

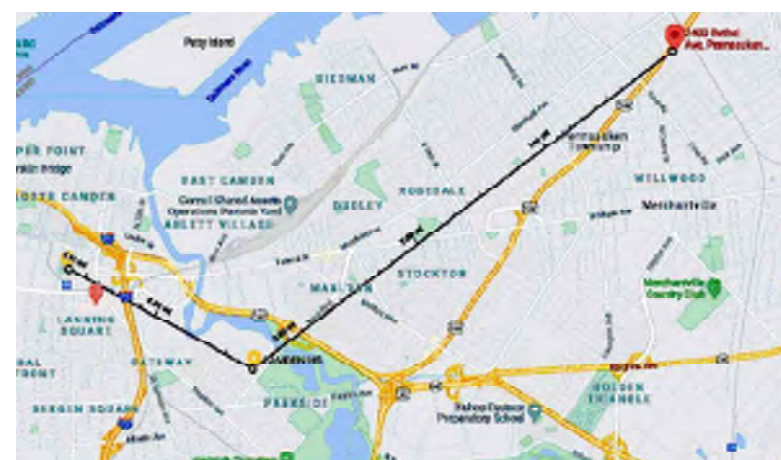
HIGH SCHOOL EMERGENCY RESPONDER RADIO COVERAGE SYSTEM

1700 PARK BOULEVARD
CAMDEN, NEW JERSEY 08103

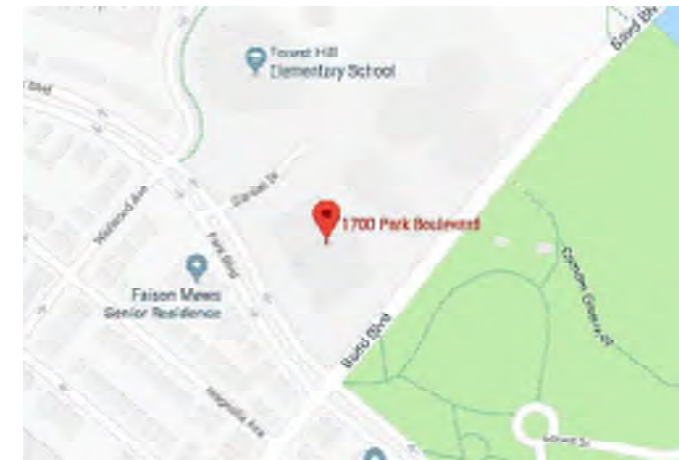
PROJECT RENDER



AREA MAP



LOCAL MAP



2018 - IFC SECTION 510:

SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE

510.1 Emergency responder radio coverage in new buildings.
All new buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.

Exceptions:

- Where approved by the building official and the fire code official, a wired communication system in accordance with Section 907.2.13.2 shall be permitted to be installed or maintained in lieu of an approved radio coverage system.
- Where it is determined by the fire code official that the radio coverage system is not needed.
- In facilities where emergency responder radio coverage is required and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency responder radio coverage system.

510.2 Emergency responder radio coverage in existing buildings.
Existing buildings shall be provided with approved radio coverage for emergency responders as required in Chapter 11.

510.3 Permit required.
A construction permit for the installation of or modification to emergency responder radio coverage systems and related equipment is required as specified in Section 105.7.5. Maintenance performed in accordance with this code is not considered a modification and does not require a permit.

510.4 Technical requirements.
Systems, components, and equipment required to provide emergency responder radio coverage system shall comply with Sections 511.4.1 through 511.4.2.5.

510.4.1 Radio signal strength.
The building shall be considered to have acceptable emergency responder radio coverage when signal strength measurements in 95 percent of all areas on each floor of the building meet the signal strength requirements in Sections 510.4.1.1 and 510.4.1.2.

510.4.1.1 Minimum signal strength into the building.
A minimum signal strength of -65 dBm shall be received within the building.

510.4.1.2 Minimum signal strength out of the building.
A minimum signal strength of -65 dBm shall be received by the agency's radio system when transmitted from within the building.

510.4.2 System design.
The emergency responder radio coverage system shall be designed in accordance with Sections 510.4.2.1 through 510.4.2.5.

510.4.2.1 Amplification systems allowed.
Buildings and structures which cannot support the required level of radio coverage shall be equipped with a radiating cable system, a distributed antenna system with Federal Communications Commission (FCC)-certified signal boosters, or other system approved by the fire code official in order to achieve the required adequate radio coverage.

510.4.2.2 Technical criteria.
The fire code official shall maintain a document providing the specific technical information and requirements for the emergency responder radio coverage system. This document shall contain, but not be limited to, the various frequencies required, the location of radio sites, effective radiated power of radio sites, and other supporting technical information.

510.4.2.3 Secondary power.
Emergency responder radio coverage systems shall be provided with an approved secondary source of power. The secondary power supply shall be capable of operating the emergency responder radio coverage system for a period of at least 24 hours. When primary power is lost, the power supply to the emergency responder radio coverage system shall automatically transfer to the secondary power supply.

510.4.2.4 Signal booster requirements.
If used, signal boosters shall meet the following requirements:

- All signal booster components shall be contained in a National Electrical Manufacturer's Association (NEMA) 4-type waterproof cabinet.
- Battery systems used for the emergency power source shall be contained in a NEMA 4-type waterproof cabinet.
- The signal booster system and battery system shall be electrically supervised and monitored by a supervisory service, or when approved by the fire code official, shall sound an audible signal at a constantly attended location.
- Equipment shall have FCC certification prior to installation.

510.4.2.5 Additional frequencies and change of frequencies.
The emergency responder radio coverage system shall be capable of modification or expansion in the event frequency changes are required by the FCC or additional frequencies are made available by the FCC.

510.5 Installation requirements.
The installation of the public safety radio coverage system shall be in accordance with Sections 510.5.1 through 510.5.5.

510.5.1 Approval prior to installation.
Amplification systems capable of operating on frequencies licensed to any public safety agency by the FCC shall not be installed without prior coordination and approval of the fire code official.

510.5.2 Minimum qualifications of personnel.
The minimum qualifications of the system designer and lead installation personnel shall include:

- A valid FCC-issued general radio operators license, and
 - Certification of in-building system training issued by a nationally recognized organization, school or a certificate issued by the manufacturer of the equipment being installed.
- These qualifications shall not be required where demonstration of adequate skills and experience satisfactory to the fire code official is provided.

510.5.3 Acceptance test procedures.
When an emergency responder radio coverage system is required, and upon completion of installation, the building owner shall have the radio system tested to ensure that two-way coverage on each floor of the building is a minimum of 90 percent. The test procedure shall be conducted as follows:

- Each floor of the building shall be divided into a grid of 20 approximately equal test areas.
- The test shall be conducted using a calibrated portable radio of the latest brand and model used by the agency talking through the agency's radio communications system.
- Failure of a maximum of two nonadjacent test areas shall not result in failure of the test.
- In the event that three of the test areas fail the test, in order to be more statistically accurate, the floor shall be permitted to be divided into 40 equal test areas. Failure of a maximum of four

SHEET INDEX

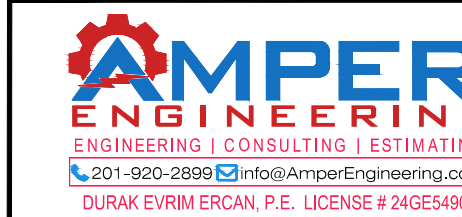
| | |
|----------|----------------------------------|
| DAS 1.10 | INFORMATION SHEET 1 (THIS SHEET) |
| DAS 1.20 | INFORMATION SHEET 2 |
| DAS 1.40 | RISER DIAGRAM |
| DAS 2.01 | LEVEL 1 |
| DAS 2.02 | LEVEL 2 |
| DAS 2.03 | ROOF |
| DAS 3.18 | HEADEND LAYOUT |
| DAS 3.30 | INDOOR ANTENNA EXAMPLES |
| DAS 3.40 | DONOR ANTENNA EXAMPLES |
| DAS 4.00 | FIRE ALARM INTERCONNECT |
| DAS-5.01 | HEAT MAP, LEVEL 1 |
| DAS 5.02 | HEAT MAP, LEVEL 2 |

GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NEW JERSEY FIRE CODE 2018, IFC 2018 SEC. 510, 2016 NFPA 72.
- ANY INFRASTRUCTURE REQUIRED FOR CONNECTING ERRCS COMPONENTS TO THE FIRE ALARM SYSTEM, TO INCLUDE BUT NOT LIMITED TO LOCAL JUNCTION BOXES AND SUPERVISORY PANELS, TO BE PROVIDED BY OTHERS.
- SYSTEM SHALL BE POWERED BY DUAL SOURCES.
 - PRIMARY POWER SHALL BE FROM A DEDICATED 120V/20A CIRCUIT.
 - SECONDARY POWER SHALL BE FROM UPS WITH 24 HOUR RUNTIME MOUNTED IN NEMA 4 ENCLOSURE.
- BIDIRECTIONAL AMPLIFIER (BDA) AND ASSOCIATED EQUIPMENT SHALL BE WALL OR FLOOR MOUNTED IN A NEMA 4 EQUIVALENT ENCLOSURE.
- ALL EQUIPMENT OTHER THAN THE BIDIRECTIONAL AMPLIFIER (BDA) IS PASSIVE.
- SYSTEM HEADEND EQUIPMENT AND UPS TO BE CONNECTED TO A DEDICATED FIRE ALARM ANNUNCIATOR PANEL. COORDINATE LOCATION WITH ARCHITECT AND AHJ. SYSTEM TO MONITOR:
 - SIGNAL BOOSTER (BDA / RF EMITTER)
 - ANTENNA TROUBLE / FAILURE
 - AC MAINS POWER FAILURE
 - UPS SYSTEM FAILURE
 - LOW BATTERY
- MINIMUM BEND RADIUS ON ALL COAX IS 12".
- ALL PASSIVE DEVICES (SPLITTERS, ETC.) IN CEILING OR WALL MOUNTED 12X12X4 JUNCTION BOXES.
- ALL ANTENNAS MOUNTED ON 12X12X4 JUNCTION BOXES.

www.AmperEngineering.com

SHOP DRAWING



HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

Revisions

| No. | Revision/Issue | Date |
|-----|----------------|------|
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Date: 08/01/2019

Dwn By: MM

Chk By:

Size: E1 - 30x42

Scale: None

Do Not Scale Drawing

HIGH SCHOOL
ERRCS PLAN

INFO 2




Dwg:

DAS-1.20

Rev:

DAS-IHS-042721.DWG
AE-1407

LEGENDS / EQUIPMENT LIST

| | | | | |
|---|----------------------------------|---------------|-------------|--|
|  | Antenna - Directional Omni | PC-Tel | MXRMFBW7463 | Omni Donor Antenna - 746-869 Mhz. |
|  | Antenna - Indoor Omnidirectional | DAS Connexion | OMNI | Omnidirectional In-Building Antenna System - 140-960: Mhz and 1710-2700 Mhz - KSR-195 Pigtail - N-Female |
|  | Directional Coupler / Tapper | DAS Connexion | DN-x1FN | Directional Coupler or Tapper, 140-960 Mhz, 3-Type N Female connectors, 500 watt max. power, indoor. Specify db coupling |
|  | Splitter | DAS Connexion | D2-67FN | Splitter, 140-960 Mhz, 3-Type N Female connectors, 500 watt max. power, indoor. Specify db coupling |
|  | B-Directional Amplifier | DAS Connexion | Elite 7837 | Multi-Band, Multi-Service, Software-Based Repeater Platform |
|  | UPS / Power Supply | DAS Connexion | BBU-48-24 | Uninterruptible Power Supply |
|  | Surge Arrestor | DAS Connexion | CSP1NB90 | Lightning and Surge Protector |
|  | Status Panel | DAS Connexion | ANN-000-04 | Status Monitoring Panel |
|  | Cable | DAS Connexion | LDF4RK-50A | HELIAAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in. black PE jacket |
|  | Cable | DAS Connexion | AL4RPV-50 | HELIAAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated aluminum, 1/2 in. off white PVC jacket |
|  | Cable | DAS Connexion | CNT-400 | CNT-400P, CNT® 50 Ohm Plenum Rated Braided Coaxial Cable, white PVC jacket |

EQUIPMENT LICENSING

FCC ID: U88PSELITE78A(B)
 Full Company Details: DAS Connexion, LLC
 Address:
 DAS Connexion
 22415 SE 231 Street
 Maple Valley, WA 98038
 United States
 Issued 06/16/18

UPS RUNTIME CALCULATION

| SYSTEM BATTERY STANDBY CALCULATION 48V DC | | | | |
|---|--------------|---|---------|------------|
| QTY | MODEL | DESCRIPTION | VOLTAGE | AMPS @ 48V |
| | NO. | | | |
| 1 | ELITE 7837 | DAS CONNEXION BI DIRECTIONAL AMPLIFIER | 170 | 3.54 |
| | | TOTAL CURRENT DURING AC POWER LOSS (INCLUDES ALL HEADEND EQUIPMENT) | | 3.54 |
| | | DESCRIPTION | | CURRENT |
| | | TOTAL CURRENT DURING AC POWER LOSS | | 3.54 |
| | | K 24 HOUR STANDBY | | 85.00 |
| | | TOTAL BATTERY REQUIREMENT | | 85.00 |
| 1 | PS-BBU-48-24 | BATTERY SUPPLY (1400-11000) | | 100.00 |
| | | EXCESS BATTERY PICKUP | | 15.00 |

CAMDEN COUNTY FREQUENCY LIST

12-SITE SIMULCAST SYSTEM (FIRE & EMS)

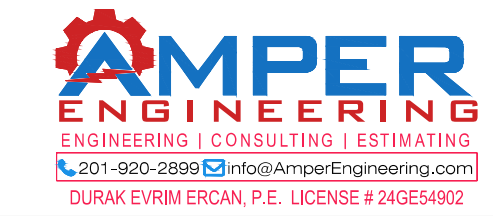
| SYSTEM CHANNEL | BASE TRANSMIT MHZ | BASE RECEIVE MHZ |
|----------------|-------------------|------------------|
| 1 | 774.19375 | 804.19375 |
| 2 | 773.46875 | 803.46875 |
| 3 | 772.11875 | 802.11875 |
| 4 | 770.86875 | 800.86875 |
| 5 | 769.81875 | 799.81875 |
| 6 | 854.18750 | 809.18750 |
| 7 | 773.94375 | 803.94375 |
| 8 | 772.89375 | 802.89375 |
| 9 | 771.21875 | 801.21875 |
| 10 | 770.26875 | 800.26875 |
| 11 | 854.36250 | 809.36250 |
| 12 | 854.13750 | 809.13750 |
| 13 | 859.03750 | 814.03750 |
| 14 | 858.68750 | 813.68750 |
| 15 | 857.66250 | 812.66250 |
| 16 | 857.13750 | 812.13750 |

METRO PD ASR (CAMDEN METRO POLICE)

| | BASE TRANSMIT MHZ | BASE RECEIVE MHZ |
|---|-------------------|------------------|
| 1 | 851.16250 | 806.16250 |
| 2 | 851.73750 | 806.73750 |
| 3 | 852.78750 | 807.78750 |
| 4 | 853.18750 | 808.18750 |
| 5 | 853.70000 | 808.70000 |

FREQUENCIES IN RED INDICATE UPPER & LOWER SYSTEM LIMITS

SHOP DRAWING



HIGH SCHOOL
 EMERGENCY RESPONDER
 RADIO COVERAGE SYSTEM

Revisions

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| No. | Revision/Issue | Date |
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Date: 08/01/2019
 Dwn By: MM
 Chk By:
 Size: E1 - 30x42
 Scale: None
 Do Not Scale Drawing

HIGH SCHOOL
 ERRCS PLAN

INFO 1

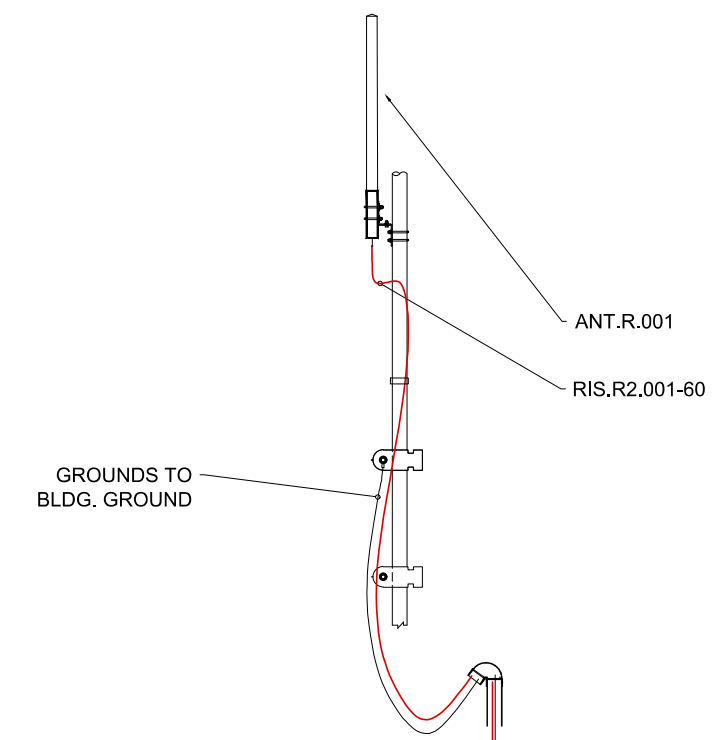
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| Dwg: | Rev: |
| DAS-1.10 | |

DAS-IHS-042721.DWG
 AE-1407

LEGEND

- ANTENNA - INDOOR
- ANTENNA - DONOR
- SURGE ARRESTOR
- DIRECTIONAL COUPLER
- SPLITTER
- BIDIRECTIONAL AMPLIFIER
- BUILDING GROUND
- COAX CABLE (SEE EQUIPMENT LIST)
- 2-HR FIRE RATED PATHWAY REQ'D

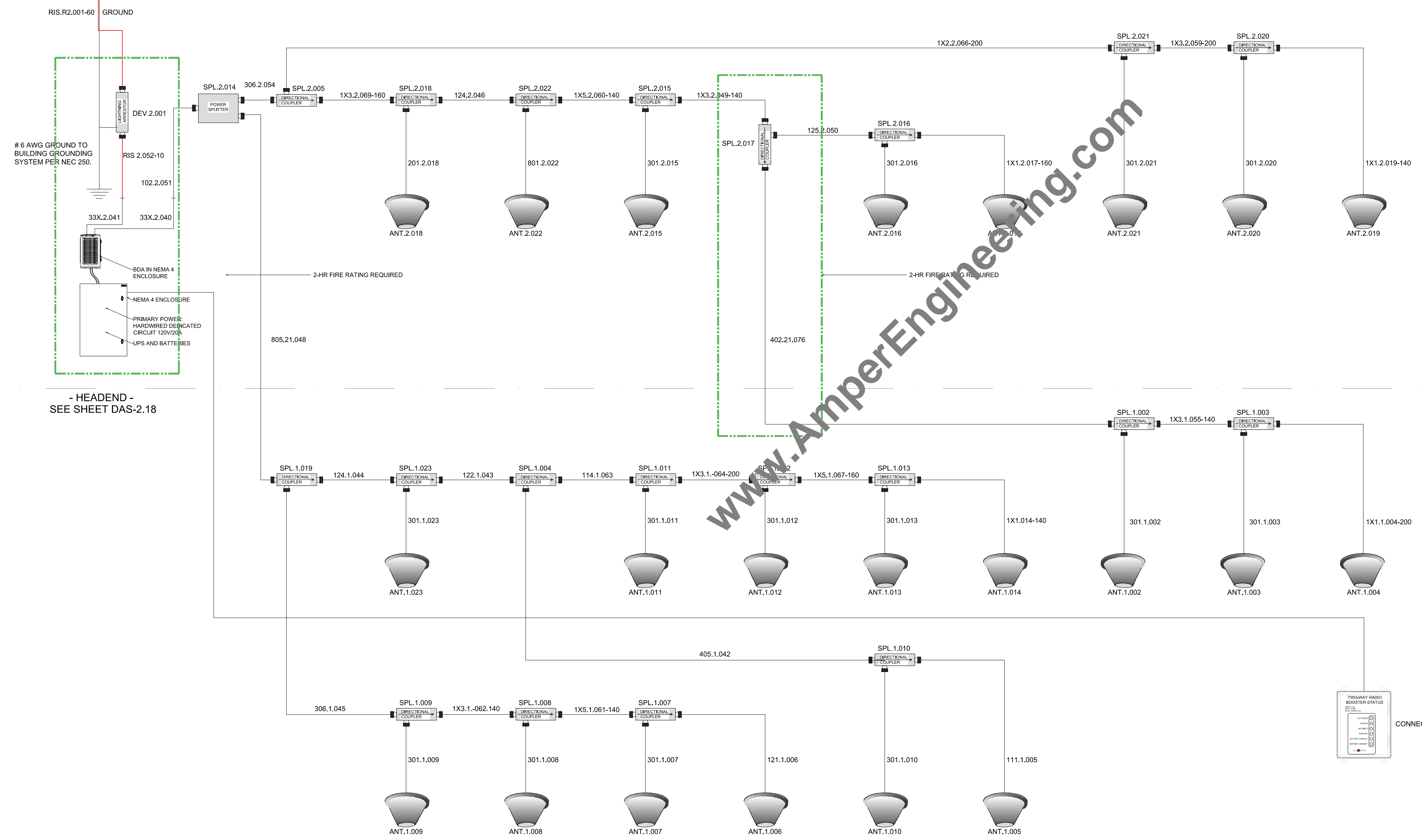
LEGENDS ARE GENERIC AND SOME MAY NOT BE USED ON THIS SHEET.



ROOF

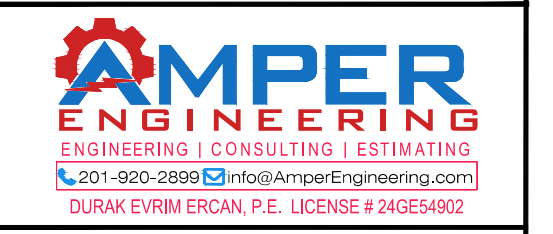
LEVEL 2

LEVEL 1



- HEADEND -
SEE SHEET DAS-2.18

SHOP DRAWING



HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

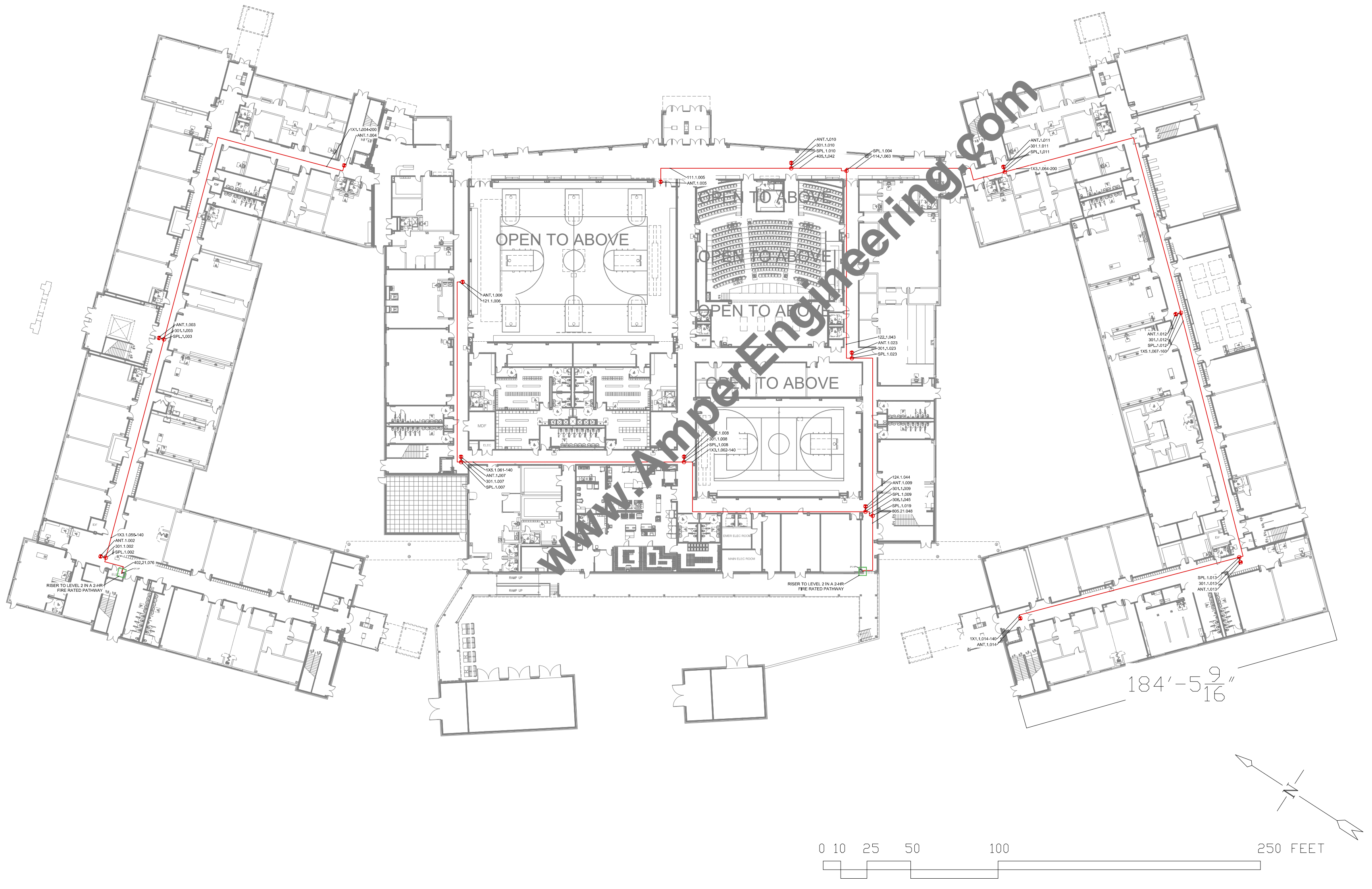
Revisions

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Date: 08/01/2019
Dwn By: MM
Chk By:
Size: E1 - 30x42
Scale: None
Do Not Scale Drawing

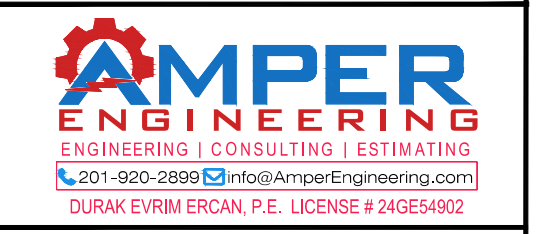
HIGH SCHOOL
ERRCS PLAN
RISER DIAGRAM
Dwg: DAS-1.40
Rev: AE-1407

| SHEET NOTES | LEGEND |
|---|-------------------------------|
| 1. MINIMUM BEND RADIUS ON ALL COAX IS 12" | ANTENNA |
| 2. ALL PASSIVE DEVICES (SPLITTERS, ETC.) SHALL BE IN CEILING OR WALL MOUNTED NEAR JUNCTION BOXES, OR ENCLOSURES IF NOT ABOVE CEILINGS, U.O.N. | ANTENNA, DIRECTIONAL |
| 3. ALL ANTENNAS SHALL BE MOUNTED ON JUNCTION BOXES. | ANTENNA - DONOR |
| 4. ALL PLACEMENTS ARE DIAGRAMMATIC, COORDINATE LOCATIONS WITH EXISTING AND OTHER TRADES. | SURGE ARRESTOR |
| | DIRECTIONAL COUPLER |
| | SPLITTER |
| | 2-HR FIRE RATED PATHWAY REQ'D |



1 First Floor Plan
SCALE: 1/32" = 1'-0"

SHOP DRAWING



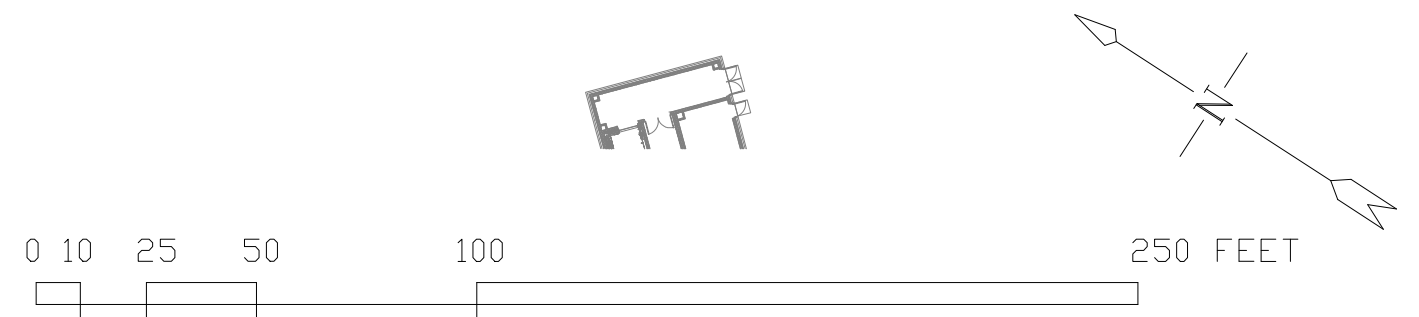
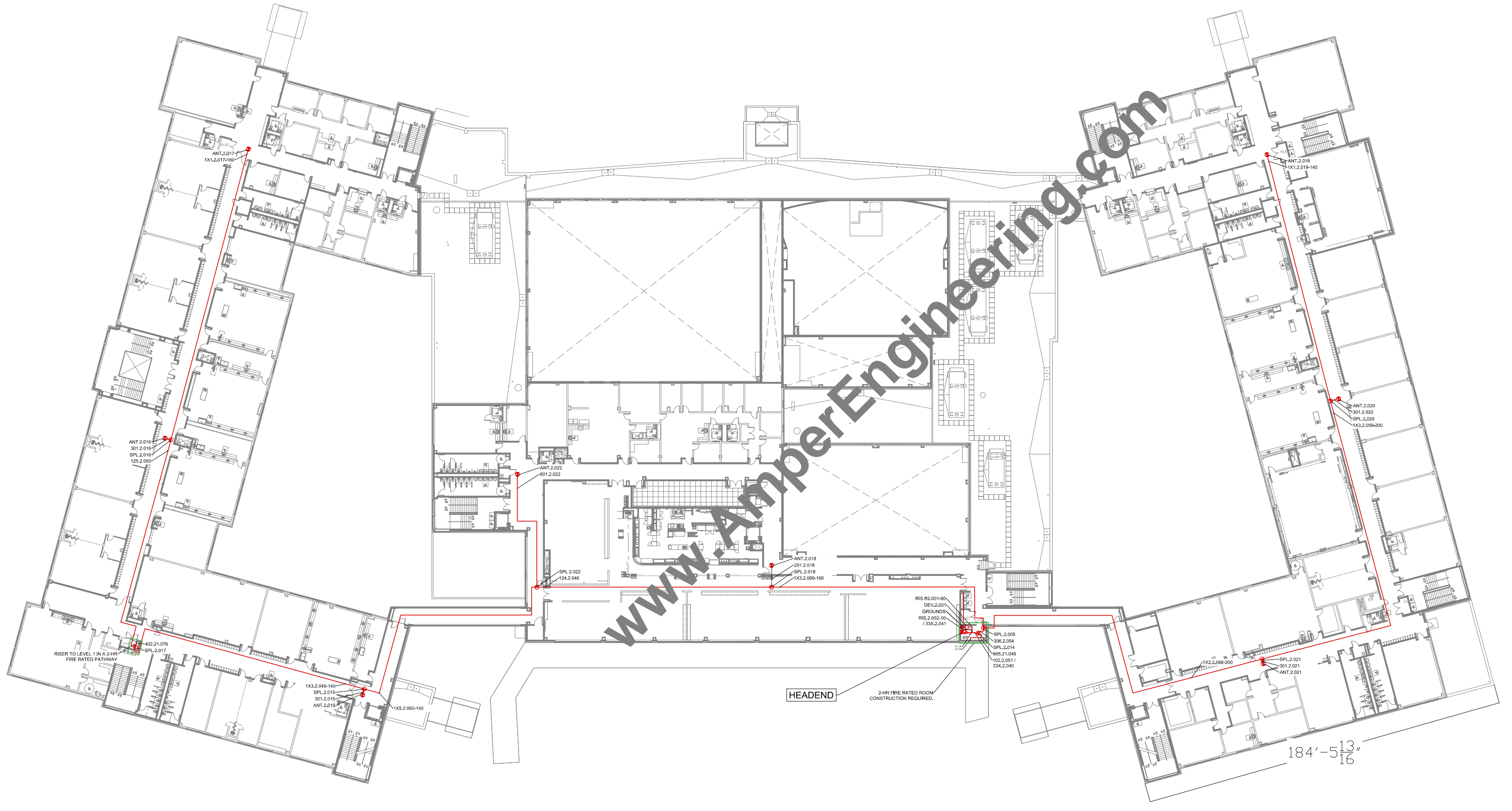
HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

| Revisions | | |
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| No. | Revision/Issue | Date |
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Date: 08/01/2019
Dwn By: MM
Chk By:
Size: E1 - 30x42
Scale: 1" = 32'
Do Not Scale Drawing

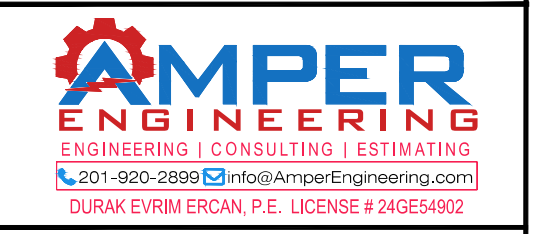
HIGH SCHOOL
ERRCS PLAN
FLOOR 1 PLAN
Dwg: DAS-2.01
Rev:

| SHEET NOTES | LEGEND |
|---|-------------------------------|
| 1. MINIMUM BEND RADIUS ON ALL COAX IS 12" | ANTENNA |
| 2. ALL PASSIVE DEVICES (SPLITTERS, ETC.) SHALL BE IN CEILING OR WALL MOUNTED NEAR JUNCTION BOXES, OR ENCLOSURES IF NOT ABOVE CEILINGS, U.O.N. | ANTENNA, DIRECTIONAL |
| 3. ALL ANTENNAS SHALL BE MOUNTED ON JUNCTION BOXES. | ANTENNA - DONOR |
| 4. ALL PLACEMENTS ARE DIAGRAMMATIC, COORDINATE LOCATIONS WITH EXISTING AND OTHER TRADES. | SURGE ARRESTOR |
| | DIRECTIONAL COUPLER |
| | SPLITTER |
| | 2-HR FIRE RATED PATHWAY REQ'D |



1 Second Floor Plan
SCALE: 1/32" = 1'-0"

SHOP DRAWING



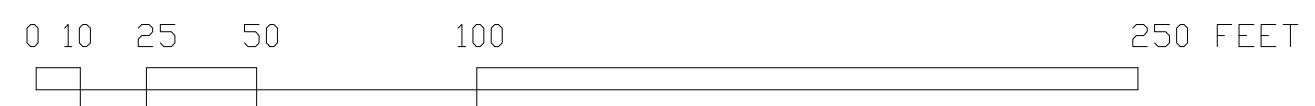
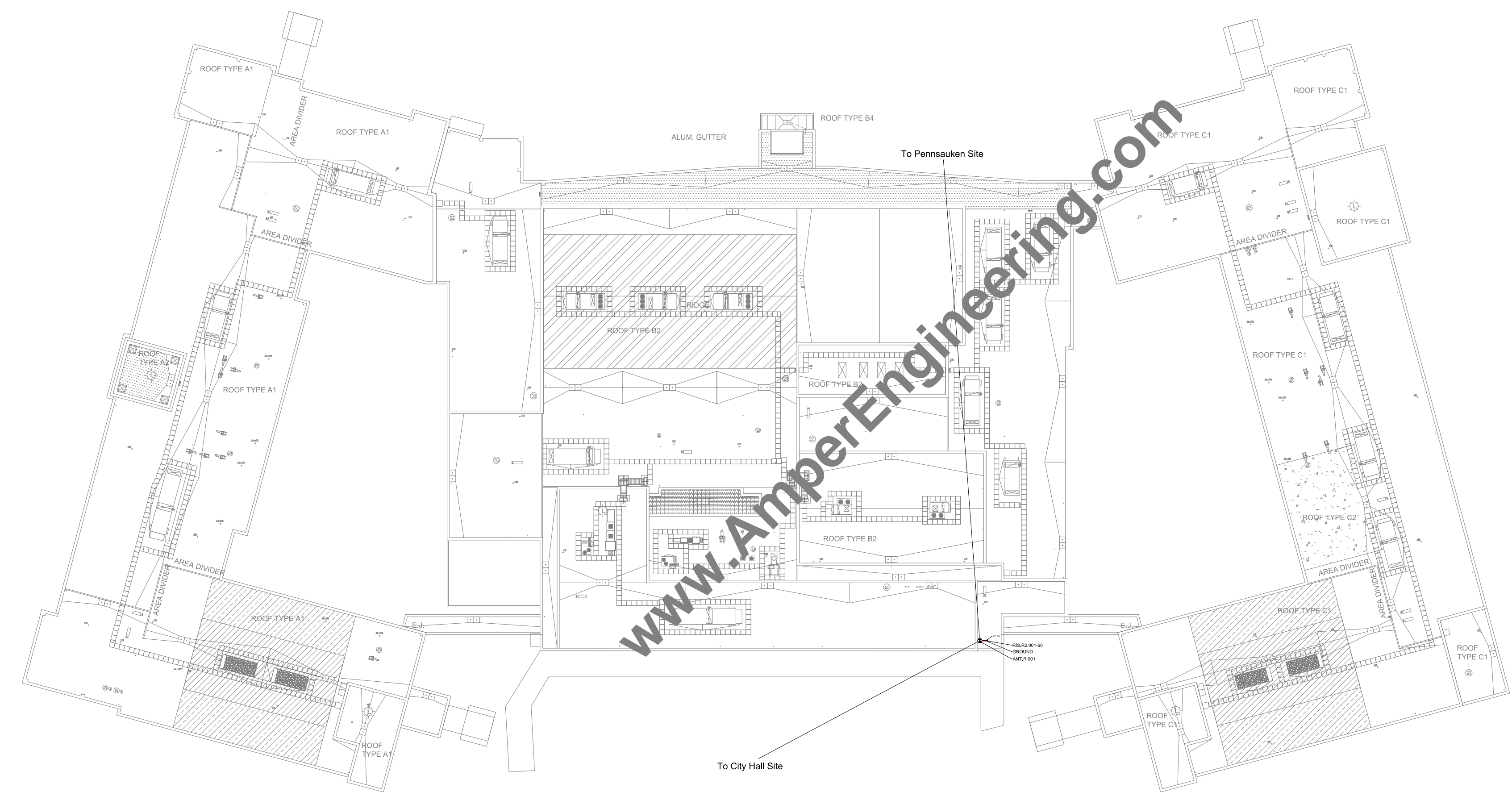
HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

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Date: 08/01/2019
Dwn By: MM
Chk By:
Size: E1 - 30x42
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Do Not Scale Drawing

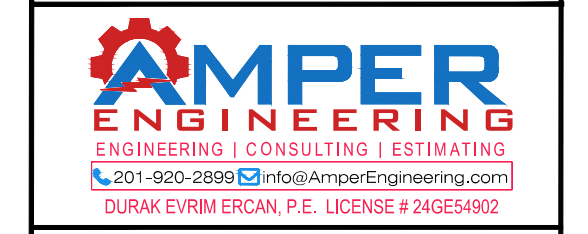
HIGH SCHOOL
ERRCS PLAN
FLOOR 2 PLAN
Dwg: DAS-2.02
Rev:

| SHEET NOTES | LEGEND |
|--|-------------------------|
| 1. RISER COAX RUN IN 2" VERTICAL CONDUIT WITH WEATHERHEAD. SEE DETAILS AND COORDINATE WITH ROOFING CONTRACTOR. | ⊙ ANTENNA |
| 2. ANTENNA SHALL BE MOUNTED ON A 1-1/2" - 2" MAST, MOUNTED TO THE WALL WITH 2-WALL MOUNT BRACKETS OR SLED MOUNT. | ⊙ ANTENNA - DIRECTIONAL |
| 3. MINIMUM BEND RADIUS ON ALL CONDUIT IS 6 TIMES CONDUIT DIAMETER. | ⊙ ANTENNA - DONOR |
| 4. MINIMUM BEND RADIUS ON FREE RUN COAX IS 12" | ⊙ SURGE ARRESTOR |
| 5. FINAL DIRECTION OF ANTENNA TBD WITH FIRE DEPARTMENT. | |
| 6. COAX AND ANTENNA SHALL BE GROUNDED PER NEC 2008 | |



1 Roof Plan
SCALE: 1/32" = 1'-0"

SHOP DRAWING



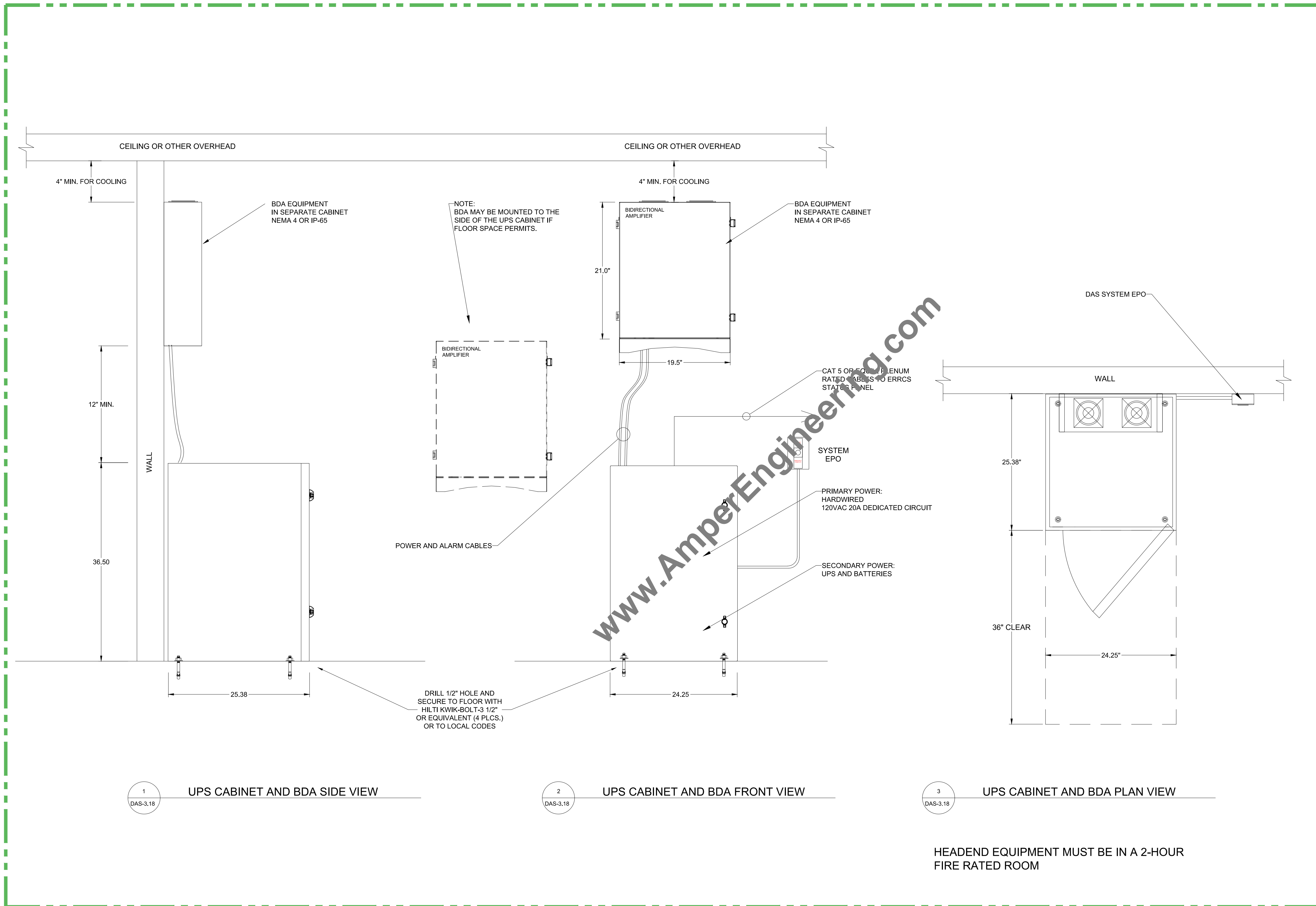
HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

| Revisions | | |
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| No. | Revision/Issue | Date |
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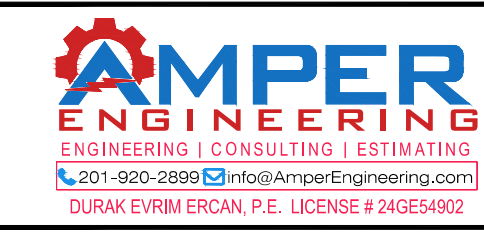
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Dwn By: MM
Chk By:
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Scale: 1" = 32'
Do Not Scale Drawing

√ HIGH SCHOOL
ERRCS PLAN
ROOF PLAN
Dwg: DAS-2.03
Rev:

DAS-IHS-042721.DWG
AE-1407



SHOP DRAWING

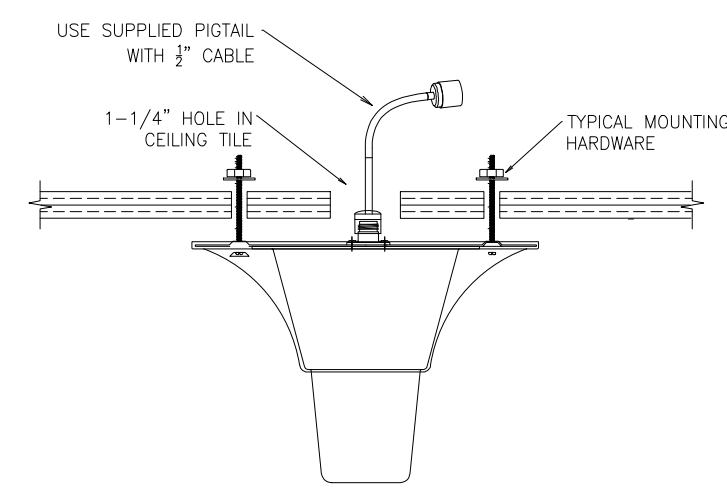


HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

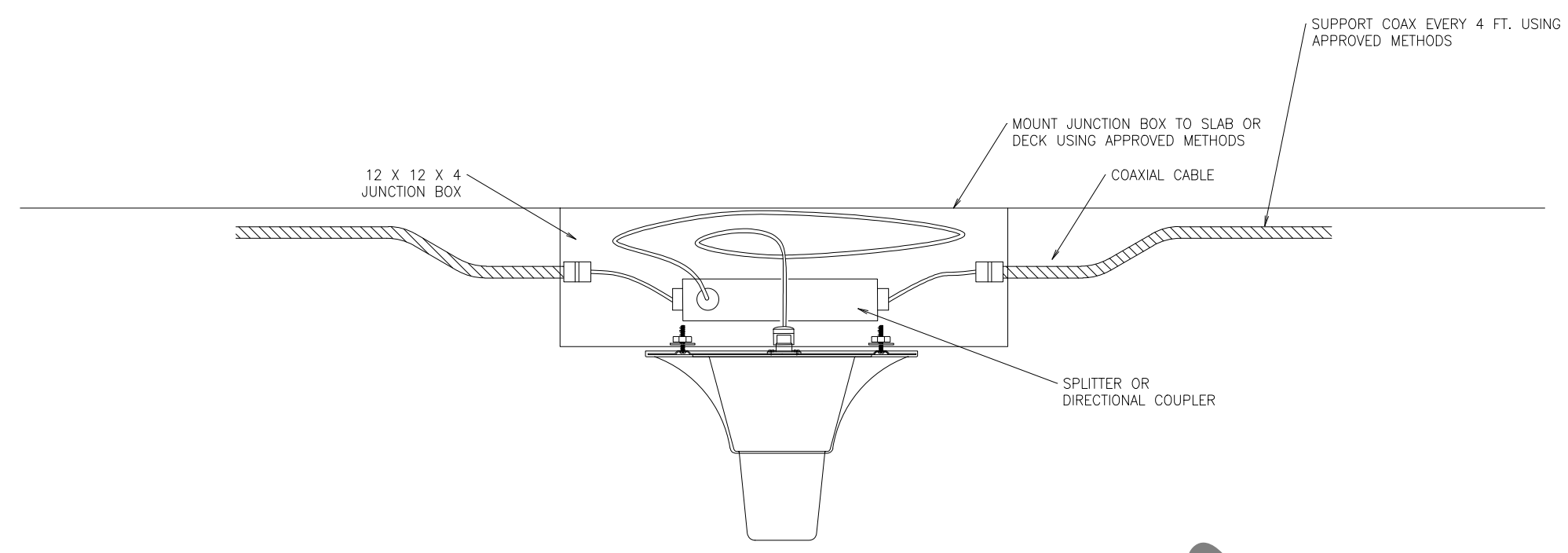
| Revisions | | |
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| No. | Revision/Issue | Date |
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Date: 08/01/2019
Dwn By: MM
Chk By:
Size: E1 - 30x42
Scale: None
Do Not Scale Drawing

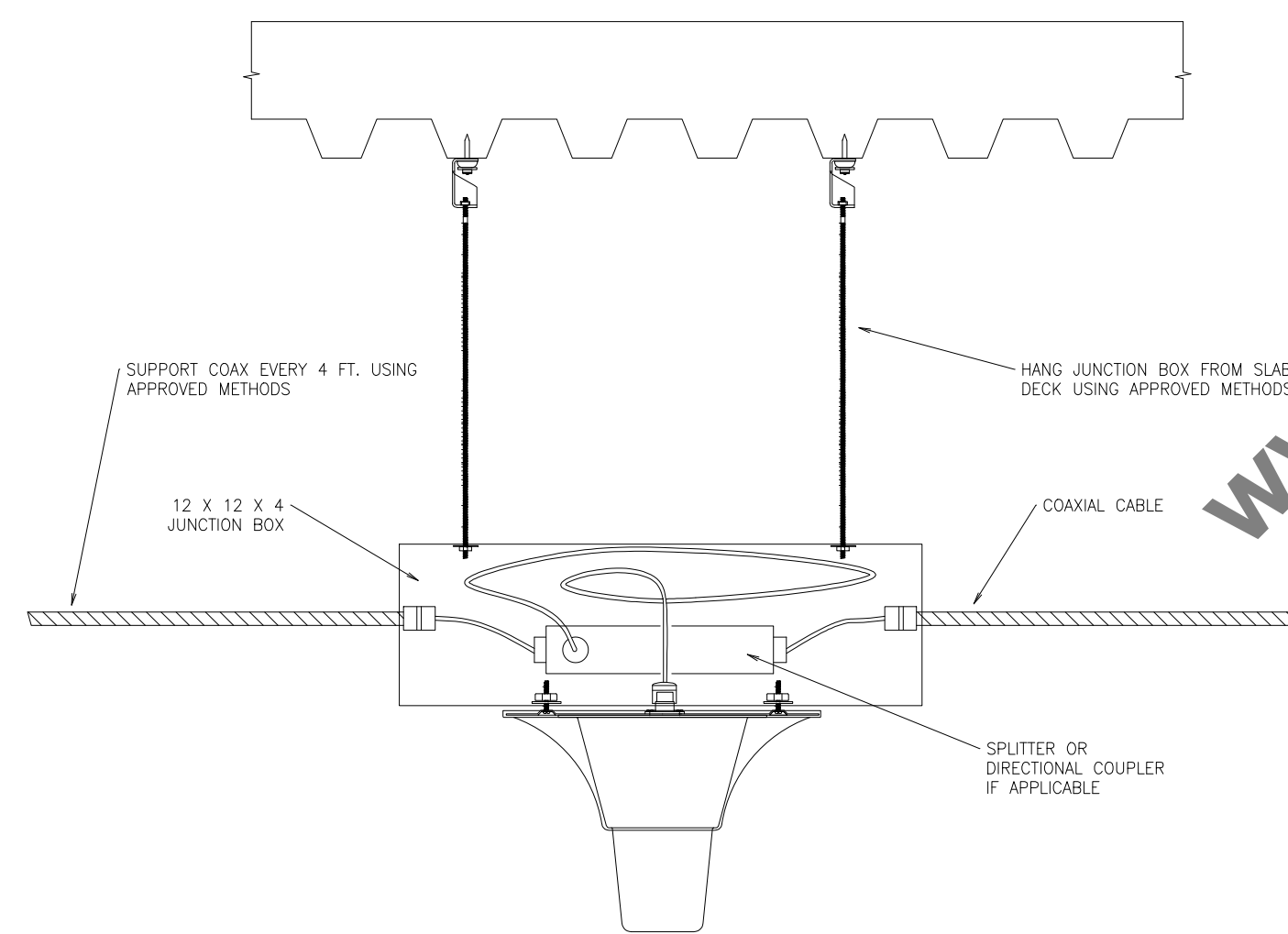
HIGH SCHOOL
ERRCS PLAN
HEADEND LAYOUT
Dwg: DAS-3.18
Rev:



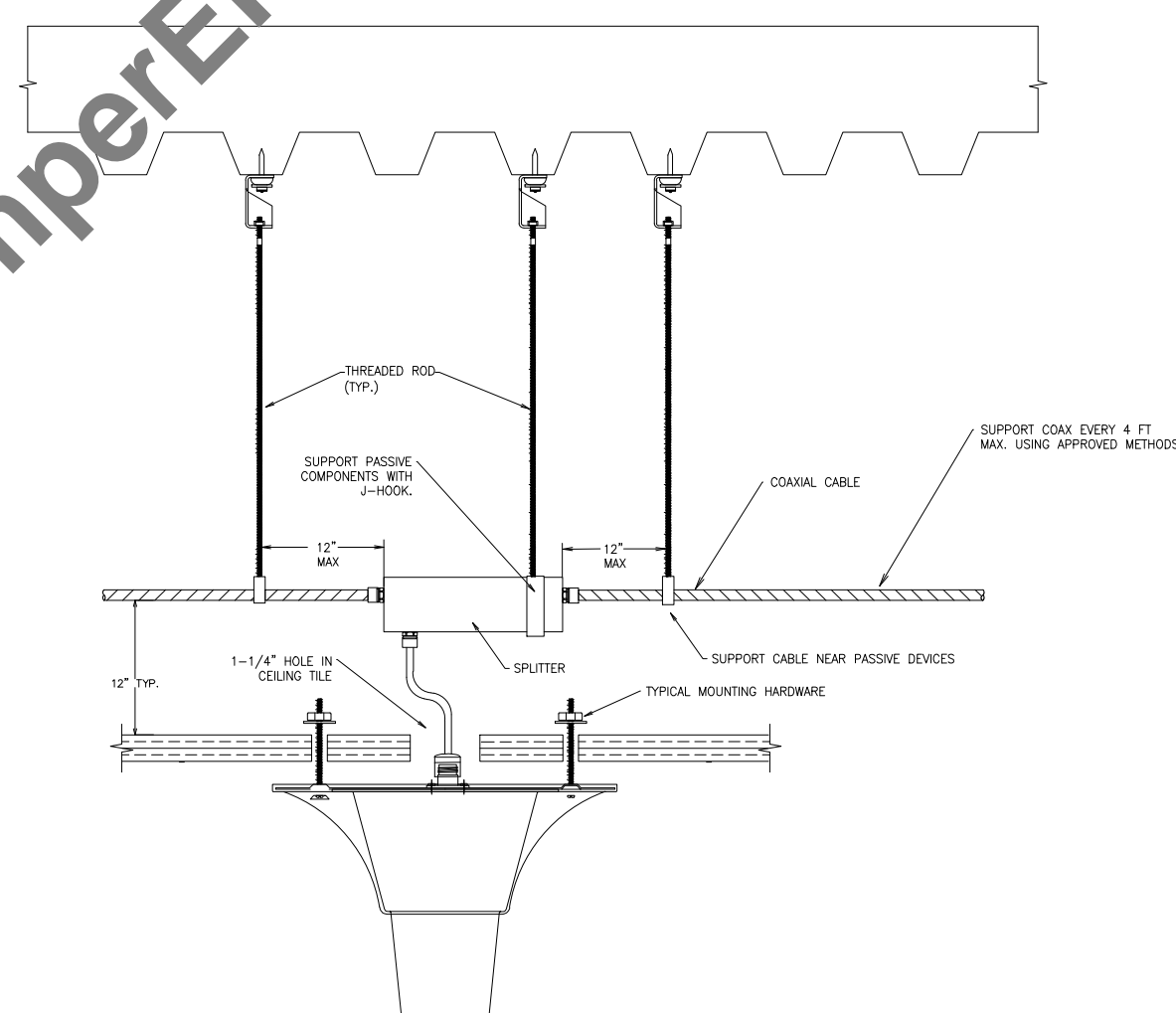
TYPICAL ANTENNA MOUNTED ON CEILING TILE
(N.T.S.)



TYPICAL ANTENNA ON SURFACE MOUNT J-BOX
(N.T.S.)



TYPICAL ANTENNA ON HANGING JUNCTION BOX
(N.T.S.)

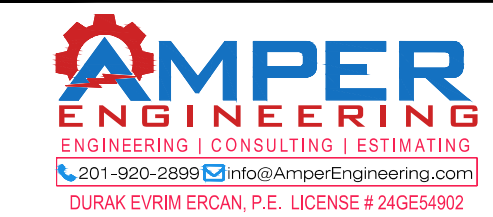


TYPICAL ANTENNA ON CEILING TILE WITH SUSPENDED SPLITTER AND COAX
(N.T.S.)

TYPICAL SERVICE ANTENNA MOUNTING EXAMPLES. OTHERS AVAILABLE TO SUIT.

INSTALL TO CONFORM TO ALL APPLICABLE CODES.

SHOP DRAWING



HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

Revisions

| No. | Revision/Issue | Date |
|-----|----------------|------|
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| | | |

Date: 08/01/2019

Dwn By: MM

Chk By:

Size: E1 - 30x42

Scale: None

Do Not Scale Drawing

HIGH SCHOOL
ERRCS PLAN

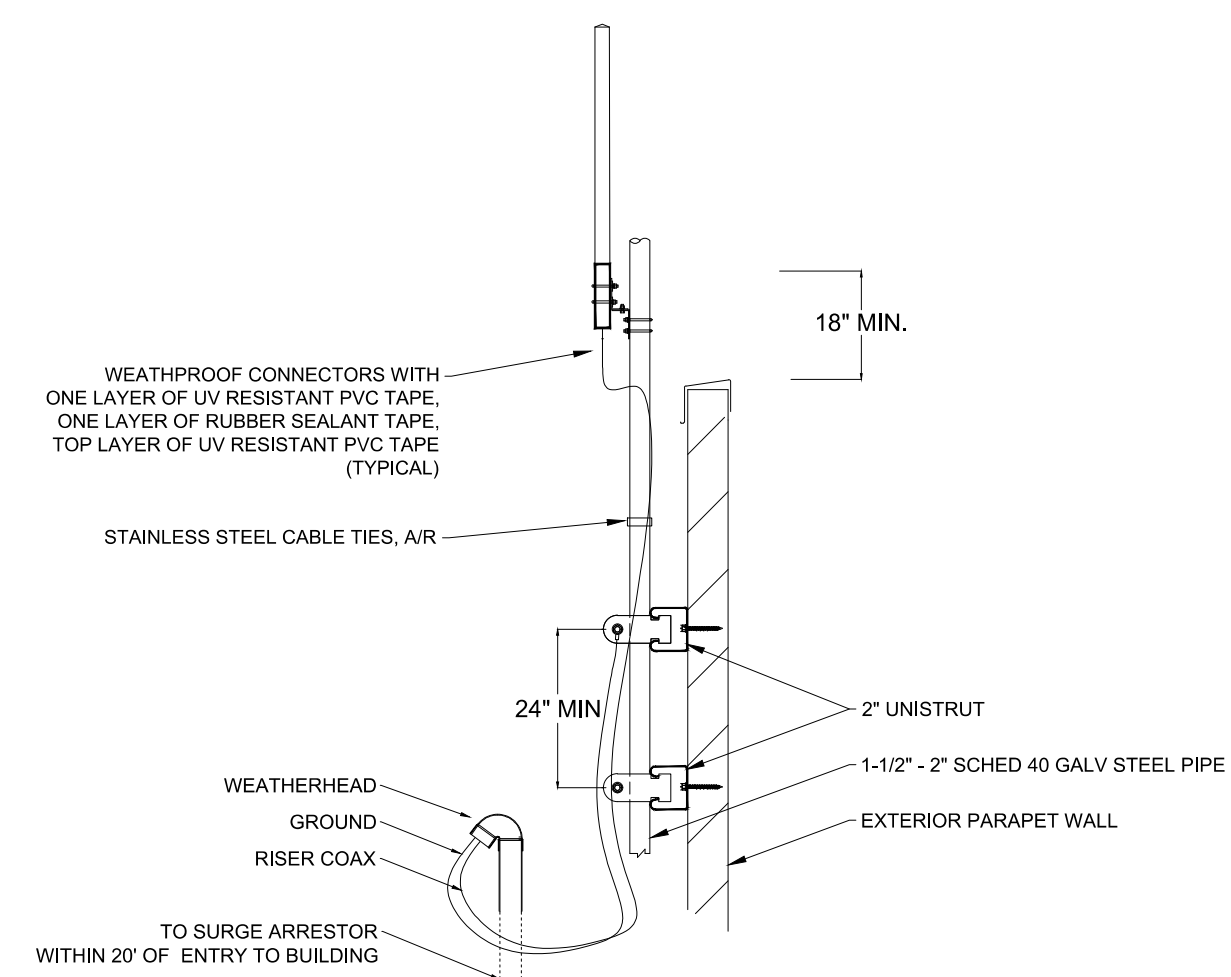
INDOOR ANTENNA EX.

Dwg:

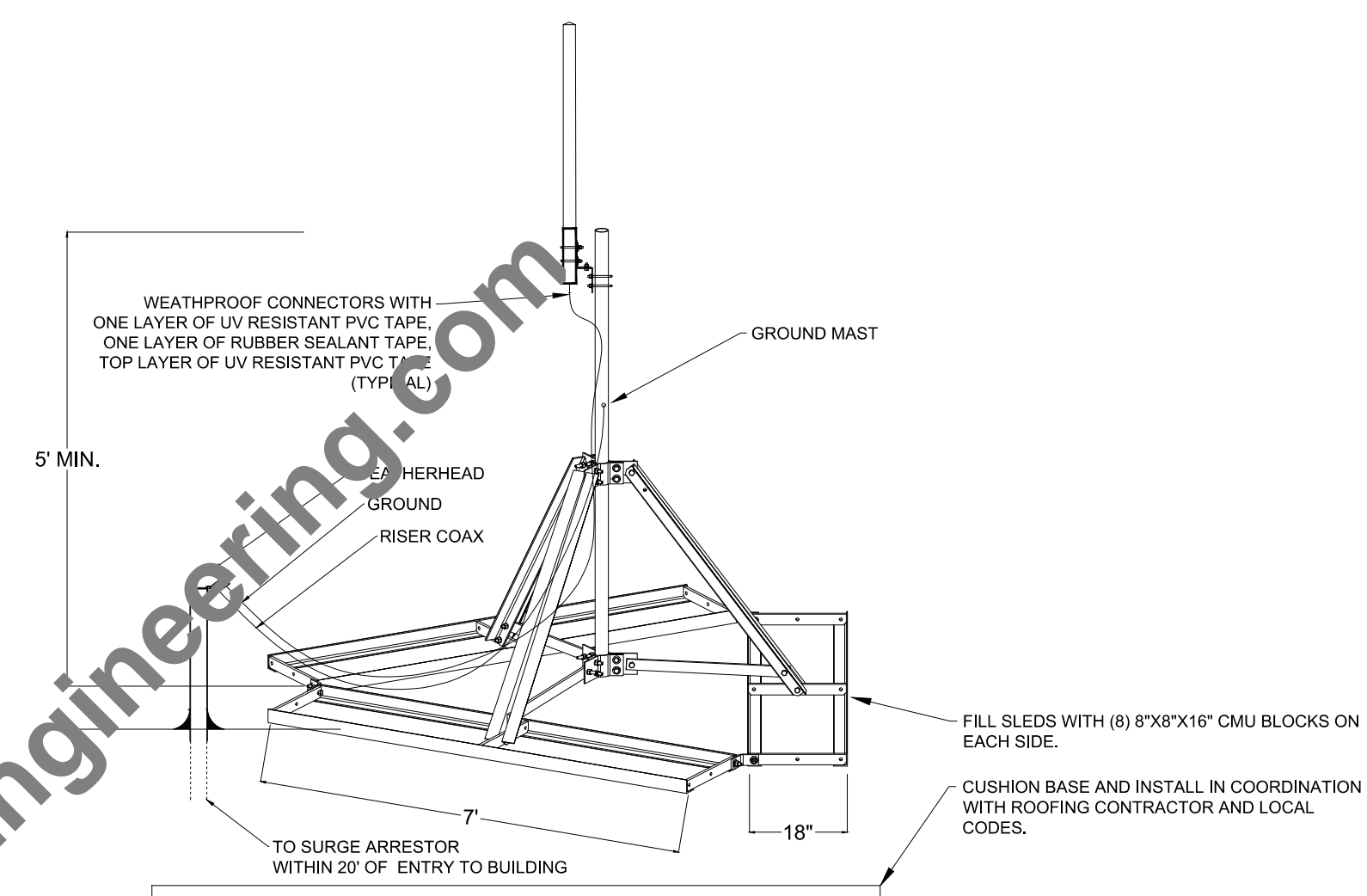
DAS-3.30

Rev:

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AE-1407



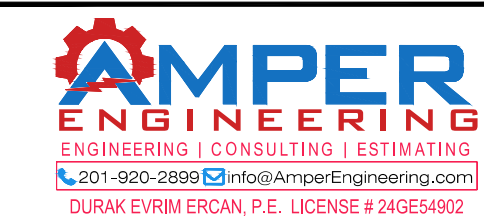
DONOR ANTENNA MOUNTING ON PARAPET OR STRAIGHT WALL (NTS)



DONOR ANTENNA MOUNTING ON SLED MOUNT (NTS)

TYPICAL DONOR ANTENNA MOUNTING EXAMPLES. OTHERS AVAILABLE TO SUIT.
 COORDINATE WITH ROOFING OR BUILDING ENGINEER.
 INSTALL TO CONFORM TO ALL APPLICABLE CODES.
 GROUND TO NEC 250.

SHOP DRAWING



HIGH SCHOOL
 EMERGENCY RESPONDER
 RADIO COVERAGE SYSTEM

Revisions

| No. | Revision/Issue | Date |
|-----|----------------|------|
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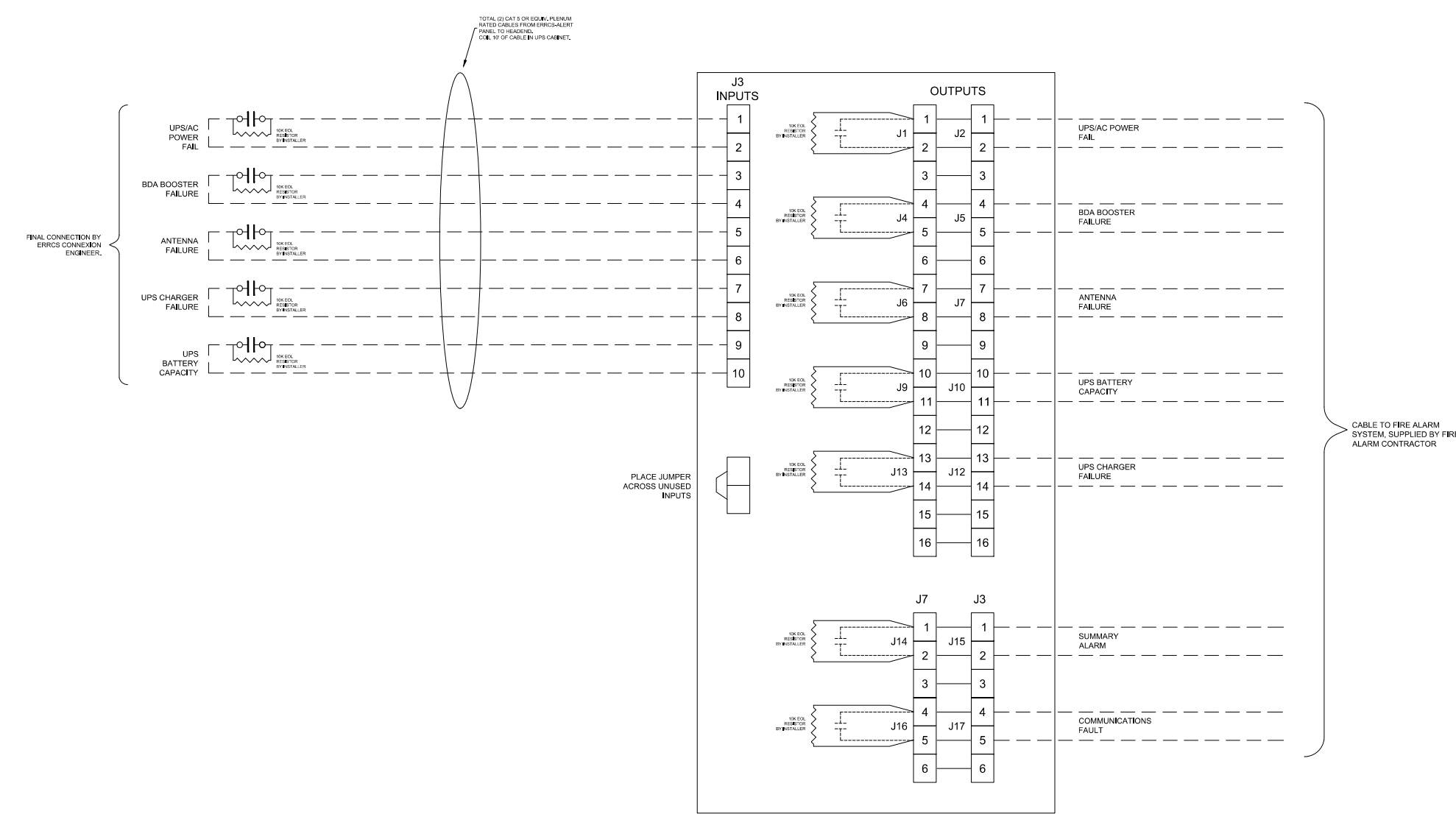
Date: 08/01/2019
 Dwn By: MM
 Chk By:
 Size: E1 - 30x42
 Scale: None
 Do Not Scale Drawing

HIGH SCHOOL
 ERRCS PLAN

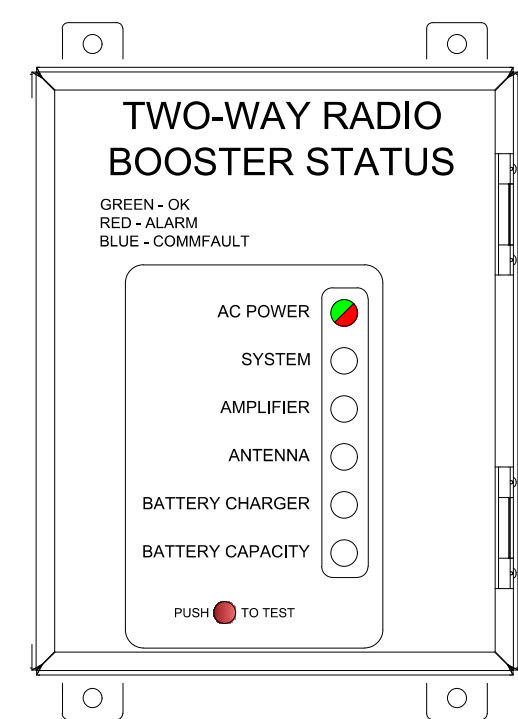
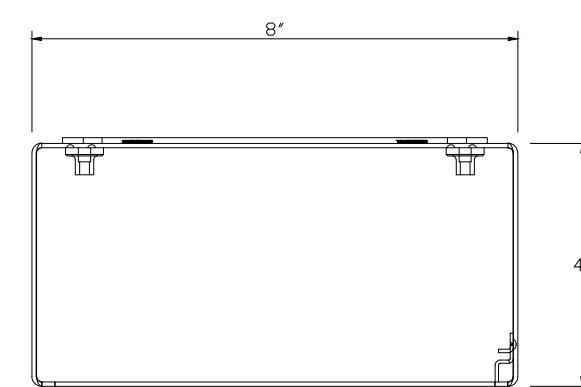
DONOR ANTENNA EXAMPLES

Dwg: DAS-3.40
 Rev:

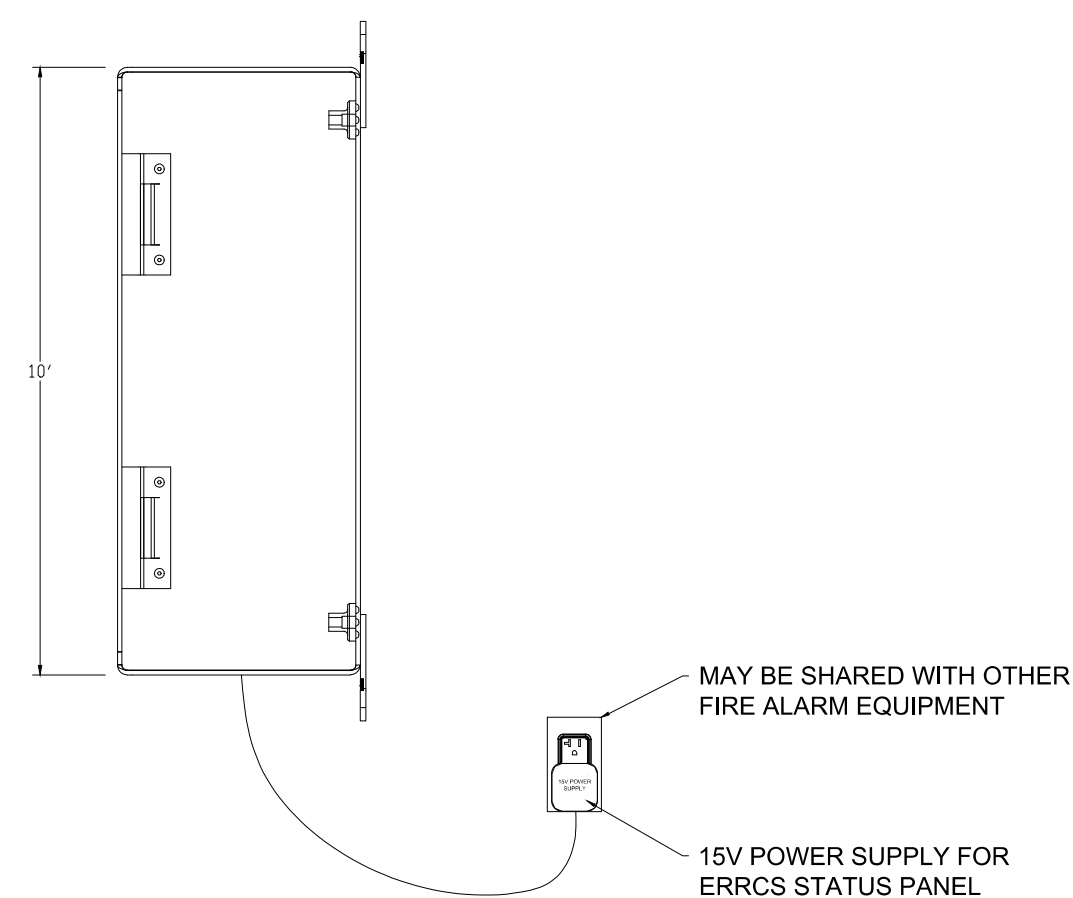
DAS-IHS-042721.DWG
 AE-1407



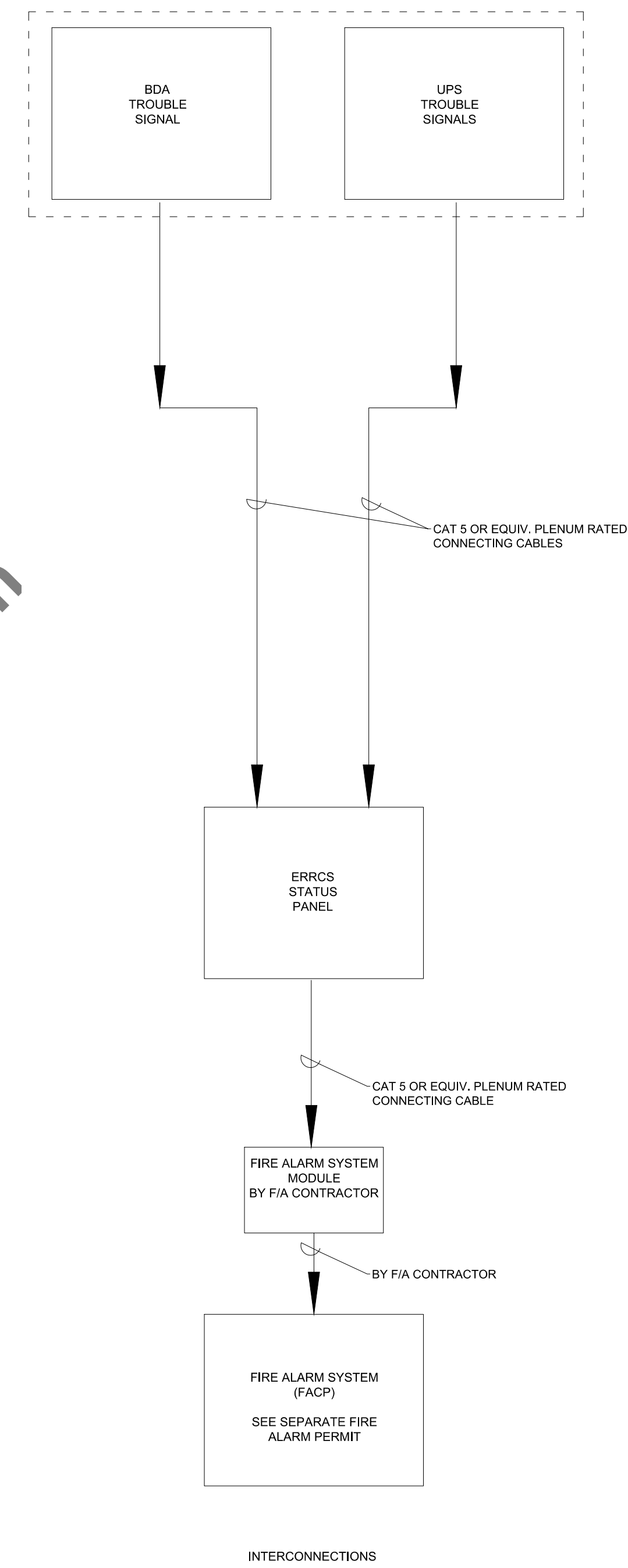
ERRCS STATUS PANEL CONNECTIONS



ERRCS STATUS PANEL ASSEMBLY ADJACENT TO FACP



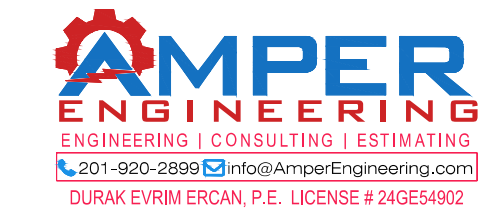
www.AmperEngineering.com



ERRCS STATUS PANEL INSTALLATION AND WIRING IN AND TO FIRE CONTROL TO BE COORDINATED WITH FIRE ALARM DESIGNER/CONTRACTOR AND GC

Five (5) inputs are typically needed for ERRCS alarming purposes. The relay module and the connection to the Fire Alarm system to be provided by others.

SHOP DRAWING



HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

Revisions

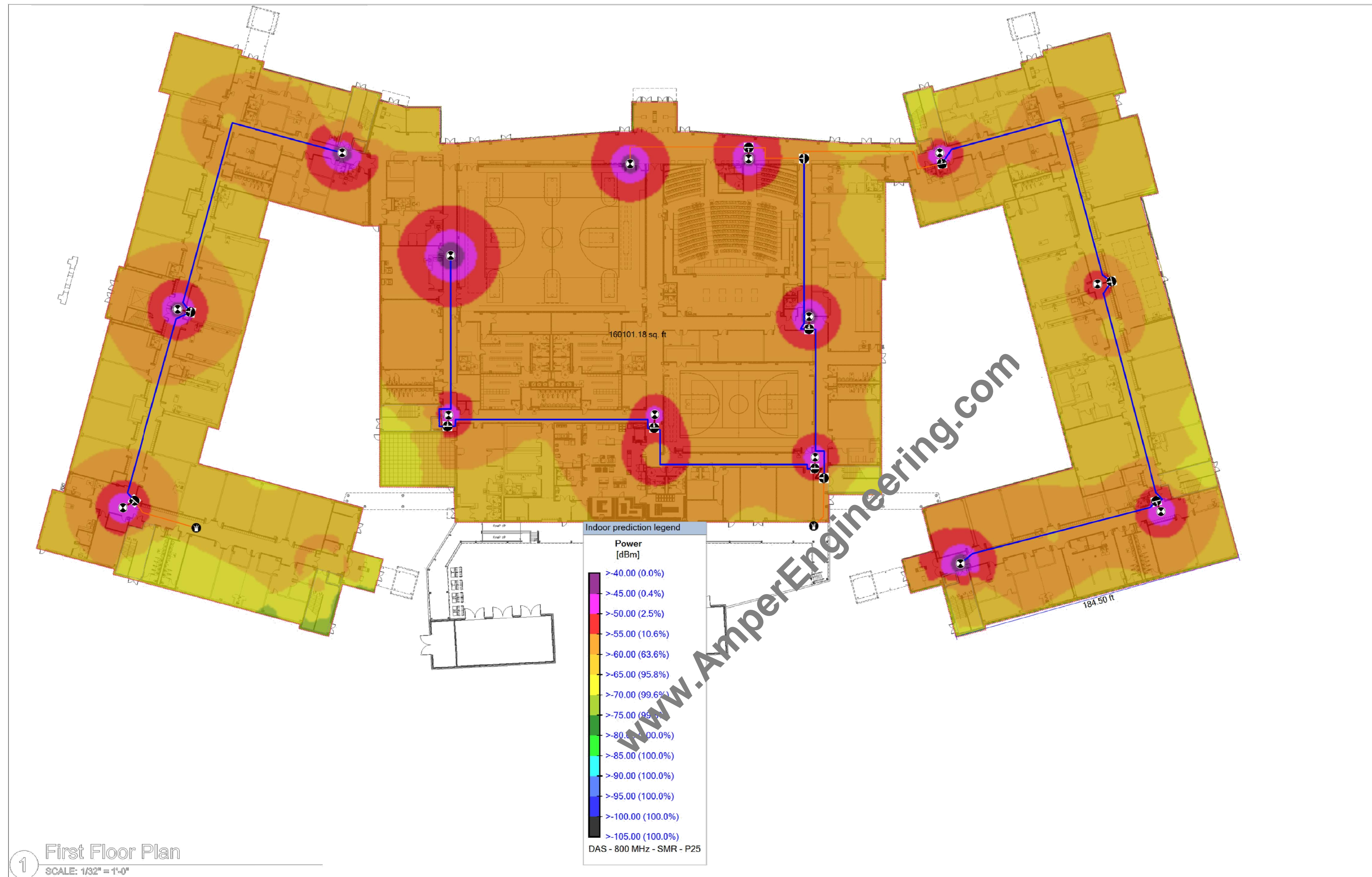
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Date: 08/01/2019
Dwn By: MM
Chk By:
Size: E1 - 30x42
Scale: None
Do Not Scale Drawing

HIGH SCHOOL
ERRCS PLAN
F/A INTERCONNECTION

Dwg: DAS-4.00
Rev:

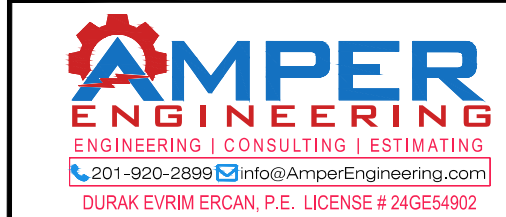
DAS-IHS-042721.DWG
AE-1407



Camden High School
DAS Connexion

Created on 4/23/2021

SHOP DRAWING



HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

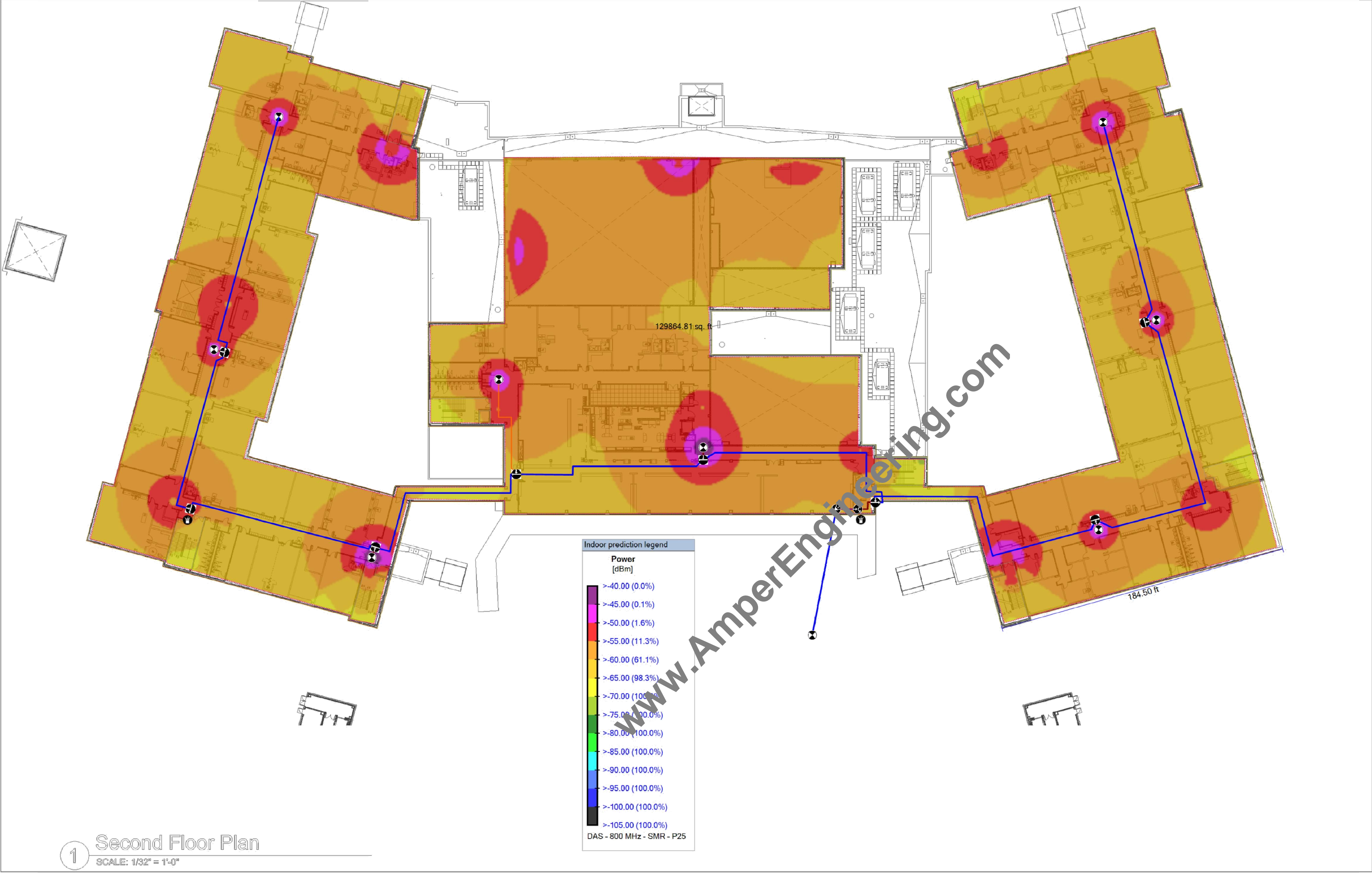
Revisions

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Date: 08/01/2019
Dwn By: MM
Chk By:
Size: E1 - 30x42
Scale: None
Do Not Scale Drawing

HIGH SCHOOL
ERRCS PLAN
HEAT MAP - LEVEL 1
Dwg: DAS-5.01
Rev:

DAS- IHS-042721.DWG
AE-1407

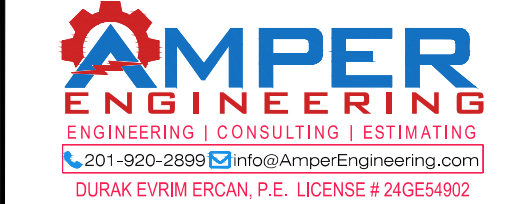


1 Second Floor Plan
SCALE: 1/32" = 1'-0"

Camden High School
DAS Connexion

Created on 4/23/2021

SHOP DRAWING



HIGH SCHOOL
EMERGENCY RESPONDER
RADIO COVERAGE SYSTEM

| Revisions | | |
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| No. | Revision/Issue | Date |
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Date: 08/01/2019
Dwn By: MM
Chk By:
Size: E1 - 30x42
Scale: None
Do Not Scale Drawing

HIGH SCHOOL
ERRCS PLAN
HEAT MAP - LEVEL 2
Dwg: DAS-5.02
Rev:

DAS- IHS-042721.DWG
AE-1407