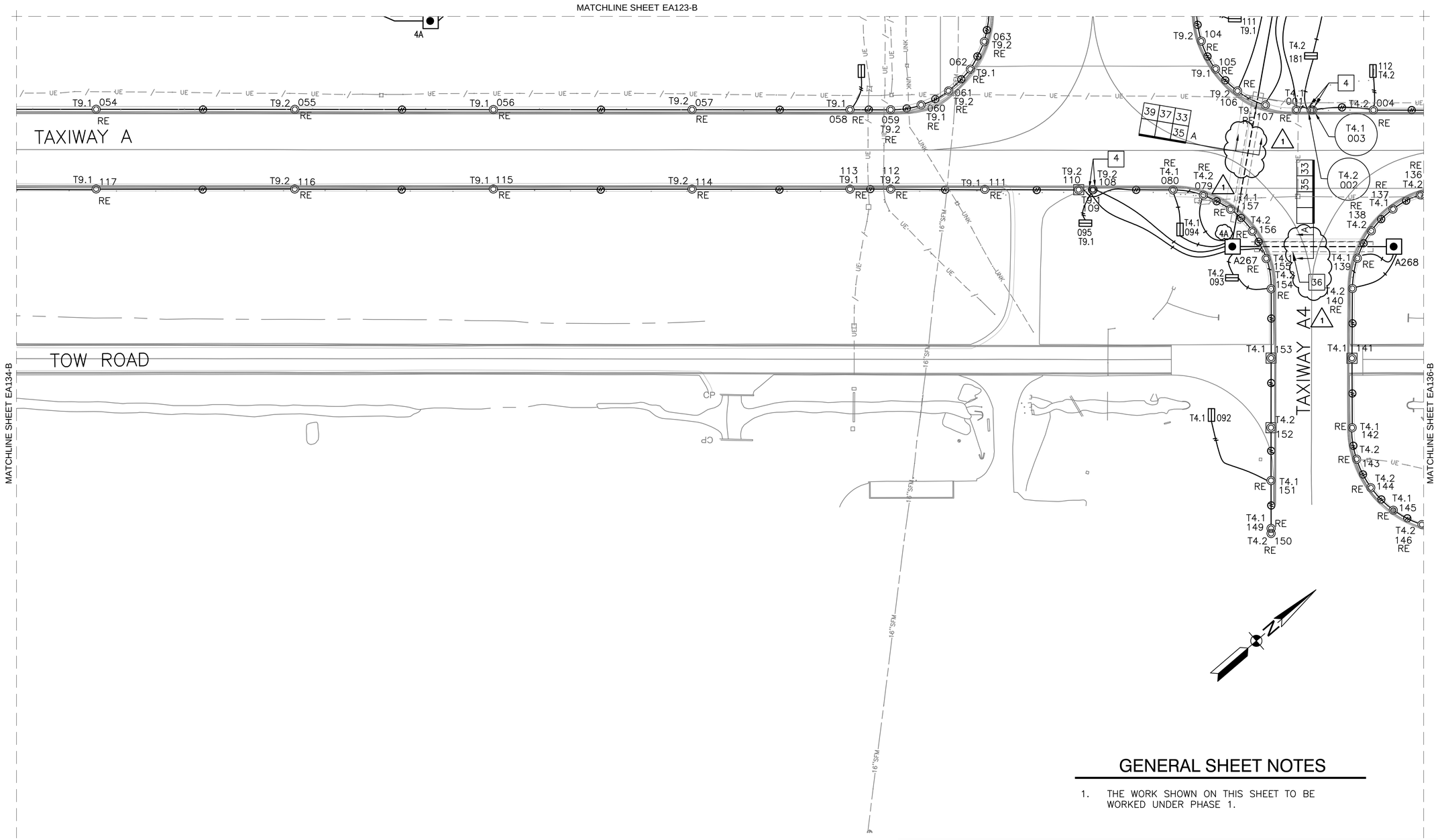


GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

CONSTRUCTION KEYNOTES

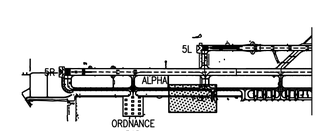
4 PROVIDE L-861T OMNI-DIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT WITH YELLOW LENS, INCLUDING LIGHT BASE AND ISOLATIC TRANSFORMER, REFER TO DETAIL 1, SHEET EA510.

36 DUCTBANKS INSTALLED IN RUNWAY OR TAXIWAY PCC PAVEMENT SHALL BE INSTALLED NEAR THE CENTER OF A ROW OF SLAB SECTION TO ENSURE THE REMOVAL OF ONE SLAB ROW ACROSS THE RUNWAY OR TAXIWAY. 1

PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

KEY MAP B



GRAPHIC SCALE

1"=50'

0 50' 100' 200'

1

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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WEB: WWW.JMT.COM

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

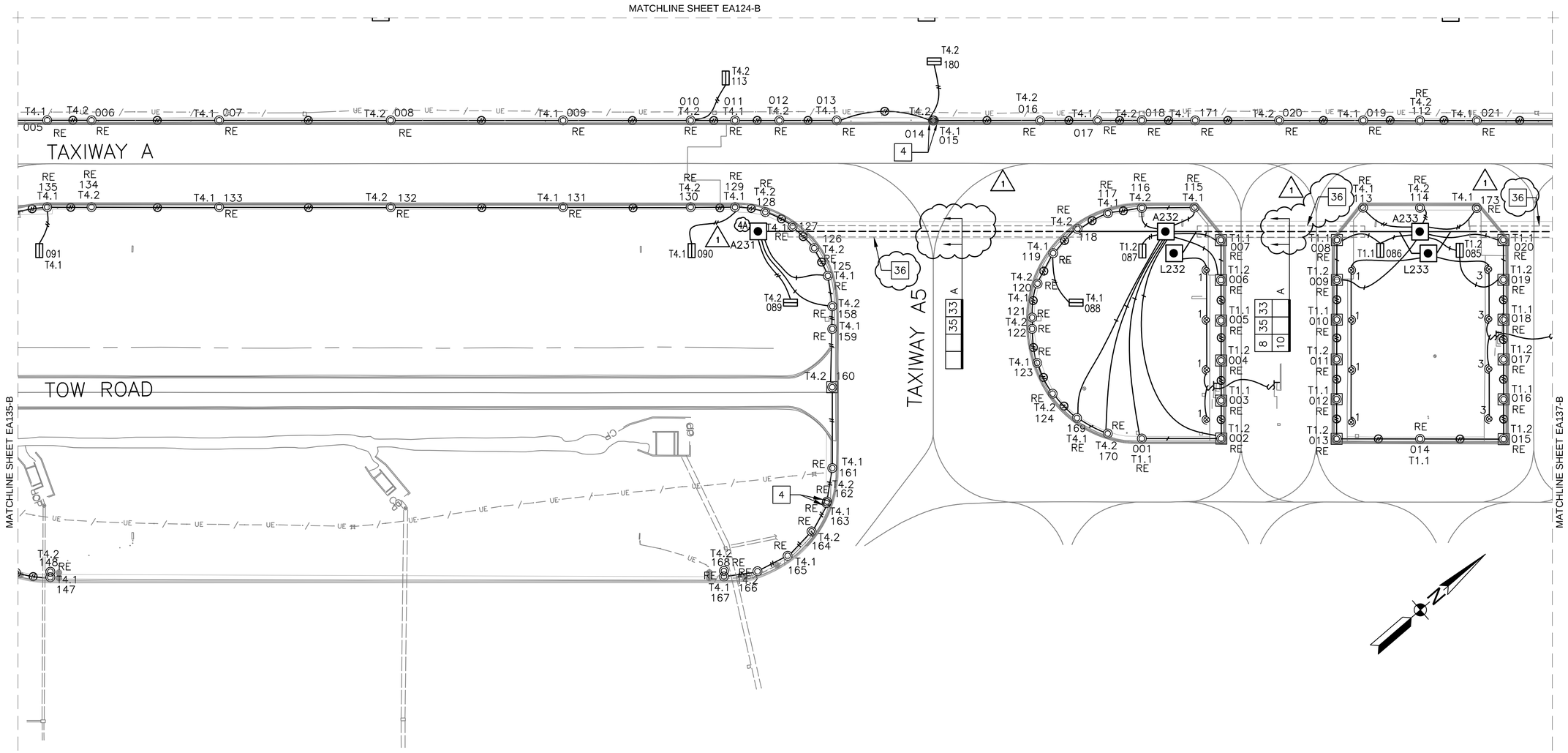
BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
HR IPT NAVAL AIR STATION OCEANA - VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691743
SHEET 210 OF 368
EA135-B
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabili\CADD\ELECTRICAL\10-0863-008-EA135-B.dwg LAYOUT NAME: EA135-B PLOTTED: Tuesday, April 28, 2015 - 8:46pm USER: Rhurst



GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

CONSTRUCTION KEYNOTES

4 PROVIDE L-861T OMNI-DIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT WITH YELLOW LENS, INCLUDING LIGHT BASE AND ISOLATION TRANSFORMER, REFER TO DETAIL 1, SHEET EA510.

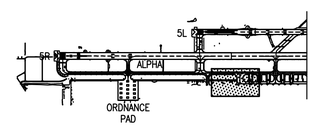
36 DUCTBANKS INSTALLED IN RUNWAY OR TAXIWAY PCC PAVEMENT SHALL BE INSTALLED NEAR THE CENTER OF A ROW OF SLAB SECTION TO ENSURE THE REMOVAL OF ONE SLAB ROW ACROSS THE RUNWAY OR TAXIWAY.

1

PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

KEY MAP B



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

1

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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A/E INFO

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FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

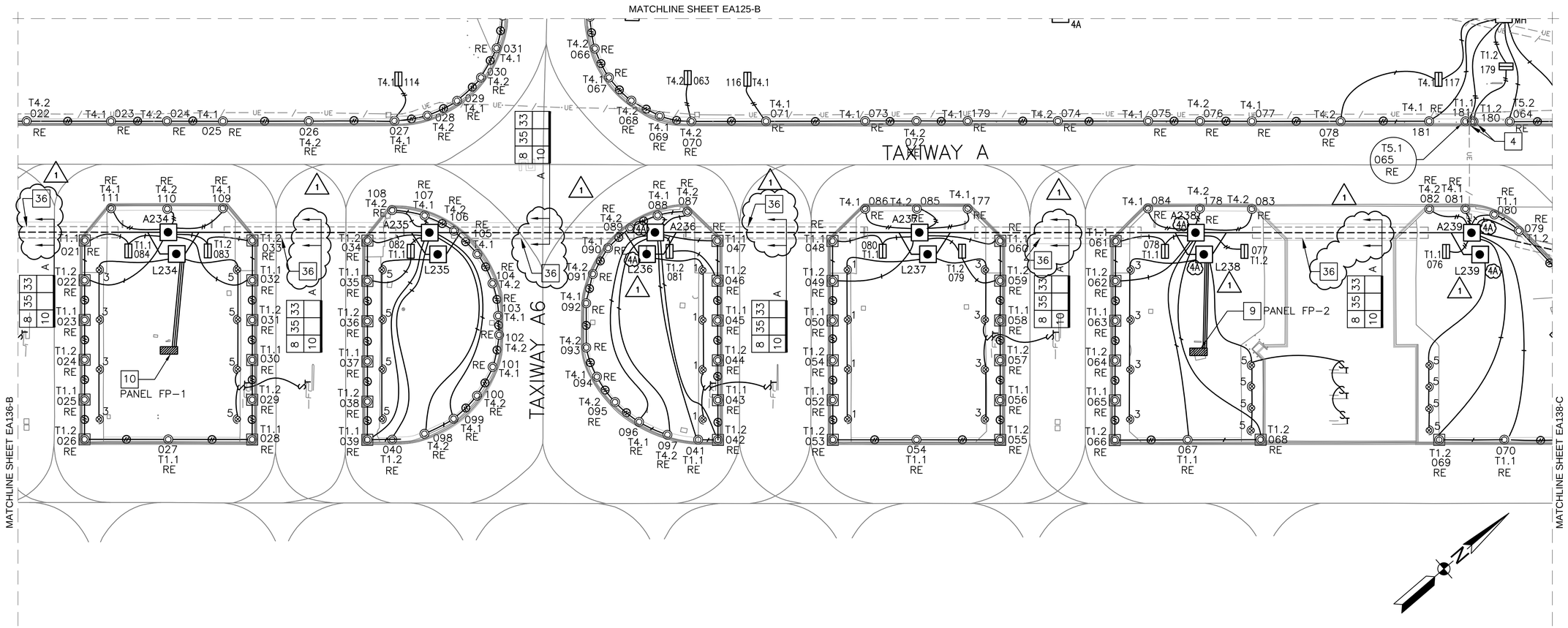
BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA - VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691744
SHEET 211 OF 368
EA136-B
DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\SMD\100863_008_Energy_and_Reliabilt\CADD\ELECTRICAL\10-0863-008-EA136-B.dwg LAYOUT NAME: EA136-B PLOTTED: Tuesday, April 28, 2015 - 8:47pm USER: Rhurst



GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

CONSTRUCTION KEYNOTES

4 PROVIDE L-861T OMNI-DIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT WITH YELLOW LENS, INCLUDING LIGHT BASE AND ISOLATION TRANSFORMER, REFER TO DETAIL 1, SHEET EA510.

9 RACK MOUNTED FUEL PIT FLOODLIGHTING PANEL. EXTEND EXISTING FEEDER TO LOCATION OF NEW PANEL AND MAKE CONNECTION TO MAIN CIRCUIT BREAKER. ALSO EXTEND EXISTING BRANCH CIRCUITS (IF ANY) TO PANEL AND MAKE CONNECTION TO SPARE CIRCUIT BREAKERS. FOR RACK MOUNTED DETAILS REFER TO DETAIL 6 ON SHEET EA509.

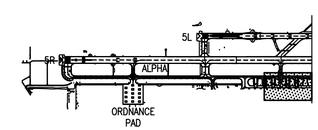
10 RACK MOUNTED FUEL PIT FLOODLIGHTING PANEL. FOR RACK MOUNTING DETAILS REFER TO DETAIL 6 ON SHEET EA509.

36 DUCTBANKS INSTALLED IN RUNWAY OR TAXIWAY PCC PAVEMENT SHALL BE INSTALLED NEAR THE CENTER OF A ROW OF SLAB SECTION TO ENSURE THE REMOVAL OF ONE SLAB ROW ACROSS THE RUNWAY OR TAXIWAY.

PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

KEY MAP B



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

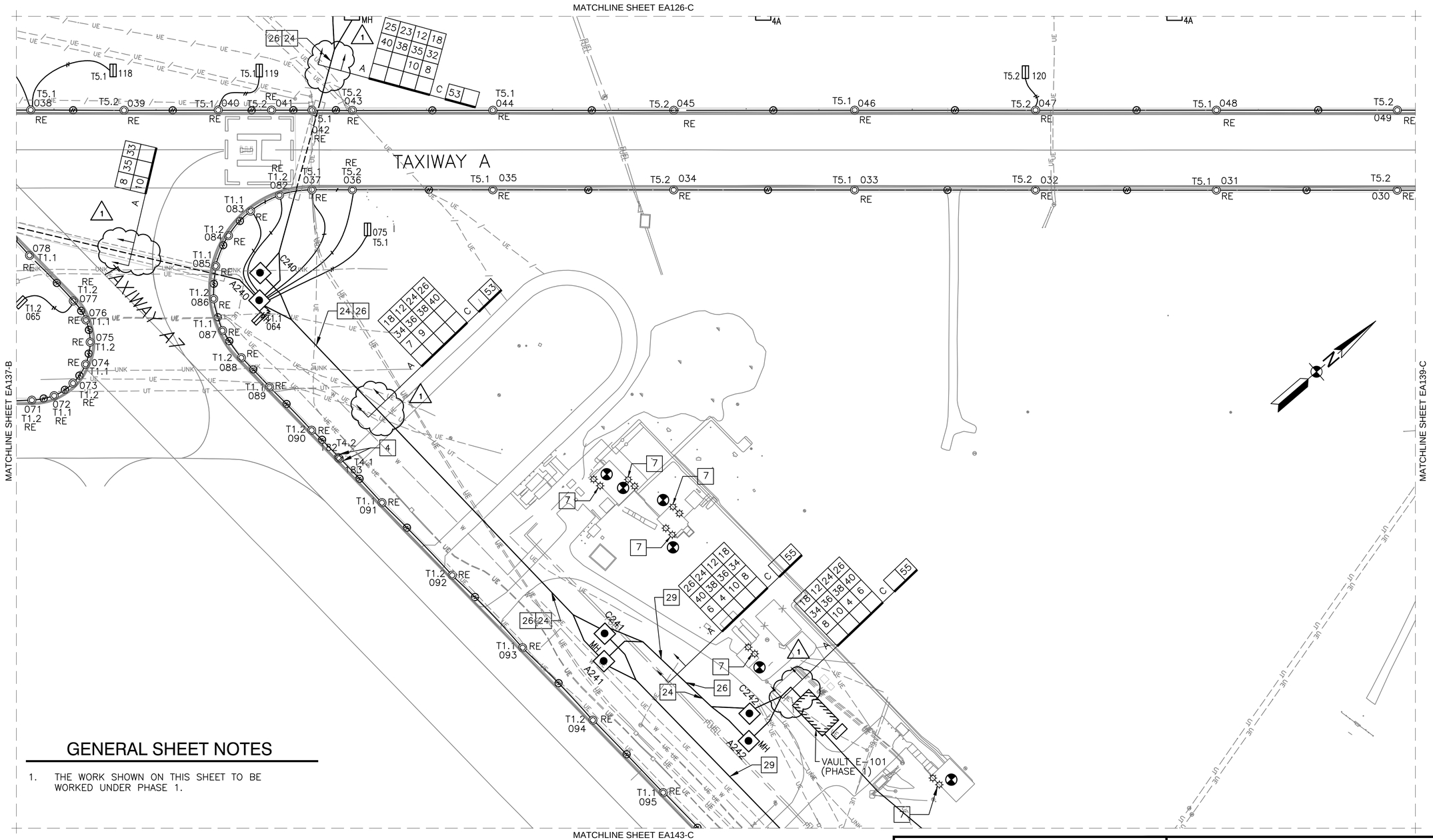
CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

HR IPT

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691745
SHEET 212 OF 368
EA137-B
DRAWING REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_OOB_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-OOB-EA137-B.dwg LAYOUT NAME: EA137-B PLOTTED: Tuesday, April 28, 2015 - 8:48pm USER: Rhurst



GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

CONSTRUCTION KEYNOTES

4 PROVIDE L-861T OMNI-DIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT WITH YELLOW LENS, INCLUDING LIGHT BASE AND ISOLATION TRANSFORMER, REFER TO DETAIL 1, SHEET EA510.

7 REMOVE INCANDESCENT OBSTRUCTION LIGHT AND INSTALL LED OBSTRUCTION LIGHT, REUTILIZE POWER CONDUCTORS.

24 CIRCUIT NO. T9.1 AND T9.2 FROM VAULT E-101 TO BE COMPLETED UNDER PHASE 1 CIRCUIT WILL BE REMOVED UNDER PHASE 2. SPLICE REMAINING PRIMARY CONDUCTORS TO UPON REMOVAL.

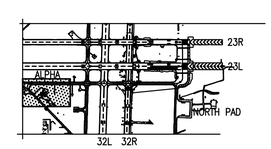
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

26 CIRCUIT NO. G1 AND G2 FROM VAULT E-101 TO BE COMPLETED UNDER PHASE 1 CIRCUIT WILL BE REMOVED UNDER PHASE 2. SPLICE REMAINING PRIMARY CONDUCTORS TO UPON REMOVAL.

29 SPLICE CONDUCTORS FOR CIRCUIT NO. T7.1 AND T7.2 INTO PRIMARY CIRCUITS AND ROUTE BACK TO VAULT E-101 COMPLETED UNDER PHASE 1.

KEY MAP C



GRAPHIC SCALE

1"=50'

0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

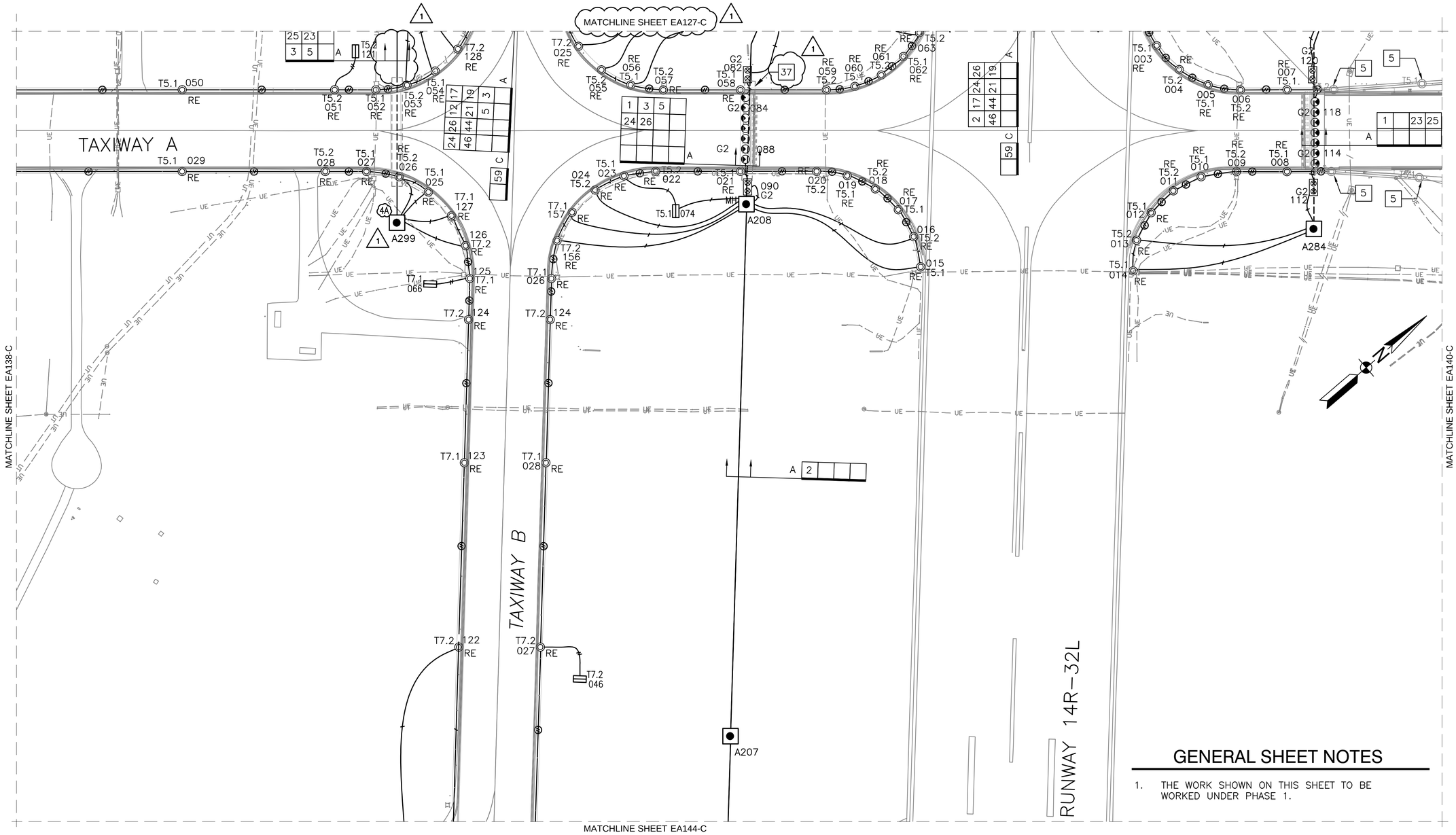
BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA ~ VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691746
SHEET 213 OF 368
EA138-C
DRAWING REVISED: 01 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA138-C.dwg LAYOUT NAME: EA138-C PLOTTED: Tuesday, April 28, 2015 - 8:50pm USER: Rhurst



GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

CONSTRUCTION KEYNOTES

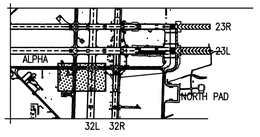
5 REMOVE EXISTING WIRING AND REWIRE LIGHTS INSTALLED UNDER OTHER CONTRACT, INTERLEAVE CIRCUITING AS SHOWN ON DETAIL 1, SHEET EA504, TYP. FOR RUNWAY AND TAXIWAYS.

37 INSTALL DUCTBANK PARALLEL WITH RUNWAY GUARD LIGHTS AND SHALL SHARE A TRENCH WITH THE GUARD LIGHTS.

PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'–0"

KEY MAP C



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

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A/E INFO

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ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

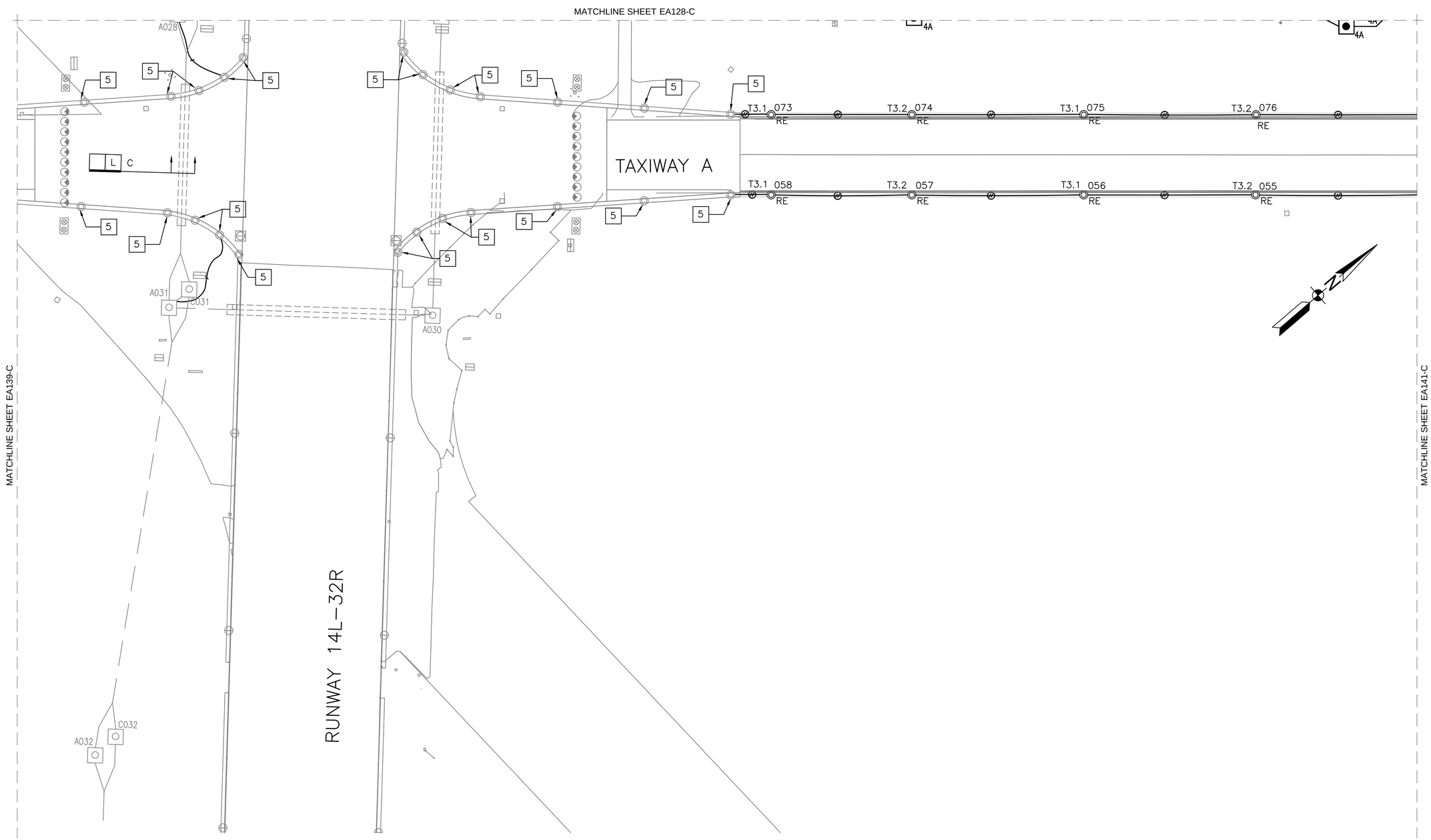
CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
HR IPT
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'–0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691747
SHEET 214 OF 368
EA139-C

DRAWING REVISED: 12 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA139-C.dwg LAYOUT NAME: EA139-C PLOTTED: Tuesday, April 28, 2015 - 8:51pm USER: Rhurst



CONSTRUCTION KEYNOTES

5 REMOVE EXISTING WIRING AND REWIRE LIGHTS INSTALLED UNDER OTHER CONTRACT, INTERLEAVE CIRCUITING AS SHOWN ON DETAIL 1, SHEET EA504, TYP. FOR RUNWAY AND TAXIWAYS.

1

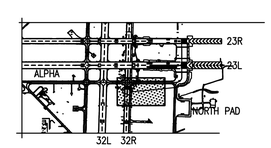
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP C



GRAPHIC SCALE

1"=50'

0 50' 100' 200'

1

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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A/E INFO

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ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

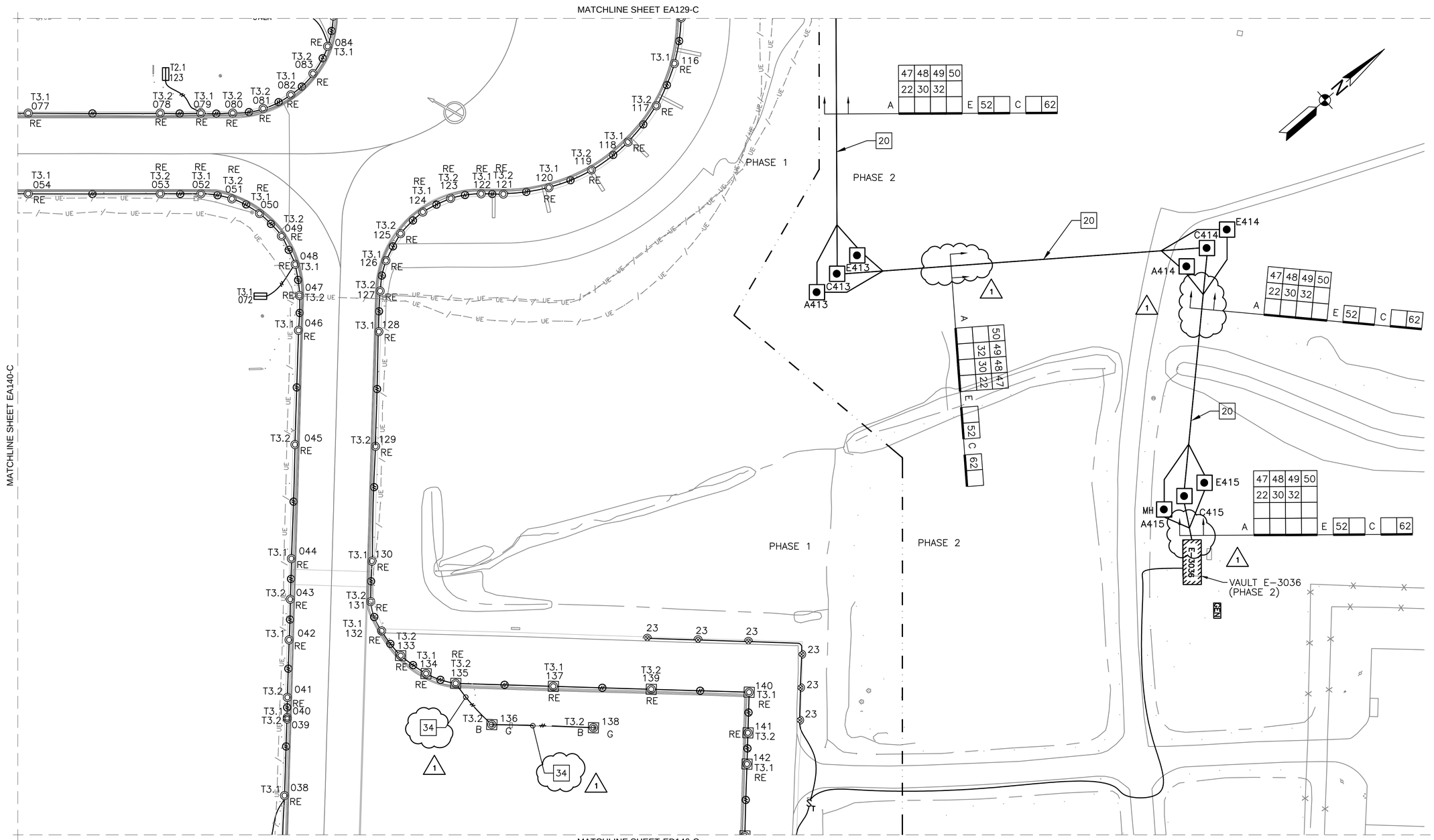
BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691748
SHEET 215 OF 368
EA140-C
DRAWING REVISED: 10 MARCH 2009

FILE NAME: G:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA140-C.dwg LAYOUT NAME: EA140-C PLOTTED: Tuesday, April 28, 2015 - 8:52pm USER: Rhurst



CONSTRUCTION KEYNOTES

20 SPLICE CONDUCTORS FOR CIRCUIT NO. T3.1 AND T3.2 INTO PRIMARY CIRCUITS AND ROUTE BACK TO VAULT E-3036 TO BE COMPLETED UNDER PHASE 2.

34 DIRECTIONAL DRILL 2" RGS CONDUIT TO PAVEMENT OPENING, REFER TO DETAIL 4, SHEET EA512, CIRCUITING SHOWN IS DIAGRAMMATICAL IN NATURE AND NOT INTENDED TO BE INSTALLED AS DEPICTED.

1

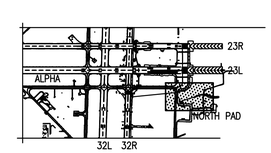
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1 AND PHASE 2 AS INDICATED ON PLAN.

KEY MAP C



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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A/E INFO

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ACTIVITY

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DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

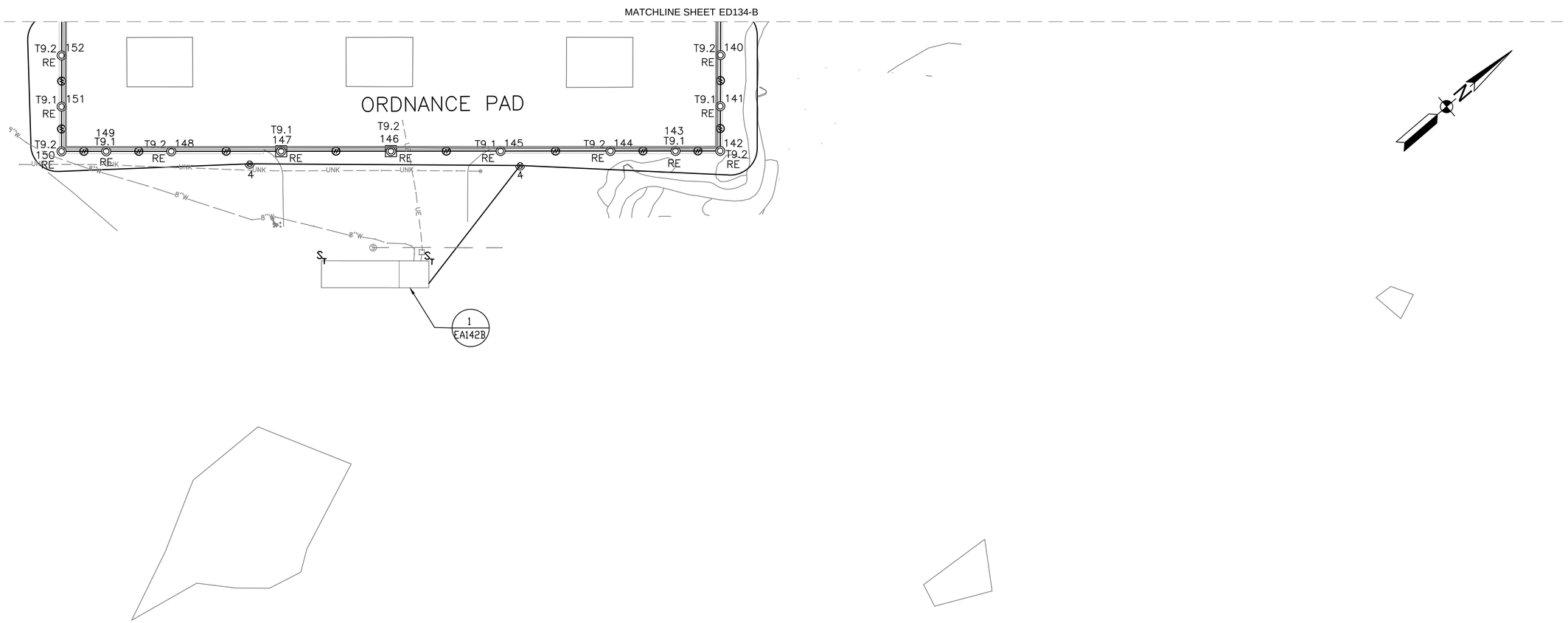
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
HR IPT
NAVAL AIR STATION OCEANA ~ VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691749
SHEET 216 368

EA141-C

DRAWING REVISED 10 MARCH 2009

FILE NAME: O:\SMD\100863_008_Energy_and_Reliabili\CADD\ELECTRICAL\10-0863-008-EA141-C.dwg LAYOUT NAME: EA141-C PLOTTED: Tuesday, April 28, 2015 - 8:53pm USER: Rhurst



PARTIAL SITE PLAN - CONSTRUCTION

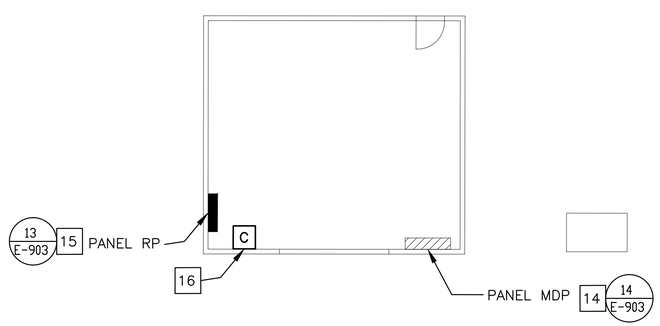
1" = 50'-0"

CONSTRUCTION KEYNOTES

14 PROVIDE A 20A SINGLE POLE CIRCUIT BREAKER FOR PAD FLOOD LIGHTING IN EXISTING 480Y/277V PANEL. CIRCUIT BREAKER SHALL MATCH EXISTING MANUFACTURER, TYPE, MODEL, AND AIC RATING.

15 PROVIDE A 20A SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTACTOR PANEL CONTROLS IN EXISTING 208Y/120V PANEL. CIRCUIT BREAKER SHALL MATCH EXISTING MANUFACTURER, TYPE, MODEL, AND AIC RATING

16 LIGHTING CONTACTOR PANEL. REFER TO DETAIL 2 ON SHEET EA-609 FOR WIRING DIAGRAM.



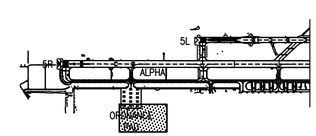
ORDNANCE PAD BUILDING - ELECTRICAL ROOM - PART PLAN

SCALE: 1/8"=1'-0" EA142-B 2

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP B



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

1/8"=1'-0" 4' 0 4' 8'

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

1

STM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

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A/E INFO

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PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

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HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
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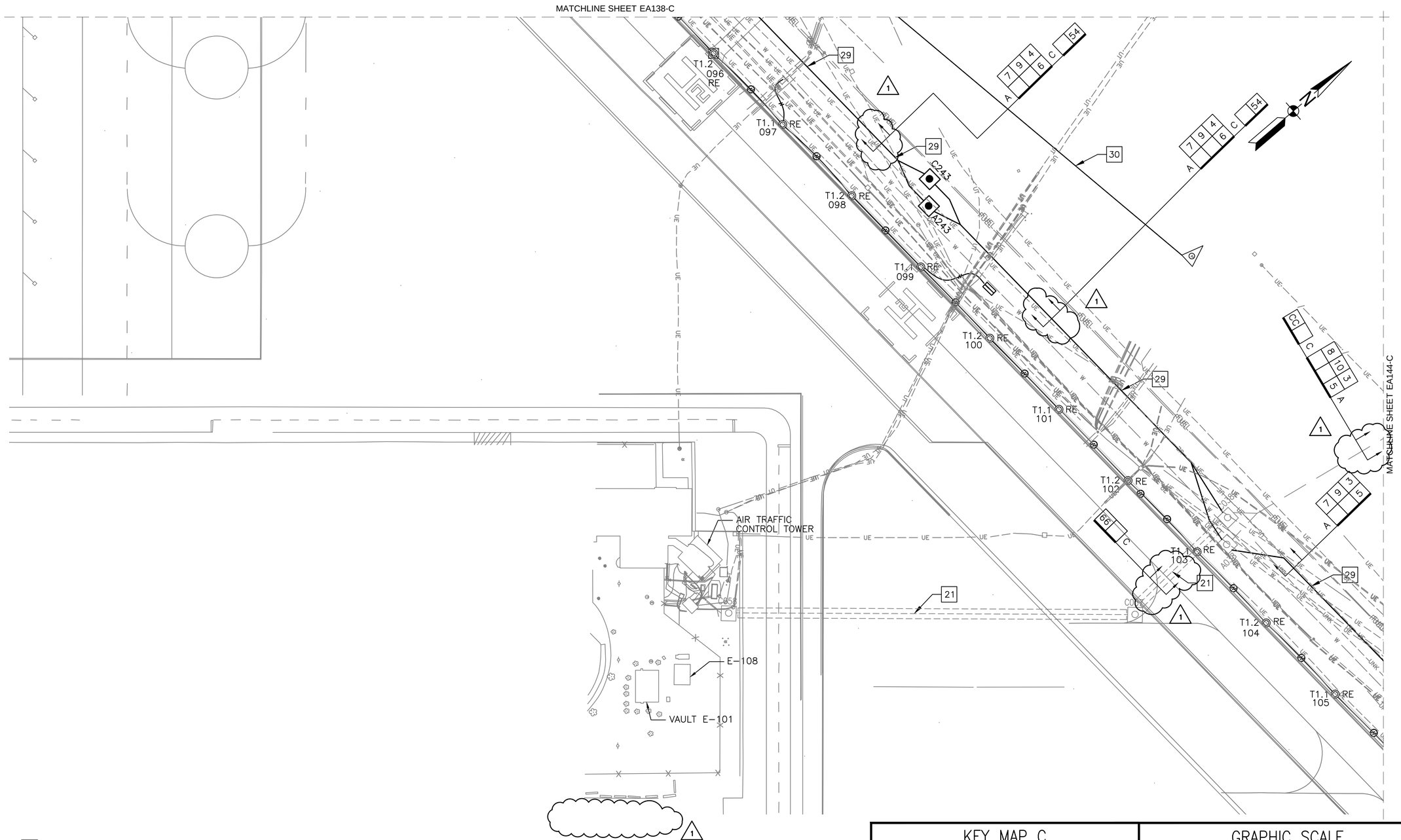
NAVAL AIR STATION OCEANA VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691750
SHEET 217 OF 368
EA142-B
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA142-B.dwg LAYOUT NAME: EA142-B PLOTTED: Tuesday, April 28, 2015 - 8:54pm USER: Rhurst



CONSTRUCTION KEYNOTES

21 6 STRAND FIBER OPTIC CABLE FROM VAULT E-101 TO THE AIR TRAFFIC CONTROL TOWER PHASE 1.

29 SPLICE CONDUCTORS FOR CIRCUIT NO. T7.1 AND T7.2 INTO PRIMARY CIRCUITS AND ROUTE BACK TO VAULT E-101 COMPLETED UNDER PHASE 1.

30 ROUTE 3 #10 + #10 GND IN 2" PVC DIRECT BURY CONDUIT FROM PANELBOARD L-101, CIR. 16 TO WINDCONE.

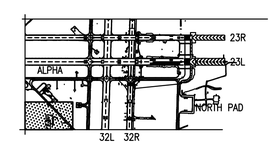
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP C



GRAPHIC SCALE

1"=50'

0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

JOHNSON, MIRMIRAN THOMPSON
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A Joint Venture
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Telephone: (757)499-1895
WEB: WWW.JMT.COM

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

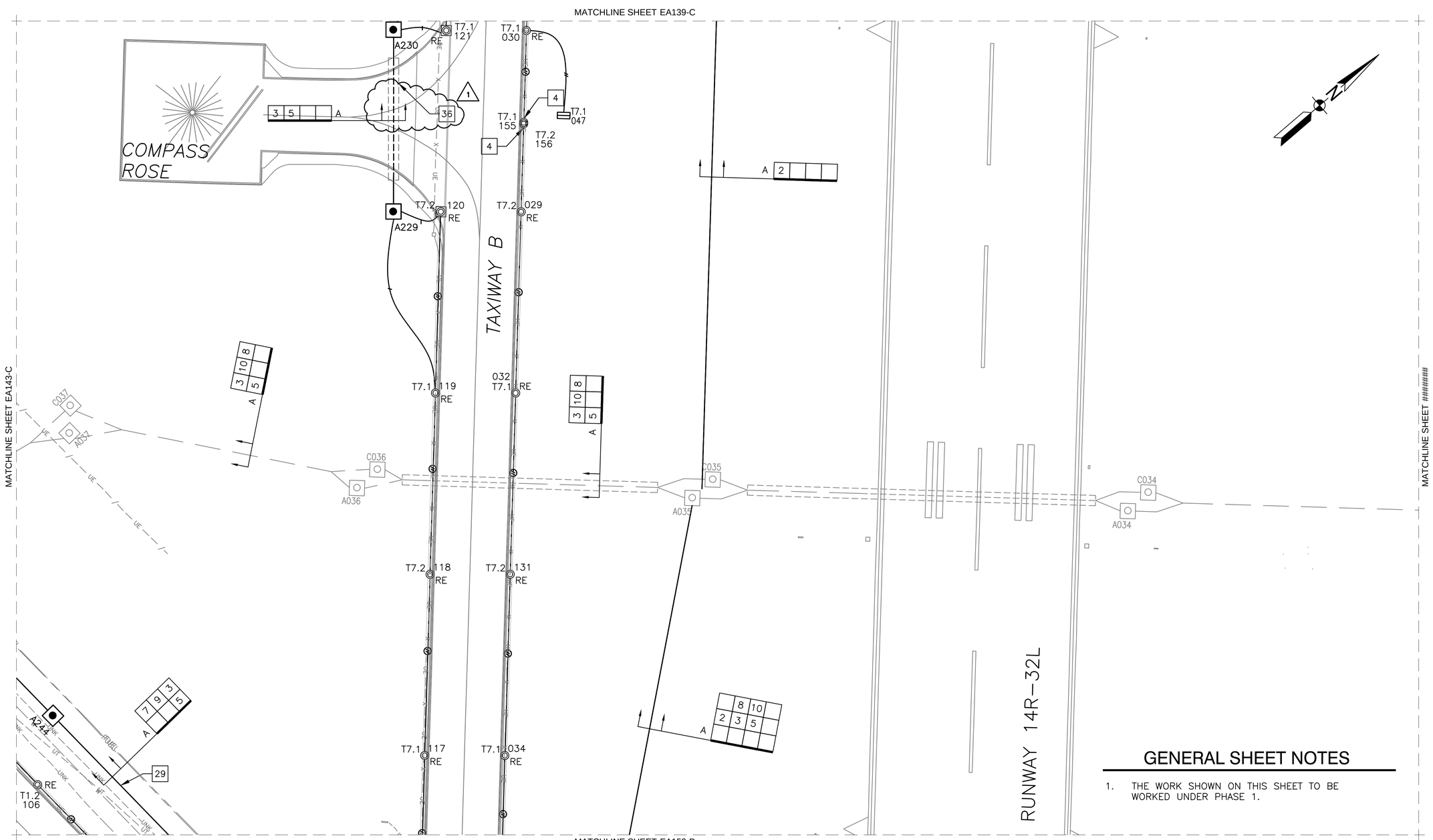
CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691751
SHEET 218 OF 368
EA143-C

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA143-C.dwg LAYOUT NAME: EA143-C PLOTTED: Tuesday, April 28, 2015 - 8:55pm USER: Rhurst



GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

CONSTRUCTION KEYNOTES

4 PROVIDE L–861T OMNI–DIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT WITH YELLOW LENS, INCLUDING LIGHT BASE AND ISOLATIC TRANSFORMER, REFER TO DETAIL 1, SHEET EA510.

29 SPLICE CONDUCTORS FOR CIRCUIT NO. T7.1 AND T7.2 INTO PRIMARY CIRCUITS AND ROUTE BACK TO VAULT E–101 COMPLETED UNDER PHASE 1.

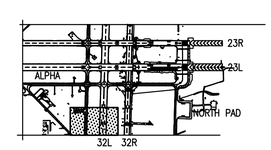
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'–0"

36 DUCTBANKS INSTALLED IN RUNWAY OR TAXIWAY PCC PAVEMENT SHALL BE INSTALLED NEAR THE CENTER OF A ROW OF SLAB SECTION TO ENSURE THE REMOVAL OF ONE SLAB ROW ACROSS THE RUNWAY OR TAXIWAY.

1

KEY MAP C



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

1

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB | DRW RRR | CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HQ IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA ~ VIRGINIA BEACH, VIRGINIA

NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA

ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2

PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'–0"

EPROJECT NO.: 1291651

CONSTR. CONTR. NO.

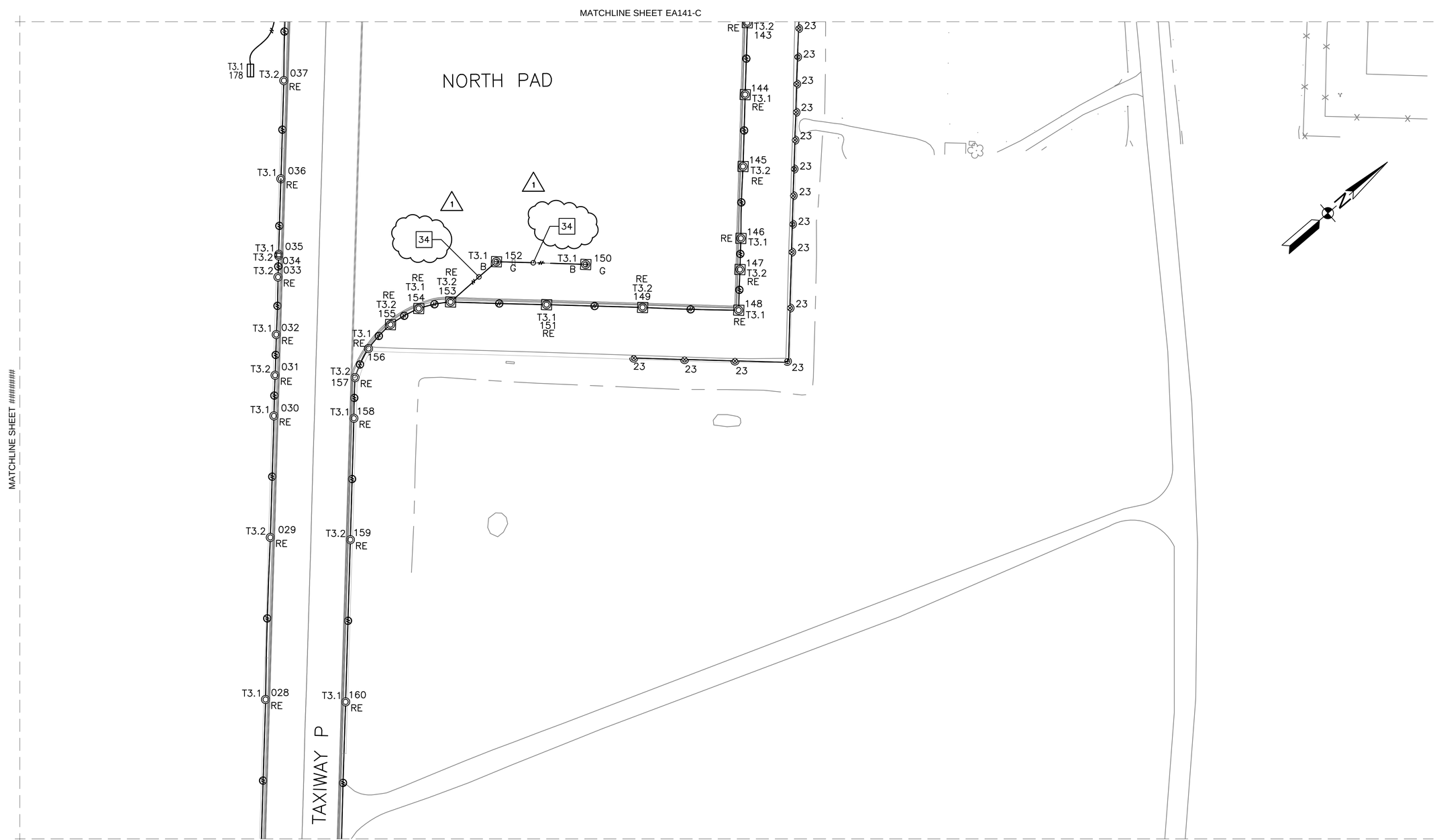
NAVFAC DRAWING NO.
12691752

SHEET 219 OF 368

EA144-C

DRAWING REVISION: 11 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA144-C.dwg LAYOUT NAME: EA144-C PLOTTED: Tuesday, April 28, 2015 – 8:56pm USER: Rhurst



CONSTRUCTION KEYNOTES

34 DIRECTIONAL DRILL 2" RGS CONDUIT TO PAVEMENT OPENING, REFER TO DETAIL 4, SHEET EA512, CIRCUITING SHOWN IS DIAGRAMMATICAL IN NATURE AND NOT INTENDED TO BE INSTALLED AS DEPICTED. (1)

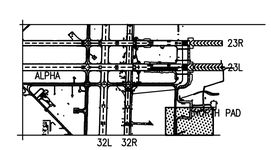
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP C



GRAPHIC SCALE

1"=50'

0 50' 100' 200'

(1)

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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A/E INFO

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ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

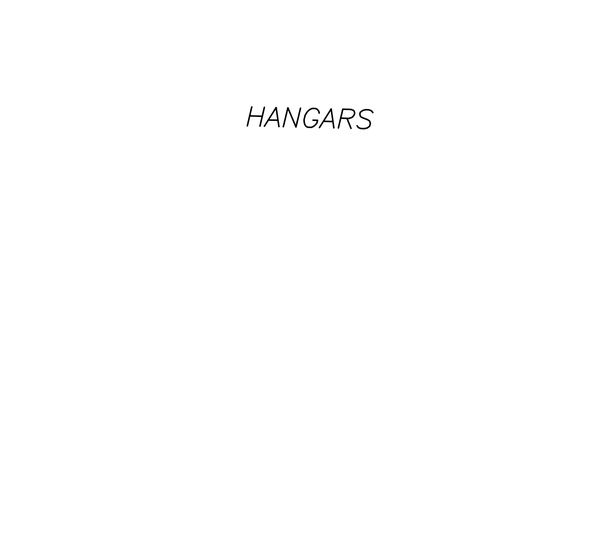
CHIEF ENG/ARCH

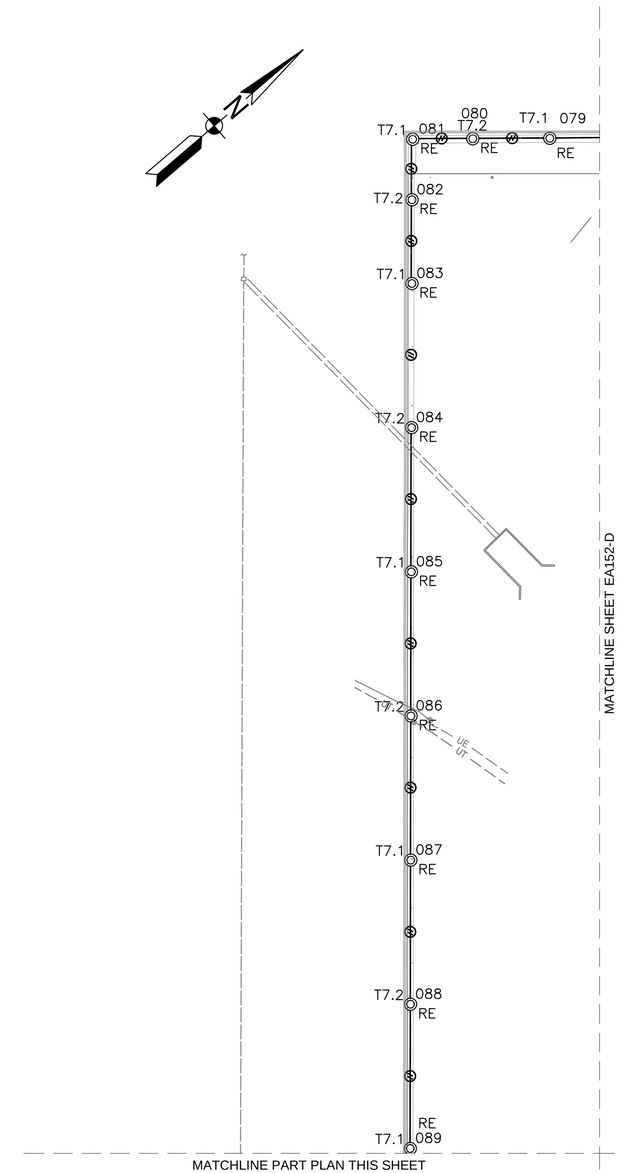
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691753
SHEET 220 OF 368
EA146-C
DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\SMD\100863_008_Energy_and_Reliabili\CADD\ELECTRICAL\10-0863-008-EA146-C.dwg LAYOUT NAME: EA146-C PLOTTED: Tuesday, April 28, 2015 - 8:57pm USER: Rhurst

HANGARS





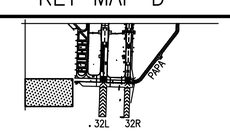
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP D



GRAPHIC SCALE

1"=50'

0 50' 100' 200'

1

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

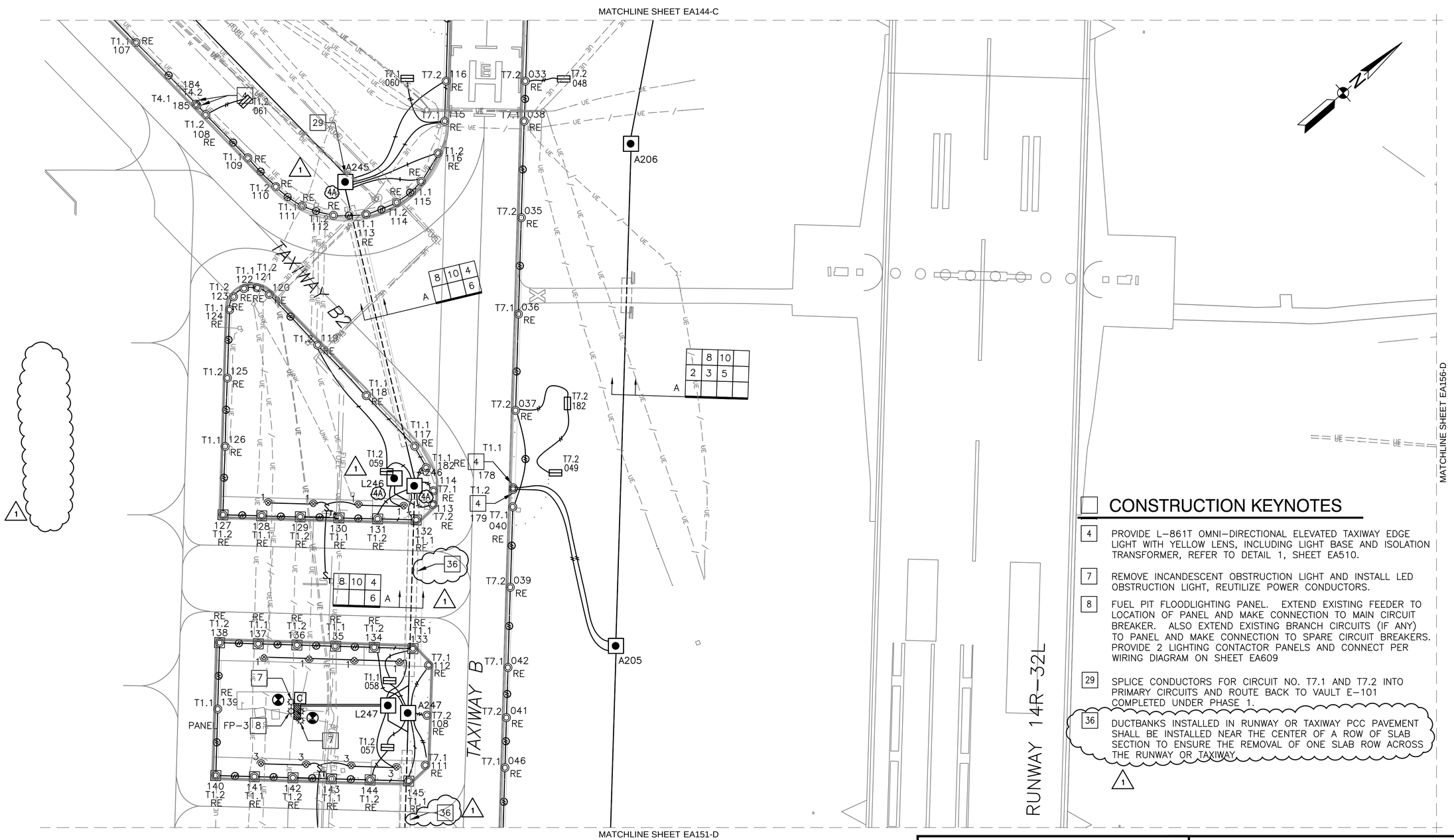
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691754
SHEET 221 OF 368

EA149-D

DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\SMD\100863_008_Energy_and_Reliabilit\CADD\ELECTRICAL\10-0863-008-EA149-D.dwg LAYOUT NAME: EA149-D PLOTTED: Tuesday, April 28, 2015 - 8:58pm USER: Rhurst



PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

CONSTRUCTION KEYNOTES

4 PROVIDE L–861T OMNI–DIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT WITH YELLOW LENS, INCLUDING LIGHT BASE AND ISOLATION TRANSFORMER, REFER TO DETAIL 1, SHEET EA510.

7 REMOVE INCANDESCENT OBSTRUCTION LIGHT AND INSTALL LED OBSTRUCTION LIGHT, REUTILIZE POWER CONDUCTORS.

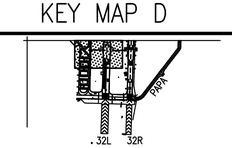
8 FUEL PIT FLOODLIGHTING PANEL. EXTEND EXISTING FEEDER TO LOCATION OF PANEL AND MAKE CONNECTION TO MAIN CIRCUIT BREAKER. ALSO EXTEND EXISTING BRANCH CIRCUITS (IF ANY) TO PANEL AND MAKE CONNECTION TO SPARE CIRCUIT BREAKERS. PROVIDE 2 LIGHTING CONTACTOR PANELS AND CONNECT PER WIRING DIAGRAM ON SHEET EA609

29 SPLICE CONDUCTORS FOR CIRCUIT NO. T7.1 AND T7.2 INTO PRIMARY CIRCUITS AND ROUTE BACK TO VAULT E–101 COMPLETED UNDER PHASE 1.

36 DUCTBANKS INSTALLED IN RUNWAY OR TAXIWAY PCC PAVEMENT SHALL BE INSTALLED NEAR THE CENTER OF A ROW OF SLAB SECTION TO ENSURE THE REMOVAL OF ONE SLAB ROW ACROSS THE RUNWAY OR TAXIWAY

1

KEY MAP D



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

STM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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WEB: WWW.JMT.COM

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA

NAVAL AIR STATION OCEANA VIRGINIA BEACH, VIRGINIA

ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2

PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'–0"

EPROJECT NO.: 1291651

CONSTR. CONTR. NO.

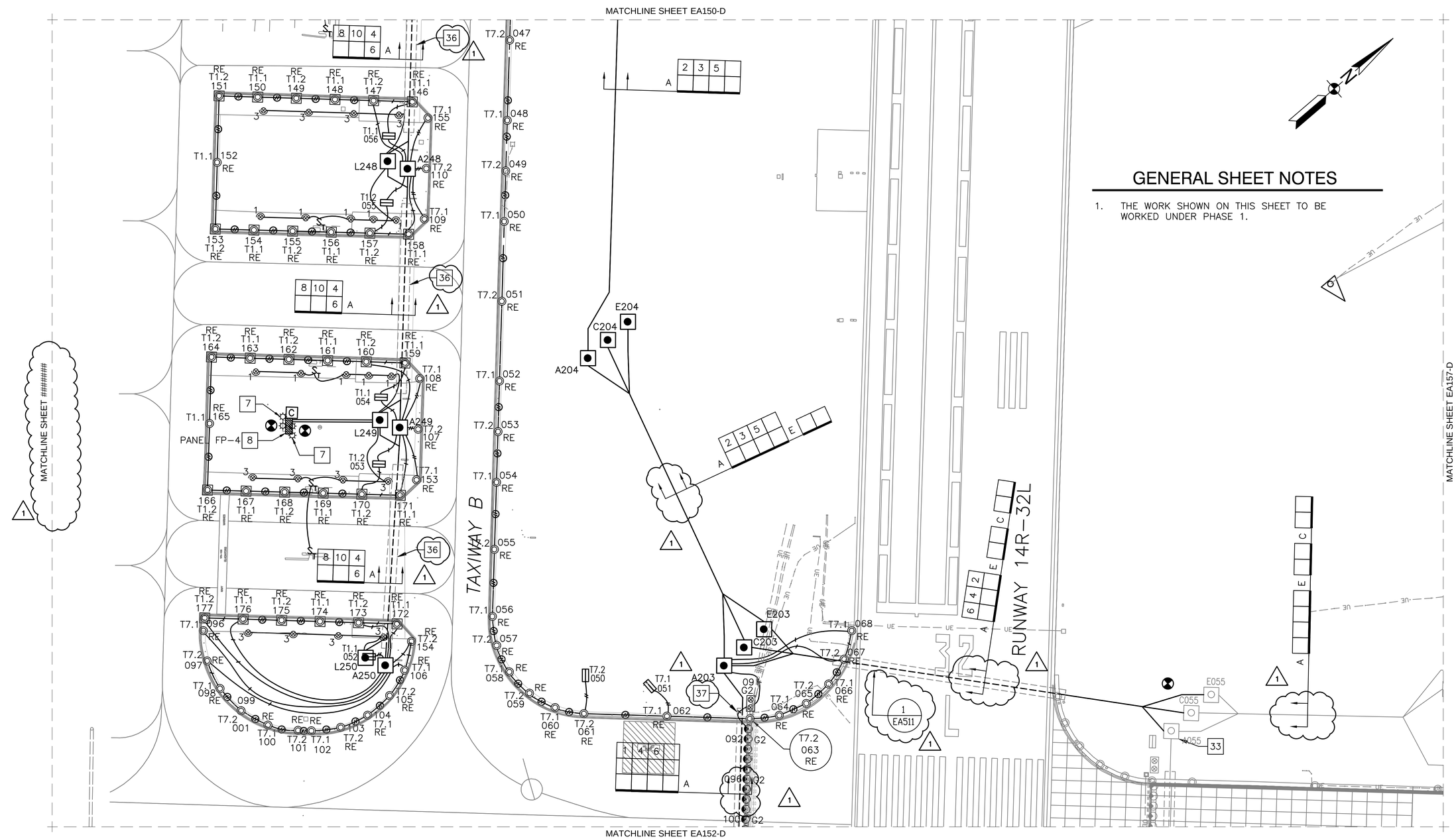
NAVFAC DRAWING NO.
12691755

SHEET 222 OF 368

EA150-D

DRAWING REVISED: 1st MARCH 2006

FILE NAME: G:\SMD\100963_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0963-008-EA150-D.dwg LAYOUT NAME: EA150-D PLOTTED: Tuesday, April 28, 2015 - 8:59pm USER: Rhurst



GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

CONSTRUCTION KEYNOTES

7 REMOVE INCANDESCENT OBSTRUCTION LIGHT AND INSTALL LED OBSTRUCTION LIGHT, REUTILIZE POWER CONDUCTORS.

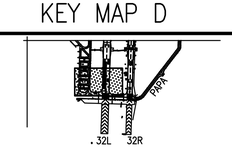
8 FUEL PIT FLOODLIGHTING PANEL. EXTEND EXISTING FEEDER TO LOCATION OF PANEL AND MAKE CONNECTION TO MAIN CIRCUIT BREAKER. ALSO EXTEND EXISTING BRANCH CIRCUITS (IF ANY) TO PANEL AND MAKE CONNECTION TO SPARE CIRCUIT BREAKERS. PROVIDE 2 LIGHTING CONTACTOR PANELS AND CONNECT PER WIRING DIAGRAM ON SHEET EA609

33 SPLICE CIRCUIT T7.1 AND 7.2 TO EXISTING CIRCUIT CONDUCTORS INSTALLED UNDER ANOTHER CONTRACT.

36 DUCTBANKS INSTALLED IN RUNWAY OR TAXIWAY PCC PAVEMENT SHALL BE INSTALLED NEAR THE CENTER OF A ROW OF SLAB SECTION TO ENSURE THE REMOVAL OF ONE SLAB ROW ACROSS THE RUNWAY OR TAXIWAY.

37 INSTALL DUCTBANK PARALLEL WITH RUNWAY GUARD LIGHTS AND SHALL SHARE A TRENCH WITH THE GUARD LIGHTS.

KEY MAP D



GRAPHIC SCALE

1"=50'

0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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Telephone: (757)499-1895
WEB: WWW.JMT.COM

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

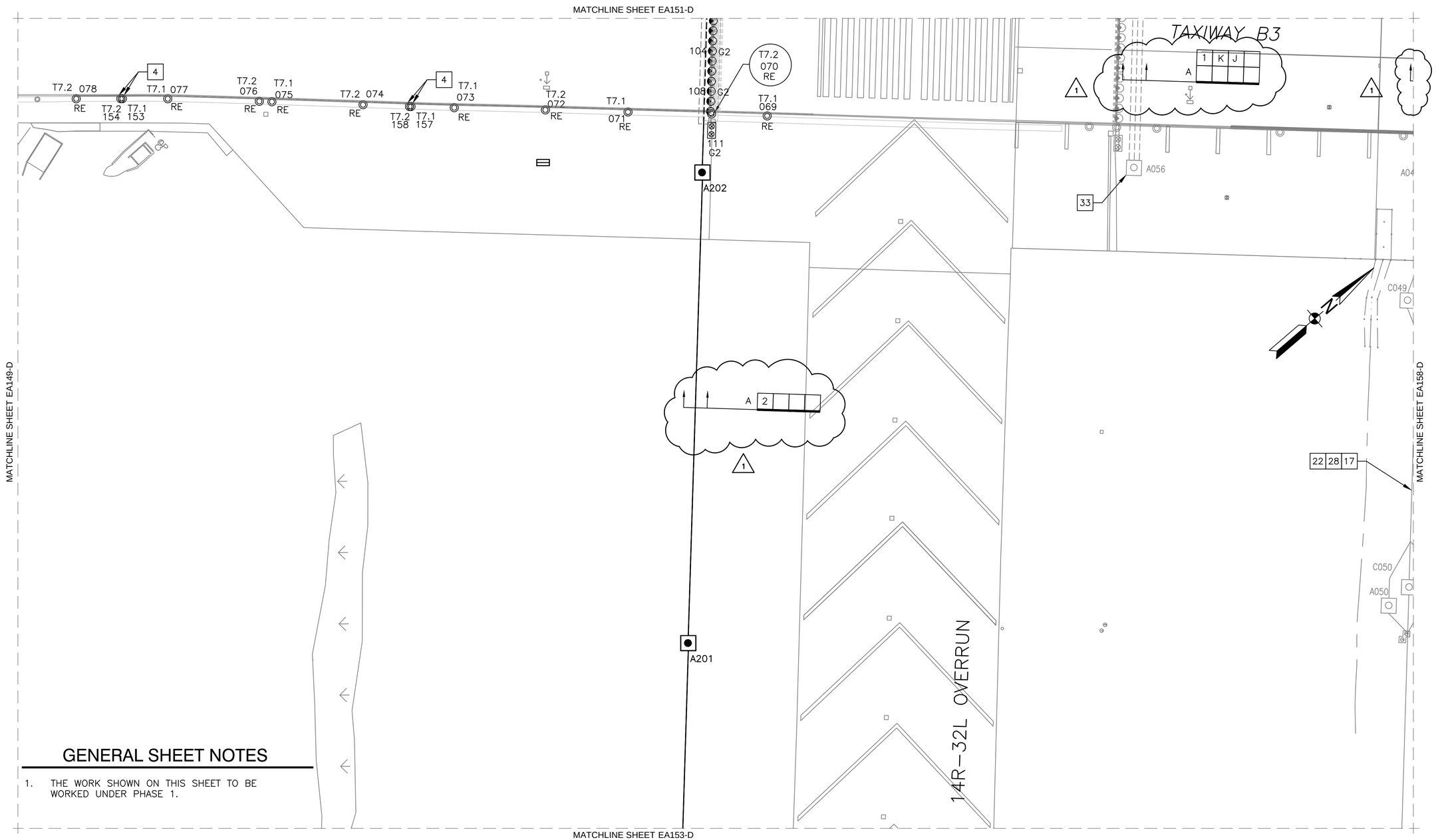
BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA ~ VIRGINIA BEACH, VIRGINIA
HR IPT
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691756
SHEET 223 OF 368
EA151-D
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliability\CADD\ELECTRICAL\10-0863-008-EA151-D.dwg LAYOUT NAME: EA151-D PLOTTED: Tuesday, April 28, 2015 - 9:00pm USER: Rhurst



GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

CONSTRUCTION KEYNOTES

4 PROVIDE L-861T OMNI-DIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT WITH YELLOW LENS, INCLUDING LIGHT BASE AND ISOLATION TRANSFORMER, REFER TO DETAIL 1, SHEET EA510.

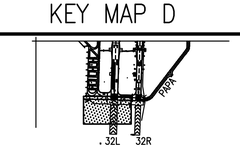
17 CIRCUIT NO. T3.1 AND T3.2 FROM VAULT E-145 TO BE COMPLETED UNDER PHASE 1 CIRCUIT WILL BE REMOVED UNDER PHASE 2. SPLICE REMAINING PRIMARY CONDUCTORS TO UPON REMOVAL.

22 TAXIWAY CIRCUITS T3.1 AND T3.2 WORKED UNDER PHASE 1.

28 CIRCUIT NO. T7.1 AND T7.2 FROM VAULT E-145 TO BE COMPLETED UNDER ANOTHER CONTRACT CIRCUIT WILL BE REMOVED UNDER PHASE 1. SPLICE REMAINING PRIMARY CONDUCTORS TO UPON REMOVAL.

33 SPLICE CIRCUIT T7.1 AND 7.2 TO EXISTING CIRCUIT CONDUCTORS INSTALLED UNDER ANOTHER CONTRACT.

KEY MAP D



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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Telephone: (757)499-1895
WEB: WWW.JMT.COM

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

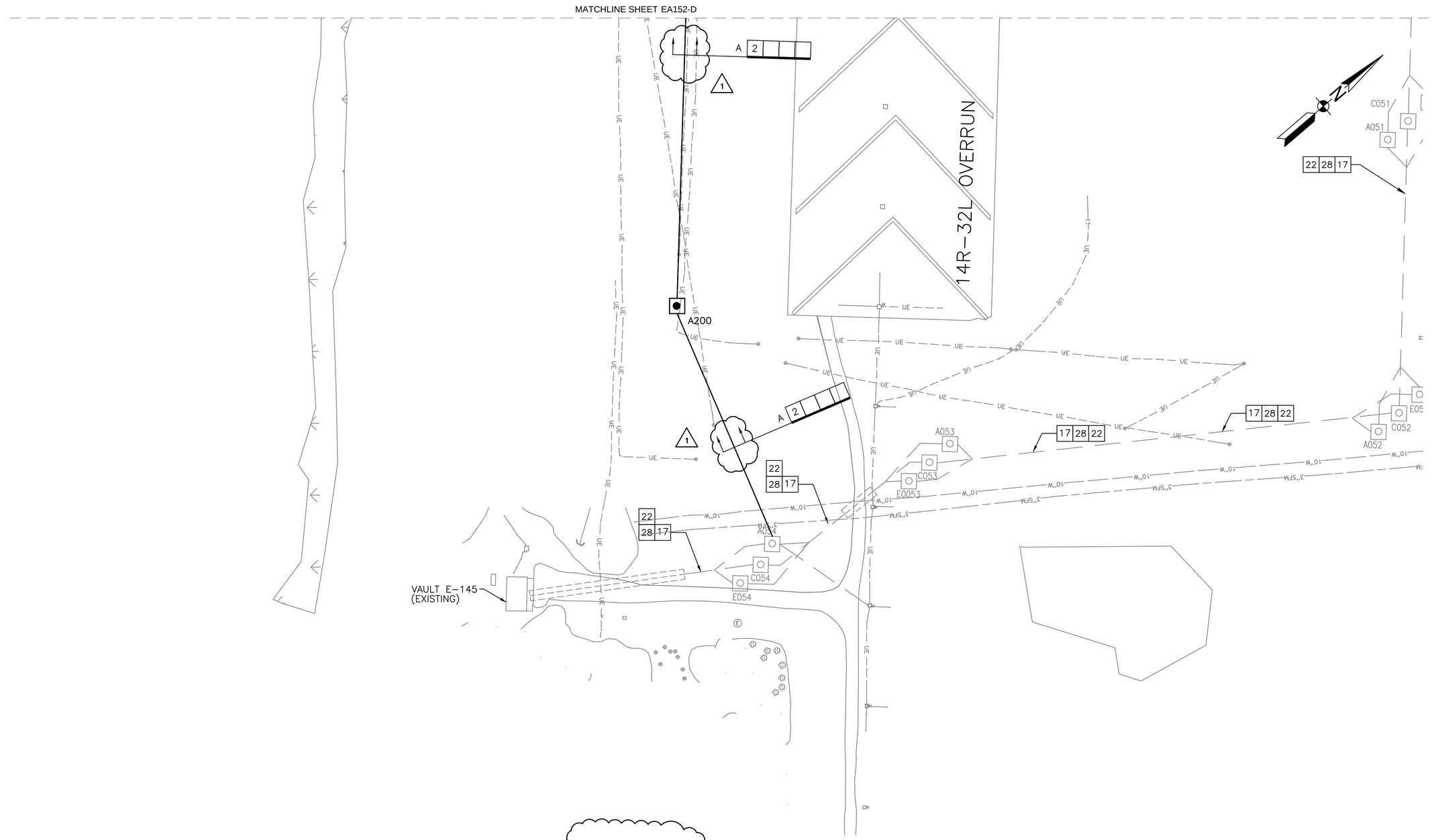
CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA - VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN - CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691757
SHEET 224 OF 368
EA152-D

DRAWING REVISION: 17 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabili\CADD\ELECTRICAL\10-0863-008-EA152-D.dwg LAYOUT NAME: EA152-D PLOTTED: Tuesday, April 28, 2015 - 9:01pm USER: Rhurst



CONSTRUCTION KEYNOTES

17 CIRCUIT NO. T3.1 AND T3.2 FROM VAULT E–145 TO BE COMPLETED UNDER PHASE 1 CIRCUIT WILL BE REMOVED UNDER PHASE 2. SPLICE REMAINING PRIMARY CONDUCTORS TO UPON REMOVAL.

22 TAXIWAY CIRCUITS T3.1 AND T3.2 WORKED UNDER PHASE 1.

28 CIRCUIT NO. T7.1 AND T7.2 FROM VAULT E–145 TO BE COMPLETED UNDER ANOTHER CONTRACT CIRCUIT WILL BE REMOVED UNDER PHASE 1. SPLICE REMAINING PRIMARY CONDUCTORS TO UPON REMOVAL.

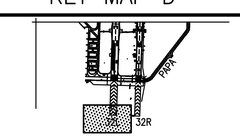
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'–0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP D



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

JOHNSON, MIRMIRAN THOMPSON
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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB | DRW RRR | CHK DJP

PM/DM

BRANCH MANAGER

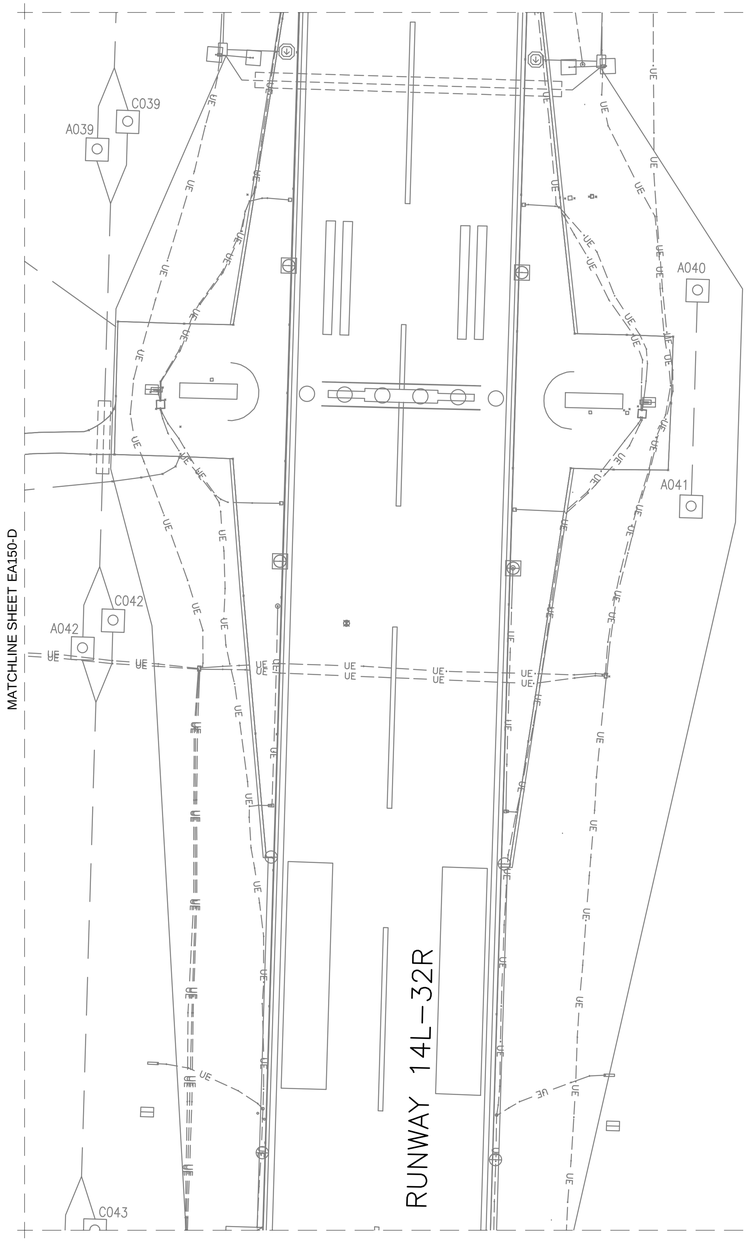
CHIEF ENG/ARCH

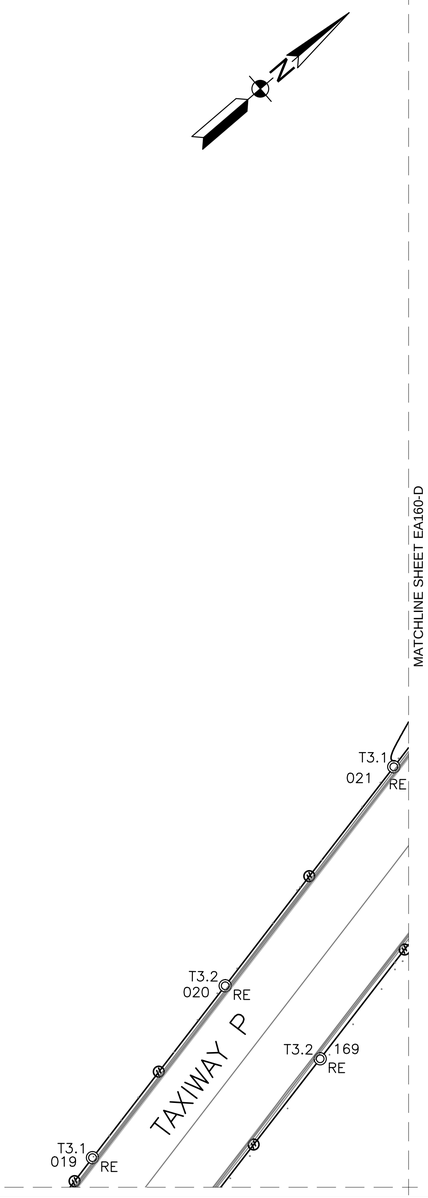
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
HR IPT
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'–0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691758
SHEET 225 OF 368
EA153-D

DRAWING REVISION: 17 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliab\CADD\ELECTRICAL\10-0863-008-EA153-D.dwg LAYOUT NAME: EA153-D PLOTTED: Tuesday, April 28, 2015 - 9:02pm USER: Rhurst





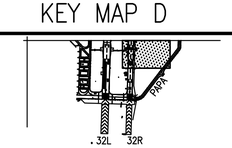
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP D



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT

NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NAVAL AIR STATION OCEANA - VIRGINIA BEACH, VIRGINIA

NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA

ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2

PARTIAL SITE PLAN - CONSTRUCTION

SCALE: 1" = 50'-0"

EPROJECT NO.: 1291651

CONSTR. CONTR. NO.

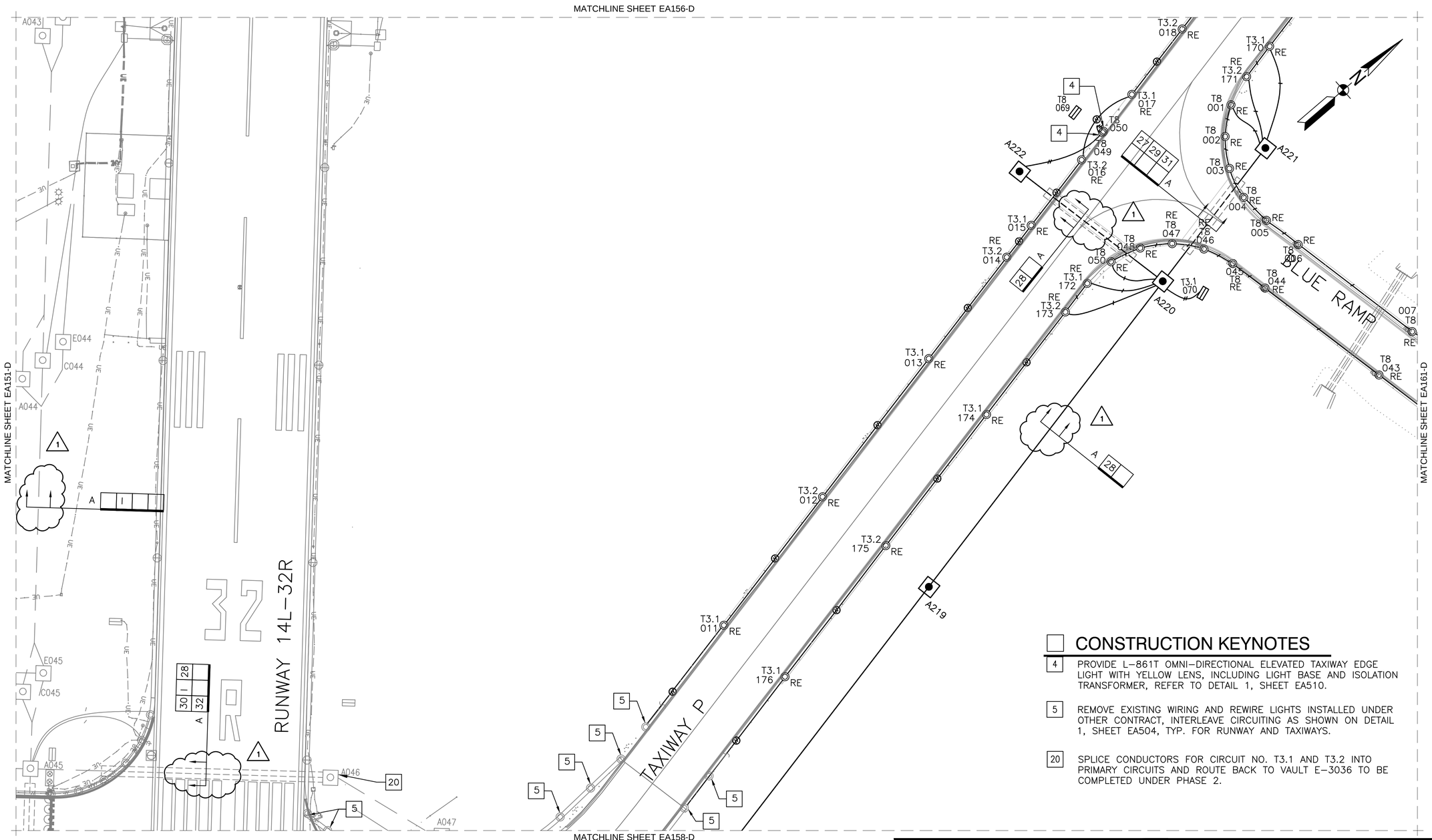
NAVFAC DRAWING NO.
12691759

SHEET 226 368

EA156-D

DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\SMD\100863_008_Energy_and_Reliabilt\CADD\ELECTRICAL\10-0863-008-EA156-D.dwg LAYOUT NAME: EA156-D PLOTTED: Tuesday, April 28, 2015 - 9:03pm USER: Rhurst



CONSTRUCTION KEYNOTES

4 PROVIDE L–861T OMNI–DIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT WITH YELLOW LENS, INCLUDING LIGHT BASE AND ISOLATION TRANSFORMER, REFER TO DETAIL 1, SHEET EA510.

5 REMOVE EXISTING WIRING AND REWIRE LIGHTS INSTALLED UNDER OTHER CONTRACT, INTERLEAVE CIRCUITING AS SHOWN ON DETAIL 1, SHEET EA504, TYP. FOR RUNWAY AND TAXIWAYS.

20 SPLICE CONDUCTORS FOR CIRCUIT NO. T3.1 AND T3.2 INTO PRIMARY CIRCUITS AND ROUTE BACK TO VAULT E–3036 TO BE COMPLETED UNDER PHASE 2.

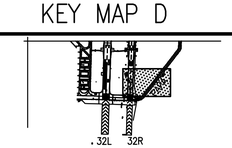
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'–0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP D



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

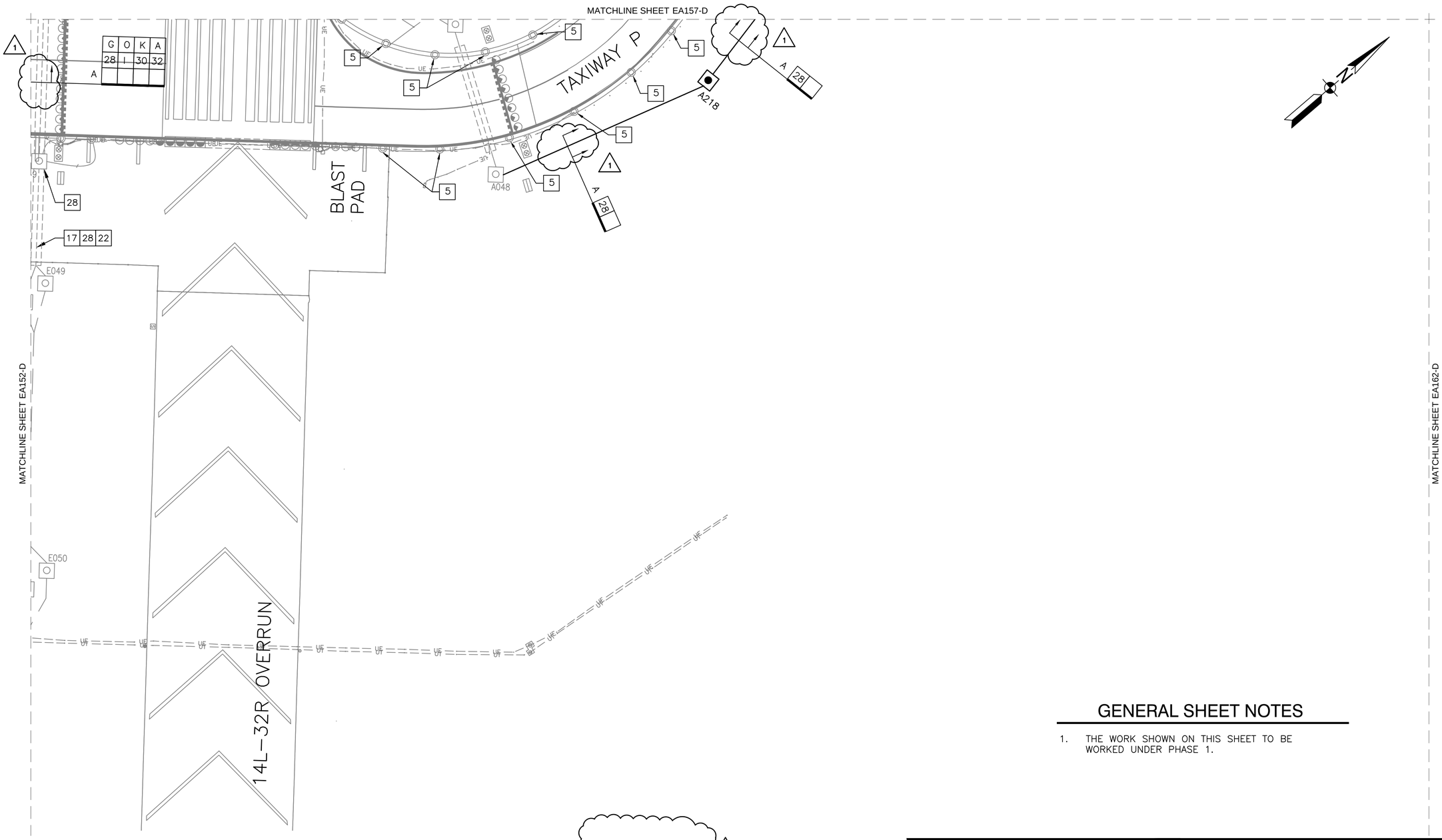
BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
HR IPT
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'–0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.: 12691760
SHEET 227 OF 368
EA157-D
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA157-D.dwg LAYOUT NAME: EA157-D PLOTTED: Tuesday, April 28, 2015 - 9:04pm USER: Rhorst



CONSTRUCTION KEYNOTES

5 REMOVE EXISTING WIRING AND REWIRE LIGHTS INSTALLED UNDER OTHER CONTRACT, INTERLEAVE CIRCUITING AS SHOWN ON DETAIL 1, SHEET EA504, TYP. FOR RUNWAY AND TAXIWAYS.

17 CIRCUIT NO. T3.1 AND T3.2 FROM VAULT E–145 TO BE COMPLETED UNDER PHASE 1 CIRCUIT WILL BE REMOVED UNDER PHASE 2. SPLICE REMAINING PRIMARY CONDUCTORS TO UPON REMOVAL.

22 TAXIWAY CIRCUITS T3.1 AND T3.2 WORKED UNDER PHASE 1.

28 CIRCUIT NO. T7.1 AND T7.2 FROM VAULT E–145 TO BE COMPLETED UNDER ANOTHER CONTRACT CIRCUIT WILL BE REMOVED UNDER PHASE 1. SPLICE REMAINING PRIMARY CONDUCTORS TO UPON REMOVAL.

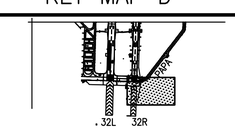
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'–0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP D



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JRB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

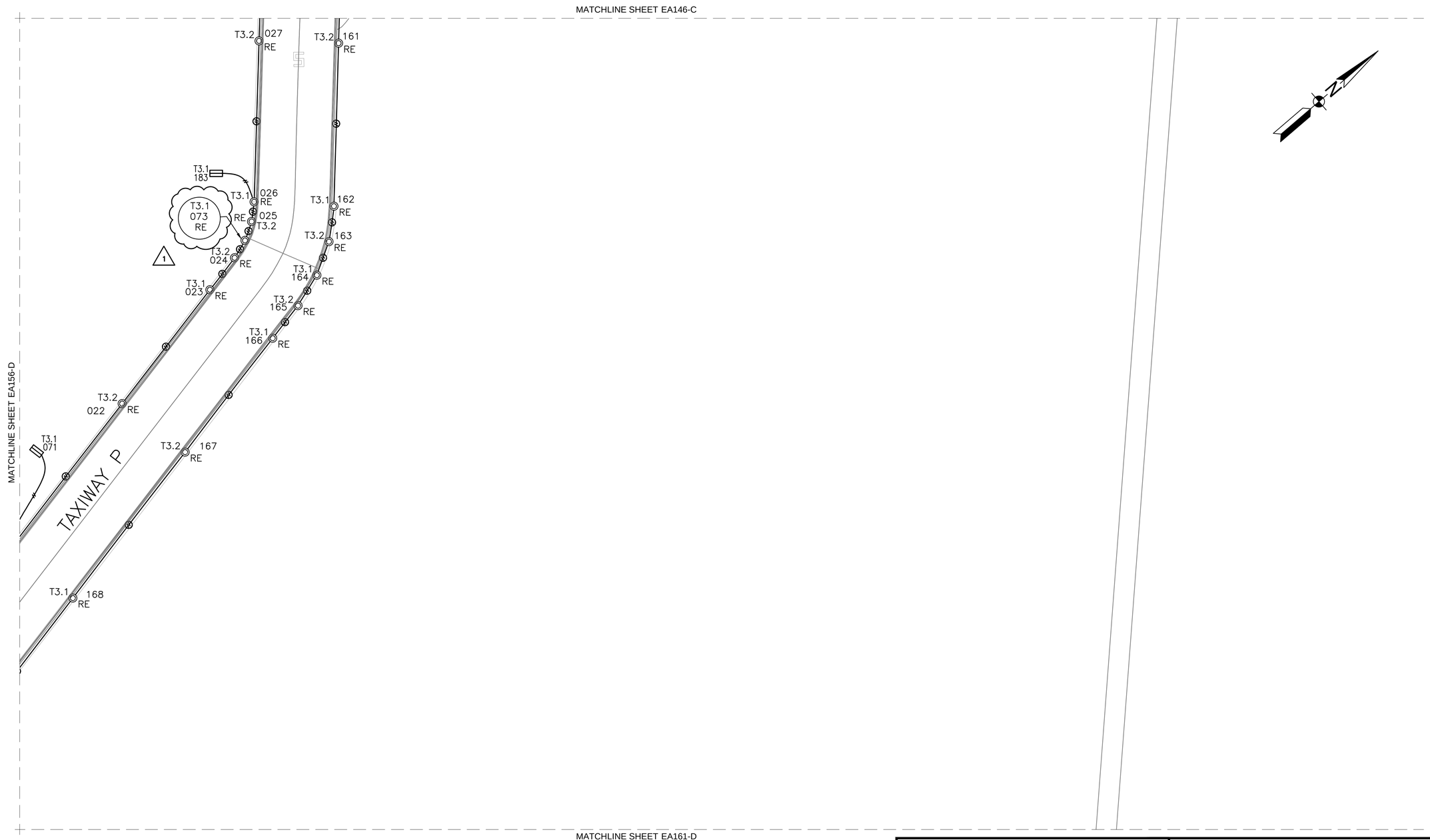
CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA ~ VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'–0"
I-PROJECT NO: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691761
SHEET 228 368
EA158-D

DRAWING REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA158-D.dwg LAYOUT NAME: EA158-D PLOTTED: Tuesday, April 28, 2015 - 9:05pm USER: Rhurst



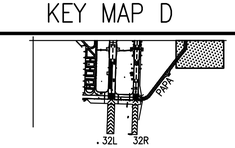
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP D



GRAPHIC SCALE

1"=50'

0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

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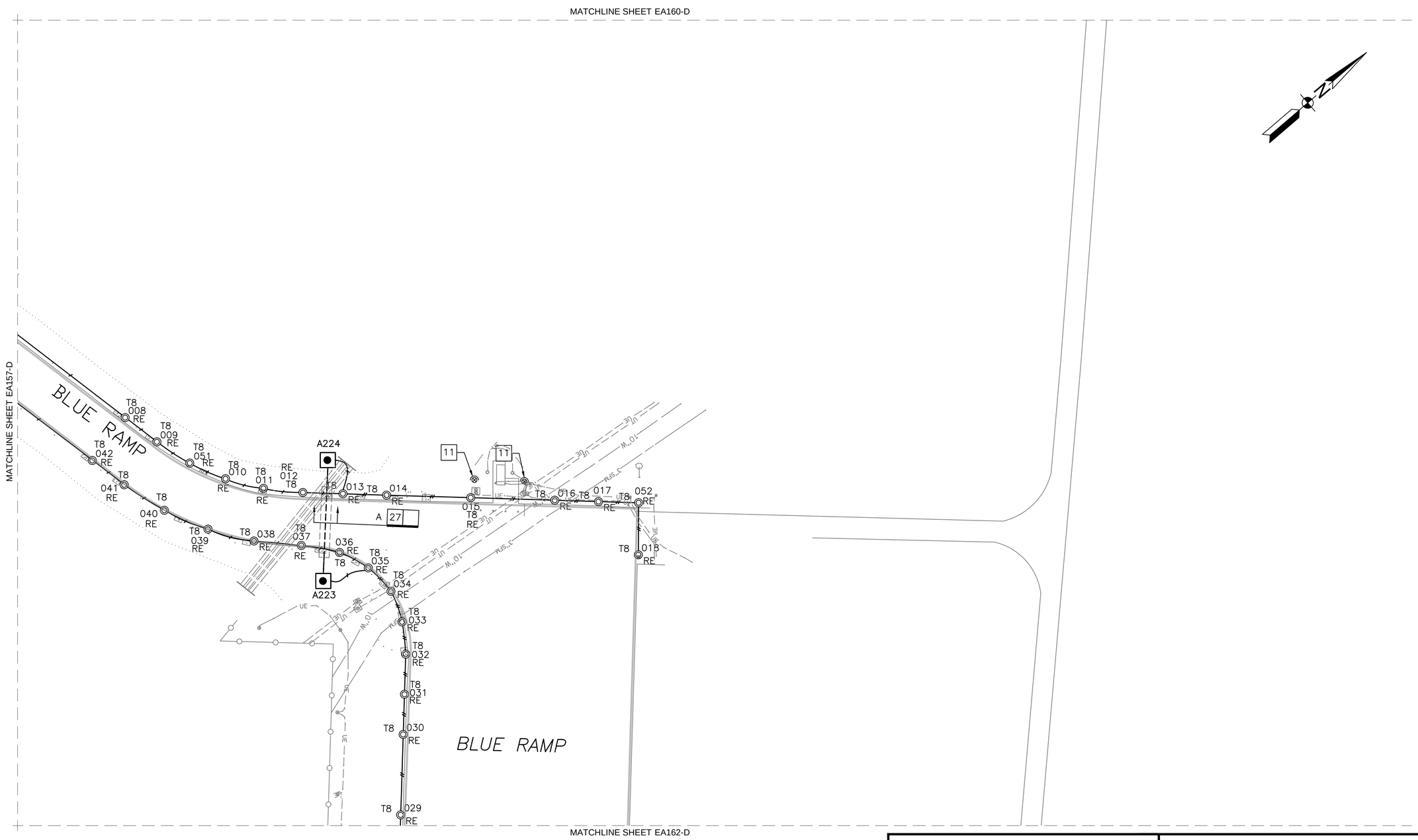
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691762
SHEET 229 OF 368
EA160-D

DRAWING REVISED: 1st MARCH 2008

FILE NAME: G:\SMD\100963_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0963-008-EA160-D.dwg LAYOUT NAME: EA160-D PLOTTED: Tuesday, April 28, 2015 - 9:06pm USER: Rhurst



CONSTRUCTION KEYNOTES

11 FLOODLIGHT INSTALLED ON EXISTING LIGHT BASE. UTILIZE EXISTING CIRCUITS CONDUCTORS AND CONNECT TO LIGHT FIXTURE.

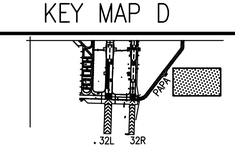
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP D



GRAPHIC SCALE

1"=50'

0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

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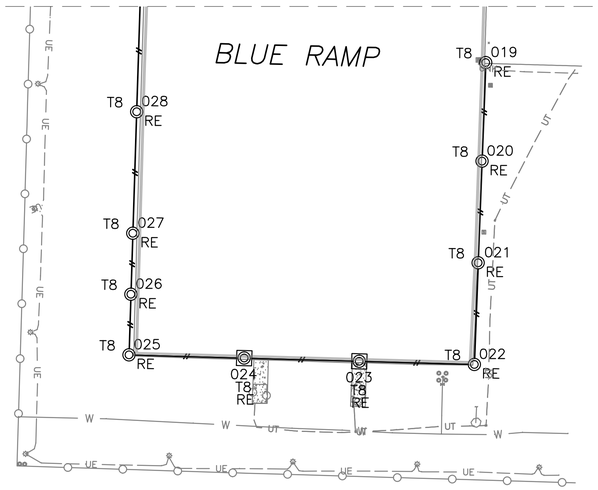
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691763
SHEET 230 OF 368
EA161-D
DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\SMD\100863_008_Energy_and_Reliabi\CADD\ELECTRICAL\10-0863-008-EA161-D.dwg LAYOUT NAME: EA161-D PLOTTED: Tuesday, April 28, 2015 - 9:06pm USER: Rhurst

MATCHLINE SHEET EA161-D



MATCHLINE SHEET EA158-D

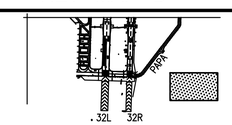
PARTIAL SITE PLAN - CONSTRUCTION

1" = 50'-0"

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS SHEET TO BE WORKED UNDER PHASE 1.

KEY MAP D



GRAPHIC SCALE

1"=50' 0 50' 100' 200'

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

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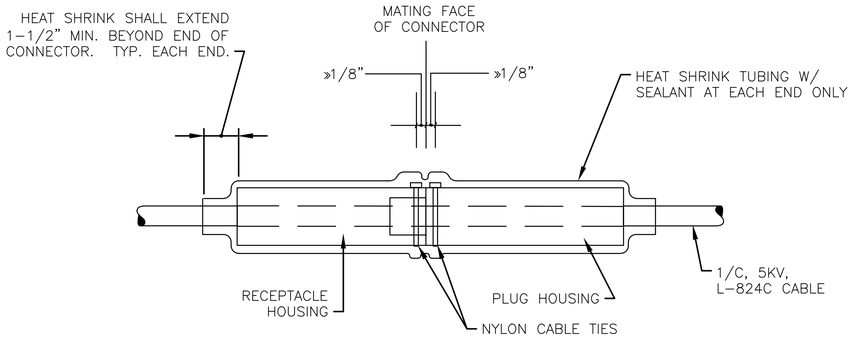
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
PARTIAL SITE PLAN – CONSTRUCTION

SCALE: 1" = 50'-0"
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12691764
SHEET 231 OF 368
EA162-D

DRAWING REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA162-D.dwg LAYOUT NAME: EA162-D PLOTTED: Tuesday, April 28, 2015 - 9:07pm USER: Rhurst



FIELD ATTACHED PLUG-IN SPLICE FAA TYPE L-823 (1)

NOT TO SCALE EA503

NOTES:

1. INTERIOR PIN AND SOCKETS ARE NOT SHOWN FOR CLARITY.
2. ATTACH EACH CABLE TIE >>1/8" FROM THE MATING FACE OF THE CONNECTOR HOUSING. TIGHTEN CABLE TIE ENOUGH TO HOLD IN PLACE WITHOUT COMPRESSING HOUSING. TRIM OFF EXCESS CABLE TIE.
3. INSTALLATION OF L-823 AND HEAT SHRINK TUBING SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURERS REQUIREMENTS.

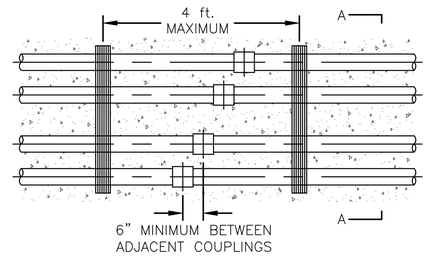
DUCT BANK NOTES:

A. FOR SIZE AND NUMBER OF CONDUITS AS WELL AS DUCT BANK FORMATION, SEE PLANS.

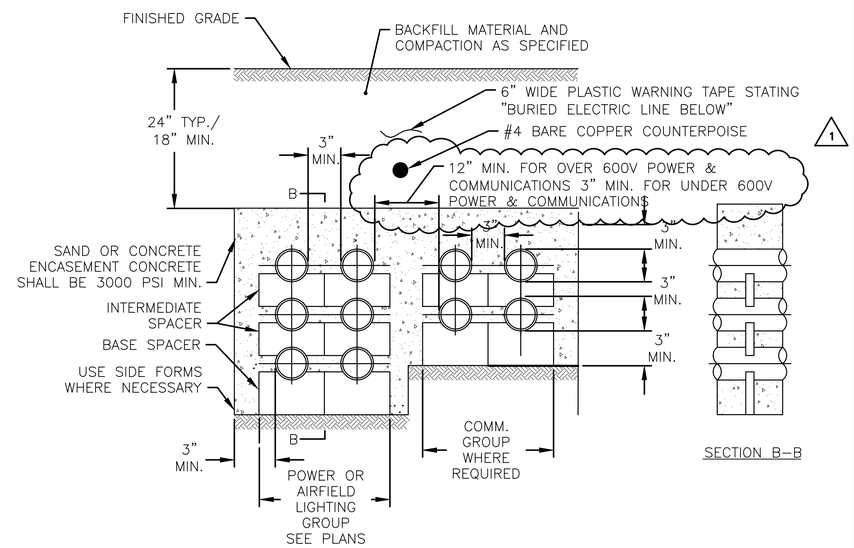
B. THE COMMUNICATIONS CONDUIT GROUP SHALL BE SEPARATED FROM THE POWER GROUP ON EITHER LEFT OR RIGHT SIDE, SEE EA100 SERIES SHEETS FOR PLANS, EA700 SERIES FOR HANDHOLE/MANHOLE DIAGRAMS.

C. CONCRETE COVER ON TOP, BOTTOM AND SIDES SHALL BE 3" MINIMUM.

CONDUIT SUPPORT AND SUPPORT



PLAN



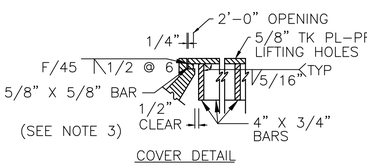
SECTION A-A

ENCASED DUCT BANK DETAILS TYPICAL ARRANGEMENTS (2)

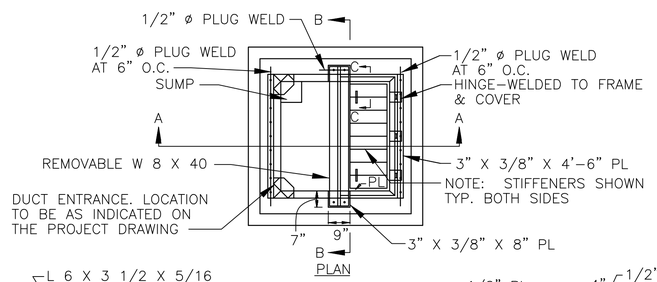
NOT TO SCALE EA503

NOTES:

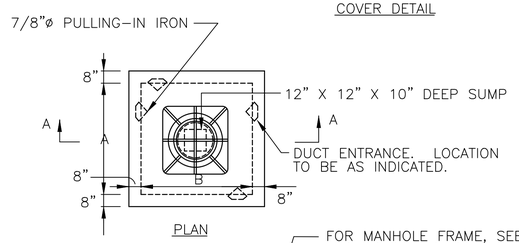
1. FOR NON-METALLIC CONDUITS, TERMINATE WITH PLASTIC COUPLINGS SET FLUSH WITH END OF CONCRETE ENVELOPE AND INSTALL PLASTIC PLUGS. FOR METALLIC CONDUITS, TERMINATE WITH METALLIC COUPLINGS SET FLUSH WITH END OF CONCRETE ENVELOPE AND INSTALL WELL-GREASED PLUMBERS PLUGS OR THREADED PLASTIC PLUGS.



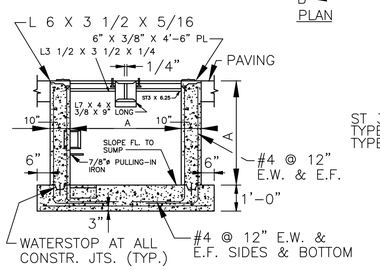
COVER DETAIL



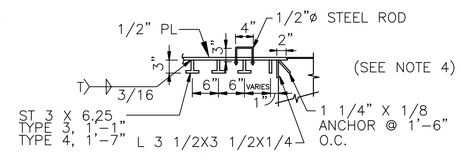
PLAN



PLAN



SECTION A-A

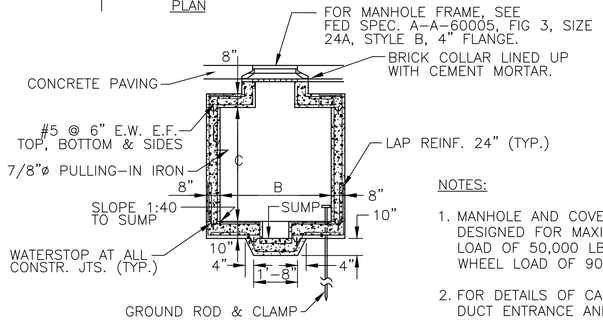


SECTION C-C

NOTES:

1. ENTRANCE OF DUCTS INTO HANDHOLE MAY BE MADE ON SIDE FACES OR CORNERS AS REQUIRED.
2. FOR DETAILS OF CABLE RACKS, DUCT ENTRANCE AND PULLING-IN IRONS, SEE THIS SHEET
3. HANDHOLE AND COVER IS DESIGNED FOR MAXIMUM SINGLE WHEEL LOAD OF 50,000 LB. OR DUAL WHEEL LOAD OF 90,000 LB.
4. COVER SHALL BE MADE OF STRUCTURAL STEEL CONFORMING TO ASTM A 36/A 36M.
5. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3000 PSI.

HANDHOLE	DIMENSIONS	
TYPE	A	B
4	4'-0"	4'-0"
4A	4'-0"	5'-0"



SECTION A-A

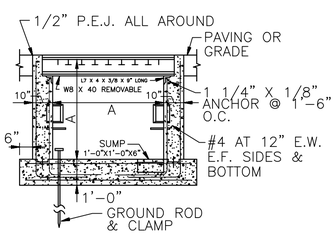
NOTES:

1. MANHOLE AND COVERS ARE DESIGNED FOR MAXIMUM WHEEL LOAD OF 50,000 LB OR DUAL WHEEL LOAD OF 90,000 LB.
2. FOR DETAILS OF CABLE RACKS, DUCT ENTRANCE AND PULLING-IN IRONS, SEE THIS SHEET
3. COVER SHALL BE MADE OF STRUCTURAL STEEL CONFORMING TO ASTM A 36/A 36M.
4. MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI.

MANHOLE DIMENSIONS			
TYPE	A	B	C (AT HIGH PT.)
5	6'-0"	6'-0"	6'-6"

STANDARD ELECTRICAL MANHOLE (AIRFIELD), TYPE 5 (3)

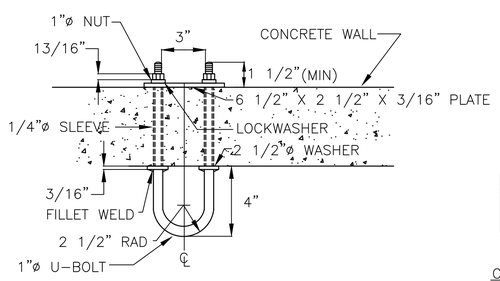
NOT TO SCALE EA503



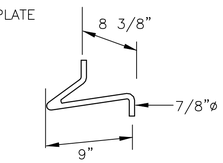
SECTION B-B

STANDARD ELECTRICAL HANDHOLE (TRAFFIC/AIRFIELD), TYPES 4 & 4A (4)

NOT TO SCALE EA503

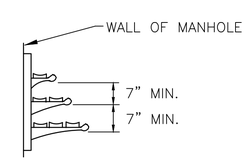


ALTERNATE METHOD

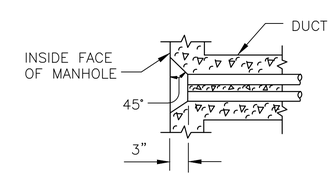


CAST IN PLACE

NOTE
ALL METAL PARTS SHALL BE HOT DIP GALVANIZED



DETAIL OF PULLING-IN IRON



TYPICAL CABLE RACK

TYPICAL DUCT ENTRANCE (5)

NOT TO SCALE EA503

SYM	DESCRIPTION	DATE	APPR
1	VARIOUS CHANGES	4/29/15	DJP

NAVFAC

SEAL

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RCH DRW RCH CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

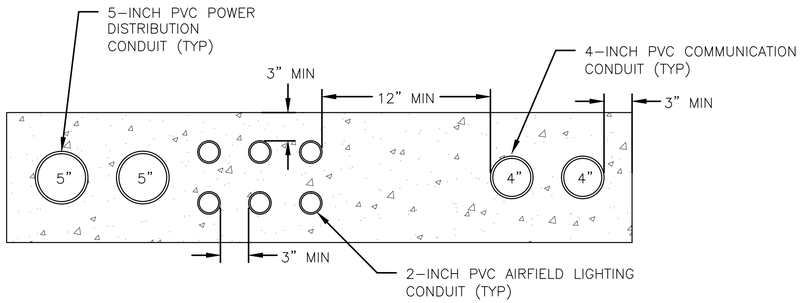
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION OCEANA, VIRGINIA BEACH, VIRGINIA
VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
ENERGY AND RELIABILITY
ELECTRICAL DETAILS

HR IPT

SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691767
SHEET 234 OF 368
EA503

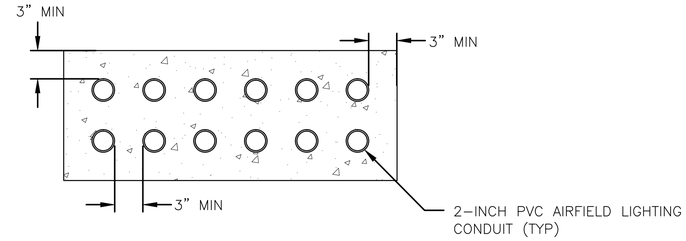
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMDV\100863_008_Energy_and_Reliabi\CADD\ELECTRICAL\10-0863-008-EA503.dwg LAYOUT NAME: EA503 PLOTTED: Tuesday, April 28, 2015 - 9:07pm USER: Rhurst



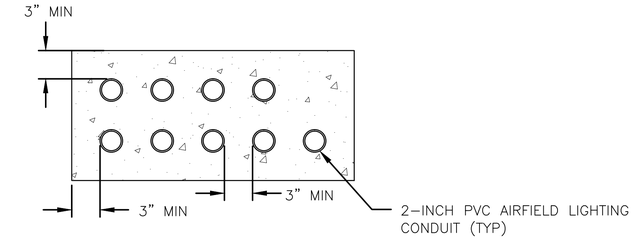
2W5", 2W4" & 6W2" CONCRETE ENCASED DUCT BANK (1)

NOT TO SCALE EA511



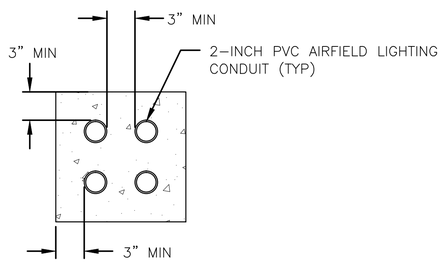
12W2" CONCRETE ENCASED DUCT BANK (2)

NOT TO SCALE EA511



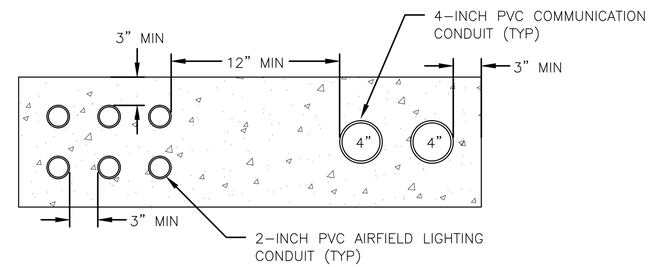
9W2" CONCRETE ENCASED DUCT BANK (3)

NOT TO SCALE EA511



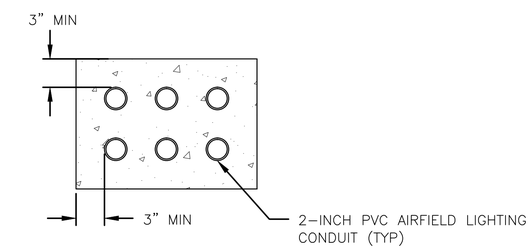
4W2" CONCRETE ENCASED DUCT BANK (4)

NOT TO SCALE EA511



2W4" & 12W2" CONCRETE ENCASED DUCT BANK (5)

NOT TO SCALE EA511

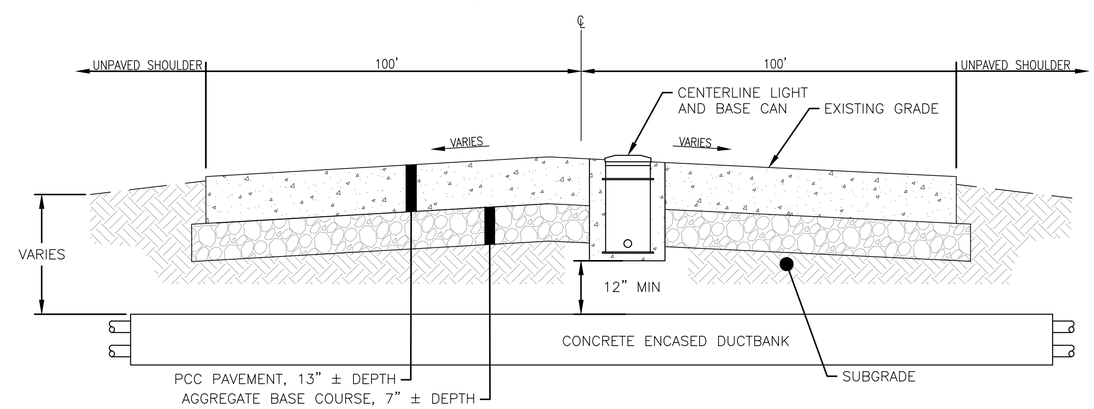


6W2" CONCRETE ENCASED DUCT BANK (6)

NOT TO SCALE EA511

CONCRTE ENCASED DUCTBANK NOTES:

1. REFER TO DETAIL 2, SHEET EA503 FOR MORE INFORMATION ON DUCTBANK CONSTRUCTION REQUIREMENTS INCLUDING DETECTABLE WARNING TAPE AND COUNTERPOISE REQUIREMENTS.
2. TOP OF CONCRETE ENCASEMENT SHALL BE BELOW THE RUNWAY SUB-GRADE MATERIAL, AT NO TIME SHALL DUCTBANKs BE LESS THAT 24" BELOW PAVEMENT SURFACE. REFER TO B-001, BB201, 202 AND 203 FOR BORING INFORMATION.
3. ALL DUCT SHALL SLOPE TOWARDS AN ELECTRICAL STRUCTURE 3 INCHES PER 100 FEET TO PROMOTE DRAINAGE.



CONCRETE ENCASED DUCT BANK BELOW CENTERLINE LIGHT IN PCC (7)

NOT TO SCALE EA511

CONCRTE ENCASED DUCTBANK NOTES:

1. INSTALL DUCTBANK BELOW CENTERLINE LIGHTING CIRCUIT CONDUIT.
2. REMOVE A SINGLE PCC SLAB IN-LINE WITHIN ONE ROW AND DUCTBANK IN ROW.
3. REMOVE WIRING BETWEEN CENTERLINE LIGHTS AND REMOVE PORTION OF CENTERLINE CONDUITS TO ALLOW INSTALLATION OF DUCTBANK CROSSING.
4. INSTALL CONDUIT AND CONCRETE ENCASED DUCTBANK AND CABLE FOR CENTERLINE LIGHTS AND RECONNECT CIRCUIT IN LIGHT BASES.

SYM	DESCRIPTION	DATE	APPR
1	ADD CONC. ENC. DUCTBANKS	4/29/15	DJP

NAVFAC

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A/E INFO

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SATISFACTORY TO DATE

DES SL DRW SL CHK DJP

PM/DM

BRANCH MANAGER

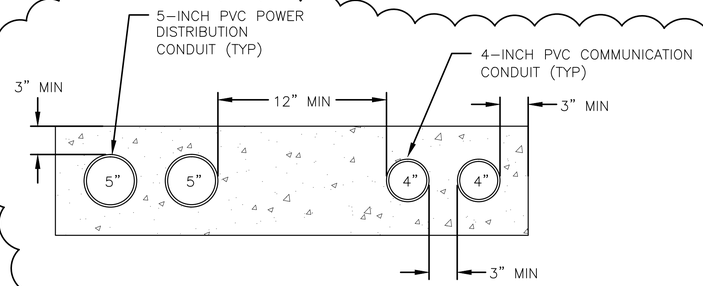
CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
ELECTRICAL DETAILS

SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12691775
SHEET 242 OF 368
EA511

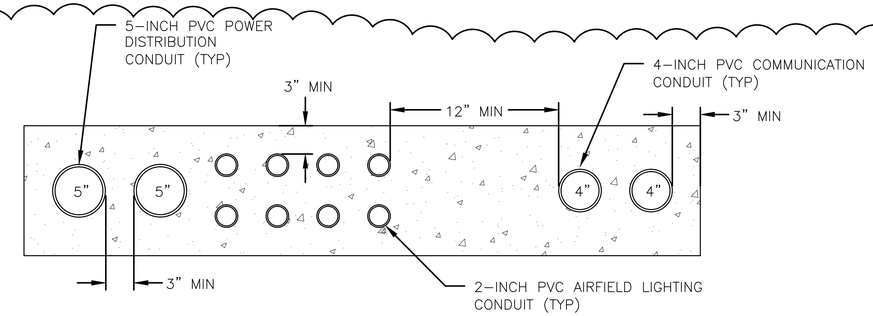
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\SMD\100863_008_Energy_and_Reliability\CADD\ELECTRICAL\10-0863-008-EA511.dwg LAYOUT NAME: EA511 PLOTTED: Tuesday, April 28, 2015 - 9:07pm USER: Rhurst



2W5" & 2W4" CONCRETE ENCASED DUCTBANK (1)

NOT TO SCALE EA512



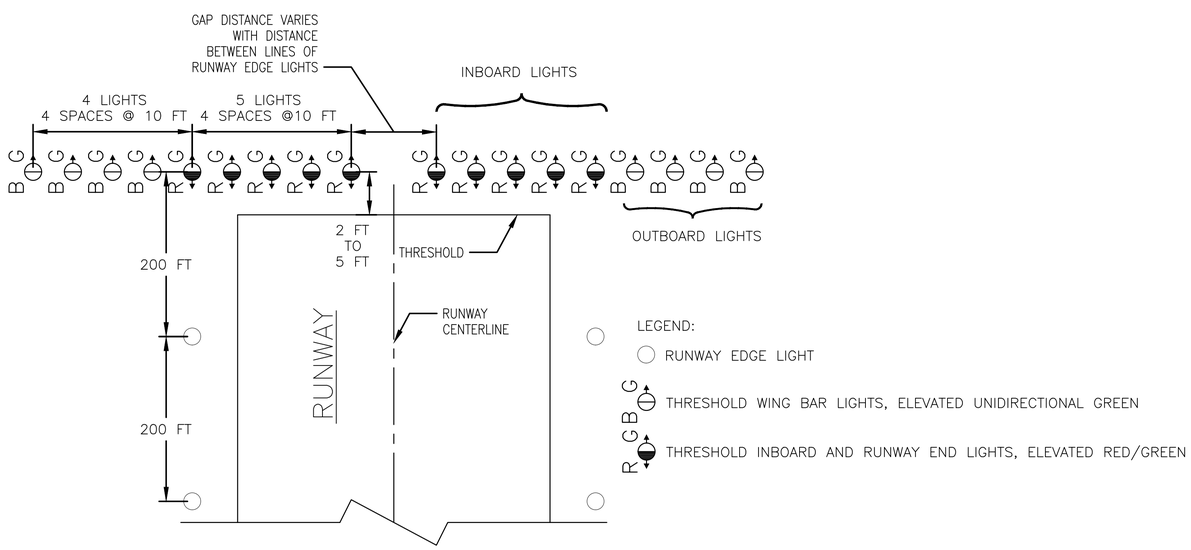
2W5", 2W4" & 8W2" CONDUIT AND CARRIER PIPE DETAIL (2)

NOT TO SCALE EA512

CONCRTE ENCASED DUCTBANK NOTES:

1. REFER TO DETAIL 2, SHEET EA503 FOR MORE INFORMATION ON DUCTBANK CONSTRUCTION REQUIREMENTS INCLUDING DETECTABLE WARNING TAPE AND COUNTERPOISE REQUIREMENTS.
2. TOP OF CONCRETE ENCASEMENT SHALL BE BELOW THE RUNWAY SUB-GRADE MATERIAL, AT NO TIME SHALL DUCTBANKs BE LESS THAN 24" BELOW PAVEMENT SURFACE. REFER TO B-001, BB201, 202 AND 203 FOR BORING INFORMATION.
3. ALL DUCT SHALL SLOPE TOWARDS AN ELECTRICAL STRUCTURE 3 INCHES PER 100 FEET TO PROMOTE DRAINAGE.

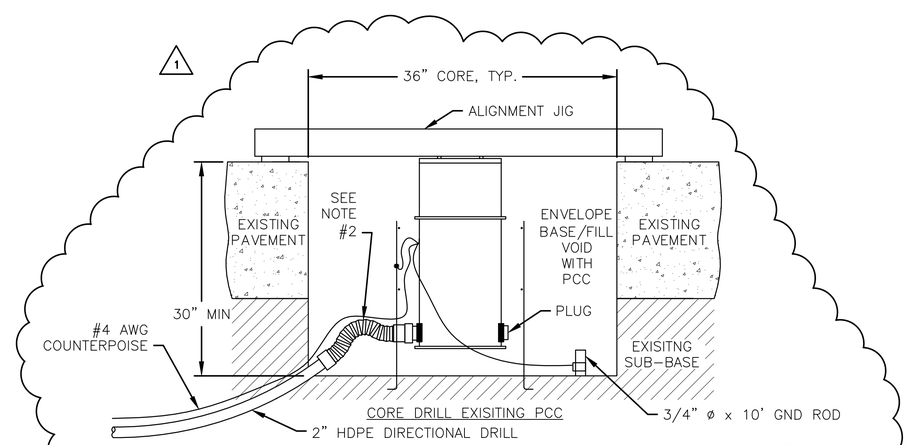
△1



TYPICAL LAYOUT PLAN FOR RUNWAY THRESHOLD LIGHTS (3)

NOT TO SCALE EA512

△1



DEEP BASE INSTALLATION (EXISTING PCC), RIGID PAVEMENT (4)

NOT TO SCALE EA512

NOTES:

1. REFER TO DETAIL SHEETS EA501 AND EA502 FOR MORE INSTALLATION INFORMATION.
2. LIQUID TIGHT NON-METALLIC FLEXIBLE CONDUIT (TYP.) COUPLED TO HDPE.

△1

SYM	DESCRIPTION	DATE	APPR
△1	ADD DET. 4, REPL. 1 AND 2	4/29/15	DJP

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A/E INFO

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SATISFACTORY TO DATE

DES SL DRW SL CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA ~ VIRGINIA BEACH, VIRGINIA
HR IPT
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
ELECTRICAL DETAILS

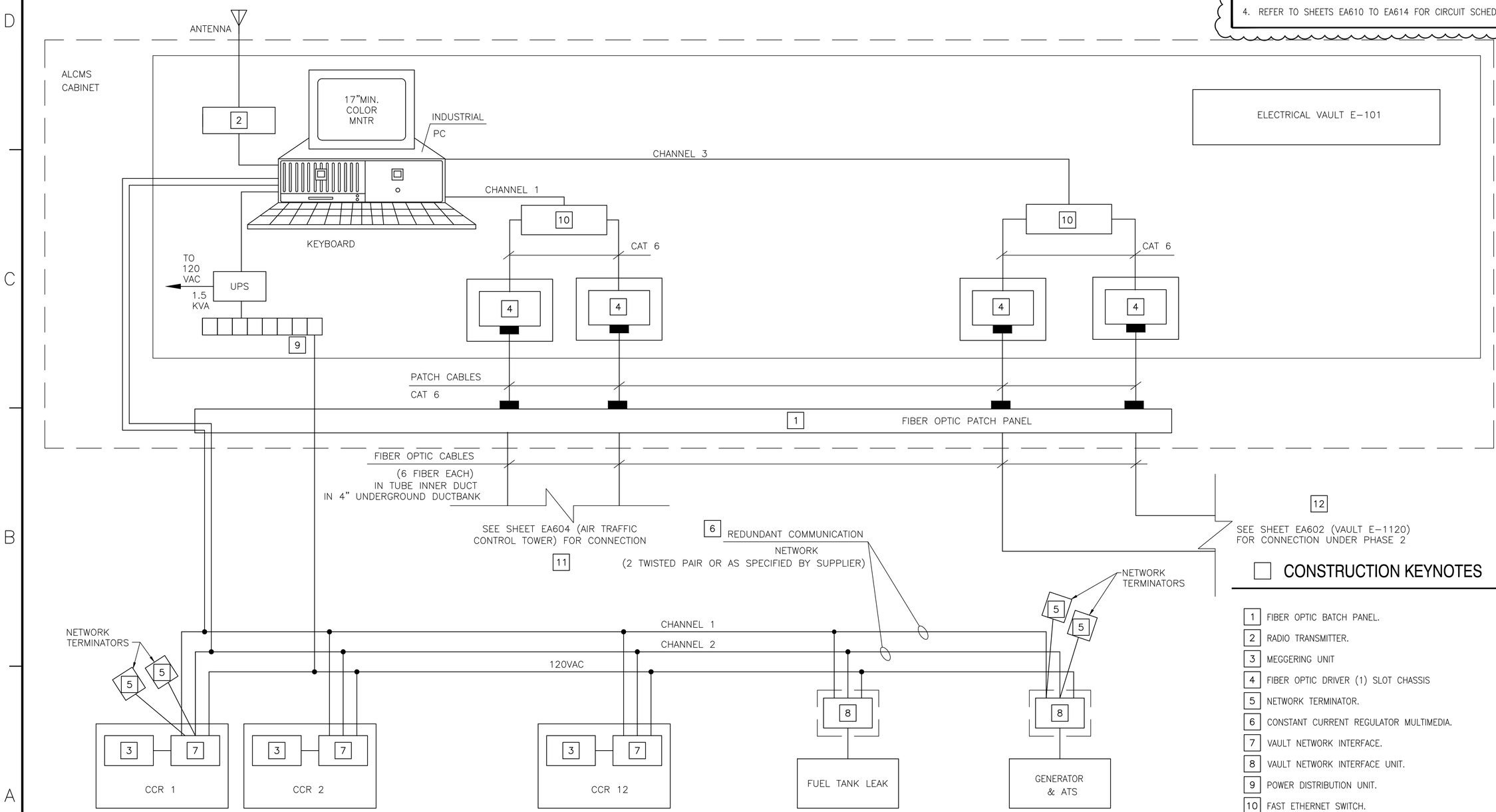
SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691776
SHEET 243 OF 368
EA512
DRAWFORM REVISION: TO MARCH 2009

△1

FILE NAME: G:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA512.dwg LAYOUT NAME: EA512 PLOTTED: Tuesday, April 28, 2015 - 9:07pm USER: Rhurst

GENERAL SHEET NOTES

1. ALL WORK SHOWN ON THIS DRAWING TO BE COMPLETED UNDER PHASE 1, UNLESS OTHERWISE INDICATED.
2. REFER TO SHEET EA138-C FOR VAULT LOCATION.
3. THESE DRAWINGS ARE DIAGRAMMATIC.
4. REFER TO SHEETS EA610 TO EA614 FOR CIRCUIT SCHEDULES.



CONSTRUCTION KEYNOTES

1. FIBER OPTIC BATCH PANEL.
2. RADIO TRANSMITTER.
3. MEGGERING UNIT
4. FIBER OPTIC DRIVER (1) SLOT CHASSIS
5. NETWORK TERMINATOR.
6. CONSTANT CURRENT REGULATOR MULTIMEDIA.
7. VAULT NETWORK INTERFACE.
8. VAULT NETWORK INTERFACE UNIT.
9. POWER DISTRIBUTION UNIT.
10. FAST ETHERNET SWITCH.
11. ROUTE FIBER OPTIC CABLE TO AIR TRAFFIC CONTROL TOWER AND TERMINATE CABLE.
12. ROUTE FIBER OPTIC CABLE TO VAULT E-1120 AND TERMINATE CABLE.

AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM - ELECTRICAL VAULT E-101

SCALE: NTS

SYM	DESCRIPTION	DATE	APPR
1	REVISED NOTES	4/29/15	DJP

NAVFAC

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A/E INFO

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ACTIVITY
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PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
HR #T
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
ELECTRICAL VAULT E-101 ALCMS DIAGRAM

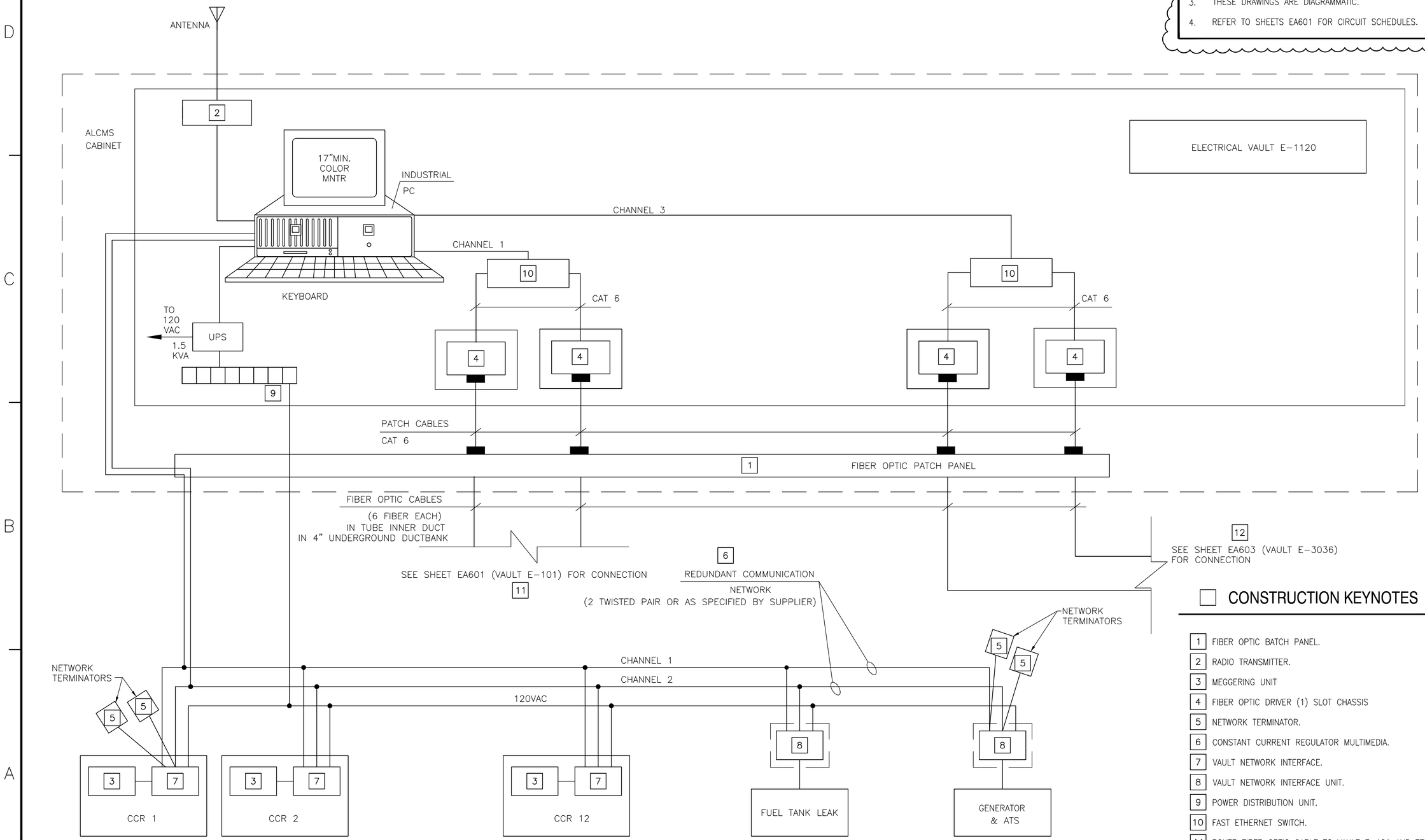
SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691778
SHEET 245 OF 368
EA601

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA601.dwg LAYOUT NAME: EA601 PLOTTED: Wednesday, April 29, 2015 - 10:31am USER: Rhurst

GENERAL SHEET NOTES

1. ALL WORK SHOWN ON THIS DRAWING TO BE COMPLETED UNDER PHASE 2.
2. REFER TO SHEET EA133-B FOR VAULT LOCATION.
3. THESE DRAWINGS ARE DIAGRAMMATIC.
4. REFER TO SHEETS EA601 FOR CIRCUIT SCHEDULES.



CONSTRUCTION KEYNOTES

1. FIBER OPTIC BATCH PANEL.
2. RADIO TRANSMITTER.
3. MEGGERING UNIT
4. FIBER OPTIC DRIVER (1) SLOT CHASSIS
5. NETWORK TERMINATOR.
6. CONSTANT CURRENT REGULATOR MULTIMEDIA.
7. VAULT NETWORK INTERFACE.
8. VAULT NETWORK INTERFACE UNIT.
9. POWER DISTRIBUTION UNIT.
10. FAST ETHERNET SWITCH.
11. ROUTE FIBER OPTIC CABLE TO VAULT E-101 AND TERMINATE CABLE.
12. ROUTE FIBER OPTIC CABLE TO VAULT E-3036 AND TERMINATE CABLE.

AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM - ELECTRICAL VAULT E-1120

SCALE: NTS

SYM	DESCRIPTION	DATE	APPR
1	REVISED NOTES	4/29/15	DJP

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PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
ELECTRICAL VAULT E-1120 ALCMS DIAGRAM

SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691779
SHEET 246 OF 368

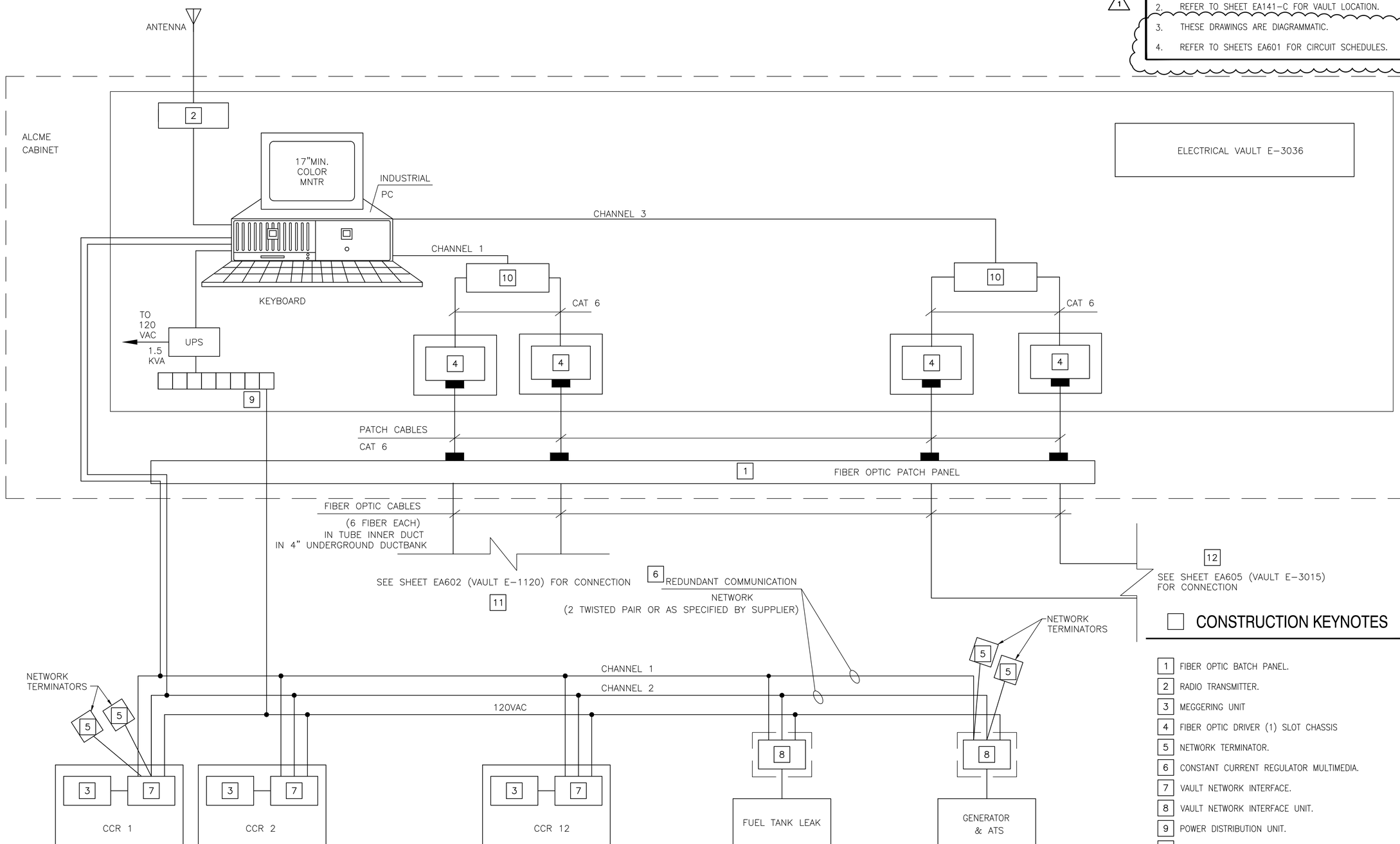
EA602

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA602.dwg LAYOUT NAME: EA602 PLOTTED: Wednesday, April 29, 2015 - 10:31am USER: Rhurst

GENERAL SHEET NOTES

1. ALL WORK SHOWN ON THIS DRAWING TO BE COMPLETED UNDER PHASE 2.
2. REFER TO SHEET EA141-C FOR VAULT LOCATION.
3. THESE DRAWINGS ARE DIAGRAMMATIC.
4. REFER TO SHEETS EA601 FOR CIRCUIT SCHEDULES.



AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM - ELECTRICAL VAULT E-3036

SCALE: NTS

CONSTRUCTION KEYNOTES

1. FIBER OPTIC BATCH PANEL.
2. RADIO TRANSMITTER.
3. MEGGERING UNIT
4. FIBER OPTIC DRIVER (1) SLOT CHASSIS
5. NETWORK TERMINATOR.
6. CONSTANT CURRENT REGULATOR MULTIMEDIA.
7. VAULT NETWORK INTERFACE.
8. VAULT NETWORK INTERFACE UNIT.
9. POWER DISTRIBUTION UNIT.
10. FAST ETHERNET SWITCH.
11. ROUTE FIBER OPTIC CABLE TO VAULT E-1120 AND TERMINATE CABLE.
12. ROUTE FIBER OPTIC CABLE TO VAULT E-3015 AND TERMINATE CABLE.

SYM	DESCRIPTION	DATE	APPR
1	REVISED NOTES	4/29/15	DJP

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PM/DM

BRANCH MANAGER

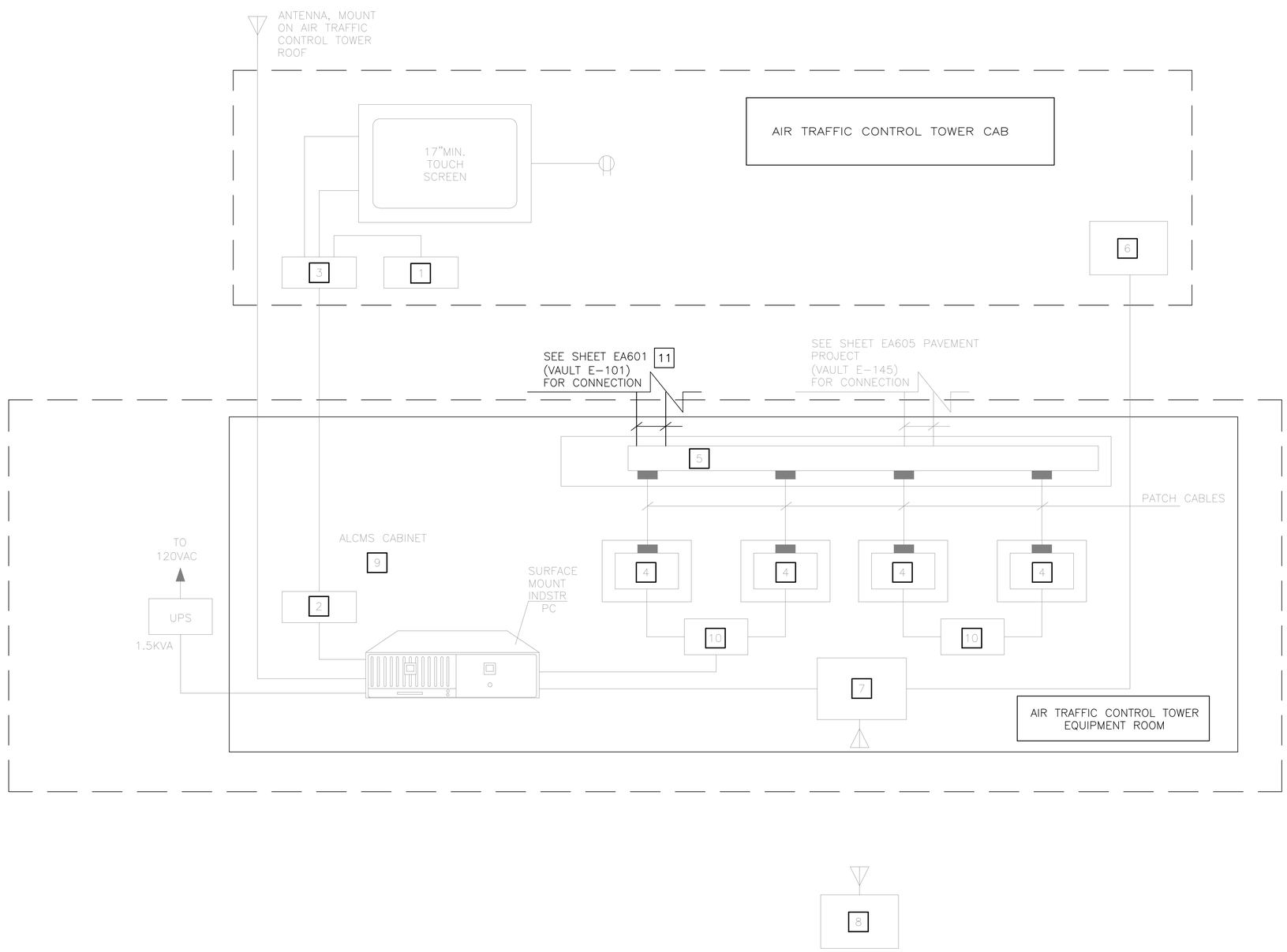
CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
HR IPT
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
ELECTRICAL VAULT E-3036 ALCMS DIAGRAM

SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.: 12691780
SHEET 247 OF 368
EA603

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabi\CADD\ELECTRICAL\10-0863-008-EA603.dwg LAYOUT NAME: EA603 PLOTTED: Wednesday, April 29, 2015 - 10:31am USER: Rhurst



AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM - AIR TRAFFIC CONTROL TOWER

SCALE: NTS

GENERAL SHEET NOTES

1. WORK SHOWN IN BOLD TO BE COMPLETED UNDER PHASE 1.

GENERAL NOTES

1. THE ALCMS SHALL HAVE THE CAPABILITY TO CONTROL THE WAVE OFF LIGHTS FOR RUNWAY 5R-23L, 5R END AND 23L END.
2. THE ALCMS SHALL BE PROVIDED AS A COMPLETE SYSTEM FOR THE AIR TRAFFIC CONTROL TOWER, THE ELECTRICAL VAULTS, AND SHALL INTERFACE THROUGH A WIRELESS CONNECTION TO TWO NOTEBOOK COMPUTERS.
3. THESE DRAWINGS ARE DIAGRAMMATIC.
4. REFER TO SHEETS EA601 FOR CIRCUIT SCHEDULES.

1

CONSTRUCTION KEYNOTES

1. SPEAKER FOR COMPUTER.
2. EXTENDER TRANSMITTER.
3. EXTENDER RECEIVER.
4. FIBER DRIVER WITH (1) SLOT CHASSIS
5. FIBER OPTIC PATCH PANEL.
6. WAVE OFF LIGHT CONTROL STATIONS.
7. ALCMS I/O RACK.
8. AIRPORT BEACON ON WATER TOWER.
9. ALCMS CABINET IN CLOSET BELOW CAB.
10. FAST ETHERNET SWITCH.
11. ROUTE FIBER OPTIC CABLE TO VAULT E-101 AND TERMINATE CABLE.

SYM	DESCRIPTION	DATE	APPR
1	REVISED NOTES	4/29/15	DJP

NAVFAC

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DES RCH DRW RCH CHK DJP
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NAVAL AIR STATION OCEANA - VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
AIR TRAFFIC CONTROL TOWER ALCMS DIAGRAM

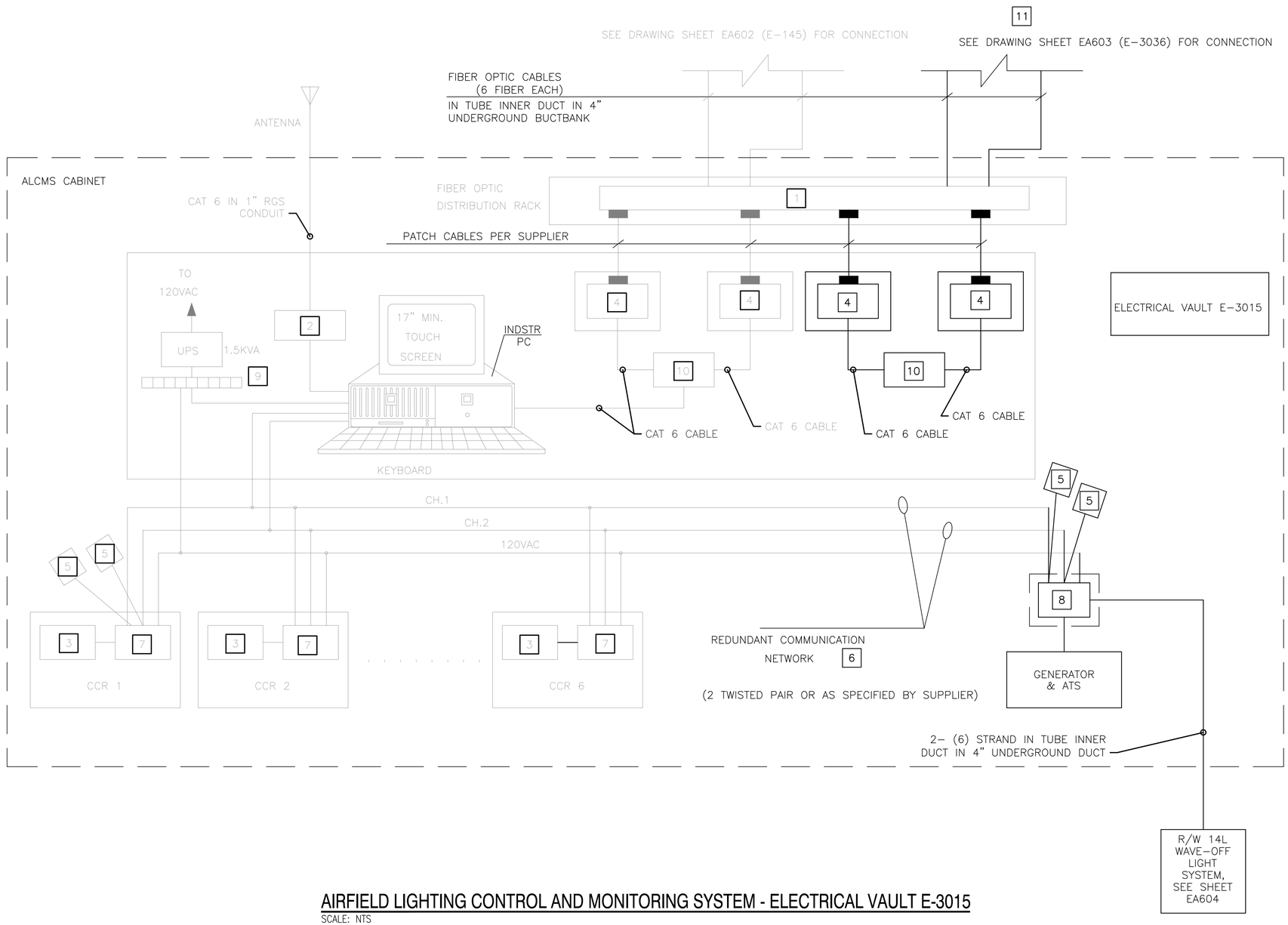
SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12691781
SHEET 248 OF 368
EA604

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA604.dwg LAYOUT NAME: EA604 PLOTTED: Wednesday, April 29, 2015 - 10:31am USER: Rhurst

GENERAL SHEET NOTES

1. ALL WORK SHOWN ON THIS DRAWING IN BOLD TO BE COMPLETED UNDER PHASE 2.
2. ROUTE FIBER OPTIC CABLE TO VAULT E-3036 AND TERMINATE.
3. THESE DRAWINGS ARE DIAGRAMMATIC.
4. REFER TO SHEETS EA601 FOR CIRCUIT SCHEDULES.



AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM - ELECTRICAL VAULT E-3015

SCALE: NTS

CONSTRUCTION KEYNOTES

1. FIBER OPTIC BATCH PANEL.
2. RADIO TRANSMITTER.
3. MEGGERING UNIT
4. FIBER OPTIC DRIVER (1) SLOT CHASSIS
5. NETWORK TERMINATOR.
6. CONSTANT CURRENT REGULATOR MULTIMEDIA.
7. VAULT NETWORK INTERFACE.
8. VAULT NETWORK INTERFACE UNIT.
9. POWER DISTRIBUTION UNIT.
10. FAST ETHERNET SWITCH.
11. ROUTE FIBER OPTIC CABLE TO VAULT E-3036 AND TERMINATE CABLE.

SYM	DESCRIPTION	DATE	APPR
1	REVISED NOTES	4/29/15	DJP

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WEB: WWW.JMT.COM

A/E INFO

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FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RCH DRW RCH CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NAVAL AIR STATION OCEANA - VIRGINIA BEACH, VIRGINIA
HR IPT
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
ELECTRICAL VAULT E-3015 ALCMS DIAGRAM

SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691782
SHEET 249 OF 368
EA605

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-EA605.dwg LAYOUT NAME: EA605 PLOTTED: Wednesday, April 29, 2015 - 10:31am USER: Rhurst

CIRCUIT G2 - R/W 14R-32L RGL LIGHT CIRCUIT - VAULT E-145 - PHASE 1

CIR. NO.	ID NO.	DESCRIPTION	LOCATION EASTING	LOCATION NORTHING	LENS COLOR	DETAIL SHEET REFERENCE	DETAIL REFERENCE
G2	051	L-804 ELEVATED RGL	12203054.95	3472087.19	YELLOW	EA508	1
G2	052	L-852G INPAVEMENT RGL	12203065.85	3472074.05	YELLOW	EA501/502	3/3,4
G2	053	L-852G INPAVEMENT RGL	12203073.24	3472067.32	YELLOW	EA501/502	3/3,4
G2	054	L-852G INPAVEMENT RGL	12203080.64	3472060.59	YELLOW	EA501/502	3/3,4
G2	055	L-852G INPAVEMENT RGL	12203088.03	3472053.86	YELLOW	EA501/502	3/3,4
G2	056	L-852G INPAVEMENT RGL	12203095.43	3472047.12	YELLOW	EA501/502	3/3,4
G2	057	L-852G INPAVEMENT RGL	12203102.82	3472040.39	YELLOW	EA501/502	3/3,4
G2	058	L-852G INPAVEMENT RGL	12203110.22	3472033.66	YELLOW	EA501/502	3/3,4
G2	059	L-852G INPAVEMENT RGL	12203117.61	3472026.93	YELLOW	EA501/502	3/3,4
G2	060	L-852G INPAVEMENT RGL	12203125.01	3472020.2	YELLOW	EA501/502	3/3,4
G2	061	L-852G INPAVEMENT RGL	12203132.4	3472013.47	YELLOW	EA501/502	3/3,4
G2	062	L-852G INPAVEMENT RGL	12203139.8	3472006.74	YELLOW	EA501/502	3/3,4
G2	063	L-852G INPAVEMENT RGL	12203147.19	3472000.01	YELLOW	EA501/502	3/3,4
G2	064	L-852G INPAVEMENT RGL	12203154.59	3471993.27	YELLOW	EA501/502	3/3,4
G2	065	L-852G INPAVEMENT RGL	12203161.98	3471986.54	YELLOW	EA501/502	3/3,4
G2	066	L-852G INPAVEMENT RGL	12203169.38	3471979.81	YELLOW	EA501/502	3/3,4
G2	067	L-852G INPAVEMENT RGL	12203176.77	3471973.08	YELLOW	EA501/502	3/3,4
G2	068	L-852G INPAVEMENT RGL	12203184.17	3471966.35	YELLOW	EA501/502	3/3,4
G2	069	L-852G INPAVEMENT RGL	12203191.56	3471959.62	YELLOW	EA501/502	3/3,4
G2	070	L-852G INPAVEMENT RGL	12203198.96	3471952.89	YELLOW	EA501/502	3/3,4
G2	071	L-852G INPAVEMENT RGL	12203206.35	3471946.15	YELLOW	EA501/502	3/3,4
G2	072	L-852G INPAVEMENT RGL	12203213.75	3471939.42	YELLOW	EA501/502	3/3,4
G2	073	L-852G INPAVEMENT RGL	12203221.15	3471932.69	YELLOW	EA501/502	3/3,4
G2	074	L-852G INPAVEMENT RGL	12203228.54	3471925.96	YELLOW	EA501/502	3/3,4
G2	075	L-852G INPAVEMENT RGL	12203235.94	3471919.23	YELLOW	EA501/502	3/3,4
G2	076	L-852G INPAVEMENT RGL	12203243.33	3471912.5	YELLOW	EA501/502	3/3,4
G2	077	L-852G INPAVEMENT RGL	12203250.73	3471905.77	YELLOW	EA501/502	3/3,4
G2	078	L-852G INPAVEMENT RGL	12203258.12	3471899.04	YELLOW	EA501/502	3/3,4
G2	079	L-852G INPAVEMENT RGL	12203265.52	3471892.3	YELLOW	EA501/502	3/3,4
G2	080	L-852G INPAVEMENT RGL	12203272.91	3471885.57	YELLOW	EA501/502	3/3,4
G2	081	L-804 ELEVATED RGL	12203289.98	3471872.19	YELLOW	EA508	1
G2	082	L-804 ELEVATED RGL	12206543.82	3468808.86	YELLOW	EA508	1
G2	083	L-852G INPAVEMENT RGL	12206553.42	3468798.05	YELLOW	EA501/502	3/3,4
G2	084	L-852G INPAVEMENT RGL	12206561.01	3468791.55	YELLOW	EA501/502	3/3,4
G2	085	L-852G INPAVEMENT RGL	12206568.61	3468785.04	YELLOW	EA501/502	3/3,4
G2	086	L-852G INPAVEMENT RGL	12206576.21	3468778.54	YELLOW	EA501/502	3/3,4
G2	087	L-852G INPAVEMENT RGL	12206583.8	3468772.04	YELLOW	EA501/502	3/3,4
G2	088	L-852G INPAVEMENT RGL	12206591.4	3468765.53	YELLOW	EA501/502	3/3,4
G2	089	L-852G INPAVEMENT RGL	12206599	3468759.03	YELLOW	EA501/502	3/3,4
G2	090	L-804 ELEVATED RGL	12206614.64	3468748.22	YELLOW	EA508	1
G2	091	L-804 ELEVATED RGL	12208821.89	3466836.03	YELLOW	EA508	1
G2	092	L-852G INPAVEMENT RGL	12208841.15	3466816.37	YELLOW	EA501/502	3/3,4
G2	092	L-852G INPAVEMENT RGL	12208833.75	3466823.1	YELLOW	EA501/502	3/3,4
G2	093	L-852G INPAVEMENT RGL	12208848.53	3466809.63	YELLOW	EA501/502	3/3,4
G2	094	L-852G INPAVEMENT RGL	12208855.93	3466802.9	YELLOW	EA501/502	3/3,4
G2	095	L-852G INPAVEMENT RGL	12208863.33	3466796.17	YELLOW	EA501/502	3/3,4
G2	096	L-852G INPAVEMENT RGL	12208870.72	3466789.45	YELLOW	EA501/502	3/3,4
G2	097	L-852G INPAVEMENT RGL	12208878.11	3466782.7	YELLOW	EA501/502	3/3,4
G2	098	L-852G INPAVEMENT RGL	12208885.51	3466775.98	YELLOW	EA501/502	3/3,4
G2	099	L-852G INPAVEMENT RGL	12208892.9	3466769.25	YELLOW	EA501/502	3/3,4
G2	100	L-852G INPAVEMENT RGL	12208900.29	3466762.51	YELLOW	EA501/502	3/3,4
G2	101	L-852G INPAVEMENT RGL	12208907.68	3466755.76	YELLOW	EA501/502	3/3,4
G2	102	L-852G INPAVEMENT RGL	12208915.08	3466749.04	YELLOW	EA501/502	3/3,4
G2	103	L-852G INPAVEMENT RGL	12208922.47	3466742.31	YELLOW	EA501/502	3/3,4
G2	104	L-852G INPAVEMENT RGL	12208929.87	3466735.58	YELLOW	EA501/502	3/3,4
G2	105	L-852G INPAVEMENT RGL	12208937.26	3466728.84	YELLOW	EA501/502	3/3,4
G2	106	L-852G INPAVEMENT RGL	12208944.65	3466722.11	YELLOW	EA501/502	3/3,4
G2	107	L-852G INPAVEMENT RGL	12208952.05	3466715.38	YELLOW	EA501/502	3/3,4
G2	108	L-852G INPAVEMENT RGL	12208959.45	3466708.65	YELLOW	EA501/502	3/3,4
G2	109	L-852G INPAVEMENT RGL	12208966.83	3466701.91	YELLOW	EA501/502	3/3,4
G2	110	L-852G INPAVEMENT RGL	12208974.23	3466695.18	YELLOW	EA501/502	3/3,4
G2	111	L-804 ELEVATED RGL	12208983.23	3466689.1	YELLOW	EA508	1
G2	112	L-804 ELEVATED RGL	12206972.85	3469165.21	YELLOW	EA508	1
G2	113	L-852G INPAVEMENT RGL	12206962.25	3469176.23	YELLOW	EA501/502	3/3,4
G2	114	L-852G INPAVEMENT RGL	12206954.67	3469182.75	YELLOW	EA501/502	3/3,4
G2	115	L-852G INPAVEMENT RGL	12206947.08	3469189.27	YELLOW	EA501/502	3/3,4
G2	116	L-852G INPAVEMENT RGL	12206939.49	3469195.78	YELLOW	EA501/502	3/3,4
G2	117	L-852G INPAVEMENT RGL	12206931.91	3469202.3	YELLOW	EA501/502	3/3,4
G2	118	L-852G INPAVEMENT RGL	12206924.32	3469208.81	YELLOW	EA501/502	3/3,4
G2	119	L-852G INPAVEMENT RGL	12206916.74	3469215.33	YELLOW	EA501/502	3/3,4
G2	120	L-804 ELEVATED RGL	12206901.1	3469225.41	YELLOW	EA508	1

CIRCUIT G4 - R/W 5L-23R RGL LIGHT CIRCUIT - VAULT E-1120 - PHASE 1 (TEMP. E-101 TILL PHASE 2)

CIR. NO.	ID NO.	DESCRIPTION	LOCATION EASTING	LOCATION NORTHING	LENS COLOR	DETAIL SHEET REFERENCE	DETAIL REFERENCE
G4	001	L-804 ELEVATED RGL	12205326.81	3469550	YELLOW	EA508	1
G4	002	L-852G INPAVEMENT RGL	12205335.13	3469561.93	YELLOW	EA501/502	3/3,4
G4	003	L-852G INPAVEMENT RGL	12205341.86	3469569.32	YELLOW	EA501/502	3/3,4
G4	004	L-852G INPAVEMENT RGL	12205348.59	3469576.71	YELLOW	EA501/502	3/3,4
G4	005	L-852G INPAVEMENT RGL	12205355.33	3469584.1	YELLOW	EA501/502	3/3,4
G4	006	L-852G INPAVEMENT RGL	12205362.06	3469591.5	YELLOW	EA501/502	3/3,4
G4	007	L-852G INPAVEMENT RGL	12205368.8	3469598.89	YELLOW	EA501/502	3/3,4
G4	008	L-852G INPAVEMENT RGL	12205375.53	3469606.28	YELLOW	EA501/502	3/3,4
G4	009	L-804 ELEVATED RGL	12205389.51	3469618.44	YELLOW	EA508	1
G4	010	L-804 ELEVATED RGL	12207572.15	3471509.51	YELLOW	EA508	1
G4	011	L-852G INPAVEMENT RGL	12207565.67	3471499.63	YELLOW	EA501/502	3/3,4
G4	012	L-852G INPAVEMENT RGL	12207559.14	3471492.06	YELLOW	EA501/502	3/3,4
G4	013	L-852G INPAVEMENT RGL	12207552.61	3471484.49	YELLOW	EA501/502	3/3,4
G4	014	L-852G INPAVEMENT RGL	12207546.07	3471476.92	YELLOW	EA501/502	3/3,4
G4	015	L-852G INPAVEMENT RGL	12207539.54	3471469.35	YELLOW	EA501/502	3/3,4
G4	016	L-852G INPAVEMENT RGL	12207533.01	3471461.78	YELLOW	EA501/502	3/3,4
G4	017	L-852G INPAVEMENT RGL	12207526.47	3471454.21	YELLOW	EA501/502	3/3,4
G4	018	L-852G INPAVEMENT RGL	12207519.94	3471446.64	YELLOW	EA501/502	3/3,4
G4	019	L-852G INPAVEMENT RGL	12207513.41	3471439.07	YELLOW	EA501/502	3/3,4
G4	020	L-852G INPAVEMENT RGL	12207506.87	3471431.5	YELLOW	EA501/502	3/3,4
G4	021	L-852G INPAVEMENT RGL	12207500.34	3471423.93	YELLOW	EA501/502	3/3,4
G4	022	L-852G INPAVEMENT RGL	12207493.81	3471416.36	YELLOW	EA501/502	3/3,4
G4	023	L-852G INPAVEMENT RGL	12207487.27	3471408.79	YELLOW	EA501/502	3/3,4
G4	024	L-852G INPAVEMENT RGL	12207480.74	3471401.21	YELLOW	EA501/502	3/3,4
G4	025	L-852G INPAVEMENT RGL	12207474.21	3471393.64	YELLOW	EA501/502	3/3,4
G4	026	L-852G INPAVEMENT RGL	12207467.67	3471386.07	YELLOW	EA501/502	3/3,4
G4	027	L-852G INPAVEMENT RGL	12207461.14	3471378.5	YELLOW	EA501/502	3/3,4
G4	028	L-852G INPAVEMENT RGL	12207454.61	3471370.93	YELLOW	EA501/502	3/3,4
G4	029	L-852G INPAVEMENT RGL	12207448.07	3471363.36	YELLOW	EA501/502	3/3,4
G4	030	L-852G INPAVEMENT RGL	12207441.54	3471355.79	YELLOW	EA501/502	3/3,4
G4	031	L-852G INPAVEMENT RGL	12207435.01	3471348.22	YELLOW	EA501/502	3/3,4
G4	032	L-852G INPAVEMENT RGL	12207428.47	3471340.65	YELLOW	EA501/502	3/3,4
G4	033	L-852G INPAVEMENT RGL	12207421.94	3471333.08	YELLOW	EA501/502	3/3,4
G4	034	L-852G INPAVEMENT RGL	12207415.41	3471325.51	YELLOW	EA501/502	3/3,4
G4	035	L-852G INPAVEMENT RGL	12207408.87	3471317.94	YELLOW	EA501/502	3/3,4
G4	036	L-852G INPAVEMENT RGL	12207402.34	3471310.37	YELLOW	EA501/502	3/3,4
G4	037	L-852G INPAVEMENT RGL	12207395.81	3471302.8	YELLOW	EA501/502	3/3,4
G4	038	L-852G INPAVEMENT RGL	12207389.27	3471295.23	YELLOW	EA501/502	3/3,4
G4	039	L-852G INPAVEMENT RGL	12207382.74	3471287.66	YELLOW	EA501/502	3/3,4
G4	040	L-852G INPAVEMENT RGL	12207376.21	3471280.09	YELLOW	EA501/502	3/3,4
G4	041	L-852G INPAVEMENT RGL	12207369.67	3471272.52	YELLOW	EA501/502	3/3,4
G4	042	L-804 ELEVATED RGL	12207355.79	3471259.44	YELLOW	EA508	1
G4	043	L-804 ELEVATED RGL	12205761.63	3469280.3	YELLOW	EA508	1
G4	044	L-852G INPAVEMENT RGL	12205750.77	3469264.67	YELLOW	EA501/502	3/3,4
G4	045	L-852G INPAVEMENT RGL	12205744.04	3469257.27	YELLOW	EA501/502	3/3,4
G4	046	L-852G INPAVEMENT RGL	12205737.31	3469249.88	YELLOW	EA501/502	3/3,4
G4	047	L-852G INPAVEMENT RGL	12205730.58	3469242.48	YELLOW	EA501/502	3/3,4
G4	048	L-852G INPAVEMENT RGL	12205723.85	3469235.09	YELLOW	EA501/502	3/3,4
G4	049	L-852G INPAVEMENT RGL	12205717.11	3469227.69	YELLOW	EA501/502	3/3,4
G4	050	L-852G INPAVEMENT RGL	12205710.38	3469220.3	YELLOW	EA501/502	3/3,4
G4	051	L-804 ELEVATED RGL	12205699.24	3469211.07	YELLOW	EA508	1
G4	052	L-804 ELEVATED RGL	12204204.07	3467466	YELLOW	EA508	1
G4	053	L-852G INPAVEMENT RGL	12204190.9	3467448.47	YELLOW	EA501/502	3/3,4
G4	054	L-852G INPAVEMENT RGL	12204184.39	3467440.88	YELLOW	EA501/502	3/3,4
G4	055	L-852G INPAVEMENT RGL	12204177.89	3467433.29	YELLOW	EA501/502	3/3,4
G4	056	L-852G INPAVEMENT RGL	12204171.38	3467425.7	YELLOW	EA501/502	3/3,4
G4	057	L-852G INPAVEMENT RGL	12204164.87	3467418.11	YELLOW	EA501/502	3/3,4
G4	058	L-852G INPAVEMENT RGL	12204158.36	3467410.52	YELLOW	EA501/502	3/3,4
G4	059	L-852G INPAVEMENT RGL	12204151.85	3467402.92	YELLOW	EA501/502	3/3,4
G4	060	L-852G INPAVEMENT RGL	12204145.34	3467395.33	YELLOW	EA501/502	3/3,4
G4	061	L-852G INPAVEMENT RGL	12204138.83	3467387.74	YELLOW	EA501/502	3/3,4
G4	062	L-852G INPAVEMENT RGL	12204132.32	3467380.15	YELLOW	EA501/502	3/3,4
G4	063	L-852G INPAVEMENT RGL	12204125.81	3467372.56	YELLOW	EA501/502	3/3,4
G4	064	L-852G INPAVEMENT RGL	12204119.3	3467364.97	YELLOW	EA501/502	3/3,4
G4	065	L-852G INPAVEMENT RGL	12204112.8	3467357.37	YELLOW	EA501/502	3/3,4
G4	066	L-852G INPAVEMENT RGL	12204106.29	3467349.78	YELLOW	EA501/502	3/3,4
G4	067	L-852G INPAVEMENT RGL	12204099.78	3467342.19	YELLOW	EA501/502	3/3,4
G4	068	L-852G INPAVEMENT RGL	12204093.27	3467334.6	YELLOW	EA501/502	3/3,4
G4	069	L-852G INPAVEMENT RGL	12204086.76	3467327.01	YELLOW	EA501/502	3/3,4
G4	070	L-852G INPAVEMENT RGL	12204080.25	3467319.42	YELLOW	EA501/502	3/3,4
G4	071	L-852G INPAVEMENT RGL	12204073.74	3467311.82	YELLOW	EA501/502	3/3,4
G4	072	L-852G INPAVEMENT RGL	12204067.23	3467304.23	YELLOW	EA501/502	3/3,4
G4	073	L-852G INPAVEMENT RGL	12204060.72	3467296.64	YELLOW	EA501/502	3/3,4
G4	074	L-804 ELEVATED RGL	12204051.27	3467287.61	YELLOW	EA508	1
G4	075	L-804 ELEVATED RGL	12202461.94	3465551.77	YELLOW	EA508	1
G4	076	L-852G INPAVEMENT RGL	12202454.08	3465538.22	YELLOW	EA501/502	3/3,4
G4	077	L-852G INPAVEMENT RGL	12202447.56	3465530.63	YELLOW	EA501/502	3/3,4
G4	078	L-852G INPAVEMENT RGL	12202441.04	3465523.05	YELLOW	EA501/502	3/3,4
G4	079	L-852G INPAVEMENT RGL	12202434.52	3465515.47	YELLOW	EA501/502	3/3,4
G4	080	L-852G INPAVEMENT RGL	12202427.99	3465507.89	YELLOW	EA501/502	3/3,4
G4	081	L-852G INPAVEMENT RGL	12202421.47	3465500.31	YELLOW	EA501/502	3/3,4
G4	082	L-852G INPAVEMENT RGL	12202414.95	3465492.73	YELLOW	EA501/502	3/3,4
G4	083	L-852G INPAVEMENT RGL	12202408.43	3465485.14	YELLOW	EA501/502	3/3,4
G4	084	L-852G INPAVEMENT RGL	12202401.91	3465477.56	YELLOW	EA501/502	3/3,4
G4	085	L-852G INPAVEMENT RGL	12202395.39	3465469.98	YELLOW	EA501/502	3/3,4
G4	086	L-852G INPAVEMENT RGL	12202388.87	3465462.4	YELLOW	EA501/502	3/3,4
G4	087	L-852G INPAVEMENT RGL	12202382.35	3465454.82	YELLOW	EA501/502	3/3,4
G4	088	L-852G INPAVEMENT RGL	12202375.83	3465447.24	YELLOW	EA501/502	3/3,4
G4	089	L-852G INPAVEMENT RGL	12202369.31	3465439.65	YELLOW	EA501/502	3/3,4
G4	090	L-852G INPAVEMENT RGL	12202362.79	3465432.07	YELLOW	EA501/502	3/3,4
G4	091	L-804 ELEVATED RGL	12202351.98	3465423.94	YELLOW	EA508	1

NOTE:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND CONFIRM ALL LIGHT LOCATION WITH RESPECT TO PAVEMENT, MARKINGS AND OTHER OBSTACLES. ANY CONFLICTS OR LIGHTS OUTSIDE OF STANDARD SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER PRIOR TO INSTALLATION.

SYM	DESCRIPTION	DATE	APPR
1	REV. DETIAL AND SHEET NO.	4/29/15	DJP

NAVFAC

SEAL

JOHNSON, MIRMIRAN THOMPSON
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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES RCH DRW RCH CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HR IPT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
AIRFIELD LIGHTING SCHEDULES

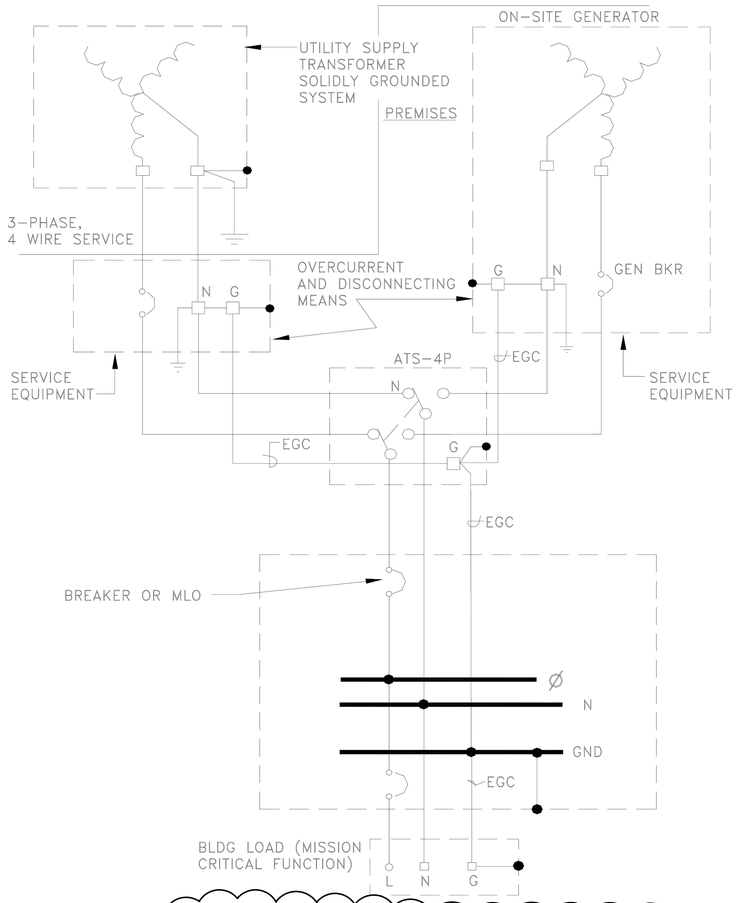
SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691793
SHEET 260 OF 368
EA616

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_ov4_Reliabil\CADD\ELECTRICAL\10-0863-008-EA616.dwg LAYOUT NAME: EA616 PLOTTED: Tuesday, April 28, 2015 - 9:08pm USER: Rhurst

GENERAL SHEET NOTES

1. THE WORK SHOWN ON THIS DRAWING IS COMMON TO BOTH PHASE 1 AND PHASE 2.



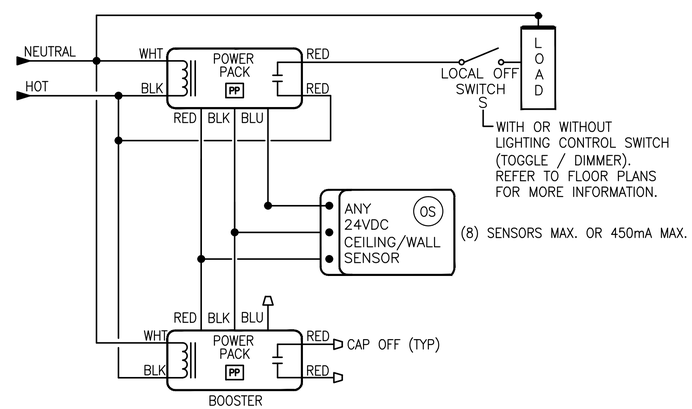
NOTES:

1. TYPICAL GROUNDING DIAGRAM FOR VAULTS E-3036, E-101, AND E-1120. REFER TO ONE LINE DIAGRAMS ON DRAWINGS E-601, E-602, AND E-603 FOR CONDUIT AND WIRE SIZES.
2. ALL SERVICE GROUNDING WIRES SHALL BE #4/0 AWG UNLESS OTHERWISE NOTED. REFER TO DRAWINGS E-401, E-404, AND E-407 FOR ADDITIONAL INFORMATION.

1

TYPICAL GROUNDING DIAGRAM 1

NTS E-502



TYPICAL LIGHTING CONTROL DIAGRAM 2

NTS E-402,E-405,E-408

SYM	DESCRIPTION	DATE	APPR
1	REVISED GROUNDING DETAIL	4/29/15	MG

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES SJM DRW SJM CHK MG

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
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NAVAL AIR STATION OCEANA VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
ELECTRICAL DETAILS

SCALE: NTS

EPROJECT NO.: 1291651

CONSTR. CONTR. NO.

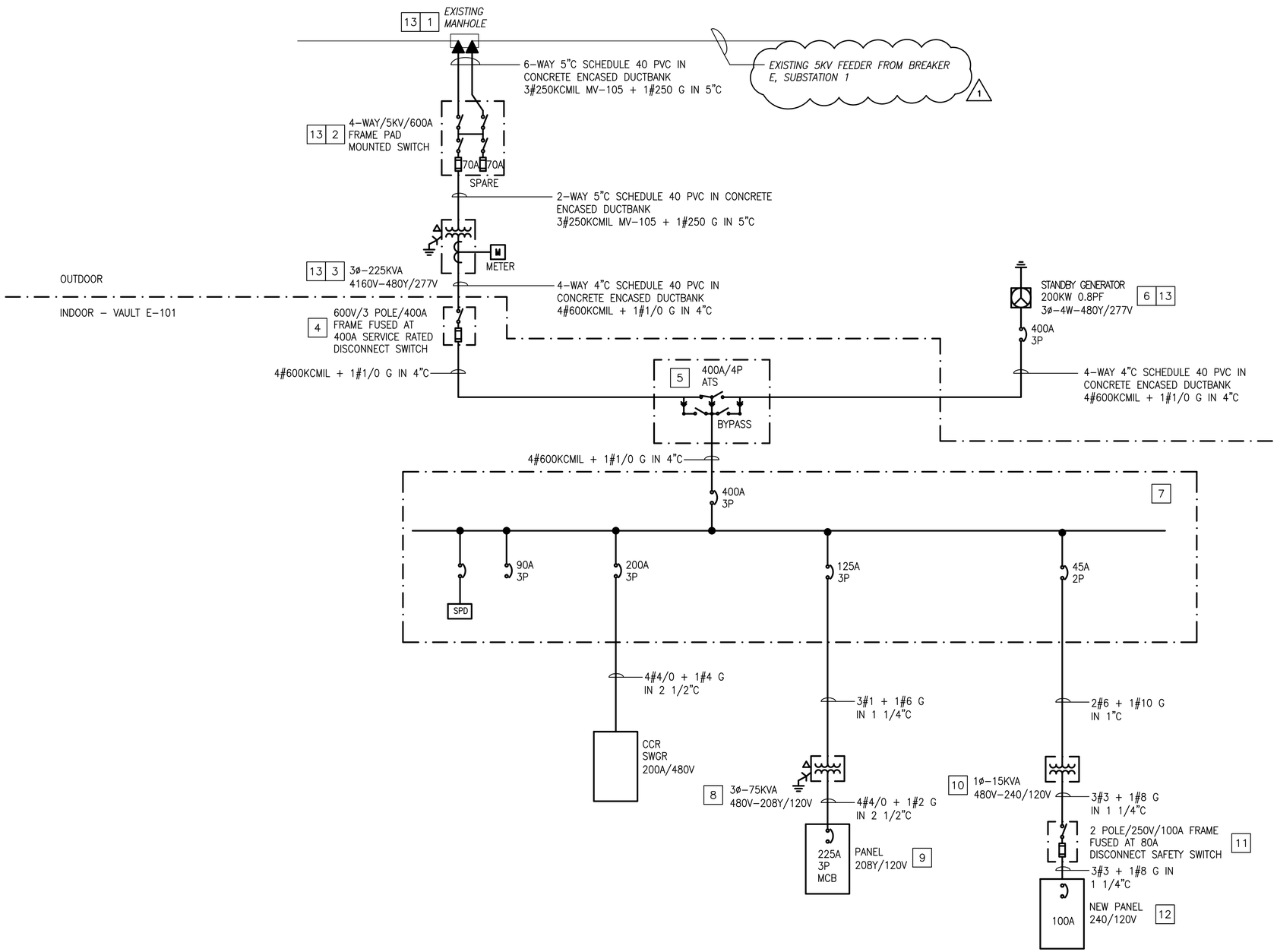
NAVFAC DRAWING NO. 12691885

SHEET 352 OF 368

E-502

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: H:\56427 NAS Oceana\Electrical\Planset\Task 008\10-0863-008-E-502.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, April 23, 2015 - 7:41am USER: jrothe



VAULT E-101 ONE LINE DIAGRAM

NTS

GENERAL SHEET NOTES

1. REFER TO DRAWINGS E-001 THRU E-005 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES.
2. REFER TO DRAWINGS E-404, E-405, AND E-406 FOR ADDITIONAL INFORMATION.
3. REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. REPAIR AND PATCH ANY DISTURBED AREAS TO MATCH EXISTING CONDITIONS.
5. UNLESS OTHERWISE NOTED, ELECTRICAL WORK AND MATERIALS ARE NEW AND MUST BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
6. THE WORK SHOWN ON THIS DRAWING TO BE COMPLETED UNDER PHASE 1.

CONSTRUCTION KEYNOTES

1. EXISTING MANHOLE CONNECT NEW FEEDER FOR VAULT E-101 IN A LOOP CONFIGURATION TO EXISTING FEEDER FROM BREAKER A, SUBSTATION 1. REFER TO DRAWING EA143-C FOR MORE INFORMATION.
2. 4-WAY, 600A, 5KV PAD MOUNTED SWITCH ON CONCRETE PAD.
3. 225KVA, 4160V-480Y/277V, PAD MOUNTED OIL-FILED TRANSFORMER WITH KWH REVENUE METER.
4. 400A, 3 POLE, 480Y/277V, 35KAIC SERVICE ENTRANCE RATED DISCONNECT SAFETY SWITCH, FUSED AT 400A.
5. 400A, 4 POLE, 480Y/277V, 35KAIC DELAYED OPEN TRANSITION, AUTOMATIC TRANSFER SWITCH WITH ISOLATION BYPASS.
6. 200KW, 250KVA, 3 PHASE, 4 WIRE, 480Y/277V, DIESEL STANDBY GENERATOR, IN WEATHERPROOF ENCLOSURE, WITH 325 GALLONS SUB-BASE FUEL TANK.
7. 400A, 480Y/277V, 35KAIC MAIN DISTRIBUTION PANEL WITH 400A MAIN CIRCUIT BREAKER.
8. 75KVA, 480V-208Y/120V, WALL MOUNTED DRY TYPE TRANSFORMER.
9. 250A, 208Y/120V PANEL WITH 225A MAIN CIRCUIT BREAKER.
10. NEW 15KVA, 480V-240/120V, SINGLE PHASE WALL MOUNTED DRY TYPE TRANSFORMER.
11. 100A, 2 POLE, 250V, 10KAIC, DISCONNECT SAFETY SWITCH FUSED AT 80A.
12. NEW ALSF PANEL.
13. REFER TO DRAWING E-404 FOR EQUIPMENT LOCATION AND FEEDER ROUTING.

SYM	DESCRIPTION	DATE	APPR
1	REVISED CIRCUIT DESIGNATION	4/29/15	MG

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES SJM DRW SJM CHK MG

FM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA ~ VIRGINIA BEACH, VIRGINIA
HR IPT
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
VAULT E-101 - ONE LINE DIAGRAM

SCALE: NTS

EPROJECT NO.: 1291651

CONSTR. CONTR. NO.

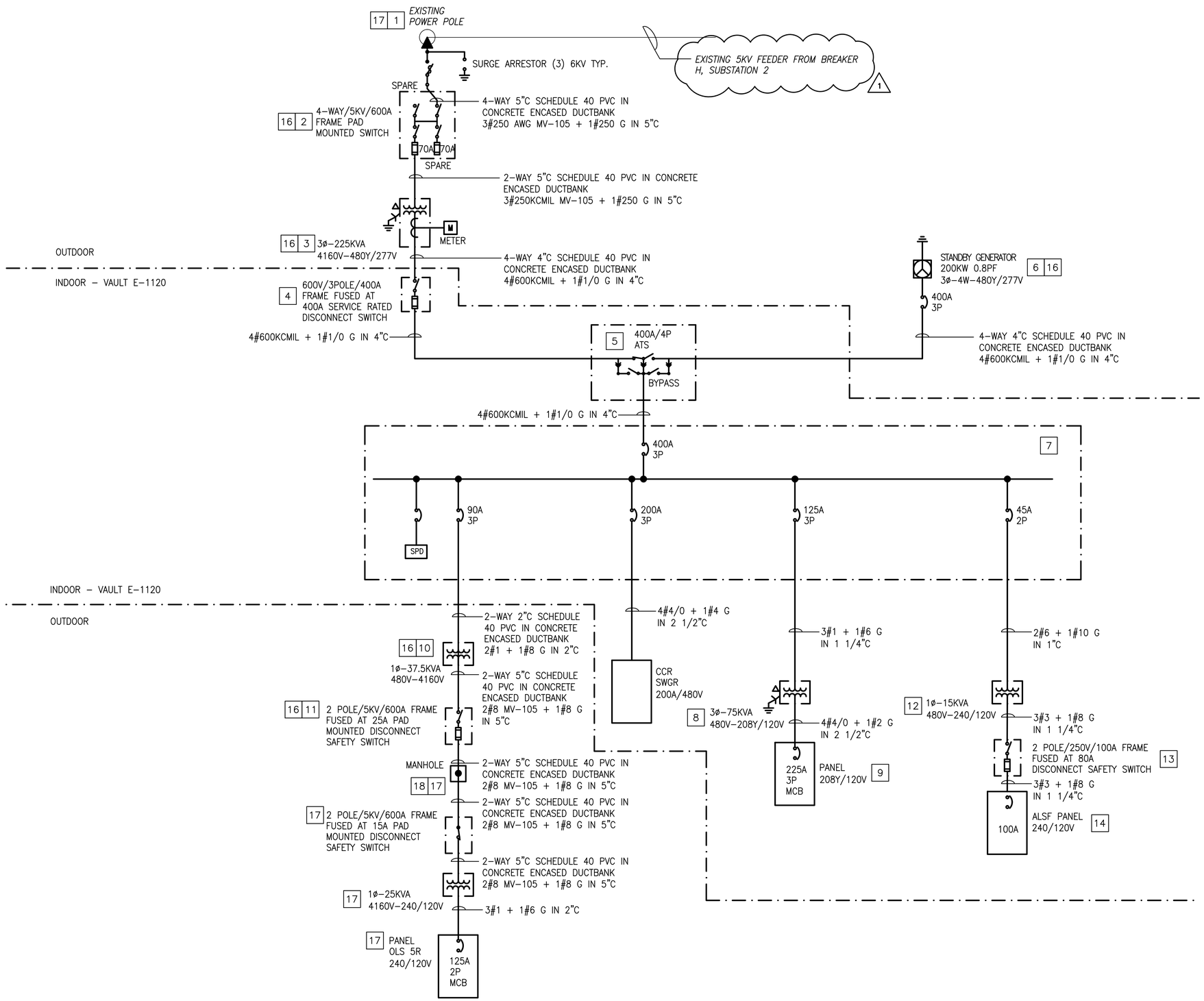
NAVFAC DRAWING NO. 12691889

SHEET 356 OF 368

E-602

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: H:\56427 NAS Oceana\Electrical\Phase1\Task 008\10-0863-008-E-602.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, April 23, 2015 - 7:41am USER: jrothe



VAULT E-1120 ONE LINE DIAGRAM

NTS

GENERAL SHEET NOTES

1. REFER TO DRAWINGS E-001 THRU E-005 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES.
2. REFER TO DRAWINGS E-407, E-408, AND E-409 FOR ADDITIONAL INFORMATION.
3. REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. REPAIR AND PATCH ANY DISTURBED AREAS TO MATCH EXISTING CONDITIONS.
5. UNLESS OTHERWISE NOTED, ELECTRICAL WORK AND MATERIALS ARE NEW AND MUST BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
6. THE WORK SHOWN ON THIS DRAWING TO BE COMPLETED UNDER PHASE 2.

CONSTRUCTION KEYNOTES

1. EXISTING POWER POLE. CONNECT NEW FEEDER FOR VAULT E-1120 IN A LOOP CONFIGURATION TO EXISTING FEEDER FROM BREAKER A, SUBSTATION 1. REFER TO DRAWING EA133-B FOR MORE INFORMATION.
2. 4-WAY, 600A, 5KV PAD MOUNTED SWITCH ON CONCRETE PAD.
3. 225KVA, 4160V-480Y/277V, PAD MOUNTED OIL-FILED TRANSFORMER WITH KWH REVENUE METER.
4. 400A, 3 POLE, 480Y/277V, 35KAIC SERVICE ENTRANCE RATED DISCONNECT SAFETY SWITCH, FUSED AT 400A.
5. 400A, 4 POLE, 480Y/277V, 35KAIC DELAYED OPEN TRANSITION, AUTOMATIC TRANSFER SWITCH WITH ISOLATION BYPASS.
6. 200KW, 250KVA, 3 PHASE, 4 WIRE, 480Y/277V, DIESEL STANDBY GENERATOR, IN WEATHERPROOF ENCLOSURE, WITH 325 GALLONS SUB-BASE FUEL TANK.
7. 400A, 480Y/277V, 35KAIC MAIN DISTRIBUTION PANEL WITH 400A MAIN CIRCUIT BREAKER.
8. 75KVA, 480V-208Y/120V, WALL MOUNTED DRY TYPE TRANSFORMER.
9. 250A, 208Y/120V PANEL WITH 225A MAIN CIRCUIT BREAKER.
10. 37.5KVA, 480V-4160V, SINGLE PHASE PAD MOUNTED OIL-FILED TRANSFORMER.
11. 600A, 5KV PAD MOUNTED SWITCH ON CONCRETE PAD.
12. RELOCATED 15KVA, 480V-240/120V, SINGLE PHASE WALL MOUNTED DRY TYPE TRANSFORMER.
13. 100A, 2 POLE, 250V, 10KAIC, DISCONNECT SAFETY SWITCH FUSED AT 80A.
14. RELOCATED ALSF PANEL.
15. POLE MOUNTED CUT-OFF SWITCH WITH SURGE ARRESTOR. REFER DRAWING E-504 FOR ADDITIONAL INFORMATION.
16. REFER TO DRAWING E-407 FOR EQUIPMENT LOCATION AND FEEDER ROUTING.
17. REFER TO EA-SERIES FOR EQUIPMENT LOCATION, FEEDER ROUTING, MANHOLES, POLE.
18. AIRFIELD MANHOLE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO EA-SERIES FOR MANHOLE QUANTITIES, LOCATIONS, AND DIMENSIONS.

SYM	DESCRIPTION	DATE	APPR
1	REVISED CIRCUIT DESIGNATION	4/29/15	MG

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES SJM DRW SJM CHK MG

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

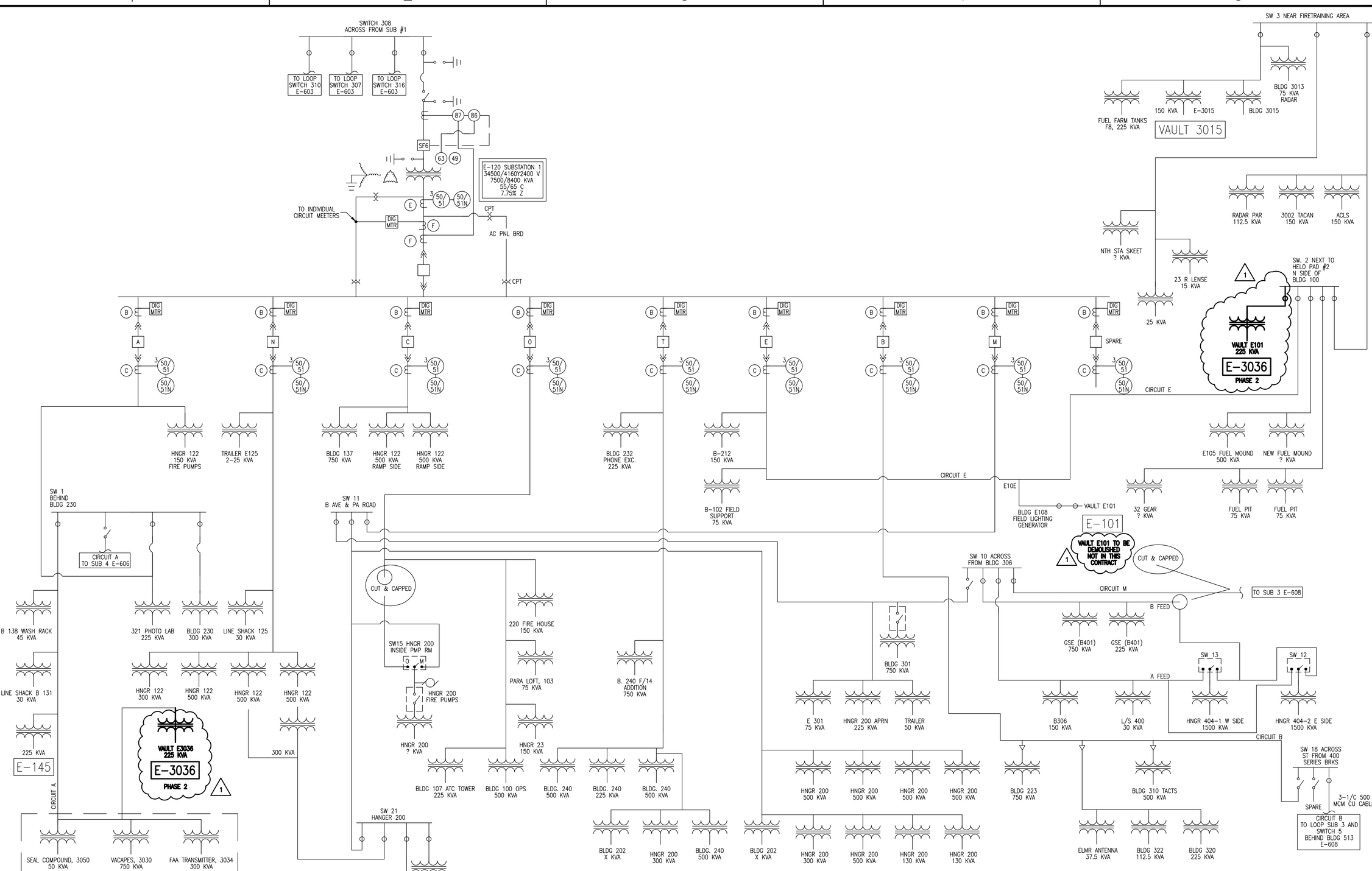
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL AIR STATION OCEANA ~ VIRGINIA BEACH, VIRGINIA
HR IPT
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
VAULT E-1120 - ONE LINE DIAGRAM

SCALE: NTS
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691890
SHEET 357 OF 368

E-603

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: H:\56427 NAS Oceana\Electrical\Planset\Task 008\10-0863-008-E-603.dwg LAYOUT NAME: Layout1 PLOTTED: Thursday, April 23, 2015 - 7:40am USER: prohe



OCEANA POWER DISTRIBUTION - ONE LINE DIAGRAM (1)

NOT TO SCALE

E-605

GENERAL SHEET NOTES

1. THE OCEANA POWER DISTRIBUTION DRAWINGS ARE INCLUDED TO ASSIST COORDINATION OF MEDIUM VOLTAGE POWER OUTAGES WITH THE OCEANA DEPARTMENT OF PUBLIC WORKS.

SYM	DESCRIPTION	DATE	APPR
1	ADD VAULT WORK	4/22/15	DJP

NAVFAC

SEAL

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
HR IPT
NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
OCEANA POWER DISTRIBUTION – ONE LINE DIAGRAM

SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12691892
SHEET 359 OF 368

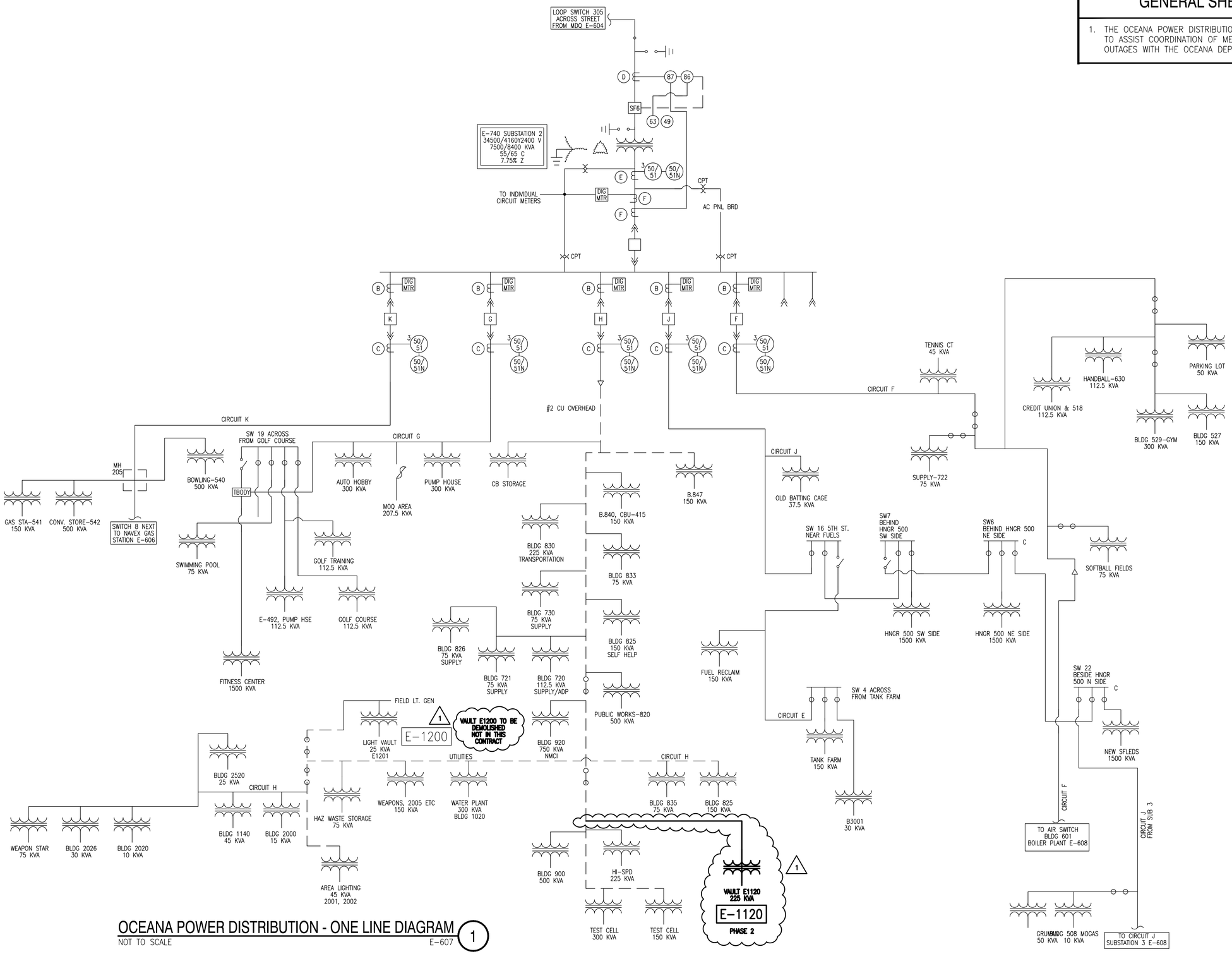
E-605

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: Q:\SMD\100863_008_Energy_and_Reliabili\CADD\ELECTRICAL\10-08863-008-E-605.dwg LAYOUT NAME: E-605 OCEANA POWER DISTRIBUTION - ONE LINE DIAGRAM PLOTTED: Tuesday, April 28, 2015 - 9:08pm USER: Rhyntt

GENERAL SHEET NOTES

1. THE OCEANA POWER DISTRIBUTION DRAWINGS ARE INCLUDED TO ASSIST COORDINATION OF MEDIUM VOLTAGE POWER OUTAGES WITH THE OCEANA DEPARTMENT OF PUBLIC WORKS.



OCEANA POWER DISTRIBUTION - ONE LINE DIAGRAM (1)

NOT TO SCALE

E-607

SYM	DESCRIPTION	DATE	APPR
1	ADD VAULT WORK	4/22/15	DJP

NAVFAC

SEAL

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JB DRW RRR CHK DJP

PM/DM

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NAVAL AIR STATION OCEANA – VIRGINIA BEACH, VIRGINIA
VIRGINIA BEACH, VIRGINIA
HR 8PT
NAVAL AIR STATION OCEANA
ENERGY AND RELIABILITY
MODERNIZATION OF AIRFIELD LIGHTING - PHASE 1 AND 2
OCEANA POWER DISTRIBUTION – ONE LINE DIAGRAM

SCALE: NOT TO SCALE
EPROJECT NO.: 1291651
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.: 12691894
SHEET 361 OF 368

E-607

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: G:\SMD\100863_008_Energy_and_Reliabil\CADD\ELECTRICAL\10-0863-008-E-607.dwg LAYOUT NAME: E-607 OCEANA POWER DISTRIBUTION – ONE LINE DIAGRAM PLOTTED: Tuesday, April 28, 2015 – 9:09pm USER: Rhurst