POWER 20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLE. SEE GENERAL NOTE 4. ARLINGTON MODEL GP19B-BLACK GARD-N-POST SUPPORT WITH GFI RECEPTACLE AND LOCKING WEATHERPROOF COVER. STANDARD STEEL JUNCTION BOX WITH COVER IN AN ACCESSIBLE LOCATION. LOCATE AND CONNECT AS DIRECTED. IN-GROUND MOUNTED JUNCTION BOX.

SEE DETAIL. LIGHTING AND APPLIANCE PANEL BOARD - FLUSH MOUNTED REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS. LIGHTING AND APPLIANCE PANEL BOARD - SURFACE MOUNTED REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS. MOTOR FURNISHED AND INSTALLED BY OTHERS, WIRED BY

ELECTRICAL CONTRACTOR. CONNECT AS DIRECTED BY MOTOR SUPPLIER. SINGLE POLE SWITCH. MOUNT AT 44" AFF TO CENTERLINE

UNLESS NOTED OTHERWISE.

TIME CLOCK. REFER TO DRAWINGS FOR DETAILS.

PHOTOCELL. REFER TO DRAWINGS FOR DETAILS.

NON-FUSIBLE DISCONNECT SWITCH, HEAVY DUTY TYPE.

ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONCEALED BRANCH CIRCUIT HOMERUN. FOR NORMAL BRANCH CIRCUIT WIRING CONTRACTOR MAY COMBINE UP TO THREE CIRCUITS IN ONE RACEWAY. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

RACEWAY AND CONDUCTORS CONCEALED ABOVE CEILING OR

IN WALL AT ELECTRICAL CONTRACTOR'S OPTION. #12 AWG

MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL

EMERGENCY POWER SYSTEM CONDUIT AND WIRING. #12 AWG

MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL

RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING

RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING

CONDUIT BELOW FLOOR OR UNDERGROUND. DEPTH OF

UNDERGROUND CONDUITS SHALL BE PER NEC.

EXISTING CONDUIT OR BRANCH CIRCUIT TO REMAIN.

SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

FLEXIBLE METAL CONDUIT OR LIQUIDTIGHT FLEXIBLE METAL

RACEWAY UP. #12 AWG MINIMUM SIZE CONDUCTOR

RACEWAY DOWN. #12 AWG MINIMUM SIZE CONDUCTOR

UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN

UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN

CONDUIT (REFER TO SPECIFICATIONS) AND WRING. #12 AWG

MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE.

CONDUCTOR.

(1) THE QUANTITY AND AMPACITY OF BRANCH CIRCUIT CONDUC-TORS, UNLESS NOTED OTHERWISE, OR AS REQUIRED BY THE ELECTRICAL SPECIFICATIONS, SHALL FOLLOW THE STANDARD OF ONE #12 AWG CONDUCTOR PER CIRCUIT/PHASE SHOWN PLUS ONE #12 AWG NEUTRAL CONDUCTOR (WHERE A NEUTRAL CONDUCTOR IS REQUIRED) FOR A TYPICAL THREE CIRCUIT OR LESS HOMERUN.

(2) WHEN SERVING FLUORESCENT AND/OR HID LIGHTING, COMBINED BRANCH CIRCUIT HOMERUN NEUTRAL CONDUCTOR SHALL BE CONSIDERED AS A CURRENT CARRYING CONDUCTORS AND ALL RESPECTIVE RACEWAY CONDUCTORS SHALL BE DE-RATED PER NEC.

(3) BRANCH CIRCUITS SERVING COMPUTER RECEPTACLES MAY BE COMBINED PROVIDING EACH BRANCH CIRCUIT IS EITHER WRED WITH A SEPARATE NEUTRAL OR THE SHARED NEUTRAL IS OVERSIZED. EACH NEUTRAL SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR AND ALL RESPECTIVE RACEWAY CONDUCTORS SHALL BE DE-RATED

CONDUIT SEAL

RACEWAY AND CONDUCTORS RUN EXPOSED ON CEILING OR WALLS AT ELECTRICAL CONTRACTOR'S OPTION. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

ONE LINE DIAGRAMS POWER TRANSFORMER. REFER TO DRAWINGS. SCHEDULES, AND SPECIFICATIONS FOR DETAILS. LIGHTNING ARRESTER CIRCUIT BREAKER ----REMOVABLE OR 'DRAW-OUT' ELEMENT INDIVIDUALLY MOUNTED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE. REFER TO DRAWING AND SPECIFICATIONS FOR DETAILS. KIRK KEY INTERLOCK CURRENT TRANSFORMER POTENTIAL TRANSFORMER CABLE TERMINATION GROUND BUS -N-METERS OR INSTRUMENTS UTILITY CO. (OR OWNER) WATT HOUR/DEMAND METER. COORDINATE TYPE AND INSTALLATION WITH UTILITY CO. REPRESENTATIVE. NORMALLY OPEN CONTACTOR NORMALLY CLOSED CONTACTOR MOTOR OVERLOAD ELEMENTS

> MLO PANEL BOARD. REFER TO DRAWINGS, PANELBOARD SCHEDULES, AND SPECIFICATIONS FOR DETAILS. MCB PANEL BOARD. REFER TO DRAWINGS, PANELBOARD SCHEDULES, AND SPECIFICATIONS FOR DETAILS. **FAULT CALCULATION POINT**

> POINT OF CONNECTION TO ELECTRIFIED EQUIPMENT. PROVIDED BY OTHERS. VERIFY EXACT LOCATION WITH RESPECTIVE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

ABBREVIATIONS

ABOVE FINISHED FLOOR LIGHTING PANEL ABOVE FINISHED GRADE MANHOLE ALTERNATE MANUAL TRANSFER SWITCH M.C. MECHANICAL CONTRACTOR ALUMINUM MIKE MICROPHONE AWG AMERICAN WIRE GAGE MTR MOTOR AMPERE(S) MOTOR CONTROL CENTER AUTOMATIC TRANSFER SWITCH MOUNTING HEIGHT BUSDUCT NON-FUSED CLG CEILING NORMALLY CLOSED CKT CIRCUIT NORMALLY OPEN CIRCUIT BREAKER NOT TO SCALE CB CCTV CLOSED CIRCUIT TELEVISION NOT IN CONTRACT COND CONDUCTOR OVERLOAD ELEMENT CONDUIT CONN CONNECT CU COPPER POLYVINYL CHLORIDE CURRENT TRANSFORMER PLUMBING CONTRACTOR POTENTIAL TRANSFORMER DIMMER CONTROL POWER FACTOR DISCONNECT PRIMARY ELECTRICAL CONTRACTOR RECEPT RECEPTACLE EM **EMERGENCY** SEC SECONDARY ELECTRICAL METALLIC TUBING SPK SPEAKER EQUIP EQUIPMENT SURFACE METAL RACEWAY ELECTRIC WATER COOLER SW SWITCH EXISTING SWITCHBOARD FIRE ALARM FACP FIRE ALARM CONTROL PANEL T.C.C. TEMPERATURE CONTROL CONTRACTOR F.P.C. FIRE PROTECTION CONTRACTOR TEMP TEMPORARY FLOOR TELEPHONE HZ FREQUENCY IN CYCLES PER SECOND TELEVISION FUSE TYPICAL GENERATOR XFMR TRANSFORMER GENERAL CONTRACTOR XFR TRANSFER GND GROUND GROUND FAULT INTERRUPTER GFI UNDERGROUND UNIT HEATER HIGH INTENSITY DISCHARGE UNLESS NOTED OTHERWISE HORSEPOWER UPS UNINTERRUPTED POWER SUPPLY HIGH PRESSURE SODIUM INTERMEDIATE METALLIC CONDUIT VOLTAMP(S) **INCANDESCENT** INTERCOM WEATHERPROOF ISOLATED GROUND

EXPLOSION PROOF JUNCTION BOX

KEY OPERATED **kVAR** KILOVAR(S) kVA KILOVOLT AMPERE(S kW KILOWATT(S)

THESE DRAWINGS ARE DIAGRAMMATIC. THE ELECTRICAL CONTRACTOR IS REQUIRED TO PROVIDE THE NECESSARY QUANTITY OF CONDUCTORS FOR SWITCHING AS SHOWN ON THE DRAWINGS IN ORDER TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL.

ALL PENETRATIONS OF FIRE RATED FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITER LAB-ORATORIES LISTINGS FOR THROUGH PENETRATION FIRE STOP SYSTEMS. THE CON-TRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE TO THE U.L. LISTING TO THE ARCHITECT/ENGINEER AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

GENERAL NOTES

- ALL LIGHTING AND POWER CONDUCTORS SHALL BE #10 AWG IN 3/4" CONDUIT MINIMUM, U.N.O.
- 2. CONDUCTORS HAVE BEEN SIZED FOR A MAXIMUM OF 3% VOLTAGE DROP BASED ON THE BRANCH CIRCUIT ROUTING INDICATED ON PLAN. ANY MODIFICATION TO BRANCH CIRCUIT ROUTING SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL INCLUDING CALCULATIONS PRIOR TO INSTALLATION OF CONDUIT.
- LANDSCAPE LUMINARIES AND RECEPTACLES ARE TO BE FIELD LOCATED BY OWNER'S LIGHTING DESIGN CONSTANT (CDL). SEE SPECIALTY LIGHTING DRAWINGS FOR MORE INFORMATION.
- 4. ALL OUTDOOR RECEPTACLES TO BE GFI TYPE. FEED-THROUGH GFI RECEPTACLE NOT ACCEPTABLE. PROVIDE WEATHERPROOF LOCKING COVER.
- PROVIDE UNDERGROUND MARKER TAPE 12" BELOW FINISHED GRADE OR 6"
 BELOW SUB-GRADE UNDER PAVEMENTS AND SLABS. MARKER TAPE SHALL BE
 ACID AND ALKALI RESISTANT POLYETHYLENE FILM WARNING TAPE MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, 4" WIDE AND 4 MILS THICK MINIMUM, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF THE UTILITY, WITH METALLIC CORE ENCASED IN A PROTECTIVE JACKET FOR CORROSION PROTECTION, DETECTABLE BY METAL DETECTOR WHEN TAPE IS BURIED UP TO 2'-6" DEEP.
- ON INSIDE OF RECEPTACLE COVERPLATE, INDICATE CIRCUIT NUMBER AND PANEL DESIGNATION WITH INDELIBLE INK.

SHEET NOTES

KEY MAP

NORTH

KEYNOTES

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N SITIS

SCHEMATIC DESIGN DEVELOPMENT

CONSTRUCTION DOCUMENTS BID/PRICING PACKAGE BUILDING DEPT. **APPROVAL**

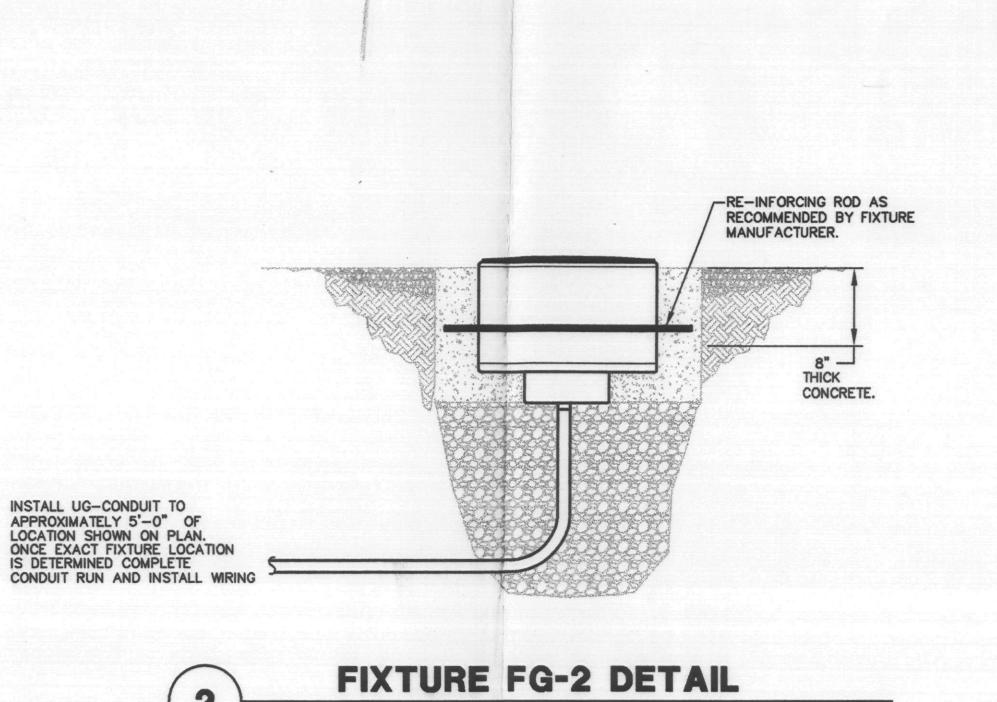
DATE ISSUED 01.31.03 DRAWN BY CHECKED BY J. YURKUS PROJECT NO.

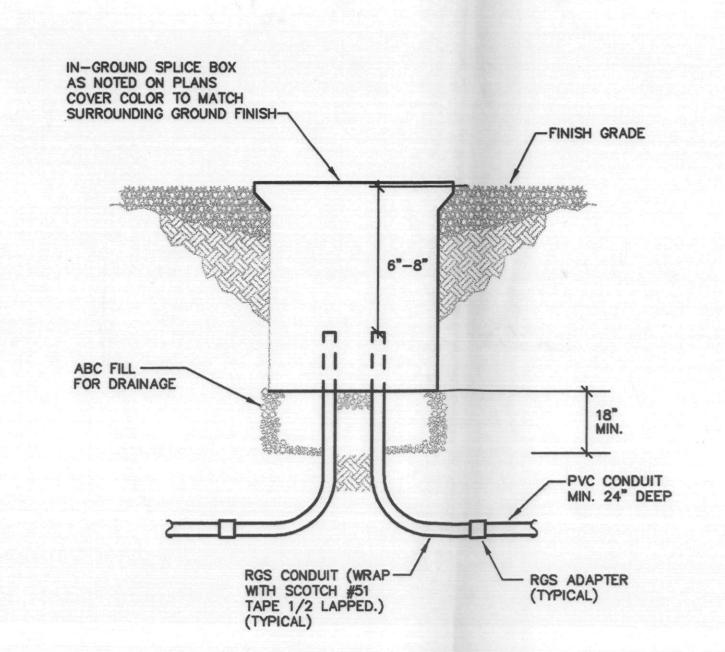
1/8"=1'-0"

CADD FILE SCALE:

DRAWING NO.

ELECTRICAL SYMBOLS





IN-GROUND SPLICE BOX DETAIL

ARIZONA REVISED STATUTES 32-1129.01.

NOTICE OF EXTENDED CERTIFICATION AND APPROVAL PERIOD This contract allows the owner to certify and approve billings and estimates within 30 days after the billings and estimates are received from the contractor.

NOTICE OF EXTENDED PAYMENT PROVISION. This contract allows the owner to make payments within 30 days after certification and approval of billings and

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