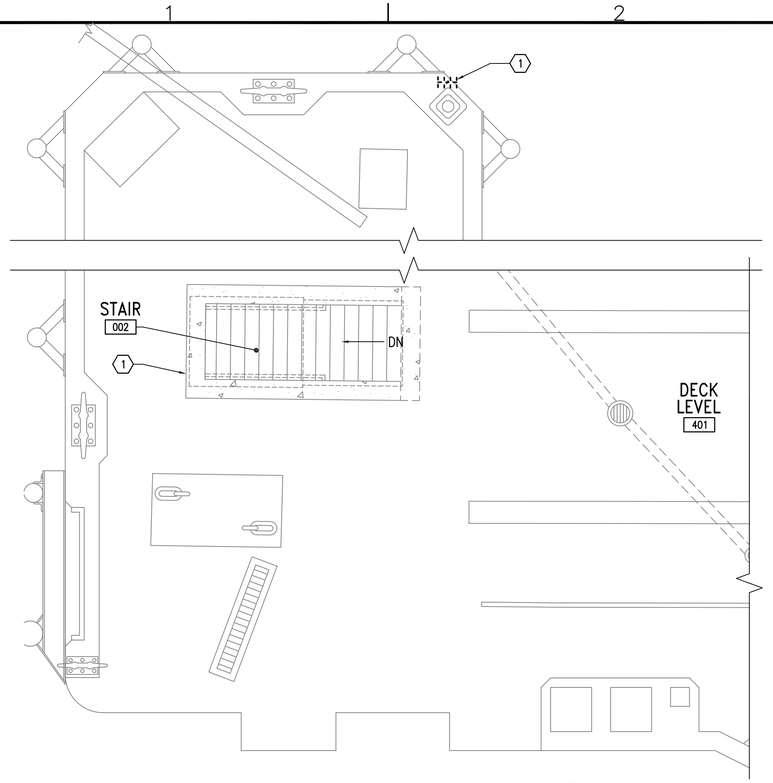
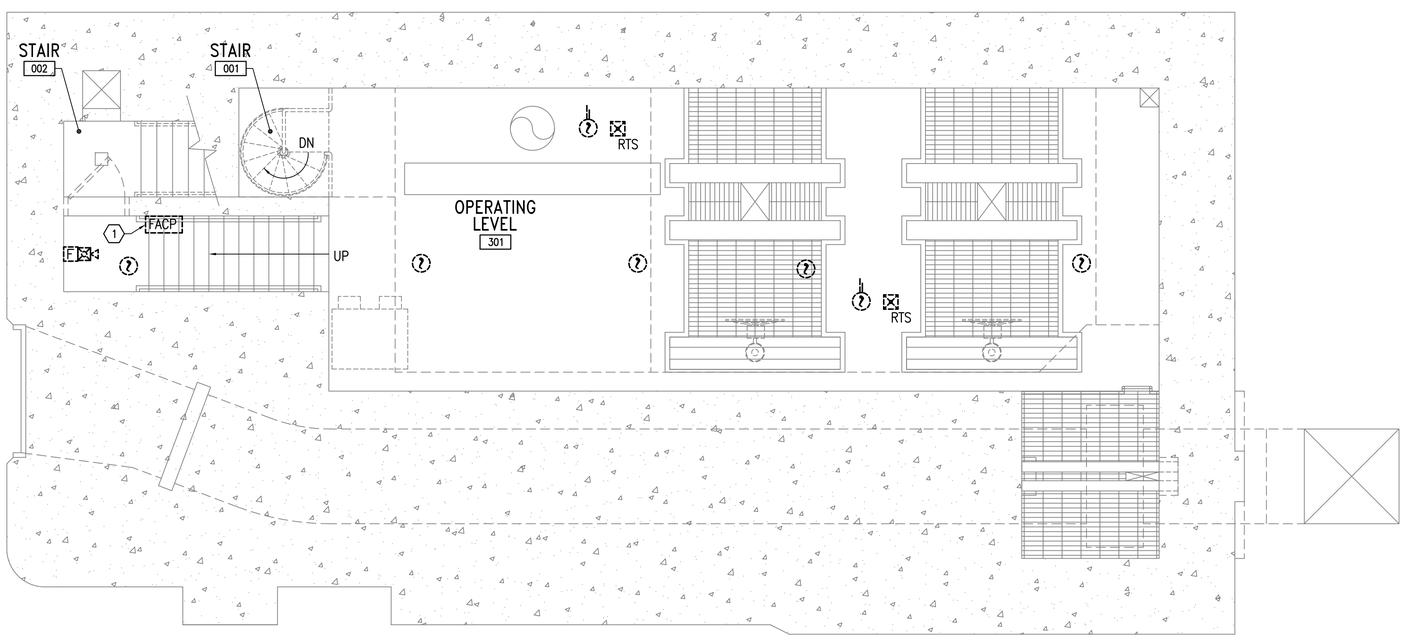



## DECK LEVEL FIRE ALARM REMOVALS PLAN (ELEV 9.72'±)

SCALE: 1/4"=1'-0" FD101 C2




## OPERATING LEVEL FIRE ALARM REMOVALS PLAN (ELEV -7.28'±)

SCALE: 1/4"=1'-0" FD101 A2

## REMOVALS GENERAL NOTES

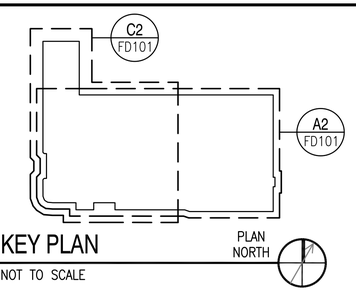
1. FIRE ALARM REMOVALS SHALL COMPLY WITH THE DEPARTMENT OF DEFENSE CURRENTLY ADOPTED EDITION OF NFPA, INCLUDING NFPA 70 AND 72.
2. DO NOT INTERRUPT EXISTING FIRE ALARM SERVICE WITHOUT WRITTEN PERMISSION FROM THE CONTRACTING OFFICER. COMPLY WITH UFC 3-601-02, BASE PROCEDURES AND NFPA 241. INTERRUPT EXISTING SYSTEM ONLY AFTER REPLACEMENT SYSTEM IS IN PLACE. IMPAIRMENT SHALL BE LIMITED TO A SINGLE OCCURRANCE AND SHALL OCCUR BETWEEN THE HOURS OF 0700 AND 1300.
3. REMOVAL OF FIRE ALARM SYSTEM SHALL INCLUDE DEVICES AND APPLIANCES AND ASSOCIATED WIRING INCLUDING CONDUCTORS, CABLES, CONDUIT, BOXES, AND FITTINGS BACK TO FACP. POWER WIRING REMOVAL SHALL INCLUDE WIRING FROM FACP.
4. REFER TO SHEET G-003 FOR ADDITIONAL NOTES.

## REMOVALS KEYNOTE

1 REMOVE EXISTING FIRE ALARM TRANSMITTER ANTENNA AND ASSOCIATED WIRING AND CONDUIT BACK TO PUMP WELL FACP TRANSMITTER. WIRING BETWEEN PUMP WELL AND ANTENNA IS 110'± IN LENGTH.

## REMOVALS FIRE ALARM SYMBOLS

| | |
|---|---|
| FACP | REMOVE FIRE ALARM CONTROL PANEL |
| | REMOVE DUCT SMOKE DETECTOR |
| | REMOVE SMOKE DETECTOR |
| | REMOVE HORN WITH STROBE |
| F | REMOVE MANUAL PULL STATION |
| RTS | REMOVE REMOTE INDICATOR AND TEST SWITCH |
| | REMOVE ANTENNA |




KEY PLAN

NOT TO SCALE

## GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| | FINAL SUBMISSION | JAN 07, 2015 | PFD |

NAVFAC

STATE OF MAINE LAURA E. CLEBAK No. 10417 LICENSED PROFESSIONAL ENGINEER 1/7/15

OAK POINT ASSOCIATES

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES LEC DRW SAS CHK PFD

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

# DRY DOCK #3 PUMP WELL REPAIRS

DECK LEVEL AND OPERATING LEVEL
FIRE ALARM REMOVALS PLANS

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686318

SHEET 50 OF 66

FD101 DD3-14-709

DRAWFORM REVISION: 10 MARCH 2009

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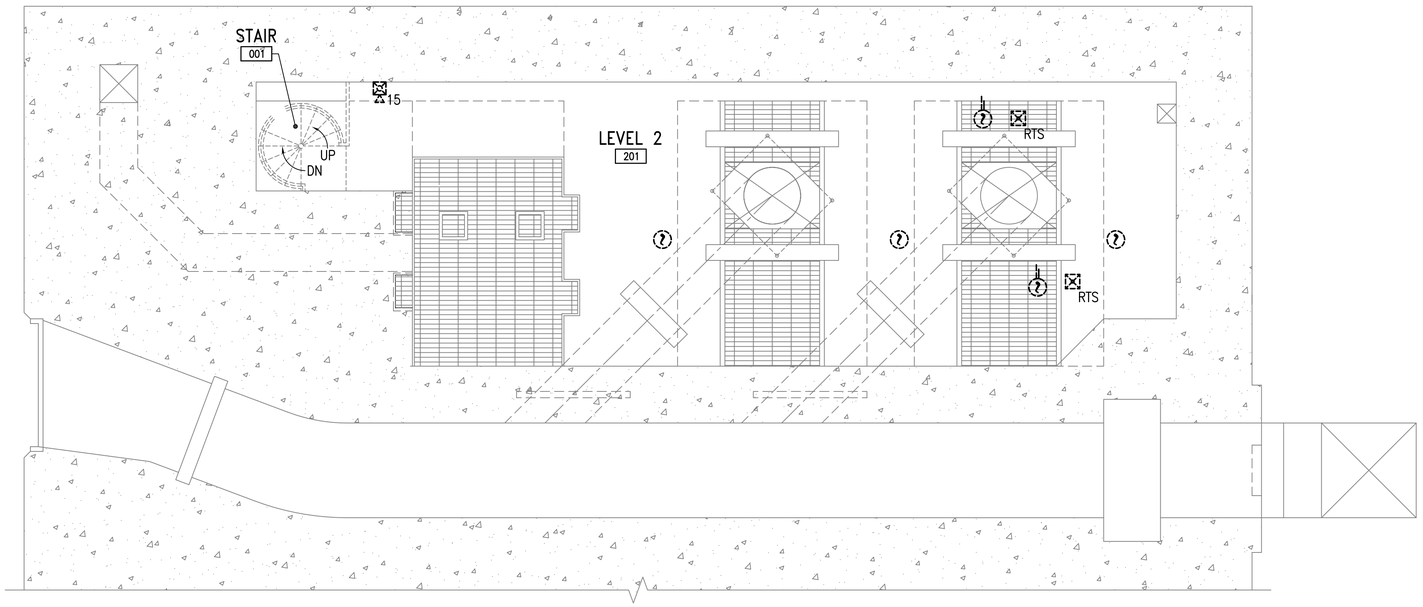
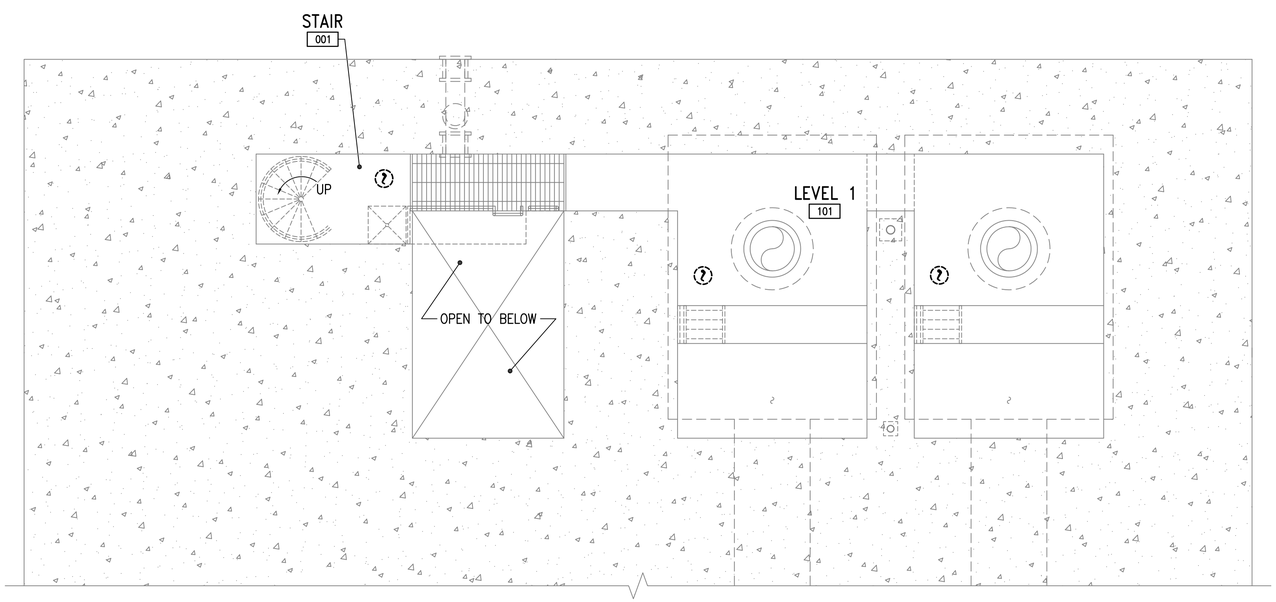



LEVEL 2 FIRE ALARM REMOVALS PLAN (ELEV -19.78'±)

SCALE: 1/4"=1'-0" FD102 C2




LEVEL 1 FIRE ALARM REMOVALS PLAN (ELEV -36.78'±)

SCALE: 1/4"=1'-0" FD102 A2

## REMOVALS GENERAL NOTE

1. SEE SHEET FD101 FOR REMOVALS GENERAL NOTES AND REMOVALS FIRE ALARM SYMBOLS.

KEY PLAN

NOT TO SCALE

PLAN NORTH

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PFD | | | | | | | APPR |
| JAN 07, 2015 | | | | | | | DATE |
| FINAL SUBMISSION | | | | | | | DESCRIPTION |
| | | | | | | | SYM |

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STATE OF MAINE LAURA E. CLEBAK No. 10417 LICENSED PROFESSIONAL ENGINEER 1/7/15

OAK POINT ASSOCIATES

A/E INFO

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SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES LEC DRW SAS CHK PFD

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

LEVEL 1 AND LEVEL 2 FIRE ALARM REMOVALS PLANS

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686319

SHEET 51 OF 66

FD102 DD3-14-710

DRAWFORM REVISION: 10 MARCH 2009

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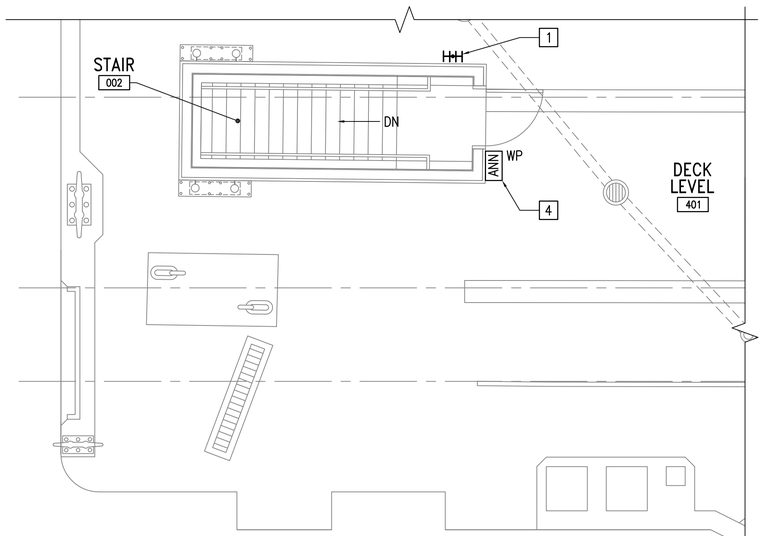
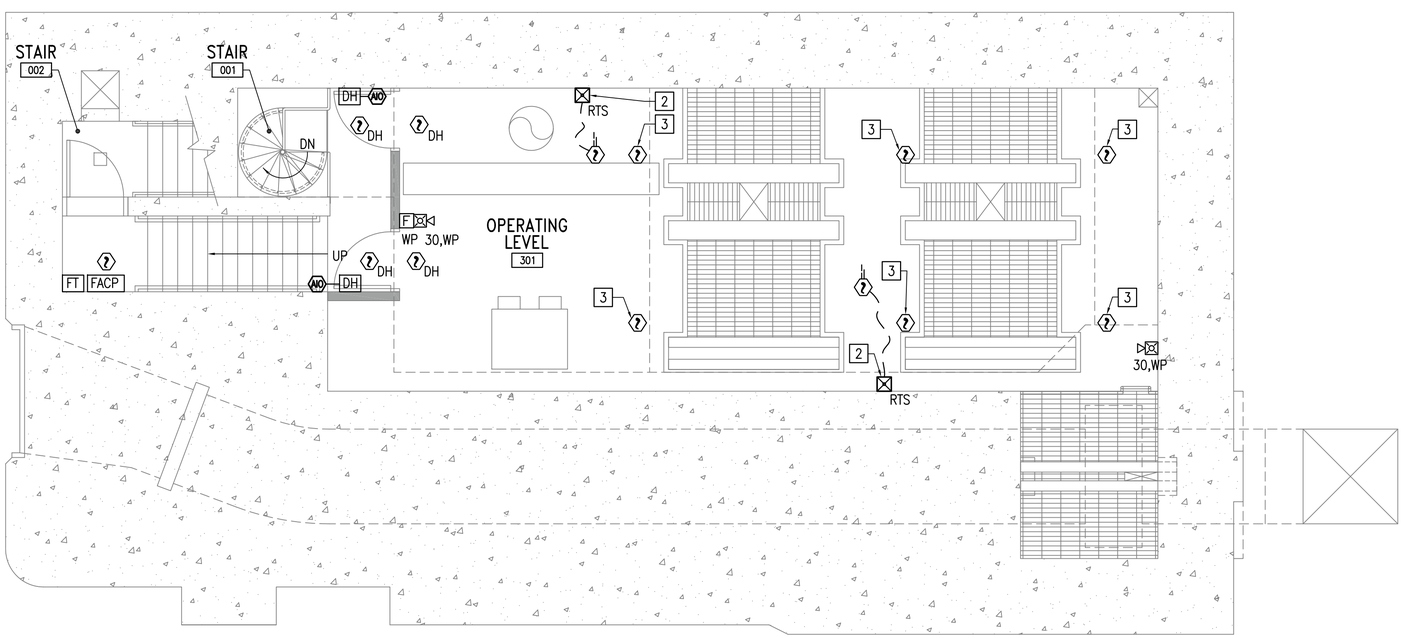



## DECK LEVEL FIRE ALARM PLAN (ELEV 9.72'±)

SCALE: 1/4"=1'-0" FA101 C2




## OPERATING LEVEL FIRE ALARM PLAN (ELEV -7.28'±)

SCALE: 1/4"=1'-0" FA101 A2

## GENERAL FIRE ALARM NOTES

1. FIRE ALARM INSTALLATION SHALL COMPLY WITH THE PRESCRIPTIVE REQUIREMENTS OF THE DEPARTMENT OF DEFENSE CURRENTLY ADOPTED EDITIONS OF NFPA, INCLUDING NFPA 70, 72, 90A, AND 101 AND THE UFC'S, INCLUDING UFC 3-600-01 AND UFC 3-600-10N.
2. REFER TO FD SHEETS FOR FIRE ALARM REMOVALS.
3. REFER TO SHEET FA104 FOR CONSOLIDATED FIRE ALARM RISER DIAGRAM AND INPUT/OUTPUT MATRIX.
4. COORDINATE WORK WITH THE ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES.
5. EQUIPMENT AND WIRING SHALL BE NEW AND UL LISTED UNLESS OTHERWISE NOTED.
6. PANELS, DEVICES, APPLIANCES, AND CONDUIT SHALL BE WATERTIGHT/ WEATHERPROOF WITH THE EXCEPTION OF ITEMS WHERE LISTING IS UNAVAILABLE FOR THESE MODIFICATIONS.
7. VERIFY EXISTING CONDITIONS AND DIMENSIONS AND REPORT DISCREPANCIES TO THE CONTRACTING OFFICER. PROCEED WITH THE WORK ONLY AFTER THE DISCREPANCIES HAVE BEEN RESOLVED BY THE CONTRACTING OFFICER.
8. PROVIDE WIRING AND CONDUIT INTERCONNECTING DEVICES AND APPLIANCES TO THE FACP. WIRING SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND AS RECOMMENDED BY EQUIPMENT MANUFACTURERS. WIRING SHALL BE RUN IN PVC COATED RIGID GALVANIZED STEEL CONDUIT (SIZED PER NFPA 70, 3/4" MINIMUM). CONDUIT AND EQUIPMENT SHALL BE PAINTED AND/OR MARKED IN ACCORDANCE WITH NFPA 72. FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED. CONDUIT SHALL BE RED.
9. PROVIDE MODULES, BATTERIES, ETCETERA FOR A COMPLETE OPERATIONAL SYSTEM.
10. REFER TO LIGHTING PLANS SHEET E-101 AND E-102 AND MECHANICAL PLANS M-101 AND M-102 FOR CEILING FEATURES, AND COORDINATE WORK IN, OR ON CEILINGS TO PREVENT INTERFERENCES.
11. REFER TO ARCHITECTURAL SHEET AE503 FOR DETAILS OF PENETRATIONS THROUGH RATED CONSTRUCTION. COORDINATE WITH FIRESTOPPING INSTALLER.
12. DO NOT DRILL OR CUT STRUCTURAL MEMBERS FOR THE INSTALLATION OF CONDUIT.
13. DEVICE LOCATIONS AND QUANTITIES ARE SHOWN FOR REFERENCE ONLY. DEVICES IN ADDITION TO THOSE SHOWN SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE GOVERNMENT TO MEET REQUIREMENTS OF THE UFC'S AND NFPA CODES.

## FIRE ALARM KEYNOTES

1. PROVIDE FIRE ALARM TRANSMITTER ANTENNA, WIRING, GROUNDING, LIGHTNING ARRESTOR, AND MOUNTING PER MANUFACTURER REQUIREMENTS.
2. COORDINATE LOCATION WITH CONTRACTING OFFICER.
3. SMOKE DETECTOR SHALL BE LISTED FOR MINIMUM 2,000 FT/MIN VELOCITY AND LOCATED OUTSIDE OF DIRECT MECHANICAL EQUIPMENT AIR STREAMS AND TO LIMIT DETECTOR SPACING BELOW 250 SF EACH.
4. PROVIDE ANNUNCIATOR IN WEATHERPROOF ENCLOSURE WITH INTERNAL HEATER.

## FIRE ALARM SYMBOLS

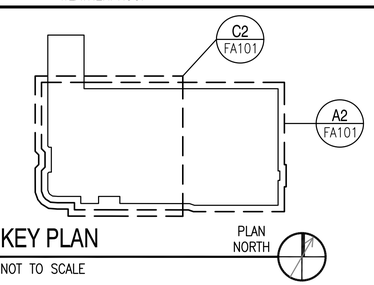
| | |
|---|---|
| FACP | FIRE ALARM CONTROL PANEL |
| FT | FIRE ALARM TRANSMITTER |
| ANN | ANNUNCIATOR PANEL "WP"= WEATHERPROOF |
| DH | MAGNETIC DOOR HOLDER |
| AIO | ADDRESSABLE INPUT/OUTPUT MODULE |
| ? | DUCT SMOKE DETECTOR WITH INTEGRATED RELAY |
| ? | SMOKE DETECTOR DH=DOOR HOLDER RELEASE |
| 15 | HORN WITH STROBE C=CEILING MOUNTED "15" = CANDELA RATING "WP"= WEATHERPROOF |
| F | MANUAL PULL STATION "WP"= WEATHERPROOF |
| RTS | REMOTE INDICATOR AND TEST SWITCH |
| | ANTENNA |

## FIRE ALARM LINE TYPE LEGEND

| | |
|---|---|
| ---------- | REMOVE ITEMS |
| ———— | PROVIDE ITEMS |
| — — — — | WIRING FROM DUCT SMOKE DETECTOR TO REMOTE INDICATOR |

## ABBREVIATIONS

| | |
|---|---|
| FT | FEET |
| MIN | MINUTE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| SF | SQUARE FEET |
| UFC | UNIFIED FACILITIES CRITERIA |
| UL | UNDERWRITERS LABORATORIES |
| WP | WEATHERPROOF |




KEY PLAN

NOT TO SCALE

## GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| FINAL SUBMISSION | | JAN 07, 2015 | PFD |

NAVFAC

STATE OF MAINE LAURA E. CLEBAK No. 10417 LICENSED PROFESSIONAL ENGINEER 1/7/15

OAK POINT ASSOCIATES

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES LEC DRW SAS CHK PFD

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

DECK LEVEL AND OPERATING LEVEL FIRE ALARM PLANS

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686320

SHEET 52 OF 66

FA101 DD3-14-711

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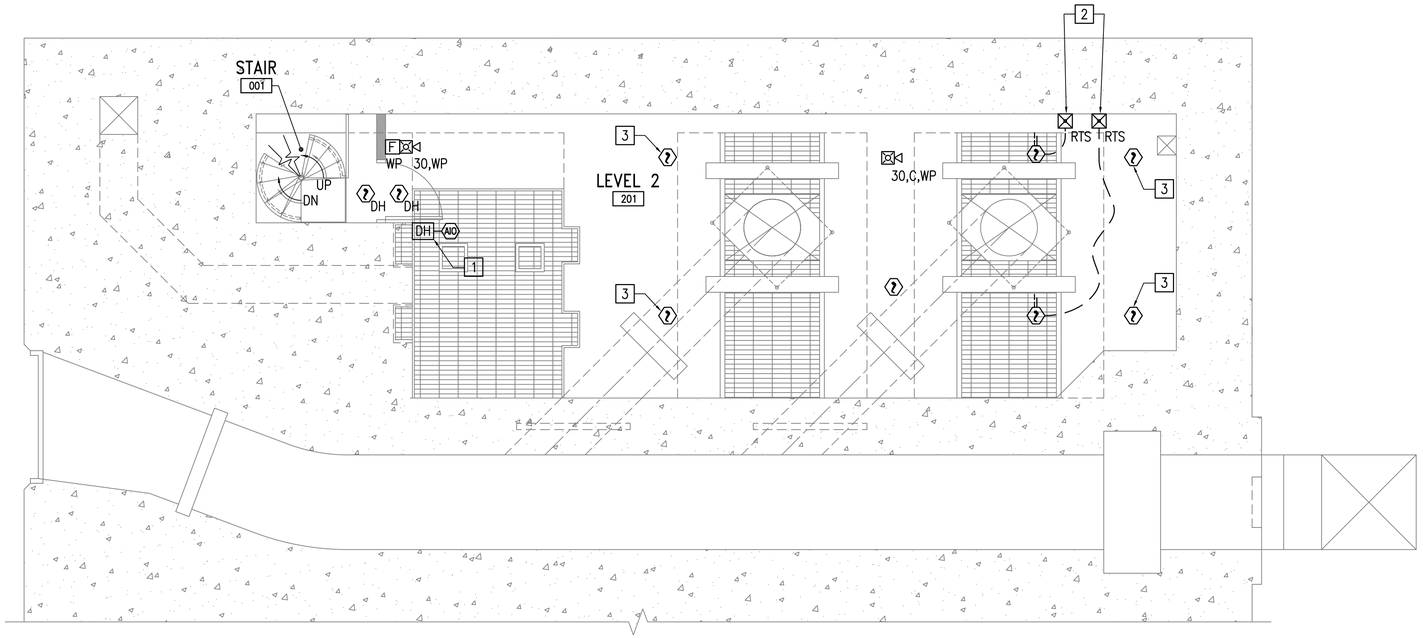
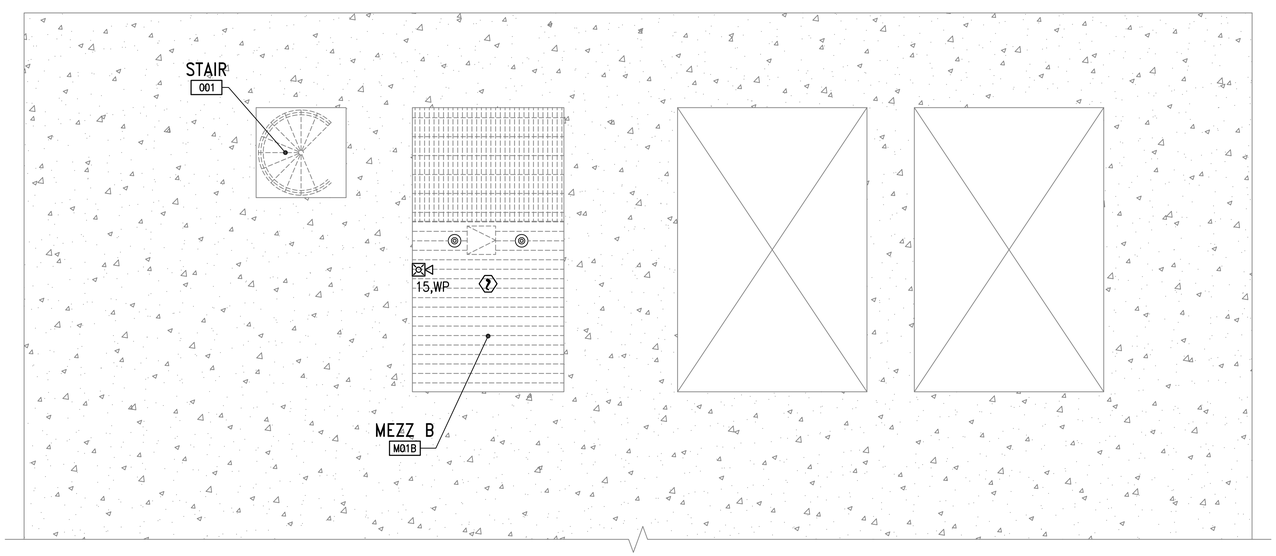



## LEVEL 2 FIRE ALARM PLAN (ELEV -19.78'±)

SCALE: 1/4"=1'-0" FA102 C2




## MEZZANINE LEVEL B
## FIRE ALARM PLAN (ELEV -25.53'±)

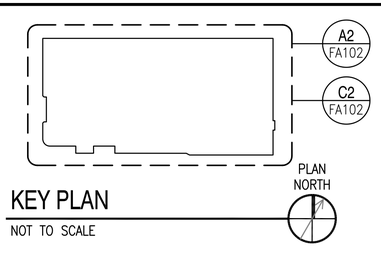
SCALE: 1/4"=1'-0" FA102 A2

## GENERAL FIRE ALARM NOTE

1. SEE SHEET FA101 FOR FIRE ALARM SYMBOLS, NOTES AND ABBREVIATIONS.

## FIRE ALARM KEYNOTES

1. PROVIDE EXTENSION ROD FOR DOOR HOLDER INSTALLATION. PROVIDE BRACKET FOR DH MOUNTING.
2. COORDINATE LOCATION WITH CONTRACTING OFFICER.
3. SMOKE DETECTOR SHALL BE LISTED FOR MINIMUM 2,000 FT/MIN VELOCITY AND LOCATED OUTSIDE OF DIRECT MECHANICAL EQUIPMENT AIR STREAMS AND TO LIMIT DETECTOR SPACING BELOW 250 SF EACH.




KEY PLAN
NOT TO SCALE

## GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

| SYM | DESCRIPTION | DATE | APPR |
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| FINAL SUBMISSION | | JAN 07, 2015 | PFD |

NAVFAC

STATE OF MAINE LAURA E. CLEBAK No. 10417 LICENSED PROFESSIONAL ENGINEER 1/7/15

OAK POINT ASSOCIATES
ARCHITECTURE • ENGINEERING

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15
DES LEC DRW SAS CHK PFD
PM/DM R C PANTEL
BRANCH MANAGER AMIN BAHROUR
CHIEF ENG/ARCH LCDR J ROCHE
FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

# DRY DOCK #3 PUMP WELL REPAIRS

MEZZANINE LEVEL B AND LEVEL 2 FIRE ALARM PLANS

MAXIMO No:
EPROJECT NO.: 1332591
CONSTR. CONTR. NO. N40085-15-C-6109
NAVFAC DRAWING NO. 12686321
SHEET 53 OF 66
FA102 DD3-14-712

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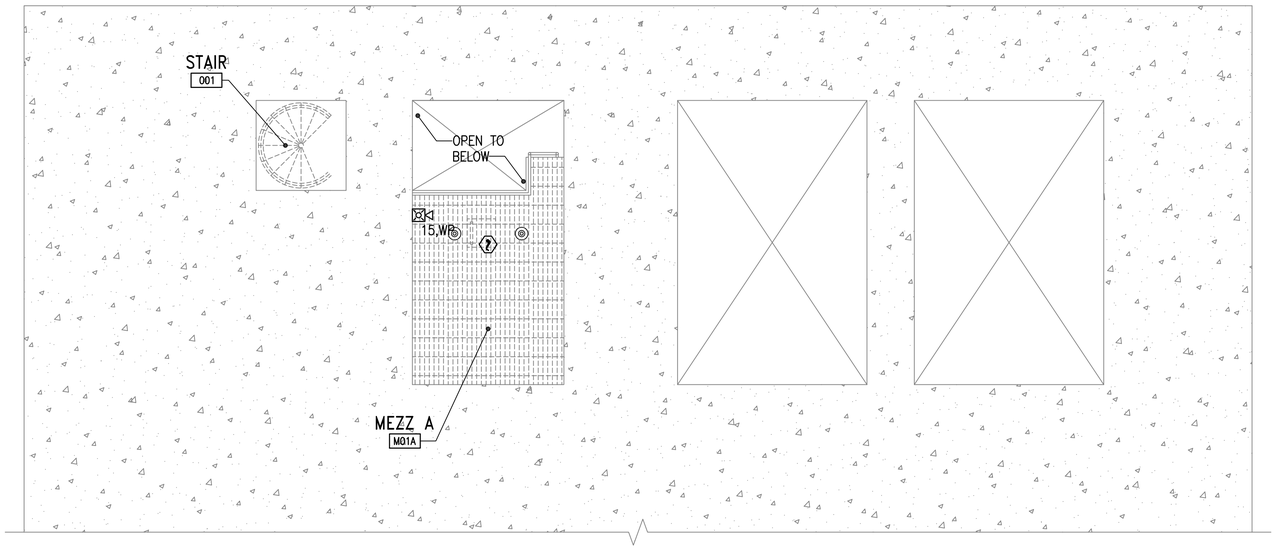
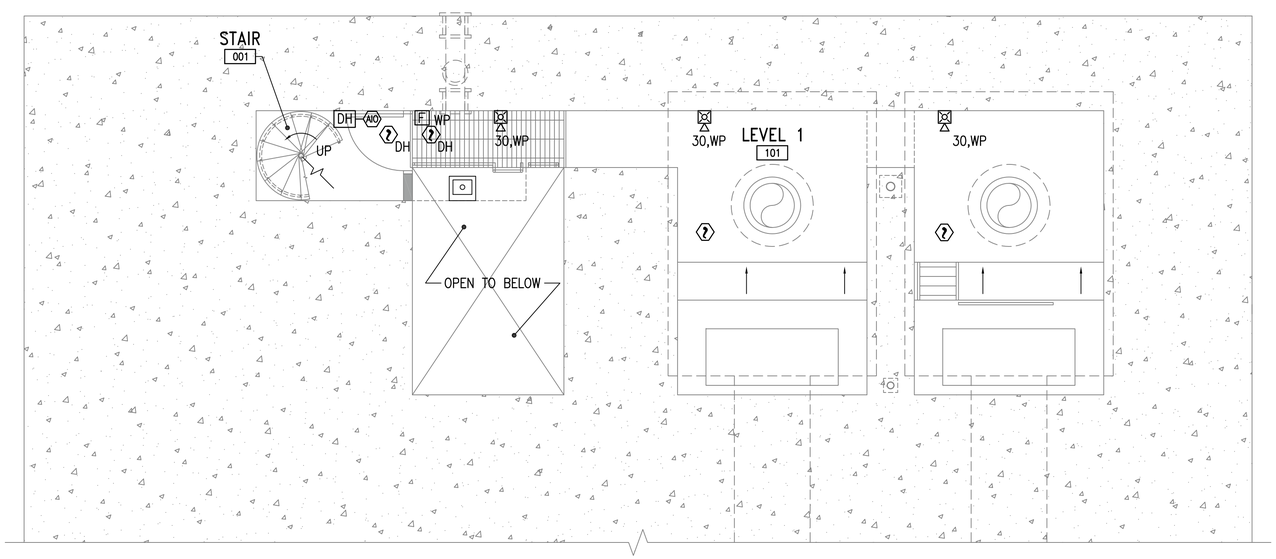



MEZZANINE LEVEL A
FIRE ALARM PLAN (ELEV -32.20'±)

SCALE: 1/4"=1'-0" FA103 C2

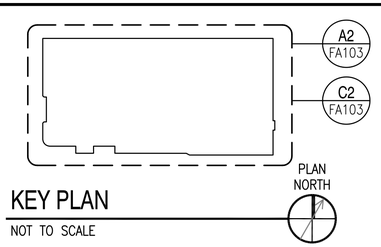



LEVEL 1 FIRE ALARM PLAN (ELEV -36.78'±)

SCALE: 1/4"=1'-0" FA103 A2

## GENERAL FIRE ALARM NOTE

1. SEE SHEET FA101 FOR FIRE ALARM SYMBOLS, NOTES AND ABBREVIATIONS.




KEY PLAN
NOT TO SCALE

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| FINAL SUBMISSION | | JAN 07, 2015 | PFD |

NAVFAC

STATE OF MAINE LAURA E. CLEBAK No. 10417 LICENSED PROFESSIONAL ENGINEER 1/7/15

OAK POINT ASSOCIATES
ARCHITECTURE • ENGINEERING • CONSULTING
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15
DES LEC DRW SAS CHK PFD
PM/DM R C PANTEL
BRANCH MANAGER AMIN BAHROUR
CHIEF ENG/ARCH LCDR J ROCHE
FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PWD-MAINE
NAVAL SHIPYARD PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME
KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

MEZZANINE LEVEL A AND LEVEL 1 FIRE ALARM PLANS

MAXIMO No:
EPROJECT NO.: 13332591
CONSTR. CONTR. NO. N40085-15-C-6109
NAVFAC DRAWING NO. 12686322
SHEET 54 OF 66
FA103 DD3-14-713

DRAWFORM REVISION: 10 MARCH 2009

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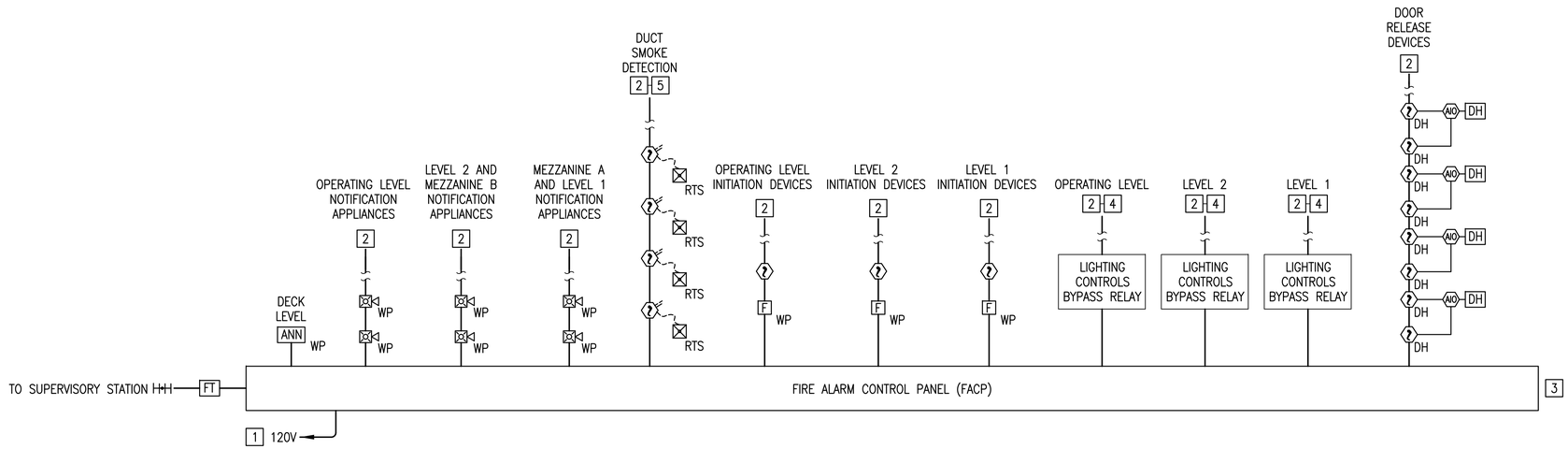


## CONSOLIDATED FIRE ALARM RISER DIAGRAM

NOT TO SCALE FA101,FA104 C3

## SYSTEM OUTPUTS

## SYSTEM INPUTS

| | | A | B | C | D | E | F | G | H | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | TRANSMIT ALARM SIGNAL TO SUPERVISING STATION | TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION | ACTUATE ALARM SIGNAL AUDIO & VISUAL INDICATOR ON FACP | ACTUATE TROUBLE SIGNAL AUDIO & VISUAL INDICATOR ON FACP | ACTUATE HORNS AND STROBES | SHUT DOWN ASSOCIATED MECHANICAL EQUIPMENT | RELEASE MAGNETIC DOOR HOLDERS | BYPASS OCCUPANCY LIGHTING CONTROLS | |
| 1 | MANUAL PULL STATIONS | ● | | ● | | ● | | ● | ● | 1 |
| 2 | AREA SMOKE DETECTORS | ● | | ● | | ● | | ● | ● | 2 |
| 3 | DOOR RELEASE SMOKE DETECTORS | ● | | ● | | ● | | ● | ● | 3 |
| 4 | DUCT SMOKE DETECTION | ● | | ● | | ● | ● | ● | ● | 4 |
| 5 | FIRE ALARM AC POWER FAILURE | | ● | | ● | | | | | 5 |
| 6 | FIRE ALARM SYSTEM LOW BATTERY | | ● | | ● | | | | | 6 |
| 7 | FIRE ALARM OPEN CIRCUIT | | ● | | ● | | | | | 7 |
| 8 | FIRE ALARM GROUND FAULT | | ● | | ● | | | | | 8 |
| 9 | NOTIFICATION APPLIANCE CIRCUIT SHORT | | ● | | ● | | | | | 9 |
| | | A | B | C | D | E | F | G | H | |

## INPUT/OUTPUT MATRIX

NOT TO SCALE FA101,FA104 A3

## GENERAL FIRE ALARM NOTE

1. SEE SHEET FA101 FOR FIRE ALARM SYMBOLS, NOTES AND ABBREVIATIONS.

## FIRE ALARM KEYNOTES

1. POWER TO THE FACP IS PROVIDED BY MOTOR CONTROL CENTER (MCC1) PANEL BOARD, CIRCUIT 1. THE BREAKER SERVING THE FIRE ALARM EQUIPMENT SHALL BE RED AND A LISTED LOCK-ON BREAKER. MARK BREAKER "FIRE ALARM DISCONNECT".
2. PROVIDE NUMBER OF CIRCUITS AND BATTERY CAPACITY REQUIRED FOR THE LOAD.
3. PROVIDE QUANTITY OF DEVICES AND CIRCUITS SHOWN ON SHOP DRAWINGS. FIRE ALARM RISER DIAGRAM IS SHOWN FOR REFERENCE ONLY. DEVICE LOCATIONS AND QUANTITIES SHALL BE AS SHOWN ON THE SHOP DRAWINGS. ADDITIONAL DEVICES BEYOND THOSE SHOWN SHALL BE PROVIDED AT NO ADDITIONAL COST TO MEET THE REQUIREMENTS OF THE UFC'S, NFPA 13 AND NFPA 72.
4. PROVIDE ADDRESSABLE INPUT/OUTPUT MODULES AND PROGRAMMING FOR CONTROL OF LIGHTING CONTROLS BYPASS RELAYS. REFER TO SHEETS E-101 AND E-102 FOR QUANTITIES AND LOCATIONS. COORDINATE WITH ELECTRICAL TRADE.
5. REFER TO SHEETS M-101 AND M-102 FOR LOCATIONS.

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| FINAL SUBMISSION | | JAN 07, 2015 | PFD |

NAVFAC

STATE OF MAINE LAURA E. CLEBAK No. 10417 LICENSED PROFESSIONAL ENGINEER 1/7/15

OAK POINT ASSOCIATES

A/E INFO

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DES LEC DRW SAS CHK PFD

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FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME

NAVAL SHIPYARD KITTERY, ME

# DRY DOCK #3 PUMP WELL REPAIRS

FIRE ALARM RISER DIAGRAM AND MATRIX

MAXIMO No.:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686323

SHEET 55 OF 66

FA104 DD3-14-714

DRAWFORM REVISION: 10 MARCH 2009

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