESIGNATION	Connected Load (kw)	Demand Load (kw)	CKT. BKR. FRAME SIZE	CKT. BKR. TRIP SIZE	FEEDER SIZE	Remarks
1	EA-3(363-S)/EB-3(252-S)				500A		
2	PANEL ED (OLD ER)				225A		
3	EX. EMOP (ANNEX) (EQ)				225A		
4	SPARE						
5	SPARE						
6	SPARE						
7	SPARE						
8	SPARE			-	-		
	Totals	(.)	(.)				

DISTRIBUTION PANEL SB-EM-DP3A SCHEDULE

65,000 MIN. A.I.C. SYM | VOLTS: 120/208V | PHASE: 3
MAIN BUS : 400AMP | MCB 400A | WIRES: 4

	DESIGNATION	Connected Load (kw)	Demand Load (kw)	CKT. BKR. FRAME SIZE	CKT. BKR. TRIP SIZE	FEEDER SIZE	Remarks
1	LAB LPC-A(PP-LAB1&2)				100A		
2	LAB LPC-B				100A		
3	PANEL C-1				200A		PANEL C-2(3P-100A)
4	LAB LP-CA/LP-CB				175A		VIA MTS FPE (200A)
5	SPARE						
6	SPARE						
7	SPARE						
8	SPARE			-	-		
	Totals	(.)	(.)				

DISTRIBUTION PANEL SB-EM-DP4 SCHEDULE

65,000 MIN. A.I.C. SYM | VOLTS: 120/208V | PHASE: 3
MAIN BUS : 150AMP | MCB 150A | WIRES: 4

	DESIGNATION	Connected Load (kw)	Demand Load (kw)	CKT. BKR. FRAME SIZE	CKT. BKR. TRIP SIZE	FEEDER SIZE	Remarks
1	LSEB-1 LEFT (232-S)				70A		
2	SPARE						
3	SPARE						
4	SPARE						
5	SPARE						
6	SPARE						
7	SPARE						
8	SPARE			-	-		
	Totals	(.)	(.)				

DISTRIBUTION PANEL SB-EM-DP5 SCHEDULE

65,000 MIN. A.I.C. SYM | VOLTS: 120/208V | PHASE: 3
MAIN BUS : 400AMP | MCB 400A | WIRES: 4

	DESIGNATION	Connected Load (kw)	Demand Load (kw)	CKT. BKR. FRAME SIZE	CKT. BKR. TRIP SIZE	FEEDER SIZE	Remarks
1	LPF (LAB)				60A		
2	PHARMACY (EPP)				100A		
3	PL-SEB-B				200A		
4	PL-SEB-A				200A		
5	LSEB-II RIGHT				100A		
6	1PP1F (DIALYSIS)				100A		
7	SPARE						
8	SPARE			-	-		
	Totals	(.)	(.)				

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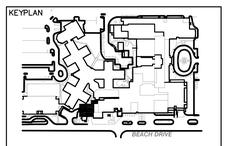

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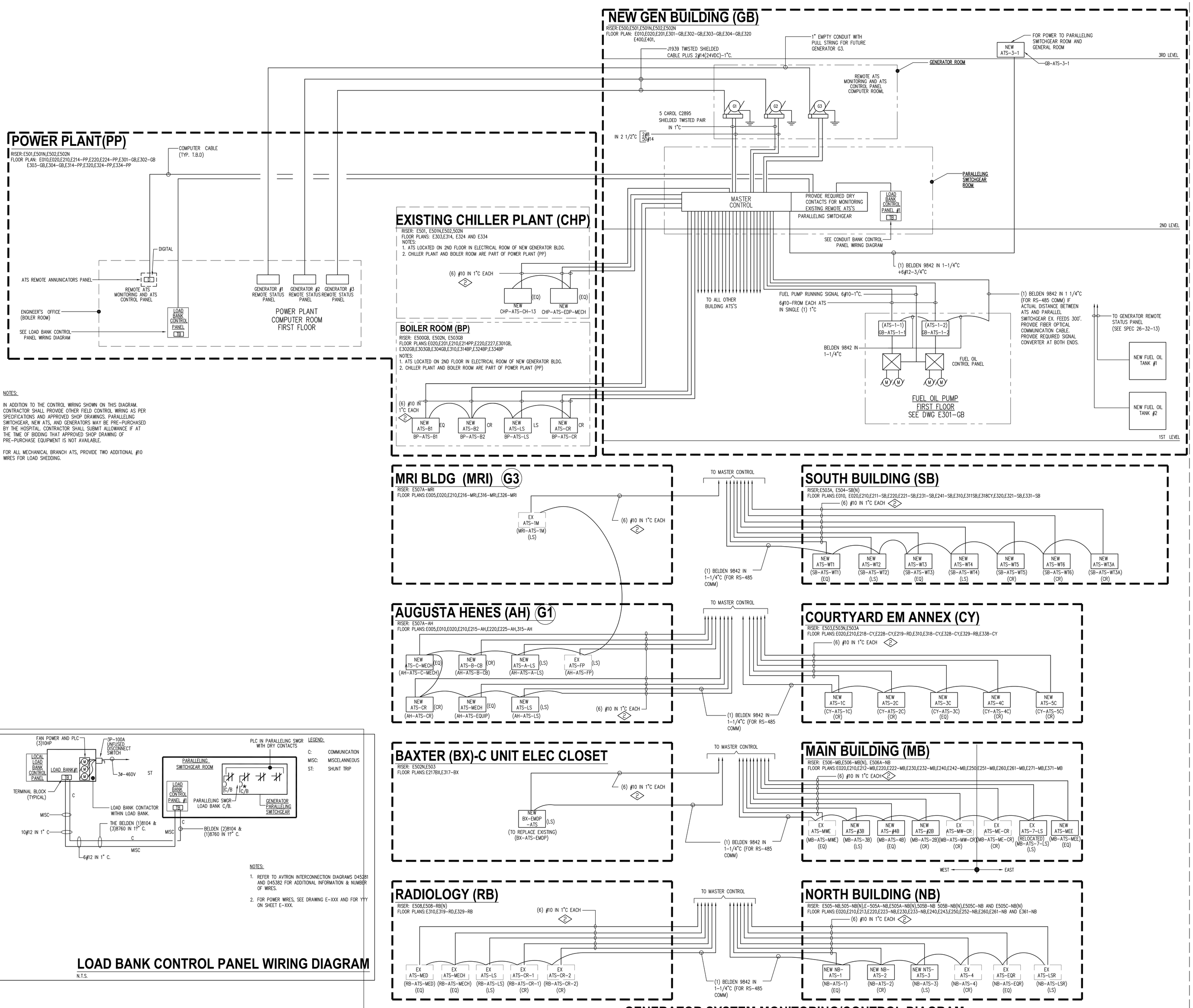
1000 MONTAUK HIGHWAY
WEST ISLIP, NY 11795

PROJECT
ESSENTIAL
ELECTRICAL SYSTEM
UPGRADES

DRAWING NUMBER
E703

DRAWING NAME
ELECTRICAL
PANEL SCHEDULES SHEET #1
SOUTH BLDG

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE705
BINDING ORDER	FIRST ISSUE DATE 5/14/14



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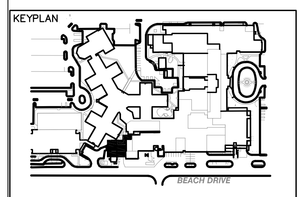

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PROJECT

ESSENTIAL ELECTRICAL SYSTEM UPGRADES

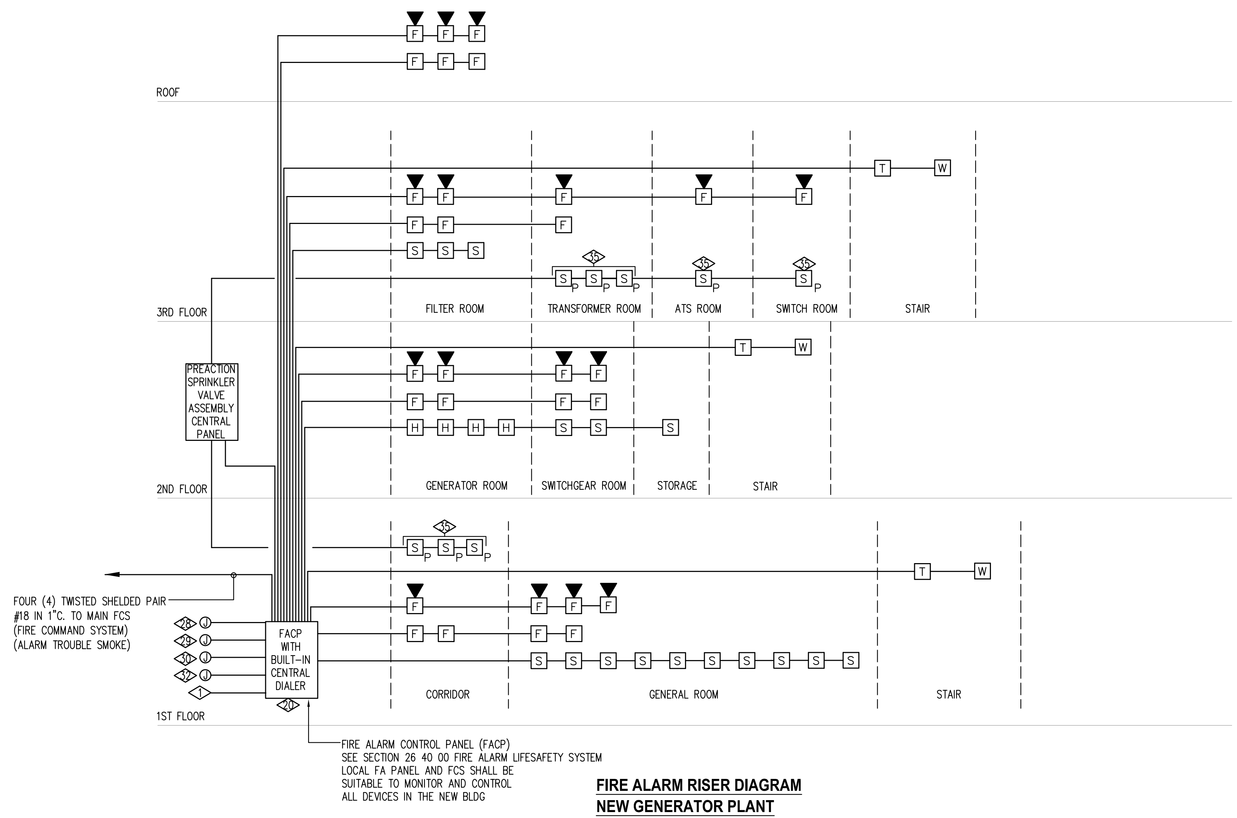
DRAWING NUMBER

E510

DRAWING NAME

ELECTRICAL ONE LINE GENERATOR SYSTEM CONTROL AND MONITORIN

DRAWING SCALE	DRAWING FILE
AS NOTED	GSHE510
BINDING ORDER	FIRST ISSUE DATE 11/26/14



FIRE ALARM RISER DIAGRAM
NEW GENERATOR PLANT

FIRE ALARM SYSTEM

F 15	FIRE ALARM SPEAKER WITH VISUAL ALARM SUPERSCRIPT INDICATES CANDELA VALUE
F	FIRE ALARM PULL STATION
F	FIRE ALARM SPEAKER
D	DUCT TYPE SMOKE DETECTOR
S	SMOKE DETECTOR
S_P	SMOKE DETECTOR "P" INDICATED CONNECT TO PREACTION
H	FIXED TEMPERATURE HEAT DETECTOR
SD	ELECTRICALLY OPERATED SMOKE DAMPER
T	TAMPER SWITCH
W	WATER FLOW SWITCH
FACP	FIRE ALARM CONTROL PANEL
FSD	FIRE SMOKE DAMPER
R	RELAY

PRE–ACTION SPRINKLER SYSTEM

1.1 SEQUENCE OF OPERATION (CROSS-ZONED)

A. Activation of a single detector shall:

1. Illuminate the corresponding lamp on the pre-action control panel.
2. Illuminate the integral alarm lamp on the detector.
3. Illuminate the corresponding lamp on the graphic annunciator.
4. Sound pre-action chime/strobe combination.
5. Activate dry contacts to alarm building fire alarm system.
6. Activate dry contacts to remote alarm to indicate first detector.

B. Activation of a second detector shall:

1. Continue all action of A except 4.
2. Sound pre-action horn/strobe combination.
3. Illuminate the integral alarm lamp of the detector.
4. Illuminate the corresponding lamp on the pre-action control panel.
5. Illuminate the corresponding lamp on the graphic annunciator.
6. Activate dry contacts to alarm building fire alarm system.
7. Release pre-action valve.
8. Activate dry contacts to remote alarm to indicate waterflow.
9. Activate dry contacts to shut down computer equipment.

C. Activation of a Manual Pull Station

1. Perform all actions of A except 1 and 5.
2. Activate dry contacts to remote alarm to indicate waterflow.
3. Activate dry contacts to shut down computer equipment.

D. Activation of a Trouble Signal

1. Illuminate the trouble LED on the pre-action panel.
2. Sound the pre-action strobe/bell combinations.
3. Activate dry contacts to indicate trouble at remote alarm points.
4. Activate dry contacts to indicate trouble at remote alarm points.

AUTOMATIC SMOKE/HEAT DETECTION//SPRINKLER ALARM SYSTEM SEQUENCE OF OPERATION

A. ACTIVATION OF THE MANUAL PULL STATION WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM CONTROL PANEL.
b. SEND AN ALARM SIGNAL TO CENTRAL OFFICE
c. SEND A SIGNAL TO THE SECURITY SYSTEM TO RELEASE ALL DOORS THAT ARE NORMALLY LOCKED AND RELEASE ALL HOLD OPEN DOOR DEVICES.

B. ACTIVATION OF AN AREA SMOKE OR DUCT DETECTOR OR HEAT DETECTOR WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM CONTROL PANEL.
b. SHUTDOWN ALL FANS GREATER THAN 2000 C.F.M.
c. CLOSE ALL DAMPERS
d. SEND A SMOKE ALARM SIGNAL TO CENTRAL OFFICE
e. SEND A SIGNAL TO THE SECURITY SYSTEM TO RELEASE ALL DOORS THAT ARE NORMALLY LOCKED AND RELEASE ALL HOLD OPEN DOOR DEVICES.

C. ACTIVATION OF AN ELEVATOR RECALL SMOKE DETECTOR AT THE ELEVATOR LANDING OR ELEVATOR MACHINE ROOM WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM CONTROL PANEL.
b. SHUTDOWN ALL FANS GREATER THAN 2000 C.F.M.
c. CLOSE ALL DAMPERS
d. SEND A SMOKE ALARM SIGNAL TO CENTRAL OFFICE
e. RECALL THE ELEVATOR TO THE GROUND FLOOR
f. SEND A SIGNAL TO THE SECURITY SYSTEM TO RELEASE ALL DOORS THAT ARE NORMALLY LOCKED AND RELEASE ALL HOLD OPEN DOOR DEVICES.

D. ACTIVATION OF A WATERFLOW SWITCH WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM CONTROL PANEL.
b. SHUTDOWN ALL FANS GREATER THAN 2000 C.F.M.
c. CLOSE ALL DAMPERS
d. SEND A WATERFLOW ALARM SIGNAL TO CENTRAL OFFICE
e. RECALL THE ELEVATOR TO THE GROUND FLOOR AND OPEN CAB DOORS
h. SEND A SIGNAL TO THE SECURITY SYSTEM TO RELEASE ALL DOORS THAT ARE NORMALLY LOCKED AND RELEASE ALL HOLD OPEN DOOR DEVICES.

F. ACTIVATION OF A TAMPER SWITCH WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM CONTROL PANEL
b. SEND A SUPERVISORY SIGNAL TO CENTRAL OFFICE

G. OPERATION OF A GENERAL TROUBLE I.E.: OPEN ON FIELD WIRING INTERNAL FAULTS:

a. ANNUNCIATE THE TROUBLE ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM CONTROL PANEL
b. TRANSMIT TROUBLE SIGNAL TO CENTRAL OFFICE.

FIRE ALARM SYSTEM NOTES:

1. ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL 1" EMPTY CONDUIT, WITH PULL LINE, TO FIRST FLOOR MAIN TELECOMMUNICATIONS ROOM FOR TELEPHONE TIE–IN TO CENTRAL STATION.
2. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL FIRE ALARM DEVICES.
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERABLE ADDRESSABLE, MULTIPLEXED FIRE ALARM SYSTEM COMPLETE WITH ALL REQUIRED REMOTE TRANSPONDERS, BATTERIES AND POWER SUPPLIES.
4. ELECTRICAL CONTRACTOR SHALL WIRE ALL TAMPER AND WATER FLOW SWITCHES SUCH THAT EACH IS INDIVIDUALLY ADDRESSED. REFER TO FIRE PROTECTION DOCUMENTS FOR EXACT QUANTITIES.
5. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TWO DAYS FOR TOWN OF WEST ISLIP ACCEPTANCE AND TWO DAYS FOR OWNER ACCEPTANCE FOR EACH PHASE OF THIS PROJECT. THIS SHALL INCLUDE WALKING THE OWNER AND TOWN OF WEST ISLIP FIRE DEPARTMENT THROUGH THE SYSTEM COMPONENTS.
6. ELECTRICAL CONTRACTOR TO REFER TO HVAC PLANS AND SPECIFICATIONS FOR EXACT SMOKE EXHAUST SYSTEM REQUIREMENT.
7. ROVIDE A LOCKABLE, NEMA 1 ENCLOSURE, PAINTED RED WITH LABELS, AND LOCATE IN THE RESPECTIVE ELECTRIC ROOM FOR ALL FUSED CUT OUTS.
8. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR A COMPLETE FIRE ALARM SYSTEM INSTALLATION. COMPLY WITH ALL CURRENT APPLICABLE CODES.
9. ALL EQUIPMENT SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
10. SUBMIT COMPLETE SHOP DRAWINGS FOR THE SYSTEM, INCLUDING WIRING DIAGRAMS, CATALOG CUTS OF ALL DEVICES, AND SYSTEM RISER DIAGRAM.
11. PROVIDE END–OF–LINE DEVICES AS REQUIRED.
12. ALL CONDUITS SHALL BE GROUNDED BY MEANS CONFORMING WITH THE NATIONAL ELECTRICAL CODE WITH A GROUND CONDUCTOR EQUAL IN SIZE TO THE LARGEST CONDUCTOR USED IN THE SYSTEM; BUT IN NO CASE SHALL THE GROUND CONDUCTOR BE SMALLER THAN #10 AWG. ALL CONDUITS SHALL BE RIGID STEEL CONDUIT. ALL CONDUITS AND JUNCTION BOXES SHALL BE PAINTED RED. PROVIDE ALL WIRING IN 3/4" RIGID RACEWAY WITH THREADED FITTINGS PER CODE, UNLESS OTHERWISE NOTED. ALL EXPOSED SCREWS SHALL BE TAMPER PROOF.
13. ELECTRICAL CONTRACTOR SHALL PERFORM ALL NECESSARY FIRE DEPARTMENT FILING. WORK SHALL NOT BE CONSIDERED COMPLETE UNLESS ALL NECESSARY FILING, TESTS, AND INSPECTIONS ARE COMPLETED AND APPROVED.
14. ELECTRICAL CONTRACTOR SHALL FIRE STOP ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS AND SLABS.
15. ELECTRICAL CONTRACTOR SHALL BE AT ALL PRE–INSPECTION AND FDNY INSPECTION AS PART OF THE SCOPE OF HIS SERVICES UNTIL THE FINAL FIRE DEPARTMENT LETTER OF APPROVAL RECEIVED.
16. COORDINATE LOCATIONS OF ALL DEVICES AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO ANY WORK AND INSTALLATION.
17. PROVIDE PERMANENT LABELS OF ALL DEVICES INCLUDING THE CONTROL PANEL.
18. ALL DEVICES SHALL BE PROVIDED BY THIS CONTRACTOR.
19. ALL COMBINATION AUDIBLE/VISUAL ALARM UNITS AND VISUAL(STROBE UNITS) SHALL BE WALL MOUNTED AT NO HIGHER THAN 80" A.F.F.
20. FIRE ALARM POWER SUPPLY SHALL BE A HIGH EFFICIENCY SWITCH MODE TYPE WITH LINE MONITORING TO AUTOMATICALLY SWITCH TO BATTERIES FOR POWER FAILURE OR BROWN OUT CONDITIONS. THE AUTOMATIC BATTERY CHARGER SHALL HAVE LOW BATTERY DISCHARGE PROTECTION. THE POWER SUPPLY SHALL PROVIDE INTERNAL POWER AND 24 VDC AT 500MA. ALL OUTPUTS SHALL BE POWER LIMITED. THE BATTERY SHALL BE SIZED TO SUPPORT THE SYSTEM FOR 24 HOURS OF SUPERVISORY AND TROUBLE SIGNAL CURRENT PLUS GENERAL ALARM FOR 15 MINUTES.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PROGRAMMING, WIRE AND DEVICES REQUIRED TO INTERFACE SPRINKLER, HVAC, ELEVATOR AND SECURITY SYSTEMS WITH ADDRESSABLE COMPONENTS OF THE FIRE ALARM SYSTEM.
22. ALL DEVICES SHALL BE FLUSH MOUNTED. ALL CIRCUITRY SHALL BE CONCEALED.
23. PROVIDE QUANTITY OF ADDRESSABLE LOOPS REQUIRED TO NOT EXCEED THE NUMBER OF ADDRESSABLE DEVICES PER APPLICABLE CODE OR MANUFACTURER'S STANDARDS.
24. ANY ADDITIONAL REMOTE TRANSPONDERS REQUIRED FOR THE OPERATION OF THIS SYSTEM SHALL BE LOCATED IN THE RESPECTIVE FLOOR'S STORAGE CLOSETS.
25. REFER TO ELECTRICAL RISER DIAGRAM FOR ALL POWER REQUIREMENT TO THE FIRE ALARM SYSTEM.
26. CONNECT TO ELEVATOR CAB FIRE ALARM INTERFACE. PROVIDE ALL REQUIRED WIRING MODULES, CONDUIT & JUNCTION BOXES.
27. PROVIDE WIRING DIAGRAM & INSTRUCTIONS OF THE FIRE ALARM SYSTEM MOUNTED SECURELY INSIDE THE FIRE ALARM CONTROL PANEL.
28. CONNECT TO SECURITY SYSTEM INTERFACE PANEL FOR DOOR RELEASE. PROVIDE ALL REQUIRED WIRING MODULES, CONDUIT AND JUNCTION BOXES.
29. CONNECT TO GENERATOR FOR MONITORING.
30. CONNECT TO BMS PANEL.
31. SMOKE ALARMS SHALL BE PROVIDED WITH THE CAPABILITY TO SUPPORT VISIBLE ALARM NOTIFICATION APPLIANCE IN ACCORDANCE WITH ICC/ANSI A117.1.
32. PROVIDE 120V EMERGENCY POWER
33. FIRE ALARM RISER SHALL BE INSTALLED IN A 2 HOUR RATED ROOM OR ENCLOSURE.
34. PROVIDE SEPARATE CONNECTION TO EXISTING BUILDING FIRE ALARM SYSTEM
35. FURNISHED UNDER FIRE PROTECTION DRAWING FP–324 AND FP–334. INSTALLED UNDER THIS CONTRACT.

FIRE ALARM SYSTEM INPUT & OUTPUT MATRIX

SYSTEM OUTPUTS (INDICATING / CONTROLLED DEVICES)

SYSTEM INPUTS (INITIATING DEVICES)		A ACTUATE COMMON ALARM SIGNAL INDICATOR	B ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	C ACTUATE COMMON TROUBLE SIGNAL INDICATOR	D ACTUATE AUDIBLE COMMON ALARM SIGNAL	E ACTUATE AUDIBLE COMMON SUPERVISORY SIGNAL	F ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	G ACTUATE FLASHING "FIRE" SIGN	H ACTUATE LCD DISPLAY (ADDRESS, TYPE, LOCATION)	J DISPLAY CHANGE OF STATUS	K TRANSMIT MANUAL ALARM SIGNAL TO CENTRAL STATION	L TRANSMIT SMOKE ALARM SIGNAL TO CENTRAL STATION	M TRANSMIT HEAT ALARM SIGNAL TO CENTRAL STATION	N TRANSMIT WATERFLOW ALARM SIGNAL TO CENTRAL STATION	O TRANSMIT SUPERVISORY ALARM SIGNAL TO CENTRAL STATION	P TRANSMIT TROUBLE ALARM SIGNAL TO CENTRAL STATION	Q RELEASE EGRESS LOCKING SYSTEM (FAIL SAFE)	U CLOSE ASSOCIATED ELECTRICALLY OPERATED FIRE DAMPERS PER ZONE	W ACTIVATE ASSOCIATED FAN SHUTDOWN	X	
		CONTROL UNIT ANNUNCIATION							NOTIFICATION									REQUIRED FIRE SAFTEY			
1	MANUAL FIRE ALARM BOXES (LOCATED AT FACP)	●			●			●	●	●	●							●			1
2	AREA SMOKE DETECTORS	●			●			●	●	●		●						●	●	●	2
3	IN DUCT MOUNTED SMOKE DETECTORS (SUPPLY)	●			●			●	●	●		●						●	●	●	3
4	IN DUCT MOUNTED SMOKE DETECTORS (RETURN)	●			●			●	●	●		●						●	●	●	4
8	TOP OF STAIRWAY SMOKE DETECTORS	●			●			●	●	●		●						●	●	●	8
9	AREA HEAT DETECTORS	●			●			●	●	●			●					●	●	●	9
13	SPRINKLER WATERFLOW SWITCHES	●			●			●	●	●				●				●	●	●	13
14	SPRINKLER CONTROL VALVE TAMPER / SUPERVISORY SWITCHES		●			●			●	●					●						14
15	SUB-SYSTEM ALARM	●			●			●	●	●								●	●	●	15
16	SUB-SYSTEM TROUBLE			●			●		●	●						●					16
17	SUB-SYSTEM SUPERVISORY		●			●			●	●					●						17
	SYSTEM FAULTS	CONTROL UNIT ANNUNCIATION							NOTIFICATION												
		A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	U	W	X	
1	OPEN CIRCUIT			●			●		●	●						●					1
2	GROUND FAULT			●			●		●	●						●					2
3	FIRE ALARM AC POWER FAILURE			●			●		●	●						●					3
4	FIRE ALARM SYSTEM LOW BATTERY			●			●		●	●						●					4
5	NOTIFICATION APPLIANCES CIRCUIT SHORT			●			●		●	●						●					5
6	ADDRESSABLE DEVICE FAILURE			●			●		●	●						●					6

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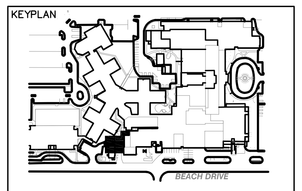

SEAL

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

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PROJECT
ESSENTIAL ELECTRICAL SYSTEM UPGRADES

DRAWING NUMBER
FA511

DRAWING NAME
FIRE ALARM RISER DIAGRAM

DRAWING SCALE: AS NOTED
DRAWING FILE: GSHE511
BINDING ORDER
FIRST ISSUE DATE: 11/26/14