FAN SCHEDULE								
CVNAROL	MAANUEACTURER	MODEL	CERVICE LOCATION	CEN 4	DDM	ELECTRICAL		
SYMBOL	MANUFACTURER	SERVICE LOCATION CFM		RPM	POWER (WATT)	VOLT-PHASE		
EF-1	EAGLE EYE	VS-12	BATTERY RECHARGE AREA	850	900	80	120-1	

PROVIDE FIXED EXTERNAL RAIN LOUVER AND MOTOR DRIVEN INTERNAL DAMPER.

VS-12 CALCULATED CFM IS 600 AS PER THE STATIC PRESSURE OF 0.2 INCH H2O.

SYMBOL	MANUFACTURER	MODEL	SERVICE LOCATION	CFM	RPM	ELECTRICAL	
STIVIBUL	IVIANOFACTORER	INIODEL	SERVICE LOCATION	CFIVI	KPIVI	POWER (WATT)	VOLT-PHASE
EF-1	EAGLE EYE	VS-12	BATTERY RECHARGE AREA	850	900	80	120-1
NOTE: 1. FAN SHAL	L BE TYPE B SPARK RESISTA	NT CONSTRUCT	ion.				

	VENTILATION SYMBOL LIST
	NOT ALL SYMBOLS MAY APPLY.
SYMBOL:	DESCRIPTION:
+ +	MANUAL VOLUME DAMPER

| MANUAL VOLUME DAMPER DUCT CAP DUCT DOWN

DUCT UP AFF ABOVE FINISH FLOOR CFM CUBIC FOOT PER MINUTE

DN DOWN EA EXHAUST AIR EF EXHAUST FAN ESP EXTERNAL STATIC PRESSURE

MECHANICAL GENERAL NOTES: . REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND PROVIDE PROPER ACCESS AND CLEARANCES

REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE 2. SEAL ALL FLOOR, WALL PENETRATIONS AIRTIGHT WHERE

- DUCT PENETRATE.
- 3. MANUFACTURER SHOWN IN SCHEDULE IS BASIS OF DESIGN. 4. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT
- 5. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- 6. ALL DUCTWORK SHOWN ARE SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS ETC TO ALLOW SMOOTH FLOWS.

SCOPE OF WORK:

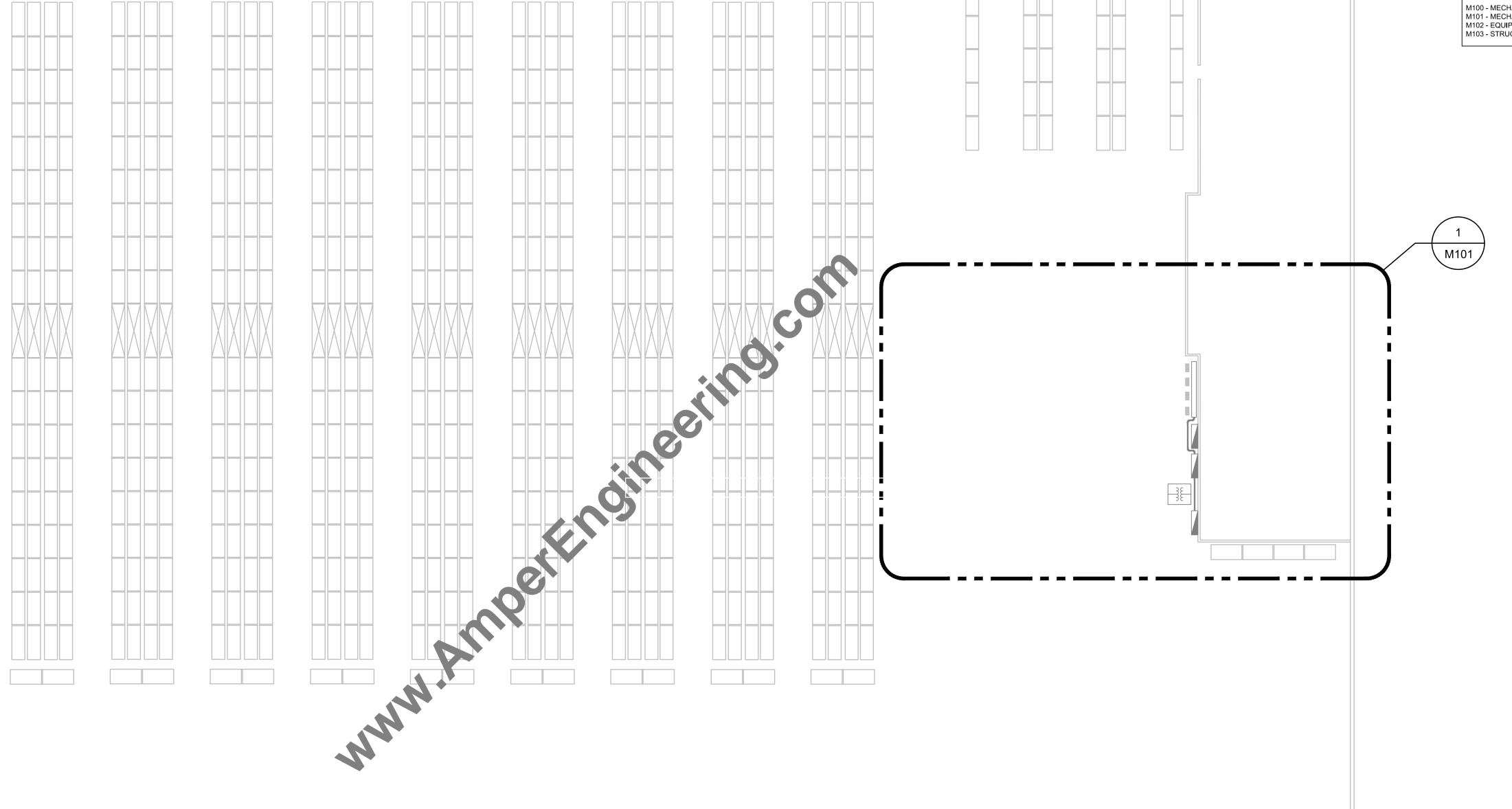
CONSTRUCTION STANDARD.

INSTALLATION OF EXHAUST FAN, HYDROGEN SENSOR AND ASSOCIATED MECHANICAL EQUIPMENT.

DRAWING INDEX:

M100 - MECHANICAL FLOOR PLAN, SCHEDULE AND NOTES. M101 - MECHANICAL FLOOR PLAN, DETAILS. M102 - EQUIPMENT CUT SHEETS.

M103 - STRUCTURAL SUPPORT FOR HOOD DETAIL.



MECHANICAL FLOOR PLAN
SCALE: 1/16" = 1'-0"

cn=Durak Evrim Ercan, email=info@AmperEng ineering.com Date: 2020.12.01 20:06:41 -05'00'

O=Durak Evrim Ercan,

Digitally signed by Durak Evrim Ercan DN: c=US, st=New Jersey, I=Montclair,

PROFESSIONAL ENGINEERING:

SEAL & SIGNATURE:

12/01/2020

ENGINEERING

ENGINEERING I CONSULTING I ESTIMATING

\$201-920-2899 **☑**info@AmperEngineering.com

NO ALTERATION PERMITTED

EXCEPT AS PROVIDED UNDER

DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

0 12/01/2020 ISSUED FOR PERMIT APPLICATION

REV. DATE DESCRIPTION

PROJECT:

CLIENT:

BATTERY FAN

ADDRESS:

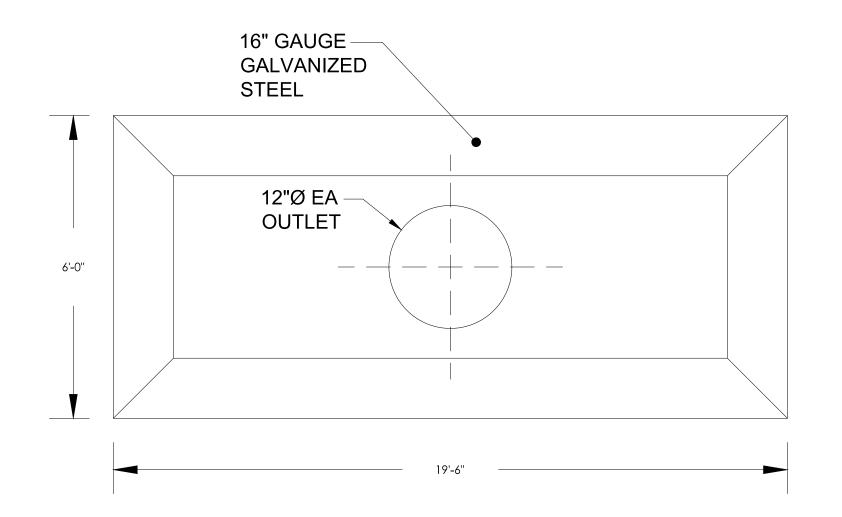
CINNAMINSON NJ 08077

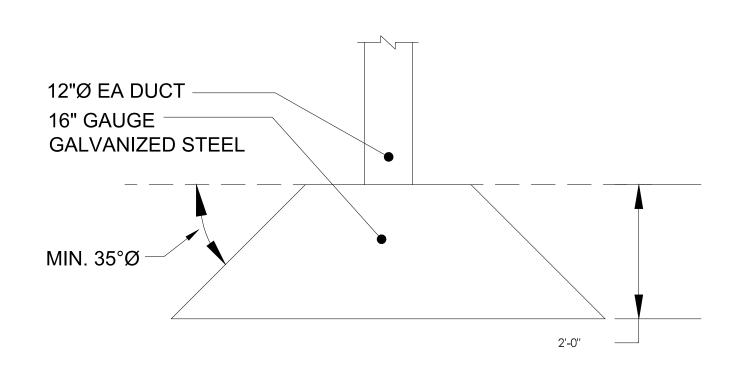
ISSUE DATE: 12/01/2020 PROJECT NUMBER: AE# 1239 SCALE: DRAWN BY:

NONE CDS DESIGNED BY: CHECKED BY: DEE

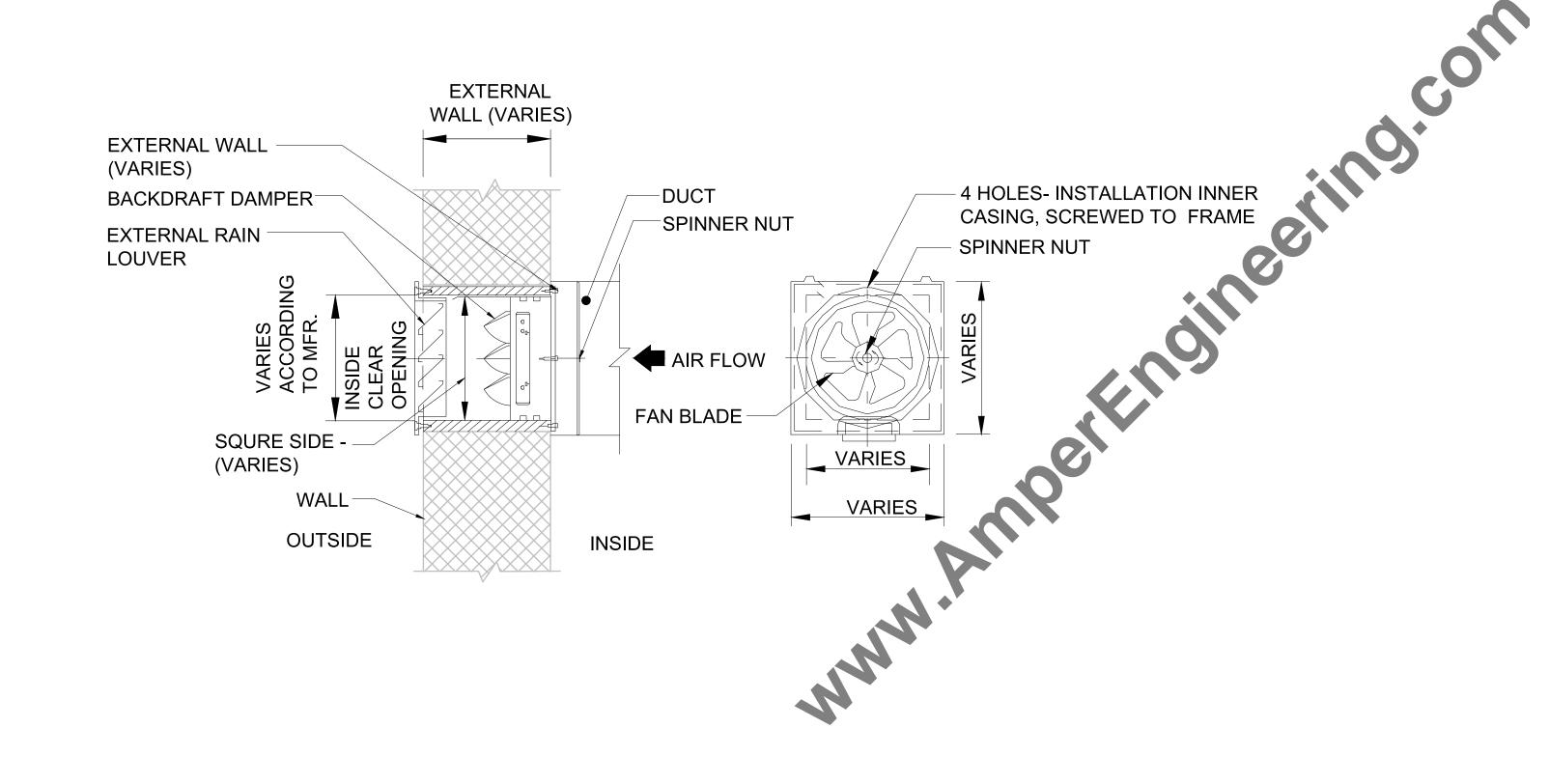
DRAWING TITLE: MECHANICAL FLOOR PLAN, SCHEDULE AND NOTES

M100

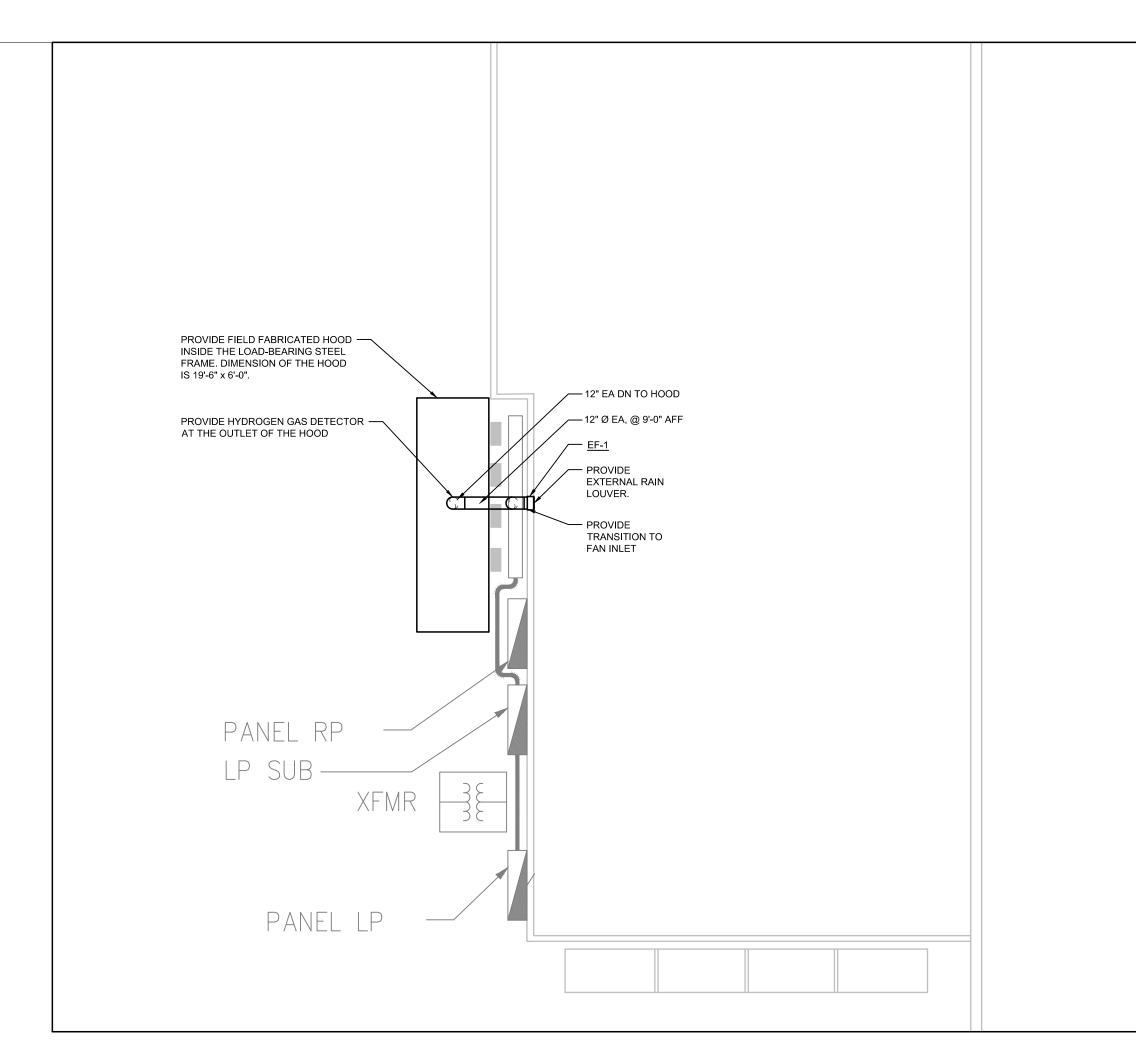




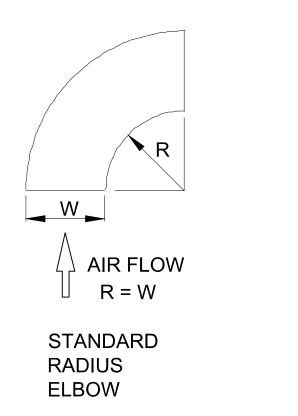
2 HOOD DETAIL SCALE: N.T.S.

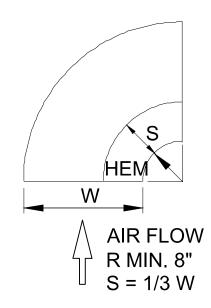


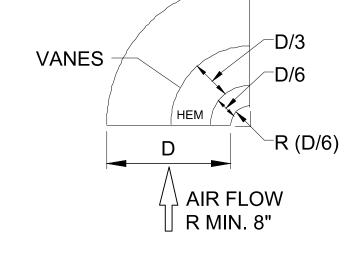
3 EXHAUST FAN DETAIL SCALE: N.T.S.



1 ENLARGED FLOOR PLAN SCALE: 1/8" = 1'-0"







SHORT RADIUS
ELBOW UP TO AND
INCLUDING 26" WIDE
FOR G.I DUCT

SHORT RADIUS ELBOW LARGER THAN 26" WIDE FOR G.I DUCT

4 ELBOW CONSTRUCTION DETAIL SCALE: N.T.S.



SEAL & SIGNATURE:



NO ALTERATION PERMITTED EXCEPT AS PROVIDED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

0 12/01/2020 ISSUED FOR PERMIT APPLICATION
REV. DATE DESCRIPTION

CLIENT:

PROJECT:

BATTERY FAN

ADDRESS:

CINNAMINSON NJ 08077

ISSUE DATE:	
12/01/2020	
PROJECT NUMBER:	
AE# 1239	
SCALE:	DRAWN BY:
NONE	CDS
DESIGNED BY:	CHECKED BY:
AC	DEE

DRAWING TITLE:

MECHANICAL FLOOR

PLAN, DETAILS

DRAWING NO:

M101

0



HGD Specifications

Summary

This document describes the requirements for a hydrogen gas detection system (HGD). Standard functions and features should include:

- Unattended gas detection
- External fan activation Remote alarming
- Audible alarming LED lit alarming
- Optional: Smoke detection
- Optional: Temperature activated external fan
- Optional: Loss of power alarm
- Optional: Silent intrusion alarm Optional: Hydrogen gas ventilation system Optional: Control or breakout box

2. Hydrogen Gas Detector Capabilities

The hydrogen gas detector should have the following capabilities:

- 2.1 User specified AC or DC power options with standard ranges of 85 265 VAC 50/60Hz or
- 2.2 10A relay for activation of external fan ventilations system at 1% LEL.
- 2.3 1A relay for remote alarm activation at 2% LEL 2.4 Operating temperature of -10 - 40 °C (14 - 104 °F)
- 2.5 5-year lifespan replaceable hydrogen sensor

3. System Complance

The hydrogen gas detection system should comply to the following standards:

- IEEE Standard 450
- National Fire Protection Agency (NFPA) Article 64; NFPA 2
- Hydrogen Technologies Code
- Uniform Building Code (UBC) Section 6400 National Electric Code (NEC) Section 480.9 (A)
- National Electric Code (NEC) Section 501.125 (B)
- National Electric Code (NEC) Section 501.105 (1)-3 use in Class 1 Division 2 Group

www.eepowersolutions.com | Tel: 1-677-805-3377 | Fax: 1-414-962-3560 | info@eepowersolutions.com | V1.0



GD-Series

Gas Detection

EAGLE EYE POWER SOLUTIONS

HGD-2000 Hydrogen Gas Detectors



The HGD-2000 Hydrogen Gas Detector allows the user to monitor hydrogen gas buildup in storage rooms and facilities that house batteries. The HGD-2000 is easy-to-use and easy-to-install. The detector has a terminal block for connection to single-phase AC power source and two internal relays. The relays can be used

to switch a remote exhaust fan and/or alarm on and off. If the concentration of hydrogen gas in the air surrounding the sensor reaches 1% by volume, the yellow LED will light and the 1% internal relay will close. A four second delay prevents false activation. If the concentration reaches 2%, the red LED will flash, the internal 80 db warning alarm will sound, and the 2% internal relay will close.

Technical Specifications

(4) 4.5 mm (3/16 in) screws

17 – 60 VDC (upon request)

178 x 120 x 55 mm (7 x 4.75 x 2.5 in)

- Automatic Operation and Continuous 24/7 Monitoring
 Long Lifespan for Reliable Monitoring
- High Sensitivity and Stability Inexpensive protection for equipment and personnel Save insurance costs - reduce insurance premiums when placed in battery charging rooms

HGD-2000

Alarm Relay:

Mounting:

Operating Environment:

Power Requirements:



Applications Utilities and Power Plants Control Box

UPS Power Systems

 Fuel Cell Test Stations Nuclear Waste Reforming

 Hydrogen Refueling Stations Fire Department Battery Suppliers

 Battery Charging Rooms Motive Power Golf Cart (2) form C contacts provided, user-configurable connections

Kit includes HGD-2800 User Manual Temperature: -10 - 40 °C (14 - 104 °F) Optional: Control Box 85 - 265 VAC, 50/60 Hz (standard) and cable for remote alarm control and IEEE Standard 450; National Fire Protection Agency (NFPA) Article 64; NFPA 2: Hydrogen Technologies Code; Uniform Optional: Junction Building Code (UBC) Section 6400; National Electric Code (NEC) Section 480.9 (A); NEC 501.125 (B); NEC 501.105 (1)-3 Calibration Certificate available - use in Class 1 Division 2 Group B.

Ordering Information Model No.

HGD-2000 Hydrogen Gas Detector (Dual-Relay) Control Box Remote control box with connection cable

Fagle Eye Pewer Selutions, LLC www.espowersolutions.com 1-877-805-3377 info@eopowersolutions.com

2 HYDROGEN GAS DETECTOR

VS-Series Ventilation Systems

EAGLE EYE POWER SOLUTIONS

VS-12 Hydrogen Gas Exhuast Fan



Product Overview

The VS-12 exhaust fan is designed to work with hydrogen gas detectors to protect battery charging rooms and other locations where motive and stationary batteries are present. The VS-12 can also be used where there is a possibility of other flammable or toxic gases accumulating in confined

VS-12 fans feature a sliding collar for easy installation in walls 1 1/2" to 8" in thickness. Fixed external rain louvers and motor driven internal dampers provide weather resistant venting. Energy costs decrease as a result of controlled exhaust fan operation rather than continuous fan

Three models are available: 120 VAC, and 24 or 48 VDC. Optionally the VS-12 is available with the fan reversed for use as forced make-up air for

Features

Airflow

Optional

- 850 CFM wall mounted fan Compliant with NEC 501, Class I Division II Group B Powered dampers Designed for use with explosive or toxic gas detectors, including the Eagle Eye HGD-Series
- LED status display · Motorized dampers locked when open or closed Simple installation with sliding collar to fit different wall thicknesses
- Long operating life Available in 120 VAC and 24 or 48 VDC versions

850 CFM

 Insurance premium reduction may be realized Technical Specifications Mounting Opening: 311 x 311 mm (12.25 x 12.25 in.) Requirements Wall thickness: 38 to 203 mm (1.5 to 8 in.) Dimensions L x W x H: 241 x 305 x 305 mm (9.5 x 12 x 12 in.) 110 AC, .67A (80W) 24 VDC, 3.5A Requirements 48 VDC, 1.7A

Reversed fan for use as forced air

THE CASE CIT ≝ •⊕•_ Compatible with Eagle Eye HGD-Series hydrogen gas, smoke, and intrusion

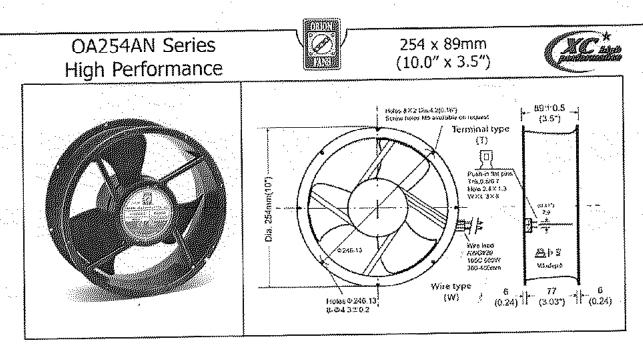
VS-12 Fan

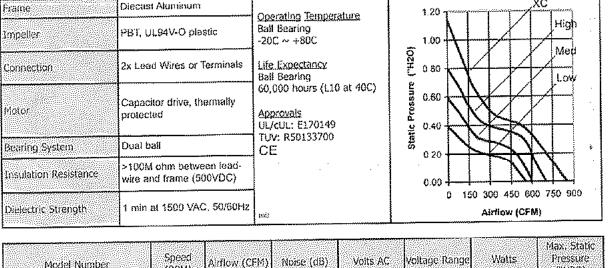
Ordering Information

Model No. VS-12-110AC rogen Gas Exhaust Fan, 110 VAC Input VS-12-24DC Hydrogen Gas Exhaust Fan, 24 VDC Input VS-12-48DC 2" Hydrogen Gas Exhaust Fan, 48 VDC Input HGD-Series Hydrogen Gas, Smoke, and Intrusion Detectors

Power Solutions, LLC www.eepowersolutions.com 1-877-805-3377 info@eepowersolutions.com

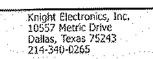
EXHAUST FAN SPECIFICATION





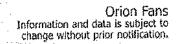
Model Number	Speed (RPM)	Alrflow (CFM)	Noise (dB)	Voits AC	Voltage Range	Watts	Pressure (°H2O)
0A254AN-11-1 * XC	2700	850	69	115	80~130	75	1.14
OA254AN-11-1 *	2200	700	65	115	80~130	70	0.80
OA254AN-11-2 *	2000	500	55	115	80~130	45	0.59
OA254AN-11-3 *	1100	320	48	115	80~130	32	0.31
OA254AN-22-1 * XC	2700	850	69	230	160~260	75	1.14
OA254AN-22-1 *	2200	700	65	230	160~260	70	0.80
OA254AN-22-2 *	2000	500	55	230	160~260	45	0.59
0A254AN-22-3 *	1100	320	48	230	160~260	32	0.31
***************************************		··········					

* Indicate "T6" for terminal type or "WB" for Wire leads (300mm)





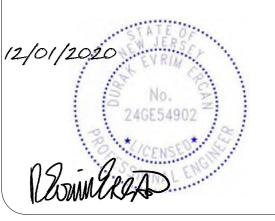




EXHAUST FAN PERFORMANCE CURVE

PROFESSIONAL ENGINEERING: ENGINEERING I CONSULTING I ESTIMATING **\$_201-920-2899 ☑**info@AmperEngineering.com

SEAL & SIGNATURE:



NO ALTERATION PERMITTED EXCEPT AS PROVIDED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

0 12/01/2020 ISSUED FOR PERMIT APPLICATION REV. DATE DESCRIPTION

PROJECT:

CLIENT:

BATTERY FAN

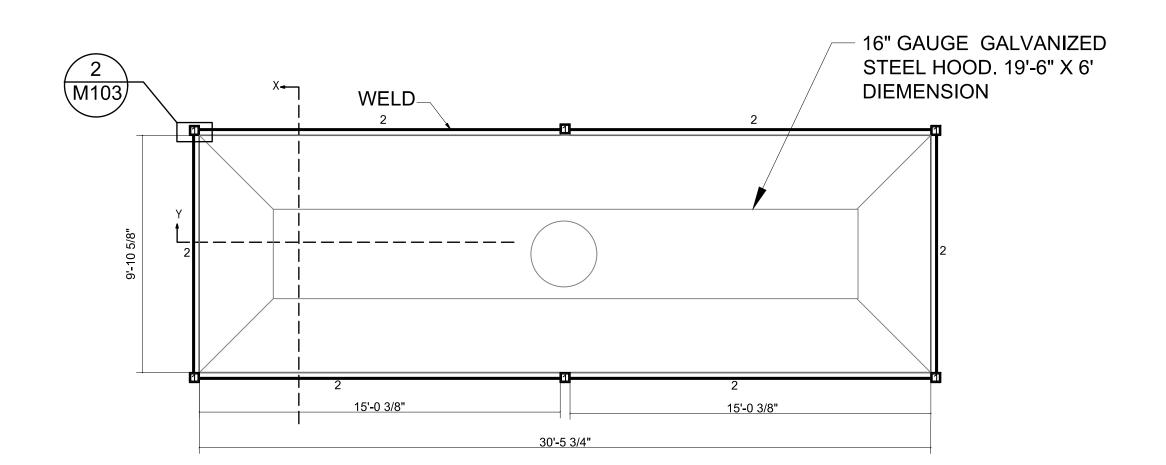
ADDRESS:

CINNAMINSON NJ 08077

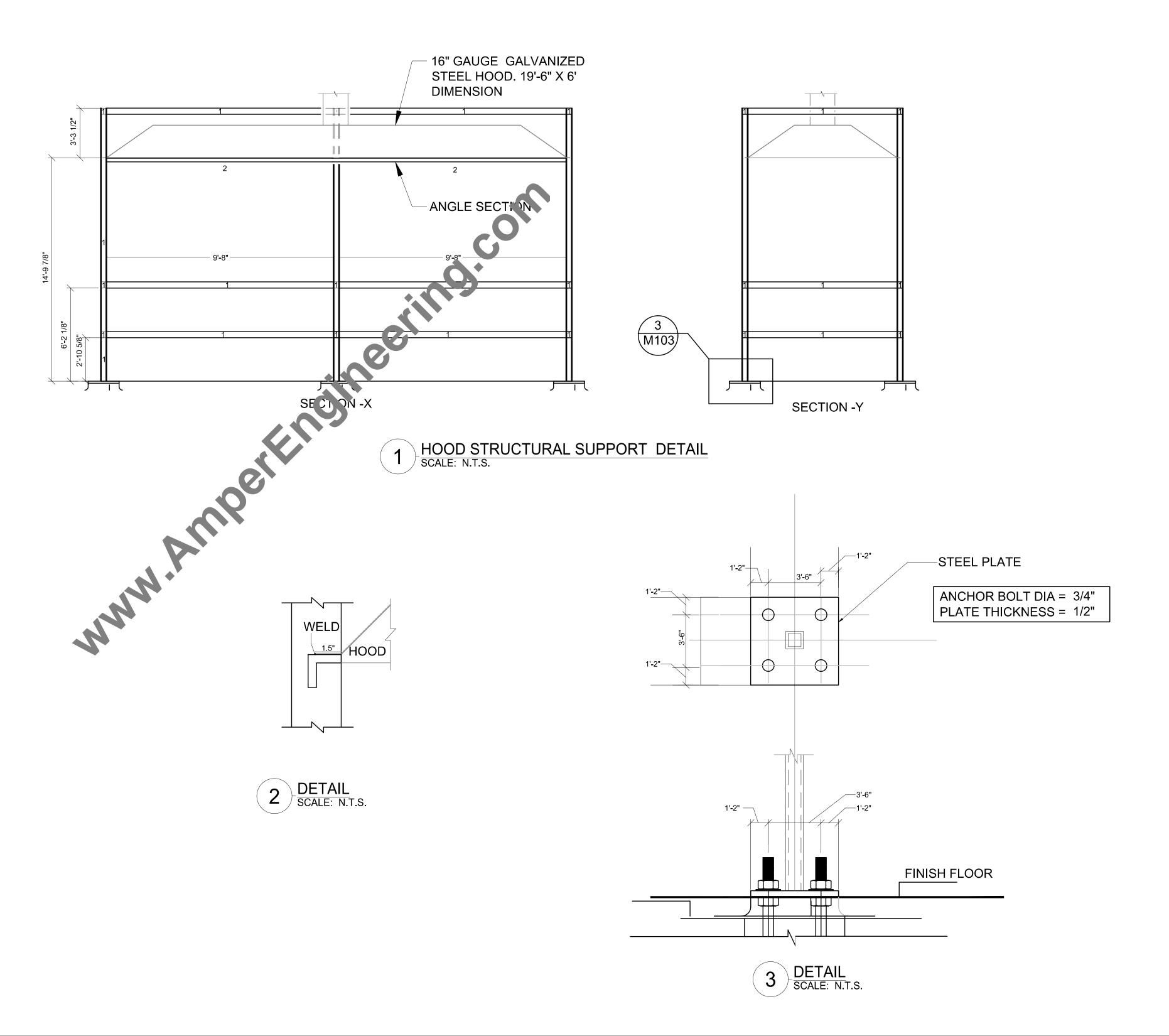
ISSUE DATE: 12/01/2020 PROJECT NUMBER: AE# 1239 DRAWN BY: NONE DESIGNED BY: CHECKED BY: DEE AC

DRAWING TITLE: **EQUIPMENT CUT SHEETS**

M102

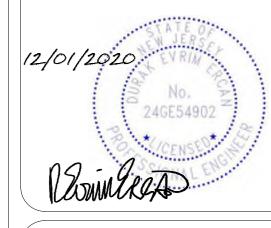


LEGEND :-								
No.	MKD.	MEMBER						
1	1	HSS 3"x3"x3/4"						
2	2	L 3"x3"x1/4"						





SEAL & SIGNATURE:



NO ALTERATION PERMITTED EXCEPT AS PROVIDED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

PROJECT:

CLIENT:

0 12/01/2020 ISSUED FOR PERMIT APPLICATION

REV. DATE DESCRIPTION

BATTERY FAN

ADDRESS:

CINNAMINSON NJ 08077

ISSUE DATE: 12/01/2020 PROJECT NUMBER: AE# 1239 SCALE: DRAWN BY: NONE CDS DESIGNED BY: CHECKED BY: DEE AC

DRAWING TITLE:
STRUCTURAL SUPPORT FOR HOOD DETAIL

M103

PROJECT DESCRIPTION

KRAUS BATTERY FAN

2703 UNIT 1, CINNAMINSON NJ 08077

SHEET INDEX

E100 ELECTRICAL COVER SHEET, GENERAL NOTES AND SYMBOL LEGEND E200 HYDROGEN GAS SENSOR AND EXHAUST FAN WIRING DIAGRAM

GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION (ANSI)

SCOPE OF WORK

INSTALLATION OF EXHAUST FAN FOR FORKLIFT BATTERY CHARGING AREA AND ASSOCIATED

- THIS DESIGN MAY BE USED FOR SECURING PERMITS, BID, PLANNING, THE COMPANY'S REVIEW OR SOME OTHER GOA
- DIAGRAMMATIC REPRESENTATION OF INTENDENT SCOPE OF WORK THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR
- ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
- SAFETY CODE, LOCAL BUILDING CODE, OSHA REGULATIONS, OCAL, STATE, FEDERAL AND AUTHORITY HAVING JURISDICTION CODES APPLICABLE AT THE TIME OF THE CONSTRUCTION. GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA I STANDARD FOR COMPLIANCE WITH ELECTRICAL CODE AND MANUFACTURER INSTALLATION REQUIREMENTS.
- . ALL MATERIALS PROVIDED BY THE CONTRACTOR SHALL BE NEW AND FREE OF DEFECTS, LISTED/LABELED FOR THE INTENDED PURPOSE BY UNDERWRITERS (UL) OR OTHER ORGANIZATION THAT IS ACCEPTABLE TO THE AHJ.
- THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS ARE INTENDED TO DESCRIBE AND ILLUSTRATE SYSTEMS WHICH WILL NOT INTERFERE WITH THE STRUCTURE OF THE BUILDING AND WHICH WILL FIT INTO THE AVAILABLE SPACES.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE WITH DRAWINGS OF OTHER TRADES TO FIT THE ACTUAL SPACE CONDITIONS, HEADROOM AND SPACE CONDITION TO BE MAINTAINED. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATION
- D. UPON THE COMPLETION OF THE WORK, THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEM READY FOR OPERATION AND INSPECTION
- TEST AND INSPECT ALL WIRING AND EQUIPMENT INSTALLED UNDER THIS SECTION OF SPECIFICATIONS. ALL WIRING MUST
- WORKING CONDITIONS. 12. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE CORRECT PHASE SEQUENCE OF ALL THREE-PHASE FEEDERS
- AND INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. 4. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGELS TO WALLS AND CEILINGS. CONDUIT SHALL BE
- SUPPORTED BY APPROVED MEANS. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A DRAG WIRE. 15. PROVIDE CONDUIT EXPANSION FITTINGS WITH BONDING JUMPERS FOR ALL CONDUITS PASSING THROUGH EXPANSION
- 16. THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE

GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE

- FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH SHALL BE 6'-O". . FLEXIBLE CONDUIT INSTALLED OUT OF DOORS, IN ANY MECHANICAL EQUIPMENT ROOMS, OR IN NORMALLY WET AREAS SHALL BE LIQUID TIGHT FLEX WITH SUITABLE FITTINGS.
- 18. PROVIDE CONDUIT, WIRING, CIRCUITING AND REQUIRED CONNECTIONS TO ALL, DEVICES, FIXTURES AND EQUIPMENT. CONNECT TO CIRCUITS AS INDICATED. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD AND PEEL ECTED IN THE BALL OF CONTROL OF CONTR
- NUMBERS SHALL BE DETERMINED IN THE FIELD AND REFLECTED IN THE PANEL SCHEDULE DIRECTORY AND ON THE
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL MOUNTING HEIGHTS OF ALL DEVICES MOUNTED IN CASEWORK OR IN ABOVE COUNTERS WITH EXISTING EQUIPMENT.
- 20 JNI ESS SPECIFICALLY DIRECTED OTHERWISE FIRNISH AND INSTALL FACH AND EVERY ITEM CONTAINED IN AND ASSOCIATED WITH, THE WORK INVOLVED AS SHOWN ON THE DRAWINGS AND/OR DESCRIBED IN THE ACCOMPANYING SPECIFICATIONS, TOGETHER WITH ALL APPURTENANCES, COMPONENTS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. CONTRACTOR SHALL PROVIDE CONDUIT, WIRING AND CABLING TO ALL DEVICES, FIXTURES AND ETC. FOR
- A COMPLETE WORKING SYSTEM BASED ON THE CIRCUITS NOTED 21. PROVIDE INDEPENDENT SUPPORT FOR DISCONNECT SWITCHES, CONTROL STATIONS, BOXES, PANELS, ETC. WHERE NO
- WALLS OR OTHER STRUCTURAL SURFACE EXISTS.
- 22. EQUIPMENT SIZED AND LOCATIONS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED BY EQUIPMENT
- 23. PROVIDE BRANCH CIRCUIT WIRING TO ALL ITEMS REQUIRING ELECTRICAL CONNECTIONS, WHERE BRANCH CIRCUIT WIRING IS NOT SHOWN, CONNECT ITEMS TO CIRCUITS INDICATED. THE CONTRACTOR SHALL DETERMINE EXACT ROUTING OF CONDUITS AND WIRING. UNLESS INDICATED OTHERWISE, ALL BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG.
- 24. PROVIDE JUNCTION BOX FOR ANY DEVICE WITH PIG TAIL SUCH AS SOLENOID VALVES, LIMIT SWITCHES, SMOKE DETECTORS AND ETC. FOR PROPER ELECTRICAL CONNECTION. PROVIDE ALL HARDWARE FOR MOUNTING OF JUNCTION
- 25. EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS, COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS.
- 26. WHEREVER THE INSTALLATION OF ELECTRICAL EQUIPMENT AS SHOWN ON THE DRAWINGS IS IMPRACTICAL DUE TO LOCAL INTERFERENCE OR UNFORESEEN FIELD CONDITIONS, THE CONTRACTOR SHALL INSTALL THE EQUIPMENT AT NEW LOCATIONS AS DIRECTED BY THE ENGINEER.

THIS DESIGN DOES NOT GUARANTEE THESE APPROVALS, NOR ARE THESE APPROVALS A REQUIREMENT FOR SERVICES 27. DESIGN IS BASED ON ALL CONDUCTORS TO BE THIN COPPER AND NO MORE THAN 4 CURRENT CARRYING CONDUCTORS IN THE SAME RACEWAY OR CONDUIT, UNLESS OTHERWISE NOTED.

- THIS DESIGN IS NOT A COMPLETE SET OF CONSTRUCTION DRAWING OR SHOP DRAWINGS. THIS DESIGN REPRESENTS 28. WHEN EQUIPMENT IS BEING REMOVED/DEMO FROM THE FIELD, ALL WIRING ASSOCIATED WITH THE LOAD MUST BE REMOVED FROM THE JUNCTION BOX OR THE CIRCUIT BREAKER, DO NOT LEAVE UNUSED CONDUCTORS IN THE FIELD
- SENERAL USE ON ALL PROJECTS, THEREFORE, NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST 29. PROVIDE DISCONNECT SWITCHES FOR ELECTRICAL HEATER, HVAC EQUIPMENT AND EXHAUST FANS WITHIN EYE SIGHT OF
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE NATIONAL ELECTRICAL CODE, IECC, LIFE 30. PROVIDE SERVICE RECEPTACLE WITHIN 25 FEET OF EACH HVAC EQUIPMENT. 31. ELECTRICAL CONTRACTOR TO VERIFY ACTUAL INSTALLED EQUIPMENT ELECTRICAL NAME PLATE DATA BEFORE NERGIZING THE CIRCUIT. CONFIRM ELECTRICAL DESIGN VALUES AND ACTUAL EQUIPMENT BEING INSTALLED ARE IN
 - 32. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MADE, QUICK-BREAK TYPE, NEMA I ENCLOSURE FOR INDOOR LOCATIONS (NEMA 3R FOR OUTDOOR LOCATIONS). SWITCHES SHALL BE AS MANUFACTURED BY SQUARE 'D', GENERAL ELECTRIC, OR SIEMENS (I.T.E.). PROVIDE FUSES AS MANUFACTURED BY BUSSMAN, GOULD-SHAWMUT, OR LITTLE-FUSE. LL CONDUCTOR TERMINALS TO BE U.L, LISTED FOR A MINIMUM OF 75°C. SWITCHES USED AS SERVICE ENTRANCE PMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR CAREFULLY LAYING OUT ALL WORK TO CONFORM TO NATIONAL ELECTRICAL 33. PANEL BOARDS SHALL BE MANUFACTURED BY SQUARE-D, EATON, GENERAL ELECTRIC, OR SIMILAR, MEETING U.L. CODE CLEARANCES, ARCHITECTURAL, STRUCTURAL, MECHANICAL AND SITE CONDITIONS, TO AVOID OBSTRUCTIONS AND STANDARDS 50 AND 67, WITH V.L. LABEL. PANELS USED AS SERVICE ENTRANCE EQUIPMENT TO BE V.L. LISTED AS "SER"
 - 34. BREAKERS: THERMAL, MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, PLUG-IN TYPE FOR LOAD CENTERS AND BOLT IN TYPE FOR PANEL BOARDS AND SINGLE UNIT CONSTRUCTION, TWO POLE BREAKERS SHALL BE SINGLE UNIT COMMON. TRIP TYPE. BREAKERS USED AS SWITCHES FOR IZOV LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD". ALL BREAKERS FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACR" RATED BREAKERS
 - 35. GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANEL BOARDS AND SYSTEM NEUTRAL CONDUCTORS, MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND OF AMPS SHALL BE APPROVED TYPE SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZED AND INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
- BE FREE SHORTS AND BROKEN WIRE. LEAVE ALL MATERIALS AND APPARATUS IN PROPER AND SATISFACTORY 36. CONDUIT SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED PER NEC. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE, MINIMUM 3/4". PROVIDE ELECTRICAL METAL TUBING (EMT) MEETING FS W-C563, FLEXIBLE METAL CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR INSTALLED IN ACCORDANCE WITH N.E.C., AND CAN NOT BE SUPPORTED FROM CEILING SUPPORT WIRES.
- 3. CONDUIT RUNS WHEN SHOWN ARE DIAGRAMMATICAL. FINAL LOCATION AND ROUTING SHALL BE ESTABLISHED BY THE 37. ALL CONDUIT AND RACEWAY SYSTEMS TO BE INSTALLED WITH SEPARATE GROUND CONDUCTOR. CONDUIT SYSTEM IS CONTRACTOR BASED ON THE INSTALLATION CONDITIONS AND SHALL BE VERIFIED IN THE FIELD. ALL CONDUIT TYPES NOT TO BE USED AS THE SOLE GROUNDING MEANS
 - CONDUCTORS: INSULATED SOFT ANNEALED 98% PURE COPPER WITH COLOR CODING, B AND S GAGE, #10 AND SMALLER TO BE SOLID. #8 AND LARGER TO BE STRANDED. MINIMUM #12 UNLESS OTHERWISE INDICATED. CONDUCTORS MAY NOT BE USED UNDERGROUND, AT SERVICE ENTRANCE, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE

	"IO / IID "IZ:	1117 11 01 1111111
	#8 TO 4/0:	THWN OR THHN
	SERVICE ENTRANCE:	SE-RHW OR USE-RHW
	OVER #4/O ORDINARY SERVICE:	THHN OR XHHN
	OVER #4/0 WET OR HOT SERVICE:	XHHW
	WIRE THRU FLUORESCENT FIXTURES	
	OR WHITHIN OF HTG EQIP.:	THHN
LI	WIRING TO BE COLOR-CODED AS FOLLOWS:	
	120/208 VOLT SYSTEM	277/480 SYSTEM
	NEUTRAL: WHITE	PHASE A: BROWN

- PHASE A OR LI: BLACK PHASE B: ORANGE PHASE B OR L2: RED PHASE C OR L3: BLUE PHASE C: YELLOW NEUTRAL: GRAY GROUND: GREEN 39. WIRE CONNECTORS SHALL BE EQUAL TO "SCOTCH LOCK" FOR #8 AWG WIRE AND SMALLER AND EQUAL TO T & B
- "LOCK TIGHT" FOR #6 AWG AND LARGER. 40. LIGHT FIXTURES & LAMPS ARE FURNISHED BY CONTRACTOR EXCEPT AS NOTED ON THE LIGHT FIXTURE SCHEDULE. FIXTURE INSTALLATION SHALL BE BY THE ELECTRICAL CONTRACTOR ACCORDING TO LOCAL CODE AUTHORITY.
- 41. EMERGENCY LIGHTING SHALL HAVE A MINIMUM OF 90 MIN. BATTERY BACK-UP, OR AS REQUIRED BY LOCAL CODE AUTHORITY. PROVIDE LOCK-ON CIRCUIT BREAKERS FOR CIRCUITS SERVING EXIT SIGN FIXTURES AND EMERGENCY
- 42. LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE SIZE IF 100 FEET OF LENGTH IS EXCEEDED. 43. CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILINGS OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE.
- NSTALL CONDUITS PARALLEL TO BUILDING LINES, AND TO CLEAR ALL OPENING, DEPRESSIONS, PIPES, DUCTS, 44. INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90 DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT

FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES, REAM CONDUIT ENDS BEFORE INSTALLATION AND

TERMINALS ON SMITCHES AND OUTLET SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SMITCH OR OUTLET.

THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT CLEAN.

STANDARD ABBREVIATIONS

ATS AMG BKR C CB CCTV CKT CL CLG CNTL CPT CT CJ D DIA DISC DN	AMPERE ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ARC FLASH INTERRUPTER ARC FLASH CIRCUIT INTERRUPTER IMMETRICAL AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE BREAKER CONDUIT CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CIRCUIT CENTER LINE CEILING CONTROL CONTROL CONTROL POWER TRANSFORMER CUPPER DEMOLISH DIAMETER DISCONNECT DOWN	DWG E.C. EL ELEC EQUIPEQUI EXIST (e) FA FBO FDR FIXT FL G G.C. GEN GFCI HID HOA HP IC I/O JB	DRAWING ELECTRICAL CONTRACTOR ELEVATION ELECTRICAL IPMENT EXISTING FIRE ALARM FURNISHED BY OTHER FEEDER FIXTURE FLOOR GROUND GENERAL CONTRACTOR GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INTERRUPTER HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC HORSE POWER INTERRUPTING CAPACITY INPUT / OUTPUT JUNCTION BOX	KY A KWH LCP LIS P G MA ACC S MDN MSB MTS A CC NO NTS P H II	KILOVOLT KILOVOLT AMPERE KILOWATT KILOWATT HOUR LOCAL CONTROL PANEL LOAD INTERRUPTER SWITCH LIGHTING PANEL LIGHTING MAXIMUM MOTOR CONTROL CENTER MOLDED CASE SWITCH MAIN DISTRIBUTION PANEL MINIMUM MAIN SWITCHBOARD MAIN SWITCHGEAR MANUAL TRANSFER SWITCH NON-AUTOMATIC NORMALLY CLOSED NATIONAL ELECTRIC CODE NORMALLY OPEN NOT TO SCALE POLE PHASE	SWGRSWITEL TYP U/G U.O.N. UNLE V VA VFD W WHM WAT WIP	POTENTIAL TRANSFORMER POWER PANEL POWER RECEPTACLE REVISION SHIELDED CABLE SPARE SURGE SUPRESSION TCHBOARD TCHGEAR SYMMETRICAL TELEPHONE TYPICAL UNDERGROUND ESS OTHERWISE NOTED VOLT OR VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WATTS IT HOUR METER WEATHERPROOF WIREWAY WASFORMER
				PH PNL			

SYMBOL LEGEND ELECTRICAL EQUIPMENT DISTRIBUTION EQUIPMENT TYPICAL FOR ALL LIGHTING FIXTURES: I. CAPITAL LETTER DENOTES FIXTURE TYPE. 2. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION, TYPE, AND FOR ALL DISTRIBUTION EQUIPMENT. TYPICAL FOR ALL RECEPTACLES, OUTLETS, JUNCTION BOXES AND GROUND FAULT PROTECTION SHUNT TRIP EQUIPMENT: NUMBER DENOTES PANEL CIRCUIT NUMBER LONG TIME, SHORT TIME INSTANTANEOUS AND ARC FAULT CIRCUIT INTERRUPTER 3. NUMBER DENOTES BRANCH CIRCUIT NUMBER AT RESPECTIVE GROUND FAULT PROTECTION FUNCTIONS GROUND FAULT INTERRUPTER SURGE SUPPRESSION TYPE LIGHTING PANELBOARD. LOWER CASE LETTER DENOTES 100% RATED EQUIPMENT. SWITCHED CIRCUIT. ISOLATED GROUND TYPE DUPLEX RECEPTACLE TYPICAL LIGHTING FIXTURE ELECTRIC OPERATED DEVICE SWITCHED DUPI FX RECEPTAGLE - ONE OUTLET SWITCHED LOWER CASE LETTER DENOTES SWITCH SINGLE POLE SWITCH ELECTRONIC TRIP TYPE DEVICE DOUBLE DUPLEX RECEPTACLE DOUBLE POLE SWITCH CIRCUIT BREAKER SINGLE RECEPTACLE THREE-WAY SWITCH THERMAL MAGNETIC CIRCUIT BREAKER TOP SPECIAL RECEPTACLE AMPERE AND VOLTAGE NUMBER DENOTES FRAME SIZE AMPERE RATING FOUR-WAY SWITCH P - DENOTES NUMBER OF POLES SURFACE RACEWAY WITH RECEPTACLES, AS SINGLE POLE KEY SWITCH INDICATED ON DRAWINGS CIRCUIT BREAKER WITH ELECTRONIC TRIP PROGRAMMER. TOP NUMBER INDICATES FRAME DOUBLE DUPLEX RECEPTACLE - FLOOR MOUNTED THREE WAY KEY SWITCH RATING. #P - DENOTES NUMBER OF POLES DUPLEX RECEPTACLE - FLOOR MOUNTED SINGLE POLE SWITCH WITH PILOT LIGHT DRAW-OUT TYPE THERMAL MAGNETIC CIRCUIT SPECIAL RECEPTACLE - FLOOR MOUNTED DIMMING SWITCH RATING BOTTOM NUMBER DENOTES FRAME SIZE AMP RATING #P - DENOTES NUMBER OF POLES CEILING MOUNTED DUPLEX RECEPTACLE OCCUPANCY SENSOR TYPE SWITCH PNL J 22 REC FLOOR JUNCTION BOX THREE WAY DIMMING SWITCH MEDIUM VOI TAGE DRAW-OUT CIRCUIT BREAKER TOP NUMBER DENOTES TRIP SIZE AMPERE RATING MANUAL MOTOR TOGGLE TYPE STARTER WITH BOTTOM NUMBER DENOTES FRAME SIZE AMP WALL MOUNTED JUNCTION BOX RATING #P - DENOTES NUMBER OF POLES INTEGRAL THERMAL OVERLOAD HEATER JUNCTION BOX, SIZE AND MOUNT AS REQUIRED EMERGENCY LIGHTING DRAW-OUT MCC FYNR CIRCUIT BREAKER COMBINATION STARTER TOP NUMBER DENOTES TRIP SIZE AMPERE RATING MCP DENOTES MOTOR ELECTRICAL OR TELEPHONE MANHOLE EMERGENCY LIGHTING WITH EXIT SIGN CIRCUIT PROTECTOR SIZE N# - DENOTES NEMA STARTER SIZE ELECTRICAL OR TELEPHONE HANDHOLE #P - DENOTES NUMBER OF POLES TERMINAL BOX. SIZE IN ACCORDANCE WITH NEC REQUIREMENTS AND TO ACCOMMODATE ALL MOTION SENSOR TERMINAL BLOCKS. DRAW-OUT FUSED SWITCH TOP NUMBER DENOTES PULL BOX. SIZE IN ACCORDANCE WITH NEC SWITCH AMPERE RATING BOTTOM NUMBER DENOTES FUSE AMPERE RATING PHOTOCELL #P - DENOTES NUMBER OF POLES SURFACE PANELBOARD LETTERS & NUMERALS OCCUPANCY SENSOR INDICATE EQUIPMENT TAG RECESSED PANELBOARD LETTERS & NUMERALS TIME CLOCK FUSED MEDIUM VOLTAGE DRAW OUT STARTER TOP NUMBER DENOTES FUSE AMPERE RATING N# -DENOTES NEMA STARTER SIZE NUMBER DENOTES CONTACTOR IDENTIFICATION TAG. ELECTRICAL PANEL LETTERS AND NUMBERS #P - DENOTES NUMBER OF POLES INDICATE PANELBOARD IDENTIFICATION TAG SEE SEE CONTACTOR SCHEDULE FOR NUMBER OF POLES PANEL SCHEDULE FOR DETAILS. AND DETAILS. GENERATOR REMOTE UNFUSED DISCONNECT SWITCH. NUMBER DENOTES SWITCH AMPERE HOMERUN CIRCUITS TO PANELBOARD. #P - DENOTES NUMBER OF POLES NUMBER OF ARROWS INDICATES NUMBER OF PADDLE FAN PI-5,7,9 CIRCUIT HOMERUNS. I PH 120V GENERATION & GROUNDING FIRST NUMBER DENOTES SWITCH AMPERE RATING BOTTOM OR LOCK FOR RESPECTIVE KEY FEEDER TAG WITH CONDUIT AND WIRE SIZE AND KEY CAPTIVE IN LOCK 3P OR SECOND NUMBER DENOTES AMPERE FUSE RATING #P - DENOTES NUMBER OF POLES LOCK FOR RESPEC INDICATES NEW OR EXISTING EQUIPMENT/CONDUIT MEDIUM VOLTAGE UNFUSED LOAD INTERRUPTER SWITCH NUMBER DENOTES SWITCH AMPERE INDICATES CONCEALED NEW OR EXISTING #P - DENOTES NUMBER OF POLES INDICATES EXISTING EQUIPMENT/CONDUIT TO BE TI FR JOLTMETER SWITCH DEMOLISHED AND/OR REMOVED MEDIUM VOLTAGE FUSED LOAD INTERRUPTER RATING BOTTOM NUMBER DENOTES FUSE AMPERE RATING #P - DENOTES NUMBER OF POLES UTILITY COMPANY METER AND METER PAN AS FLEXIBLE CONNECTION MAGNETIC MOTOR STARTER WITH THERMAL CONDUIT TURNING DOWN SURGE PROTECTOR DEVICE MAGNETIC MOTOR STARTER CONTACTOR CAPPED CONDUIT HARMONIC FILTER COMBINATION MAGNETIC MOTOR STARTER WITH DISCONNECT SWITCH. CABLE TRAY (LADDER STYLE) NUME N# - DENOTES NEMA STARTER SIZE WIDTH IN INCHES POWER FACTOR CORRECTION CAPACITOR CURRENT TRANSFORMER (CT) NUMBER RATIO DENOTES CT PRIMARY AND SECONDARY CURRENT RATINGS NUMBER IN PARENTHESIS INDICATES QUANTITY LINE REACTOR POTENTIAL TRANSFORMER WITH PRIMARY AND **-**WV--RESISTOR -□-}⊱-□-ENCLOSED CIRCUIT BREAKER TOP OR FIRST NUMBER DENOTES SWITCH AMPERE RATING BOTTOM OR **GENERATOR** SECOND NUMBER DENOTES FUSE AMPERE RATING #P -DENOTES NUMBER OF POLES MEDIUM VOLTAGE CABLE STRESS CONNECTION ENCLOSED CIRCUIT BREAKER/COMBINATION EVNR DATA SYSTEM SYSTEM OUTLET BOX, WITH 3/4" STARTER TOP NUMBER DENOTES MOTOR CIRCUIT 600 VOLT CABLE LIMITER CONNECTION CONDUIT SUB UP ABOVE HUNG CEILING PROTECTOR CONTINUOUS AMPERE RATING N# WITH DRAG LINE AND BUSHED ENDS DENOTES NEMA STARTER SIZE. #P - DENOTES NUMBER OF POLES CONDUIT SUB UP ABOVE HUNG CEILING WITH DRAG LINE AND BUSHED ENDS LIGHTNING ARRESTER. NUMBER IN PARENTHESIS INDICATES QUANTITY CONDUIT STUB UP ABOVE HUNG CEILING WITH DRAG LINE AND BUSHED ENDS ENCLOSED CT CABINET DATA OUTLET BOX - FLOOR MOUNTED GROUNDED MYE CONNECTION TELE OUTLET BOX - FLOOR MOUNTED RELAY, NUMBER (5) DENOTE ANSI DEVICE FUNCTION NUMBER. UNGROUNDED MYE CONNECTION COMBINATION TELEPHONE/DATA OUTLET FLOOR OPEN DELTA CONNECTION TELEPHONE POKE THRU DATA POKE THRU DELTA CONNECTION TELEPHONE / DATA POKE THRU TELEPHONE/DATA TERMINAL BOARD. AUTOMATIC TRANSFER SWITCH WITH 3/4" x 4' x 6' PLYWOOD FASTENED TO THE BYPASS ISOLATION WALL WITH 3/4" CHANNEL. GROUND TEST ELECTRODE

GROUND ROD

SIZE AS NOTED OR INDICATED.

SIZE AS NOTED OR INDICATED

GROUND CONNECTION

GROUND GRID CABLE CONNECTION

BUILDING GROUND SYSTEM BARE CABLE

TRANSFORMER SIZE AS NOTED WITH

PACKAGED EQUIPMENT WITH DISCONNECT SWITCH

INDICATED

— G —



SEAL & SIGNATURE:



NO ALTERATION PERMITTED **EXCEPT AS PROVIDED UNDER** DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

O 12/04/2020 ISSUED FOR PERMIT APPLICATION \ REV. DATE DESCRIPTION CLIENT:

PROJECT:

BATTERY FAN

ADDRESS:

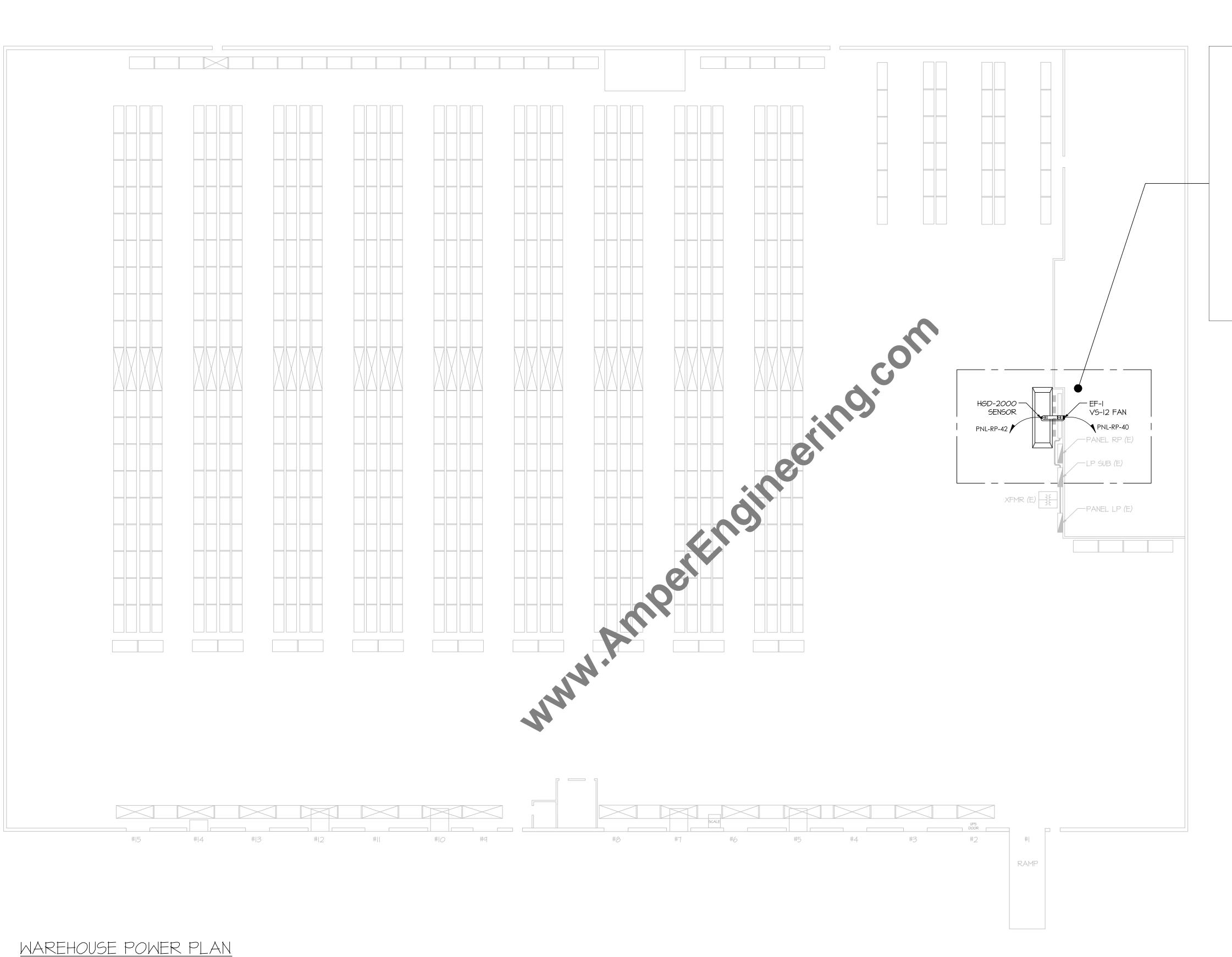
ISSUE DATE:

CINNAMINSON NJ 08077

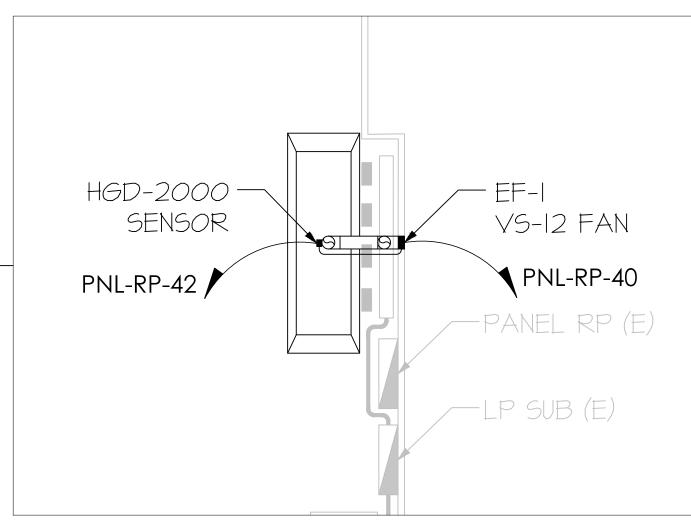
12/04/2020 PROJECT NUMBER: AE# 1239 DRAWN BY: SCALE: DEE NONE DESIGNED BY: CHECKED BY:

DRAWING TITLE: ELECTRICAL COVER SHEET, GENERAL NOTES AND SYMBOL LEGEND

REVISION:



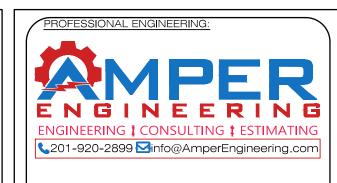
SCALE: 1/16" = 1' -0"



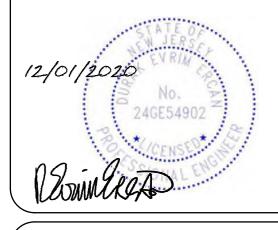
ENLARGE PLAN SCALE: 1/8" = 1' -0"

NOTES:

- I. NEW EXHAUST FAN VS-12 AND HYDROGEN GAS DETECTOR WIRING TO ROUTE THROUGH EXISTING PANEL-RP.
- 2. NEW EXHAUST FAN VS-12 TO BE 120 VAC AND COMPLIANT WITH NEC 501, CLASS I, DIVISION II GROUP B.
- 3. SEE DRAWING E200 FOR HYDROGEN GAS DETECTOR WIRING DIAGRAM.
- 4. SEE DRAWING MIOI & MIO3 FOR DETAILS.
- 5. SEE DRAWING MIO2 FOR EQUIPMENT CUT SHEET.



SEAL & SIGNATURE:



NO ALTERATION PERMITTED EXCEPT AS PROVIDED UNDER DIRECTION OF A LICENSED

PROFESSIONAL ENGINEER.

O 12/04/2020 ISSUED FOR PERMIT APPLICATION
REV. DATE DESCRIPTION

CLIENT:

PROJECT:

BATTERY FAN

ADDRESS:

CINNAMINSON NJ 08077

ISSUE DATE:
|2/04/2020
| PROJECT NUMBER:
|AE# |239|
| SCALE: | DRAWN BY:
|NONE | DEE |
|DEE | DEE |

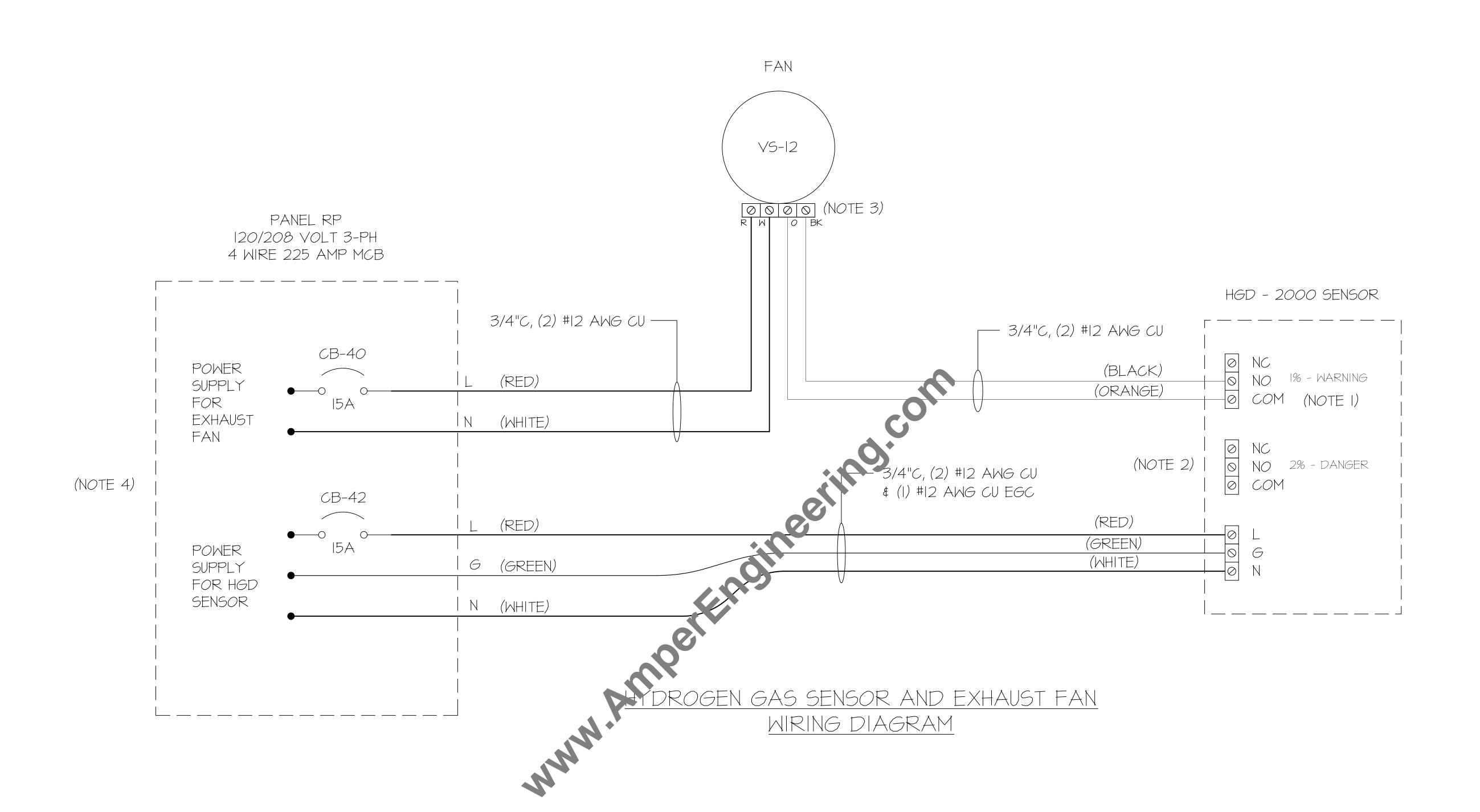
DRAWING TITLE:
WAREHOUSE
POWER PLAN

DRAWING NO:

E101

0

REVISION:



NOTES:

- I. WHEN HYDROGEN GAS REACHES AT 1% BY VOLUME, THE YELLOW LED WILL LID AND 1% RELAY WILL CLOSE AND ACTIVATE VS-12 FAN.
- 2. WHEN HYDROGEN GAS REACHES AT 2% BY VOLUME, THE RED LIGHT WILL FLASH AND INTERNAL 80dB INTERNAL ALARM WILL SOUND AND 2% RELAY CONTACTS WILL CLOSE. THE 2% RELAY CONTACTS MIGHT SERVE FOR AN ADDITIONAL SIGNAL TOO.
- 3. THE CONTRACTOR SHALL VERIFY ON THE FIELD THE VS-12 POWER AND CONTROL CONNECTIONS INCLUDING CONDUIT AND JUNCTION BOXES.
- 4. CONTRACTOR TO VERIFY THE AVAILABILITY CIRCUIT 40 & 42 RESPECTIVELY AND PROVIDE (2) 15A BREAKER.

PROFESSIONAL ENGINEERING:

PROFESSIONAL ENGINEER

SEAL & SIGNATURE:

12/01/2020 Romales

NO ALTERATION PERMITTED EXCEPT AS PROVIDED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

O 12/04/2020 ISSUED FOR PERMIT APPLICATION
REV. DATE DESCRIPTION

PROJECT:

| BATTERY FAN

ADDRESS:

CINNAMINSON NJ 08077

ISSUE DATE:
|2/04/2020
| PROJECT NUMBER:
|AE# |239|
| SCALE: | DRAWN BY:
|NONE | DEE |
|DEE | DEE |
|DEE | DEE

DRAWING TITLE:
HYDROGEN GAS SENSOR
AND EXHAUST FAN
WIRING DIAGRAM

DRAWING N

E200

0

REVISION: