THESE DRAWINGS AND INSTRUCTIONS ARE INTENDE SUPPLEMENT TO THE INSTALLATION AND OPERATIO NOT A REPLACEMENT.

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/30/13

PLEASE READ THE SUPPLIED MANUAL COMPLETELY PRIOR TO INSTALLATION OF THIS UNIT.

R. B. Allen Co. Inc.
P.O. BOX 770
131 Lafayette Road
North Hampton, NH 03862
1-800-258-7264

AES
Radio Transceiver
Installation
Cover Sheet

SCALE: NTS

REV.	DESCRIPTION	DATE	DRWN	RVW'D
1	AES Cover Sheet	3/13	Jeff P.	

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DWG NAME:

AES
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Installation
Cover Sheet

SUBSCRIBER UNIT INSTALLATIO

Reviewed for Code Compliance
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Approved with Conditions

Date: 07/30/13

WARNING

DO NOT POWER UP RADIO WITHOUT ANTENNA CONNECTED
DAMAGE TO TRANSCEIVER WILL OCCUR

AES Radio Transceiver SUBSCRIBER UNIT

SCALE: NTS

REV.	DESCRIPTION	DATE	DRWN	RVW'D
1	AES Subscriber Unit	3/13	Jeff P.	

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DWG NAME:

AES
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SUBSCRIBER UNIT

ANTENNA INSTALLATION

Reviewed for Code Compliance
Inspections Division
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Date: 07/30/13

AES
Radio Transceiver
Dual/WideBand
Antenna Installation

SCALE: NTS

REV.	DESCRIPTION	DATE	DRWN	RVW'D
1	AES Dual/Wide-Band Antenna Installation	3/13	Jeff P.	

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AES
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Dual/Wide-Band
Antenna Installation

DUAL/WIDE-BAND ANTENNA

DETAIL "A"

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Date: 07/30/13

AES
Radio Transceiver
Dual/WideBand
Antenna Installation
DETAIL "A"

SCALE: NTS

REV.	DESCRIPTION	DATE	DRWN	RVW'D
1	AES Dual/Wide-Band Antenna Installation Detail A	3/13	Jeff P.	

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DWG NAME:

AES
Radio Transceiver
Dual/Wide-Band
Antenna Installation
DETAIL "A"

ANTENNA INSTALLATION

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/30/13

AES
Radio Transceiver
High Gain Fiberglass
Antenna Installation

SCALE: NTS

REV.	DESCRIPTION	DATE	DRWN	RVW'D
1	AES High Gain Fiberglass Antenna Installation	3/13	Jeff P.	

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DWG NAME:

AES
Radio Transceiver
High Gain Fiberglass
Antenna Installation

HIGH GAIN FIBERGLASS ANTENNA

DETAIL "B'

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Inspections Division
Approved with Conditions

Date: 07/30/13

AES
Radio Transceiver
High Gain Fiberglass
Antenna Installation
DETAIL "B"

SCALE: NTS

REV.	DESCRIPTION	DATE	DRWN	RVW'D
1	AES High Gain Fiberglass Antenna Installation Detail B	3/13	Jeff P.	

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DWG NAME:

AES
Radio Transceiver
High Gain Fiberglass
Antenna Installation
DETAIL "B"

N - CONNECTOR INSTALLATION

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/30/13

NOTE: FOR BEST RESULTS USE PALADIN COAX STRIPPERS
MODEL PA1256 FOR RG-8
MODEL PA1255 FOR RG-58

To install the N connector(s), use the following procedures:

Strip Dimensions, inches (mm):
a: 0.539 (13.7)
b: 0.250 (6.4)
c: 0.158 (4.0)

Step 1: Strip cable jacket, braid, and dielectric to dimensions shown. All cuts are to be sharp and square. **Important:** Do not nick braid, dielectric, and center conductor. Tinning of center conductor is not necessary if contact is to be crimped. For solder method, tin center conductor avoiding excessive heat.

Step 1

Step 2: Slide outer ferrule onto cable as shown. Flare slightly end of cable braid as shown to facilitate insertion of inner ferrule. **Important:** Do not comb out braid. Place contact on cable center conductor so it butts against cable dielectric. Center conductor should be visible through inspection hole in contact. Crimp or solder contact in place as follows:

Step 2

Step 3

Solder Method: Soft solder contact to cable center conductor. Do not get any solder on outside surface of contact. Avoid excessive heat to prevent swelling of dielectric.

Crimp Method: Use Die Set Cavity Specified below.

Step 1: Use die set with .100 cavity for center pin.

Step 2: Use die set with .415 cavity for outer ferrule.

Use die set with .256, .215 and .068 cavities (not shown) for RG-58 Cable and Connectors.

Step 3: Install cable assembly into body assembly so inner ferrule portion slides under braid, Push cable assembly forward until contact snaps into place in insulator. Slide outer ferrule over braid and up against connector body. Crimp outer ferrule using Die Set Cavity specified above.

AES
Radio Transceiver
N-Connector
Installation

SCALE: NTS

REV.	DESCRIPTION	DATE	DRWN	RVW'D
1	AES N-Connector Installation	3/13	Jeff P.	

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DWG NAME:
AES
Radio Transceiver
N-Connector
Installation

SURGE ARRESTOR ENCLOSURE INSTALLAT

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/30/13

AES
Radio Transceiver
Surge Arrestor
Installation

SCALE: NTS

REV.	DESCRIPTION	DATE	DRWN	RVW'D
1	AES N-Connector Installation	3/13	Jeff P.	

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DWG NAME:

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Surge Arrestor Enclosure
Installation