

SHEET NOTES

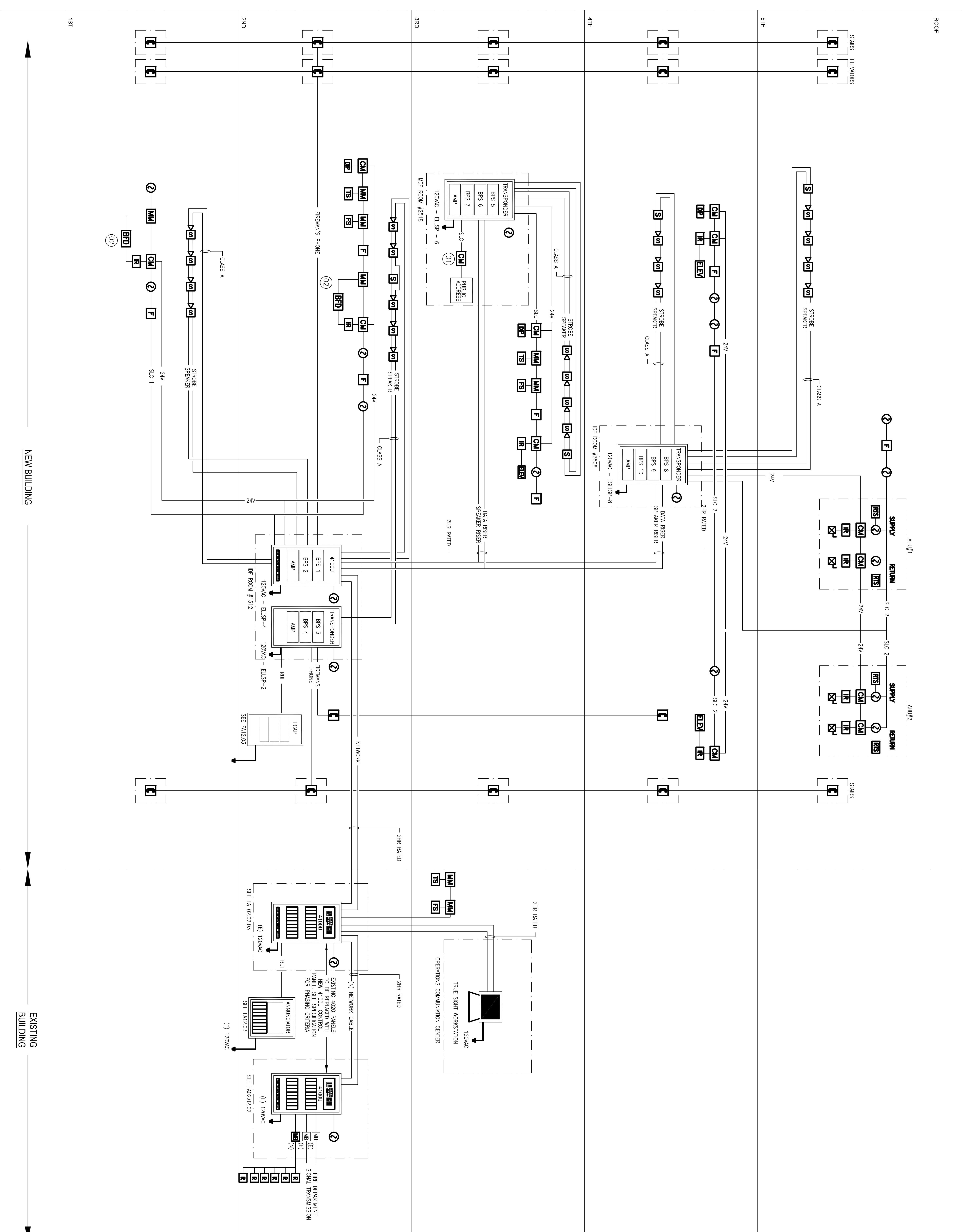
- (11) CONDUIT AND CABLE BETWEEN THE TRANSPONDER AND PUBLIC ADDRESS ANNOUNCEMENT CONTROL SYSTEM FOR FUTURE USE.
- (12) A MONITOR MODULE AND CONTROL MODULE SHALL BE INSTALLED AT EACH BAGGAGE FIRE BLOOR IN CARS WHERE BLOOR BOUNDARY. THE DEVICES SHALL ALWAYS BE LOCATED ON THE SECURE SIDE CONNECTION FROM THE MODULES TO THE FIRE DOOR CONNECT MODULES SHALL BE BY THE FIRE DOOR. HOWEVER, THE FIRE ALARM CONTRACTOR SHALL BE PRESENT. THE DOOR SHALL CLOSE WHEN ITS RESPECTIVE SMOKE SIGNAL ALSO PROVIDE THE SYSTEM WITH A SIGNAL THAT INDICATES THAT THE DOOR ON THE FIRE ALARM SYSTEM SHALL SEND THE SIGNAL THAT THE DOOR HAS BEEN CLOSED.

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GENERAL NOTES

- A FOR GENERAL NOTES, FIRE ALARM CONVERSION METHODS AND PHASING, REFER TO DRAWING FA00.00.
- B FOR SYMBOLS AND ABBREVIATIONS, REFER TO DRAWING FA00.01.
- C THIS RISER DRAWING IS DIAGRAMMATICAL AND FOR REFERENCE ONLY. THE NUMBER OF DEVICES SHOWN IN THIS DRAWING IS ONLY A REPRESENTATION OF THE EXACT NUMBER OF DEVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING A COMPLETE RISER DIAGRAM AND REFLECT THE ACTUAL NUMBER OF DEVICES.
- D THE FIRE ALARM SYSTEM SHALL BE ARRANGED SO ONE MASTER BOX DOES NOT SERVE MORE THAN 100,000 SQUARE FEET OF TOTAL FIRE AREA. ADDITIONAL BOXES WILL BE REQUIRED FOR ANY PORTION GREATER THAN 100,000 SQUARE FEET.
- E EACH OF THE FIVE LEVELS IN THE TERMINAL EXPANSION SHALL BE PROGRAMMED INDEPENDENTLY AS A ZONE FOR THE MASTER BOX.
- F ALL NETWORK CABLING AND CONDUIT BETWEEN EXISTING PANELS SHALL BE NEW.
- G THE MINIMUM DISTANCE BETWEEN CLASS A NETWORK CONDUITS SHALL BE TEN FEET.

KEY PLAN

Project Name: **PJM1 TERMINAL EXPANSION**
 Contract Number: **FA12.00**
 Description: **FIRE ALARM FIRE RISER DIAGRAM**
 Scale: **As Indicated**



Issue Date & Issue Description: **145 09/01/11 ISSUED FOR CONSTRUCTION**
 By: **SJB RAK**

SHEET NOTES

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Project Name: PMW TERMINAL EXPANSION

Issue Date & Issue Description: 145 09/01/11 ISSUED FOR CONSTRUCTION

By: SJB RKA

Checked: SJB RKA

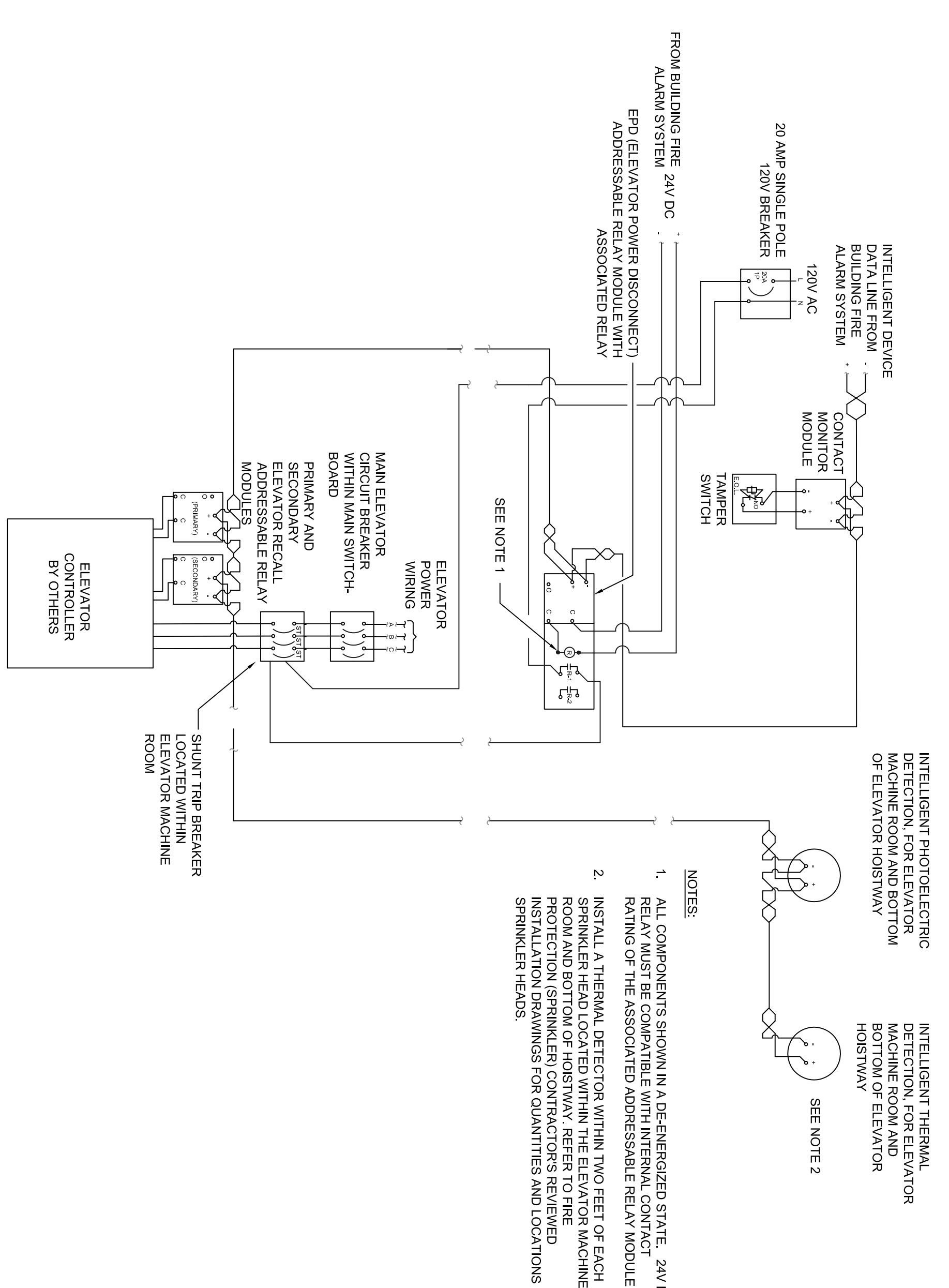
Contract Number: FA12.01

Contract Title: FIRE ALARM PANEL DIAGRAM

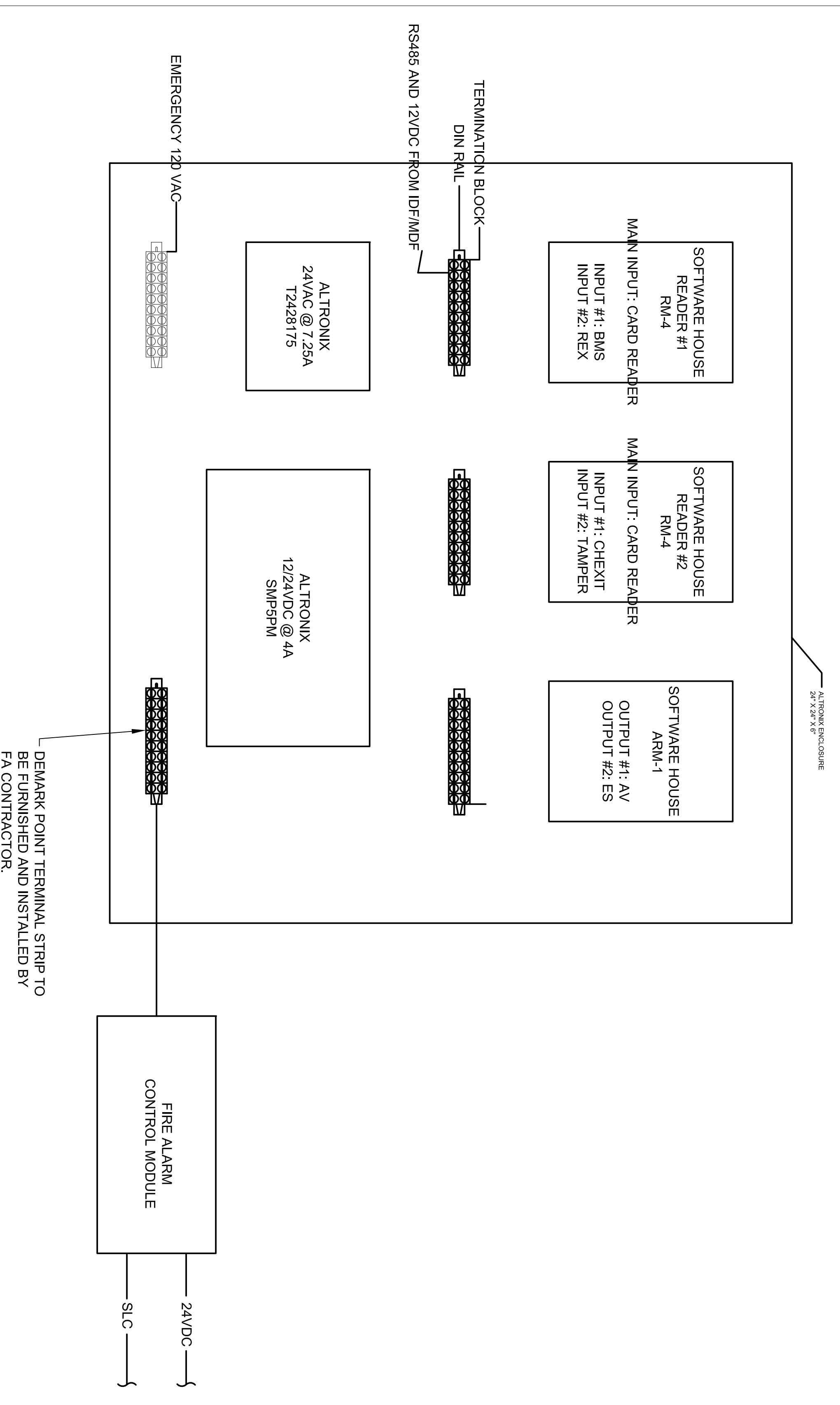
As Indicated

FA12.01

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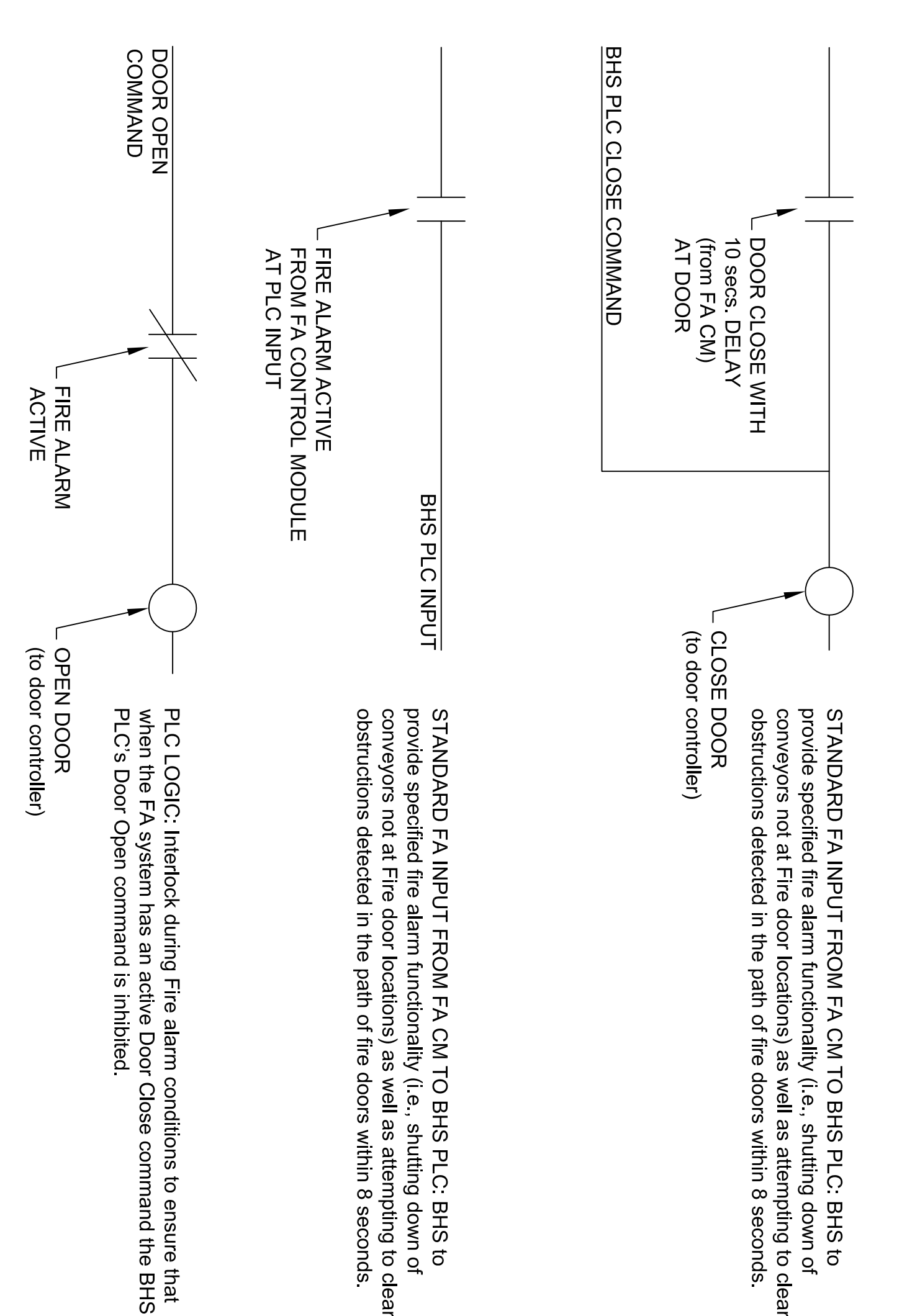
2 TYPICAL ELEVATOR SHUNT TRIP DETAIL



1 TYPICAL DOOR INTERFACE PANEL

FIRE ALARM - BHS SYSTEM SEQUENCE OF OPERATION

- GENERAL: FA TO DELAY CLOSING OF FIRE DOORS FOR 10 SECS FOR ALL DOORS UPON FA ACTIVATION.
1. IF DOOR IS CLEAR AT THE TIME OF FA ACTIVATION, BHS SHALL IMMEDIATELY CLOSE DOOR. FA TO ALSO SEND A CLOSE DOOR SIGNAL AFTER 10 SEC COMPLY WITH CODE.
 2. IF DOOR IS BLOCKED AT THE TIME OF FA ACTIVATION, BHS SHALL ATTEMPT TO CLEAR DOOR BY ADVANCING ADJACENT CONVEYORS FOR UP TO 3 ATTEMPTS - 2 SECONDS CONVEYOR RUN EACH WITH 1 SECOND IN BETWEEN ATTEMPTS.
 - A. IF DOOR CLEARS WITHIN 3 ATTEMPTS, BHS TO CLOSE DOOR. FA TO ALSO SEND A CLOSE DOOR SIGNAL AFTER 10 SEC COMPLY WITH CODE.
 - B. IF BHS FAILS TO CLEAR DOOR WITHIN 3 ATTEMPTS, BHS TO CLOSE DOOR ON TOP OF OBSTRUCTION. FA TO ALSO SEND A CLOSE DOOR SIGNAL AFTER 10 SEC COMPLY WITH CODE.



3 TYPICAL BHS FIRE DOOR INTERFACE DIAGRAM

DETAILS

SCALE: NOT TO SCALE

GENERAL NOTES

- A. FIRE ALARM CONTRACTOR SHALL COORDINATE WITH THE SECURITY CONTRACTOR FOR THE LOCATION OF THE LOCATION OF DOOR INTERFACE PANEL.
- B. INSTALLATION AND INTERFACING OF THE CONTROL MODULE WITH THE DOOR INTERFACE PANEL SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. THE SECURITY CONTRACTOR SHALL BE PERFORMED IN THE PRESENCE OF THE SECURITY CONTRACTOR.

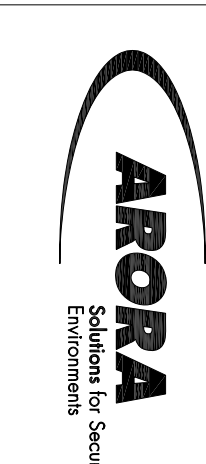
KEY PLAN

SHEET NOTES

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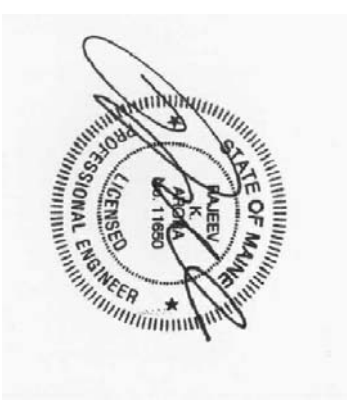
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GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IBC 2003, NFPA 90A, NFPA 72, NEC, ADAMS AND ALL APPLICABLE LOCAL CODES.

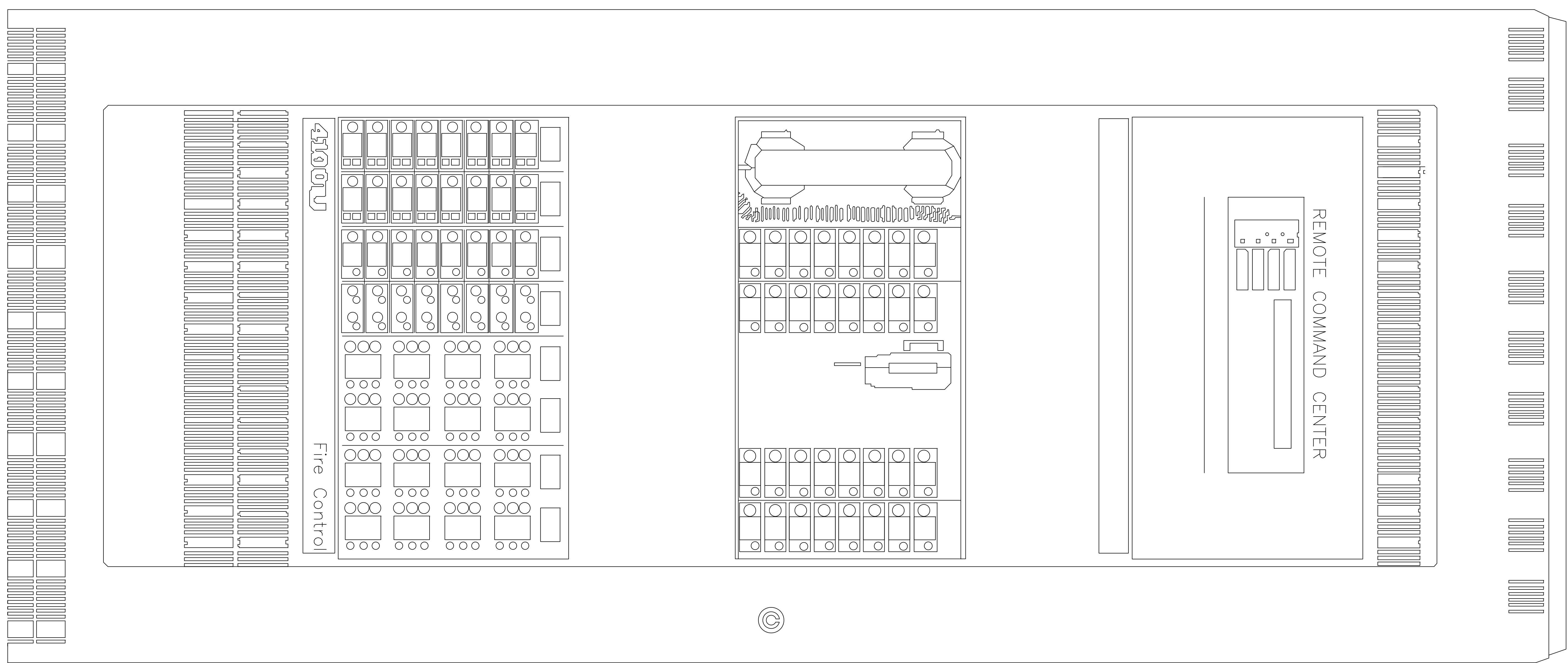
KEY PLAN

Issue	Date & Issue Description	By	Check
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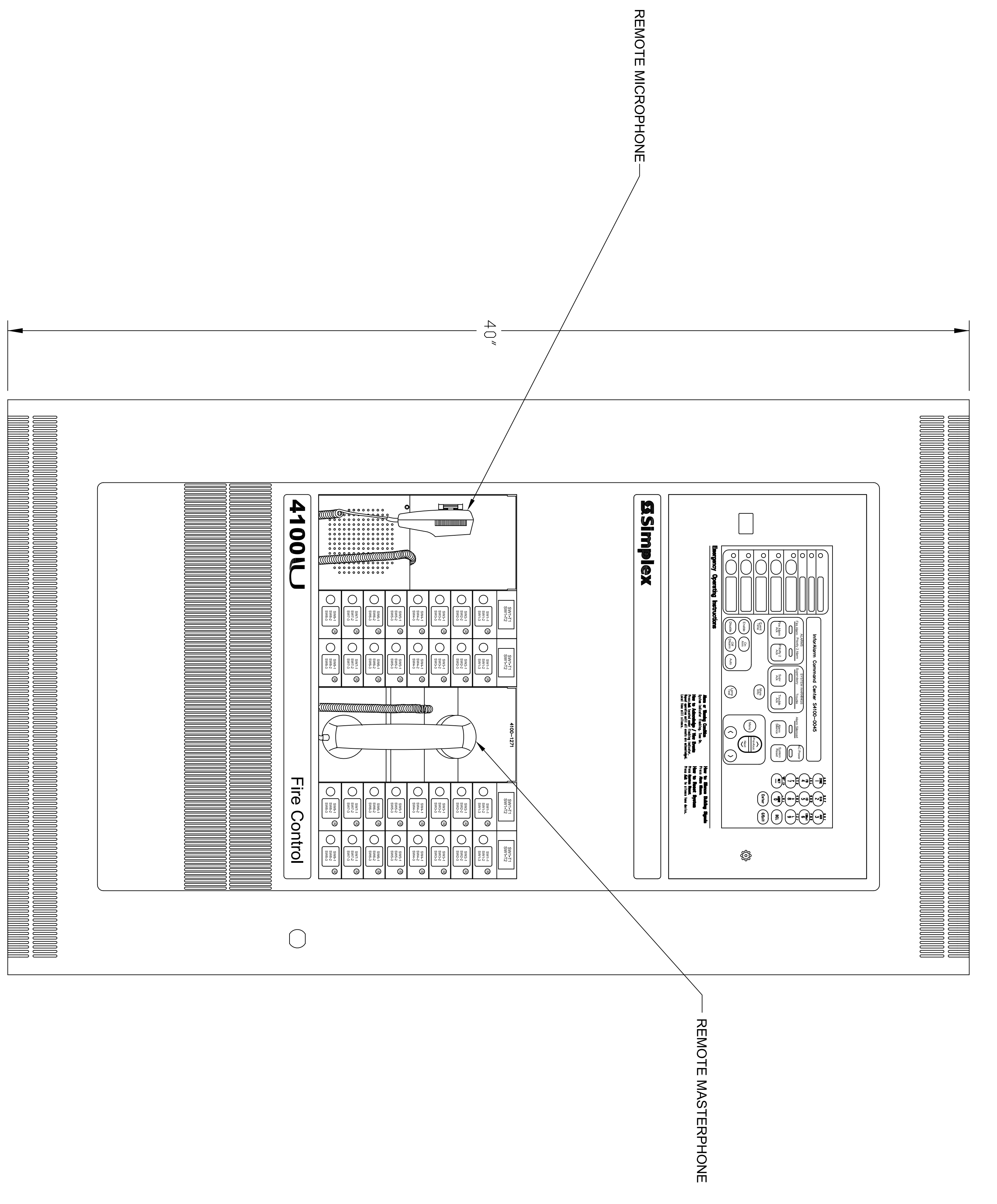


Project Name: PMA TERMINAL EXPANSION
 Contract Number:
 CAD File Name: FA12.03
 Description: FIRE ALARM DETAILS
 Title: As Indicated

FA12.03
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1 TYPICAL 4100 FIRE ALARM CONTROL PANEL
FA12.03 NTS



2 TYPICAL REMOTE ANNUNCIATOR PANEL
FA12.03 NTS

DETAILS

SCALE: NOT TO SCALE

SHEET NOTES

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Project Name
PMVA TERMINAL EXPANSION

Project Number
FA12.04

Contract No./Name
FA12.04

Description
**FIRE ALARM
DETAILS**

Scale
As Indicated

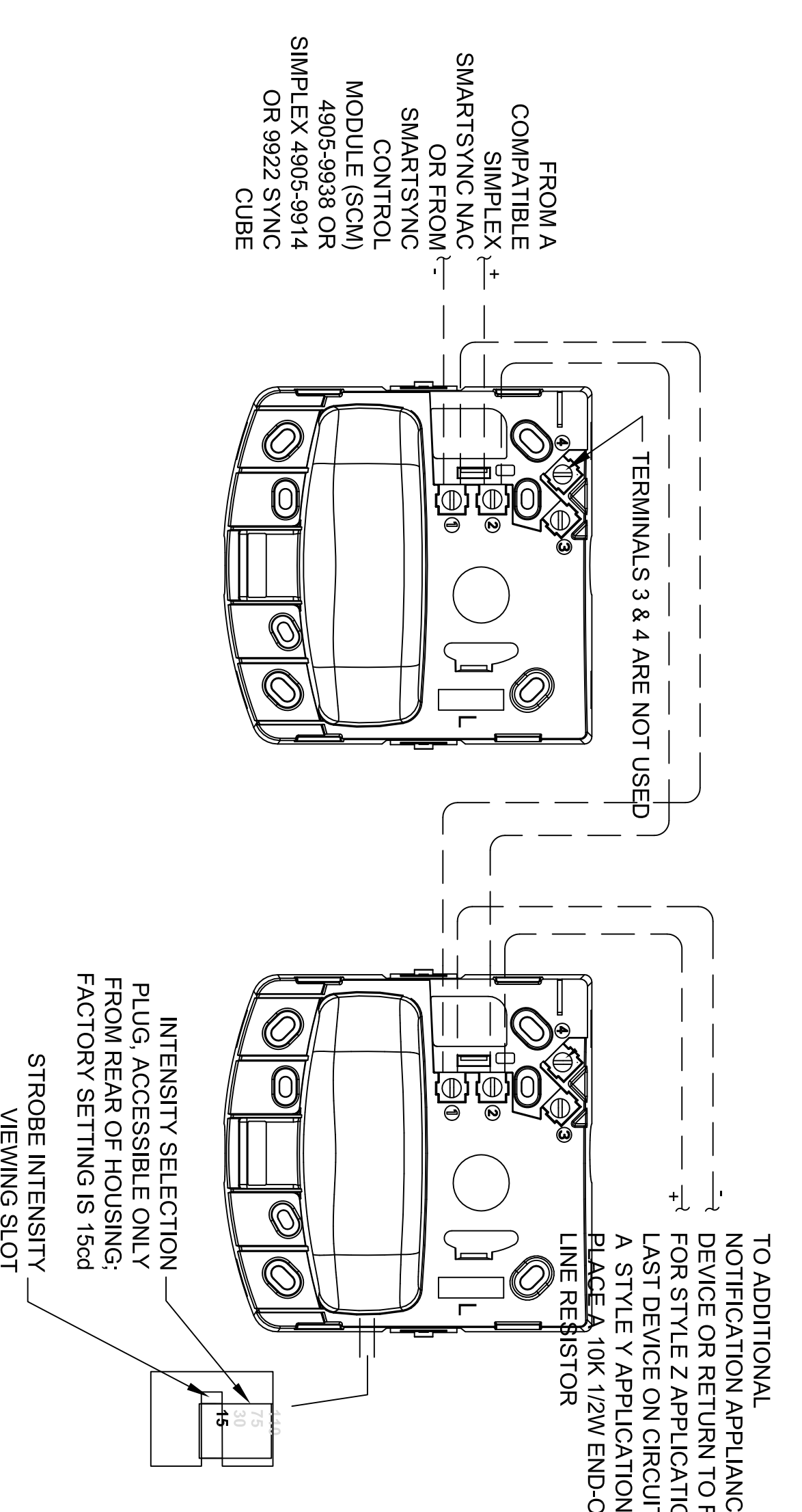


GENERAL NOTES

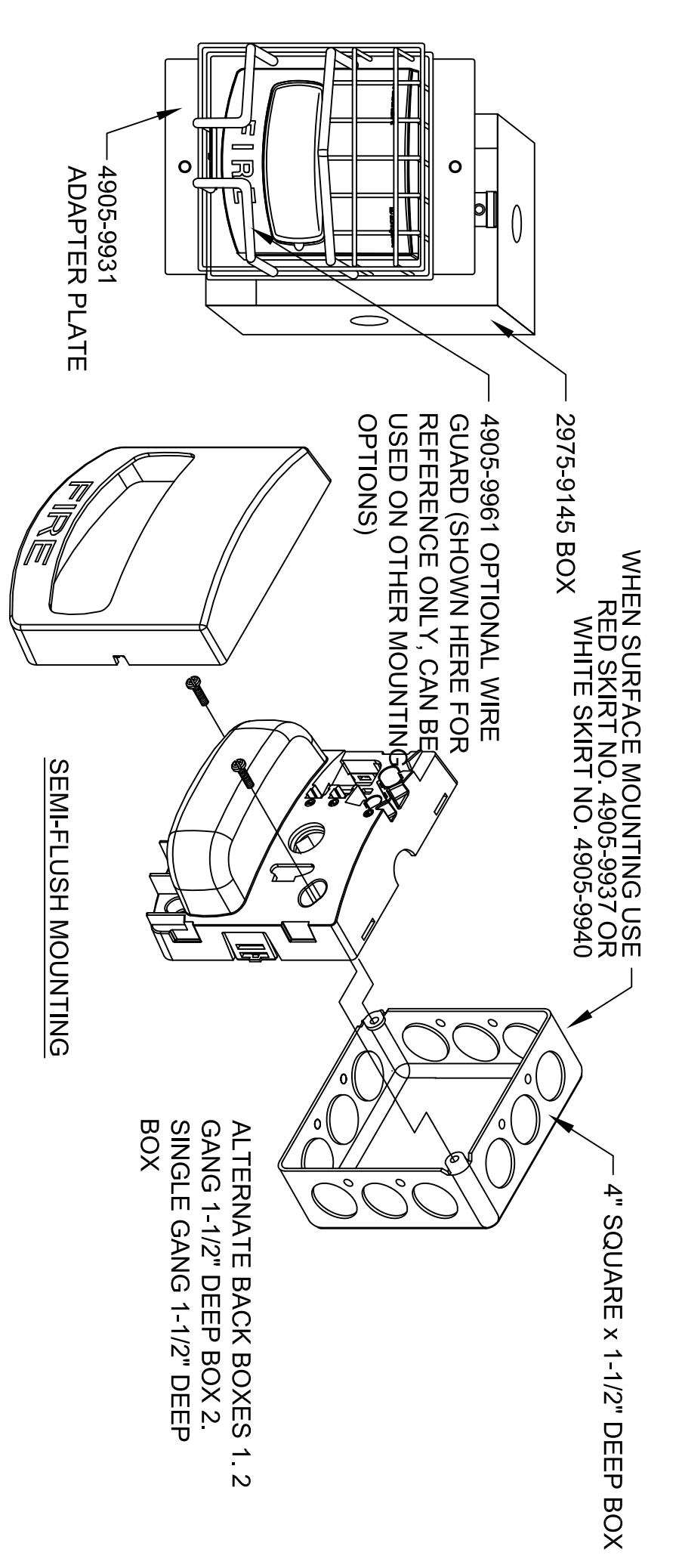
- A FOR GENERAL NOTES, FIRE ALARM CONVERSION METHODS AND PLASING, REFER TO DRAWING FA00.001.
- B FOR SYMBOLS AND ABBREVIATIONS, REFER TO DRAWING FA00.01.
- C THIS RISER DRAWING IS DIAGRAMMATIC AND FOR REFERENCE ONLY. THE NUMBER OF DEVICES SHOWN IN REPRESENTATION OF THE EXACT NUMBER OF DEVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING A COMPLETE RISER DIAGRAM AND REFLECT THE ACTUAL NUMBER OF DEVICES.

KEY PLAN

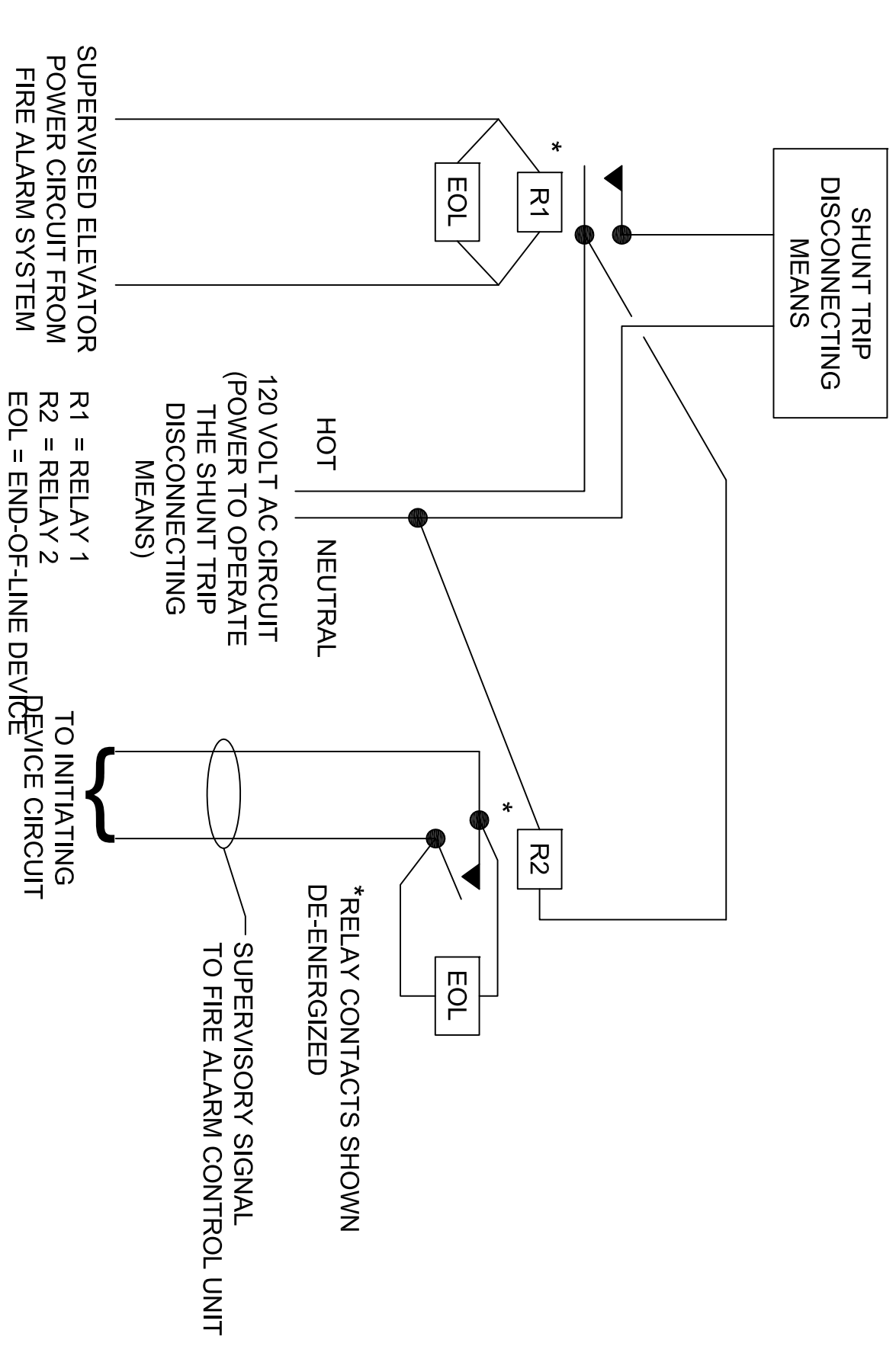
3 TYPICAL STROBE WIRING DIAGRAM DETAIL



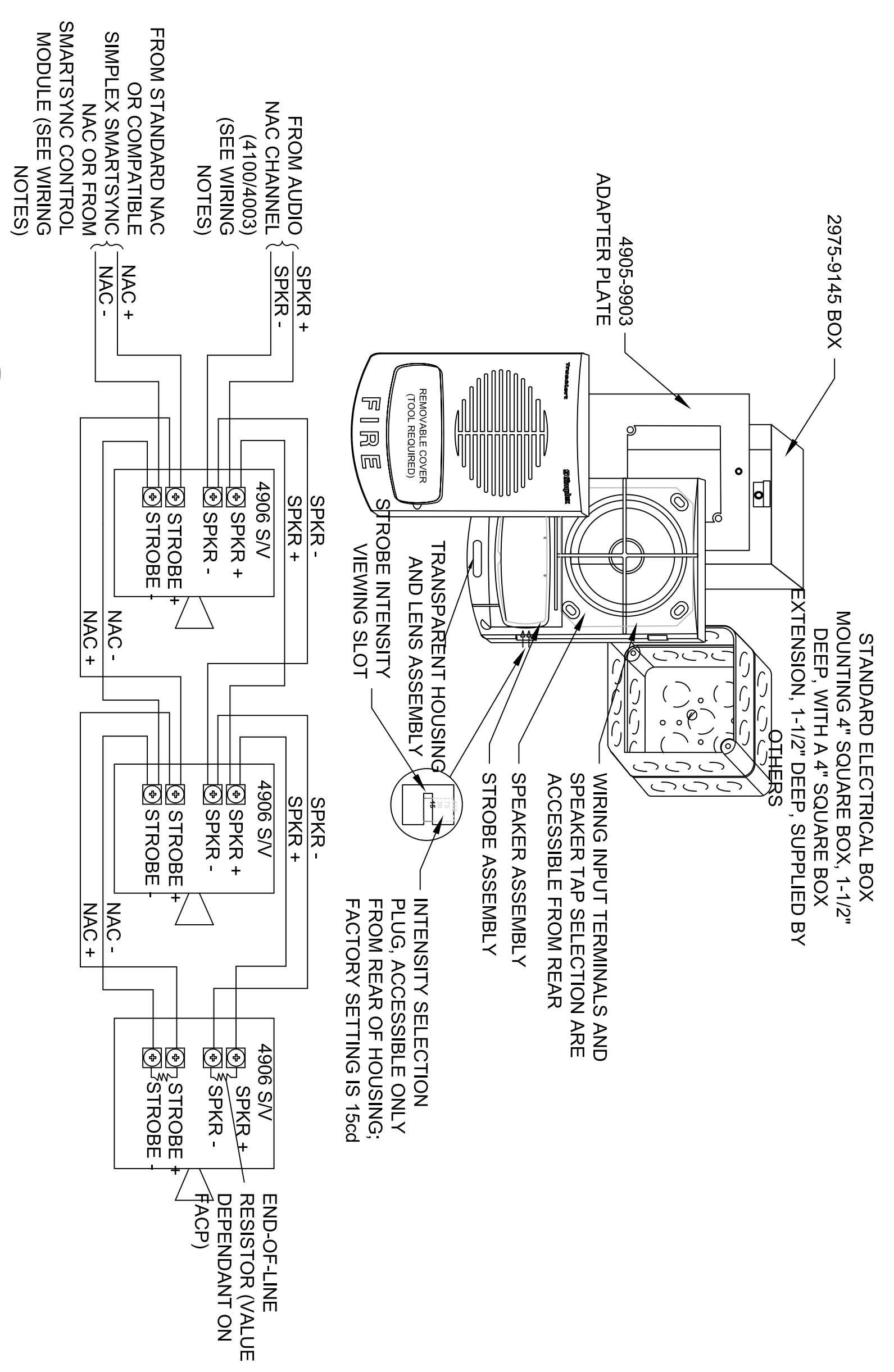
2 TYPICAL WALL MOUNT STROBE DETAIL



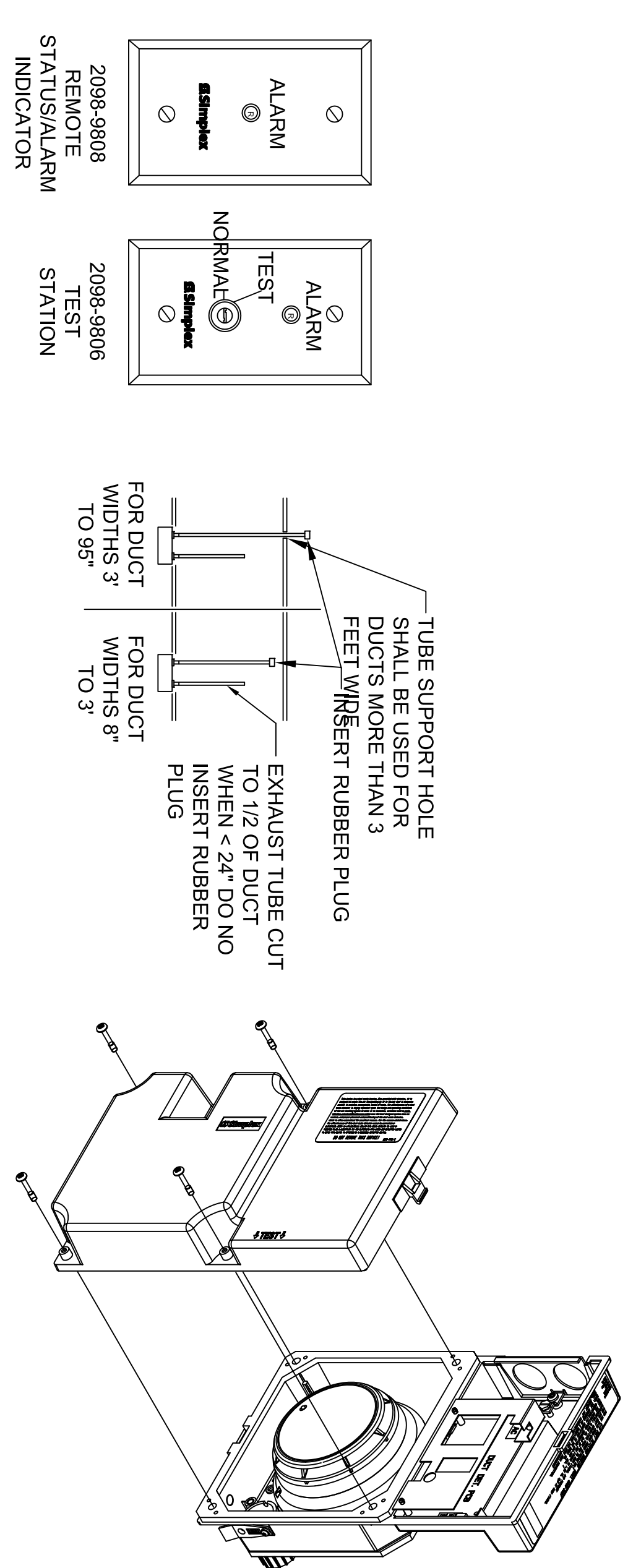
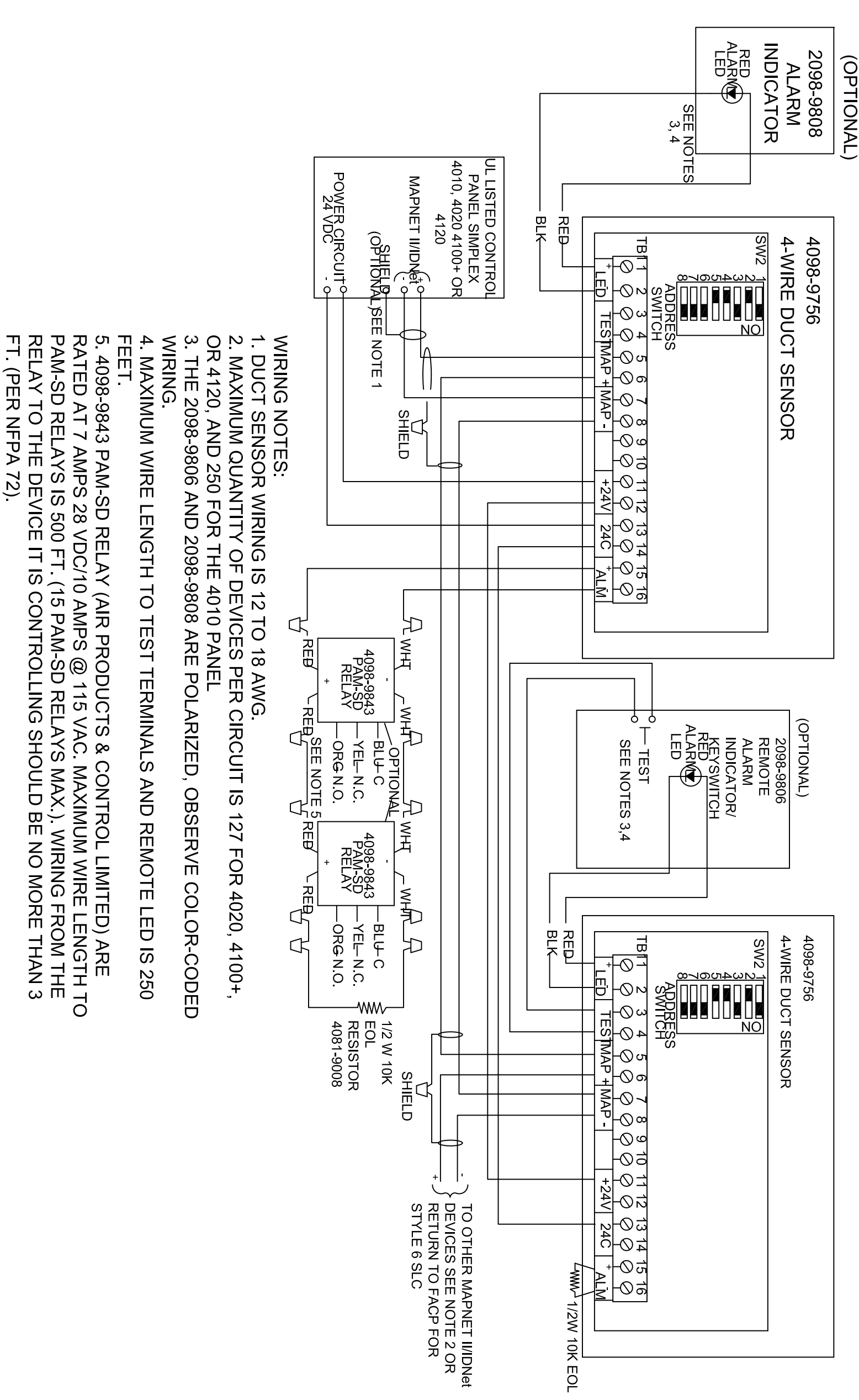
1 FIRE ALARM DETAIL



5 TYPICAL SPEAKER STROBE DETAIL



4 TYPICAL DUCT DETECTOR WIRING DETAIL



SHEET NOTES

- (1) DEMOLISH EXISTING DETECTORS, RETAIN EXISTING CIRCUIT AND MOUNTING BOX FOR NEW HEAT DETECTOR. REFER TO FA02.01.02
- (2) DEMOLISH EXISTING AUDIO VISUAL DEVICES, RETAIN EXISTING CIRCUIT AND MOUNTING BOXES FOR NEW FACILITY ROOF DEVICES. REFER TO FA03.11.02

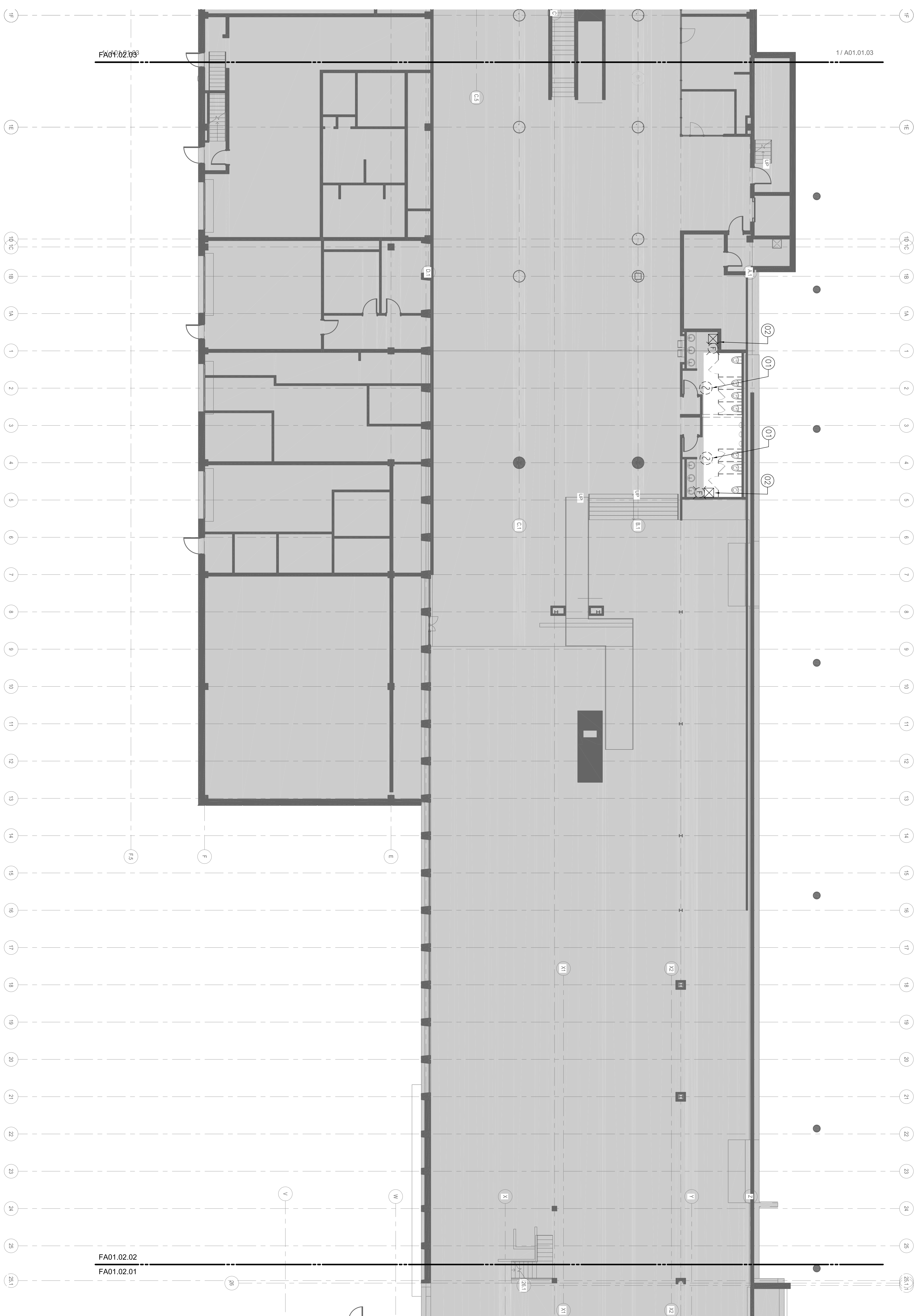
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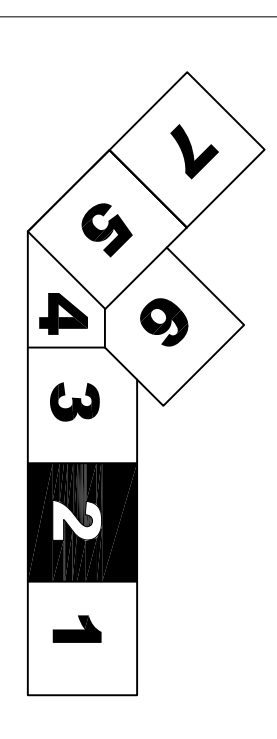


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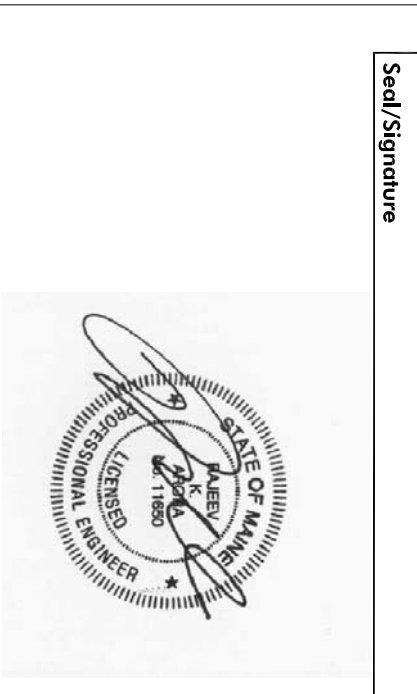


LEVEL 1 - ZONE 2
 SCALE: 1/8" = 1'-0"

KEY PLAN



Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA



Project Name: PAVILION TERMINAL EXPANSION
Project Number: SSO1.01.02
Lead Architect: Gensler
Architect: Gensler
Demolition: FIRE ALARM DEMOLITION PLAN - LEVEL 1 - ZONE 2
Scale: As Indicated

FA01.01.02
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SHEET NOTES

- (1) INSTALL NEW HEAT DETECTOR IN SAME LOCATION AS PREVIOUSLY DEMOLISHED DEVICE.
- (2) INSTALL NEW WEATHERPROOF AUDIO VISUAL DEVICES IN SAME LOCATIONS AS PREVIOUSLY DEMOLISHED DEVICES.

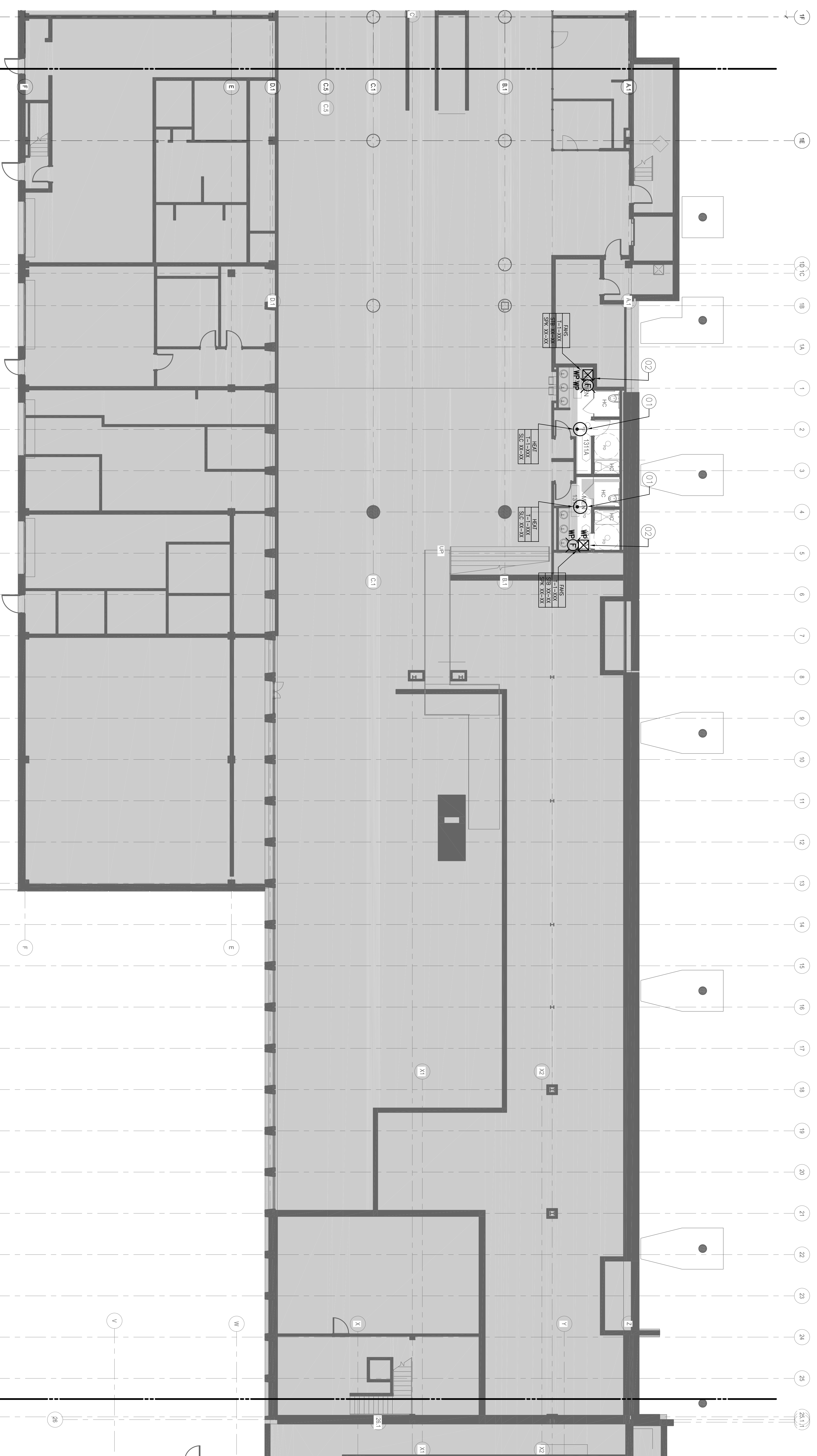
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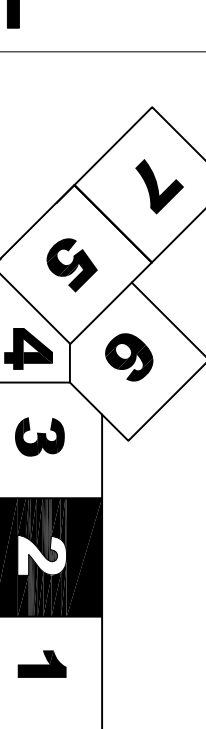
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SCALE: 1/8"=1'-0"

GENERAL NOTES

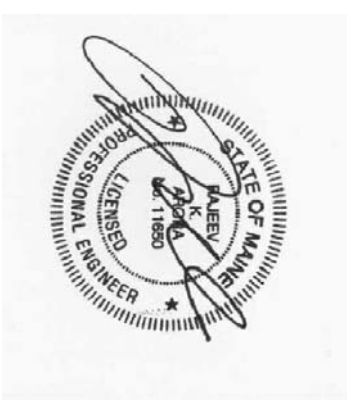
- A MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IBC 2003, NFPA 96A, IBC, NFPA 96B AND ALL APPLICABLE LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES SHALL BE INSTALLED IN THE SAME LOCATION AS PREVIOUSLY DEMOLISHED DEVICES. VISUAL NOTIFICATION DEVICES SHALL BE TAPPED AT THE WATTSAGE SELECTED BY THE SYSTEM MANUFACTURER ON THE APPROVED SHOP DRAWINGS.
- C IN THE EVENT THAT A DEVICE IS LOCATED ON A SURFACE THAT IS UNSUITABLE FOR MOUNTING, THE CONTRACTOR SHALL NOTIFY THE ENGINEER DURING THE SHOP DRAWINGS PHASE. THE NOTIFICATION TO THE ENGINEER SHALL OCCUR PRIOR TO CONDUIT AND JUNCTION BOX ROUGH-IN.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION. THIS SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.

KEY PLAN



Issue	Date & Issue Description	By	Checked
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA

Sd/Signature



Project Name
PWM TERMINAL EXPANSION

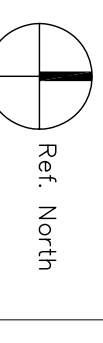
Project Number
F402.01.02

Contract Name
CONSTRUCTION PLAN

Description
LEVEL 1 - ZONE 2

Scale
As Indicated

FA02.01.02



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SHEET NOTES

- (01) CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND BE RESPONSIBLE FOR FINAL LOCATIONS AND QUANTITIES OF TAMPER SWITCHES.
- (02) COORDINATE LOCATION OF THESE DEVICES WITH ADJACENT PLUMBING PIPING.
- (03) THE WORK IN THIS AREA INVOLVES THE MODIFICATION TO THE EXISTING HORN STRIPES AND CONDUIT IN THIS AREA AND SHALL BE COMPLETED PRIOR TO THE START OF WORK FROM THE BAGGAGE MAKE-AREA WHICH IS BEING MODIFIED. THEN THE CONDUIT AND CABLING SHALL BE RE-ROUTED SUCH THAT THE BAGGAGE MAKE-UP AREA THROUGH THE CONTRACTOR SHALL IDENTIFY A PROPER CIRCUIT TIE-IN POINT IN THE EXISTING SYSTEM. THE CONTRACTOR SHALL REMOVE AND EXTEND NEW CONDUIT AND CABLE AS REQUIRED TO THE BAGGAGE MAKE-UP AREA.

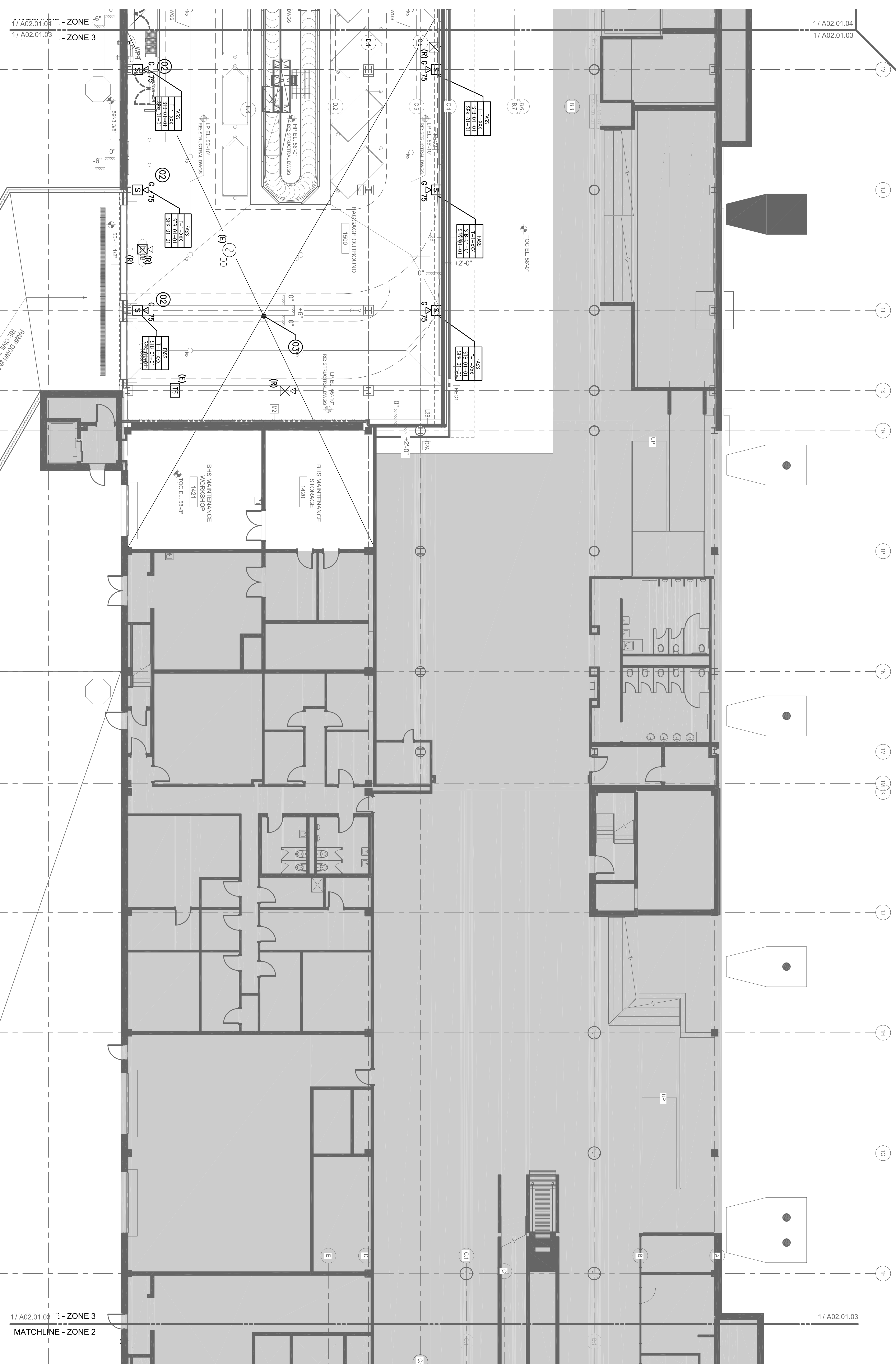
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ARORA
Architectural Record
Structural Engineers

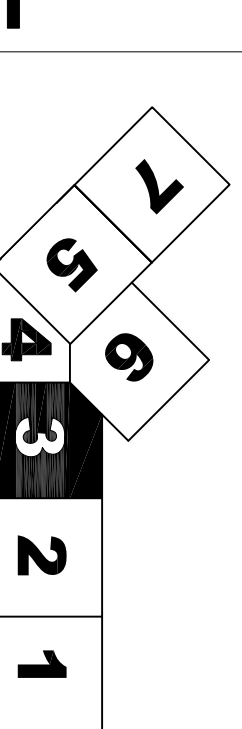
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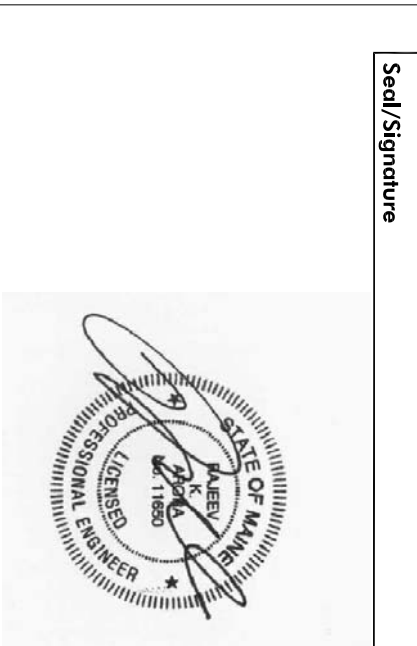
GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IEC 60317 PART 90A, I.M.C. AND ALL APPLICABLE NATIONAL AND LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES ASSIGNED ON THE DRAWINGS, SPEAKERS SHALL BE TAPPED AT THE WATTAGE SELECTED BY THE SYSTEM MANUFACTURER ON THE APPROVED SHOP DRAWINGS.
- C IN THE EVENT THAT A DEVICE IS LOCATED ON A SURFACE THAT IS UNSUITABLE FOR THE NOTIFICATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER DURING THE SHOP DRAWINGS PHASE. THE NOTIFICATION TO THE ENGINEER SHALL OCCUR PRIOR TO CONDUIT AND JUNCTION BOX ROUGH-IN.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION. THIS SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.
- E ALL NOTIFICATION DEVICES SHOWN ON THIS PLAN SHALL BE EQUIPPED WITH PROTECTIVE WIRE GUARD.
- F CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF THE FIRE ALARM DEVICES SHOWN ON THIS SHEET. DEMOLITION SHALL BE COMPLETED PRIOR TO THE START OF REPAIR AND CONSTRUCTION OF THE BAGGAGE MAKE-UP AREA. BACK TO THE SOURCE, MAINTAINING CIRCUIT CONTINUITY AND ANY AND ALL SOFTWARE/PROGRAM CHANGES REQUIRED FOR THE BAGGAGE MAKE-UP AREA. ALL SYSTEM WIRE AND UT SERVICES WILL NOT ACCEPTABLE. CIRCUIT MODIFICATIONS SHALL BE BY TERMINAL STRIP ONLY.

KEY PLAN



Issue	Date & Issue Description	By	Checked
145	09/01/11	SJB	RJA
ISSUED FOR CONSTRUCTION			



Project Name
PWM TERMINAL EXPANSION

Lead Designer
Robert J. Anderson

Contract No.
F/A02.01.03

Description
CONSTRUCTION PLAN

Level
LEVEL 1 - ZONE 3

Scale
As Indicated

FA02.01.03

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LEVEL 1 - ZONE 3
SCALE: 1/8"=1'-0"

SHEET NOTES

- (10) NEW MODULE SHALL BE INSTALLED CLOSE TO DOOR INTERFACE PANEL (DIP). INITIATION OF THE FIRE ALARM SYSTEM WILL RELEASE THE DOOR IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS SHOWN ON FA12.02. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO DETERMINE FINAL QUANTITIES AND USE THE NECESSARY 280DC CIRCUITING AND SLC CIRCUITING TO THE MODULE. REFER TO S52.01.05 AND FA12.01.
- (12) COORDINATE LOCATION OF THESE DEVICES WITH ADJACENT PLUMBING PIPING.
- (13) THE WORK IN THIS AREA INVOLVES THE MODIFICATION TO THE EXISTING HORN STROBES AND CIRCUITS IN THIS AREA. IN THE EVENT THAT THE NAC CIRCUIT IS ROUTED FROM THE BAGGAGE HOLDERS, THEN THE CONDUIT AND CABLING SHALL BE RE-ROUTED SUCH THAT THE CIRCUIT DOES NOT PASS THROUGH THE BAGGAGE HOLDERS. THE CONTRACTOR SHALL IDENTIFY AND LABEL THE EXISTING CONDUIT AND CABLING TO THE LOCATION AND PERFORM ANY/ALL DEMOLITION AND REPAIRS IN THE BAGGAGE WAREHOUSE AREA.

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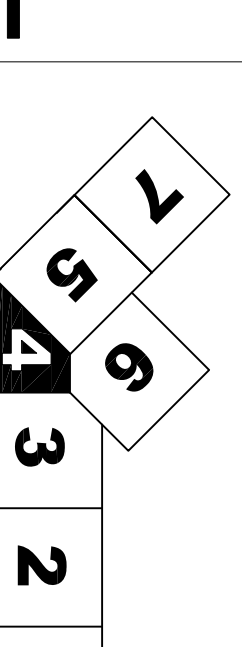
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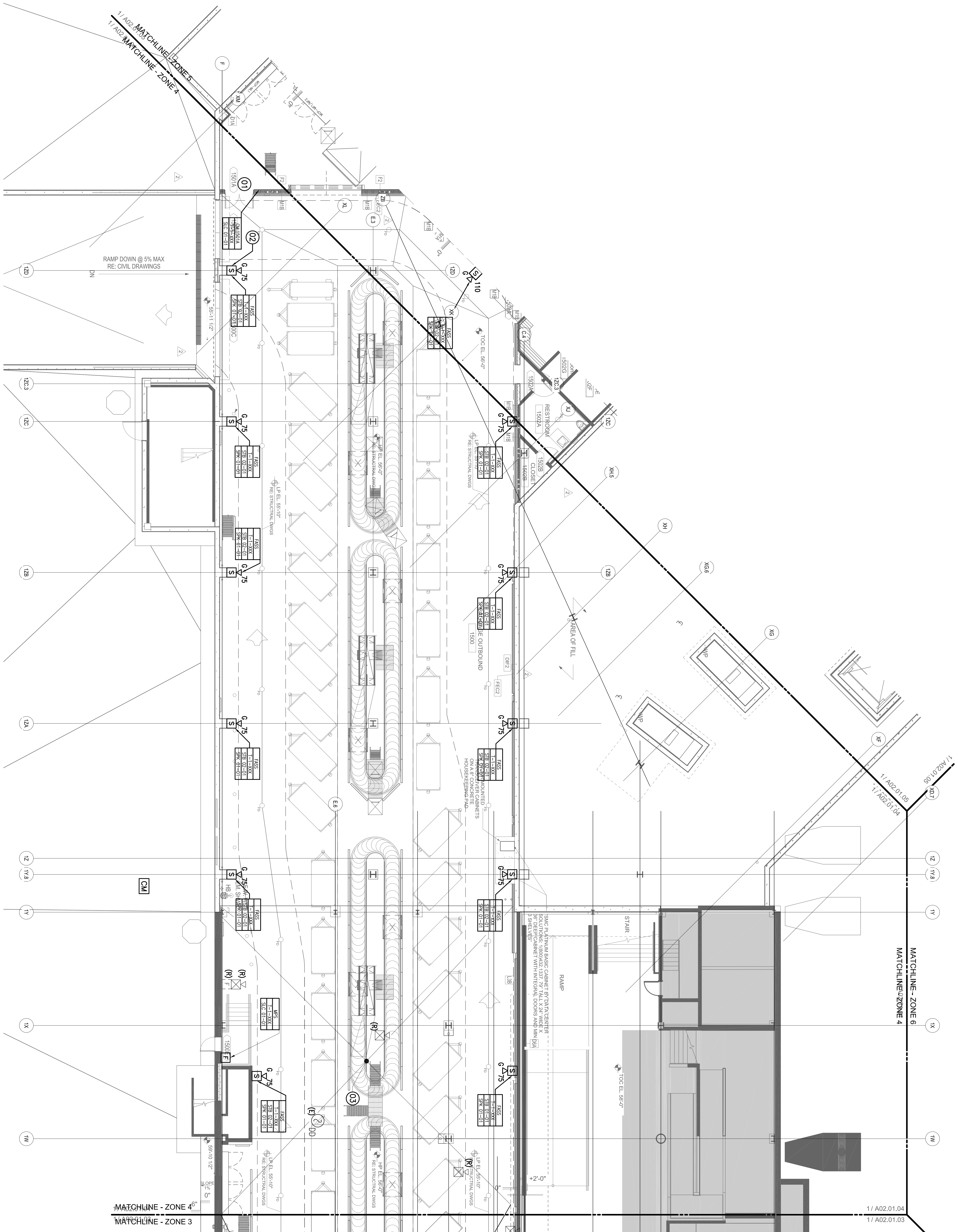
GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL CONFORM WITH NFPA 72001, NFPA 96A, NFPA 72, LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES ASSIGNED ON THE DRAWINGS. RATING SPEAKERS SHALL BE TAPPED AT THE WATTAGE SELECTED BY THE SYSTEM MANUFACTURER ON THE APPROVED SHOP DRAWINGS.
- C IN THE EVENT THAT A DEVICE IS LOCATED ON A SURFACE THAT IS UNSUITABLE FOR CONCRETE OR SIMILAR, THE CONTRACTOR SHALL VERIFY THE LOCATION WITH THE ENGINEER DURING THE SHOP DRAWINGS PHASE. THE NOTIFICATION TO CONDUIT AND JUNCTION BOX ROUGH-IN MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION. THIS SHALL INCLUDE SYNCHRONIZATION OF SYSTEMS OPERATED BY SEPARATE CONTRACTORS.
- D ALL NOTIFICATION DEVICES SHOWN ON THIS PLAN SHALL BE EQUIPPED WITH PROTECTIVE WHITE GUARD.
- E CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF THE FIRE ALARM DEVICES CONSIST OF RISER OF DEVICES, REMOVAL OF CABLING AND CONDUIT BACK TO THE SOURCE, MAINTAINING CIRCUIT CONTINUITY AND ANY AND ALL REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. WIRE NUT SPLICES WILL NOT ACCEPTABLE. CIRCUIT MODIFICATIONS SHALL BE BY TERMINAL STRIP ONLY.

KEY PLAN



FA02.01.04
 FIRE ALARM CONSTRUCTION PLAN - LEVEL 1 - ZONE 4
 As Indicated



LEVEL 1 - ZONE 4
 SCALE: 1/8"=1'-0"

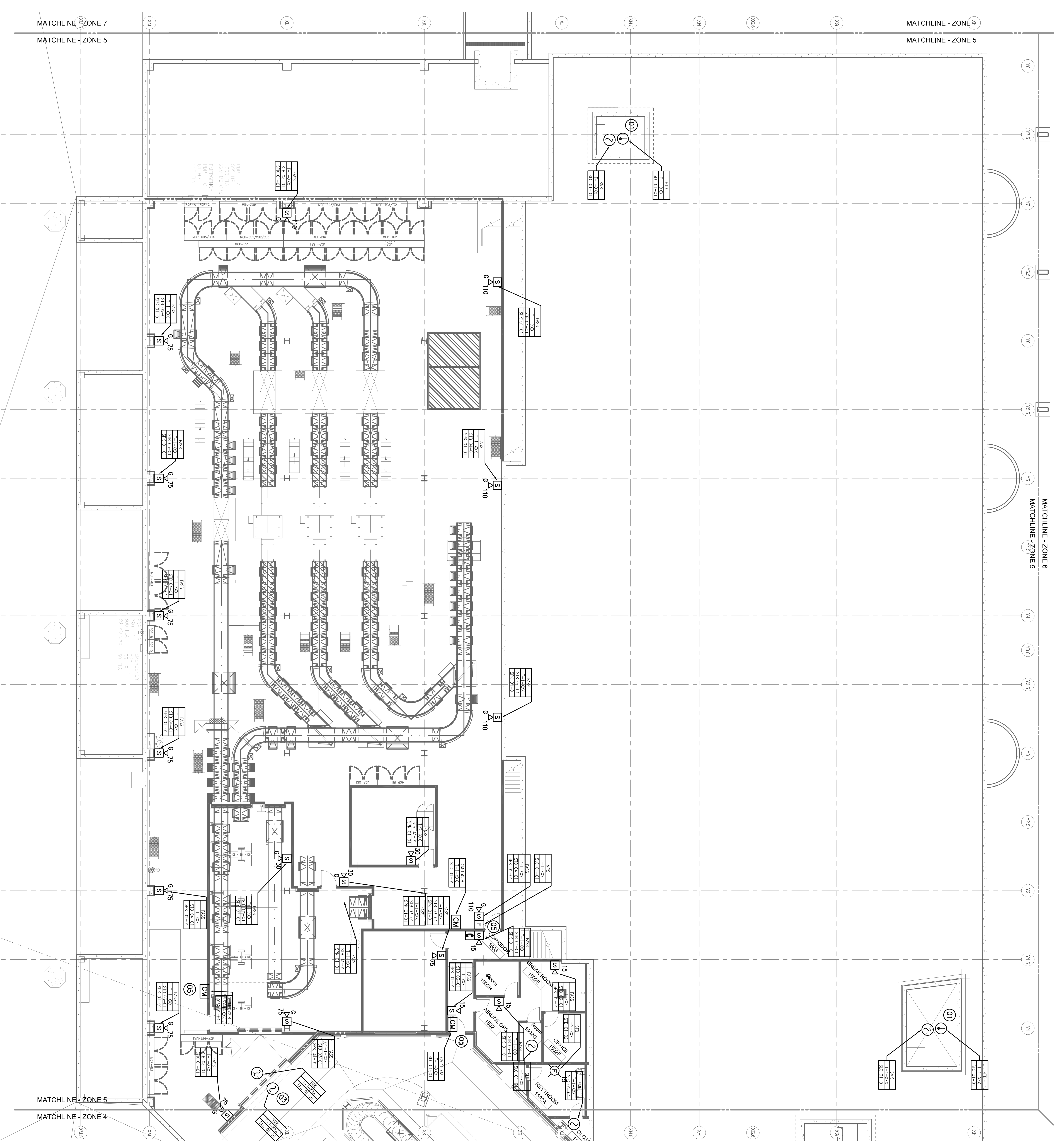
SHEET NOTES

- 01 INSTALL HEAT DETECTOR AT THE BOTTOM OF THE ELEVATOR PIT WITHIN TWO FEET OF THE SPRINKLER AS SHOWN IN THE PLAN. PROVIDE DETECTORS IF REQUIRED. FINAL QUANTITIES AND LOCATION SHALL BE COORDINATED WITH THE FIRE PROTECTION CONTRACTOR.
- 02 CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND BE RESPONSIBLE FOR FINAL LOCATIONS AND QUANTITIES OF MODULES MONITORING FLOW AND TAMPER SWITCHES.
- 03 NEW SMOKE DETECTORS TO BE MOUNTED ON BOTH SIDES OF THE FIRE DOOR AS PART DETECTION SHALL BE WITHIN FIVE FEET OF THE DOORS AND SHALL BE MOUNTED IN ACCORDANCE WITH NFPA 72.
- 04 PROVIDE MONITOR MODULE AND CONTROL MODULE AS SHOWN IN THE PLAN. INITIATION OF THE SMOKE DETECTORS SHALL CAUSE THE CONTROL MODULE LOCATED AT THE SHUT THE PASSAGE HANDLING DOOR. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO DETERMINE FINAL LOCATIONS AND PROVIDE THE NECESSARY 24VDC CIRCUITING AND SLC CIRCUITING TO THE MODULE AND DETECTOR. REFER TO B2.01.05.
- 05 INSTALL CONTROL MODULE AS SHOWN IN THE PLAN AND INTERFACE WITH THE DOOR FIRE ALARM SYSTEM WILL RELEASE THE DOOR IN ACCORDANCE WITH THE DOOR INTERFACE MATRIX SHOWN ON FA2.02. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO DETERMINE THE WITH QUANTITIES AND LOCATIONS OF MODULES AND PROVIDE THE NECESSARY 24VDC CIRCUITING AND SLC CIRCUITING TO THE MODULE. REFER TO S2.01.05 AND FA2.01.

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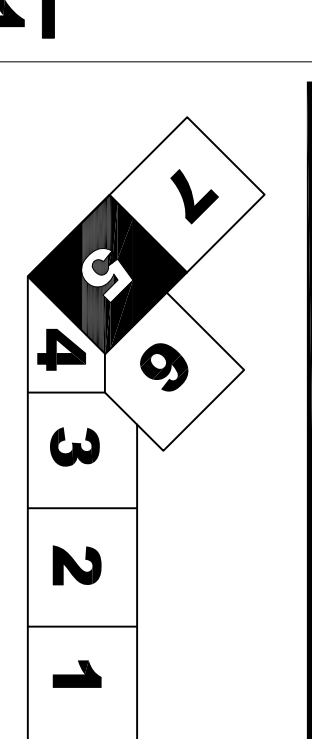
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GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL CONFORM WITH BR-2003 NFPA 96A LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES SHALL BE ASSIGNED ON THE DRAWINGS. SPEAKERS SHALL BE TAPPED AT THE WATTAGE SELECTED BY THE SYSTEM SHOP DRAWINGS.
- C IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL RESTRICTIONS, NOTIFICATION APPLIANCES MAY BE ABLE TO BE MOVED TO CEILING MOUNT DEVICES UPON APPROVAL. DEVICES SHALL BE UL LISTED FOR CEILING MOUNTED APPLICATIONS.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE SAME HEAD OF VIEW SHALL REMAIN IN THE SAME ROOM. VISUAL NOTIFICATION SHALL BE OPERATED BY SEPARATE SYSTEMS.
- E NOTIFICATION DEVICES SHOWN WITH 'G' SHALL BE EQUIPPED WITH PROTECTIVE WIRE GUARD. SEE FA0.00 FOR SYMBOLS.

KEY PLAN



LEVEL 1 - ZONE 5
 SCALE: 1/8"=1'-0"

FA02.01.05
 3/2004 Gensler

Legend

Project Name: **PJM TERMINAL EXPANSION**

Legend Number: **FA02.01.05**

Description: **FIRE ALARM CONSTRUCTION PLAN - LEVEL 1 - ZONE 5**

Scale: **As Indicated**

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RAA



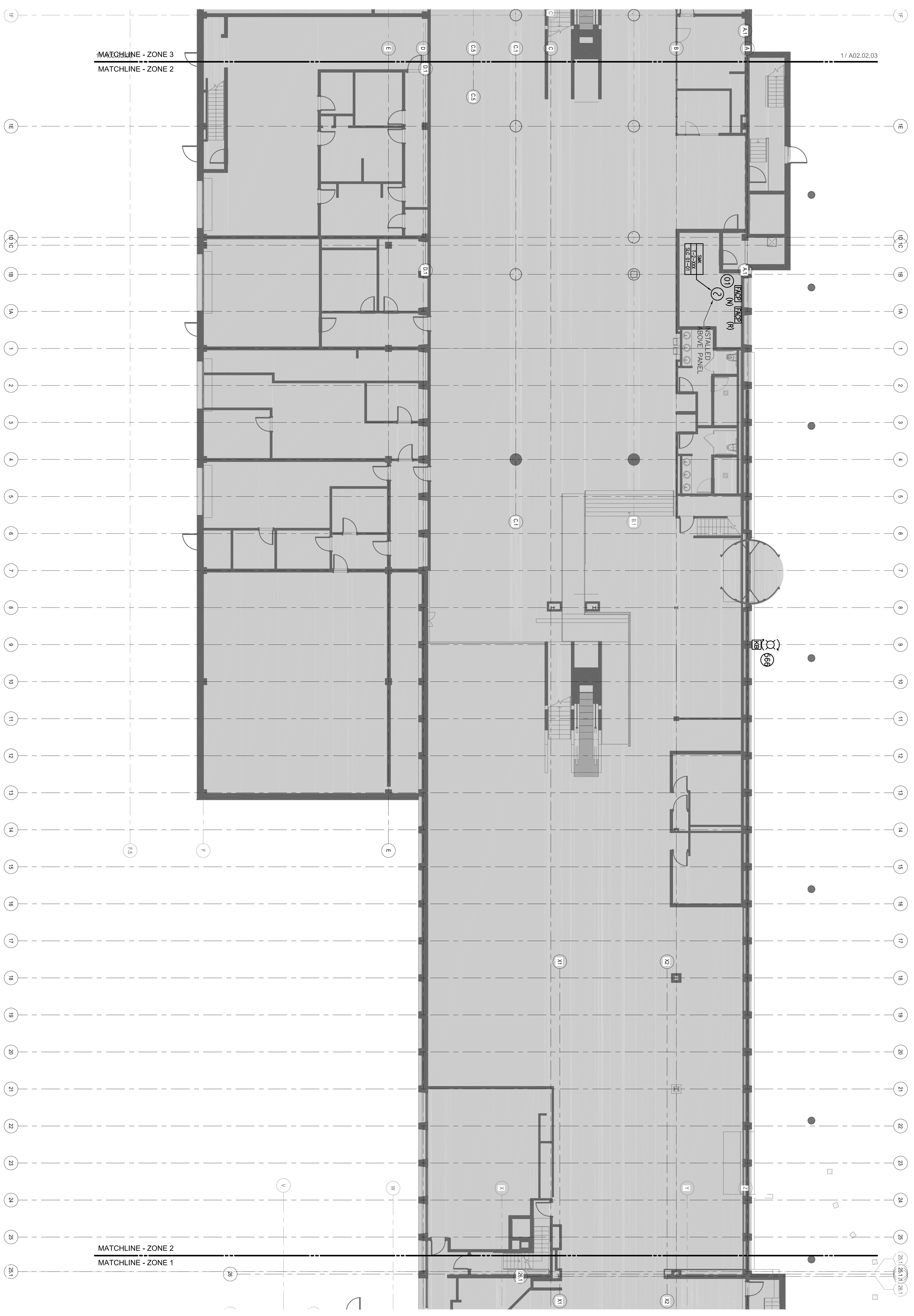
SHEET NOTES

- (1) EXISTING SAMPLE EXGNWELL 4020 FIRE ALARM PANEL SHALL BE RETROFITTED WITH A NEW SAMPLE EXGNWELL 4100U TYPE. CONTRACTOR SHALL VERIFY THE EXISTING PANEL LOCATION AND THE LOCATION OF THE NEW 4100U TYPE PANEL. SEE FA02.00 FOR FIRE ALARM PANEL CONVERSION METHODS.

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GENERAL NOTES

- A. MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IBC/2003 NFPA 96A/NFPA 72. NOT ALL DEVICES ARE IDENTIFIED BY LOCAL CODES.
- B. VISUAL NOTIFICATION APPLIANCE SHALL BE INSTALLED IN THE SAME ROOM OR ADJACENT SPACE AS THE SPEAKERS. SPEAKERS SHALL BE TAPPED AT THE WATTAGE SELECTED BY THE SYSTEM SHOP DRAWINGS.
- C. IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ANY RESTRICTIONS. NOTIFICATION APPLIANCE MAY BE ABLE TO BE MOVED TO CEILING MOUNT DEVICES IF APPROVED BY THE SYSTEM SHOP DRAWINGS. LISTED FOR CEILING MOUNTED APPLICATIONS.
- D. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCE OR GROUPS OF VISIBLE NOTIFICATION APPLIANCE IN THE SAME ROOM OR ADJACENT SPACE SHALL BE INSTALLED. VISUAL NOTIFICATION SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SB8	RKA

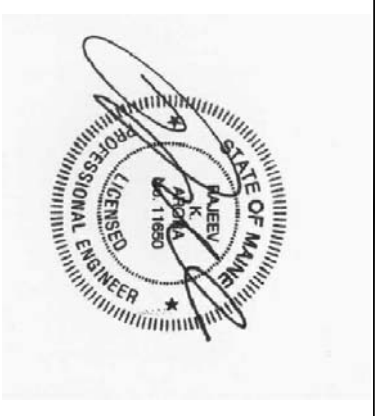
Project Name
PWM TERMINAL EXPANSION

Project Number
FA02.02.02

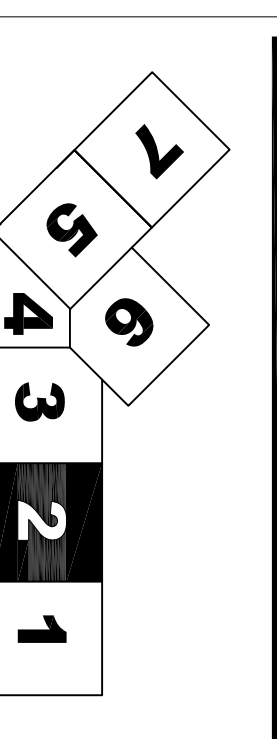
Contract Name
FIRE ALARM

Description
LEVEL 2 - ZONE 2

Scale
As Indicated



KEY PLAN



FA02.02.02

LEVEL 2 - ZONE 2

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

SHEET NOTES

- (1) EXISTING SIMPL EXGRINELL 4020 FIRE ALARM PANEL SHALL BE RETROFITTED WITH A NEW SIMPL EXGRINELL 4100U VERIFI-COMM FOR VISIBILE FOR EXISTING PANEL AND THE FINAL LOCATIONS OF THE NEW 4100U TYPE PANEL. SEE FA02.03 FOR FIRE ALARM PANEL CONVERSION METHODS.
- (2) ADD ALTERNATE - CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND BE RESPONSIBLE FOR FINAL LOCATIONS AND RESPONSIBILITIES FOR THE INSTALLATION OF FLOW AND TAMPER SWITCHES.

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GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL COMPLY WITH BEC 2003, NFPA 90A, NFPA 72, NEC, ADXNG AND ALL APPLICABLE LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES SHALL BE SET TO THE CANDLE RATING ASSIGNED ON THE MANUFACTURER'S LISTING. VISUAL NOTIFICATION APPLIANCES SHALL BE AT THE VANTAGE SELECTED BY THE SYSTEM MANUFACTURER ON THE APPROVED SHOP DRAWINGS.
- C IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, DUE TO PHYSICAL RESTRICTIONS, NOTIFICATION APPLIANCES MAY BE ABLE TO BE PROVIDED BY CEILING MOUNT DECK APPROVAL. DEVICES SHALL BE UL LISTED FOR CEILING MOUNTED APPLICATIONS.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE SAME FIELD OF VIEW SHALL FLASH IN THE SAME PATTERN AND BE SYNCHRONIZED WITH THE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA

Sd/Signatures

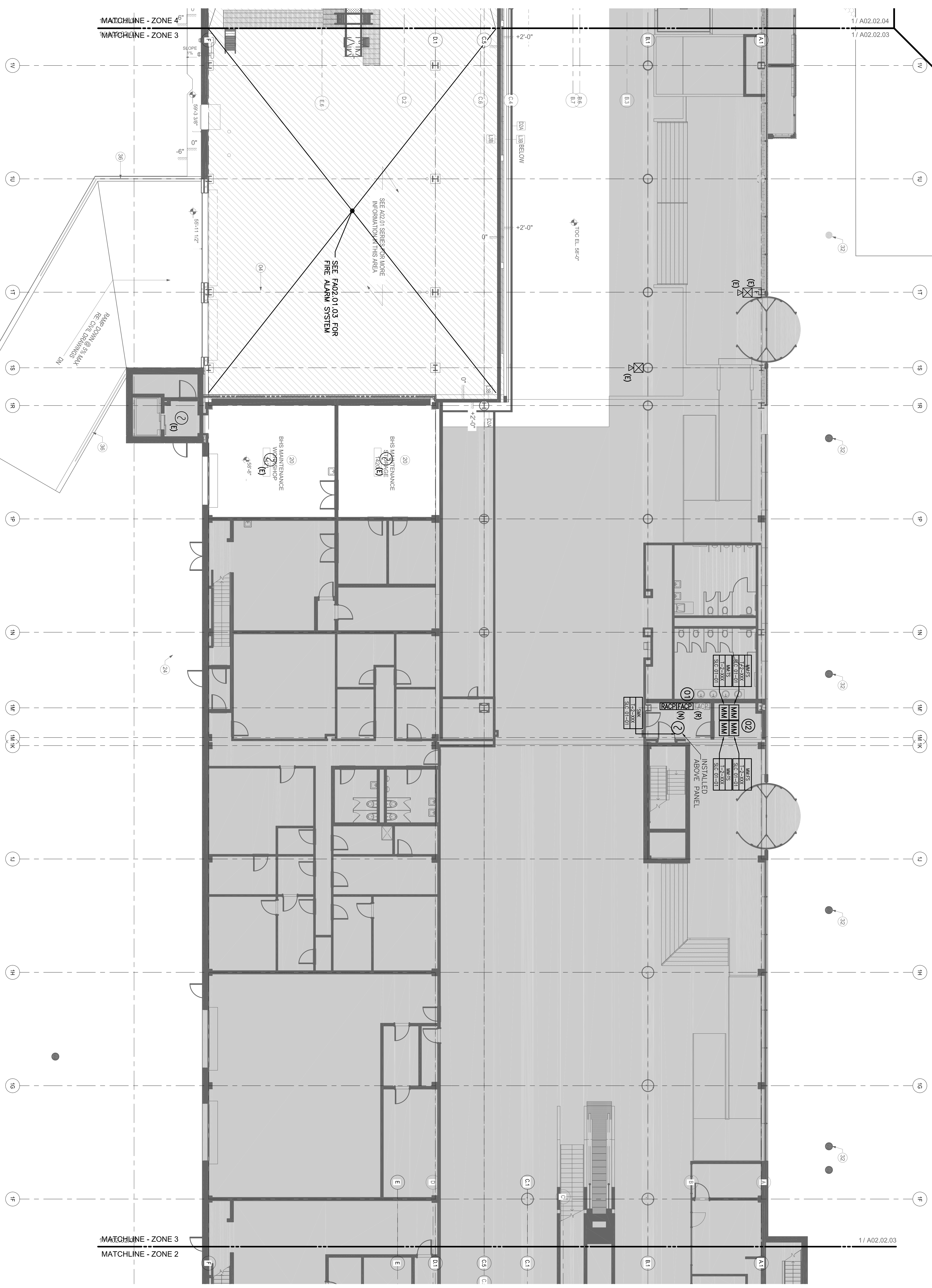
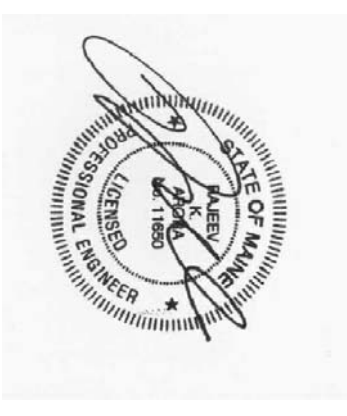
Project Name
PJM TERMINAL EXPANSION

Project Number
FA02.02.03

CAD File Name
CONSTRUCTION PLAN - LEVEL 2 - ZONE 3

Description
FIRE ALARM

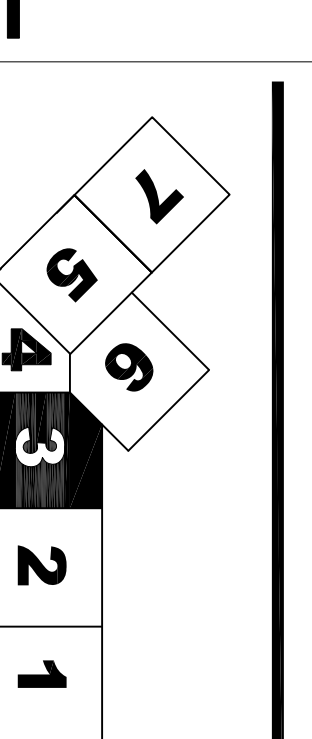
Title
As Indicated



LEVEL 2 - ZONE 3

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

KEY PLAN

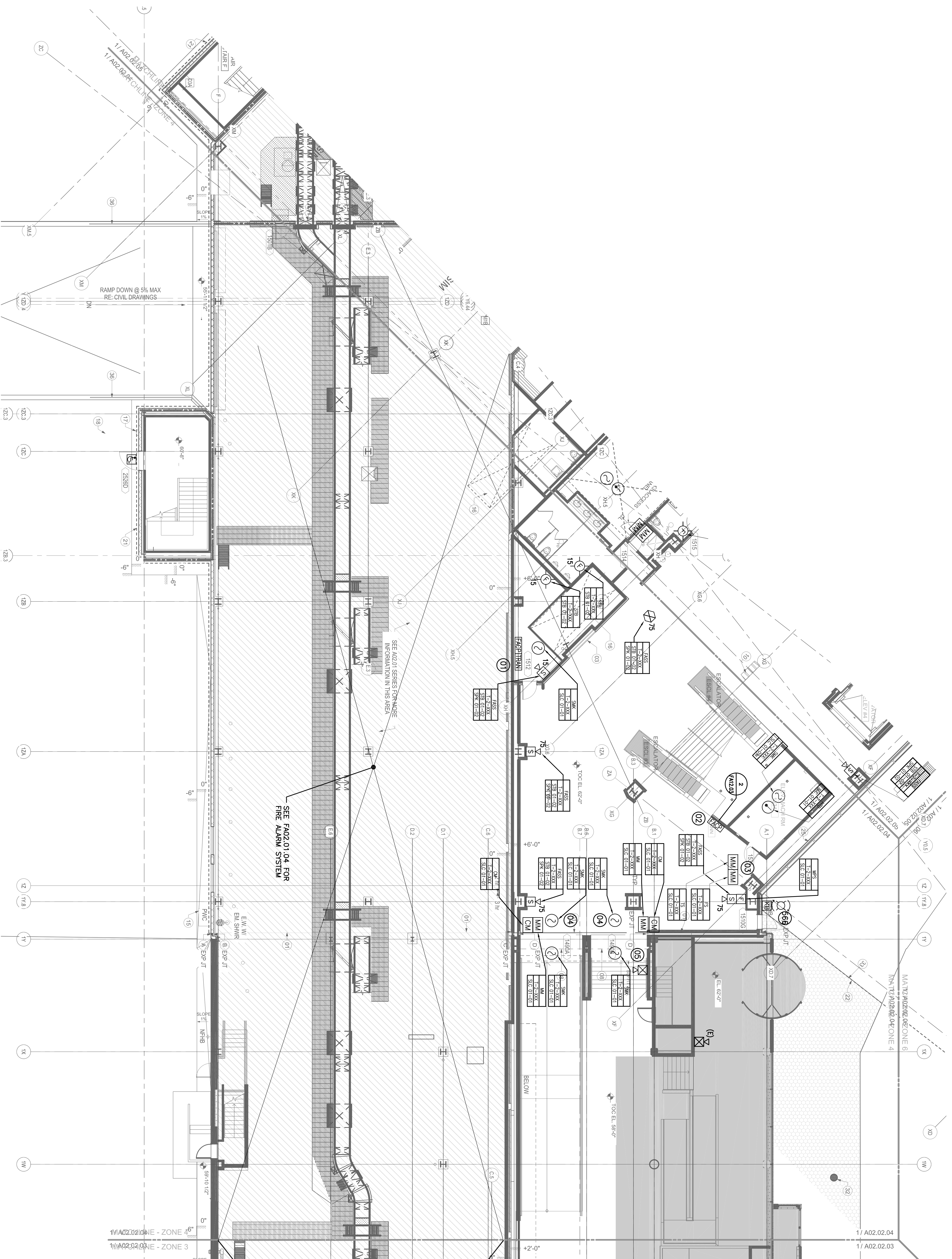


FA02.02.03

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SHEET NOTES

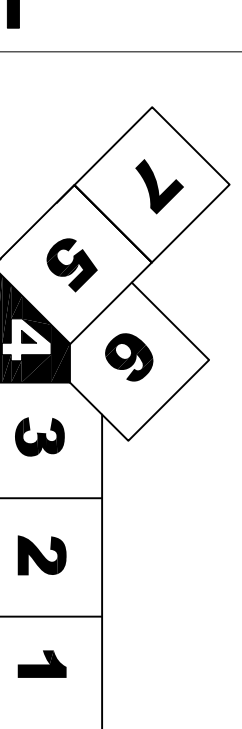
- 01 CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TRANSDUCER CABINET ASSOCIATED WITH NEW SIMPLIFIED 4000 FIRE ALARM SYSTEM. THE TRANSDUCER CABINET WITH BPS SHALL BE COORDINATED WITH OTHER TRADES. SEE FA12.00 FOR POWER SUPPLY DETAIL.
- 02 A NEW ANNUNCIATOR PANEL SHALL BE INSTALLED AS SHOWN ON THIS PLAN. FINAL LOCATION SHALL BE APPROVED PER FA12.00 FOR ANNUNCIATOR DETAIL.
- 03 INSTALL MONITOR MODULES AS SHOWN ON THIS PLAN. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ANY INSTALLATION WORK.
- 04 NEW SMOKE DETECTORS TO BE MOUNTED ON BOTH SIDES OF THE FIRE SHUTTER. DETECTION SHALL BE WITHIN FIVE FEET OF THE DOORS AND SHALL BE MOUNTED IN ACCORDANCE WITH NFPA 72. THE DETECTOR SHALL CAUSE THE CONTROL MODULE LOCATED ADJACENT TO THE DFP PANEL TO INITIATE THE SYSTEMS FIRE MODE. COORDINATE THE DETECTOR LOCATIONS TO DETERMINE FINAL QUANTITIES AND LOCATION OF MODULES AND PROVIDE THE NECESSARY 24VDC CIRCUITING AND DETECTION TO THE MODULE AND DETECTOR.
- 05 INSTALL FIRE ALARM HORN/STROBE AND EXTEND CHORD FROM THE EXISTING CHORD TO THE DETECTOR. THE PLAN CONTRACTOR SHALL PROVIDE SUFFICIENT COVERAGE AND PROVIDE ADDITIONAL DEVICES FOR NOTIFICATION OTHER TRADES PRIOR TO INSTALLATION.



GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL COMPLY WITH BFC 2003, NFPA 90A, NFPA 72, NEC, AND ALL APPLICABLE LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES SHALL BE SET TO THE CANDLEA RATING ASSIGNED ON TAPPED AT THE SPECIFIC VANTAGE SELECTED BY THE SYSTEM MANUFACTURER ON THE APPROVED SHOP DRAWINGS.
- C IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, DUE TO PHYSICAL RESTRICTIONS, NOTIFICATION APPLIANCES WILL BE INSTALLED AS APPROVED BY THE ENGINEER. UPON APPROVAL, DEVICES SHALL BE UL LISTED FOR CEILING MOUNTED APPLICATIONS.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE SAME ZONE SHALL BE INSTALLED TO ENSURE SYNCHRONIZATION. THIS SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.

KEY PLAN



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Title	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RA



Project Name
PJM TERMINAL EXPANSION

Contract Number
FA02.02.04

Description
FIRE ALARM CONSTRUCTION PLAN - LEVEL 2 - ZONE 4

Scale
As Indicated

FA02.02.04

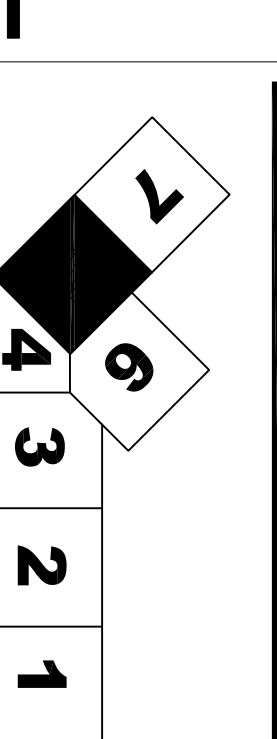
SHEET NOTES

- 01 INSTALL HEAT DETECTOR AT THE BOTTOM OF THE ELEVATOR PIT WITHIN TWO FEET OF THE SPRINKLER AS SHOWN IN THE PLAN. PROVIDE AND QUANTITIES OF FINAL DETECTOR SHALL BE COORDINATED WITH THE FIRE PROTECTION CONTRACTOR.
- 02 CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND BE RESPONSIBLE FOR FINAL LOCATION AND QUANTITIES OF MODULES MARKING FLOW AND TANKER SWIRLS.
- 03 NEW SMOKE DETECTORS TO BE MOUNTED ON BOTH SIDES OF THE FIRE HANDLING SYSTEM. DETECTION SHALL BE WITHIN FIVE FEET OF THE DOORS AND SHALL BE MOUNTED IN ACCORDANCE WITH NFPA 72.
- INITIATION OF THE DETECTORS SHALL CAUSE THE CONTROL MODULE LOCATED AT THE BAGGAGE FIRE DOOR IN THE HANDLING DOOR AFTER A DELAY OF 60 SECONDS. COORDINATE WITH OTHER TRADES TO DETERMINE FINAL QUANTITIES AND LOCATION OF NECESSARY ZAVDC CIRCUITING AND SLC DETECTOR.
- 04 INSTALL ELEVATOR RECALL SMOKE DETECTOR AT THE CEILING WHEREVER APPLICABLE. OTHERWISE INSTALL ON THE WALL ABOVE THE ELEVATOR DOOR HANDLING SHOP DRAWINGS. COORDINATE FINAL LOCATION WITH THE ARCHITECT AND OTHER TRADES.

GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IBC 2003, NFPA 90A, NFPA 72, NEC, ADAAG AND ALL APPLICABLE LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES SHALL BE SET TO THE CANDELA RATING ASSIGNED ON THE DRAWINGS. SPEAKERS SHALL BE TAPPED AT THE WATTAGE SELECTED BY THE SYSTEM DRAWINGS.
- C IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, NOTIFICATION APPLIANCES MAY BE ABLE TO BE MOVED TO CEILING MOUNT DEVICES UPON APPROVAL BY THE ENGINEER UPON CEILING NOTED APPLICABLE TRADES.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE APPLIANCES SHALL BE PROVIDED IN EACH ROOM OR ADJACENT SPACE WITHIN THE SAME FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION. THIS SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.

KEY PLAN



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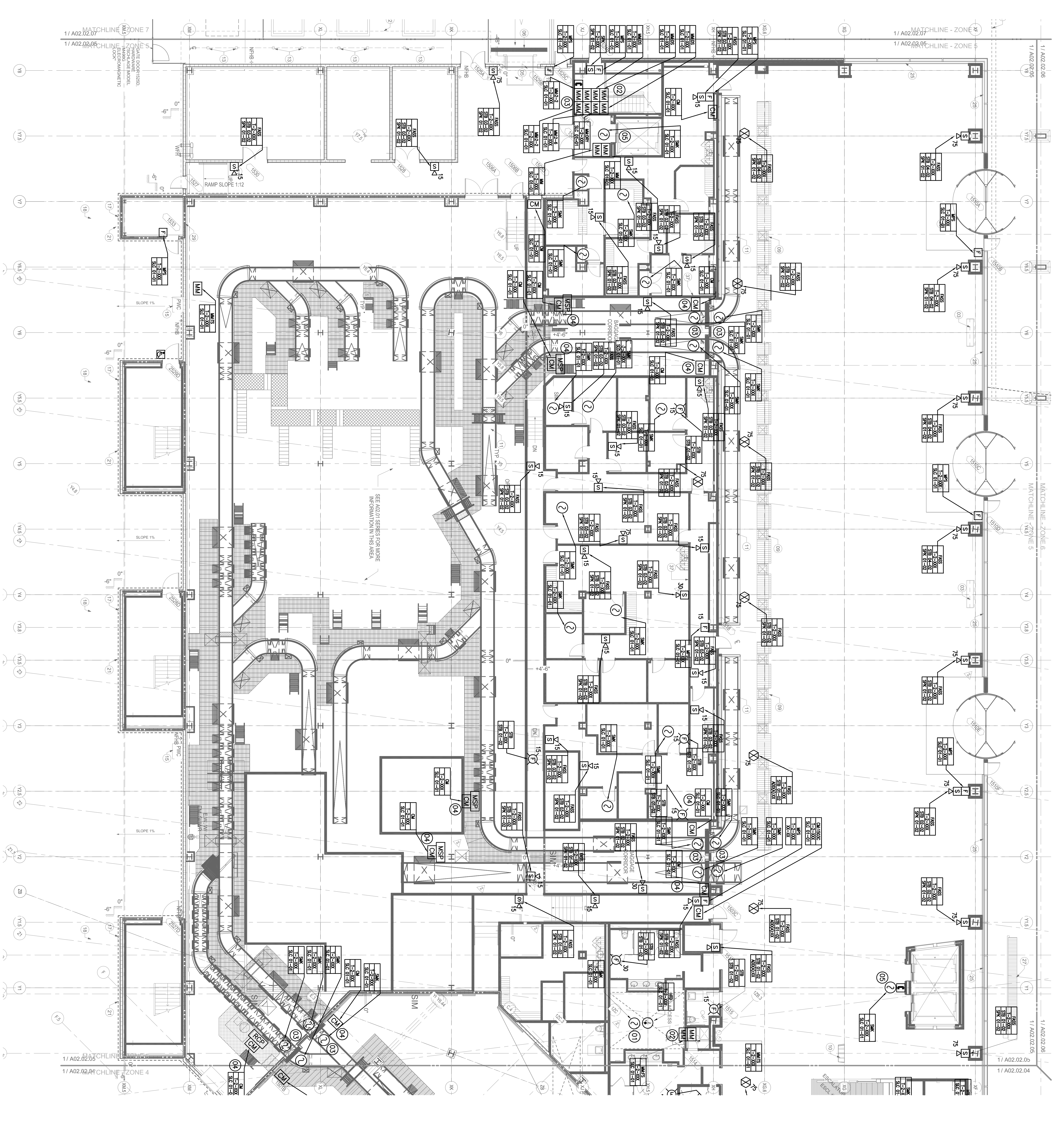
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<p>Project Name: PJM TERMINAL EXPANSION</p> <p>Lead: F.A02.02.05</p> <p>Discipline: FIRE ALARM</p> <p>Construction Plan - LEVEL 2 - ZONE 5</p>	<p>Issue: 145 Date & Issue Description: 09/01/11 By: SJB RJA</p> <p>155001 FOR CONSTRUCTION</p>
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FA02.02.05



LEVEL 2 - ZONE 5

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

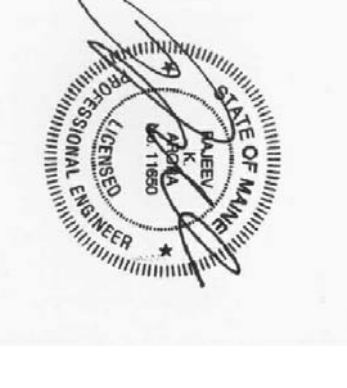
SHEET NOTES

- (10) INSTALL MONITOR MODULE AT THE VALVE INSIDE A MENA BOX - RAIN RIGID GALVANIZED STEEL CONDUIT AND OUTDOOR RATED CABLE UNDERGROUND COORDINATE WITH FIRE PROTECTION AND CIVIL SHOP DRAWINGS PRIOR TO INSTALLATION.

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Project Name
PJM TERMINAL EXPANSION

Project Number

CAD file Name
 FA02.02.06

Description
FIRE ALARM CONSTRUCTION PLAN - LEVEL 2 - ZONE 6

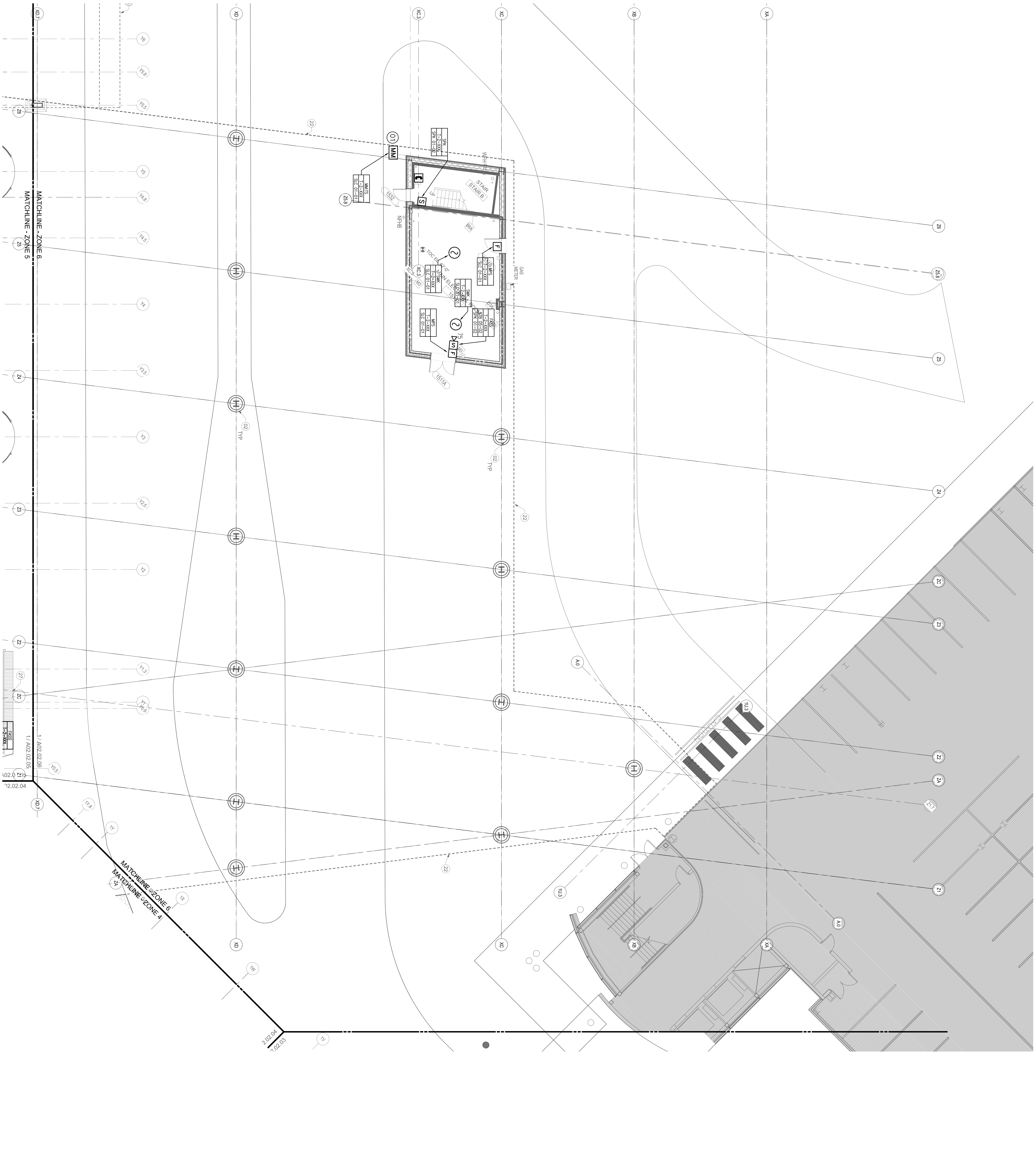
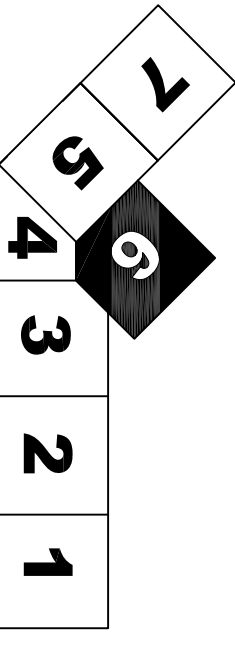
Scale
 As Indicated

Date & Issue Description	By	Check
145 09/01/11	SIB	RAK
ISSUED FOR CONSTRUCTION		

GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IBC 2003, NFPA 96A, NFPA 70E AND ALL APPLICABLE LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES ASSIGNED ON THE DRAWINGS SPEAKERS SHALL BE TAPPED AT THE WATTAGE SELECTED BY THE SYSTEM MANUFACTURER ON THE APPROVED SHOP DRAWINGS.
- C IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, PHYSICAL RESTRICTIONS, PHYSICAL APPLIANCES MAY BE ABLE TO BE MOVED TO CEILING MOUNT DEVICES UPON APPROVAL BY THE ENGINEER. ALL DEVICES TO BE MOVED MUST BE LISTED FOR CEILING MOUNTED APPLICATIONS.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR MORE THAN ONE NOTIFICATION APPLIANCE IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE SAME FIELD OF VIEW. THIS SHALL INCLUDE CHRONIZATION, SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.
- E ALL WIRE AND CABLE SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) AT ALL LOCATIONS INDOORS AND RIGID METAL CONDUIT OUTDOORS. THE MINIMUM CONDUIT SIZE SHALL BE 3/4"

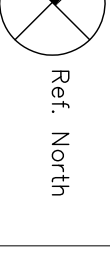
KEY PLAN



LEVEL 2 - ZONE 6

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

FA02.02.06



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SHEET NOTES

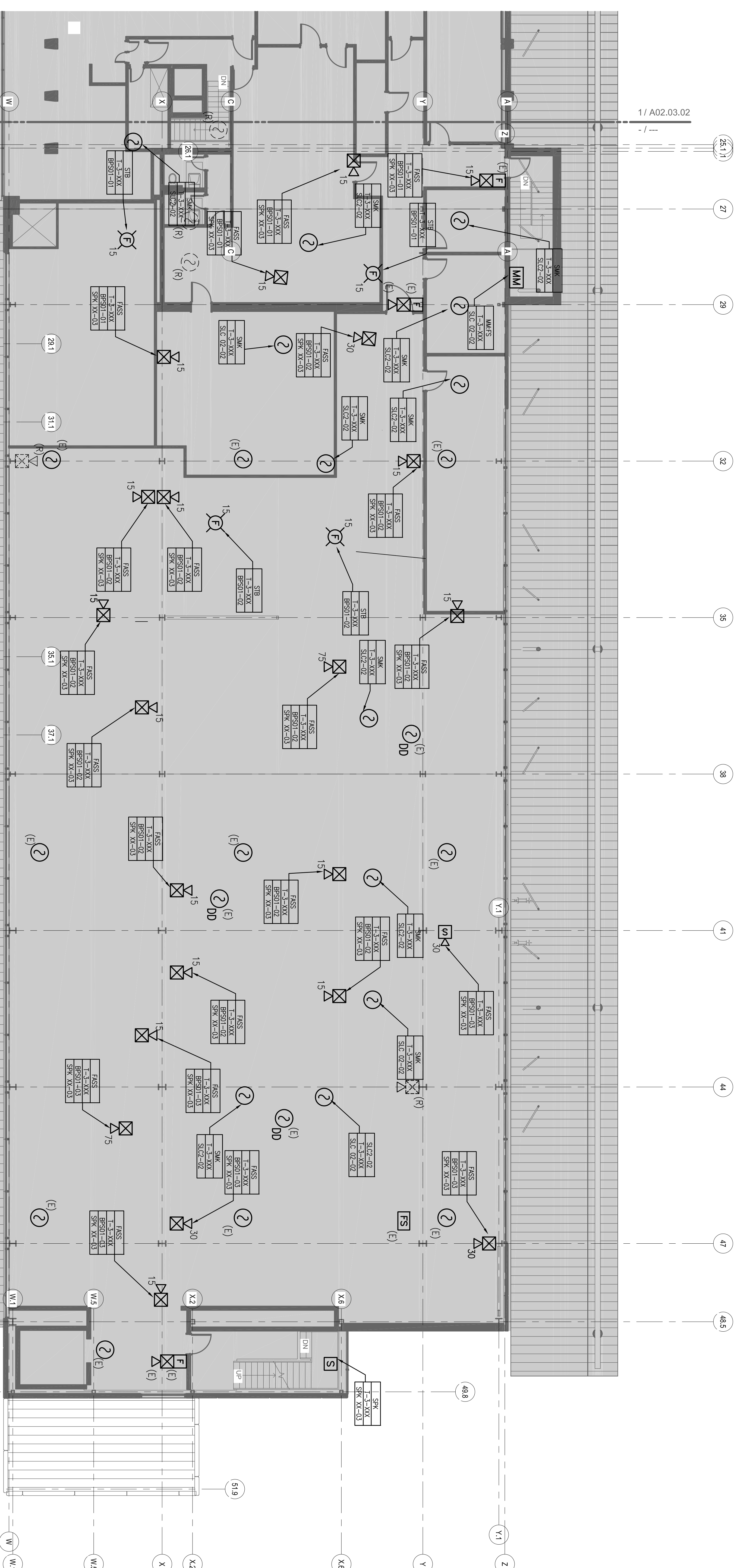
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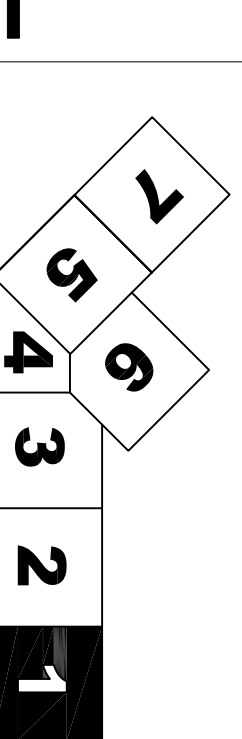
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GENERAL NOTES

- A. MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IBC 2003, NFPA 70, NFPA 70B, AND ALL APPLICABLE LOCAL CODES.
- B. VISUAL NOTIFICATION APPLIANCES SHALL BE LOCATED AS SHOWN. SPEAKERS SHALL BE TAPPED AT THE MANUFACTURER ON THE APPROVED SHOP DRAWINGS.
- C. IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, PHYSICAL APPLIANCES MAY BE ABLE TO BE MOVED TO CEILING MOUNT DEVICES UPON APPROVAL BY THE ENGINEER. ALL APPLIANCES SHALL BE LISTED FOR CEILING MOUNTED APPLICATIONS.
- D. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OF ANY TYPE SHALL BE INSTALLED IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE SAME FIELD OF VIEW. THIS SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.
- E. ALL WIRE AND CABLE SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) AT ALL LOCATIONS INDOORS AND RIGID METAL CONDUIT OUTDOORS. THE MINIMUM CONDUIT SIZE SHALL BE 3/4".

KEY PLAN



Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA

Project Name
PWV TERMINAL EXPANSION

Project Number
CAD File Name
Description

Scale
As Indicated



FA02.03.01

LEVEL 3 - ZONE 1

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

SHEET NOTES

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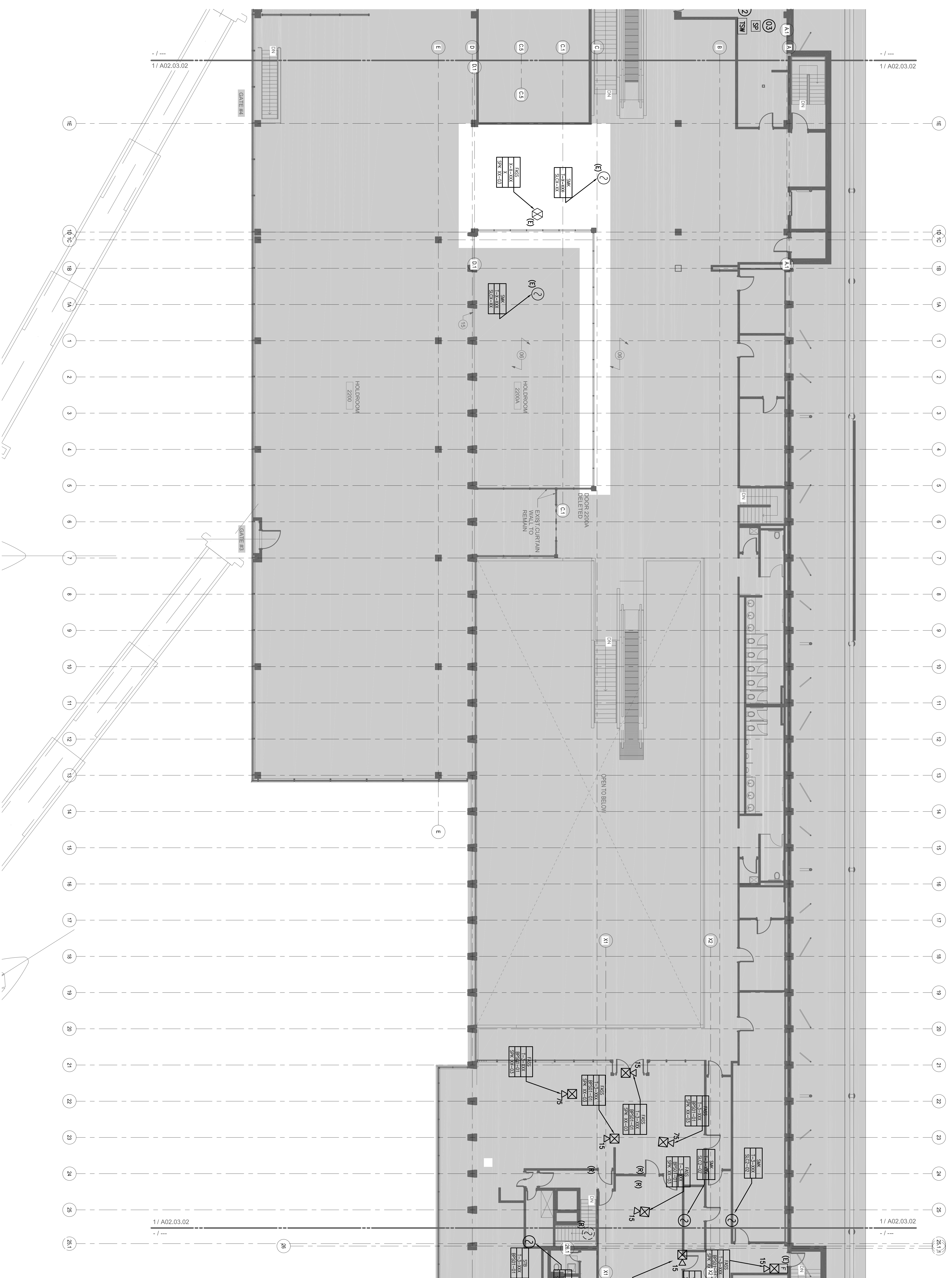
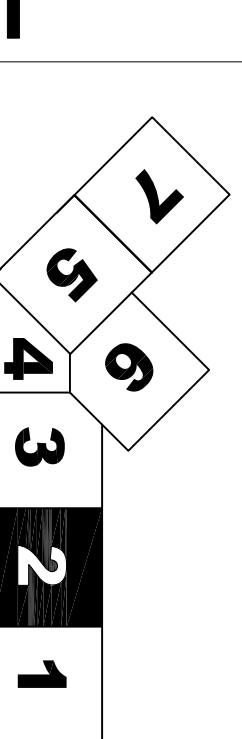


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GENERAL NOTES

- A. MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IBC 2003, NFPA 90A, NFPA72, NEC, ADA/AG AND ALL APPLICABLE LOCAL CODES.
- B. VISUAL NOTIFICATION APPLIANCES SHALL BE SET TO THE CANDLER RATING ASSIGNED ON THE DRAWINGS. AT THE MANUFACTURER'S OPTION, THE SWITCHING VOLTAGE SELECTED BY THE SYSTEM MANUFACTURER ON THE APPROVED SHOP DRAWINGS.
- C. IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, DUE TO PHYSICAL RESTRICTIONS, NOTIFICATION APPLIANCES SHALL BE MOVED TO CEILING MOUNT DEVICES UPON APPROVAL BY THE ENGINEER. VISUAL NOTIFICATION DEVICES SHALL BE UL LISTED AND CEILING MOUNTED APPLICATIONS.
- D. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES SHALL NOT BE LOCATED IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE SAME FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION. THIS SHALL INCLUDE APPLICATIONS TO THE FINAL CONDUITABLE ROUTE TO THE APPLICABLE AREA OF PROTECTION.
- E. BOOSTER POWER SUPPLY (BPS) SHALL BE PROVIDED TO ALL NOTIFICATION DEVICES LOCATED IN LEVEL 3, ZONE 1 AND PORTIONS OF LEVEL 3, ZONE 2. THE BPS CONTRACTOR SHALL DETERMINE ADEQUATE POWER SUPPLY CAPACITY BASED ON THE FINAL CONDUITABLE ROUTE TO THE APPLICABLE AREA OF PROTECTION.
- F. EXISTING FIRE ALARM DEVICES SHALL REMAIN.
- G. CONTRACTOR SHALL PROTECT DEVICES FROM CONSTRUCTION, DIRT, DUST AND DEBRIS DURING THE WORK PHASE.
- H. AT THE CONCLUSION OF THE WORK PHASE THE CONTRACTOR SHALL TEST THE DEVICES TO ENSURE PROPER OPERATION.

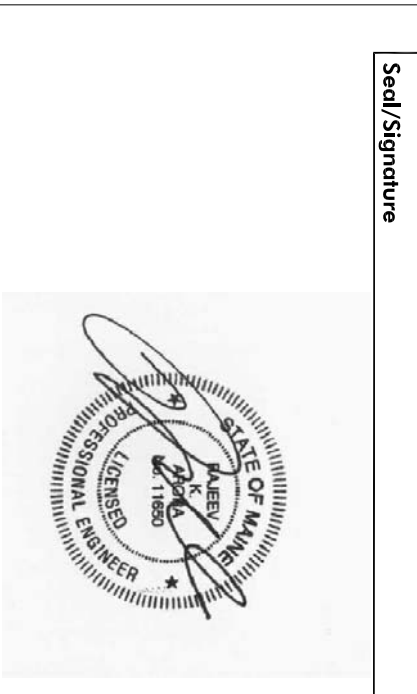
KEY PLAN



LEVEL 3 - ZONE 2

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

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SIB	RAK



Project Name
PWM TERMINAL EXPANSION

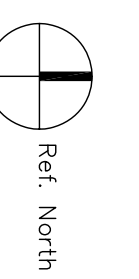
Project Number
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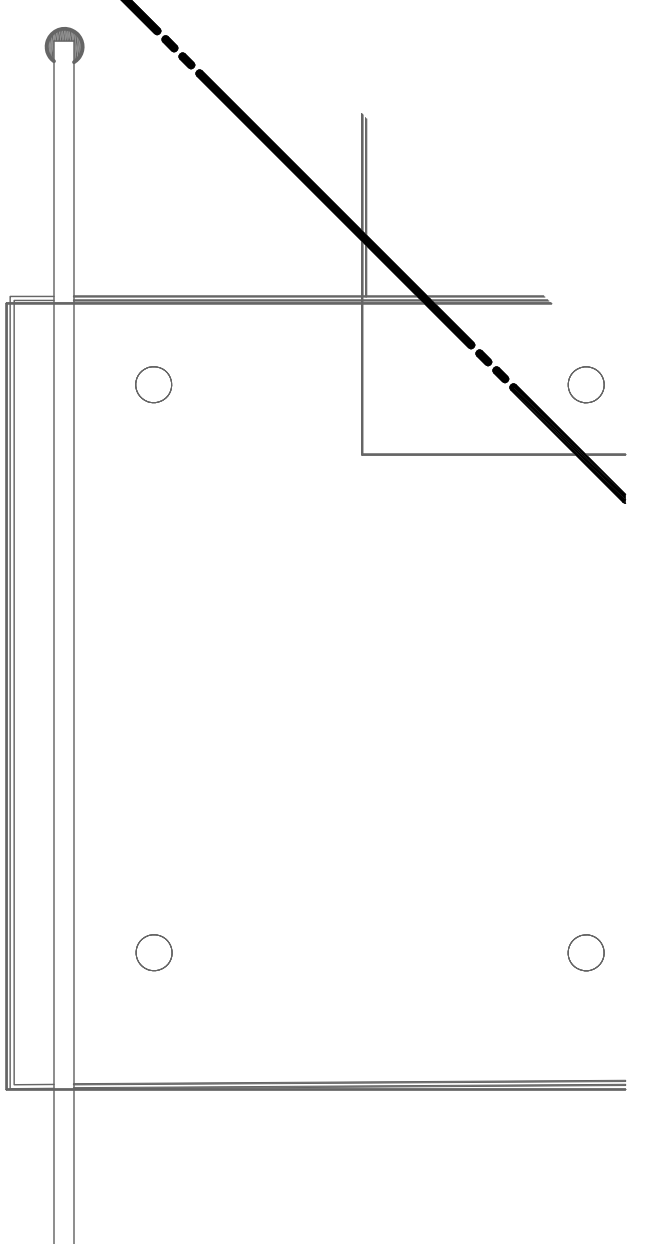
Description

Scale
As Indicated

FA02.03.02

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SHEET NOTES

- (1) ADD ALTERNATE - INSTALL MONITOR MODULES AS SHOWN IN THE PLAN. COORDINATE WITH THE FIRE PROTECTION CONTRACTOR ABOUT THE LOCATION OF THE MONITOR MODULES PRIOR TO INSTALLATION.
- (2) INSTALL TRUE SIGHT WORKSTATION COMMUNICATION CENTER, THE MAIN FIRE ALARM CONTROL PANEL SHALL BE NETWORKED WITH THE TSW. COORDINATE LOCATION WITH PFM SECURITY AND STAFF.
- (3) INSTALL SYSTEM PRINTER IN THE OCC ROOM AND COORDINATE WITH PFM SECURITY AND STAFF PRIOR TO INSTALLATION.

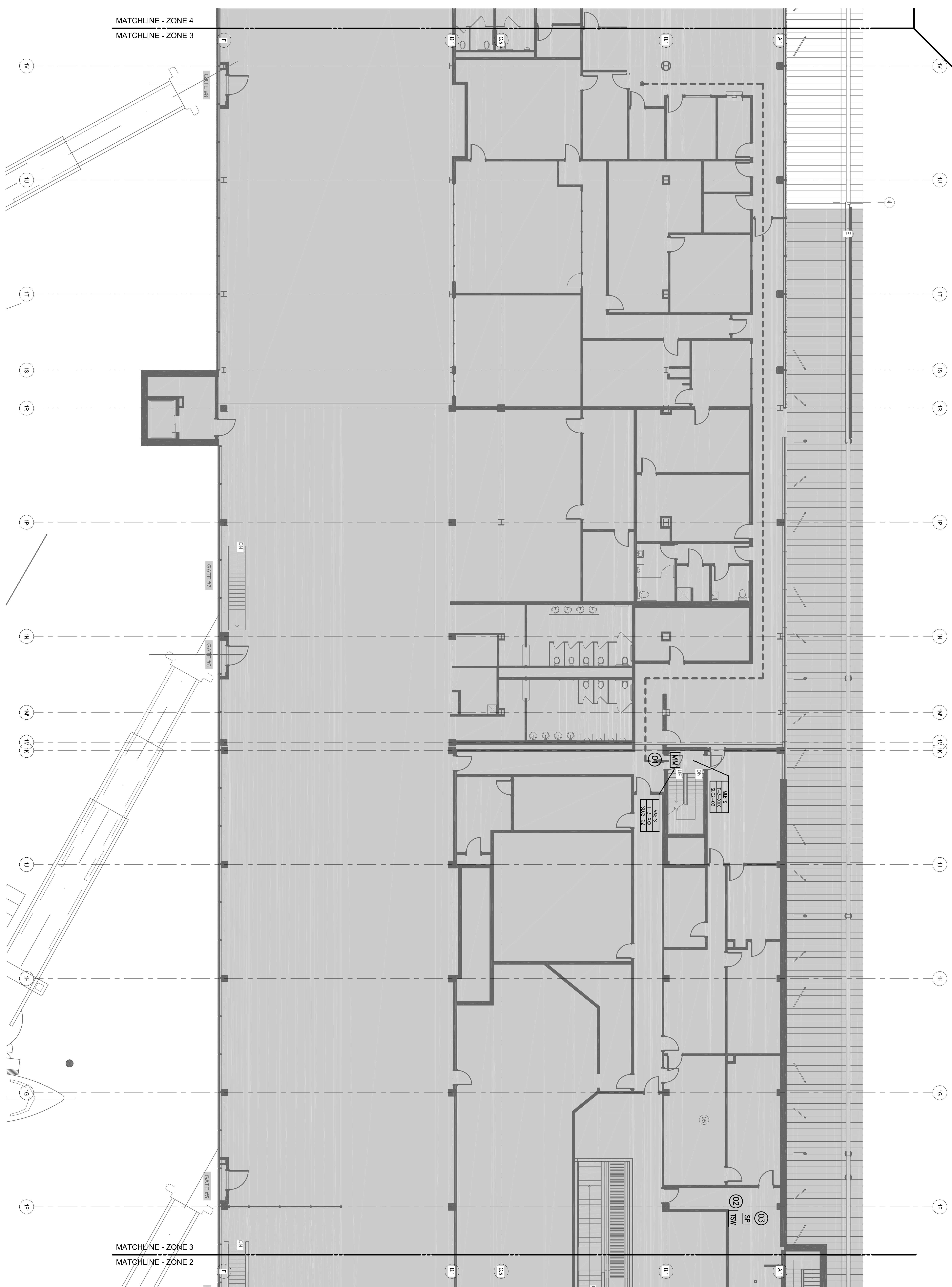
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GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL BE PROVIDED FOR BY THE ARCHITECT. REFER TO THE DRAWINGS FOR ALL APPLICABLE LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES SHALL BE INSTALLED IN THE MOUNTING SPEAKERS SHALL BE TAPPED AT THE WALLAGE SELECTED BY THE SYSTEM SHOP DRAWINGS.
- C IN CASES WHERE AN APPLIANCE CANNOT BE CALLED OUT OR SHOWN ON THE DRAWINGS, THE ARCHITECT SHALL RESTRICTIONS, NOTIFICATION APPLIANCES MAY BE ABLE TO BE MOVED TO CEILING MOUNT DEVICES UPON APPROVAL. DEVICES SHALL BE UL LISTED FOR CEILING MOUNTED APPLICATIONS.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR GROUP OF ROOMS SHALL BE INSTALLED. THE ARCHITECT SHALL FLASH IN SYNCHRONIZATION. THIS SHALL INCLUDE SYNCHRONIZATION OF SIREMS OPERATED BY SEPARATE SYSTEMS.

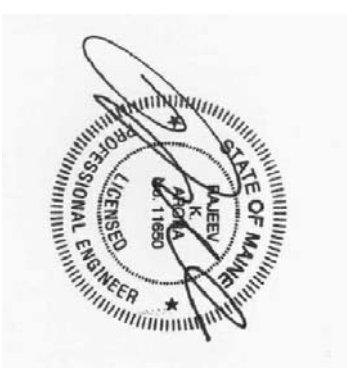
Issue Date & Issue Description By Check
 145 09/01/11 ISSUED FOR CONSTRUCTION SJB RAK

Project Name
PMW TERMINAL EXPANSION

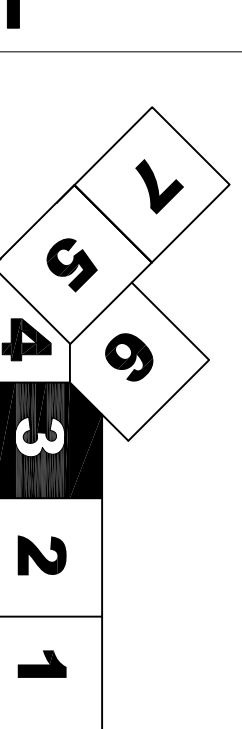
Project Number
F402.03.03

Contract Name
FIRE ALARM CONSTRUCTION PLAN - LEVEL 3 - ZONE 3

Scale
 As Indicated



KEY PLAN



LEVEL 3 - ZONE 3

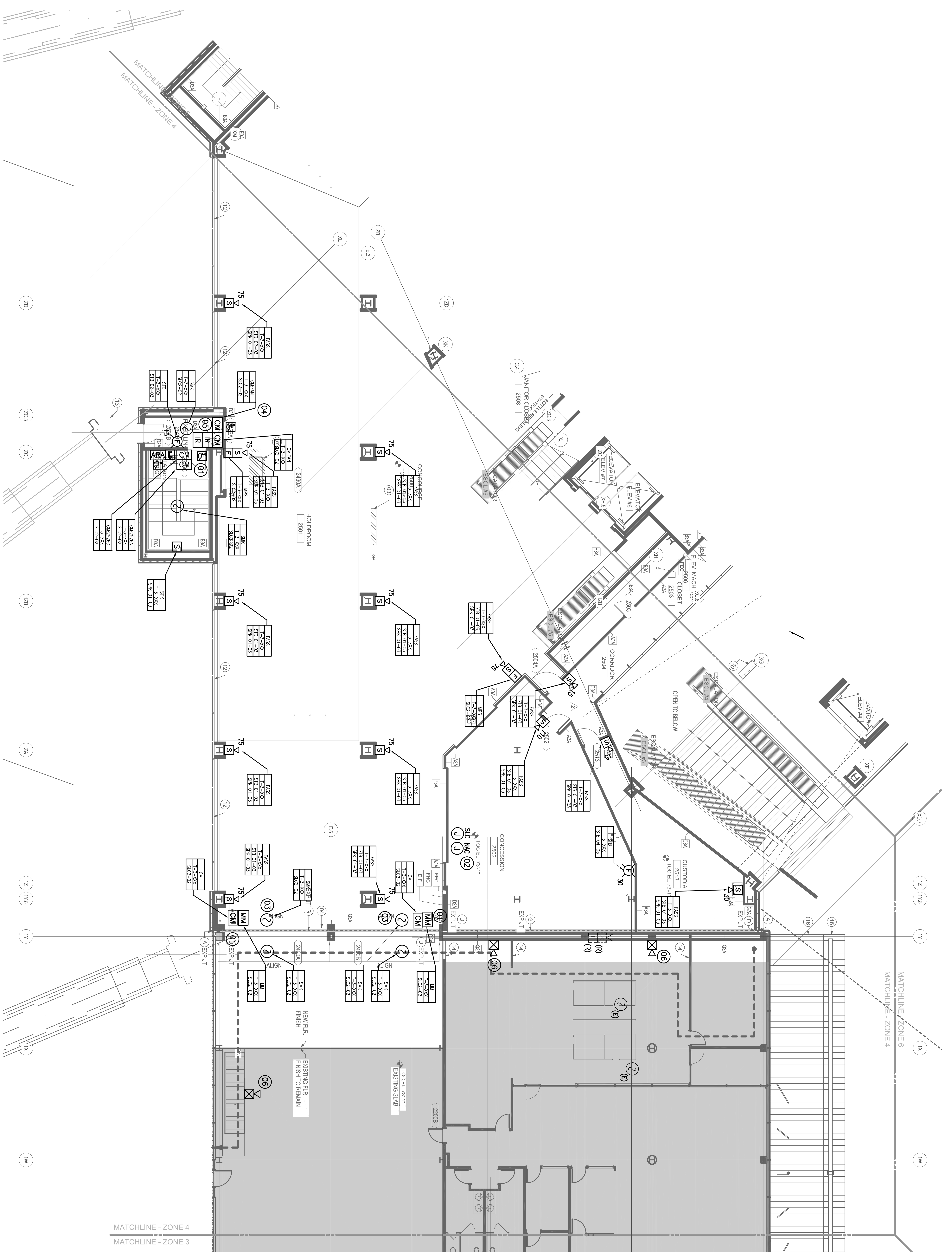
SCALE: 1/8"=1'-0"

FA02.03.03

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SHEET NOTES

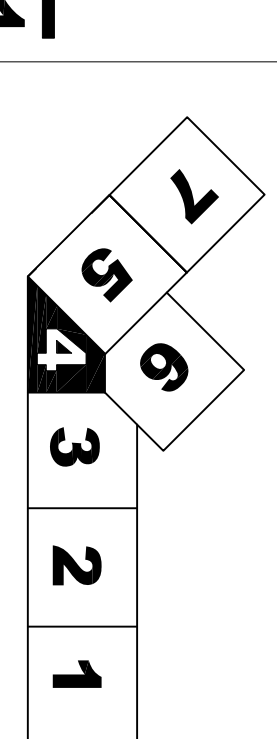
- 01) MODULES SHALL BE INSTALLED AND WIRING SHALL BE COORDINATE WITH SECURITY CONTRACTOR FOR FINAL LOCATION OF MODULE FOR ACCESS CONTROL. SEE FA12.01 FOR FURTHER DETAILS.
- 02) PROVIDE TWO (2) JUNCTION BOXES FOR EVERY CONCESSION SPACE. EACH JUNCTION BOX SHALL RAIN AND BE LOCATED IN THE CONCESSION SPACE. CONTRACTOR SHALL PROVIDE ENOUGH SLACK IN CABLE IN THE EVENT OF A FIRE. THE BOXES SHALL BE MOUNTED WITHIN THE CONCESSION AREA AND COORDINATE FINAL LOCATION WITH THE ARCHITECT PRIOR TO INSTALLATION.
- 03) NEW SMOKE DETECTORS TO BE MOUNTED ON BOTH SIDES OF THE FIRE SHUTTER. DETECTOR SHALL BE WITHIN 10 FEET OF THE SHUTTER. DETECTOR SHALL BE MOUNTED IN ACCORDANCE WITH NFPA 72. INITIATION OF THE DETECTORS SHALL CAUSE THE CONTROL MODULE TO INITIATE THE SYSTEMS FIRE MODE AND SHUT THE FIRE SHUTTER. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO DETERMINE FINAL LOCATION OF THE DETECTOR. NECESSARY 24VDC CIRCUITING AND SLC CIRCUITING TO THE MODULE AND DETECTOR REFER TO ABA23.04 FOR LOCATION OF THE FIRE SHUTTER.
- 04) INSTALL A CONTROL MODULE WITH TWO INTERPOSING RELAYS ASSOCIATED WITH EACH SHUTTER. THE MODULE SHALL CLOSE BOTH THE DOORS LEADING TO THE JETPORT BRIDGE UPON TRIPPING OF THE SMOKE DETECTOR. SEE FA12.02 FOR THE FIRE ALARM PROGRAMMING MATRIX.
- 05) INSTALL AND INTERFACE CONTROL MODULE WITH THE MECHANICAL SHOP DRAWINGS FOR THE FINAL LOCATION. THE MODULE SHALL DETECT SMOKE IN THE FIBSIBLE LINK.
- 06) INSTALL FIRE ALARM HORN/STROBE AND EXTEND CIRCUIT FROM THE EXISTING SYSTEM AS SHOWN IN THE PLAN. CONTRACTOR SHALL PROVIDE SUFFICIENT COVERAGE AND PROVIDE SUFFICIENT COVERAGE AND PROVIDE IF REQUIRED. COORDINATE WITH ALL OTHER TRADES PRIOR TO INSTALLATION.



GENERAL NOTES

- A) MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IBC 2003 NFPA 96A, NFPA 72, LOCAL CODES.
- B) VISUAL NOTIFICATION APPLIANCES ASSIGNED TO THE DRAWINGS. SPEAKERS SHALL BE TAPPED AT THE WATTAGE SELECTED BY THE SYSTEM SHOP DRAWINGS.
- C) IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL RESTRICTIONS, NOTIFICATION APPLIANCES MAY BE ABLE TO BE MOVED TO CEILING MOUNT DEVICES UPON APPROVAL. DEVICES SHALL BE UL LISTED FOR CEILING MOUNTED APPLICATIONS.
- D) MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACES SHALL BE INSTALLED. CONTRACTOR SHALL FLASH IN SYNCHRONIZATION. THIS SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.
- E) CONTRACTOR SHALL BE RESPONSIBLE FOR DEMONSTRATION OF THE FIRE ALARM DEVICES CONSIST OF REMOVAL OF DEVICE, REMOVAL OF CABLING AND CONDUIT BACK TO THE SOURCE, MAINTAINING CIRCUIT CONTINUITY AND ANY AND ALL TESTS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. WIRE NUT SPICES WILL NOT ACCEPTABLE. CIRCUIT MODIFICATIONS SHALL BE BY TERMINAL STRIP ONLY.

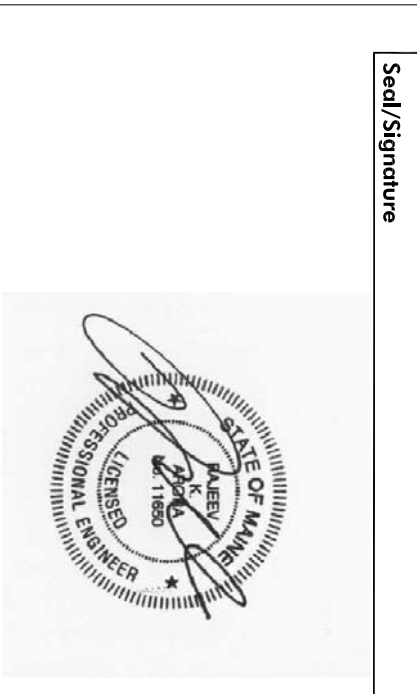
KEY PLAN



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Project Name: **PJM TERMINAL EXPANSION**

Label Number: _____

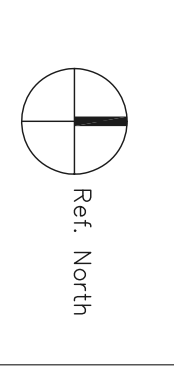
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Description: **FA02.03.04**

Label: **FIRE ALARM CONSTRUCTION PLAN - LEVEL 3 - ZONE 4**

As Indicated

FA02.03.04



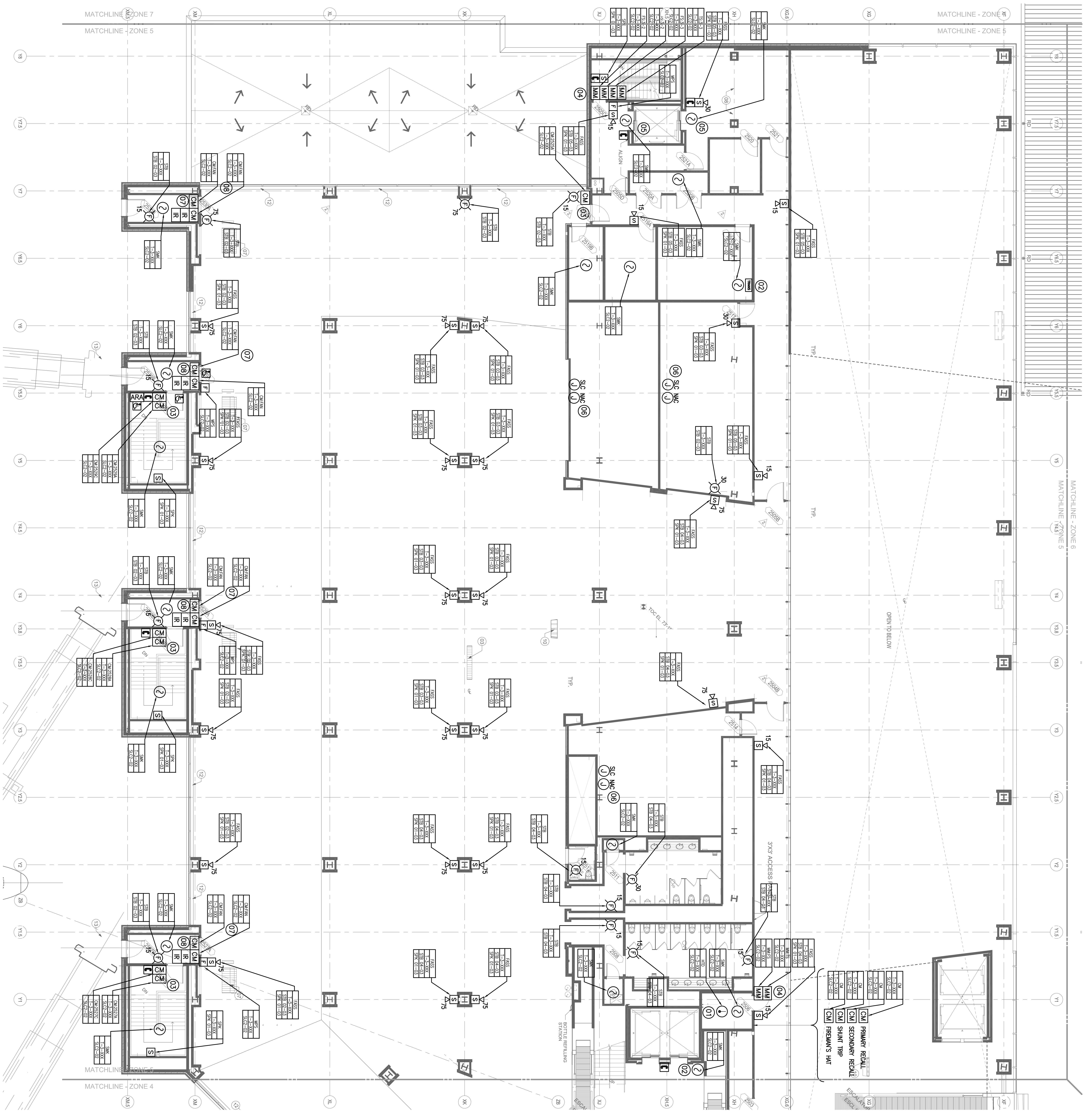
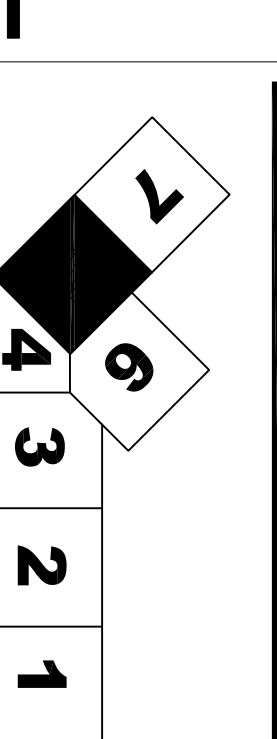
SHEET NOTES

- 01 HEAT DETECTORS SHALL BE INSTALLED WITHIN 2' OF EACH SPRINKLER HEAD THAT SERVES THE ELEVATOR MACHINE ROOM TO ACTIVATE THE ELEVATOR STOP AND HOLD THE ELEVATOR. LOCATIONS OF HEAT DETECTORS SHALL BE DETERMINED BY THE CONTRACTOR.
- 02 CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TRANSDUCER CABINET. LOCATION OF TRANSDUCER CABINET SHALL BE COORDINATED WITH OTHER TRADES. SEE FA12.00 FOR POWER SUPPLY DETAIL.
- 03 MODULES SHALL BE INSTALLED WITHIN THE ELEVATOR MACHINE ROOM. THE SECURITY SYSTEM COORDINATE WITH THE SECURITY CONTRACTOR FOR FINAL LOCATION OF THE MODULE. SEE FA12.01 FOR FURTHER DETAIL.
- 04 CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND BE RESPONSIBLE FOR FINAL LOCATIONS AND QUANTITIES FOR FINAL LOCATIONS OF THE MODULE. SEE FA12.01 FOR FURTHER DETAIL.
- 05 SMOKE DETECTOR SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. SMOKE DETECTOR SHALL BE INSTALLED PER NFPA72 AND THE LOCATION OF THE DETECTOR SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- 06 PROVIDE TWO (2) JUNCTION BOXES FOR EVERY CONCESSION SPACE. EACH JUNCTION BOX SHALL BE RUNNING AN SPEAKER IN SEPARATE BOXES. CONTRACTOR SHALL PROVIDE ENOUGH SLACK IN CABLE IN THE EVENT OF ROUTING EXTENSIONS IN THE FUTURE. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO INSTALLATION.
- 07 INSTALL A CONTROL MODULE WITH TWO INTERPOSING RELAYS ASSOCIATED WITH THE SMOKE DETECTOR IN THE FUSIBLE LINK. THE MODULE SHALL TO THE REPORT BRIDGE UPON TRIPPING OF THE SMOKE DETECTOR. SEE FA12.02 FOR THE FIRE ALARM PROGRAMMING MATRIX.
- 08 INSTALL AND INTERFACE CONTROL MODULE WITH THE DDC PANEL WITHIN THREE FEET OF THE PANEL LOCATION WITH THE MECHANICAL SHOP DRAWINGS FOR THE FINAL LOCATION. THE MODULE SHALL ENERGIZE THE FAN UPON THE DETECTION OF SMOKE IN THE FUSIBLE LINK.

GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IBC 2003 NFPA 96A 7.2. LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES SHALL BE INSTALLED IN THE SAME ROOM OR ADJACENT SPACES. SPEAKERS SHALL BE TAPPED AT THE WATTAGE SELECTED BY THE SYSTEM SHOP DRAWINGS.
- C IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON DRAWINGS, THE CONTRACTOR SHALL RESTRICTIONS, NOTIFICATION APPLIANCES MAY BE ABLE TO BE MOVED TO ADJACENT SPACES UPON APPROVAL. DEVICES SHALL BE LISTED FOR CEILING MOUNTED APPLICATIONS.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACES SHALL FLASH IN SYNCHRONIZATION. THIS SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.

KEY PLAN



LEVEL 3 - ZONE 5

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

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ARORA
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Project Name: **PJM TERMINAL EXPANSION**

Contract Number: **F402.03.05**

Description: **FIRE ALARM CONSTRUCTION PLAN - LEVEL 3 - ZONE 5**

Scale: **As Indicated**

FA02.03.05

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Issue	Date & Issue Description	By	Checked
145	09/01/11 ISSUED FOR CONSTRUCTION	SIB	RAK

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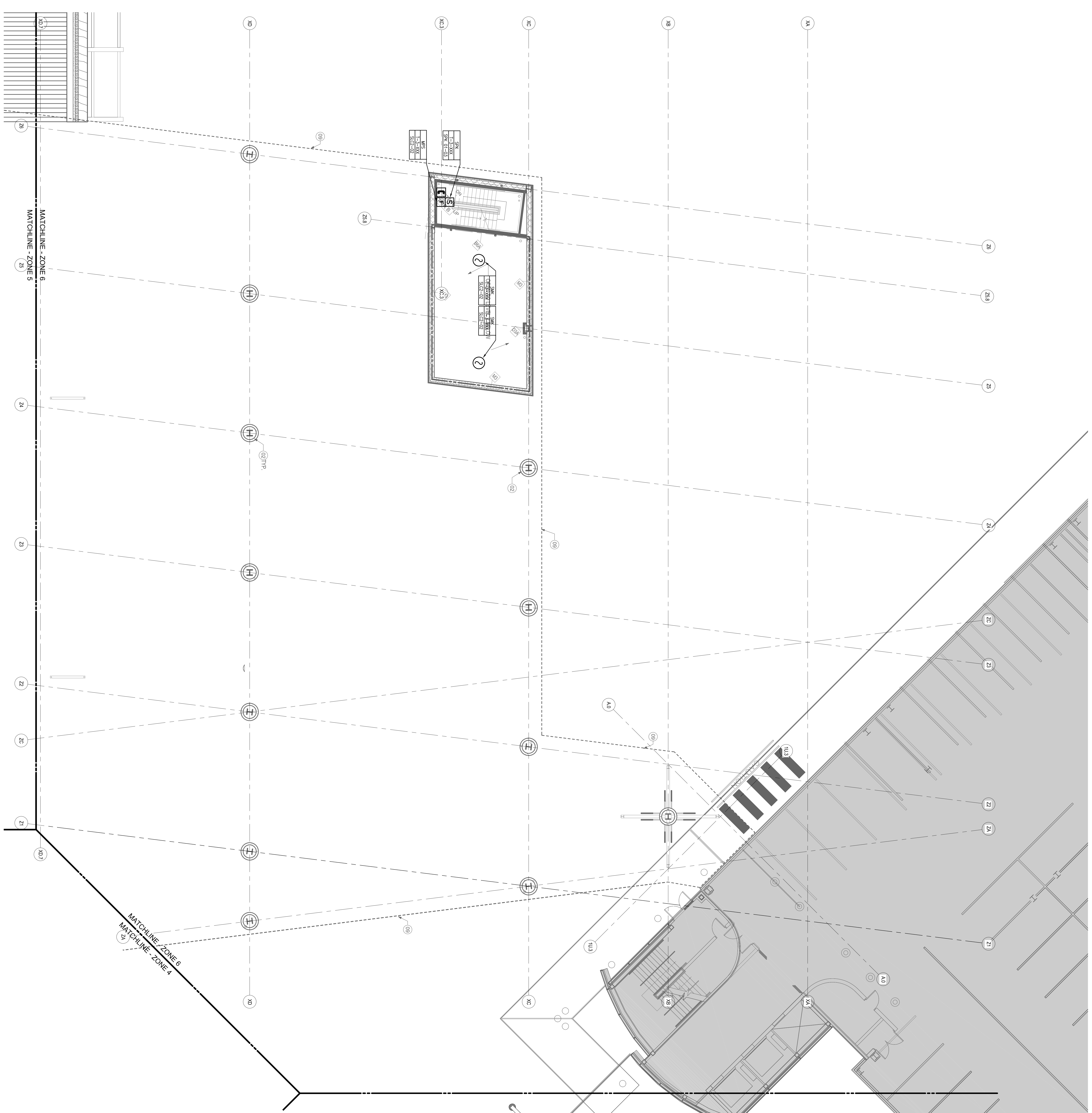
2020 K Street, Northwest
Suite 200 DC - 20006
Washington, DC 20242
Tel: 202.872.8587
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ARORA
Architectural Record

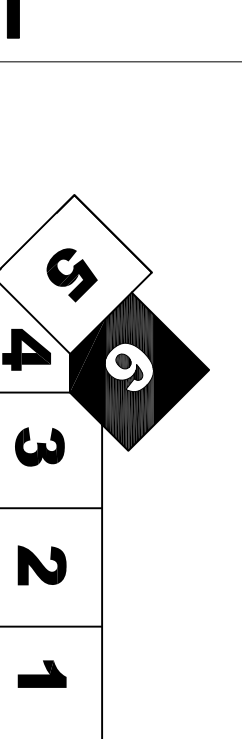
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GENERAL NOTES

- A. MOUNTING FOR ALL DEVICES SHALL COMPLY WITH IRC/2003 NFPA 96A/NFPA 72. NOT ALL DEVICES WILL BE APPLICABLE TO ALL LOCAL CODES.
- B. VISUAL NOTIFICATION APPLIANCES SHALL BE IDENTIFIED BY A WALKING SPEAKERS SHALL BE TAPPED AT THE WATTAGE SELECTED BY THE SYSTEM SHOP DRAWINGS.
- C. IN CASES WHERE AN APPLIANCE CANNOT BE LOCATED WHERE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL RESTRICTIONS, NOTIFICATION APPLIANCES MAY BE ABLE TO BE MOVED TO CEILING MOUNT DEVICES UPON APPROVAL. DEVICES SHALL BE LISTED FOR CEILING MOUNTED APPLICATIONS.
- D. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACES SHALL BE OPERATED BY SEPARATE WALKING SPEAKERS. THIS SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.



KEY PLAN



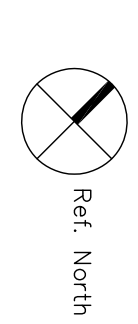
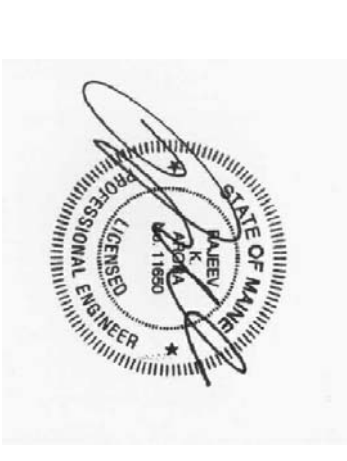
Issue	Date & Issue Description	By	Check
145	09/01/11	SJB	RKA
ISSUED FOR CONSTRUCTION			

Project Name
PWM TERMINAL EXPANSION

Contract Number
F402.03.06

Contract Description
FIRE ALARM CONSTRUCTION PLAN - LEVEL 3 - ZONE 6

Scale
As Indicated



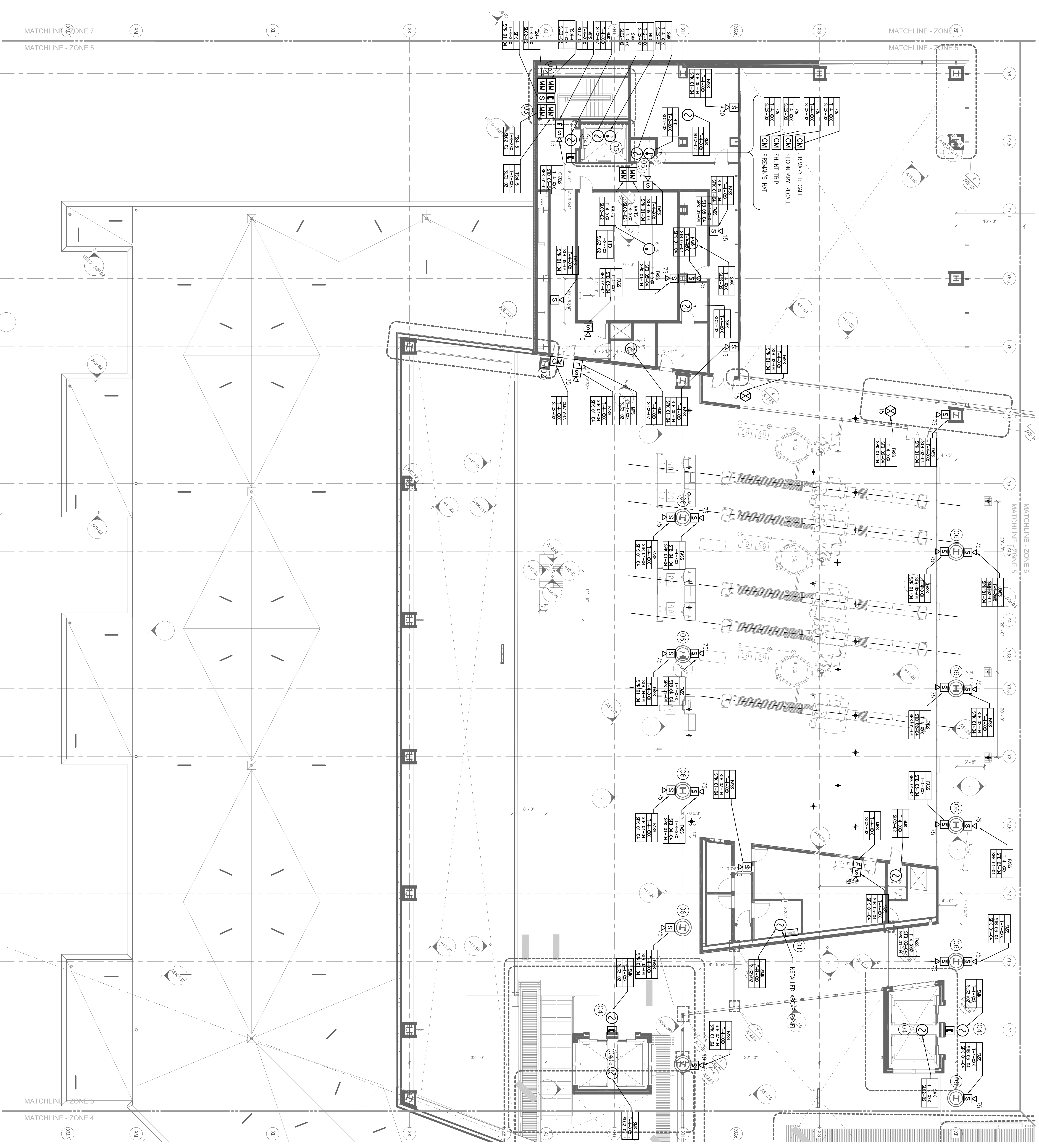
SHEET NOTES

- (01) CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TRANSFORMER CABINETS ASSOCIATED WITH THE NEW TERMINAL BUILDING. LOCATION OF 4100V AND TRANSFORMER CABINET WITH BERS SHALL BE COORDINATED WITH OTHER SUPPLY DETAIL.
- (02) MODULES SHALL BE INSTALLED CLOSE TO THE SECURITY SYSTEM CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH OTHER DISCIPLINE FOR FINAL LOCATIONS OF MODULES FOR PANEL DETAILS. SEE 14.201 FOR BWP SUPPLY DETAIL.
- (03) CONTRACTOR SHALL COORDINATE WITH SECURITY SYSTEM CONTRACTOR FOR FINAL LOCATIONS OF MODULES FOR PANEL DETAILS.
- (04) SMOKE DETECTOR FOR ELEVATOR RECALL SHALL BE INSTALLED PER NFPA72. FINAL LOCATION AND THE TYPE OF THE SMOKE DETECTOR SHALL BE APPROVED BY THE ARCHITECT.
- (05) INSTALL HEAT DETECTORS IN THE MACHINE ROOM AND THE SHaft WITHIN TWO FEET OF THE SPRINKLER. THE CONTRACTOR SHALL INITIATE SHUNT TRIP COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR FINAL LOCATION OF THE DETECTOR.
- (06) CONDUITS SHALL RUN CAST INTO THE CONCRETE COLUMNS. BACKBOXES SHALL BE FULLY RECESSED INTO THE CONCRETE COLUMNS.

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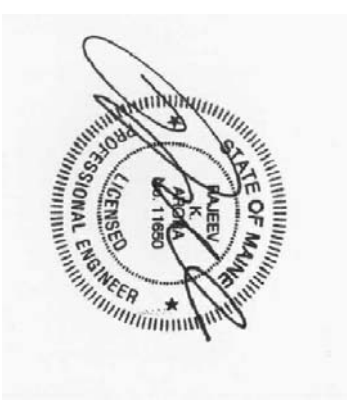
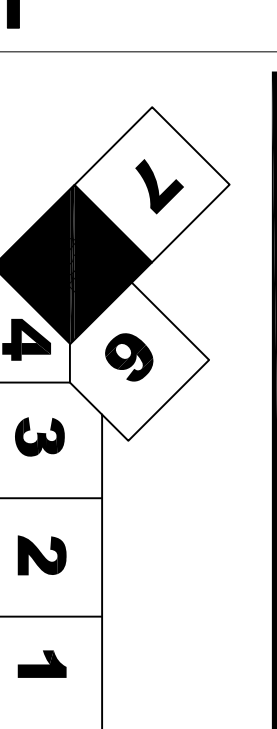
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GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL BE IN ACCORDANCE WITH NFPA 72, NFPA 70, AND ALL APPLICABLE LOCAL CODES.
- B VISUAL NOTIFICATION APPLIANCES SHALL BE IDENTIFIED BY NUMBERING SPEAKERS SHALL BE TAPPED AT THE WATTSAGE SELECTED BY THE SYSTEM SHOP DRAWINGS.
- C IN THE EVENT THAT A DEVICE IS LOCATED IN AN UNDESIRABLE LOCATION THE CONTRACTOR SHALL NOTIFY THE ENGINEER DURING THE SHOP DRAWINGS PHASE. THE NOTIFICATION TO THE ENGINEER SHALL BE IN WRITING AND CONDUIT AND JUNCTION BOX ROUGH-IN MORE THAN TWO VISIBLE NOTIFICATION NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE SAME FIELD OF VIEW SHALL NOT BE INSTALLED. THE NOTIFICATION OF STROBES OPERATED BY SEPARATE SYSTEMS.

KEY PLAN



Project Name: **PWM TERMINAL EXPANSION**
 Issue Date: 09/01/11
 Issue Description: **ISSUED FOR CONSTRUCTION**
 Project Number: **S18**
 Issue Number: **145**

Contractor: **FA02.04.05**
 Description: **FIRE ALARM CONSTRUCTION PLAN - LEVEL 4 - ZONE 6**
 Title: **As Indicated**

FA02.04.05
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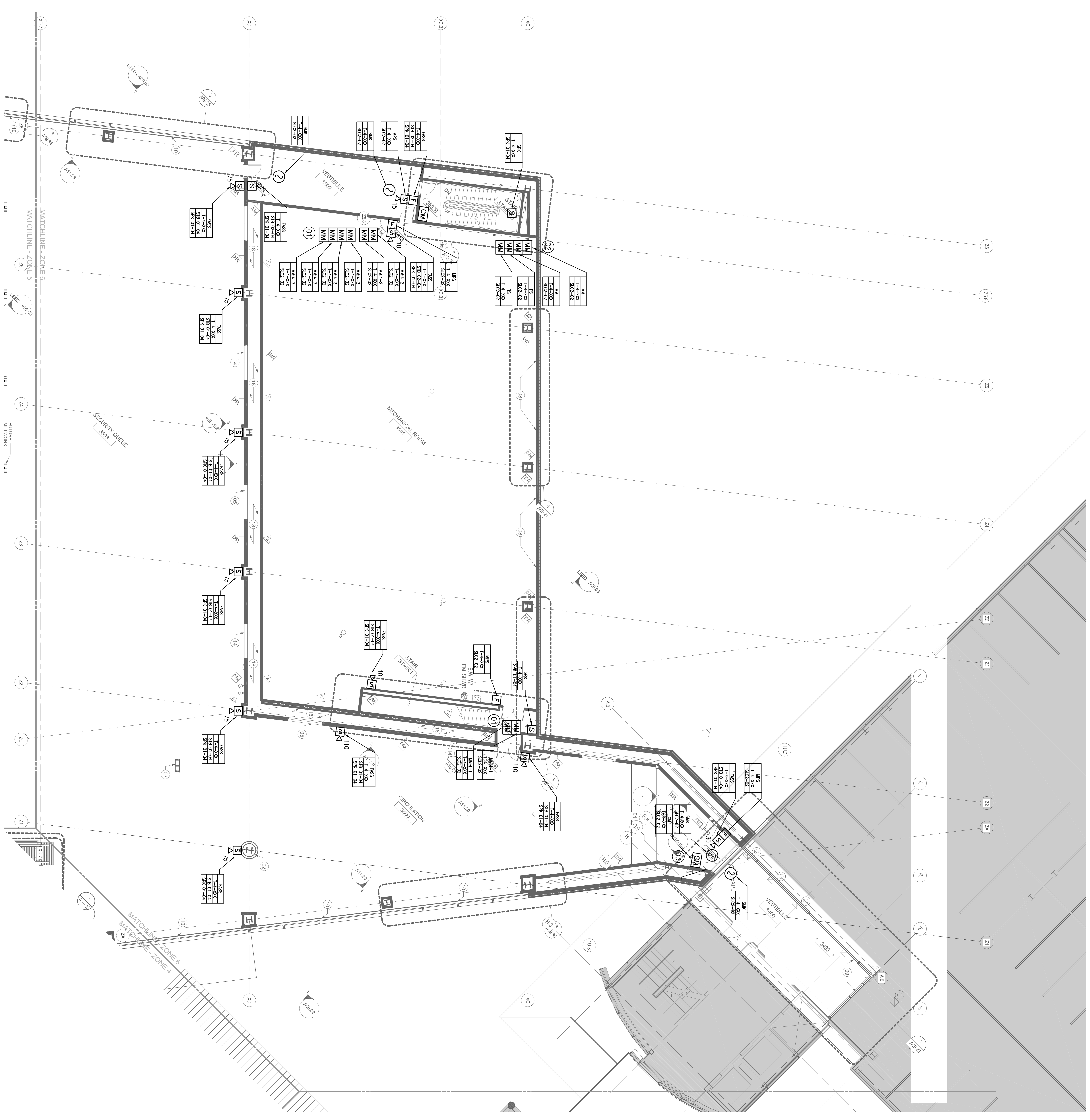
SHEET NOTES

- ① CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO BE RESPONSIBLE FOR FINAL LOCATIONS AND QUANTITIES OF MODULES MONITORING FLOW AND TAMPER SWITCHES.

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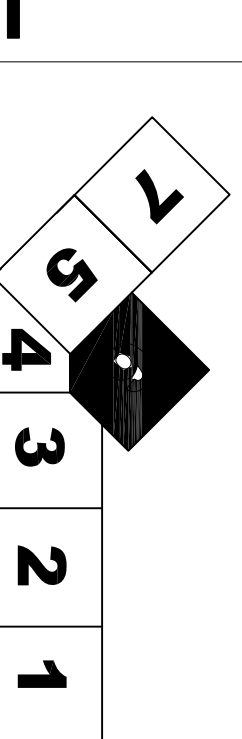
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Fax: (610) 459-7990



GENERAL NOTES

- A MOUNTING FOR ALL DEVICES SHALL BE SHOWN ON THE DRAWINGS. SEE SPECIFICATIONS FOR FINAL LOCATIONS AND QUANTITIES OF MODULES MONITORING FLOW AND TAMPER SWITCHES.
- B VISUAL NOTIFICATION APPLIANCE SHALL BE SHOWN ON THE DRAWINGS. SEE SPECIFICATIONS FOR FINAL LOCATIONS AND QUANTITIES OF MODULES MONITORING FLOW AND TAMPER SWITCHES.
- C IN CASES WHERE AN APPLIANCE IS SHOWN ON THE DRAWINGS, DUE TO PHYSICAL RESTRICTIONS, NOTIFICATION APPLIANCE MAY BE ABLE TO BE MOVED TO CEILING MOUNT DEVICES UPON APPROVAL. DEVICES SHALL BE LISTED FOR CEILING MOUNTED APPLICATIONS.
- D MORE THAN TWO VISIBLE NOTIFICATION APPLIANCE OR GROUPS OF VISIBLE NOTIFICATION APPLIANCE IN THE SAME FIELD OF VIEW SHALL INCLUDE SYNCHRONIZATION OF SYSTEMS OPERATED BY SEPARATE SYSTEMS.

KEY PLAN



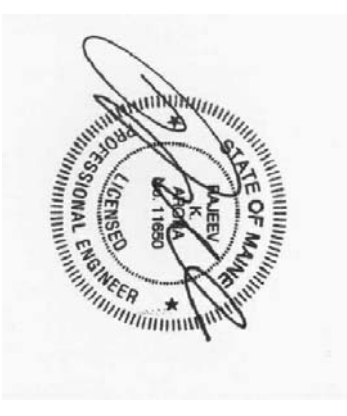
Issue	Date & Issue Description	By	Check
145	09/01/11	SJB	RKA
ISSUED FOR CONSTRUCTION			

Project Name
PJM TERMINAL EXPANSION

Contract Number
FA02.04.06

Discipline
FIRE ALARM CONSTRUCTION PLAN - LEVEL 4 - ZONE 6

Scale
As Indicated



FA02.04.06

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