

- 1. SIZE OF CONDUCTORS SHALL COMPLY W/CEC.A
- 2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC)
- 3. ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION

SCALE: 1-1/2" = 1' - 0'

| VOLTS:120/240 SINGLE PHASE | | | | | | PANEL: "A" | | | | | | | | | FEED: INTERIOR | | | | | |
|------------------------------------|------------------------|-----|---------|---|--------------------------------|--------------------|--------------|---------------|------------------|-----------|------|-------|-----|-----------------|--------------------|------|-----------------------------|---|--|---|
| MAIN: 125 AMP MAIN BKR. | | | | | | LOCATION: INTERIOR | | | | | | | | | MOUNTING: RECESSED | | | | | |
| | WATTS | | BR | | Ç | Т | <u></u> А | Т- | В | Ç | BRK. | | | WATTS | | | | | | |
| LOAD | Α | В | AMP | P | R | | · · | - | | R | P | AMP | Α | | В | LOAD | | | | |
| RECEPTACLE | 360 | | 20 | 1 | 1 | - | • | $\frac{1}{1}$ | | 2 | | 20 | 54 | 0 | | RE(| CEF | PTAC | LE | |
| RECEPTACLE | | 540 | 20 | 1 | 3 |]- | +- | -4 |) | 4 | | 20 | | | 1080 | RE(| CEF | 'TAC | LE | |
| INTERIOR LIGHTS | 352 | | 20 | 1 | 5 |]- | • | + | | 6 | 2 | 90 86 | | 40 | | HVAC | | | | |
| GFCI | | 360 | 20 | 1 | 7 | - | + | - |) | 8 | | | | | 8640 HVAC | | lenderspierne, delegantiska | unisagent-durante | | |
| EXTERIOR LIGHTS | 100 | | | | 9 | } | • | + | | 10 | | | | | | | | - Circles on Particularity | the second section of | unceron addition |
| | | | | | 11 | ig | - | + |) | 12 | | | | | | | | #****************** | et destructures de la constante de la constant | ntergonarionalism |
| SPACE | | | | | 13 | | • | - | | 14 | | | | | | | | *************************************** | gyrasina, ny | W-4 |
| | we was a los with ever | | | | 15 | - | - | + • |) | 16 | | | | | | | | | | ***** |
| | | | | | 17 | <u>'</u> - | • | + | | 18 | | | | | | | | | toperen arrivan | |
| | | | | | 19 | | + | + |) | 20 | | | | | | | | | Management | Marin Marine |
| | | | | | 21 | 7 | • | | | 22 | | | | | | | | ************************************** | BANG-0000-000 | reason esten |
| | | | | | 23 | | + | 1 |) | 24 | | | | | | | | NO ALONGO A CONTROL | | *************************************** |
| PHASE WATTAGE 812 900 | | | | | | | | | | | | | L | O PHASE WATTAGE | | | | | | |
| TOTAL WATTS "A" LE | | _ \ | WATTS A | | | | | ,,_ | | TOTAL WAT | | - | | - | | | ************ | | | |
| TOTAL WATTS = 20612 | | | | | AMPS 120/240V SINGLE PHASE 125 | | | | | | | 25 | AMP | BUS | 3. | | | | | |
| FEEDERS: TO BE RUN BY THE DISTRICT | | | | | | | | | | | | | | | | | | | | |

EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

NOT USED

| VOLTS:120/240 SINGLE PHASE | | | | | | PANEL: "B" | | | | | | | | | FEED: INTERIOR | | | | |
|---|--|-------|-----|-------|---|------------|----------|---|----------|------------|------|-----|---|-------------------|----------------|--|----------|--|--|
| MAIN: 125 AMP MAIN BKR. | | | | | | -00 | :ATI | ON | : 11 | VTE | RIC |)R | | MOUNTING: SURFACE | | | | | |
| LOAD | | WATTS | | BRK. | | Ç | Α | | В | <u>-</u> ر | BRK. | | ١ | WATTS | | 1 🔿 🐧 | \Box | | |
| | | Α | В | AMP I | | Ŕ | Т | + | Т | Ŕ | Р | AMP | Α | 4 B | | LOAD | | | |
| INTERIC | OR LIGHTS | 264 | | 20 | 1 | 1 | - | - | - | 2 | | 20 | 20 | 0 | | EXTERIO | R LIGHTS | | |
| GFCI | | | 360 | 20 | 1 | 3 | | | • | 4 | | 20 | | | 1500 | HAND [| DRYERS | | |
| HAND | DRYERS | 1500 | | 20 | 1 | 5 | - | | - | 6 | | 20 | 18 | 80 | | INTERIOF | R LIGHTS | | |
| WATER | ATER HEATER 1500 | | 30 | 2 | 7 | \vdash | _ | • | 8 | | | | | | SPA | ÇE | | | |
| | gaaring karanishipinish karealarnish (lisalishi dhibidishi dhi Anna al-Anna al | 1500 | | | | 9 | - | - | + | 10 | | | | | | | | | |
| SPĄCE | | | | | | 11 | | - delication of the second of | • | 12 | | | | | | ang ding pipakaja kan nagang ang dininang dinang dinang dinang kangang dinang dinang dinang dinang dinang dinang | | | |
| | | | | | | 13 | - | + | - | 14 | | | | | | | | | |
| | adding an account from the device of the control of | | *** | | | 15 | | - | • | 16 | | | | | | - National Assistant | | | |
| | | | | | | 17 | - | - | - | 18 | | | | | | | | | |
| | | | | | | 19 | \vdash | + | • | 20 | | | | | | | | | |
| | | | | | | 21 | - | - | + | 22 | | | *************************************** | | | and the second s | | | |
| V / | | | | | | 23 | | - | • | 24 | | | | | | | | | |
| PHASE WATTAGE 3264 1860 | | | | | | | | | | | | | 380 1500 PHASE WATT | | | | | | |
| TOTAL WATTS "A" LEG = 3644 TOTAL WATTS A+B= 7004 TOTAL WATTS "B" LEG = 3360 | | | | | | | | | | | | | | | | | | | |
| TOTAL WATTS = 7004 30 AMPS 120/240V SINGLE PHASE 125 AMP BUS. | | | | | | | | | | | | | | | | | | | |
| FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN. | | | | | | | | | | | | | | | | | | | |

FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

FIRE ALARM SYSTEM

- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE. CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
- 4. JUNCTION BOXES GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN
- COVERS INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT

EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.

ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.

- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2013 EDITION OF NFPA 72.
- THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
- 8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
- THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
- 10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 CHAPTER 26 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

GENERAL NOTES

- 1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
- 2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
- 3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

FIXTURE NOTES:

- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
- 2. LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
- 3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER
- 4. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
- MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
- 6. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
- 7. 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125
- 8. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
- 9. CLOCK 12" DIAL CLOCK ON CLOCK OUTLET.
- A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
- C. IF 60 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

American Modular Systems

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americanmodular.com

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PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40' 2:12 PITCHED ROOF

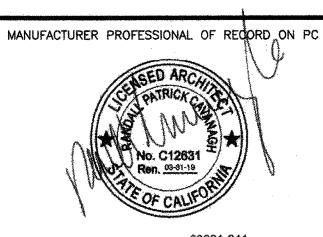
SITE SPECIFIC PROJECT NAME

STOCKPILE

(1) 60x40 BUILDING (1) 72x40 BUILDING

SHEET TITLE

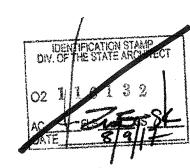
ELECTRICAL NOTES & DETAILS



AGENCY TRACKING NO. 63321-241

FILE NO. 15-6 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 03-118380 AC / FLS PC SS CL DATE OCT 2 5 2017

PROJECT SPECIFIC STATE AGENCY APPROVAL



ORIGINAL PC STATE AGENCY APPROVAL

BASED ON PC# 02-113939 PRE-CHECK (PC) DOCUMENT - CODE: 2013 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

| | REVISIONS | |
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| DRAWN BY: | BA | |
| SCALE: | AS NOTED | |
| DATE: | 04/27/17 | |
| | SHEET NUMBER | |

GENERAL NOTES