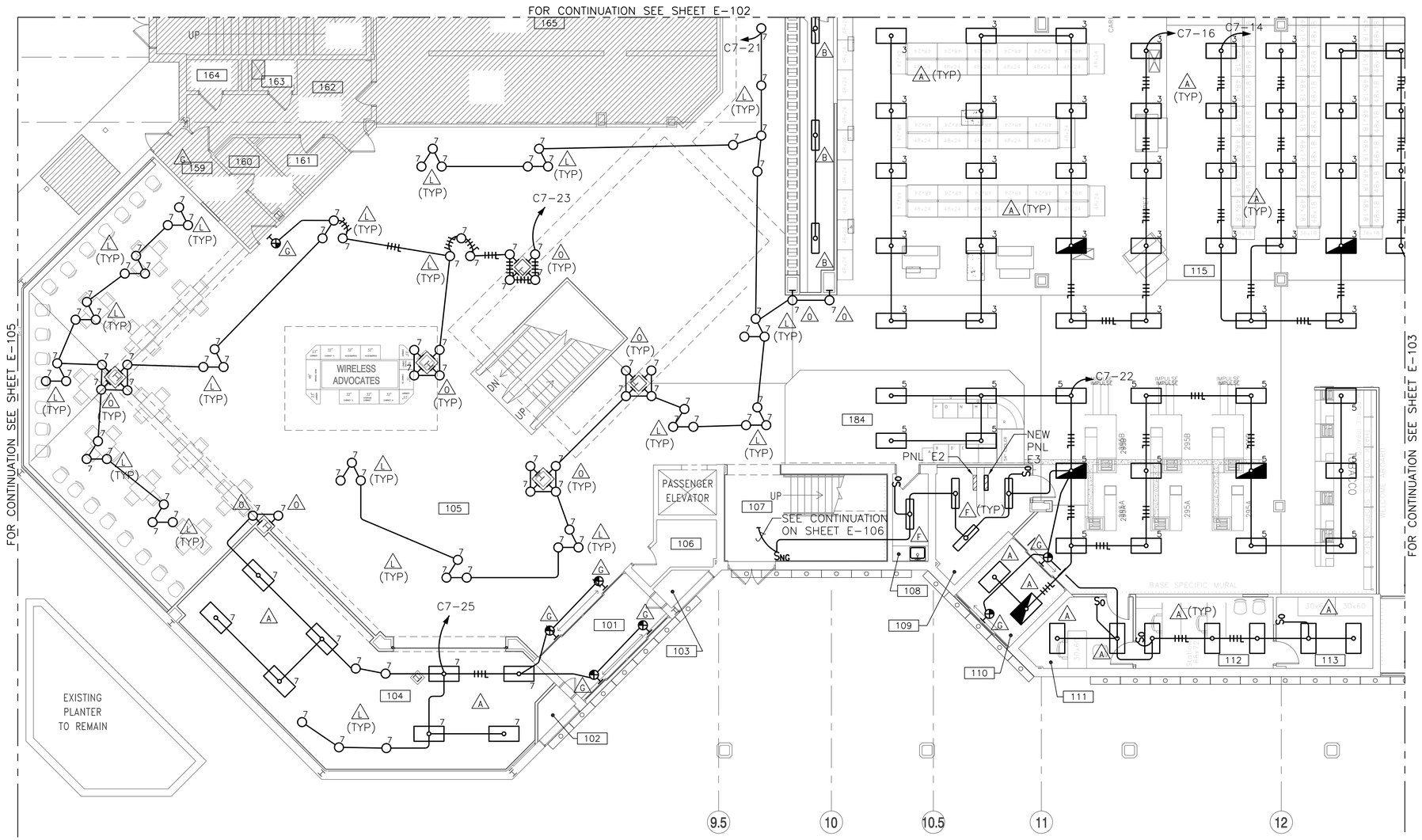


FIRST FLOOR - LIGHTING PLAN - AREA 'A' 1

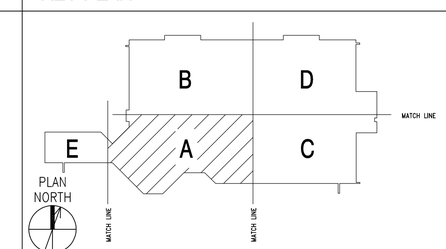
1/8" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. REFER TO SHEET E-607 AND E-608 FOR NLIGHT BRIDGE #2 AND #3 ZONE 3, 5, AND 7 CONTROL DIAGRAM.

KEY PLAN



SCALE: 1/8" = 1'-0" (0, 4', 8', 16')

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA — S. G. Roberts, Lic. No.10424, 5-15-15, PROFESSIONAL ENGINEER

HBA

APPROVED: David W. Dunfield
FOR COMMANDER NAVFAC

ACTIVITY: CDR MARC BERNATH, NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014

DES MED | DRW DJL | CHK SGR

PM/DM RDS/PJB

BRANCH MANAGER

CHIEF ENG/ARCH DWG

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR – LIGHTING PLAN – AREA 'A'

SCALE: GRAPHIC

EPROJECT NO. 1305708

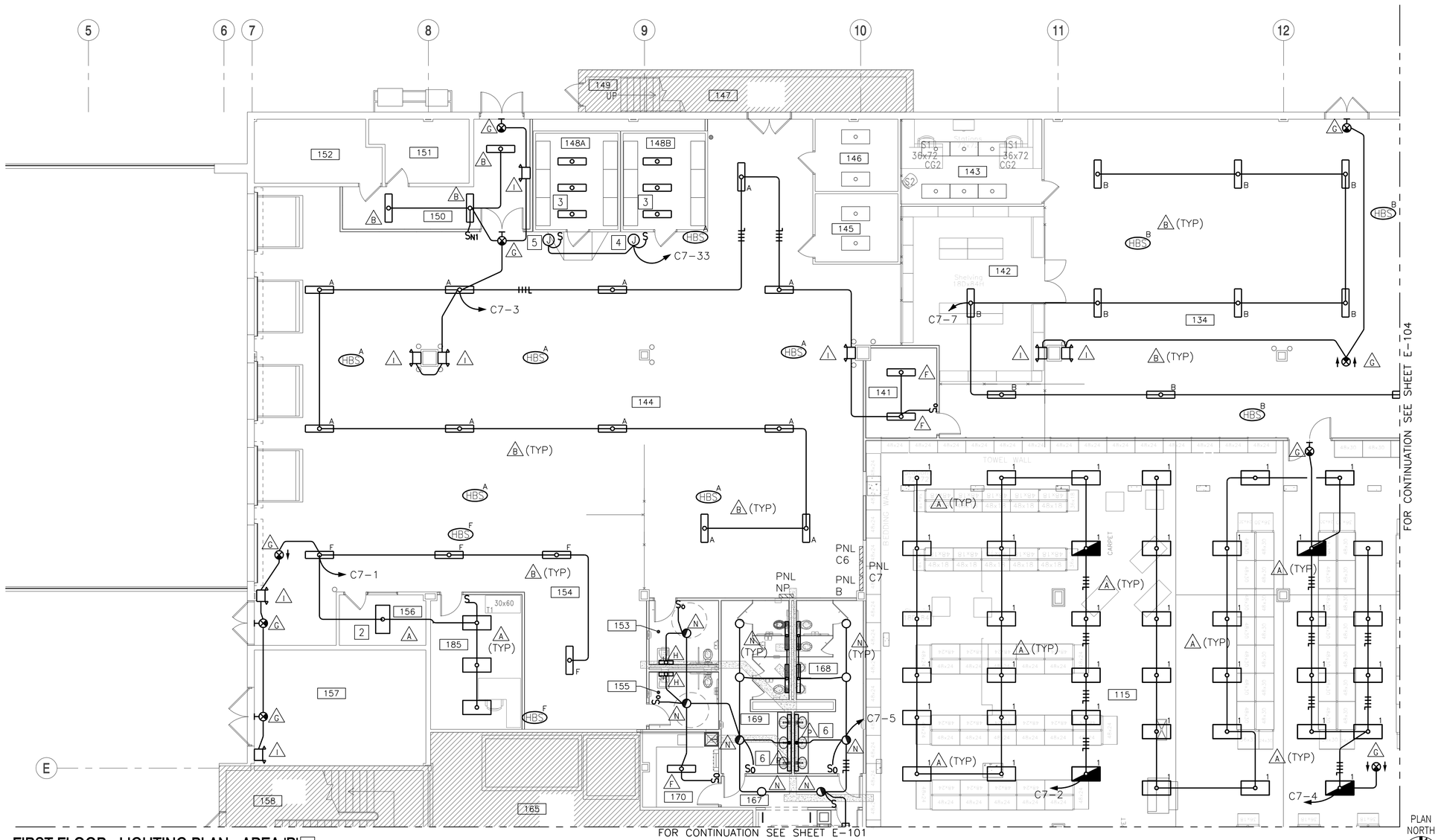
CONSTR. CONTR. NO. N40085-14-C-5203

NAVFAC DRAWING NO. 12667834

SHEET 190 OF 248

E-101

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:03pm USER: dlawson



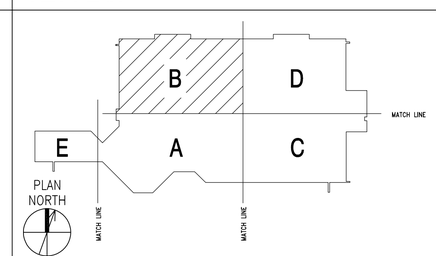
FIRST FLOOR - LIGHTING PLAN - AREA 'B' 1

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. REFER TO SHEET E-607 FOR BRIDGE #1 ZONE A, B, F, AND 1 DIAGRAM.
2. PROVIDE LED FIXTURE AND COORDINATE LOCATION WITH DIFFUSERS. REUSE EXISTING LIGHTING CONTROL. MAINTAIN CONTINUITY AS REQUIRED.
3. LIGHTING FIXTURES WILL BE PROVIDED BY EQUIPMENT MANUFACTURER.
4. WALK-IN COOLER LIGHTING, POWER CONNECTION. MOUNT JUNCTION BOX 112" AFF.
5. WALK-IN FREEZER LIGHTING, POWER CONNECTION. MOUNT JUNCTION BOX 112" AFF.
6. PROVIDE FIXTURE TYPE P WITH 8' OF STRIP LIGHTS AT TOP AND BOTTOM OF MIRROR, AND 4' OF STRIP LIGHTS ON EACH SIDE.

KEY PLAN



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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

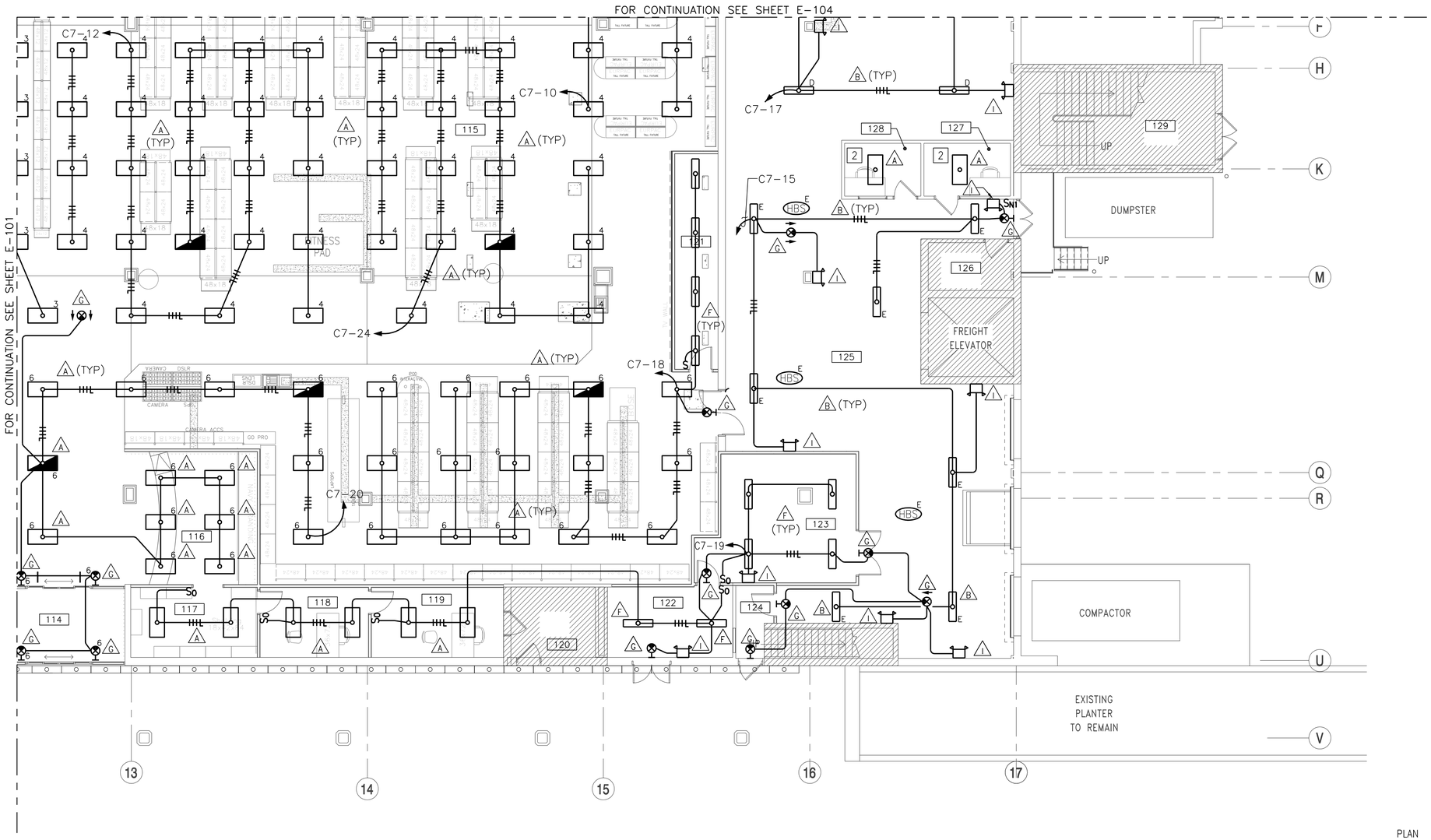
ACTIVITY
CDR MARC BERNATH
NEXCOM - FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER jas
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NE IPT
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION - NORFOLK, VIRGINIA
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR - LIGHTING PLAN - AREA 'B'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667835
SHEET 191 OF 248
E-102

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:04pm USER: dlawson



FIRST FLOOR - LIGHTING PLAN - AREA 'C' 1

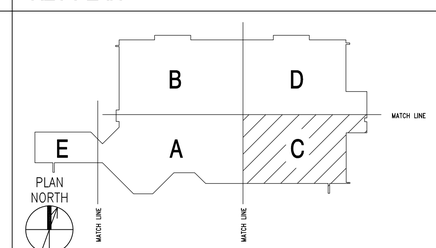
1/8" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. REFER TO SHEETS E-607 AND E-608 FOR BRIDGE #2 AND 3 ZONE D, 3, 4, AND 6 CONTROL DIAGRAM.
2. PROVIDE LED FIXTURE AND COORDINATE LOCATION WITH DIFFUSERS. REUSE EXISTING LIGHTING CONTROL. MAINTAIN CONTINUITY AS REQUIRED.

KEY PLAN



SCALE: 1/8" = 1'-0" (0, 4', 8', 16')

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

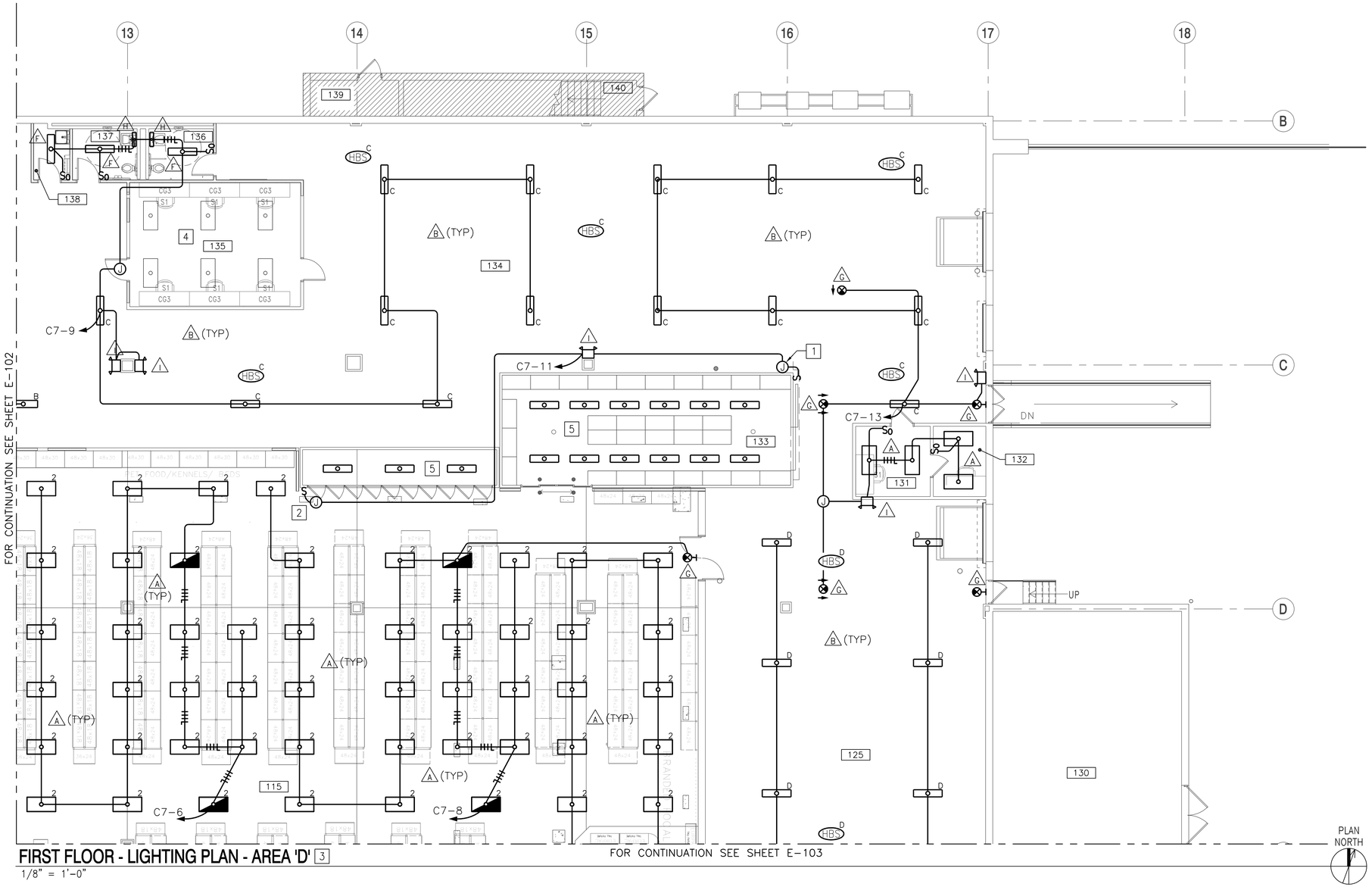
ACTIVITY: CDR MARC BERNATH NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NE IPT
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
SUBBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR – LIGHTING PLAN – AREA 'C'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667836
SHEET 192 OF 248
E-103

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:04pm USER: dlawson



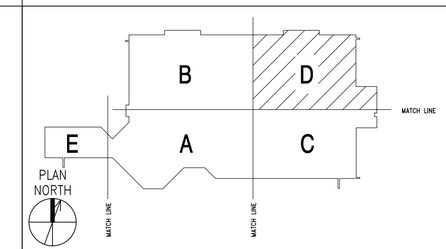
FIRST FLOOR - LIGHTING PLAN - AREA 'D' 3

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. WALK-IN BEER COOLER LIGHTING, POWER CONNECTION. MOUNT JUNCTION BOX 112" AFF.
2. REACH-IN BEER COOLER LIGHTING, POWER CONNECTION. MOUNT JUNCTION BOX 112" AFF.
3. REFER TO SHEET E-607 FOR BRIDGE #1 AND #2 ZONE C, D, AND 2 DIAGRAM.
4. REINSTALL EXISTING FIXTURES. MAINTAIN CONTINUITY AS PROVIDED. FIXTURES SHALL BE REPAIRED AND RE-LAMPED.
5. LIGHTING FIXTURES WILL BE PROVIDED BY EQUIPMENT MANUFACTURER.

KEY PLAN



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

SYM	DESCRIPTION	DATE	APPR

APPROVED: S. G. Roberts Lic. No.10424 5-15-15 COMMONWEALTH OF VIRGINIA PROFESSIONAL ENGINEER

FOR COMMANDER NAVFAC

ACTIVITY: CDR MARC BERNATH NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014

DES MED DRW DJL CHK SGR

PM/DM RDS/PJB

BRANCH MANAGER

CHIEF ENG/ARCH DWG

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR – LIGHTING PLAN – AREA 'D'

SCALE: GRAPHIC

EPROJECT NO. 1305708

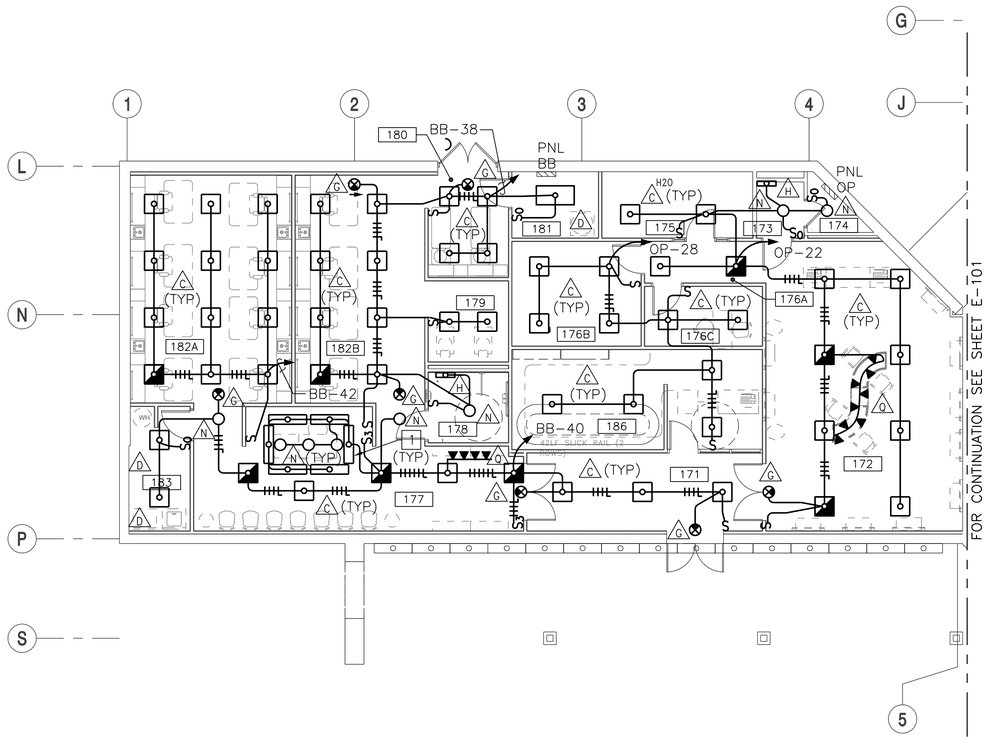
CONSTR. CONTR. NO. N40085-14-C-5203

NAVFAC DRAWING NO. 12667837

SHEET 193 OF 248

E-104

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:04pm USER: dlawson



FIRST FLOOR - LIGHTING PLAN - AREA 'E'

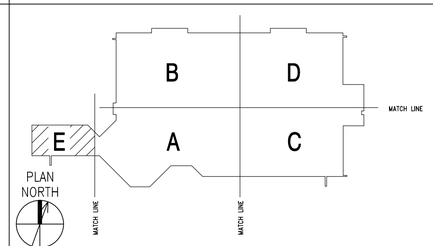
1/8" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. PROVIDE FIXTURES TYPE K FOR COVE LIGHT.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

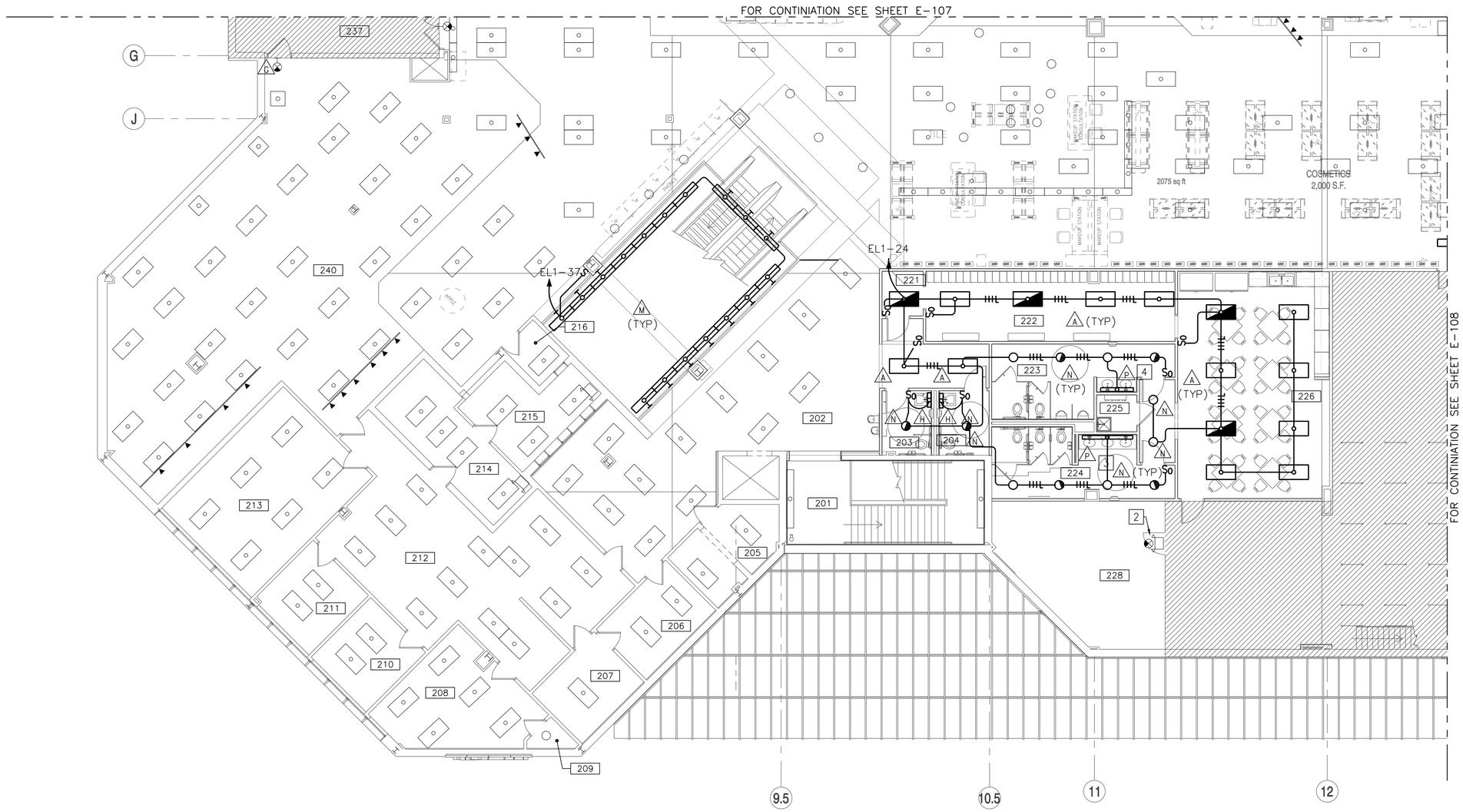
ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NE IPT
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
SUBASE NEW LONDON GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR – LIGHTING PLAN – AREA 'E'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667838
SHEET 194 OF 248
E-105

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:04pm USER: dlawson



SECOND FLOOR - LIGHTING PLAN - AREA 'A' 1

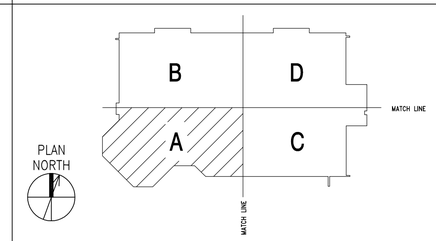
1/8" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. EXISTING FIXTURES INDICATED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION, CLEANED AND RE-PLAMPED.
2. RELOCATED EMERGENCY AND EXIT LIGHTING FIXTURES. SEE SHEET ED106.
3. PROVIDE FIXTURE TYPE P WITH 4' AND 2' OF STRIP LIGHTS CREATING 6' ROW AT TOP AND BOTTOM OF MIRROR AND 4' OF STRIP LIGHTS AT EACH SIDE.
4. PROVIDE FIXTURE TYPE P WITH 4' OF STRIP LIGHTS ON ALL FOUR SIDES OF MIRROR.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED BY: David W. Grunfeld
FOR COMMANDER NAVFAC

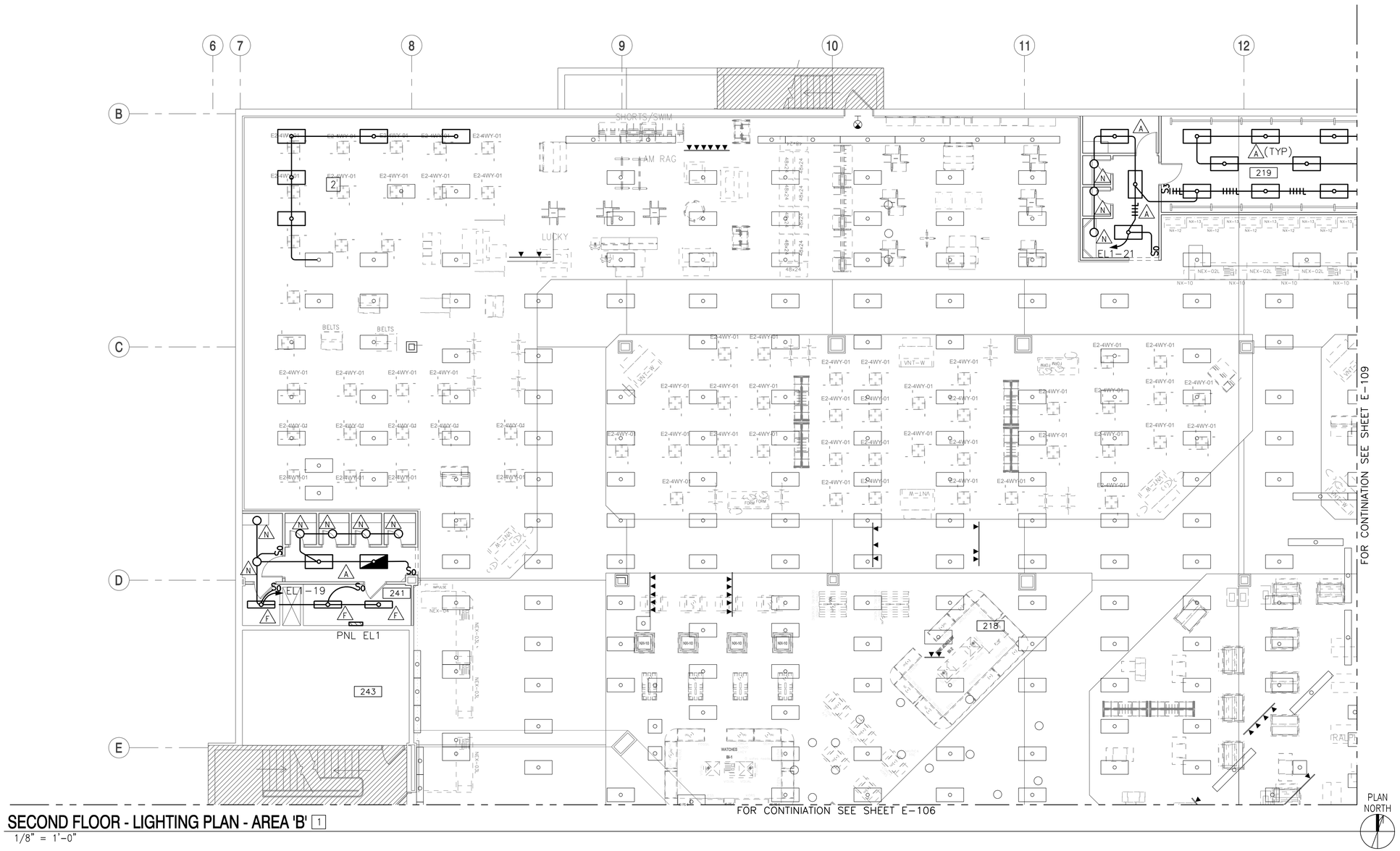
ACTIVITY: CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
SECOND FLOOR – LIGHTING PLAN – AREA 'A'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667839
SHEET 195 OF 248
E-106

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:04pm USER: dlawson



SECOND FLOOR - LIGHTING PLAN - AREA 'B' 1

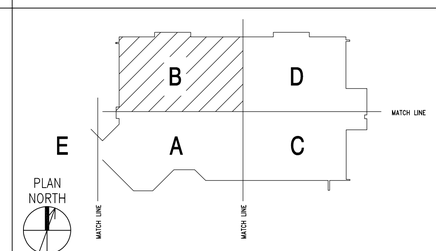
1/8" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. EXISTING FIXTURES INDICATED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION, CLEANED AND RE-PLAMPED.
2. PROVIDE LIGHTING FIXTURES SIMILAR TO EXISTING AND EXTEND POWER CONNECTION FROM EXISTING LIGHTING FIXTURE AS SHOWN. FIXTURES SHALL BE DEMOLISHED PER OPTION 1.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

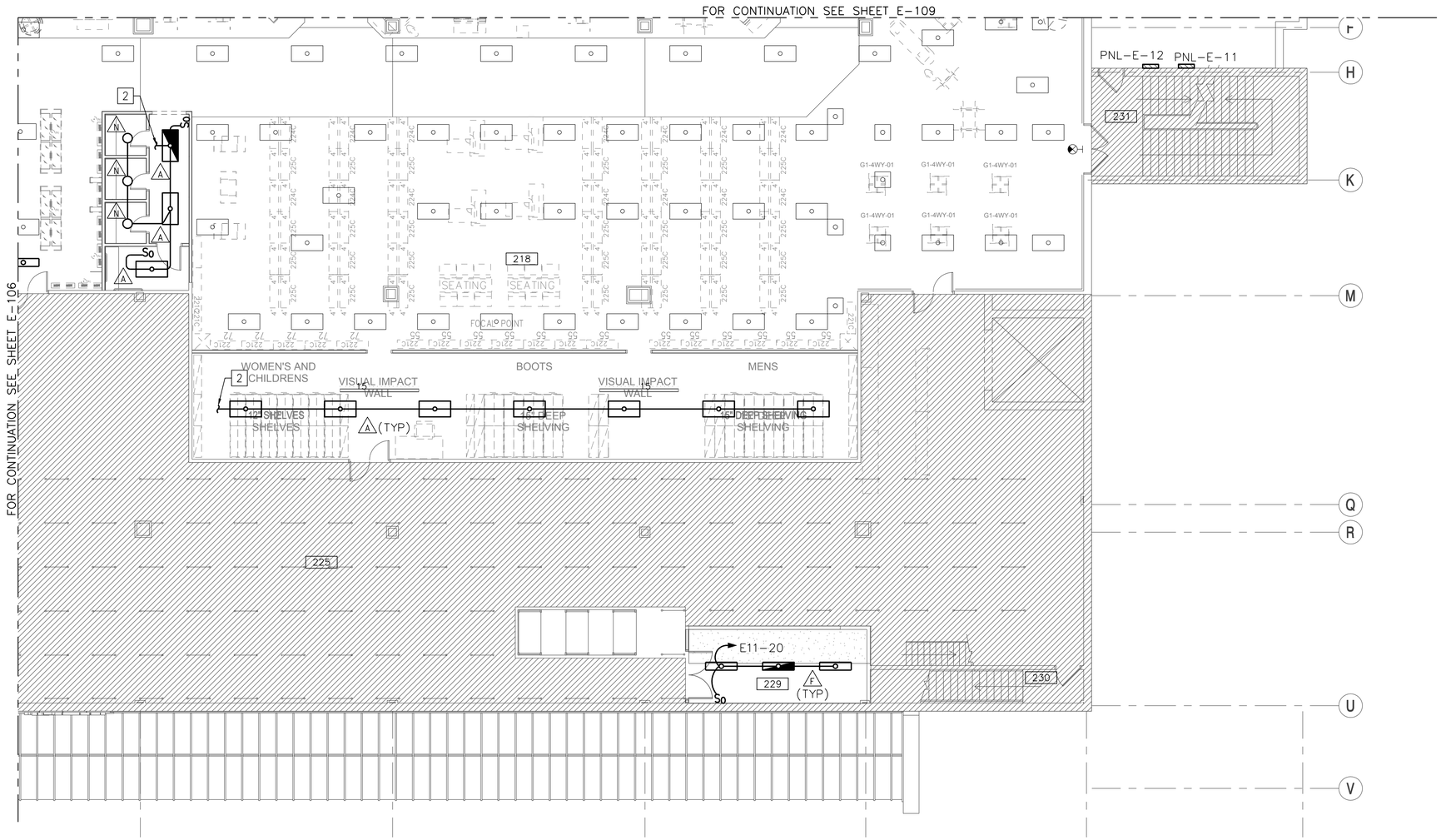
ACTIVITY
CDR MARC BERNATH
NEXCOM - FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NE IPT
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION - NORFOLK, VIRGINIA
SUBASE NEW LONDON GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
SECOND FLOOR - LIGHTING PLAN - AREA 'B'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667840
SHEET 196 OF 248
E-107

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:05pm USER: dlawson



SECOND FLOOR - LIGHTING PLAN - AREA 'C' 1

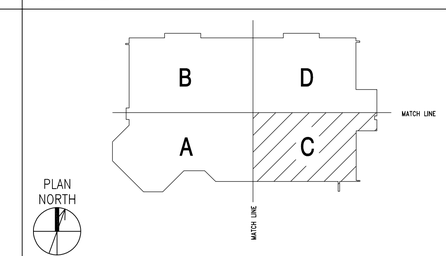
1/8" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. EXISTING FIXTURES INDICATED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION, CLEANED AND RE-PLAMPED.
2. CONNECT THIS BRANCH CIRCUIT TO EXISTING HOMERUN BEING USED IN THIS AREA.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

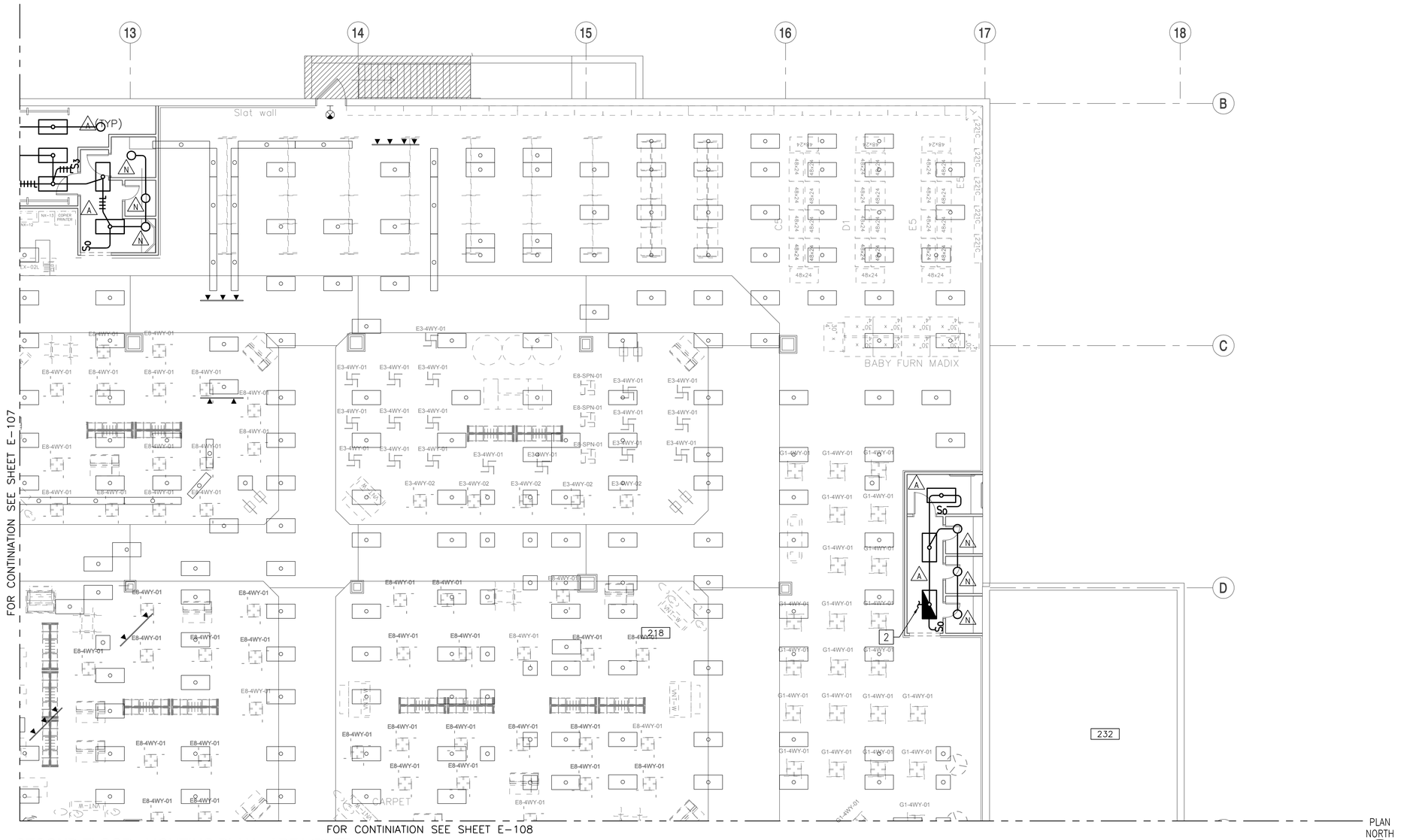
ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG.
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NE IPT
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
SUBASE NEW LONDON GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
SECOND FLOOR – LIGHTING PLAN – AREA 'C'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667841
SHEET 197 OF 248
E-108

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:05pm USER: dlawson



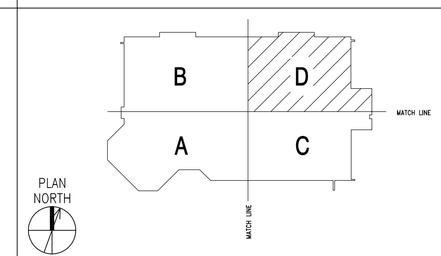
SECOND FLOOR - LIGHTING PLAN - AREA 'D' 1

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. EXISTING FIXTURES INDICATED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.
2. CONNECT THIS BRANCH CIRCUIT TO EXISTING HOMERUN BEING USED IN THIS AREA.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY: CDR MARC BERNATH, NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014

DES MED DRW DJL CHK SGR

PM/DM RDS/PJB

BRANCH MANAGER

CHIEF ENG/ARCH DWG

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
SECOND FLOOR – LIGHTING PLAN – AREA 'D'

SCALE: GRAPHIC

EPROJECT NO. 1305708

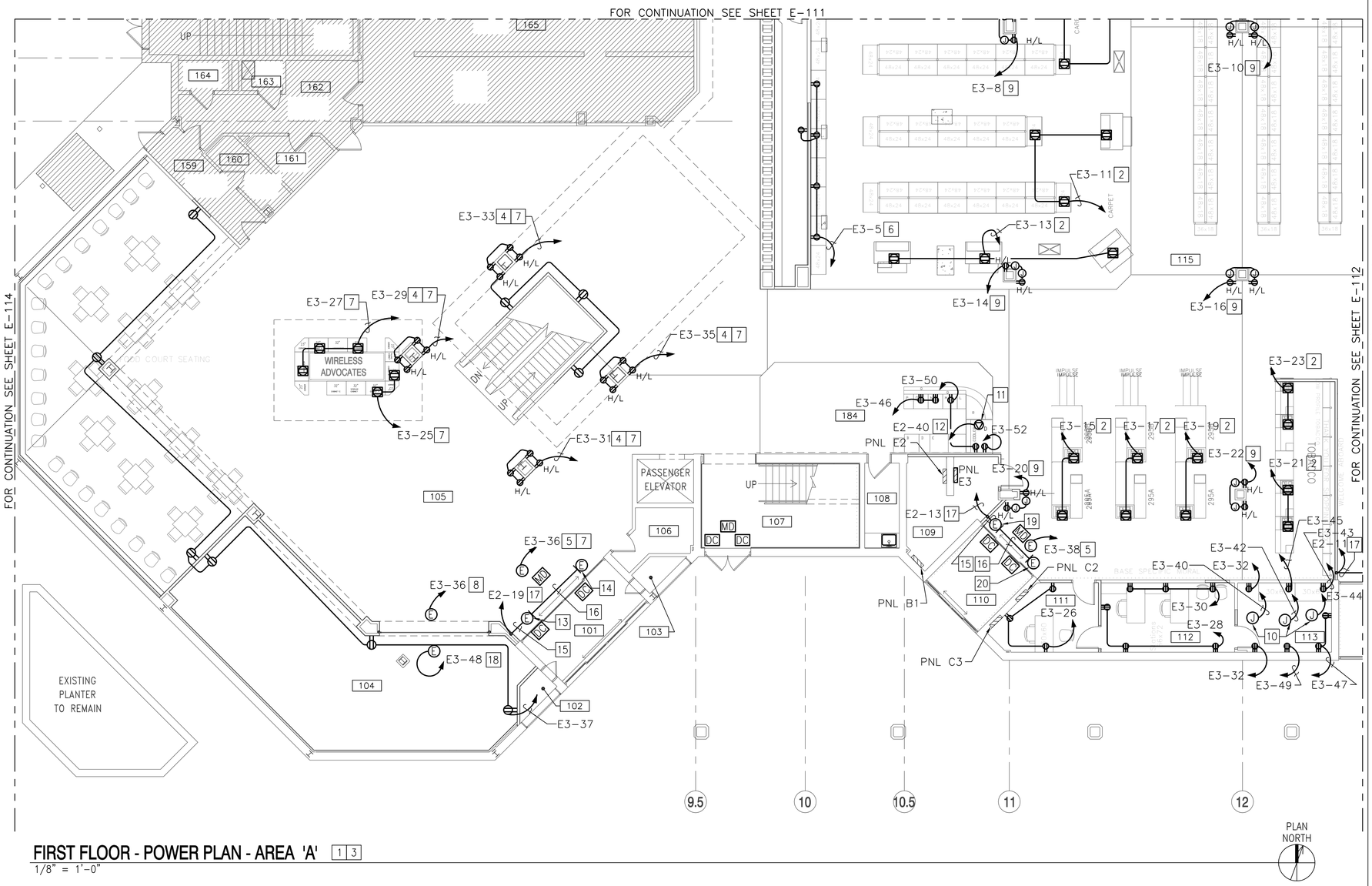
CONSTR. CONTR. NO. N40085-14-C-5203

NAVFAC DRAWING NO. 12667842

SHEET 198 OF 248

E-109

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:05pm USER: dlawson



FIRST FLOOR - POWER PLAN - AREA 'A' [1|3]

1/8" = 1'-0"

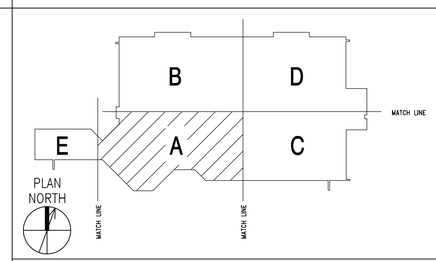
NEW WORK KEYNOTES (CONTINUED)

13. SECURITY PEDESTAL (PRO-MAX) PRIMARY UNIT. PROVIDE 120 VOLT CONNECTOR TO THIS UNIT ONLY. REFER TO SECURITY LOSS PREVENTION DETAIL ON SHEET E-503.
14. SECURITY PEDESTAL (PRO-MAX) SECONDARY UNIT. PROVIDE LOW VOLTAGE INTERCONNECT CABLE TO THIS UNIT ONLY.
15. TWO #10 & ONE #10 GND IN 1/2"C IN FLOOR.
16. LOW VOLTAGE INTERCONNECT CABLE IN 3/4"C IN FLOOR.
17. CONNECT TO SPARE 20A #1 CIRCUIT IN EXISTING PANEL E2.
18. POWER TO GNC OVERHEAD GRILLE.
19. SECURITY PEDESTAL (ULTRAPOST) PRIMARY UNIT. PROVIDE 120 VOLT CONNECTOR TO THIS UNIT ONLY. REFER TO SECURITY LOSS PREVENTION DETAIL ON SHEET E-503.
20. SECURITY PEDESTAL (ULTRAPOST) SECONDARY UNIT. PROVIDE LOW VOLTAGE INTERCONNECT CABLE TO THIS UNIT ONLY.

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES WITH ARCHITECTURAL SHEETS AND CONTRACTING OFFICER, PRIOR TO ROUGH-IN.
2. TWO #10 AND ONE #10 GND IN 1/2" CONDUIT. RUN CONDUIT TO NEAREST COLUMN/WALL AND TURN UP TO ABOVE CEILING.
3. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR CUTTING AND REPAIRING REQUIREMENTS TO ACCOMMODATE FLOOR BOXES AND CONDUIT.
4. TWO DUPLEX RECEPTACLES 2.25" AFF MOUNT HORIZONTALLY AND TWO DUPLEX RECEPTACLES AT 6" BELOW EXPOSED STRUCTURE, ON EACH COLUMN. COORDINATE EXACT LOCATION OF RECEPTACLES WITH ARCHITECTURAL SHEETS, PRIOR TO ROUGH-IN.
5. DEDICATED POWER SUPPLY FOR CCTV SCREEN AND CAMERA.
6. COORDINATE EXACT LOCATION OF RECEPTACLES WITH ARCHITECTURAL SHEETS AND SHELVING.
7. TWO #10 AND ONE #10 GND 1/2" CONDUIT. RUN CONDUIT TO NEAREST COLUMN/WALL AND TURN UP TO ABOVE EXPOSED STRUCTURE. CONDUIT SHALL BE PAINTED TO MATCH STRUCTURE.
8. POWER TO GNC SIGN. SEE SHEET A-403 ELEVATION ALL FOR SIGN LOCATION.
9. TWO NEMA 5-20R DUPLEX RECEPTACLES MOUNTED HORIZONTALLY AT 2.25" AFF IN COLUMN, AND TWO 4" SQ JUNCTION BOXES WITH BLANK COVER PLATES MOUNTED @ 6" ABOVE CEILING. RECEPTACLES AND JUNCTION BOXES SHALL BE PROVIDED WITH 120 VOLT POWER FROM INDICATED CIRCUIT. LEAVE 6" CAPPED TAILS IN JUNCTION BOXES FOR FUTURE USE BY NEXCOM.
10. 4" SQ JUNCTION BOX LOCATED 6" ABOVE CEILING FOR FUTURE CAMERA ROOM POWER.
11. OPEN COOLER 3/4 HP, 208 V, 7 A CONNECTION. PROVIDE 20 A, 2 POLE, 3 WIRE, 250 V, NEMA 6-20 RECEPTACLE.
12. USE EXISTING 20 A, 2 POLE, 208 V FLOVER COOLER CB #40.

KEY PLAN



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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA — S. G. Roberts — Lic. No.10424 — 5-15-15 — PROFESSIONAL ENGINEER

HBA

APPROVED: David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY: CDR MARC BERNATH, NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014

DES MED | DRW DJL | CHK SGR

PM/DM RDS/PJB

BRANCH MANAGER

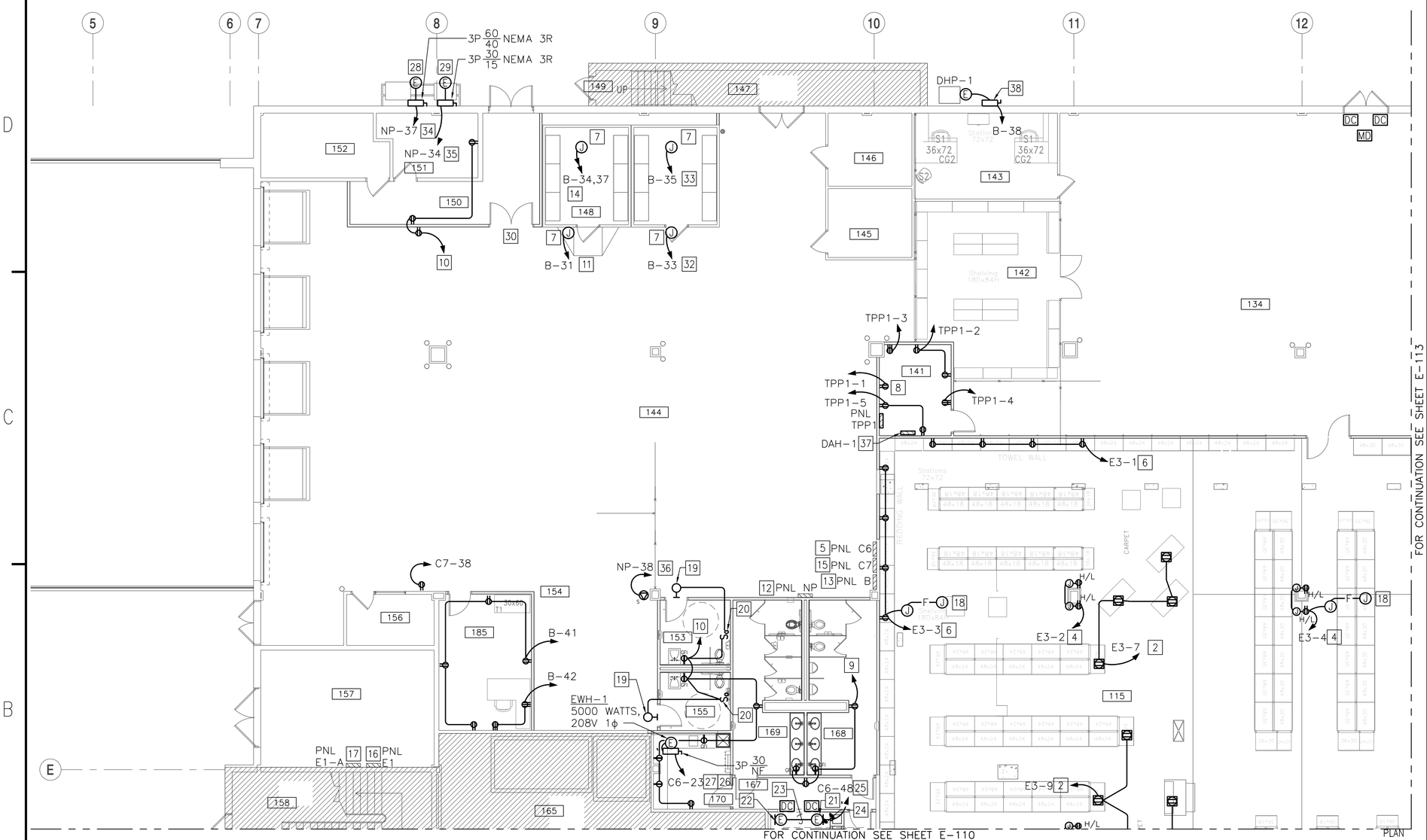
CHIEF ENG/ARCH DWG

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR – POWER PLAN – AREA 'A'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667843
SHEET 199 OF 248
E-110

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:05pm USER: dlawson



FIRST FLOOR - POWER PLAN - AREA 'B' 1 3

1/8" = 1'-0"

NEW WORK KEYNOTES (CONTINUED 31)

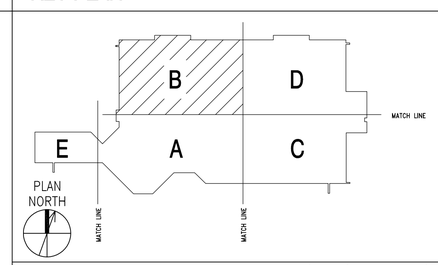
14. PROVIDE TWO 30A, 2P BREAKER IN EXISTING PANEL 'B' FOR WALK-IN FREEZER.
15. EXISTING PANELBOARD 'C7', 225A, MLO, 208Y/120, 3ø, 4W FLUSH MOUNTED TO REMAIN.
16. EXISTING PANELBOARD 'E1', 225A, MLO, 208Y/120, 3ø, 4W SURFACE MOUNTED TO REMAIN.
17. EXISTING PANELBOARD 'E1-A', 100A, MLO, 208Y/120, 3ø, 4W SURFACE MOUNTED TO REMAIN.
18. MOUNT 4" SQ JUNCTION BOX W/BLANK COVER PLATE ABOVE CEILING, AND EXTEND 120 VOLT POWER FROM RECEPTACLE BELOW. PROVIDE JUNCTION BOX WITH TWO #10 & ONE #10 GND 1/2"C. FLEXIBLE WHIP AND TERMINATED ON 4" SQ JUNCTION BOX. LEAVE 6" CAPPED TAILS IN BOX FOR FUTURE USE BY NEXCOM.
19. EMERGENCY CALL SYSTEM ALARM/LIGHT EDWARDS #7007BA-N5 OR APPROVED EQUAL. MOVE UNIT 6" ABOVE TOP OF DOOR.
20. EMERGENCY CALL SYSTEM PULL SWITCH. SWITCH SHALL BE PROVIDED WITHIN 3'-0" OF THE WATER CLOSET WITH A PULLCORD EXTENDING TO WITHIN 12 INCHES OF THE FLOOR.
21. SECURITY PEDESTAL (DOOR MAX) PRIMARY UNIT. PROVIDE 120 VOLT CONNECTION TO THIS UNIT ONLY. REFER TO SECURITY LOSS PREVENTION DETAIL ON SHEET E-503.
22. SECURITY PEDESTAL (DOOR MAX) SECONDARY UNIT. PROVIDE LOW VOLTAGE INTERCONNECTED CABLE TO THIS UNIT ONLY.
23. LOW VOLTAGE INTERCONNECT CABLE IN A 3/4"C IN FLOOR.
24. TWO #10 & ONE #10 GND IN 1/2"C IN FLOOR.
25. CONNECT TO SPARE 20/1 CIRCUIT IN EXISTING PANEL C6.
26. REMOVE 20/3 BRANCH FROM EXISTING PANEL C6 CIRCUIT #23. REPLACE WITH 30/2 BREAKER FOR WATER HEATER 1.
27. THREE #10 & ONE #10 GND IN 1/2"C.
28. WALK-IN FREEZER CONDENSING UNIT.
29. WALK-IN COOLER CONDENSING UNIT.
30. PROVIDE JUNCTION BOX 12" ABOVE DOOR AND 1/2"C WITH PULL WIRE AND RIGHT ANGLE UNDER BOTTOM OF DEC FOR FUTURE ALARM CABLING BY SECURITY CONTRACTOR.
31. REFER TO SHEET E-112 FOR SHEET E-111 NEW WORK KEYNOTES CONTINUATION.

FOR CONTINUATION SEE SHEET E-113

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES WITH ARCHITECTURAL SHEETS AND CONTRACTING OFFICER, PRIOR TO ROUGH-IN.
2. TWO #10 AND ONE #10 GND IN 1/2" CONDUIT. RUN CONDUIT TO NEAREST COLUMN/WALL AND TURN UP TO ABOVE CEILING.
3. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR CUTTING AND REPAIRING REQUIREMENTS TO ACCOMMODATE FLOOR BOXES AND CONDUIT.
4. TWO NEMA 5-20R DUPLEX RECEPTACLES MOUNTED HORIZONTALLY AT 2.25" AFF IN COLUMN, AND TWO 4" SQ JUNCTION BOXES WITH BLANK COVER PLATES MOUNTED @ 6" ABOVE CEILING. RECEPTACLES AND JUNCTION BOXES SHALL BE PROVIDED WITH 120 VOLT POWER FROM INDICATED CIRCUIT. LEAVE 6" CAPPED TAILS IN JUNCTION BOXES FOR FUTURE USE BY NEXCOM.
5. EXISTING PANELBOARD 'C6', 100A, MLO, 208Y/120, 3ø, 4W FLUSH MOUNTED TO REMAIN.
6. COORDINATE EXACT LOCATION OF RECEPTACLES WITH ARCHITECTURAL SHEETS AND SHELVING.
7. MOUNT JUNCTION BOX 112" AFF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO APPLIANCE.
8. RECEPTACLE FOR RACK SHALL BE WHIP MOUNTED FROM CEILING.
9. CONNECT TO EXISTING 20/1 CIRCUIT B-24. IN EXISTING PANEL 'B'.
10. CONNECT TO EXISTING 20/1 CIRCUIT B-23 IN EXISTING PANEL 'B'.
11. PROVIDE 20A, 1P BREAKER IN EXISTING PANEL 'B' FOR WALK-IN FREEZER.
12. EXISTING PANELBOARD 'NP', 400A, MLO, 208Y/120, 3ø, 4W SURFACE MOUNTED TO REMAIN.
13. EXISTING PANELBOARD 'B', 225A, MLO, 208Y/120, 3ø, 4W FLUSH MOUNTED TO REMAIN.

KEY PLAN



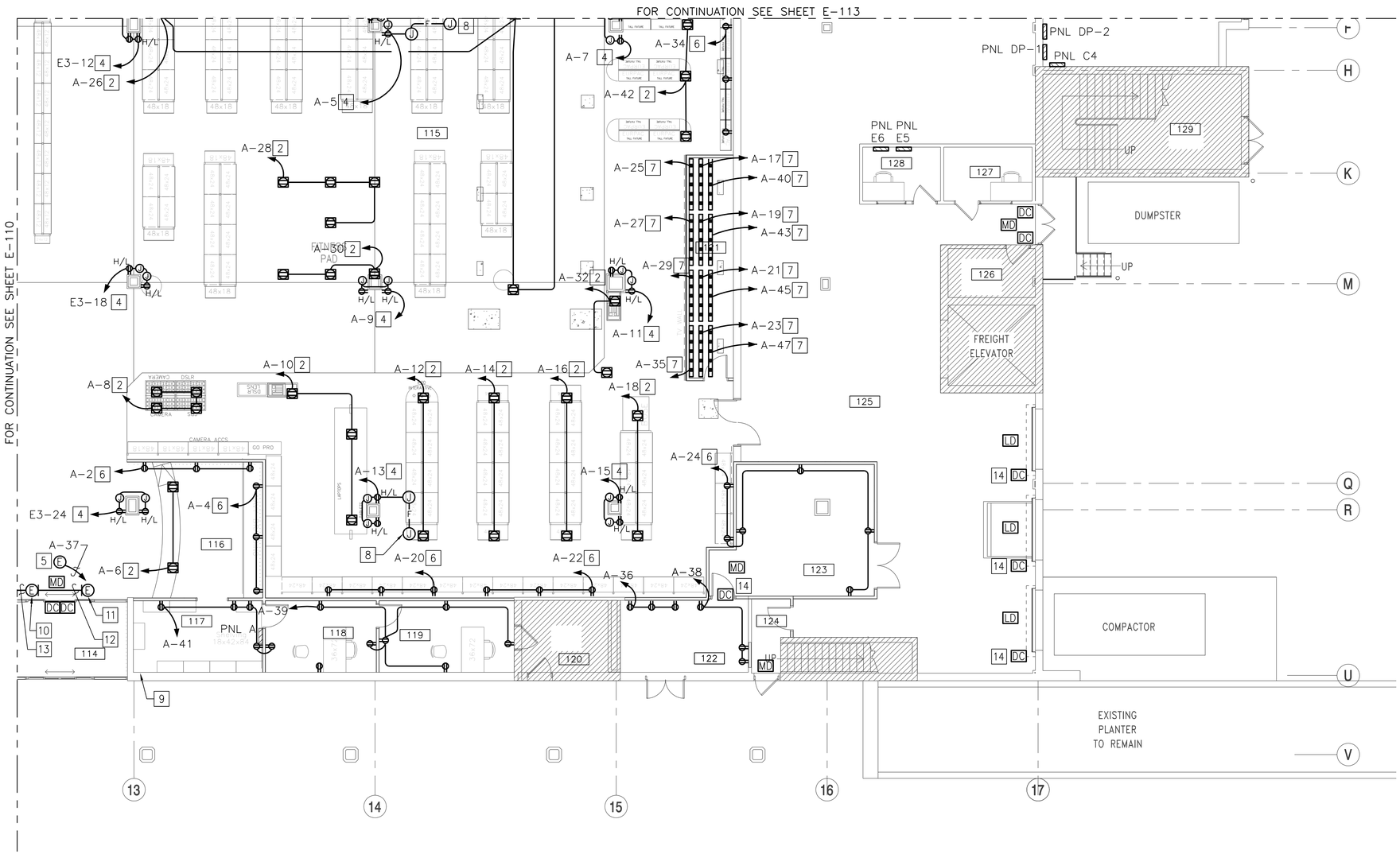
SYM	DESCRIPTION	DATE	APPR

APPROVED: David W. Grunfeld
FOR COMMANDER NAVFAC
ACTIVITY: CDR MARC BERNATH, NEXCOM - FACILITIES DIVISION
SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION - NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR - POWER PLAN - AREA 'B'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667844
SHEET 200 OF 248
E-111

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:05pm USER: dlawson



FIRST FLOOR - POWER PLAN - AREA 'C' [1 3]

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES WITH ARCHITECTURAL SHEETS AND CONTRACTING OFFICER, PRIOR TO ROUGH-IN.
2. PROVIDE TWO #10 AND ONE #10 GND IN 1/2"C. RUN CONDUIT TO NEAREST COLUMN/WALL AND TURN UP TO ABOVE CEILING.
3. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR CUTTING AND REPAIRING REQUIREMENTS TO ACCOMMODATE FLOOR BOXES AND CONDUIT.
4. TWO NEMA 5-20R DUPLEX RECEPTACLES MOUNTED HORIZONTALLY AT 2.25" AFF IN COLUMN, AND TWO 4" SQ JUNCTION BOXES WITH BLANK COVER PLATES MOUNTED @ 6" ABOVE CEILING. RECEPTACLES AND JUNCTION BOXES SHALL BE PROVIDED WITH 120 VOLT POWER FROM INDICATED CIRCUIT. LEAVE 6" CAPPED TAILS IN JUNCTION BOXES FOR FUTURE USE BY NEXCOM.
5. PROVIDE DEDICATED POWER SUPPLY FOR CCTV SCREEN AND CAMERA.
6. COORDINATE EXACT LOCATIONS OF RECEPTACLES WITH ARCHITECTURAL SHEETS AND SHELVING.
7. COORDINATE OUTLETS WITH ARCHITECTURAL SHEETS AND TV WALL DETAIL.
8. MOUNT 4" SQ JUNCTION BOX W/BLANK COVER PLATE ABOVE CEILING, AND EXTEND 120 VOLT POWER FROM RECEPTACLE BELOW. PROVIDE JUNCTION BOX WITH TWO #10 & ONE #10 GND 1/2"C, FLEXIBLE WHIP AND TERMINATED ON 4" SQ JUNCTION BOX. LEAVE 6" CAPPED TAILS IN BOX FOR FUTURE USE BY NEXCOM.
9. LOCATION FOR EXISTING PANELBOARD A. PROVIDE A TAP BOX ABOVE THE CEILING AND INTERCEPT ALL BRANCH CIRCUITS AND PANELBOARD FEEDER. EXTEND BRANCH CIRCUITS AND PANELBOARD FEEDER TO NEW LOCATION AND RECONNECT.
10. SECURITY PEDESTAL (ULTRAPOST) PRIMARY UNIT. PROVIDE 120 VOLT CONNECTION TO THIS UNIT ONLY. REFER TO SECURITY LOSS PREVENTION DETAIL ON SHEET E-503.

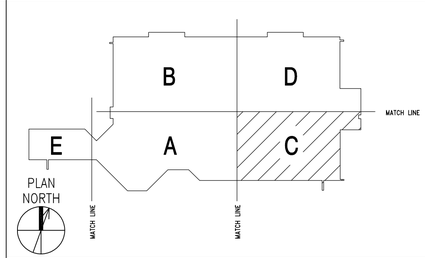
NEW WORK KEYNOTES (CONTINUED)

11. SECONDARY PEDESTAL (ULTRAPOST) SECONDARY UNIT. PROVIDE LOW VOLTAGE INTERCONNECT CABLE TO THIS UNIT ONLY.
12. LOW VOLTAGE INTERCONNECT CABLE IN FLOOR TO THIS UNIT ONLY.
13. TWO #10 & ONE #10 GND IN 1/2"C IN FLOOR.
14. FLUSH MOUNT DOOR CONTACT.

NEW WORK KEYNOTES (SHEET E-111 ONLY)

32. PROVIDE 20A, 1P BREAKER IN EXISTING PANEL "B" FOR WALK-IN COOLER.
33. PROVIDE 20A, 1P BREAKER IN EXISTING PANEL "B" FOR WALK-IN COOLER UNIT COOLER.
34. WALK-IN FREEZER CONDENSER UNIT, LOCATED ON THE ROOF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO UNIT. PROVIDE FOUR #8 & ONE #10 GND IN 3/4" CONDUIT. PROVIDE 40A, 3P CIRCUIT BREAKER IN EXISTING PANELBOARD "NP".
35. WALK-IN COOLER CONDENSER UNIT, LOCATED ON THE ROOF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO UNIT. PROVIDE FOUR #12 & ONE #12 GND IN 1/2" CONDUIT. PROVIDE 15A, 3P CIRCUIT BREAKER IN EXISTING PANELBOARD "NP".
36. TWO #10 AND ONE #10 GND IN 1/2" CONDUIT.
37. INDOOR UNIT DAH-1 POWERED FROM HEAT PUMP OUTDOOR UNIT DHP-1. PROVIDE TWO #12 AND ONE #12 GND IN 1/2" CONDUIT FOR 208 VOLT POWER AND 1/2" CONDUIT WITH PULL STRING FOR 24 VDC CONTROLS.
38. 2P 30/NF NEMA 3R.

KEY PLAN



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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA — S. G. Roberts — Lic. No.10424 — 5-15-14 — PROFESSIONAL ENGINEER

HBA

APPROVED: David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY: CDR MARC BERNATH NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014

DES MED | DRW DJL | CHK SGR

PM/DM RDS/PJB

BRANCH MANAGER jas

CHIEF ENG/ARCH DWG

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR – POWER PLAN – AREA 'C'

SCALE: GRAPHIC

EPROJECT NO. 1305708

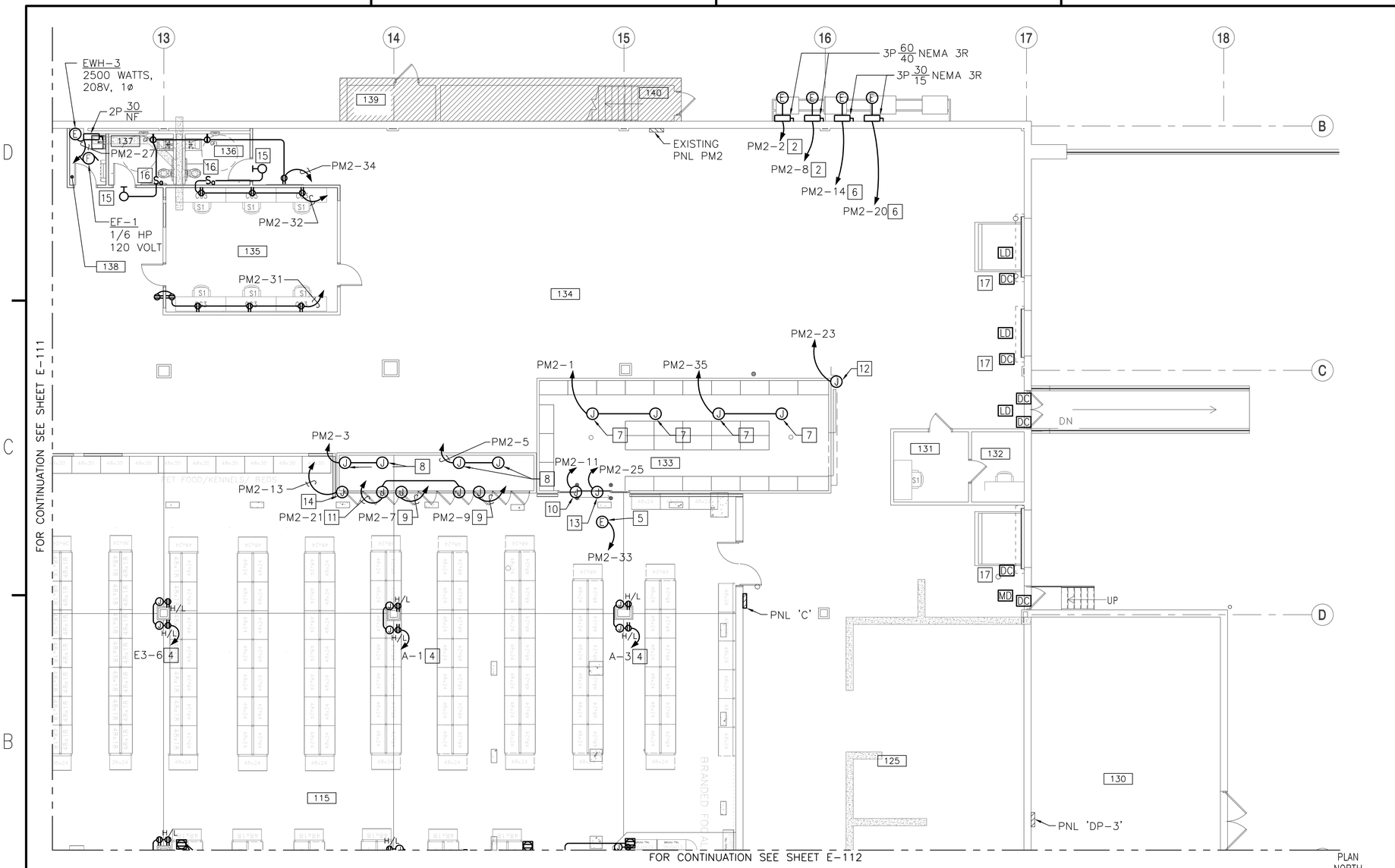
CONSTR. CONTR. NO. N40085-14-C-5203

NAVFAC DRAWING NO. 12667845

SHEET 201 OF 248

E-112

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:05pm USER: dlawson



FIRST FLOOR - POWER PLAN - AREA 'D' [1|3]

1/8" = 1'-0"

NEW WORK KEYNOTES (CONTINUED)

10. WALK-IN BEER COOLER GLASS SLIDING DOOR MOTOR CIRCUIT, 3.5 AMPS 120V, MOUNT JUNCTION BOX 84" AFF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO DOOR ASSEMBLY. PROVIDE 20A CIRCUIT BREAKER IN EXISTING PANELBOARD PM2.

11. REACH-IN COOLER MERCHANDISING LIGHTING CIRCUIT 1 AMP, 120V, MOUNT JUNCTION BOX 96" AFF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO APPLIANCE. PROVIDE 20A CIRCUIT BREAKER IN EXISTING PANELBOARD PM2.

12. WALK-IN BEER CAVE COOLER, 12 AMPS, 120V. MOUNT JUNCTION BOX AT 112" AFF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO APPLIANCE. PROVIDE 20A CIRCUIT IN EXISTING PANELBOARD PM2.

13. WALK-IN BEER COOLER GLASS DOOR HEATER CIRCUIT 5.8 AMPS, 120V. MOUNT JUNCTION BOX 84" AFF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO DOOR ASSEMBLY. PROVIDE 20 AMP CIRCUIT BREAKER IN EXISTING PANELBOARD 'PM2'.

14. REACH-IN BEER COOLER, 8 AMPS, 120V. MOUNT JUNCTION BOX AT 112" AFF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO APPLIANCE. PROVIDE 20 AMP CIRCUIT IN EXISTING PANELBOARD 'PM2'.

15. EMERGENCY CALL SYSTEM ALARM/LIGHT EDWARDS #7007BA-N5 OR APPROVED EQUAL. MOUNT UNIT 6" ABOVE TOP OF DOOR.

16. EMERGENCY CALL SYSTEM PULL SWITCH. SWITCH SHALL BE PROVIDED WITHIN 3'-0" OF THE WATER CLOSET WITH A PULL CORD EXTENDING TO WITHIN 12 INCHES OF THE FLOOR.

17. FLUSH MOUNT DOOR CONTROL.

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES WITH ARCHITECTURAL SHEETS AND CONTRACTING OFFICER, PRIOR TO ROUGH-IN.

2. WALK-IN BEER CAVE CONDENSER UNIT 15.2 AMPS, 208V, 3ø, LOCATED ON THE ROOF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO UNIT. PROVIDE FOUR #10 & ONE #10 GND IN 1/2C. PROVIDE 20A, 3P CIRCUIT BREAKER IN EXISTING PANELBOARD PM2.

3. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR CUTTING AND REPAIRING REQUIREMENTS TO ACCOMMODATE FLOOR BOXES AND CONDUIT.

4. TWO NEMA 5-20R DUPLEX RECEPTACLES MOUNTED HORIZONTALLY AT 2.25" AFF IN COLUMN, AND TWO 4" SQ JUNCTION BOXES WITH BLANK COVER PLATES MOUNTED @ 6" ABOVE CEILING. RECEPTACLES AND JUNCTION BOXES SHALL BE PROVIDED WITH 120 VOLT POWER FROM INDICATED CIRCUIT. LEAVE 6" CAPPED TAILS IN JUNCTION BOXES FOR FUTURE USE BY NEXCOM.

5. DEDICATED POWER SUPPLY FOR CCTV SCREEN AND CAMERA.

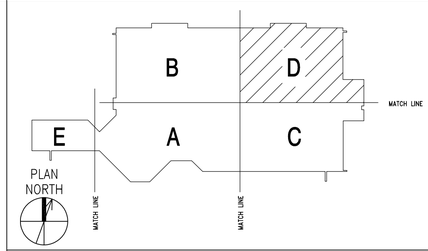
6. REACH-IN COOLER CONDENSER UNIT, LOCATED ON THE ROOF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO UNIT. PROVIDE FOUR #12 & ONE #12 GND IN 1/2" CONDUIT. PROVIDE 20A, 3P CIRCUIT BREAKER IN EXISTING PANELBOARD PM2.

7. WALK-IN BEER CAVE COOLER 4.5 AMPS, 120V, MOUNT JUNCTION BOX 112" AFF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO APPLIANCE. PROVIDE 20A CIRCUIT BREAKER IN EXISTING PANELBOARD PM2.

8. REACH-IN COOLER, MOUNT JUNCTION BOX 96" AFF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO APPLIANCE. PROVIDE 20A CIRCUIT BREAKER IN EXISTING PANELBOARD PM2.

9. REACH-IN COOLER DOOR HEATER 10.6 AMPS, 120V, MOUNT JUNCTION BOX 96" AFF. PROVIDE CIRCUIT IN LIQUID TIGHT CONDUIT TO DOOR HEATER. PROVIDE 20A CIRCUIT BREAKER IN EXISTING PANELBOARD PM2.

KEY PLAN



SYM	DESCRIPTION	DATE	APPR

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY CDR MARC BERNATH NEXCOM - FACILITIES DIVISION
SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR - POWER PLAN - AREA 'D'

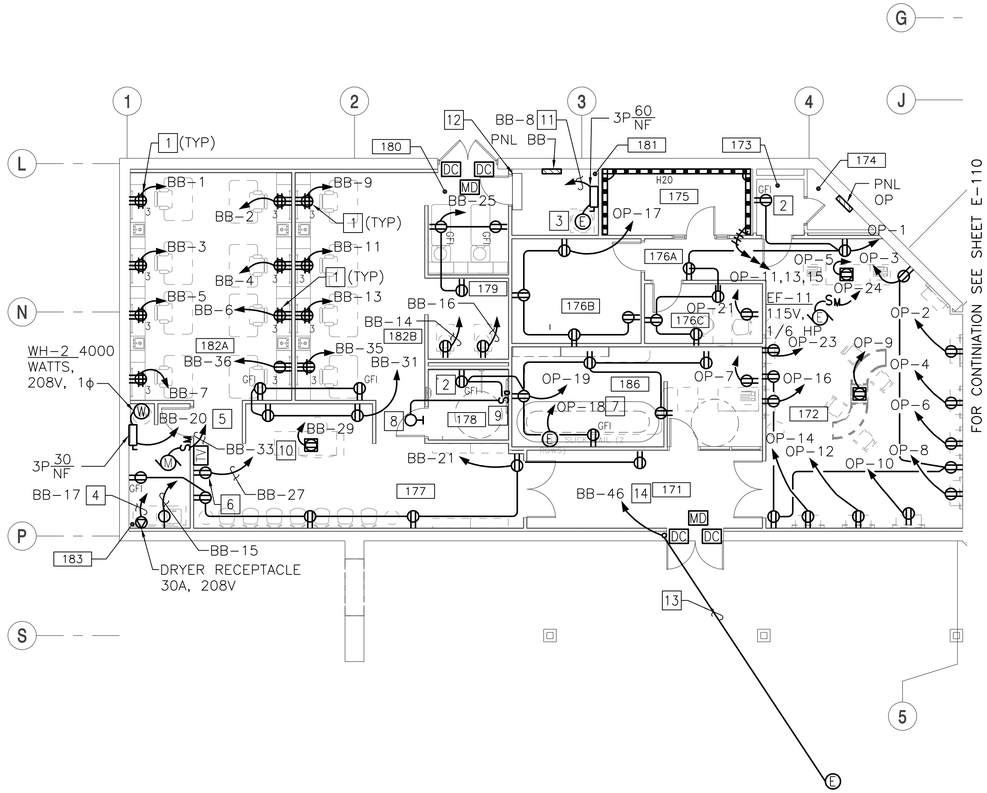
SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667846
SHEET 202 OF 248
E-113

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:06pm USER: dlawson

NEW WORK KEYNOTES (CONTINUATION – THIS SHEET ONLY)

13. PROVIDE TWO #8 AND ONE #8 GND IN 2" PVC UNDERGROUND FROM PYLON SIGN, TRENCH UNDER ENTRY DOOR AND RUN IT UP INSIDE INTERIOR WALL USING 2" RIGID STEEL CONDUIT. PENETRATE WALL ABOVE SUSPENDED CEILING.

14. CONTINUE TWO #8 AND ONE #8 GND IN 1" EMT CONDUIT ABOVE CEILING TO PANELBOARD BB.



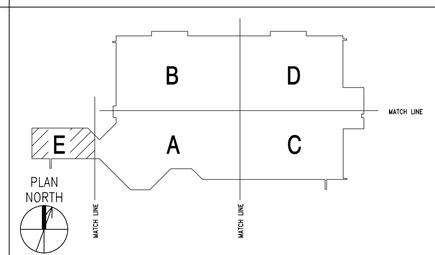
FIRST FLOOR - POWER PLAN - AREA 'E'

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. MOUNT ON CASEWORK FACE. COORDINATE MOUNTING HEIGHT WITH NEXCOM.
2. MOUNTING HEIGHT 44" AFF.
3. VAC-1. 5A, 208V, 3ϕ.
4. DRYER, THREE #10 & ONE #10 GND IN 3/4" CONDUIT.
5. WATER HEATER, WH-2, FOUR #10 & ONE #10 GND IN 3/4" CONDUIT.
6. MOUNT TV AND RECEPTACLE OUTLETS 6' AFF. COORDINATE OUTLET LOCATIONS WITH ROICC, PRIOR TO ROUGH-IN.
7. WH-2, 208V, 4000W, 1ø.
8. EMERGENCY CALL SYSTEM ALARM/LIGHT. EDWARDS #7007BA-N5 OR APPROVED EQUAL. MOUNT UNIT 6" ABOVE TOP OF DOOR.
9. EMERGENCY CALL SYSTEM PULL SWITCH. SWITCH SHALL BE PROVIDED WITHIN 3'-0" OF THE WATER CLOSET WITH A PULL CORD EXTENDING TO WITHIN 12 INCHES OF THE FLOOR.
10. CIRCULATOR PUMP, 120 VOLT.
11. FOUR #10 AND ONE #10 GND IN 3/4" CONDUIT.
12. ABOVE DOOR LOCATION OF DUCTLESS SPLIT SYSTEM INDOOR UNIT POWERED FROM HEAT PUMP OUTDOOR UNIT. PROVIDE TWO #12 AND ONE #12 GND IN 1/2" CONDUIT FOR 208 VOLT POWER AND 1/2" CONDUIT WITH PULL STRING FOR 24 VDC CONTROLS. SEE MECHANICAL ROOF PLAN ON SHEET E-119 FOR HEAT PUMP LOCATION.

KEY PLAN



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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
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BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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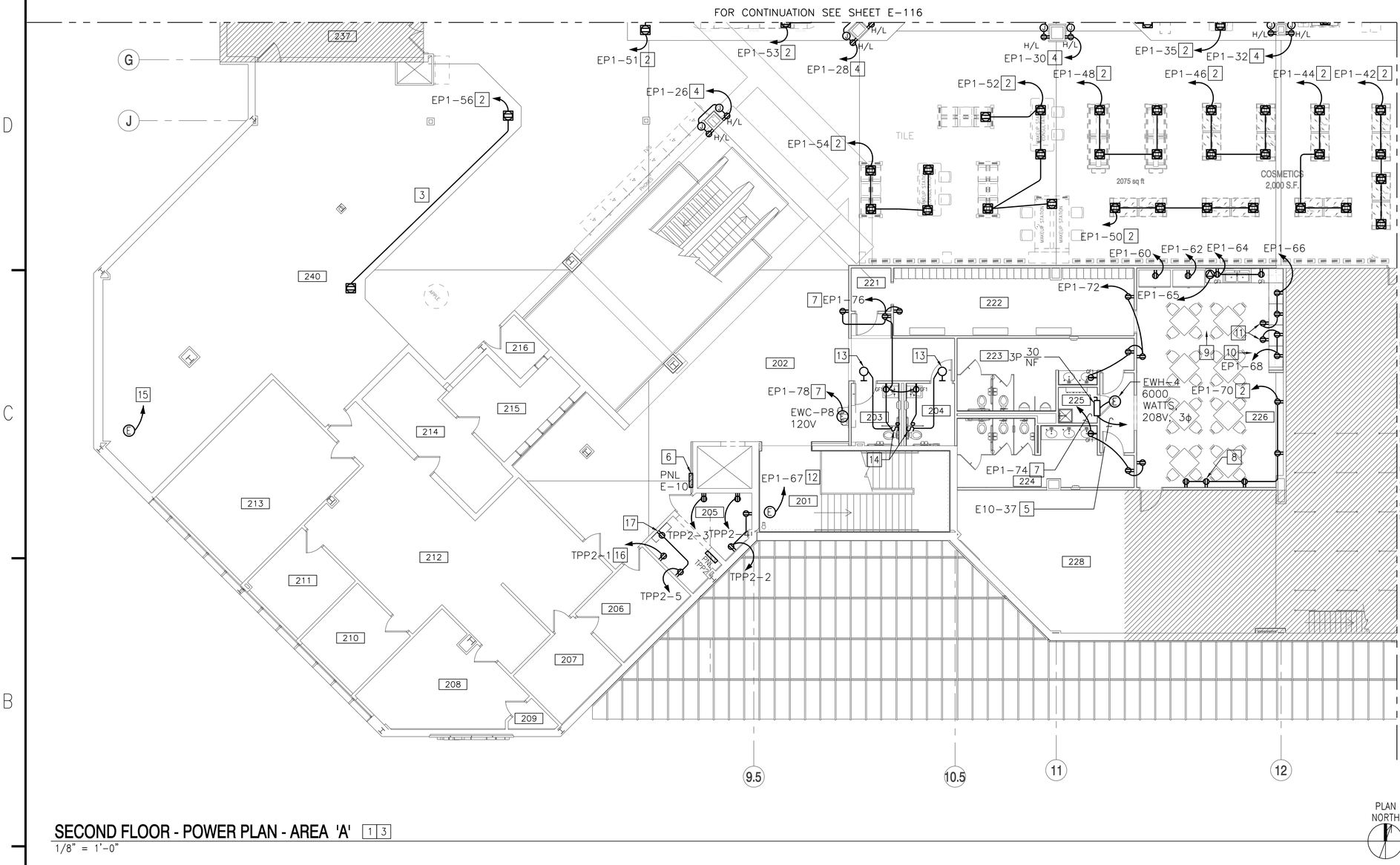
NAVAL STATION – NORFOLK, VIRGINIA
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
FIRST FLOOR – POWER PLAN – AREA 'E'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667847
SHEET 203 OF 248
E-114

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:06pm USER: dlawson



SECOND FLOOR - POWER PLAN - AREA 'A' 1 3

1/8" = 1'-0"

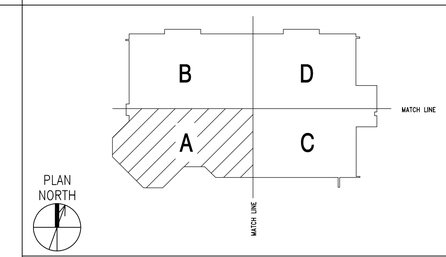
NEW WORK KEYNOTES (CONTINUED)

13. EMERGENCY CALL SYSTEM ALARM/LIGHT EDWARDS #7007BA-N5 OR APPROVED EQUAL. MOUNT UNIT 6" ABOVE TOP OF DOOR.
14. EMERGENCY CALL SYSTEM PULL SWITCH. SWITCH SHALL BE PROVIDED WITHIN 3'-0" OF THE WATER CLOSET WITH A PULL CORD EXTENDING TO WITHIN 12 INCHES OF THE FLOOR.
15. DEDICATED 120 VOLT POWER FOR EXTERIOR CAMERA BY NEXCOM (MOUNT HIGH AS POSSIBLE).
16. RECEPTACLE FOR RACK SHALL BE WHIP MOUNTED FROM CEILING.
17. INDOOR UNIT DAH-2 POWERED FROM HEAT PUMP OUTDOOR UNIT DHP-2. PROVIDE TWO #12 AND ONE #12 GND IN 1/2" CONDUIT FOR 208 COLT POWER AND 1/2" CONDUIT WITH PULL STRING FOR 24 VDC CONTROLS. SEE MECHANICAL ROOF PLAN ON SHEET E-119 FOR HEAT PUMP LOCATION.

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES WITH ARCHITECTURAL SHEETS AND CONTRACTING OFFICER, PRIOR TO ROUGH-IN.
2. TWO #10 AND ONE #10 GND IN 1/2" CONDUIT. CORE DRILL FLOOR AND RUN CONDUIT WITH WIRING AT FIRST FLOOR CEILING. CORE DRILL CEILING AND TURN UP CONDUIT WITH WIRING TO PANELBOARD.
3. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR CUTTING AND REPAIRING REQUIREMENTS TO ACCOMMODATE FLOOR BOXES AND CONDUIT.
4. TWO NEMA 5-20R DUPLEX RECEPTACLES MOUNTED HORIZONTALLY AT 2.25" AFF IN COLUMN, AND TWO 4" SQ JUNCTION BOXES WITH BLANK COVER PLATES MOUNTED @ 6" ABOVE CEILING. RECEPTACLES AND JUNCTION BOXES SHALL BE PROVIDED WITH 120 VOLT POWER FROM INDICATED CIRCUIT. LEAVE 6" CAPPED TAILS IN JUNCTION BOXES FOR FUTURE USE BY NEXCOM.
5. FOUR #10 & ONE #10 GND IN 1/2" CONDUIT.
6. LOCATION FOR NEW PANEL E10. PROVIDE A TAP BOX ABOVE THE CEILING IN ROOM 205 AND INTERCEPT ALL BRANCH CIRCUITS. EXTEND EXISTING CIRCUITS TO NEW PANEL LOCATION AND RECONNECT. PROVIDE A TAP BOX ABOVE THE FIRST FLOOR CEILING AND INTERCEPT PANEL BOARD FEEDER. EXTEND FEEDER UP AND RECONNECT.
7. TWO #10 & ONE #10 GND IN 1/2" CONDUIT.
8. MOUNT RECEPTACLE FOR TV AT 72" AFF.
9. SEE EMPLOYEE LOUNGE ELEVATION - ROOM 226-A, SHEET E-301.
10. SEE EMPLOYEE LOUNGE ELEVATION - ROOM 226-B, SHEET E-301.
11. MOUNT RECEPTACLE AT 24" AFF.
12. DEDICATED POWER SUPPLY FOR CCTV CAMERA.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

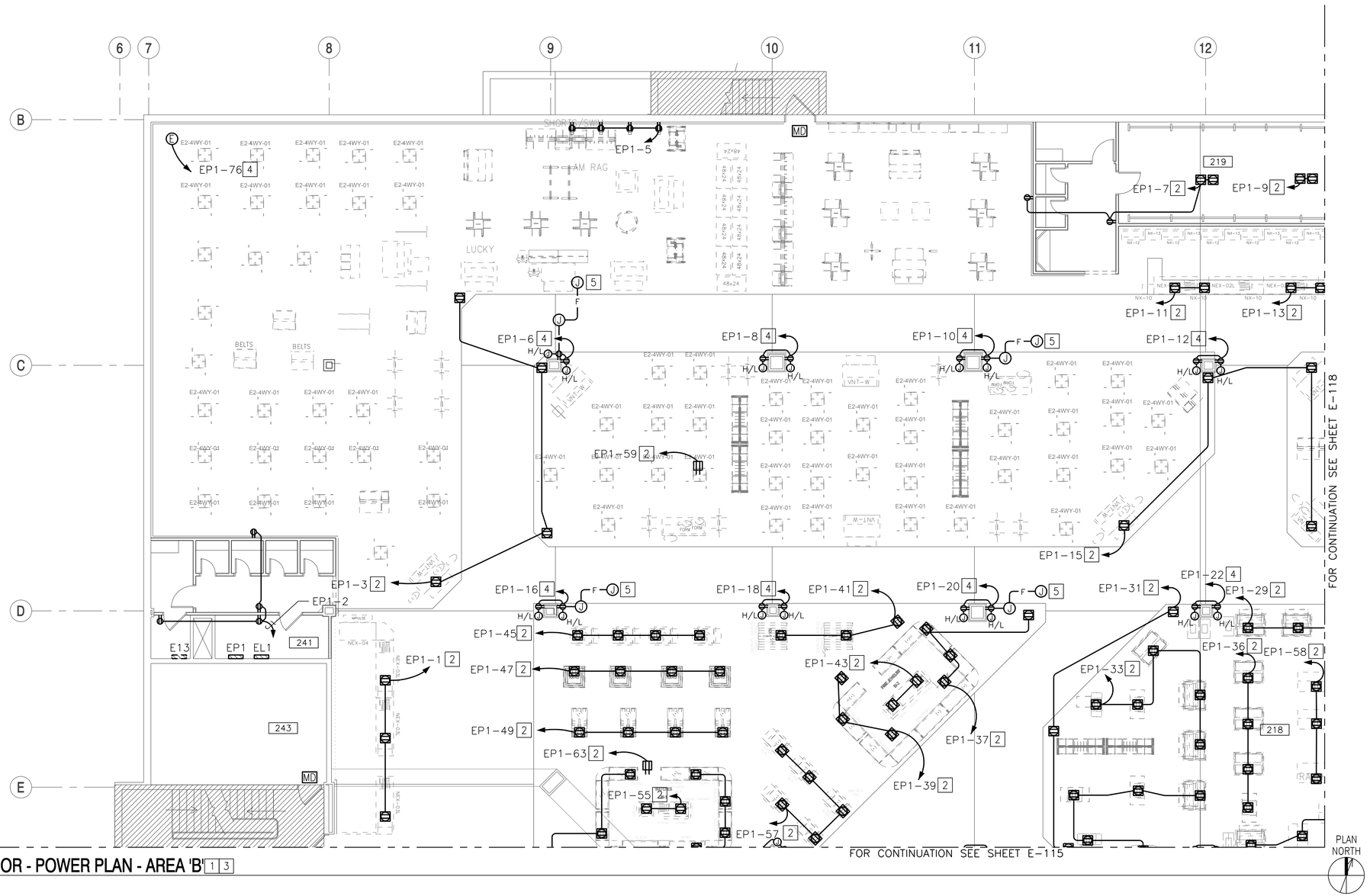
ACTIVITY
CDR MARC BERNATH
NEXCOM - FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NE IPT
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION - NORFOLK, VIRGINIA
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
SECOND FLOOR - POWER PLAN - AREA 'A'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667848
SHEET 204 OF 248
E-115

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:06pm USER: dlawson



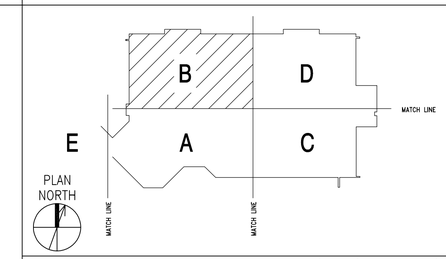
SECOND FLOOR - POWER PLAN - AREA 'B' 1 3

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES WITH ARCHITECTURAL SHEETS AND CONTRACTING OFFICER, PRIOR TO ROUGH-IN.
2. TWO #10 AND ONE #10 GND IN 1/2" CONDUIT. CORE DRILL FLOOR AND RUN CONDUIT WITH WIRING AT FIRST FLOOR CEILING. CORE DRILL CEILING AND TURN UP CONDUIT WITH WIRING TO PANELBOARD.
3. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR CUTTING AND REPAIRING REQUIREMENTS TO ACCOMMODATE FLOOR BOXES AND CONDUIT.
4. TWO NEMA 5-20R DUPLEX RECEPTACLES MOUNTED HORIZONTALLY AT 2.25" AFF IN COLUMN, AND TWO 4" SQ JUNCTION BOXES WITH BLANK COVER PLATES MOUNTED @ 6" ABOVE CEILING. RECEPTACLES AND JUNCTION BOXES SHALL BE PROVIDED WITH 120 VOLT POWER FROM INDICATED CIRCUIT. LEAVE 6" CAPPED TAILS IN JUNCTION BOXES FOR FUTURE USE BY NEXCOM.
5. MOUNT 4" SQ JUNCTION BOX W/BLANK COVER PLATE ABOVE CEILING AND EXTEND 120 VOLT POWER FROM RECEPTACLE BELOW. PROVIDE JUNCTION BOX WITH TWO #10 AND ONE #10 GND - 1/2"C. FLEXIBLE WHIP AND TERMINATE ON A 4" SQ JUNCTION BOX. LEAVE 6" CAPPED TAILS IN BOX FOR FUTURE USE BY NEXCOM.
6. DEDICATED 120 VOLT POWER FOR EXTERIOR CAMERA BY NEXCOM (MOUNT HIGH AS POSSIBLE).
7. TWO #10 & ONE #10 GND IN 1/2" CONDUIT.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA — S. G. Roberts — Lic. No.10424 — 5-15-15 — PROFESSIONAL ENGINEER

HBA

APPROVED David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY: CDR MARC BERNATH, NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014

DES MED DRW DJL CHK SGR

PM/DM RDS/PJB

BRANCH MANAGER

CHIEF ENG/ARCH DWG

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND — NAVAL FACILITIES ENGINEERING COMMAND — NAVAL STATION – NORFOLK, VIRGINIA

NE IPT — SUBASE NEW LONDON — GROTON, CT

BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION

SECOND FLOOR – POWER PLAN – AREA 'B'

SCALE: GRAPHIC

EPROJECT NO. 1305708

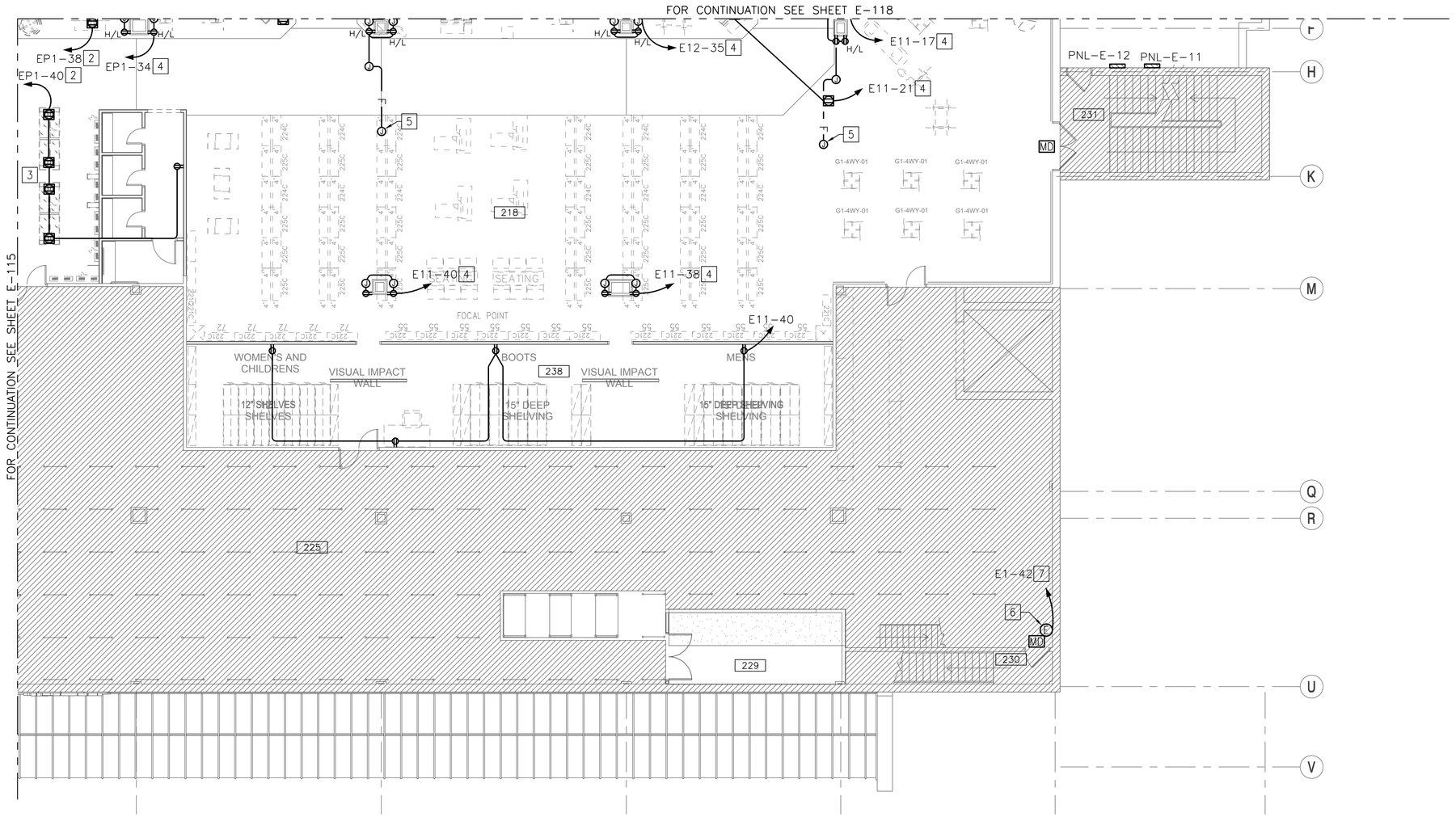
CONSTR. CONTR. NO. N40085-14-C-5203

NAVFAC DRAWING NO. 12667849

SHEET 205 OF 248

E-116

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:06pm USER: dlawson



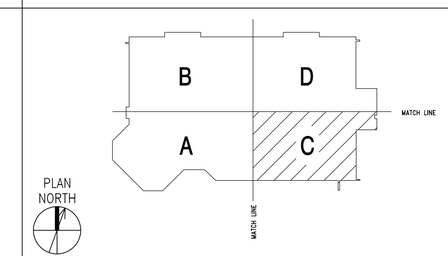
SECOND FLOOR - POWER PLAN - AREA 'C' [1] [3]

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES WITH ARCHITECTURAL SHEETS AND CONTRACTING OFFICER, PRIOR TO ROUGH-IN.
2. TWO #10 AND ONE #10 GND IN 1/2" CONDUIT. RUN CONDUIT TO NEAREST COLUMN/WALL AND TURN UP TO ABOVE CEILING.
3. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR CUTTING AND REPAIRING REQUIREMENTS TO ACCOMMODATE FLOOR BOXES AND CONDUIT.
4. TWO NEMA 5-20R DUPLEX RECEPTACLES MOUNTED HORIZONTALLY AT 2.25" AFF IN COLUMN, AND TWO 4" SQ JUNCTION BOXES WITH BLANK COVER PLATES MOUNTED @ 6" ABOVE CEILING. RECEPTACLES AND JUNCTION BOXES SHALL BE PROVIDED WITH 120 VOLT POWER FROM INDICATED CIRCUIT. LEAVE 6" CAPPED TAILS IN JUNCTION BOXES FOR FUTURE USE BY NEXCOM.
5. MOUNT 4" SQ JUNCTION BOX WITH BLANK COVER PLATE ABOVE CEILING AND EXTEND 120V, POWER FROM RECEPTACLE BELOW. PROVIDE JUNCTION BOX WITH 2 #10 AND 1 #10 GND IN 1/2" C. FLEXIBLE WHIP AND TERMINATE ON A 4" SQ JUNCTION BOX. LEAVE 6" CAPPED TALKS IN BOX FOR FUTURE USE BY NEXCIM.
6. DEDICATED 120 VOLT POWER FOR EXTERIOR CAMERA BY NEXCOM (MOUNT HIGH AS POSSIBLE).
7. TWO #10 & ONE #10 GND IN 1/2" CONDUIT.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
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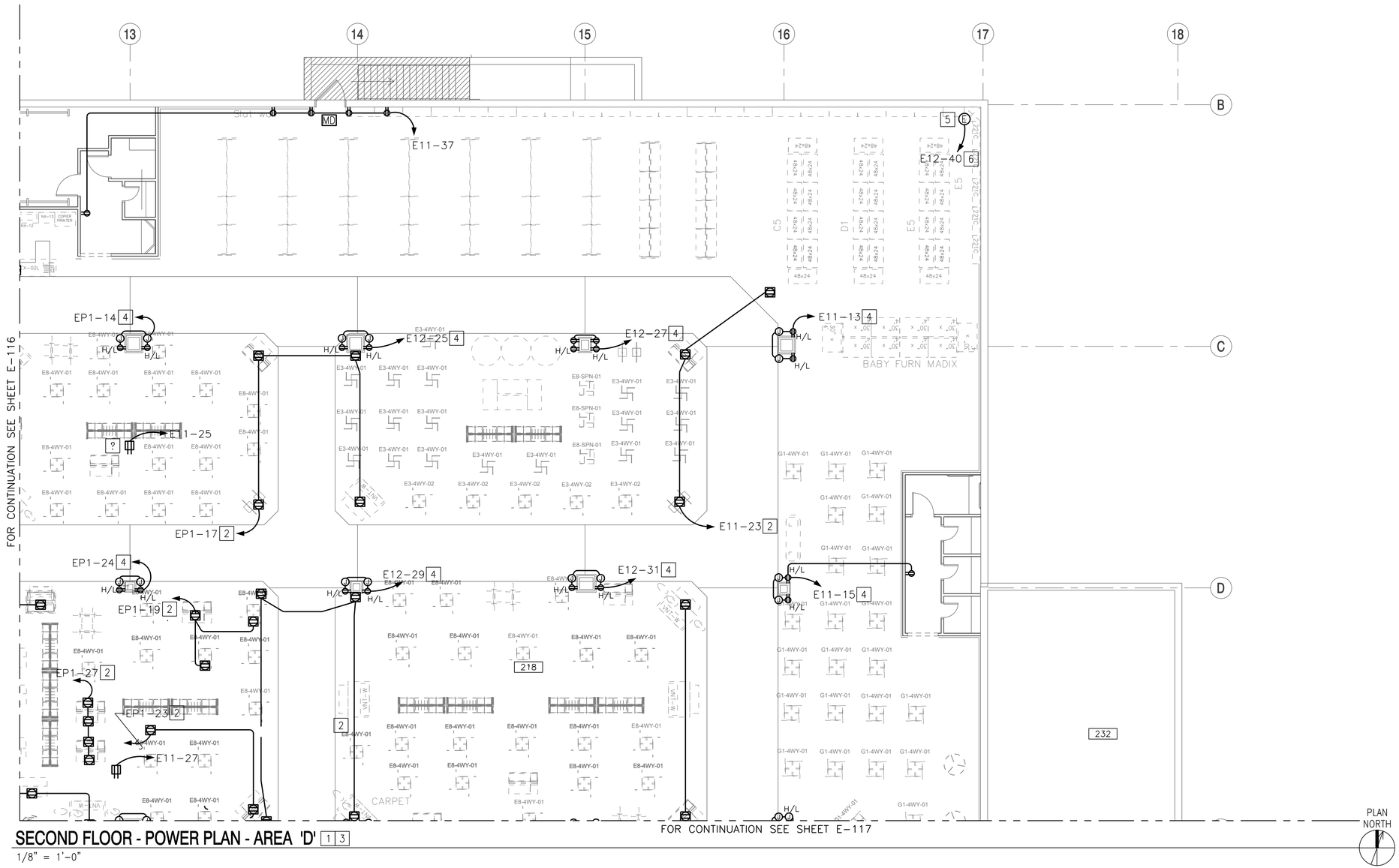
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NAVAL STATION – GROTON, CT
NE IPT
SUBASE NEW LONDON
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
SECOND FLOOR – POWER PLAN – AREA 'C'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667850
SHEET 206 OF 248
E-117

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:06pm USER: dlawson



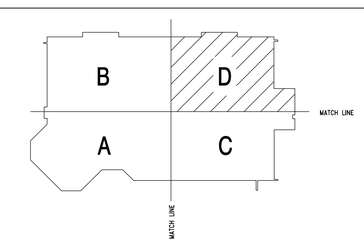
SECOND FLOOR - POWER PLAN - AREA 'D' [1] [3]

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES WITH ARCHITECTURAL SHEETS AND CONTRACTING OFFICER, PRIOR TO ROUGH-IN.
2. TWO #10 AND ONE #10 GND IN 1/2" CONDUIT. CORE DRILL FLOOR AND RUN CONDUIT WITH WIRING AT FIRST FLOOR CEILING. CORE DRILL CEILING AND TURN UP CONDUIT WITH WIRING TO PANELBOARD.
3. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR CUTTING AND REPAIRING REQUIREMENTS TO ACCOMMODATE FLOOR BOXES AND CONDUIT.
4. TWO NEMA 5-20R DUPLEX RECEPTACLES MOUNTED HORIZONTALLY AT 2.25" AFF IN COLUMN, AND TWO 4" SQ JUNCTION BOXES WITH BLANK COVER PLATES MOUNTED @ 6" ABOVE CEILING. RECEPTACLES AND JUNCTION BOXES SHALL BE PROVIDED WITH 120 VOLT POWER FROM INDICATED CIRCUIT. LEAVE 6" CAPPED TAILS IN JUNCTION BOXES FOR FUTURE USE BY NEXCOM.
5. DEDICATED 120 VOLT POWER FOR EXTERIOR CAMERA BY NEXCOM (MOUNT HIGH AS POSSIBLE).
6. TWO #10 & ONE #10 GND IN 1/2" CONDUIT.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

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FOR COMMANDER NAVFAC

ACTIVITY: CDR MARC BERNATH NEXCOM - FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
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BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

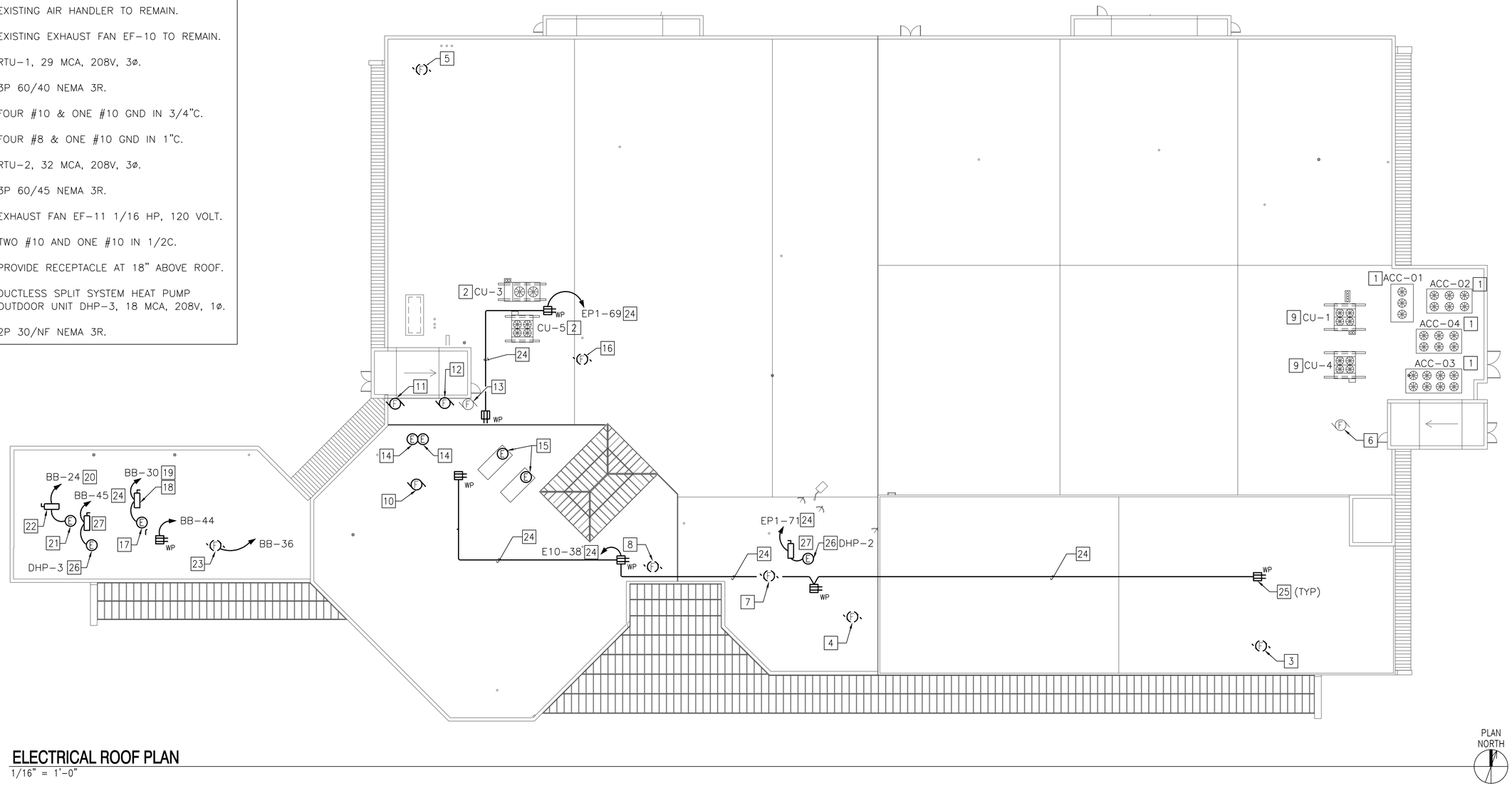
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
SECOND FLOOR - POWER PLAN - AREA 'D'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667851
SHEET 207 OF 248
E-118

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:07pm USER: dlawson

NEW WORK KEYNOTES (CONTINUED)

15. EXISTING AIR HANDLER TO REMAIN.
16. EXISTING EXHAUST FAN EF-10 TO REMAIN.
17. RTU-1, 29 MCA, 208V, 3ø.
18. 3P 60/40 NEMA 3R.
19. FOUR #10 & ONE #10 GND IN 3/4"C.
20. FOUR #8 & ONE #10 GND IN 1"C.
21. RTU-2, 32 MCA, 208V, 3ø.
22. 3P 60/45 NEMA 3R.
23. EXHAUST FAN EF-11 1/16 HP, 120 VOLT.
24. TWO #10 AND ONE #10 IN 1/2C.
25. PROVIDE RECEPTACLE AT 18" ABOVE ROOF.
26. DUCTLESS SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT DHP-3, 18 MCA, 208V, 1ø.
27. 2P 30/NF NEMA 3R.



ELECTRICAL ROOF PLAN

1/16" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. EXISTING ROOF TOP AIR COOLED CONDENSERS TO BE REMOVED BY DECA. PRIOR TO CONSTRUCTION.
2. EXISTING CU-3 AND CU-5 TO REMAIN.
3. EXISTING EXHAUST FAN EF-2 DISCONNECT EXISTING 1/2 HP, 208V, 3ø CIRCUIT AND RECONNECT NEW FAN TO EXISTING CIRCUIT.
4. EXISTING EXHAUST FAN EF-3 DISCONNECT EXISTING 1/2 HP, 208V, 3ø CIRCUIT AND REMOVE BACK TO SOURCE.
5. EXISTING EXHAUST FAN EF-6 DISCONNECT EXISTING 1/2 HP, 208V, 3ø CIRCUIT AND REMOVE BACK TO SOURCE.
6. EXISTING EXHAUST FAN EF-7 TO REMAIN.
7. EXISTING EXHAUST FAN EF-8 DISCONNECT EXISTING 1/8 HP, 115V, CIRCUIT AND RECONNECT NEW FAN TO EXISTING CIRCUIT.
8. EXISTING EXHAUST FAN EF-9 DISCONNECT EXISTING 1/4 HP, 115V, CIRCUIT AND RECONNECT NEW FAN TO EXISTING CIRCUIT.
9. EXISTING CU-1 AND CU-4 TO REMAIN.
10. EXISTING EXHAUST FAN EF-12 DISCONNECT EXISTING 1/4 H.P. 120 VOLT CIRCUIT AND REMOVE BACK TO SOURCE.
11. EXISTING EXHAUST FAN EF-1 DISCONNECT EXISTING 1/6 H.P. 120 VOLT CIRCUIT AND RECONNECT NEW FAN.
12. EXISTING EXHAUST FAN EF-4 DISCONNECT EXISTING 2 H.P. 208V 3ø, CIRCUIT AND REMOVE BACK TO SOURCE.
13. EXISTING EXHAUST FAN EF-5 TO REMAIN.
14. EXISTING CONDENSER UNIT TO REMAIN.

GRAPHIC SCALE

1/16"=1'-0" 0' 5' 10' 20' 30' 40' 50' 60'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
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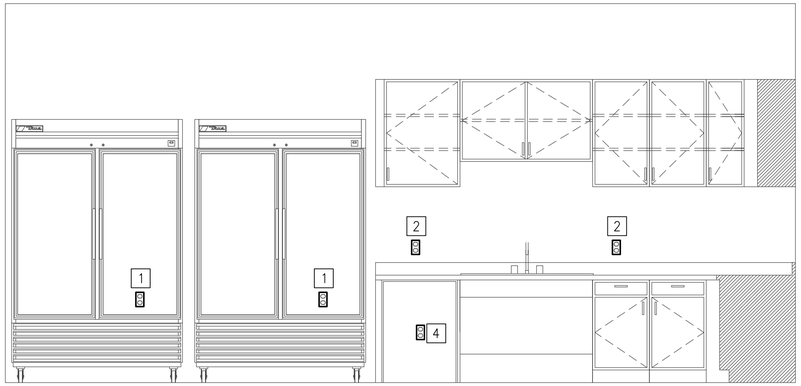
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
ELECTRICAL ROOF PLAN

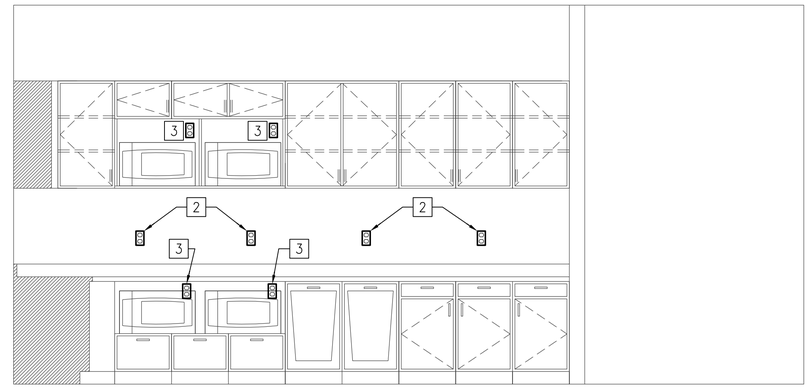
SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667852
SHEET 208 OF 248
E-119

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:07pm USER: dlawson



EMPLOYEE LOUNGE
ELEVATION - ROOM 226 - A

SCALE: 1/2" = 1'-0"



EMPLOYEE LOUNGE
ELEVATION - ROOM 226 - B

SCALE: 1/2" = 1'-0"

KEYNOTES (THIS SHEET ONLY)

1. RECEPTACLE FOR REFRIGERATOR NEMA 5-20R MOUNTED AT 24" AFF.
2. COUNTER TOP RECEPTACLES NEMA 5-20R MOUNTED AT 6" ABOVE COUNTER TOP.
3. MICROWAVE RECEPTACLE NEMA 5-20R. VERIFY MOUNTING HEIGHT WITH CASEWORK.
4. DISHWASHER RECEPTACLE NEMA 5-20R MOUNTED AT 18" AFF.

KEY PLAN

1/2"=1'-0" 1' 0' 1' 2' 3' 4' 5'

SYM	DESCRIPTION	DATE	APPR

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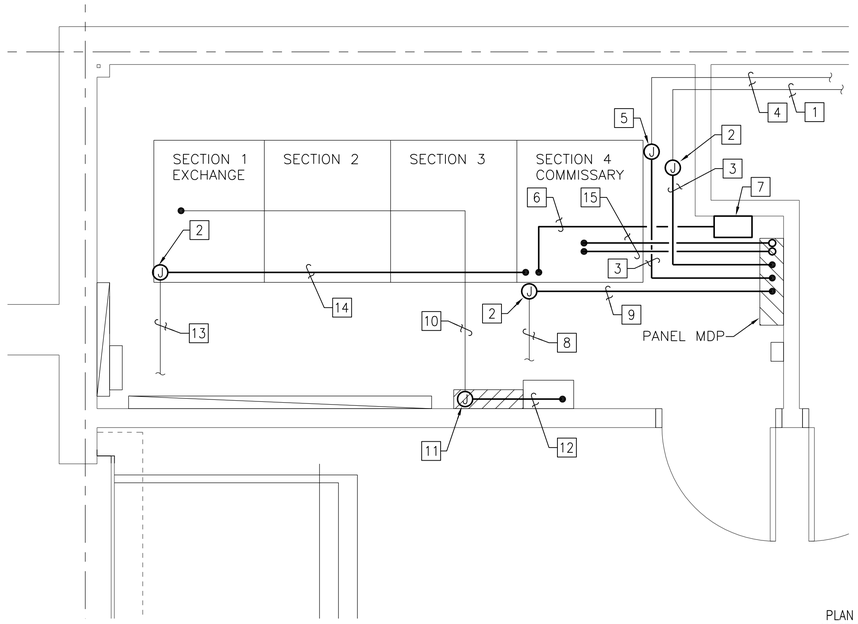
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION - NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
EMPLOYEE LOUNGE ELEVATIONS

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667853
SHEET 209 OF 248
E-301

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:07pm USER: dlawson



ENLARGED ELECTRICAL ROOM PLAN

SCALE: 1/2" = 1'-0"

PLAN NORTH

KEYNOTES (THIS SHEET ONLY)

1. RUN FOUR #6 AND ONE #10 GND FEEDER IN EXISTING CONDUIT TO PANEL IN VENDING OFFICE.
2. JUNCTION BOX TO EXTEND EXISTING FEEDER CIRCUIT.
3. RUN FOUR #6 AND ONE #10 GROUND IN 1" CONDUIT FROM JUNCTION BOX TO PANEL MDP.
4. RUN FOUR #6 AND ONE #10 GND BRANCH CIRCUIT IN EXISTING CONDUIT TO MECHANICAL UNIT FOR VENDING OFFICE.
5. JUNCTION BOX TO EXTEND EXISTING BRANCH CIRCUIT.
6. RUN FOUR #8 AND ONE #10 GROUND IN 3/4" CONDUIT FROM NEW 30A/3P CIRCUIT BREAKER IN SECTION 4 TO THE RELOCATED SURGE PROTECTION DEVICE.
7. NEW LOCATION FOR SURGE PROTECTION DEVICE.
8. EXISTING FEEDER CIRCUIT TO PANEL NP.
9. RUN FOUR 500 KCMIL AND ONE #2 GROUND IN 4" CONDUIT FROM JUNCTION BOX TO PANEL MDP.
10. RUN FOUR #2 AND ONE #6 GROUND IN EXISTING 1 1/2" CONDUIT FROM EXISTING 100A/3P CIRCUIT BREAKER IN SECTION 1 TO THE JUNCTION BOX.
11. JUNCTION BOX TO EXTEND FEEDER CIRCUIT TO LIGHTING CONTACTOR ENCLOSURE.
12. RUN FOUR #2 AND ONE #6 GROUND IN 1 1/2" CONDUIT FROM JUNCTION BOX TO MAIN LUGS OF CONTACTOR IN LIGHTING CONTACTOR ENCLOSURE.
13. EXISTING FEEDER CIRCUIT TO FITTING ROOM PANEL.
14. RUN FOUR #3/0 AND ONE #6 IN 2" CONDUIT FROM JUNCTION BOX TO NEW 200A/3P CIRCUIT BREAKER #2 IN SECTION 4.
15. RUN (2 SETS) FOUR #350 KCMIL AND ONE #2 GROUND IN 3" CONDUIT FROM NEW 600A/3P CIRCUIT BREAKER IN SECTION 4 TO PANEL MDP.

GRAPHIC SCALE

1/2"=1'-0" 1' 0' 1' 2' 3' 4' 5'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

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NEXCOM – FACILITIES DIVISION

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FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
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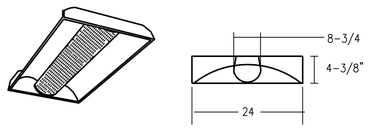
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
ENLARGED ELECTRICAL ROOM PLAN

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667854
SHEET 210 OF 248
E-401

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:07pm USER: dlawson



LUMINAIRE REQUIREMENTS:

CONSTRUCTION — RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT-MODIFIED, SINGLE CLEAR ACRYLIC DIFFUSER PROVIDES EXCELLENT SHIELDING AND WIDE DISTRIBUTION. END PLATES INCLUDE INTEGRAL T-BAR CLIPS.

OPTICS — VOLUMETRIC ILLUMINATION IS ACHIEVED BY CREATING AN OPTIMAL MIX OF LIGHT TO WALLS, PARTITIONS, VERTICAL AND HORIZONTAL WORK SURFACES. SLOPED END PLATES PROVIDE A SMOOTH, LUMINOUS TRANSITION BETWEEN FIXTURE AND CEILING WHILE ENHANCING THE PERCEPTION OF FIXTURE DEPTH.ADVANCED OPTICAL FILM PROVIDES SUPERIOR LED CONCEALMENT AND EVEN ILLUMINATION ACROSS THE DIFFUSER.

ELECTRICAL — LONG-LIFE LEDS, COUPLED WITH HIGH-EFFICIENCY DRIVERS, PROVIDE SUPERIOR QUANTITY AND QUALITY OF ILLUMINATION FOR EXTENDED SERVICE LIFE. VTLED IS RATED TO DELIVER L80 PERFORMANCE FOR 50,000 HOURS. STANDARD NLIGHT™ EMBEDDED CONTROLS MAKE EACH LUMINAIRE ADDRESSABLE – ALLOWING IT TO DIGITALLY COMMUNICATE WITH OTHER NLIGHT ENABLED CONTROLS SUCH AS DIMMERS, SWITCHES, OCCUPANCY SENSORS AND PHOTOCONTROLS. SIMPLY CONNECT ALL THE NLIGHT ENABLED CONTROL DEVICES AND THE VTLED LUMINAIRES USING STANDARD CAT-5 CABLING. LUMEN MANAGEMENT: UNIQUE LUMEN MANAGEMENT SYSTEM (OPTION N80) PROVIDES ONBOARD INTELLIGENCE THAT ACTIVELY MANAGES THE LED LIGHT SOURCE SO THAT CONSTANT LUMEN OUTPUT IS MAINTAINED OVER THE SYSTEM LIFE, PREVENTING THE ENERGY WASTE CREATED BY THE TRADITIONAL PRACTICE OF OVER-LIGHTING.LED ACCUDRIVE ™ DRIVER DELIVERS FULL-RANGE DIMMING FROM 0-10V CONTROL SIGNAL.DRIVER DISCONNECT PROVIDED WHERE REQUIRED TO COMPLY WITH US AND CANADIAN CODES.

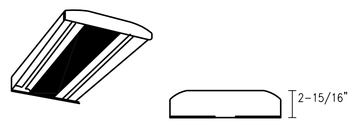
INSTALLATION — UNIQUE GRID INTERFACING ARRANGEMENT PROVIDES MOUNTING INTO STANDARD 1" AND 9/16" TEE BAR OR SCREW SLOT GRIDS. 9/16" ALLOWS FIXTURE TRIM TO HANG LEVEL WITH ARCHITECTURAL CEILING TILES.

LISTINGS — CSA CERTIFIED TO MEET U.S. AND CANADIAN STANDARDS. PATENTS PENDING.DLC CERTIFIED TEST TO LM80 STANDINGS.

WARRANTY — 5-YEAR LIMITED WARRANTY.

DIRECT/INDIRECT RECESSED 2' X 4' LED

A



LUMINAIRE REQUIREMENTS:

CONSTRUCTION–DIE–FORMED ALUMINUM ALLOY CHASSIS WITH INTEGRATED FINS FOR SUPERIOR COOLING THROUGH NATURAL CONVECTION. THE CHANNEL IS MADE OF HEAVY–DUTY CODE GAUGE (20–GAUGE) STEEL WHICH IS POWDER COATED AFTER FABRICATION. THE ASSEMBLY IS RIDGIDLY DESIGNED TO RESIST TWISTING AND BOWING. ACCESS PLATE ON THE BACK OF THE CHANNEL HOUSING ALLOWS QUICK AND EASY WIRING.

OPTICS–NARROW AND WIDE DISTRIBUTIONS AVAILABLE TO MEET BOTH HORIZONTAL AND VERTICAL LIGHT LEVEL REQUIREMENTS. REFLECTORS FEATURE PRECISION–FORMED OPTICS UTILIZING REFLECTIVE ALANOD® MIRO–5® SPECULAR–ALUMINUM.

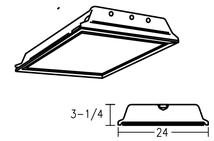
ELECTRICAL–89% LUMEN MAINTENANCE AT 60,000 HOURS; THERMALLY PROTECTED DRIVER(S) STANDARD WITH 0–10V DIMMING.

LISTINGS–CSA CERTIFIED TO U.S. AND CANADIAN SAFETY STANDARDS. SUITABLE FOR AMBIENT TEMPERATURES FROM –40°F (–40°C) TO 131°F (55°C). PATENT PENDING.

WARRANTY–FIVE–YEAR LIMITED WARRANTY.

I BEAM LED

B

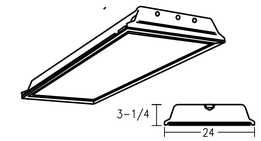


LUMINAIRE REQUIREMENTS:

1. CONSTRUCTION – SMOOTH HEMMED SIDES AND SMOOTH INWARD FORMED END FLANGES FOR SAFE HANDLING. LIGHTER–WEIGHT FIXTURE ALLOWS FOR SAFE, EASY INSTALLATION.
2. OPTICS–HIGHLY TRANSMISSIVE PATTERN #12 LENS, 0.125" THICK DIFFUSES LIGHT SOURCE WITHOUT COMPROMISING OUTPUT.
3. ELECTRICAL–LONG–LIFE LEDS, COUPLED WITH HIGH–EFFICIENCY DRIVERS, PROVIDE EXTENDED SERVICE LIFE. 2GTL IS RATED TO DELIVER L70 PERFORMANCE AT 50,000 HOURS. LED ACCUDRIVE DRIVER, DELIVERS FULL RANGE DIMMING FROM 0–10V
4. LISTINGS–CSA CERTIFIED TO U.S. AND CANADIAN STANDARDS. DAMP LISTED. DESIGNLIGHTS CONSORTIUM (DLC) QUALIFIED PRODUCT. NOT ALL VERSIONS OF THIS PRODUCT MAY BE DLC QUALIFIED. PLEASE CHECK THE DLC QUALIFIED PRODUCTS LIST AT WWW.DESIGNLIGHTS.ORG/QPL TO CONFIRM WHICH VERSIONS ARE QUALIFIED.

RECESSED 2' X 2' LED TROFFER

C



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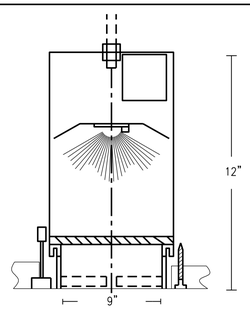
RECESSED 2' X 4' LED TROFFER

D

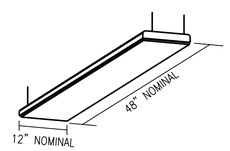


LUMINAIRE REQUIREMENTS:

1. HOUSING – ONE–PIECE, DIE–STAMPED, COLD ROLLED STEEL OR ACRYLIC–ENAMELED ALUMINUM. PROVIDE WITH PRE–WIRED JUNCTION BOX HAVING SNAP–ON ACCESS COVER. ACCESS TO JUNCTION BOX FROM BELOW CEILING SHALL BE PROVIDED THROUGH FIXTURE AFTER REMOVAL OF REFLECTOR.
2. REFLECTOR AND TRIM – ONE–PIECE, CLEAR, SPUN ALUMINUM, IRIDESCENCE–SUPPRESSED, WITH PAINTED WHITE SELF TRIM. OTHER FINISHES AND TYPES AVAILABLE. SEE LIGHTING FIXTURE SCHEDULE.
3. ELECTRICAL–LONG–LIFE LEDS, COUPLED WITH HIGH–EFFICIENCY DRIVERS, PROVIDE EXTENDED SERVICE LIFE. EVO IS RATED TO DELIVER L70 PERFORMANCE AT 50,000 HOURS. LED ACCUDRIVE DRIVER, DELIVERS FULL RANGE DIMMING FROM 0–10V
5. CERTIFICATION – UL LISTED AND LABELED.

RECESSED LED DOWNLIGHT

E

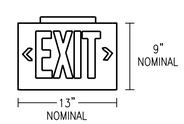


LUMINAIRE REQUIREMENTS:

1. THE HIGH QUALITY ALUMINUM HOUSING EMPHASIZES THE BRILLIANCE OF THE OPTICAL SYSTEM.
2. OPTIC – THE MICRO–PYRAMIDAL OPTIC IS PRECISELY ADJUSTED TO THE BEAM PATTERN OF THE LED LIGHT POINTS, GUARANTEEING PERFECT GLARE CONTROL AND UNIFORMITY
3. HIGH–PERFORMANCE REFLECTOR – DUE TO INTELLIGENT REFLECTOR TECHNOLOGY AND OPTIMIZATION, THE LUMINAIRE BOASTS EXCELLENT EFFICIENCY.
.4. LED POWER – THE LUMINOUS POWER OF EACH LED IS USED FOR MAXIMUM IMPACT, LUMINAIRE MEETS AND EXCEEDS ALL REQUIREMENTS FOR SUCH A FIXTURE HAVING A SERVICE LIFE OF 50,000 HOURS AT L70 ALSO KEEPS MAINTENANCE COST DOWN.

SURFACE/SUSPANDED LED

F

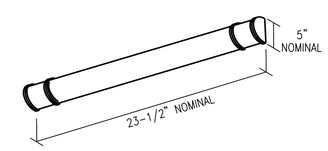


LUMINAIRE REQUIREMENTS:

1. HOUSING – DIE–CAST ALUMINUM OR HIGH–IMPACT, UV–STABILIZED, INJECTION–MOLDED THERMOPLASTIC. SINGLE OR DOUBLE–FACED AS INDICATED.
2. FINISH (ON CAST ALUMINUM HOUSING ONLY) – TEXTURED POWDER COAT FINISH OPTIONS INCLUDE WHITE, WHITE WITH BRUSHED ALUMINUM FACE, BLACK, OR BLACK WITH BRUSHED ALUMINUM FACE.
3. LETTERS/CHEVRONS – MINIMUM 6" HIGH WITH 3/4" STROKE. RED OR GREEN LETTERS AS INDICATED. PROVIDE CHEVRONS AS INDICATED EITHER LEFT, RIGHT OR BOTH DIRECTIONS AS INDICATED. CHEVRONS PUNCHED OUT THROUGH HOUSING AS REQUIRED.
4. EMERGENCY PACK – SOLID–STATE, CONSTANT–CURRENT TYPE BATTERY CHARGER WITH MAINTENANCE–FREE, NICKEL–CADMIUM BATTERY, AC–ON INDICATOR LAMP AND TEST SWITCH.
5. MOUNTING – UNIVERSAL MOUNTING KIT FOR CEILING, WALL OR END–OF–FIXTURE MOUNTING.
6. ILLUMINATION – PROVIDED BY RED, GREEN OR WHITE HIGH–OUTPUT LEDS INSIDE OF FIXTURE HOUSING. PROVIDE POLYSTYRENE DIFFUSER IN COLOR INDICATED WITH FREQUENCY–MATCHED SILKSCREEN COATING FOR MAXIMUM LED LIGHT OUTPUT.
7. CERTIFICATION – UL LISTED AND CERTIFIED FOR DAMP LOCATIONS.

LED EXIT SIGN

G



LUMINAIRE REQUIREMENTS:

HOUSING – BRUSHED NICKEL FINISH WITH WHITE ACRYLIC DIFFUSER.

NORMAL LIGHTING DISTRIBUTION, 1150 LUMENS, 3000K COLOR TEMPERATURE, CRI 80.

ELECTRICAL: 20 W TOTAL LED. ENERGY EFFICIENT.

CERTIFICATION – UL FOR DAMP LOCATIONS.

LED WALL FIXTURE

H

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NAVAL STATION
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
LIGHTING DETAILS

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667855
SHEET 211 OF 248
E-501

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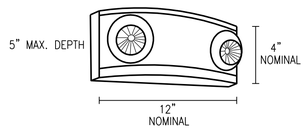
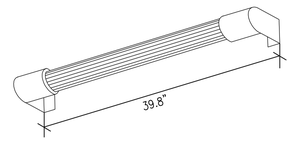


LUMINAIRE REQUIREMENTS:

1. HOUSING – UV STABLE, FLAME-RATED, HIGH-IMPACT THERMOPLASTIC IN WHITE OR BLACK TEXTURED FINISH.
2. INTERNAL COMPONENTS – FULLY AUTOMATIC, SOLID STATE, CONSTANT VOLTAGE, CURRENT-LIMITED BATTERY CHARGER; MAINTENANCE-FREE NICKEL CADMIUM BATTERY; AND BUILT-IN OVERLOAD AND LOW-VOLTAGE BATTERY PROTECTION.
3. EXTERIOR HOUSING INDICATORS – LED AC-ON INDICATOR AND INTEGRAL TEST SWITCH.
4. LAMP HEADS – UV STABLE, FLAME RATED POLYCARBONATE THERMOPLASTIC. LED ENGINE – PROVIDE AS INDICATED IN LIGHTING FIXTURE SCHEDULE.
5. MOUNTING – DIRECTLY TO 4" OCTAGONAL OR SQUARE OUTLET BOX.
6. CERTIFICATION – UL LISTED AND LABELED. COMPLIES WITH UL 924 AND NFPA 101 REQUIREMENTS.
7. OPTIONS – VOLTMETER, VANDEL-RESISTANT SHIELD, SELF-DIAGNOSTIC/TESTING ELECTRONICS AND WIRE GUARD.

DECORATIVE LED EMERGENCY LIGHTING UNIT

I



LUMINAIRE REQUIREMENTS:

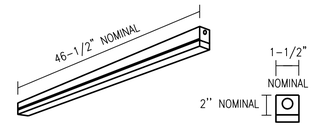
HOUSING – IP66 RATED FIXTURE PER IEC CERTIFIES FIXTURE AS DUST TIGHT AND PROTECTED AGAINST POWERFUL WATER JETS.

ELECTRICAL-LONG-LIFE LEDS PROVIDE EXTENDED SERVICE LIFE. MEET ANSI C78.733 STANDARD. INTEGRAL 24 V DC POWER SUPPLY. PERFORMANCE AT 50,000 HOURS.

CERTIFICATION – UL LISTED AND LABELED FOR WET LOCATIONS.

EXTERIOR LINEAR LED WALL-MOUNTED FIXTURE

J



LUMINAIRE REQUIREMENTS:

HOUSING – ALUMINUM, WHITE COLOR.

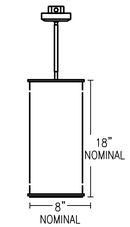
NORMAL LIGHTING DISTRIBUTION, 4000K COLOR TEMPERATURE. TEMPERATURE RANGE -22 TO 77 DEGREE F. CRI 88.

ELECTRICAL-LONG-LIFE LEDS, PROVIDE EXTENDED SERVICE LIFE. MEET ANSI C78.733 STANDARD. . PERFORMANCE AT 50,000 HOURS.

CERTIFICATION – UL AND CSA.

LED STRIP LIGHT

K



LUMINAIRE REQUIREMENTS:

HOUSING – HEAVY-GOUGE ALUMINUM HOUSING, ROLLED AND SEAM-WELDED WITH NO VISIBLE SEAM.

OPTIC – HIGH PERFORMANCE BOUNDING RAY OPTIC.

DRIVER – 2-WIRE FORWARD PHASE DIMMING DRIVER

CERTIFICATION – CSA AND UL LISTED AND LABELED FOR INDOOR LOCATIONS.

PENDANT LED FIXTURE

L

LUMINAIRE REQUIREMENTS:

HOUSING – EXTRUDED ALUMINUM LOCKE IN DESIRE ORIENTATION, ANODIZED FINISH.

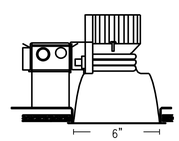
LENS – OPTICAL GRADE CLEAR ACRYLIC.

ELECTRICAL-LONG-LIFE LEDS, PROVIDE EXTENDED SERVICE LIFE. MEET ANSI C78.733 STANDARD. REMOTE 24 V DC POWER SUPPLY REQUIRED. PERFORMANCE AT 50,000 HOURS.

CERTIFICATION – UL LISTED AND LABELED FOR DAMP LOCATIONS.

LED INTERIOR WALL-MOUNTED FIXTURE

M

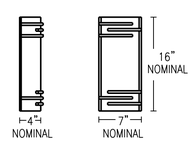


LUMINAIRE REQUIREMENTS:

1. HOUSING – 16-GAUGE GALVANIZED STEEL CONSTRUCTION, MAXIMUM 1-1/2" CEILING THICKNESS. PROVIDE WITH JUNCTION BOX CAPACITY: 8 (4 IN, 4 OUT) 12 AWG RATED FOR 90 DEGREE C. LIGHT ENGINE AND DRIVE ACCESSIBLE THROUGH APERTURE.
2. OPTICAL SYSTEM – SPECULAR LOWER REFLECTOR. 45 DEGREE CUTOFF. TOP-DOWN FLASH CHARACTERISTIC.
3. ELECTRICAL-FULLY SERVICEABLE AND UPGRADEABLE LENSED LED LIGHT ENGINE. 120-277 VAC, 50/60 HZ POWER SUPPLY WITH 0-10 V DIMMING, RATED FOR 50,000 HOUR LIFE. OVERLOAD AND SHORT CIRCUIT PROTECTED. LED LISTED UNDER LM80.
5. CERTIFICATION – UL LISTED AND LABELED.

LED DOWNLIGHT FIXTURE

N



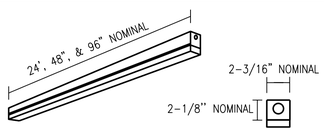
LUMINAIRE REQUIREMENTS:

1. HOUSING/BACKPLATE – DIE-FORMED, COLD-ROLLED STEEL, WITH HIGHLY-REFLECTIVE WHITE ENAMEL FINISH.
2. TRIM – OPTIONS INCLUDE BRUSHED SOLID ALUMINUM, BRASS OR CHROME-PLATED BRASS, SATIN NICKEL, AND OTHERS. FINISH OPTIONS VARY BY MANUFACTURER.
3. DIFFUSER – TRANSLUCENT WHITE ACRYLIC OR WHITE OPAL GLASS.
4. ELECTRICAL-LONG-LIFE LEDS, COUPLED WITH HIGH-EFFICIENCY DRIVERS, PROVIDE EXTENDED SERVICE LIFE. TB IS RATED TO DELIVER L70 PERFORMANCE AT 50,000 HOURS. LED ACCUDRIVE DRIVER, DELIVERS FULL RANGE DIMMING FROM 0-10V
5. MOUNTING – FIXTURE SHALL MOUNT DIRECTLY TO 4" OCTAGONAL OUTLET BOX WITH FOUR SEPARATE MOUNTING SCREWS.
6. CERTIFICATION – UL LISTED AND LABELED. ADA COMPLIANT.
7. OPTIONS/OTHER – OPTIONS INCLUDE REMOTE EMERGENCY BATTERY BACK-UP AND VARIOUS OTHER FINISHES.

NOTE: FIXTURE DEPICTED IS ONE OF MANY TYPES AVAILABLE. PROVIDE ADDITIONAL DETAILS AND SKETCHES WHERE NECESSARY TO DEPICT EXACT SCONCE TO BE UTILIZED.

LED WALL SCONCE

O



LUMINAIRE REQUIREMENTS:

HOUSING – CODE-GAUGE COLD-ROLLED STEEL, WHITE COLOR. EASY TO INSTALL ROW ALIGNER INCLUDED FOR CONTINUOUS ROW MOUNTING.

NORMAL LIGHTING DISTRIBUTION, 4000K COLOR TEMPERATURE. TEMPERATURE RANGE -4 TO 86 DEGREE F. CRI 83.

ELECTRICAL-LONG-LIFE LEDS, PROVIDE EXTENDED SERVICE LIFE. MEET ANSI C78.733 STANDARD. PERFORMANCE AT LONG MAINTENANCE FREE LIFE 65,000 – 100,000 HOURS.

CERTIFICATION – UL AND CSA FOR DUMP LOCATIONS.

NOTES:

1. FOR 6' OF STRIP LIGHT, USE ROW CONSISTING OF 24' AND 48' STRIP LIGHTS.
2. SEE PICTURE ON SHEET E-503 AS EXAMPLE OF BACKLIT MIRROR.

MEN'S AND WOMEN'S ROOM LED BACKLIT MIRROR STRIP LIGHTS

P

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY: CDR MARC BERNATH NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NAVAL STATION
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
LIGHTING DETAILS

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667856
SHEET 212 OF 248
E-502

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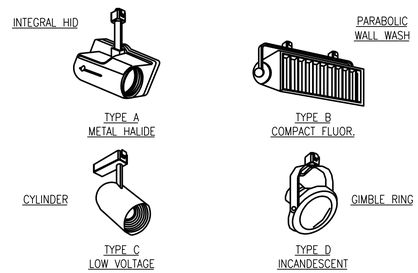
LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	SKETCH NO. & TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	WATTAGE	MOUNTING	NOTES
A	SEE SHEET E-501	LED, 7200 LUMENS	MVOLT	75	RECESS	1
B	SEE SHEET E-501	LED, 12000 LUMENS 2 ROWS	MVOLT	130	PENDANT	2
C	SEE SHEET E-501	LED, 3700 LUMENS	MVOLT	36	RECESS	3
D	SEE SHEET E-501	LED, 4000 LUMENS	MVOLT	40	RECESS	4
E	SEE SHEET E-501	LED, 3360 LUMENS	MVOLT	48	RECESS	5
F	SEE SHEET E-501	LED, 3800 LUMENS	MVOLT	40	SURFACE/ SUSPENDED	6
G	SEE SHEET E-501	LED EXIT SIGN	120/277	5	WALL/CEILING	7
H	SEE SHEET E-501	LED, 1150 LUMENS	120/277	20	WALLL	8
I	SEE SHEET E-502	LED 24 X 1.5W	120/277	36	CEILING/WALL	9
J	SEE SHEET E-502	LED	120	68	SURFACE	10
K	SEE SHEET E-502	LED, 2100 LUMENS	120/277	24	WALL	11
L	SEE SHEET E-502	LED, 2900 LUMENS	MVOLT	32	PENDANT	12 13
M	SEE SHEET E-502	LED	120/277	58	WALL	14
N	SEE SHEET E-502	LED, 2200 LUMENS	MVOLT	32	RECESS	15
O	SEE SHEET E-502	LED	MVOLT	20	COLUMN	16
P	SEE SHEET E-502	LED, 3000-7000-10000 LM FOR 24"-48"-96"L	MVOLT	34,72,84	SURFACE	17
Q	SEE SHEET E-503 TYPE C	LED	120	21	TRACK LIGHT	18

1. DESIGN BASED ON LITHONIA LIGHTING 2VTL4 72L ADP MVOLT D75 LP835 N80 OR EQUAL AND APPROVED. PROVIDE WITH 1400 LUMEN EMERGENCY BATTERY PACK, WHERE INDICATED.
2. DESIGN BASED ON LITHONIA LIGHTING IBL 12L WD LP740 DLC WGX NEPP5D OR EQUAL AND APPROVED.
3. DESIGN BASED ON LITHONIA LIGHTING 2GTL2LP840 OR EQUAL AND APPROVED. PROVIDE WITH 1400 LUMEN EMERGENCY BATTERY PACK, WHERE INDICATED.
4. DESIGN BASED ON LITHONIA LIGHTING 2GTL4LP840 OR EQUAL AND APPROVED. PROVIDE WITH 1400 LUMEN EMERGENCY BATTERY PACK, WHERE INDICATED.
5. DESIGN BASED ON MARK ARCHITECTURAL LIGHTING, SLOT 4 LED, S4TLWW-4FT G15 H35 AD 120 SW N80, WITH WHITE FINISH OR EQUAL AND APPROVED.
6. DESIGN BASED ON ZUMTOBEL LIGHTING, LED SUSPENDED LIGHT, LTSLED1440WK35MPDUZ OR EQUAL AND APPROVED.
7. DESIGN BASED ON LITHONIA LIGHTING, QUANTUM LED EXIT SIGN OR EQUAL AND APPROVED.
8. MOUNT ABOVE MIRROR. DESIGN BASED ON THOMAS LIGHTING, LED, FAMILY NAME PARALLEL, TT0005217.
9. DESIGN BASED ON ACUITY LITHONIA, ELM2 LED OR EQUAL AND APPROVED.
10. DESIGN BASED SPILIGHTING STYK EXTERIOR LINER LED, SEWS-039-L20.4WA-35K-A25.0W-SMA-24V DC-BRK-PCE OR EQUAL AND APPROVED.
11. DESIGN BASED ON ACUITY LITHONIA, MNSL MV 2 1-1/2"W 2"H 87.5 4000K OR EQUAL AND APPROVED.
12. DESIGN BASED ON GOTHAM LIGHTING, EVO CYLINDER, MATTE TRIM OR EQUAL AND APPROVED.
13. WHERE THREE FIXTURES ARE LOCATED TOGETHER, PENDANT MOUNT A FIXTURE AT 9 AFF, 10 AFF AND 11 AFF.
14. DESIGN BASED ON SPILIGHTING STILE, SIW11344-L80.4WA-24V-AN04-12-277V-PSE OR EQUAL AND APPROVED.
15. DESIGN BASED ON GOTHAM LED DOWNLIGHT EVO 35 18 8AR MD MVOLT NEPP EL OR EQUAL AND APPROVED. PROVIDE WITH EMERGENCY BATTERY PACK WITH INTEGRAL TEST SWITCH, WHERE INDICATED.
16. DESIGN BASED ON OCL ARCHITECTURAL LIGHTING, RG1-S1SA-18-TB-SNK-1LD20/35K-120 OR EQUAL AND APPROVED.
17. DESIGN BASED ON LITHONIA LIGHTING ZL1NL24 3000LM FST MVOLT 40K 80CRI WH (24' LONG), ZL1NL48 7000LM FST MVOLT 40K 80CRI WH (48' LONG), AND ZL1NL96 10000LM FST MVOLT 40K 80CRI WH (96' LONG) OR EQUAL AND APPROVED.
18. DESIGN BASED ON PHILLIPS LIGHTOFFER, LLA1130BK OR EQUAL AND APPROVED.

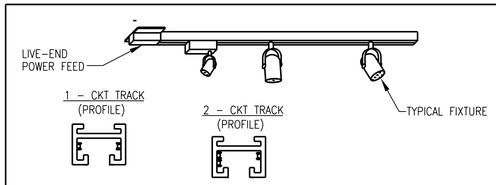


LUMINAIRE REQUIREMENTS:

1. HOUSING - TYPE A: DIE-CAST ALUMINUM WITH MATTE BLACK BAFFLE.
   TYPE B: ALUMINUM WITH OPTIONAL CAST ALUMINUM END CAPS.
   TYPE C & D: HIGH QUALITY METAL WITH MATTE BLACK BAFFLE FOR TYPE C.
2. FINISH - TYPE A, B, C & D: MATTE WHITE OR BLACK POWDER COAT STANDARD. VARIETY OF OTHER COLORS AVAILABLE. ADD SPECIFIC DESCRIPTION TO LIGHTING FIXTURE SCHEDULE.
3. ELECTRICAL-LONG-LIFE LEDS, COUPLED WITH HIGH-EFFICIENCY DRIVERS, PROVIDE EXTENDED SERVICE LIFE. FIXTURE IS RATED TO DELIVER L70 PERFORMANCE AT 50,000 HOURS. LED ACCUDRIVE DRIVER, DELIVERS FULL RANGE DIMMING FROM 0-10V
4. CERTIFICATION - UL LISTED AND LABELED.

LED TRACK LIGHTING FIXTURES

Q

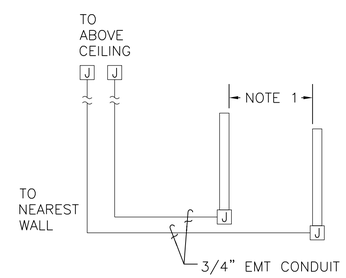


LUMINAIRE REQUIREMENTS:

1. TRACK SECTION - HEAVY-GAUGE, EXTRUDED ALUMINUM CHANNEL WITH NATURAL ALUMINUM OR BAKED ENAMEL OR POWDER COAT WHITE, OR BLACK FINISH.
2. AMPACITY - TRACK SHALL HAVE ONE OR TWO 20 AMP CIRCUITS INTEGRAL TO EXTRUDED TRACK CHANNEL AS NOTED.
3. LENGTHS - TRACK SHALL BE AVAILABLE IN 2', 4', 8', AND 12' CONTINUOUS SECTIONS.
4. MOUNTING - EACH 4' OR LESS SECTION OF TRACK SHALL BE SECURED BY TWO TOGGLE-BOLT TYPE FASTENERS, OR SCREWS IF JOIST IS AVAILABLE.
5. FIXTURE TYPES - SEE THIS SHEET FOR LED TRACK LIGHTING FIXTURES.
6. CERTIFICATION - UL LISTED AND LABELED.
7. OPTIONS - PROVIDE ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION. AVAILABLE ACCESSORIES INCLUDE:
   A. LIVE END FEED - USED TO START A SINGLE RUN.
   B. LINEAR COUPLER - USED TO JOIN TWO STRIGHT TRACKS.
   C. L FEED CONNECTOR - JOINS TWO TRACKS IN 90 DEGREE CONFIGURATION.
   D. T FEED CONNECTOR - JOINS THREE TRACKS IN TEE CONFIGURATION.
   E. X FEED CONNECTOR - JOINS FOUR TRACKS IN AN X CONFIGURATION.
   F. FLEXIBLE CONNECTOR - JOINS TWO TRACKS IN UP TO A 90 DEGREE BEND.
   G. SURFACE CONDUIT FEED - PERMITS TRACK END TO BE CONNECTED TO 1/2" CONDUIT.
   H. CONCEALED FEED - PERMITS TRACK TO BE CONNECTED FROM ABOVE WITHOUT OUTLET BOX.

SURFACE-MOUNTED LED TRACK LIGHTING TYPICAL SUPPORT

EXAMPLE OF BACKLIT MIRROR WITH STRIP LIGHT TYPE P



PROVIDE CONDUITS WITH PULL WIRE FOR FUTURE CABLING BY SECURITY CONTRACTOR.

NOTE 1

MAXIMUM 9' FOR PRO-MAX PEDESTAL
MAXIMUM 6' FOR DOOR MAX PEDESTAL
MAXIMUM 6' FOR ULTRA POST PEDESTAL

SECURITY LOSS PREVENTION DETAIL

NO SCALE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY
CDR MARC BERNATH
NEXCOM - FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
NAVAL STATION - GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
LIGHTING FIXTURE SCHEDULE AND DETAILS

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667857
SHEET 213 OF 248
E-503

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:07pm USER: dlawson

FEEDERS SCHEDULE

##	FEEDER DATA
1	TWO 3"C WITH FOUR 350 kcmil AND ONE #1 GND IN EACH CONDUIT
2	FOUR #4/0 AND ONE #4 GND IN 2-1/2"C
3	FOUR 350 kcmil AND ONE #3 GND IN 3"C
4	FOUR #3/0 AND ONE #4 GND IN 2"C
5	FOUR #3/0 AND ONE #6 GND IN EXISTING C
6	FOUR 500 kcmil AND ONE #3 GND IN 3-1/2"C
7	FOUR 500 kcmil AND ONE #3 GND IN EXISTING C
8	FOUR #6 AND ONE #10 GND IN 1"C

FEEDERS SCHEDULE (CONTINUATION)

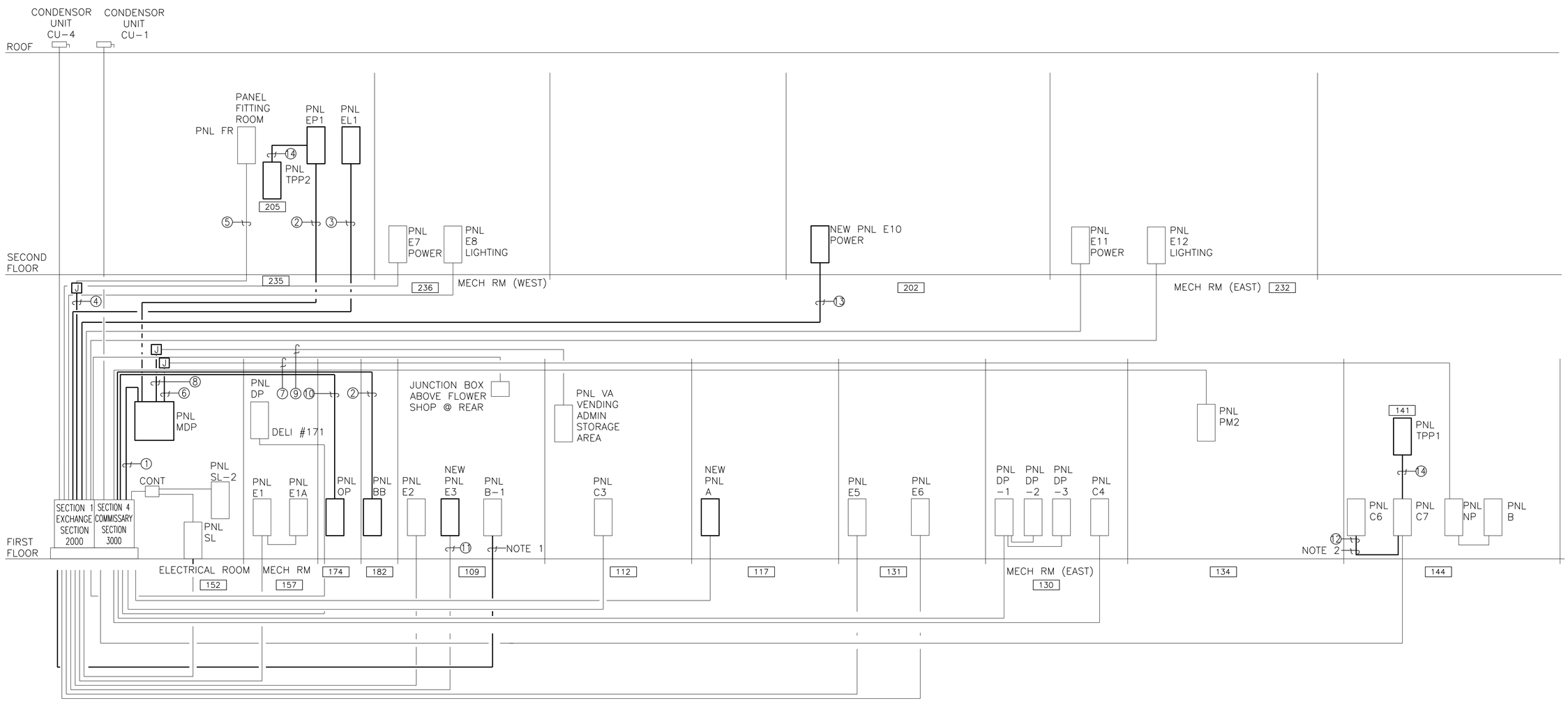
##	FEEDER DATA
9	FOUR #6 AND ONE #10 GND IN EXISTING C
10	FOUR #1/0 AND ONE #6 GND IN 2"C
11	FOUR #3/0 AND ONE #4 GND IN EXISTING C
12	FOUR #1 AND ONE #8 GND IN 1-1/2"C
13	FOUR #2/0 AND ONE #6 GND IN 2"C
14	THREE #1 AND ONE #8 GND IN 1-1/2"C

GENERAL KEYNOTE

REFER TO EXISTING SWITCHBOARD ("SECTION 1") AND ("SECTION 4") ON SHEET E-602 FOR EXISTING FEEDERS DATA.

KEYNOTES

1. PNL B-1 IS CONNECTED TO COMPARTMENT No.14 250 A CB. CONNECTION PNL B-1 FEEDER CONSISTING OF THREE #2 CU TO 250 A CB VIOLATED NEC AND SHALL BE VERIFIED DURING CONSTRUCTION AND REPORTED TO CONTRACTING OFFICER.
2. TAPS SHALL BE NOT OVER 25 FEET LONG AND CONCEALED IN WALL. REPAIR WALL AFTER CONDUIT INSTALLATION.



ONE LINE DIAGRAM

NO SCALE

APPR | DATE | DESCRIPTION | SYM

NAVFAC

COMMONWEALTH OF VIRGINIA
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5-15-16
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ACTIVITY
CDR MARC BERNATH
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DEPARTMENT OF THE NAVY
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NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
SUBASE NEW LONDON GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
ONE LINE DIAGRAM

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667858
SHEET 214 OF 248
E-601

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:07pm USER: dlawson

EXISTING MAIN SWITCHBOARD SCHEDULE ("SECTION 1" EXCHANGE) 152

HORIZ. BUS RATING: 2000A	VERT. BUS RATING: 2000A	BRACING:65K AMPS SYMM.	
GROUND BUS RATING: 2000A	NEUT. BUS RATING: 2000A	VOLTAGE: 208Y/120V	ENCLOSURE–NEMA TYPE: 1

SECTION DESCRIPTION	COMPT. NO.	CIRCUIT BREAKER*		FEEDER				CABLE TYPE	LOAD SERVED*	REMARKS
				CONDUIT		WIRE				
		NO. OF POLES	FRAME	NO.	SIZE	NO.	SIZE*			
EXISTING GE AV–LINE	①	3	100	*	*	*	#2	CU	PANELS SL&SL–2	
	②	3	150***	*	*	*	#3/0	CU	PANEL E3	NEW PNL E3
	③	3	100	*	*	*	#3/0	AL	PANEL E6	
	④	3	100	*	*	*	#2/0	AL	PANEL E8	
	⑤	3	175***	*	*	*	#2/0	CU	PANEL E10	NEW PNL E10
	⑥	3	225***	1	1–1/2	4	#3/0	CU	PANEL FR	IN LIEU OF PNL E13
	⑦	3	100	*	*	*	#1/0	AL	PANEL OP	
	⑧	3	150	*	*	*	#4/0	AL	PANEL E1	
	⑨	3	175	*	*	*	250	AL	PANEL E5	
	⑩	3	100	*	*	*	#2	CU	GARDEN SHOP AC	
	⑪	3	150	*	*	*	250	AL	PANEL E11	
	⑫	3	150	*	*	*	250	AL	PANEL E12	
	⑬	3	–	–	–	–	–	–	SPACE	
	⑭	3	250	*	*	*	500	AL	PANEL E2	****
	⑮	3	300	1	3	1	350**	CU	PANEL EL1	IN LIEU OF PNL E9
	⑯	3	600	*	*	*	(2)500	CU	PANEL DP	
	⑰	3	350	*	*	*	750	AL	PANEL E7	
	⑱	3	400	*	*	*	500	CU	PANEL CU–4	

* DENOTES EXISTING CONDITION UON.
** DENOTES NEW WIRE IN NEW CONDUIT.
*** REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE CIRCUIT BREAKER COMPATIBLE WITH GE AV–LINE SWITCHBOARD.
**** PNL B–1 IS ALSO CONNECTED TO THIS COMPARTMENT. CONNECTION PNL B–1 FEEDER CONSISTING OF THREE #2 CU VIOLATED NEC AND SHALL BE VERIFIED DURING CONSTRUCTION AND REPORTED TO CONTRACTING OFFICER.

EXISTING MAIN SWITCHBOARD SCHEDULE ("SECTION 4" COMMISSARY) 152

HORIZ. BUS RATING: 3000A	VERT. BUS RATING: 3000A	BRACING:65K AMPS SYMM.	
GROUND BUS RATING: 3000A	NEUT. BUS RATING: 3000A	VOLTAGE: 208Y/120V	ENCLOSURE–NEMA TYPE: 1

SECTION DESCRIPTION	COMPT. NO.	CIRCUIT BREAKER*		FEEDER				CABLE TYPE	LOAD SERVED	REMARKS
				CONDUIT		WIRE				
		NO. OF POLES	FRAME	NO.	SIZE	NO.	SIZE*			
EXISTING GE AV–LINE	①	3	225**	1	2–1/2"	4	#4/0	CU	PANEL BB	LOCATED IN BARBER SHOP (IN LIEU OF PANEL E6)
	②	3	30**	1	1"	4	#10	CU	SPD	LOCATED IN ELECTRICAL RM IN LIEU OF PANEL C2)
	③	125 3		*	*	*	#4/0	AL	PANEL C4	
	④	125 3		*	*	*	#4/0	AL	PANEL C7	
	⑤	3	225	*	*	*	400	AL	PANEL A	RELOCATED PANELBOARD
	⑥	3	225	*	*	*	400	AL	PANEL C3	
	⑦	3	225	–	–	–	400	AL	SPARE^	IN LIEU OF PANEL PM
	⑧	3	225	–	–	–	–	–	SPARE	
	⑨	3	225	*	*	*	#4/0	CU	PANEL PM–2	
	⑩	3	400	*	*	*	350	CU	PANEL CU–1	
	⑪	3	600**	1	3	4	(2)350	CU	PANEL MDP	IN LIEU OF PANEL C
	⑫	3	250***	–	–	–	350	AL	SPACE^	IN LIEU OF PANEL D
	⑬	1200 3		*	*	*	(4)350	AL	PANEL DP–1	
		3	400****	–	–	–	(2)250	AL	PANEL NP	SHALL BE FED FROM MDP

* DENOTES EXISTING CONDITION UON.
** REMOVE EXISTING CIRCUIT BREAKER, CONDUIT WITH WIRING, AND PROVIDE CIRCUIT BREAKER COMPATIBLE WITH GE AV–LINE SWITCHBOARD. PROVIDE CONDUIT WITH WIRING AS SHOWN
*** DEFECTIVE BREAKER LOCKED OUT.
**** DEMOLISH EXISTING ENCLOSED CB ON TOP OF SWB AND REMOVE WIRING WITH CONDUIT. SEE DEMOLITION NOTE 23 ON SHEET ED401 AND PANEL MDP SCHEDULE ON THIS SHEET.
^ REMOVE EXISTING CONDUIT WITH WIRING

PANELBOARD "MDP" SCHEDULE 152

600A, 600A MLO, 208Y/120V, 3 PHASE, 4 WIRE, 65 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP)			BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP)			LOAD SERVED
	A	B	C								A	B	C	
PANEL NP	537			400	500	1		2	6	60	48			VENDING ADMIN PANEL "VA"
		537										48		
			481										48	
SPACE	–			–	–	7		8	2	100	80			MECH UNIT–VENDING OFFICE
SPACE		–		–	–	9						80		
SPACE			–	–	–	11							80	
SPACE	–			–	–	13		14	4/0	225	128			PANEL EP1
SPACE		–		–	–	15						138		
SPACE			–	–	–	17							156	
SPACE	–			–	–	19		20	–	–	–			SPACE
SPACE		–		–	–	21		22	–	–		–		SPACE
SPACE			–	–	–	23		24	–	–			–	SPACE
SPACE	–			–	–	25		26	–	–	–			SPACE
SPACE		–		–	–	27		28	–	–		–		SPACE
SPACE			–	–	–	29		30	–	–			–	SPACE
SPACE	–			–	–	31		32	–	–	–			SPACE
SPACE		–		–	–	33		34	–	–		–		SPACE
SPACE			–	–	–	35		36	–	–			–	SPACE
SPACE	–			–	–	37		38	–	–	–			SPACE
SPACE		–		–	–	39		40	–	–		–		SPACE
SPACE			–	–	–	41		42	–	–			–	SPACE
TOTAL ESTIMATED LOAD	537	537	481								256	266	284	TOTAL EATIMATED LOAD

① TOTAL ESTIMATED CONNECTED LOAD AMPS A: 793 B: 803 C: 765

* DENOTES EXISTING.

① USE UFC3–501–01 NAVY CODE 740 01 EXCHANGE RETAIL STORE DEMAND FACTOR (DF = 0.65) FOR ESTIMATED CONTINUOUS LOAD.

PANELBOARD "E10" SCHEDULE 202

225A, MAIN LUGS ONLY, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP)			BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP)			LOAD SERVED
	A	B	C								A	B	C	
*	16			20	*	1		2	*	20	16			*
*		16		20	*	3		4	*	20		16		*
*			16	20	*	5		6	*	20			16	*
*	16			20	*	7		8	*	20	16			*
*		16		20	*	9		10	*	20		16		*
*			16	20	*	11		12	*	20			16	*
	16							14	*	20	16			*
*		16		20	*	15		16	*	20		16		*
*			16	20	*	17		18	*	20			16	*
*	16			20	*	19		20	*	20	16			*
*		16		20	*	21		22	*	20		16		*
*			16	20	*	23		24	*	20			16	*
*	16			20	*	25		26	*	20	16			*
*		16		20	*	27		28	*	20		16		*
*			16	20	*	29		30	*	20			16	*
*	16			20	*	31		32	*	20	16			*
*		16		20	*	33		34	*	20		16		*
*			16	20	*	35		36	*	20			16	*
EWH–4	16			30	10	37		38	12	20	3			ROOF RECEPTACLE
		16						40	–	20		–		SPARE
			16					40	–	20			–	SPARE
TOTAL ESTIMATED LOAD	128	128	128								115	112	112	TOTAL EATIMATED LOAD

① TOTAL ESTIMATED CONNECTED LOAD AMPS A: 243 B: 240 C: 240

* RECONEC EXISTING CIRCUITS FROM EXISTING PANEL "E10".

①USE UFC3–501–01 NAVY CODE 740 01 EXCHANGE RETAIL STORE DEMAND FACTOR (DF = 0.65) FOR ESTIMATED CONTINUOUS LOAD.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
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ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
PANELBOARD AND SWITCHBOARD SCHEDULES

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085–14–C–5203
NAVFAC DRAWING NO. 12667859
SHEET 215 OF 248
E-602

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:07pm USER: dlawson

PANELBOARD "OP" SCHEDULE

174

100A, 100A MCB, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	B	C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	B	C	LOAD SERVED
RECPT OPTICAL	9			20	12	1		2	12	20	5			DISPLAY CASE OPTICAL
RECPT OPTICAL		6		20	12	3		4	12	20		5		DISPLAY CASE OPTICAL
FLOOR BOX OPTICAL			5	20	12	5		6	12	20			5	DISPLAY CASE OPTICAL
WORK STATION	2			20	12	7		8	12	20	5			DISPLAY CASE OPTICAL
FLOOR BOX OPTICAL		5		20	12	9		10	12	20		5		DISPLAY CASE OPTICAL
PLUGMOLD RECPTS OPTICAL LAB			6	20	12	11		12	12	20			5	DISPLAY CASE OPTICAL
PLUGMOLD RECPTS OPTICAL LAB	6			20	12	13		14	12	20	5			DISPLAY CASE OPTICAL
PLUGMOLD RECPTS OPTICAL LAB		6		20	12	15		16	12	20		5		DISPLAY CASE OPTICAL
RECPTS OPTICIAN OFFICE			8	20	12	17		18	10	30			14	WATER HEATER, OPTICIANS
RECPTS OPTICIAN WAITING	6			20	12	19					14			
WORK STATION		2		20	12	21		22	12	20		8		LIGHTING
DISPLAY CASE OPTICAL			5	20	12	23		24	12	20			2	EF-11
SPARE	–			20	–	25		26	–	20	–			SPARE
SPARE		–		20	–	27		28	12	20		6		LIGHTING
SPACE			–	–	–	29		30	–	12			–	SPARE
SPACE	–			–	–	31		32	–	–	–			SPACE
SPACE		–		–	–	33		34	–	–		–		SPACE
SPACE			–	–	–	35		36	–	–			–	SPACE
SPACE	–			–	–	37		38	–	–	–			SPACE
SPACE		–		–	–	39		40	–	–		–		SPACE
SPACE			–	–	–	41		42	–	–			–	SPACE
TOTAL	23	19	24								29	29	26	TOTAL

TOTAL CONNECTED AMPS A: 52 B: 48 C: 50

PANELBOARD "BB" SCHEDULE

182

225A, 225 MCB, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	B	C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	B	C	LOAD SERVED
RECPT BARBER CHAIR	3			*20	12	1		2	12	*20	5			RECPT BARBER CHAIR
RECPT BARBER CHAIR		5		*20	12	3		4	12	*20		5		RECPT BARBER CHAIR
RECPT BARBER CHAIR			5	*20	12	5		6	12	*20			5	RECPT BARBER CHAIR
RECPT BARBER CHAIR	5			*20	12	7		8	10	40	17			VAC-1
RECPT BARBER CHAIR		5		*20	12	9						17		
RECPT BARBER CHAIR			5	*20	12	11							17	
RECPT BARBER CHAIR	5			*20	12	13		14	12	20	10			HAIR DRYER
RECPT WASHER		5		20	12	15		16	12	20		10		HAIR DRYER
DRYER			24	30	10	17		18	–	20			–	SPARE
	24							20	10	30	19			WATER HEATER, WH-2
RECPTS WAITING AREA		6		–	–	21						19		
–			–	20	12	23		24	8	45			31	RTU-2
RECPT HAIR WASHING	4			20	12	25					31			
RECPT RECEPTION TELEVISION		–		20	12	27						31		
RECPT RECEPTION			2	20	12	29		30	8	40			29	RTU-1
GEN RECPTS	6			20	12	31					29			
CIRCULATOR PUMP		2		20	12	33						29		
RECPT BARBER CHAIR			5	20	12	35		36	12	*20			5	RECPT BARBER CHAIR
SPARE	–			20	–	37		38	12	20	6			LIGHTING
SPACE		–		–	–	43		40	12	20		9		LIGHTING
SPACE			–	–	–	43		42	12	20			4	LIGHTING
SPACE	–			–	–	43		44	12	20	2			ROOF RECEPTACLE
DUCTLESS SPLIT SYSTEM		14		30	10	45		46	8	20		8		PYLON SIGN
HEAT PUMP OUTDOOR UNIT			14					48	–	20			–	SPARE
SPACE	–			–	–	49		50	–	–	–			SPACE
SPACE		–		–	–	51		52	–	–		–		SPACE
TOTAL	47	37	55								119	128	91	TOTAL

TOTAL CONNECTED AMPS A: 166 B: 165 C: 146

NOTES:
* INDICATES GFI TYPE BREAKER WITH CLASS A GFI DEVICE FOR PERSONNEL PROTECTION.

PANELBOARD "EP1" SCHEDULE

235

225A, MAIN LUGS ONLY, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	B	C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	B	C	LOAD SERVED
TAILOR FLOOR RECPTS	6			20	10	1		2	12	20	4			COLUMN RECPTS
E2 FLOOR RECEPTS		8		20	10	3		4	12	20		4		COLUMN RECPTS
E4 RECEPTS			6	20	10	5		6	12	20			4	COLUMN RECPTS
UNIFORM FLOOR RECPTS	3			20	10	7		8	12	20	4			COLUMN RECPTS
UNIFORM FLOOR RECPTS		3		20	10	9		10	12	20		4		COLUMN RECPTS
UNIFORM REGISTERS			3	20	10	11		12	12	20			4	COLUMN RECPTS
UNIFORM REGISTERS	3			20	10	13		14	12	20	4			COLUMN RECPTS
E2 & E8 FLOOR RECPTS		8		20	10	15		16	12	20		4		COLUMN RECPTS
E8 & E3 FLOOR RECPTS			8	20	10	17		18	12	20			4	COLUMN RECPTS
E8 FLOOR RECPTS	8			20	10	19		20	12	20	4			COLUMN RECPTS
SPARE		–		20	–	21		22	12	20		4		COLUMN RECPTS
E8 FLOOR RECPTS			8	20	10	23		24	12	20			4	COLUMN RECPTS
SPARE	–			20	–	25		26	12	20	4			COLUMN RECPTS
E8 FLOOR RECPTS		10		20	10	27		28	12	20		4		COLUMN RECPTS
G3 FLOOR RECPTS			–	20	10	29		30	12	20			4	COLUMN RECPTS
G3 FLOOR RECPTS	6			20	10	31		32	12	20	4			COLUMN RECPTS
G3 FLOOR RECPTS		10		20	10	33		34	12	20		4		COLUMN RECPTS
G3 FLOOR RECPTS			10	20	10	35		36	10	20			8	G3 FLOOR RECPTS
JEWELRY RECPTS	8			20	10	37		38	10	20	8			G3 FLOOR RECPTS
JEWELRY RECPTS		6		20	10	39		40	10	20		8		COSMETICS FLOOR RECPTS
JEWELRY RECPTS			6	20	10	41		42	10	20			8	COSMETICS FLOOR RECPTS
JEWELRY RECPTS	4			20	10	43		44	10	20	–			COSMETICS FLOOR RECPTS
D2 FLOOR RECPTS		8		20	10	45		46	10	20		–		COSMETICS FLOOR RECPTS
D2 FLOOR RECPTS			8	20	10	47		48	10	20			–	COSMETICS FLOOR RECPTS
D2 FLOOR RECPTS	8			20	10	49		50	10	20	–			COSMETICS FLOOR RECPTS
D2 FLOOR RECPTS		6		20	10	51		52	10	20		6		MAKE-UP FLOOR RECPTS
D2 FLOOR RECPTS			8	20	10	53		54	10	20			8	MAKE-UP FLOOR RECPTS
WATCHES REGISTERS	4			20	10	55		56	10	20	4			FURNITURE FLOOR RECPTS
D2 FLOOR RECPTS		10		20	10	57		58	10	20		6		E8 FLOOR RECPTS
RECEPTACLE			5	20	10	59		60	10	20			15	REFER EMPLOYEE LOUNGE
RECEPTACLE	5			20	10	61		62	10	20	15			REFER EMPLOYEE LOUNGE
EWC		8		20	10	63		64	10	20		4		COUNTER TOP RECEPT LOUNGE
DISHWASHER EMPLOYEE LOUNGE			10	20	10	65		66	10	20			4	COUNTER TOP RECEPT LOUNGE
CCTV CAMERA	4			20	10	67		68	10	20	4			COUNTER TOP RECEPT LOUNGE
ROOF RECEPTACLES		6		20	10	69		70	10	20		7		RECEPT EMPLOYEE LOUNGE
DHP-2			13	20	10	71		72	10	20			7	GFI TOILETS
	13							74	10	20	6			GFI TOILETS
SPACE		–		–	–	75		76	10	20		6		CAMERA BLDG
SPACE			–	–	–	77		78	1	50			10	PANEL TPP2
SPACE	–			–	–	79					10			
TOTAL	70	83	85								71	61	84	TOTAL

TOTAL CONNECTED AMPS A: 141 B: 144 C: 169

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER jas
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
PANELBOARD SCHEDULES

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667860
SHEET 216 OF 248
E-603

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:07pm USER: dlawson

PANELBOARD "A" SCHEDULE

117

225A, MAIN LUGS ONLY, 208Y/120V, 3 PHASE, 4 WIRE, 65 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	LOAD SERVED
COLUMN RECEPTACLES	4			20	12	1		2	10	20	6			CUSTOMER SERVICE RECPTS
COLUMN RECEPTACLES		4		20	12	3		4	10	20		6		CUSTOMER SERVICE RECPTS
COLUMN RECEPTACLES			4	20	12	5		6	10	20			4	CUSTOMER SERVICE FLOOR RECPTS
COLUMN RECEPTACLES	4			20	12	7		8	10	20	8			CAMERA DISPLAY RECPTS
COLUMN RECEPTACLES		4		20	12	9		10	10	20		6		CAMERA REGISTER
COLUMN RECEPTACLES			4	20	12	11		12	10	20			4	IPOD FLOOR RECPTS
COLUMN RECEPTACLES	4			20	12	13		14	10	20	4			IPOD FLOOR RECPTS
COLUMN RECEPTACLES		4		20	12	15		16	10	20		4		IPOD FLOOR RECPTS
TV WALL RECEPTACLES			9	20	12	17		18	10	20			4	IPOD FLOOR RECPTS
TV WALL RECEPTACLES	9			20	12	19		20	12	20	6			SHELVING RECPTS
TV WALL RECEPTACLES		9		20	12	21		22	12	20		6		SHELVING RECPTS
TV WALL RECEPTACLES			9	20	12	23		24	12	20			4	SHELVING RECPTS
TV WALL RECEPTACLES	9			20	12	25		26	10	20	8			FLOOR RECEPTACLES
TV WALL RECEPTACLES		9		20	12	27		28	10	20		8		FLOOR RECEPTACLES
TV WALL RECEPTACLES			9	20	12	29		30	10	20			6	FLOOR RECEPTACLES
* AUTOMATIC DOOR	16			20	*	31		32	10	20	4			FLOOR RECEPTACLES
* AUTOMATIC DOOR		16		20	*	33		34	12	20		6		SHELVING RECPTS
TV WALL RECEPTACLES			9	20	10	35		36	12	20			3	RECYCLE ROOM RECPTS
CCTV SCREEN CAMERA	4			20	12	37		38	12	20	3			RECYCLE ROOM RECPTS
OFFICE RECEPTACLE		10		20	12	39		40	12	20		9		TV WALL RECEPTACLES
LAYAWAY/OFFICE RECEPTACLE			10	20	12	41		42	12	20			6	FLOOR RECEPTACLES
TV WALL RECEPTACLES	9			20	10	43		44	–	20	–			SPARE
TV WALL RECEPTACLES		9		20	10	45		46	–	20		–		SPARE
TV WALL RECEPTACLES			9	20	10	47		48	–	–			–	SPACE
SPACE	–			–	–	49		50	–	–	–			SPACE
SPACE		–		–	–	51		52	–	–		–		SPACE
TOTAL ESTIMATED LOAD	63	65	63								39	45	31	TOTAL ESTIMATED LOAD

① TOTAL ESTIMATED CONNECTED LOAD AMPS A: 102 B: 110 C: 94

* DENOTES EXISTING.

① USE UFC3-501-01 NAVY CODE 740 01 EXCHANGE RETAIL STORE DEMAND FACTOR (DF = 0.65) FOR ESTIMATED CONTINUOUS LOAD.

EXISTING PANELBOARD "NP" SCHEDULE

144

400A, MAIN LUGS ONLY, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	LOAD SERVED
*	16			20*	*	1		2	*	20*	16			*
*		16		20*	*	3		4	*	20*		16		*
*			16	20*	*	5		6	*	20*			16	*
*	16			20*	*	7		8	*	20*	16			*
*		16		20*	*	9		10	*	30*		20		*
*			16	20*	*	11							20	
*	20			30*	*	13					20			
		20						16	*	20*		16		*
			20										16	
*	16			20*	*	19		20	*	20*	16			*
*		33		50*	*	21						16		
			33					24		20*			16	
	33							26	*	30*	16			*
*		16		20*	*	27		28	*	20*		16		*
			16					30	*	20*			16	*
PANEL B	210			200*	*	31		32	12	15	9			WALK-IN COOLER CONDENSING UNIT
		210										9		
			178										9	
WALK-IN FREEZER CONDENSING UNIT	30			40	8	37		38	10	30	24			TABLE SAW
		30										24		
			30					42	–	–			–	SPACE
TOTAL ESTIMATED LOAD	420	420	388								117	117	93	TOTAL ESTIMATED LOAD

① TOTAL ESTIMATED CONNECTED LOAD AMPS A: 537 B: 537 C: 481

* DENOTES EXISTING.

① USE UFC3-501-01 NAVY CODE 740 01 EXCHANGE RETAIL STORE DEMAND FACTOR (DF = 0.65) FOR ESTIMATED CONTINUOUS LOAD.

EXISTING PANELBOARD "C7" SCHEDULE ①

144

225A, MAIN LUGS ONLY, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, RECESSED MOUNT ②

LOAD SERVED	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	LOAD SERVED
MAINTENANCE STORAGE LTG	6			20*	12	1		2	12	20*	12			SALES AREA LIGHTING
VENDING AREA LTG		13		20*	12	3		4	12	20*		12		SALES AREA LIGHTING
TOILET LITG			4	20*	12	5		6	12	20*			12	SALES AREA LIGHTING
STOCK RM LTG	3			20*	12	7		8	12	20*	10			SALES AREA LIGHTING
OFFICE		13		20*	12	9		10	12	20*		11		SALES AREA LIGHTING
WALK-IN COOLERS			5	20*	12	11		12	12	20*			10	SALES AREA LIGHTING
STOCK RM LTG	8			20*	12	13		14	12	20*	10			SALES AREA LIGHTING
RECEIVING RM LTG		8		20*	12	15		16	12	20*		13		SALES AREA LIGHTING
RECICLE RM LTG			9	20*	12	17		18	12	20*			8	SALES AREA LIGHTING
RECICLE & OFFICE LTG	7			20*	12	19		20	12	20*	9			CUSTOMER SERVICE LIGHTING
FOOD COURT LTG		9		20*	12	21		22	12	20*		8		CHECKOUT AREA LIGHTING
FOOD COURT LTG			9	20*	12	23		24	12	20*			9	SALES AREA LIGHTING
GNC LTG	5			20*	12	25		26	*	20*	16			*
*		16		20*	*	27		28	*	20*		16		*
*			16	20*	*	29		30	*	20*			16	*
*	16			20*	*	31		32	*	20*	16			*
WALK-IN COOLERS		5		20*	12	33						16		
SPARE			–	20*	–	35		36	*	20*			16	*
SPACE	–			–	–	37		38	12	20	16			RECEPTACLE RM 154
SPACE		–		–	–	39		40	1	50		10		PANEL TPP1
SPACE			–	–	–	41							10	
TOTAL ESTIMATED LOAD	45	64	45								89	86	81	TOTAL

③ TOTAL ESTIMATED CONNECTED AMPS A: 134 B: 150 C: 126

* DENOTES EXISTING.

① SEE KEYNOTE 2 ON SHEET E-601.

② PORTION OF EXISTING TO BE DEMOLISHED BRANCH CIRCUIT CONDUITS RUNNING TO ABOVE CEILING SHALL REMAIN FOR REUSE FOR NEW BRANCH CIRCUITS CONNECTION TO EXISTING CIRCUIT BREAKERS.

③ USE UFC3-501-01 NAVY CODE 740 01 EXCHANGE RETAIL STORE DEMAND FACTOR (DF = 0.65) FOR ESTIMATED CONTINUOUS LOAD.

EXISTING PANELBOARD "B" SCHEDULE ①

144

225A, MAIN LUGS ONLY, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, RECESSED MOUNT ②

LOAD SERVED	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	LOAD SERVED
*	24			30*	*	1		2	*	20*	16			*
		24						4	*	20*		16		*
*			16	20*	*	5		6	*	20*			16	*
*	16			20*	*	7		8	*	20*	16			*
*		16		20*	*	9		10	*	30*		24		*
*			16	20*	*	11							24	
*	24			30*	*	13		14	*	20*	16			*
		24						16	*	20*		16		*
*			16	20*	*	17		18	*	20*			16	*
*	16			20*	*	19		20	*	20*	16			*
*		16		20*	*	21		22	*	20*		16		*
RECEPTACLES			5	20*	12	23		24	12	20*			5	RECEPTACLES
*	16			20*	*	25		26	*	20*	16			*
*		16		20*	*	27		28	*	20*		16		*
*			16	20*	*	29		30	*	20*			16	*
WALK-IN FREEZER	8			20	12	31		32	–	–	–			SPACE
WALK-IN COOLER		8		20	12	33		34	10	30		16		WALK-IN FREEZER
WALK-IN COOLER UNIT COOLER			2	20	12	35							16	
WALK-IN FREEZER	16			30	10	37		38	12	20	13			DHP-1
		16										13		
RECEPTACLE RM 185			5	20	12	41		42	12	20			5	RECEPTACLES RM 185
TOTAL ESTIMATED LOAD	120	120	76								93	109	90	TOTAL ESTIMATED LOAD

① TOTAL ESTIMATED CONNECTED AMPS A: 213 B: 229 C: 166

* DENOTES EXISTING.

① USE UFC3-501-01 NAVY CODE 740 01 EXCHANGE RETAIL STORE DEMAND FACTOR (DF = 0.65) FOR ESTIMATED CONTINUOUS LOAD.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
PANELBOARD SCHEDULES

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667861
SHEET 217 OF 248
E-604

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:08pm USER: dlawson

PANELBOARD "E3" SCHEDULE

109

225A, MAIN LUGS ONLY, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	B	C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	B	C	LOAD SERVED
DRY CLEANING RECPTS	6			20	12	1		2	12	20	4			COLUMN RECEPTACLES
BEDDING WALL RECPTS		6		20	12	3		4	12	20		4		COLUMN RECEPTACLES
VACUUM WALL RECPTS			6	20	12	5		6	12	20			4	COLUMN RECEPTACLES
PERS SERVICE FLOOR RECPTS	8			20	10	7		8	12	20	4			COLUMN RECEPTACLES
PERS SERVICE FLOOR RECPTS		8		20	10	9		10	12	20		4		COLUMN RECEPTACLES
PERS SERVICE FLOOR RECPTS			6	20	10	11		12	12	20			4	COLUMN RECEPTACLES
PERS SERVICE FLOOR RECPTS	6			20	10	13		14	12	20	4			COLUMN RECEPTACLES
CHECKOUT REGISTERS		4		20	10	15		16	12	20		4		COLUMN RECEPTACLES
CHECKOUT REGISTERS			4	20	10	17		18	12	20			4	COLUMN RECEPTACLES
CHECKOUT REGISTERS	4			20	10	19		20	12	20	4			COLUMN RECEPTACLES
TOBACCO REGISTERS		4		20	10	21		22	12	20		4		COLUMN RECEPTACLES
TOBACCO REGISTERS			4	20	10	23		24	12	20			4	COLUMN RECEPTACLES
WIRELESS ADVOCATES	5			20	10	25		26	12	20	3			INTERVIEW RECEPTACLE
WIRELESS ADVOCATES		5		20	10	27		28	12	20		3		SECURITY RECEPTACLE
COLUMN RECEPTACLE			4	20	10	29		30	12	20			3	SECURITY RECEPTACLE
COLUMN RECEPTACLE	4			20	10	31		32	12	20	3			CAMERA ROOM RECEPTACLE
COLUMN RECEPTACLE		4		20	10	33		34	12	20		3		CAMERA ROOM RECEPTACLE
COLUMN RECEPTACLE			4	20	10	35		36	12	20			8	SIGN
GENERAL RECEPTACLE	8			20	10	37		38	10	20	5			CCTV
CCTV POWER		2		20	10	39		40	10	20		5		POWER ABOVE CLG CAMERA RM
CCTV POWER			2	20	10	41		42	10	20			5	POWER ABOVE CLG CAMERA RM
CAMERA RM RECEPTACLE	3			20	10	43		44	10	20	5			POWER ABOVE CLG CAMERA RM
CAMERA RM RECEPTACLE		3		20	10	45		46	10	30		5		PERS SVCS DOUBLE DUPLEX RECEPT
CAMERA RM RECEPTACLE			3	20	10	47		48	10	20			10	OVERHEAD GRILLE
CAMERA RM RECEPTACLE	3			20	10	49		50	12	20	5			PERS SVCS DUPLEX RECEPT
SPACE		2		20	10	51		52	12	20		12.5		PAN RECEPTACLE
TOTAL	47	37	33								37	44.5	42	TOTAL

TOTAL CONNECTED AMPS A: 84 B: 82 C: 75

* DENOTES EXISTING.

EXISTING PANELBOARD "E11" SCHEDULE

232

225A, MAIN LUGS ONLY, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	B	C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	B	C	LOAD SERVED
AHU#4	67			100*	*	1		2	*	70*	47			EF#15
		67										47		
			67										47	
AHU#6	27			40*	*	7		8	*	20*	16			EF#2
		27										16		
			27										16	
COLUMN RECEPTACLES	4			20	12	13		14	*	20*	16			EF#7
COLUMN RECEPTACLES		4		20	12	15						16		
COLUMN RECEPTACLES			4	20	12	17							16	
SPARE	–			20*	–	19		20	12	20*	4			SHOE AREA LIGHTING
SALES AREA FLR RECEPTACLES		8		20*	10	21		22	12	20*		10		WALL WASH LIGHTING
SALES AREA FLR RECEPTACLES			8	20*	10	23		24	12	20*			9	SALES AREA LIGHTING
RECEPTACLES ABOVE CEILING	2			20*	12	25		26	12	20*	8			SALES AREA LIGHTING
RECEPTACLES ABOVE CEILING		2		20*	12	27		28	12	20*		4		SALES AREA LIGHTING
EF#3			16	20*	*	29		30	12	20*			8	SALES AREA LIGHTING
	16							32	12	20*	13			SALES AREA LIGHTING
		16						34	12	20*		8		SALES AREA LIGHTING
*			16	20*	*	35		36	12	20*			8	SALES AREA RECEPTACLE
RECEPTACLES	8			20	12	37		38	10	20	8			SALES AREA RECEPTACLE
SPACE		–		–	–	39		40	10	20		4		SALES AREA RECEPTACLE
SPACE			–	–	–	41		42	10	20			6	CAMERA BUILDING
TOTAL ESTIMATED LOAD	131	124	124								112	105	110	TOTAL EATIMATED LOAD

① TOTAL ESTIMATED CONNECTED LOAD AMPS A: 243 B: 229 C: 234

* DENOTES EXISTING.

① USE UFC3-501-01 NAVY CODE 740 01 EXCHANGE RETAIL STORE DEMAND FACTOR (DF = 0.65) FOR ESTIMATED CONTINUOUS LOAD.

EXISTING PANELBOARD "PM2" SCHEDULE

134

225A, MAINS W/225 M.C.B., 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	B	C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	B	C	LOAD SERVED
WALK-IN BEER COOLER APPLIANCE	9			20	12	1		2	10	20	16			WALK-IN BEER CONDENSER UNIT
REACH-IN COOLER APPLIANCE		8		20	12	3						16		
REACH-IN COOLER APPLIANCE			8	20	12	5							16	
REACH-IN COOLER, DOOR HEATER	10.6			20	10	7		8	10	20	16			WALK-IN BEER CONDENSER UNIT
REACH-IN COOLER, DOOR HEATER		10.6		20	10	9						16		
WALK-IN BEER COOLER SLIDING DOOR			4	20	10	11							16	
REACH-IN COOLER	8			20	10	13		14	12	20	10			REACH-IN CONDENSER UNIT
* DOCK LEVELLER		24		30*	*	15						10		
			24										10	
	24							20	12	20	10			REACH-IN CONDENSER UNIT
REACH-IN COOLER MERCHANT LTG		2		20	10	21						10		
WALK-IN BEER COOLER			12	20	10	23							10	
REACH-IN COOLER HEATER CKT	5.8			20	10	25		26	12	20	10			WALK-IN COOLER CONDENSER UNIT
WATER HEATER		12		20	10	27						10		
			12										10	
RECEPTACLE OFFICE	5			20	12	31		32	12	20*	5			EMERGENCY CALL AND RECPTS
CCTV CAMERA		4		20	10	33		34	12	20		5		RECEPTACLES
WALK-IN BEER COOLER APPLIANCE			9	20	12	35		36	–	–			–	SPACE
SPACE	–			–	–	37		38	–	–	–			SPACE
SPACE		–		–	–	39		40	–	–		–		SPACE
SPACE			–	–	–	41		42	–	–			–	SPACE
TOTAL ESTIMATED LOAD	62.4	60.6.	69								67	67	62	TOTAL EATIMATED LOAD

① TOTAL ESTIMATED CONNECTED LOAD AMPS A: 129 B: 100 C: 107

* DENOTES EXISTING.

① USE UFC3-501-01 NAVY CODE 740 01 EXCHANGE RETAIL STORE DEMAND FACTOR (DF = 0.65) FOR ESTIMATED CONTINUOUS LOAD.

EXISTING PANELBOARD "E12" SCHEDULE

232

225A, MAIN LUGS ONLY, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	B	C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	B	C	LOAD SERVED
MEZZANINE LIGHTING	*			20*	*	1		2	*	20*	*			MEZZANINE LIGHTING
MEZZANINE LIGHTING		*		20*	*	3		4	*	20*		*		MEZZANINE LIGHTING
MEZZANINE LIGHTING			*	20*	*	5		6	*	20*			*	MEZZANINE LIGHTING
MEZZANINE LIGHTING	*			20*	*	7		8	*	20*	*			MEZZANINE LIGHTING
MEZZANINE LIGHTING		*		20*	*	9		10	*	20*		*		EMERG & MECH ROOM LTG
MEZZANINE LIGHTING			*	20*	*	11		12	*	20*			*	MEZZANINE LIGHTING
MEZZANINE LIGHTING	*			20*	*	13		14	*	20*	*			MEZZANINE LIGHTING
MEZZANINE LIGHTING		*		20*	*	15		16	*	20*		*		MEZZANINE LIGHTING
MEZZANINE LIGHTING			*	20*	*	17		18	*	20*			*	MEZZANINE LIGHTING
MEZZANINE LIGHTING	*			20*	*	19		20	*	20*	*			MEZZANINE LIGHTING
MEZZANINE LIGHTING		*		20*	*	21		22	*	20*		*		MEZZANINE LIGHTING
MEZZANINE RECEPTACLES			*	20*	*	23		24	*	20*			*	MEZZANINE RECEPTACLES
COLUMN RECEPTACLES	4			20*	12	25		26	12	20*	4			SALES AREA LIGHTING
COLUMN RECEPTACLES		4		20*	12	27		28	12	20*		10		STRIP LIGHTING
COLUMN RECEPTACLES			4	20*	12	29		30	12	20*			8	SALES AREA LIGHTING
COLUMN RECEPTACLES	4			20*	12	31		32	12	20*	8			SALES AREA LIGHTING
SPARE		–		20*	–	33		34	12	20*		8		SALES AREA LIGHTING
COLUMN RECEPTACLES			4	20*	12	35		36	*	20*			*	POWER AM SPLITTER
*	*			20*	*	37		38	12	20*	8			SALES AREA LIGHTING
*		*		20*	*	39		40	10	20*		6		CAMERA BUILDING
*			*	20*	*	41		42	*	20*			*	*
TOTAL ESTIMATED LOAD	8	4	8								20	18	8	TOTAL EATIMATED LOAD

① TOTAL ESTIMATED CONNECTED LOAD AMPS A: 28 B: 22 C: 16

* DENOTES EXISTING.

① USE UFC3-501-01 NAVY CODE 740 01 EXCHANGE RETAIL STORE DEMAND FACTOR (DF = 0.65) FOR ESTIMATED CONTINUOUS LOAD.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-14
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Trumfield
FOR COMMANDER NAVFAC

ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES BAS DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NAVAL STATION
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
PANELBOARD SCHEDULES

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667862
SHEET 218 OF 248
E-605

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CTV\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:08pm USER: dlawson

PANELBOARD "EL1" SCHEDULE

235

400A, 300A MCB, 208Y/120V, 3 PHASE, 4 WIRE, 10 KAIC MIN, SURFACE MOUNT

LOAD SERVED	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B C	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	LOAD (AMP) B	LOAD (AMP) C	LOAD SERVED
SALES AREA LIGHTING	12			20	10	1		2	10	20	9			STRIP LIGHTING
SALES AREA LIGHTING		12		20	10	3		4	10	20		10		SALES AREA LIGHTING
SALES AREA LIGHTING			12	20	10	5		6	10	20			12	SALES AREA LIGHTING
SALES AREA LIGHTING	12			20	10	7		8	10	20	11			SALES AREA LIGHTING
SALES AREA LIGHTING		10		20	10	9		10	10	20		10		SALES AREA LIGHTING
STRIP LIGHTING			9	20	10	11		12	10	20			10	SALES AREA LIGHTING
SALES AREA LIGHTING	8			20	10	13		14	10	20	12			SALES AREA LIGHTING
SALES AREA LIGHTING		9		20	10	15		16	10	20		12		SALES AREA LIGHTING
SALES AREA LIGHTING			8	20	10	17		18	10	20			9	STRIP LIGHTING
FITTING AND UTILITY RM LTG	6			20	12	19		20	10	20	12			SALES AREA LIGHTING
FITTING RM LTG		5		20	12	21		22	10	20		10		FURNITURE LIGHTING
SPARE			–	20	–	23		24	10	20			10	FURNITURE LIGHTING
SPARE	–			20	–	25		26	10	20	5			LOBBY LIGHTING
SPARE		–		20	–	27		28	10	20		6		LOCKERS, LOUNGE, TOILET LTG
SPARE			–	20	–	29		30	–	20			–	SPARE
SPARE	–			20	–	31		32	–	20	–			SPARE
SPARE		–		20	–	33		34	–	20		–		SPARE
SPARE			–	20	–	35		36	–	20			–	SPARE
ESCALATOR LIGHTING	10			20	10	37		38	–	20	–			SPARE
OFFICES		13		20	10	39		40	–	20		–		SPARE
OFFICES			11	20	10	41		42	–	20			–	SPARE
SPARE	–			20	–	43		44	–	20	–			SPARE
SPARE		–		20	–	45		46	–	20		–		SPARE
SPARE			–	20	–	47		48	–	20			–	SPARE
SPACE	–			–	–	49		50	–	–	–			SPACE
SPACE		–		–	–	51		52	–	–		–		SPACE
SPACE			–	–	–	53		54	–	–			–	SPACE
SPACE	–			–	–	55		56	–	–	–			SPACE
SPACE		–		–	–	57		58	–	–		–		SPACE
SPACE			–	–	–	59		60	–	–			–	SPACE
SPACE	–			–	–	61		62	–	–	–			SPACE
SPACE		–		–	–	63		64	–	–		–		SPACE
SPACE			–	–	–	65		66	–	–			–	SPACE
SPACE	–			–	–	67		68	–	–	–			SPACE
SPACE		–		–	–	69		70	–	–		–		SPACE
SPACE			–	–	–	71		72	–	–			–	SPACE
SPACE	–			–	–	73		74	–	–	–			SPACE
SPACE		–		–	–	75		76	–	–		–		SPACE
SPACE			–	–	–	77		78	–	–			–	SPACE
SPACE	–			–	–	79		80	–	–	–			SPACE
TOTAL	48	49	40								49	48	41	TOTAL

TOTAL CONNECTED AMPS A: 97 B: 97 C: 81

PANELBOARD "TPP1" SCHEDULE

(1) 141

100A, MCB 50 A, 208/120V, 1 PHASE, 3 WIRE, 10 KAIC MIN, FLUSH MOUNT

LOAD SERVED	LOAD (AMP) A	LOAD (AMP) B	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	LOAD (AMP) B	LOAD SERVED
RACK RECEPTACLE	5		20	12	1		2	12	20	4		RM RECEPTACLES
RECEPTACLE		5	20	12	3		4	12	20		5	TELEPHONE BOARD RECEPTACLE
RM RECEPTACLES	4		20	12	5		6	–	20	–		SPARE
SPARE		–	20	–	7		8	–	20		–	SPARE
SPARE	–		20	–	9		10	–	–	–		SPACE
SPARE		–	20	–	11		12	–	–		–	SPACE
SPACE	–		–	–	13		14	–	–	–		SPACE
SPD		–	30	10	15		16	–	–		–	SPACE
	–						18	–	–	–		SPACE
TOTAL	9	5								4	5	TOTAL

TOTAL CONNECTED AMPS A: 13 B: 10

NOTES:

(1) PROVIDE INSULATED GROUND BUS SYSTEM.

PANELBOARD "TPP2" SCHEDULE

(1) 205

100A, MCB 50 A, 208/120V, 1 PHASE, 3 WIRE, 10 KAIC MIN, FLUSH MOUNT

LOAD SERVED	LOAD (AMP) A	LOAD (AMP) B	BRKR TRIP	WIRE SIZE	CKT NO	PHASE A B	CKT NO	WIRE SIZE	BRKR TRIP	LOAD (AMP) A	LOAD (AMP) B	LOAD SERVED
RACK RECEPTACLE	5		20	12	1		2	12	20	4		RM RECEPTACLES
RECEPTACLE		5	20	12	3		4	12	20		5	TELEPHONE BOARD RECEPT
RM RECEPTACLES	4		20	12	5		6	–	20	–		SPARE
SPARE		–	20	–	7		8	–	20		–	SPARE
SPARE	–		20	–	9		10	–	–	–		SPACE
SPARE		–	20	–	11		12	–	–		–	SPACE
SPACE	–		–	–	13		14	–	–	–		SPACE
SPD		–	30	10	15		16	–	–		–	SPACE
	–						18	–	–	–		SPACE
TOTAL	9	5								4	5	TOTAL

TOTAL CONNECTED AMPS A: 13 B: 10

NOTES:

(1) PROVIDE INSULATED GROUND BUS SYSTEM.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014

DES MED DRW KLB CHK SGR

PM/DM RDS/PJB

BRANCH MANAGER

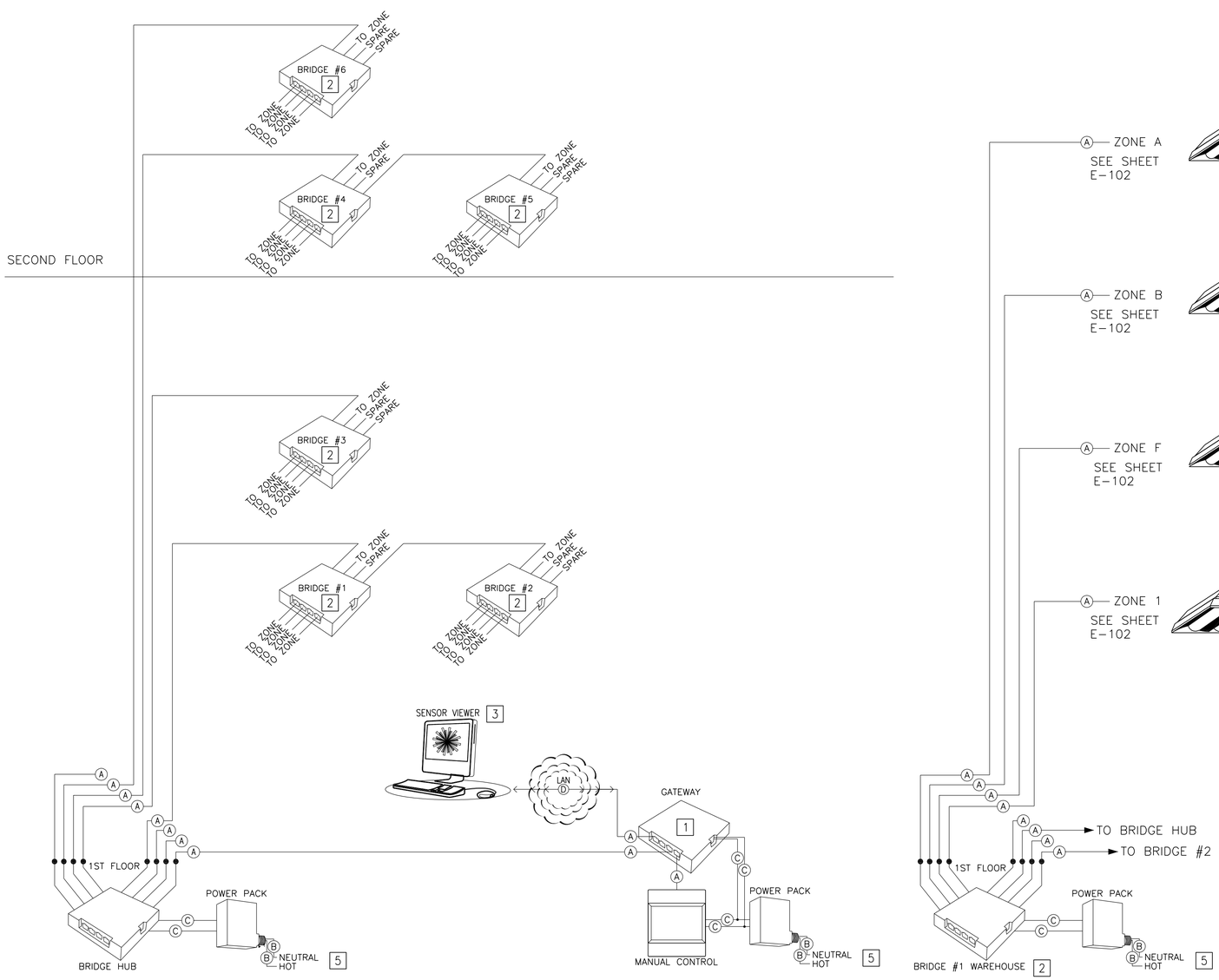
CHIEF ENG/ARCH DWG

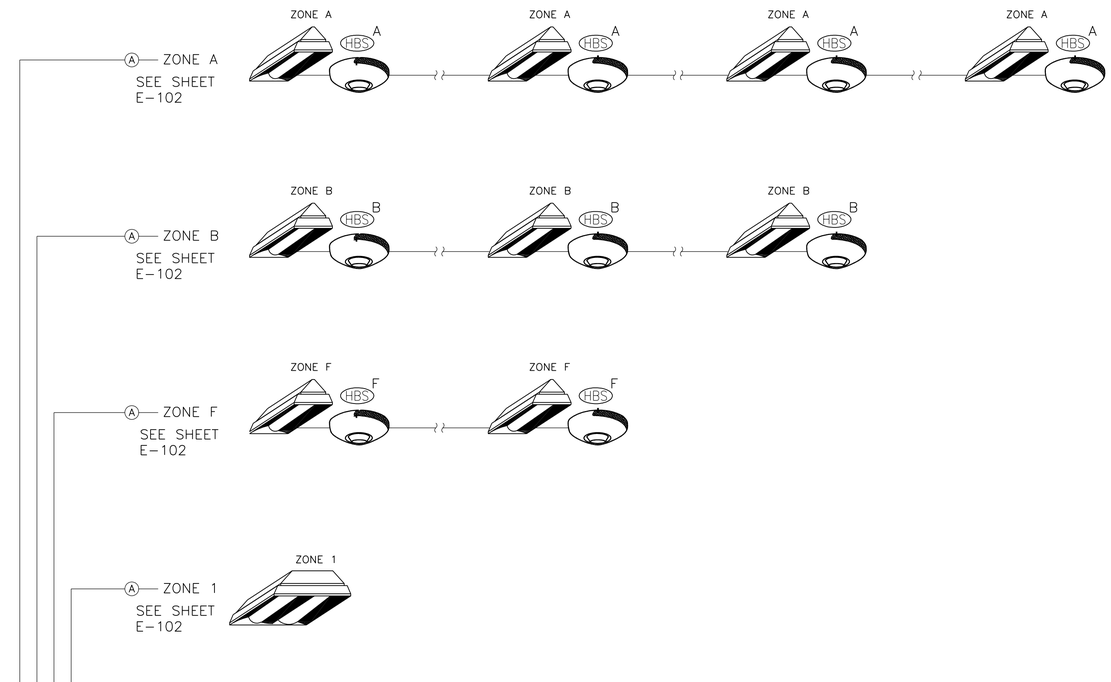
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
PANELBOARD SCHEDULES

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667863
SHEET 219 OF 248
E-606

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:08pm USER: dlawson





LIGHT CONTROL DIAGRAM 4

NO SCALE

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. SYSTEM NETWORK DEVICE (GATEWAY) REQUIRED TO IMPLEMENT PERSONAL CONTROL AND WHICH STORES PROFILES AND CONTAINS SYSTEM TIME CLOCK, PROVIDES LOCAL CONTROL POINT AND ETHERNET NETWORK ACCESS POINT. GATEWAY IS LOW VOLTAGE UNIT WALL MOUNT IN 2-GANG BOX.
2. NETWORK DEVICE (BRIDGE) LINKS MULTIPLE ROOMS TOGETHER AND ROUTES INFORMATION BETWEEN LIGHTING ZONES AND GATEWAY. BRIDGE SHALL HAVE RJ45 PORTS TO LINK ROOMS TO SYSTEM BACKBONE.
3. SENSOR VIEWER ALLOWS THE ENTIRE NETWORK BE VIEWED TOGETHER AND MANAGED FROM THE SENSOR VIEWER: WEB-BASED SUITE OF APPLICATIONS GIVES AUTHORIZED USERS THE ABILITY TO REMOTELY CONFIGURE AND MONITOR EVERY SYSTEM DEVICE.
4. LIGHTING CONTROL SYSTEM DEVICES AND LED TYPE LIGHTING FIXTURES SHALL BE INTERCONNECTED USING TELECOMMUNICATIONS CABLE CAT 5 OR CAT 6. COORDINATE ALL DEVICES LOCATION WITH BUILDING MANAGER.
5. COORDINATE POWER PACK LOCATION WITH BUILDING MANAGER AND CONNECT POWER PACK TO NEAREST LIGHTING FIXTURES HOMERUN.

WIRE LEGEND	
A	CAT 5 OR CAT 6 (LOW VOLTAGE)
B	CLASS 1 (LINE VOLTAGE)
C	CLASS 2 (LOW VOLTAGE)
D	ETHERNET LAN (LOW VOLTAGE)

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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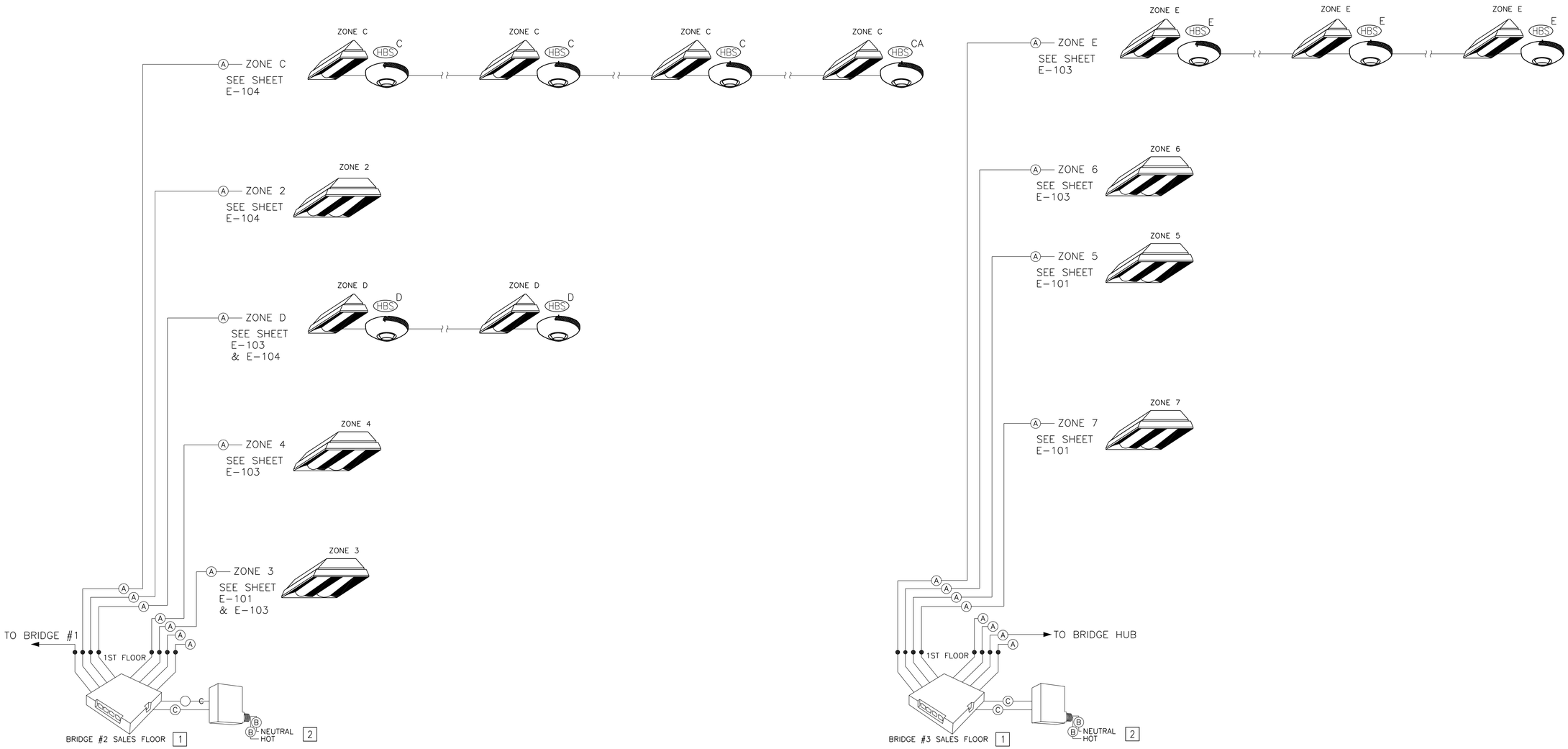
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES BAS DRW DJL CHK SGR
PM/DM BDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
LIGHT CONTROL DIAGRAMS

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667864
SHEET 220 OF 248
E-607

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:08pm USER: dlawson



LIGHT CONTROL DIAGRAM

NO SCALE

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. NETWORK DEVICE (BRIDGE) LINKS MULTIPLE ROOMS TOGETHER AND ROUTES INFORMATION BETWEEN LIGHTING ZONES AND GATEWAY. BRIDGE SHALL HAVE RJ45 PORTS TO LINK ROOMS TO SYSTEM BACKBONE.
2. COORDINATE POWER PACK LOCATION WITH BUILDING MANAGER AND CONNECT POWER PACK TO NEAREST LIGHTING FIXTURES HOMERUN.

WIRE LEGEND	
A	CAT 5 OR CAT 6 (LOW VOLTAGE)
B	CLASS 1 (LINE VOLTAGE)
C	CLASS 2 (LOW VOLTAGE)
D	ETHERNET LAN (LOW VOLTAGE)

SYM	DESCRIPTION	DATE	APPR

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NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
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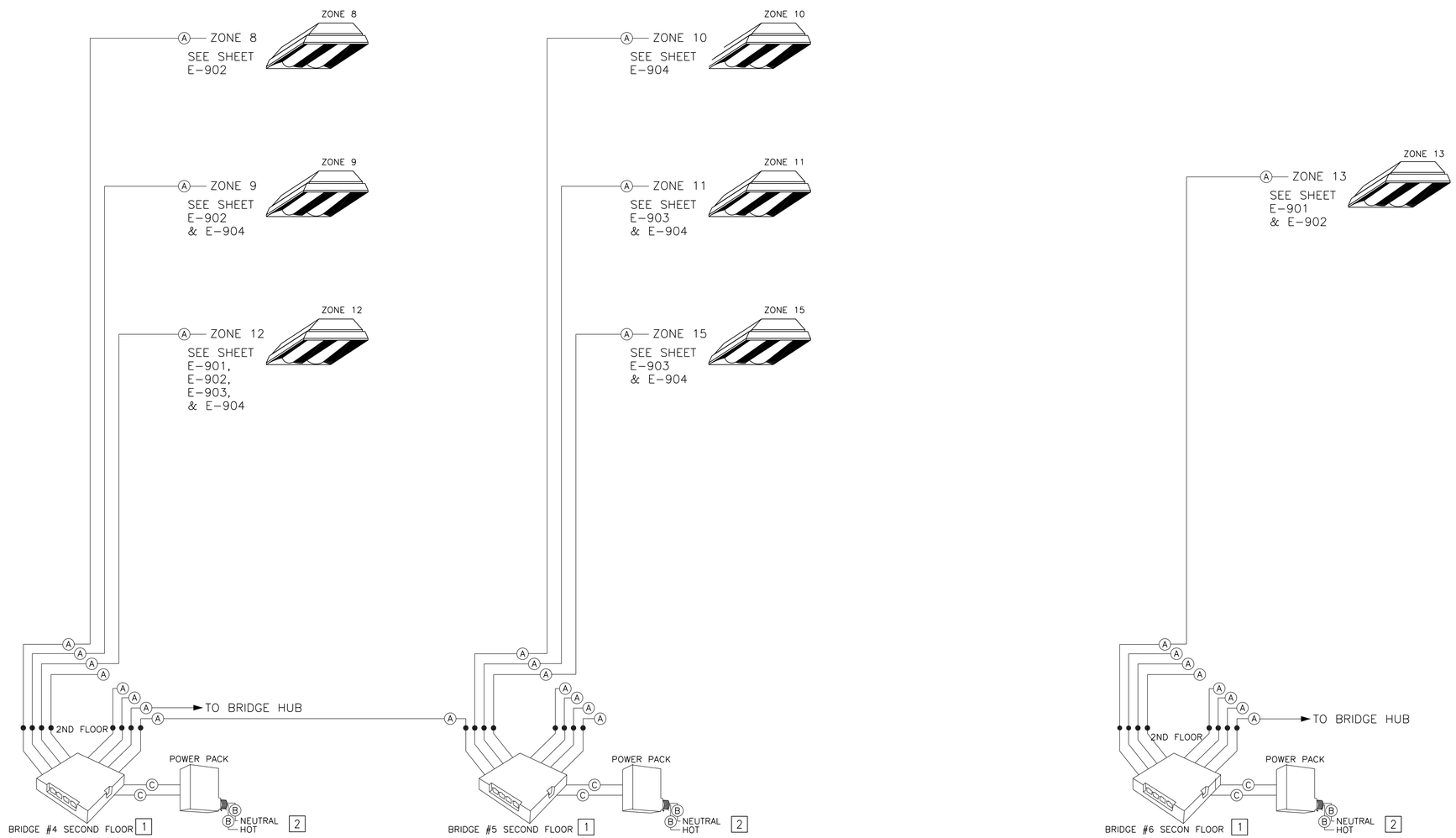
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
LIGHT CONTROL DIAGRAMS

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667865
SHEET 221 OF 248
E-608

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:08pm USER: dlawson



LIGHT CONTROL DIAGRAM

NO SCALE

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. NETWORK DEVICE (BRIDGE) LINKS MULTIPLE ROOMS TOGETHER AND ROUTES INFORMATION BETWEEN LIGHTING ZONES AND GATEWAY. BRIDGE SHALL HAVE RJ45 PORTS TO LINK ROOMS TO SYSTEM BACKBONE.
2. COORDINATE POWER PACK LOCATION WITH BUILDING MANAGER AND CONNECT POWER PACK TO NEAREST LIGHTING FIXTURES HOMERUN.

WIRE LEGEND	
A	CAT 5 OR CAT 6 (LOW VOLTAGE)
B	CLASS 1 (LINE VOLTAGE)
C	CLASS 2 (LOW VOLTAGE)
D	ETHERNET LAN (LOW VOLTAGE)

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NAVAL STATION GROTON, CT
NE IPT
SUBASE NEW LONDON
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
LIGHT CONTROL DIAGRAMS

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667866
SHEET 222 OF 248
E-609

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:08pm USER: dlawson

PHOTO 1
NO SCALE

PHOTO 2
NO SCALE

PHOTO 3
NO SCALE

PHOTO 4
NO SCALE

PHOTO 5
NO SCALE

PHOTO 6
NO SCALE

PHOTO 7
NO SCALE

PHOTO 8
NO SCALE

PHOTO 9
NO SCALE

PHOTO 10
NO SCALE

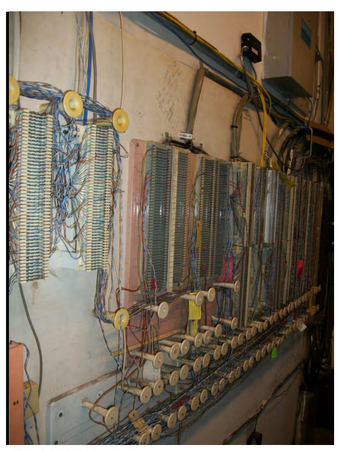


PHOTO 11
NO SCALE

PHOTO 12
NO SCALE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-16
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

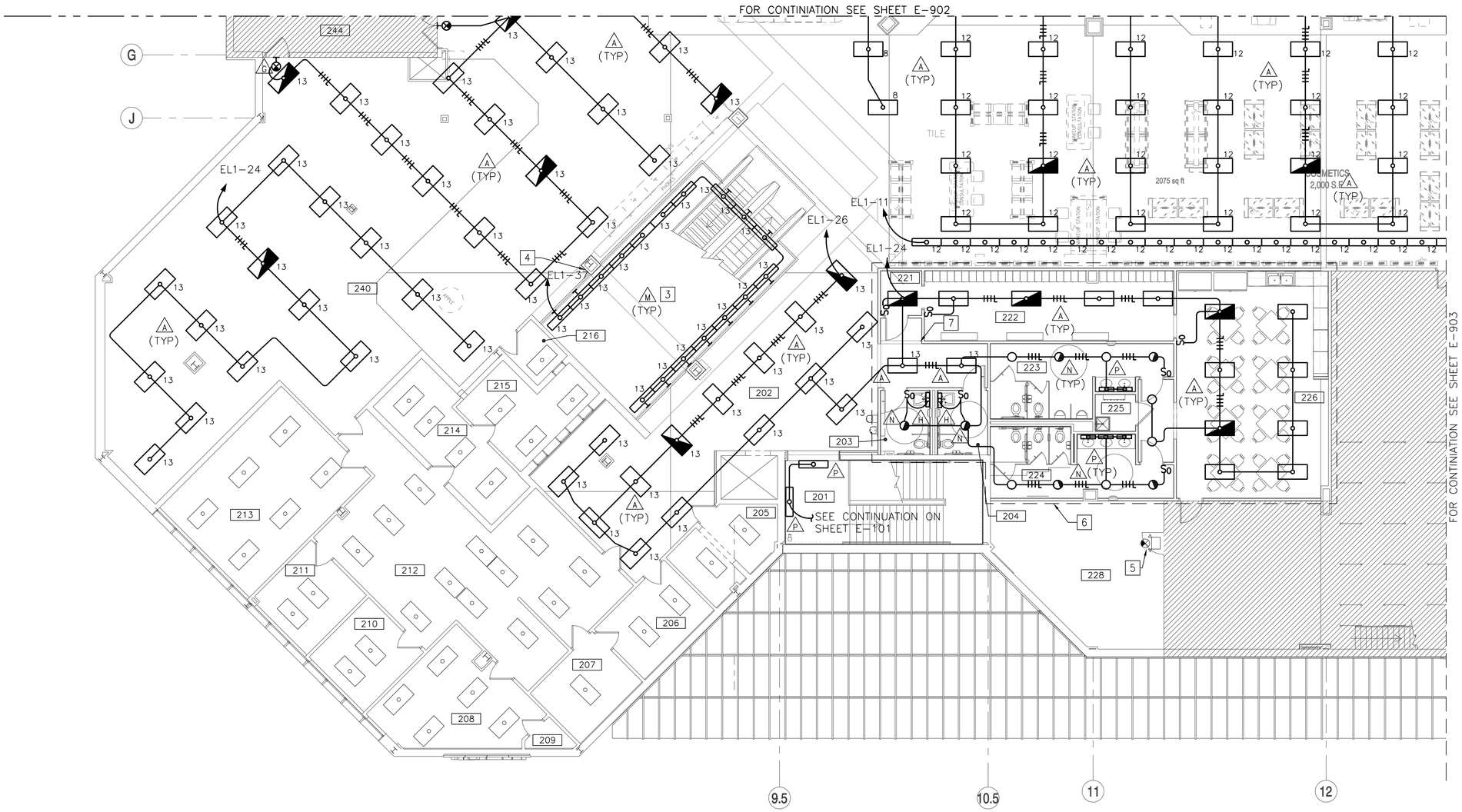
ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES MED DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
PHOTOS

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667867
SHEET 223 OF 248
E-801

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:08pm USER: dlawson



BID OPTION 1 - SECOND FLOOR LIGHTING PLAN - AREA 'A' 2

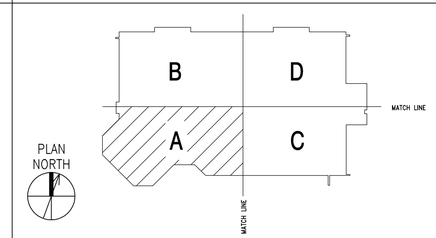
1/8" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. NOT USED.
2. REFER TO SHEET E-608 AND E-609 FOR BRIDGE #4 AND #6 ZONE 12 AND 13 CONTROL DIAGRAM.
3. ESCALATOR SOFFIT LIGHTING FIXTURES TYPE M WITH ALL CONDUIT WITH WIRING ARE PROVIDED PER BASE BID SHEET E-106.
4. REMOVE ESCALATOR SOFFIT LIGHTING CONTROL SWITCH BEING PROVIDED PER BASE BID AND PROVIDE CONTROL FROM nLIGHT ZONE 13.
5. RELOCATED EMERGENCY AND EXIT LIGHTING FIXTURES PER BASE BID.
6. LIGHTING IN THIS AREA SHALL BE PROVIDED PER BASE BID SHEET E-106.
7. REMOVE OCCUPANCY SENSOR SHOWN ON SHEET E-106.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

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FOR COMMANDER NAVFAC

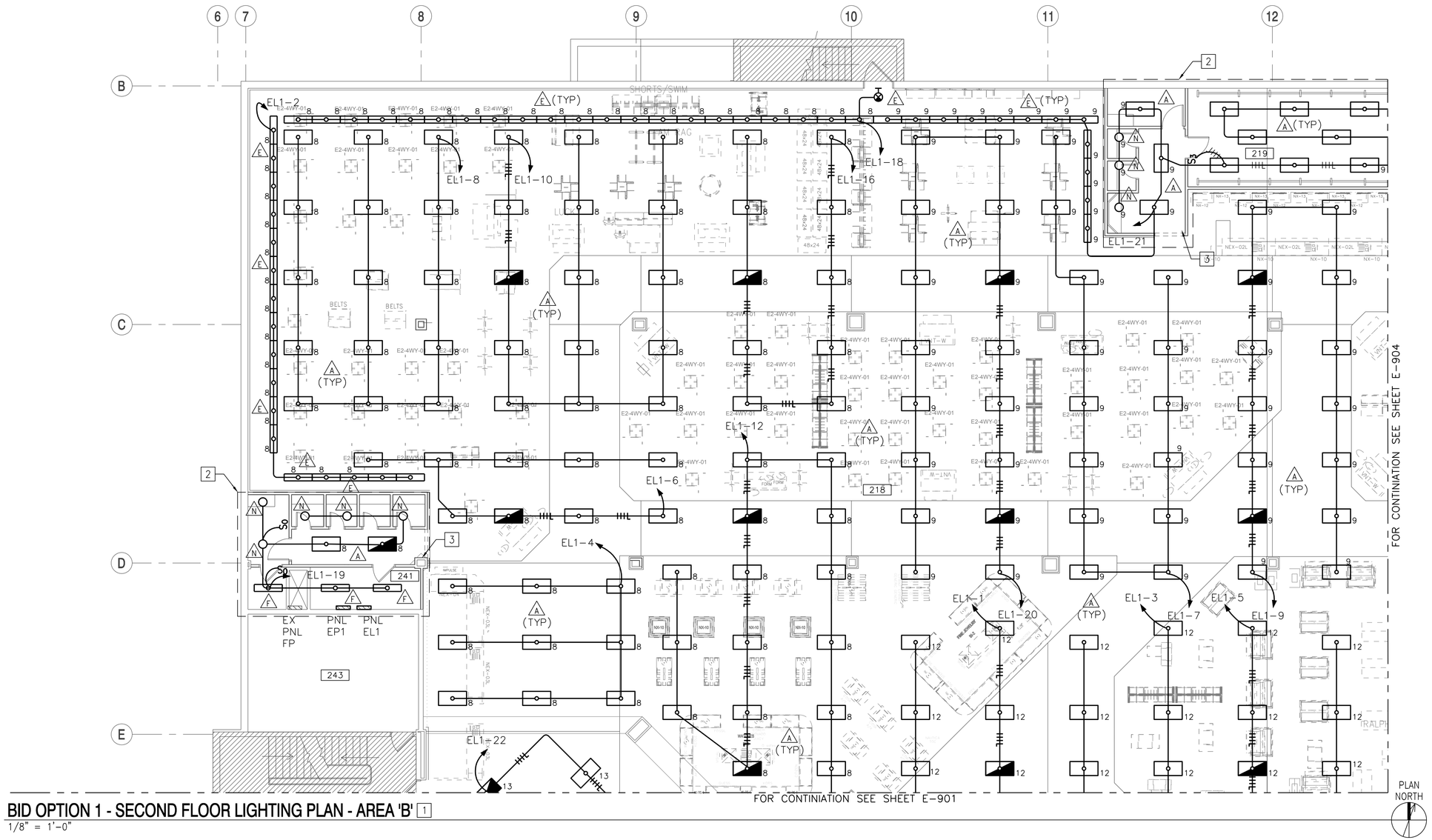
ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES BAS DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER JAS
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
BID OPTION 1 – SECOND FLOOR LIGHTING PLAN – AREA 'A'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667868
SHEET 224 OF 248
E-901

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:08pm USER: dlawson



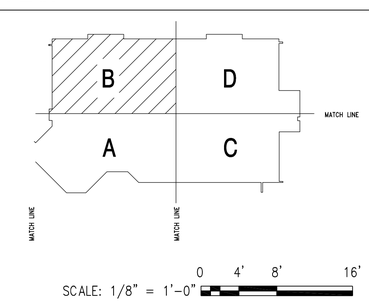
BID OPTION 1 - SECOND FLOOR LIGHTING PLAN - AREA 'B' 1

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. REFER TO SHEET E-608 AND E-609 FOR BRIDGE #4 AND #6 ZONE 8, 9, 12, AND 13 CONTROL DIAGRAM.
2. LIGHTING FIXTURES WITH ALL CONDUIT WITH WIRING SHALL BE PROVIDED PER BASE BID SHEET E-107.
3. REMOVE OCCUPANCY SENSOR BEING PROVIDED PER BASE BID.

KEY PLAN



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COMMONWEALTH OF VIRGINIA
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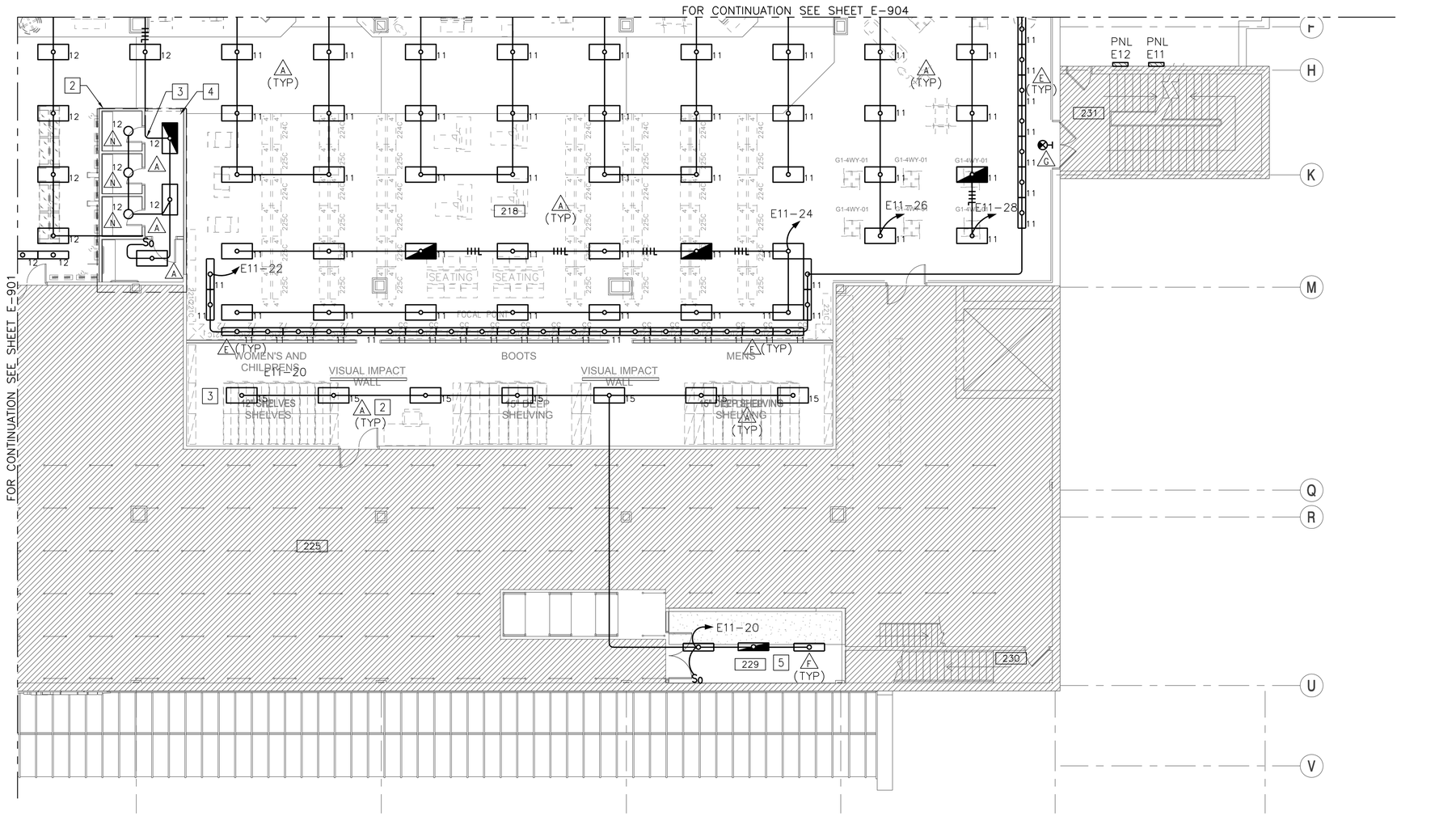
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NE IPT
NAVAL STATION – GROTON, CT
SUBASE NEW LONDON
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
BID OPTION 1 – SECOND FLOOR LIGHTING PLAN – AREA 'B'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667869
SHEET 225 OF 248
E-902

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:09pm USER: dlawson



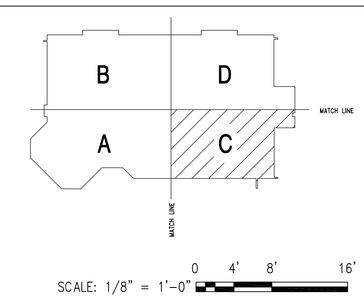
BID OPTION 1 - SECOND FLOOR LIGHTING PLAN - AREA 'C' 1

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. REFER TO SHEET E-608 FOR BRIDGE #4 AND #5 ZONE 11, 12, AND 15 CONTROL DIAGRAM.
2. LIGHTING FIXTURES WITH ALL CONDUIT WITH WIRING SHALL BE PROVIDED PER BASE BID SHEET E-108. PROVIDE LIGHTING CONTROL FROM LIGHTING ZONE SHOWN.
3. DISCONNECT POWER HOMERUN BEING PROVIDED PER BASE BID AND CONNECT TO HOMERUN SHOWN.
4. REMOVE OCCUPANCY SENSOR BEING PROVIDED PER BAS BID.
5. LIGHTING FIXTURES WITH ALL CONDUIT WITH WIRING SHALL BE PROVIDED PER BASE BID SHEET E-108.

KEY PLAN



SYM	DESCRIPTION	DATE	APPR

S. G. Roberts
Lic. No.10424
5-15-15
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

APPROVED BY: David W. Grunfeld
FOR COMMANDER NAVFAC

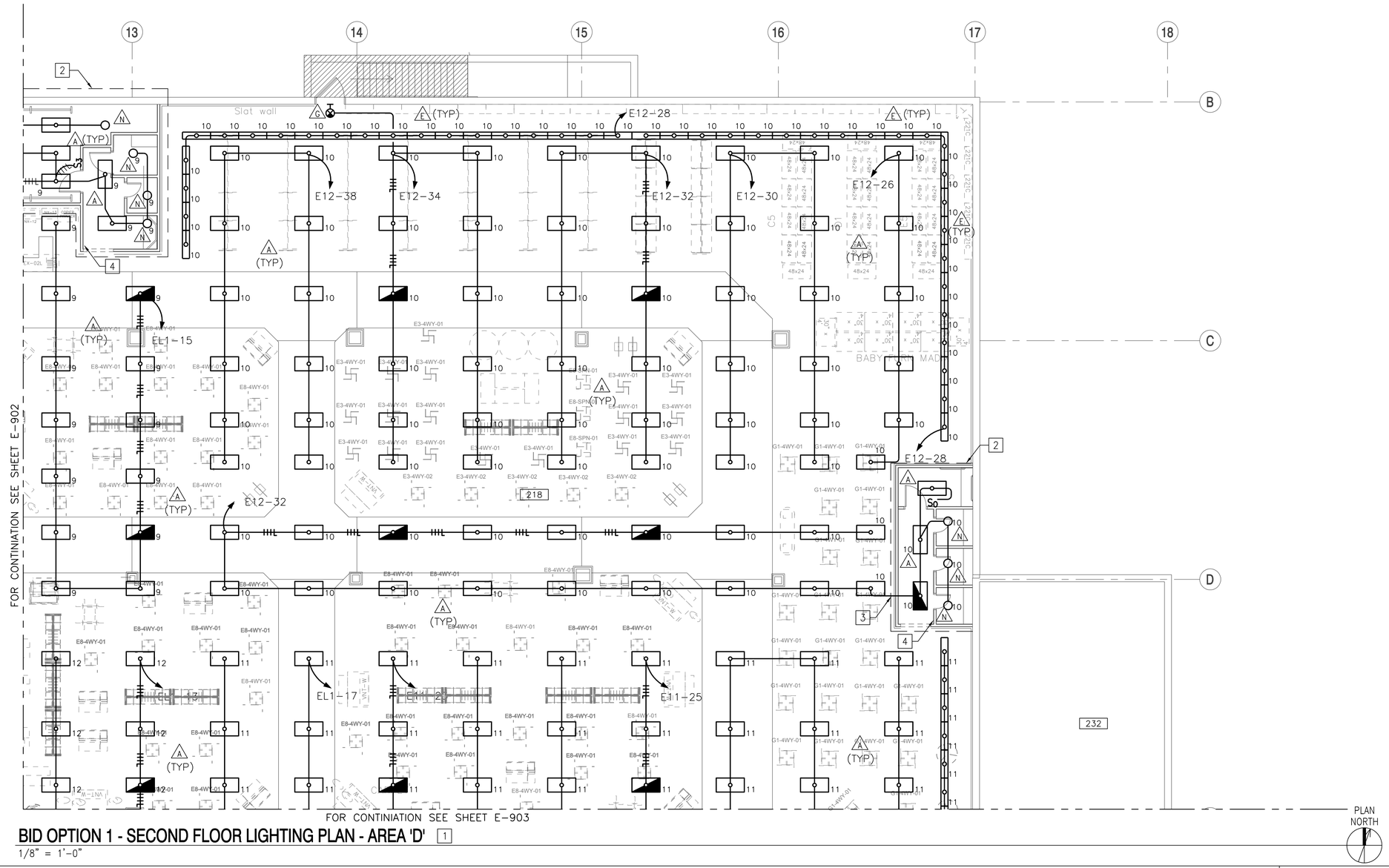
ACTIVITY: CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES BAS DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NAVAL STATION – GROTON, CT
NE IPT
SUBASE NEW LONDON
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
BID OPTION 1 – SECOND FLOOR LIGHTING PLAN – AREA 'C'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667870
SHEET 226 OF 248
E-903

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:09pm USER: dlawson



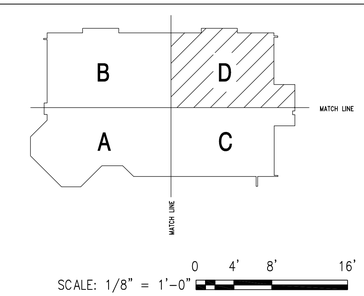
BID OPTION 1 - SECOND FLOOR LIGHTING PLAN - AREA 'D' 1

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. REFER TO SHEET E-608 FOR BRIDGE #4 AND #5 ZONE 9, 10, 11, AND 12 CONTROL DIAGRAM.
2. LIGHTING FIXTURES WITH ALL CONDUIT WITH WIRING SHALL BE PROVIDED PER BASE BID SHEET E-109. REMOVE OCCUPANCY SENSOR AND PROVIDE LIGHTING CONTROL FROM LIGHTING ZONE SHOWN.
3. DISCONNECT POWER HOME RUN BEING PROVIDED PER BASE BID AND CONNECT TO HOMERUN SHOWN.
4. REMOVE OCCUPANCY SENSOR BEING PROVIDED PER BAS BID.

KEY PLAN



SYM	DESCRIPTION	DATE	APPR

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FOR COMMANDER NAVFAC
ACTIVITY CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION
SATISFACTORY TO DATE 07JUL2014
DES BAS DRW DJL CHK SGR
PM/DM RDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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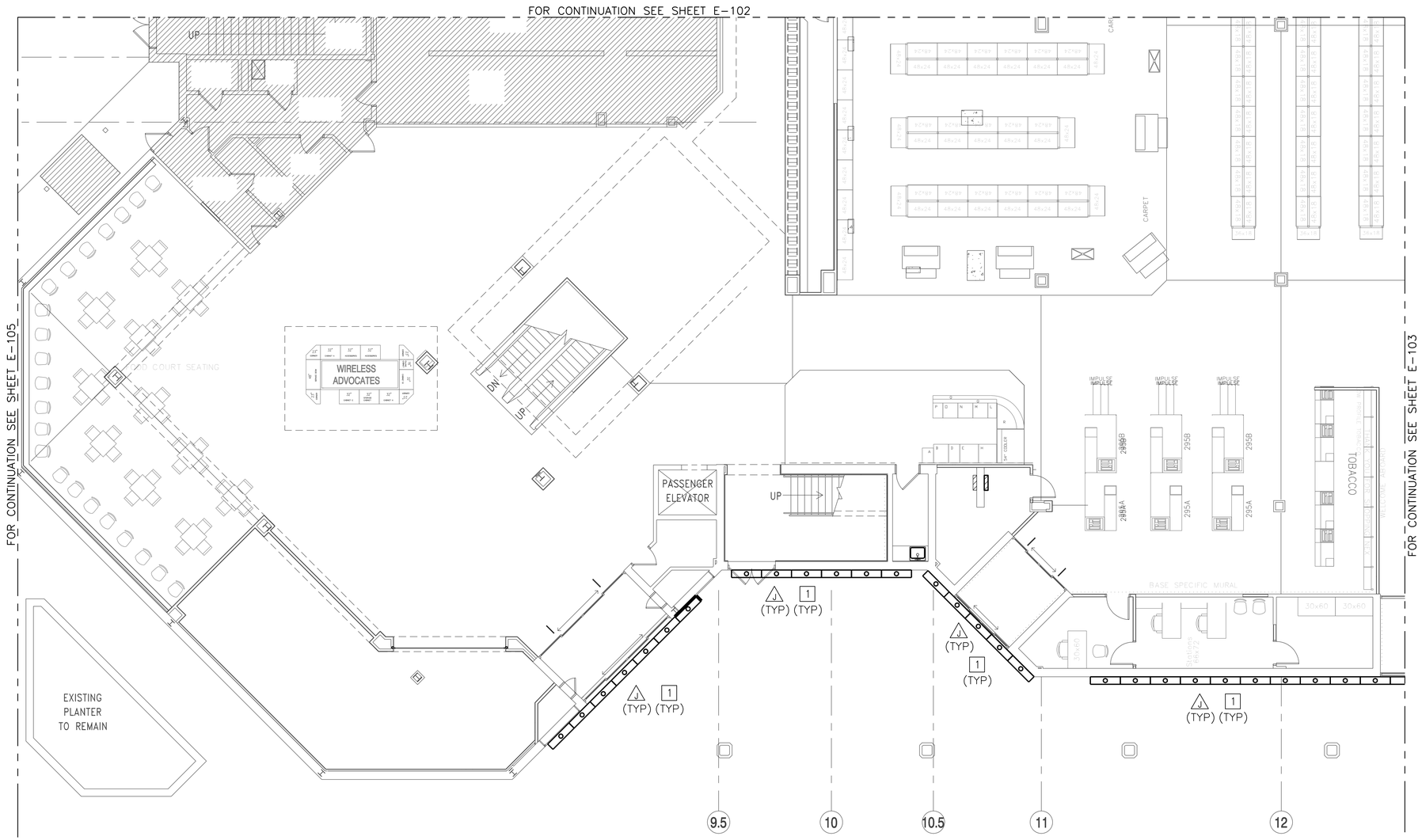
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
BID OPTION 1 – SECOND FLOOR LIGHTING PLAN – AREA 'D'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667871
SHEET 227 OF 248
E-904

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:09pm USER: dlawson



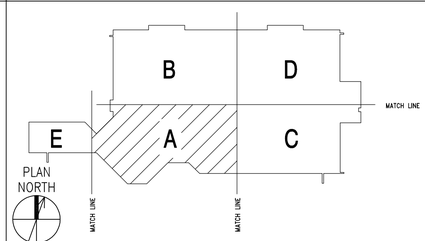
BID OPTION 2 - FIRST FLOOR LIGHTING PLAN - AREA 'A'

1/8" = 1'-0"

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. REPLACE EXISTING EXTERIOR LIGHTING WITH LED TYPE EXTERIOR LIGHTING FIXTURE. REUSE EXISTING POWER DISTRIBUTION AND MAINTAIN CONTINUITY AS REQUIRED.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

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FOR COMMANDER NAVFAC

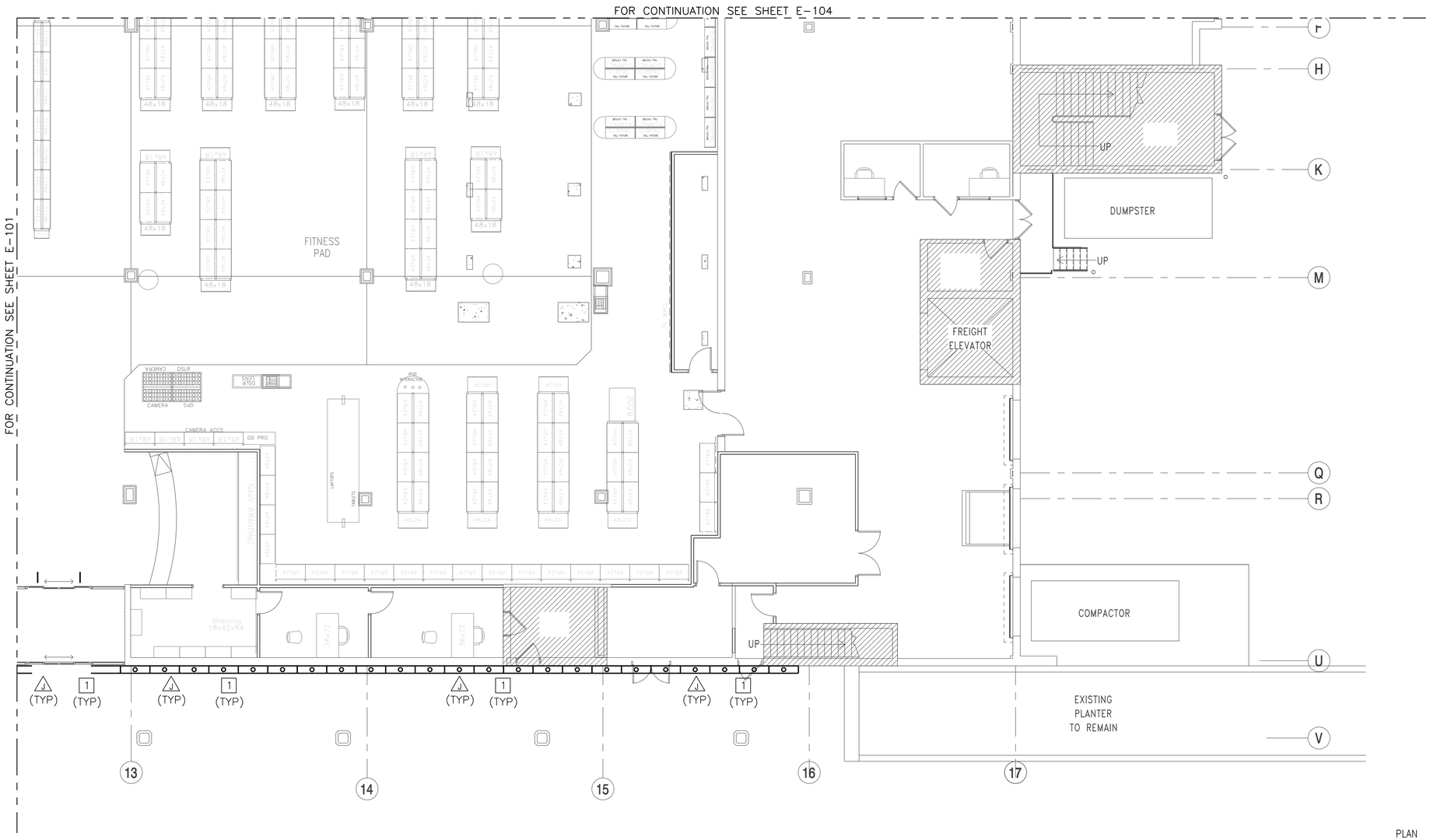
ACTIVITY
CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES BAS DRW DJL CHK SGR
PM/DM BDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – NORFOLK, VIRGINIA
NAVAL STATION – GROTON, CT
NE IPT
SUBASE NEW LONDON
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
BID OPTION 2 – FIRST FLOOR LIGHTING PLAN – AREA 'A'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667872
SHEET 228 OF 248
E-905

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:09pm USER: dlawson



BID OPTION 2 - FIRST FLOOR LIGHTING PLAN - AREA 'C' 1

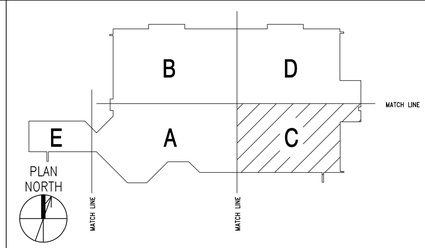
1/8" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. REPLACE EXISTING EXTERIOR LIGHTING WITH LED TYPE EXTERIOR LIGHTING FIXTURE. REUSE EXISTING POWER DISTRIBUTION AND MAINTAIN CONTINUITY AS REQUIRED.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

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FOR COMMANDER NAVFAC

ACTIVITY: CDR MARC BERNATH NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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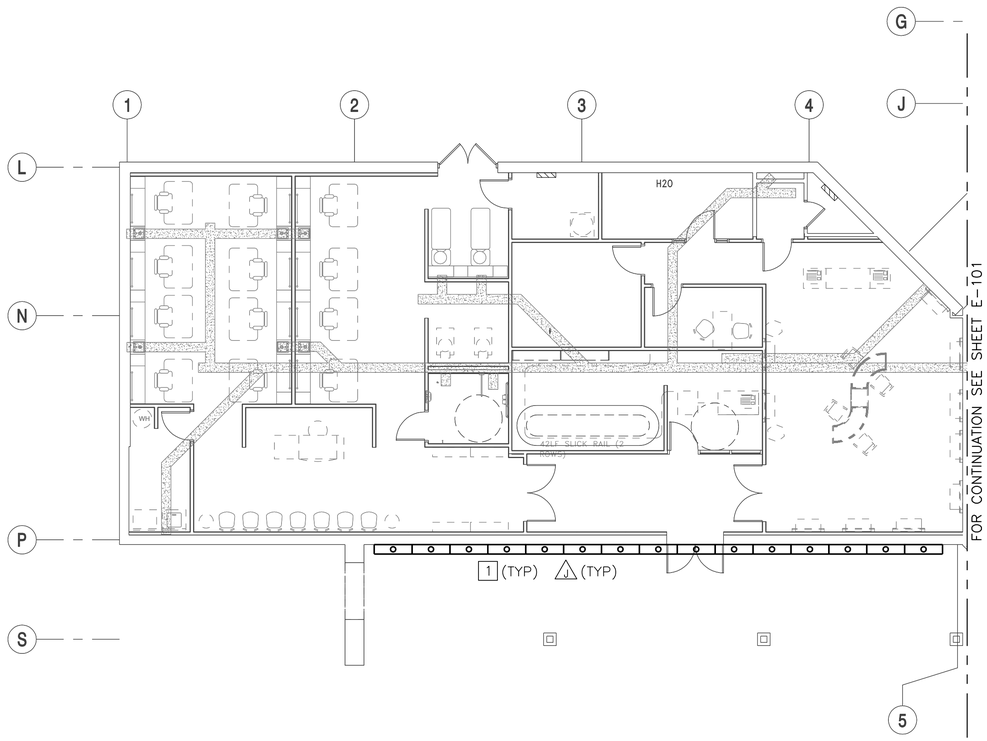
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
BID OPTION 2 – FIRST FLOOR LIGHTING PLAN – AREA 'C'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667873
SHEET 229 OF 248
E-906

FILE NAME: G:\2012\12-032A NEX MAIN STORE - CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 - 3:09pm USER: dlawson



BID OPTION 2 - FIRST FLOOR LIGHTING PLAN - AREA 'E'

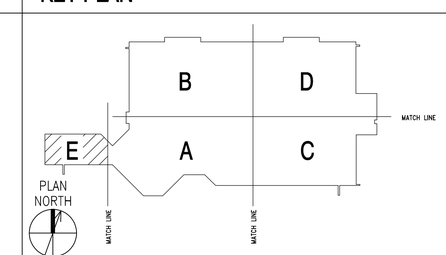
1/8" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES (THIS SHEET ONLY)

1. REPLACE EXISTING EXTERIOR LIGHTING WITH LED TYPE EXTERIOR LIGHTING FIXTURE. REUSE EXISTING POWER DISTRIBUTION AND MAINTAIN CONTINUITY AS REQUIRED.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
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5-15-16
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CDR MARC BERNATH
NEXCOM – FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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NAVAL STATION – NORFOLK, VIRGINIA
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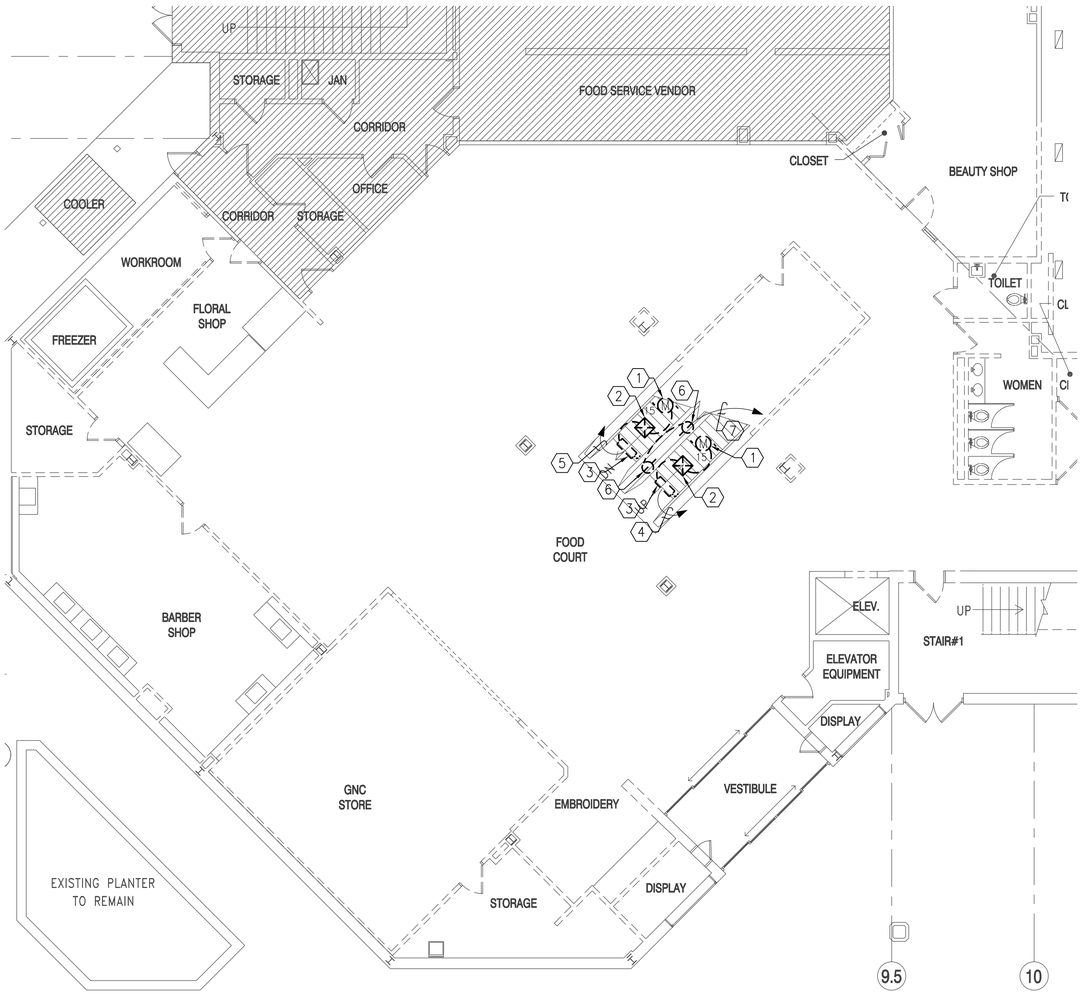
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
BID OPTION 2 – FIRST FLOOR LIGHTING PLAN – AREA 'E'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667874
SHEET 230 OF 248
E-907

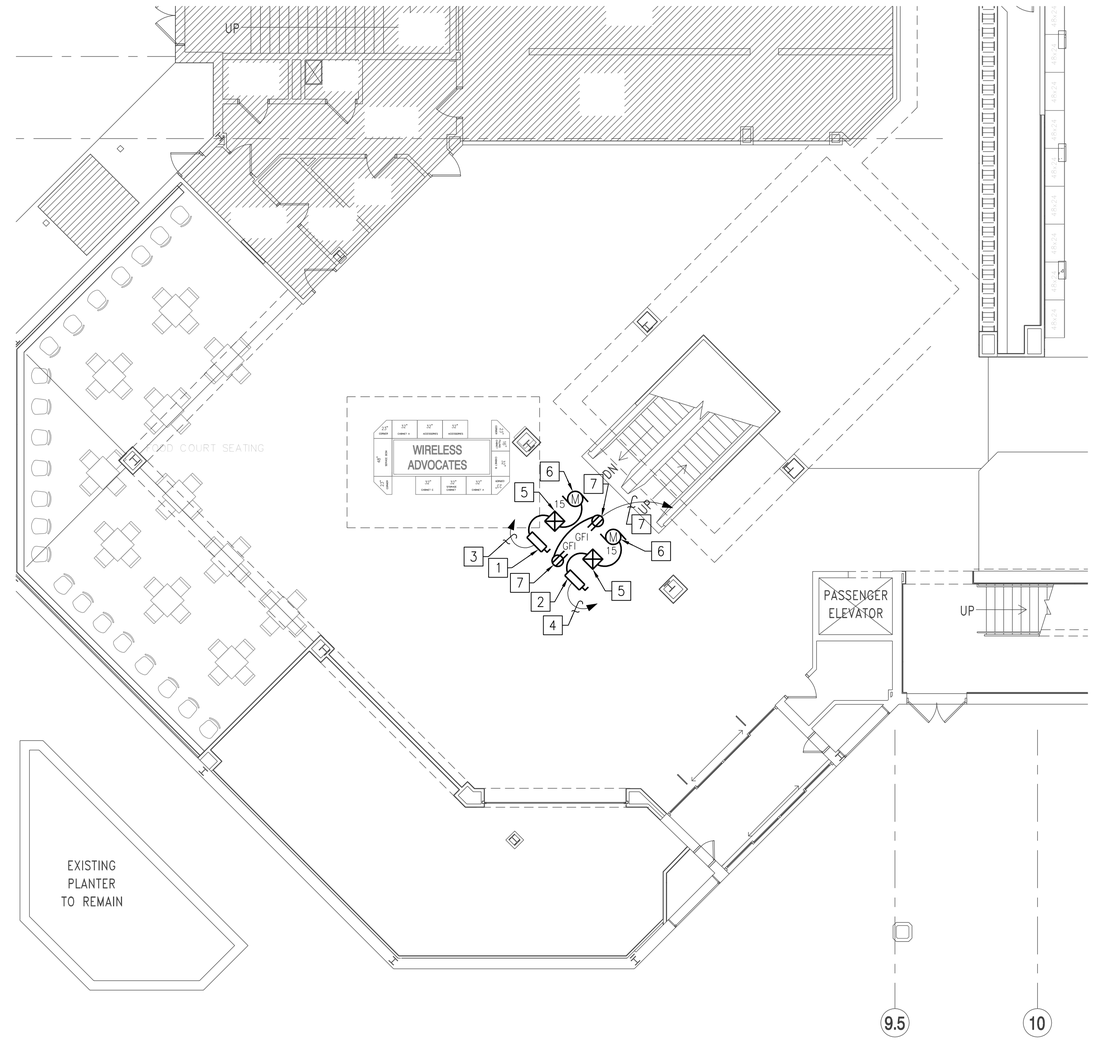
FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:10pm USER: dlawson



BID OPTION 3 - FIRST FLOOR DEMOLITION PLAN - AREA 'A'

1/8" = 1'-0"

PLAN NORTH



BID OPTION 3 - FIRST FLOOR POWER PLAN - AREA 'A'

1/8" = 1'-0"

PLAN NORTH

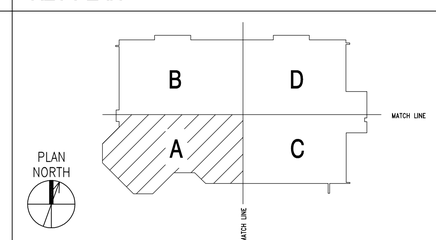
DEMOLITION KEYNOTES (THIS SHEET ONLY)

1. DISCONNECT EXISTING ESCALATOR – 15 H.P., 208V, 3ø.
2. EXISTING NEMA 2 STARTER – REMOVE AND REINSTALL.
3. EXISTING DISCONNECT SWITCH 3P 100/100 – REMOVE AND REINSTALL.
4. EXISTING BRANCH CIRCUIT E2-27 (FOUR #6 & ONE #8 GND IN 1-1/2" GRS) – REMAINS.
5. EXISTING BRANCH CIRCUIT E2-28 (FOUR #6 & ONE #8 GND IN 1-1/2" GRS).
6. EXISTING DUPLEX RECEPTACLE AND LIGHT LOCATED IN PIT. REMOVE RECEPTACLE AND LEAVE BRANCH CIRCUIT.
7. PIT LIGHTING & RECEPTACLE CIRCUIT E2-6 (TWO #12 & 1 #12 GND IN 3/4") – REMAINS.

KEYNOTES (THIS SHEET ONLY)

1. REINSTALL EXISTING DISCONNECT SWITCH 3P/100 AND RECONNECT TO EXISTING CIRCUIT E2-27.
2. REINSTALL EXISTING DISCONNECT SWITCH 3P/100 AND RECONNECT TO EXISTING CIRCUIT E2-28.
3. EXISTING CIRCUIT E2-28 (FOUR #6 & ONE #8 GND – 1-1/2" GRS).
4. EXISTING CIRCUIT E2-27 (FOUR #6 & ONE #8 GND – 1-1/2" GRS).
5. REINSTALL EXISTING NEMA 2 STARTER.
6. CONNECT ESCALATOR 15 H.P., 208V, 3ø.
7. INSTALL GFI NEMA 5-20R RECEPTACLE IN EXISTING BOX. LIGHT FIXTURE TO REMAIN.

KEY PLAN



SCALE: 1/8" = 1'-0" 0 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
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5-15-16
PROFESSIONAL ENGINEER

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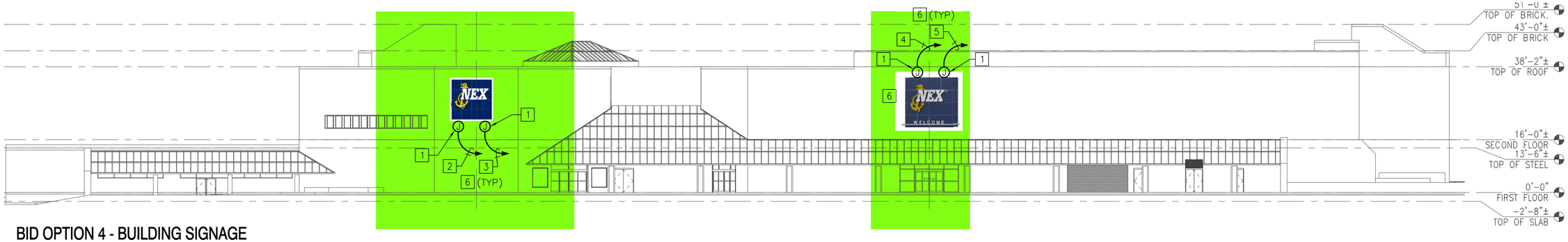
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION – NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
BID OPTION 3 – FIRST FLOOR POWER PLAN – AREA 'A'

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667875
SHEET 231 OF 248
E-908

FILE NAME: G:\2012\12-032A NEX MAIN STORE – CT\NAVIGATOR\NEX MAIN STORE EXPANSION & RENOVATION\Sheets\ PLOTTED: Thursday, May 14, 2015 – 3:10pm USER: dlawson



BID OPTION 4 - BUILDING SIGNAGE

1/16" = 1'-0"

KEYNOTES (THIS SHEET ONLY)

1. 4" SQ WEATHER PROOF JUNCTION BOX FOR POWER TO BUILDING SIGNAGE. COORDINATE EXACT LOCATION IN FIELD WITH SIGN MANUFACTURER
2. CONNECT EXISTING 20A, 1 POLE CIRCUIT BREAKER B1-5 WITH TWO #10 AND ONE #10 GND IN 3/4" GRS CONDUIT.
3. CONNECT EXISTING 20A, 1 POLE CIRCUIT BREAKER B1-7 WITH TWO #10 AND ONE #10 GND IN 3/4" GRS CONDUIT.
4. CONNECT EXISTING 20A, 1 POLE CIRCUIT, B1-9 WITH TWO #10 AND ONE #10 GND IN 3/4" GRS CONDUIT.
5. CONNECT EXISTING 20A, 1 POLE CIRCUIT, B1-5 WITH TWO #10 AND ONE #10 GND IN 3/4" GRS CONDUIT.
6. ROUT CONDUIT ON INTERIOR OF BUILDING AND KEEP OFF OF EXTERIOR.

GRAPHIC SCALE

NOTE: IF THIS DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED.

1/16"=1'-0" 0' 5' 10' 20' 30' 40' 50' 60'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
S. G. Roberts
Lic. No.10424
5-15-15
PROFESSIONAL ENGINEER

HBA

APPROVED
David W. Grunfeld
FOR COMMANDER NAVFAC

ACTIVITY
CDR MARC BERNATH
NEXCOM - FACILITIES DIVISION

SATISFACTORY TO DATE 07JUL2014
DES BAS DRW DJL CHK SGR
PM/DM BDS/PJB
BRANCH MANAGER
CHIEF ENG/ARCH DWG
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION - NORFOLK, VIRGINIA
NE IPT
SUBASE NEW LONDON
GROTON, CT
BLDG. 484 - NEX MAIN STORE EXPANSION & RENOVATION
BID OPTION 4 - BUILDING SIGNAGE

SCALE: GRAPHIC
EPROJECT NO. 1305708
CONSTR. CONTR. NO. N40085-14-C-5203
NAVFAC DRAWING NO. 12667876
SHEET 232 OF 248
E-909

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