

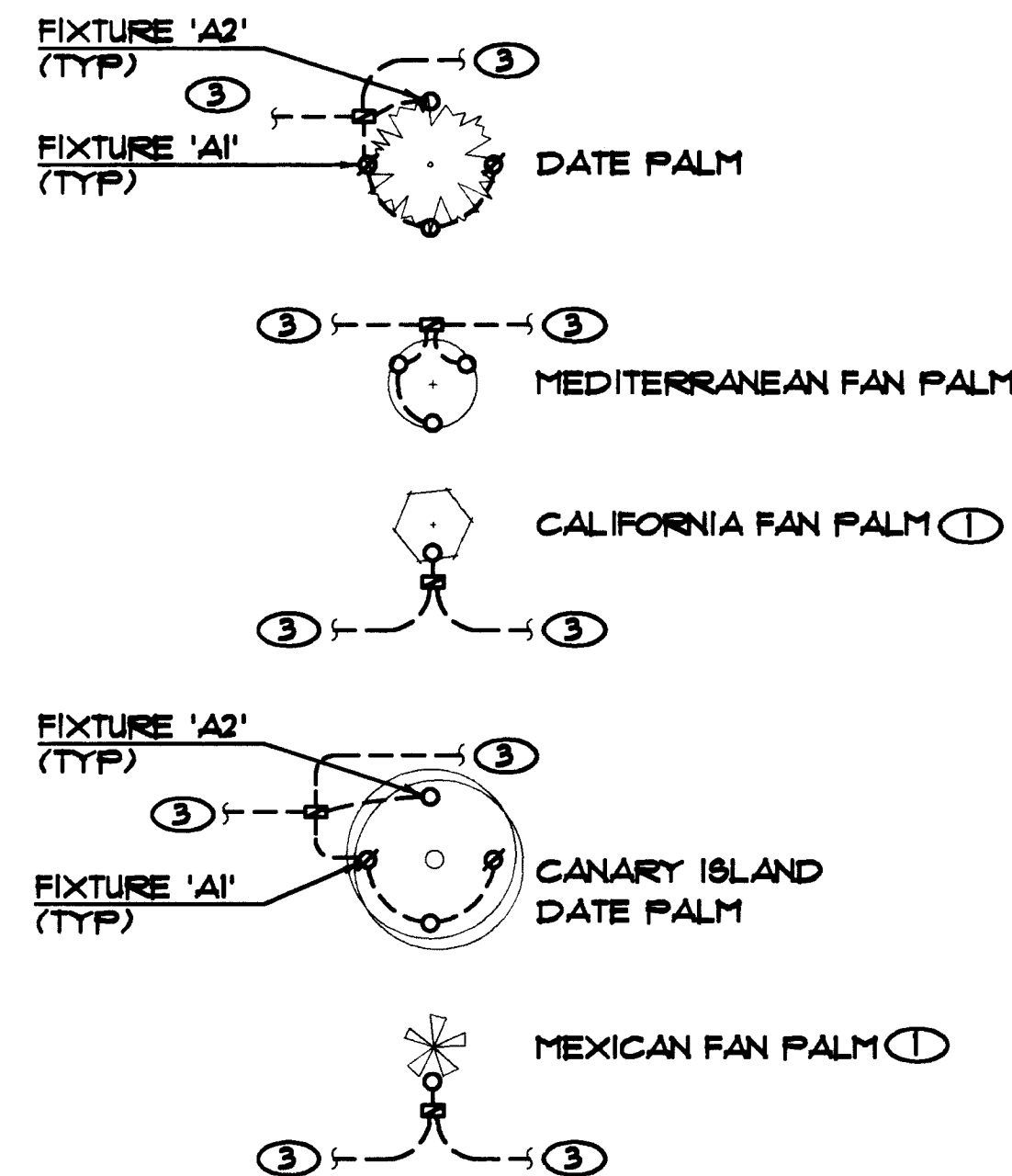
**GENERAL NOTES**

- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #2 FULLWIRE OR EQUAL AND SHALL BE IDENTIFIED AT ALL JUNCTION, FULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAGS SHALL INDICATE INTENDED USE OF CONDUIT, ORIGIN AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO VERBALLY APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
- CONTRACTOR SHALL REVIEW CIVIL AND OTHER DRAWINGS PRIOR TO BID.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS BID, COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ENGINEER.
- WORK MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE OF NEVADA AND NATIONAL CODES AND ORDINANCES.
- PROVIDE PERMITS AND INSPECTIONS REQUIRED.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO CITY OF LAS VEGAS.
- PROVIDE ELECTRICAL DEMOLITION REQUIRED. REFER TO CIVIL DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAINTAIN AND/OR RESTORE CONTINUITY OF SERVICE TO EXISTING CIRCUITS.
- WIRE SHALL BE COPPER, 75°C RATED FOR GENERAL USE. FOR HID FIXTURES WIRE SHALL BE COPPER, MINIMUM 90°C RATED. WIRE SIZES INDICATED AT BRANCH CIRCUIT HOMERUN SHALL BE USED THROUGHOUT CIRCUIT.
- CONDUCTOR SPLICES FOR STREET LIGHTS SHALL BE MADE USING SPLIT BOLT CONNECTORS, NO WIRE NUTS WILL BE ALLOWED. DOUBLE TAPE CONNECTORS WHEN COMPLETE SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT OR INSTALLATION METHODS.
- VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), FULLBOXES, TRANSFORMER PADS, SAUCUTTING AND PATCHING, CONCRETE/PAVING, ETC., REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
- PROVIDE 4' HIGH CONCRETE EQUIPMENT PADS BENEATH TRANSFORMERS, ETC.
- ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 P.V.C. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUAL PROTECTION. CONNECTORS SHALL BE INSULATED THROAT TYPE.
- ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY.
- DIRECT BURIAL TYPE GROUND MOUNTED LUMINAIRE SHALL BE CONSTRUCTED OF U.V. STABILIZED, 180°C RATED FIBERGLASS REINFORCED COMPRESSION MOLDED POLYESTER. JUNCTION BOX SHALL BE INTEGRALLY MOLDED AND BE PROVIDED WITH (2) 1" CONDUIT ENTRIES AND HAVE PROVISIONS FOR FIELD DRILLED 1" BRANCH OUTLET. JUNCTION BOX SHALL HAVE A SEPARATE COMPOSITE COVER W/PROVISIONS FOR FIXTURE DISCONNECT WITHOUT ENTERING THE WIRING COMPARTMENT. ENCAPSULATION COMPOUND FOR WIRING COMPARTMENT SHALL BE PROVIDED WITH THE LUMINAIRE AS WELL AS KING TYPE SILICONE FILLED WIRE NUTS FOR LANDSCAPE LIGHTING. THE BALLAST SHALL BE HIGH-POWER FACTOR CLASS H, 180°C, ENCAPSULATED IN A WATERPROOF RESIN WITH WATERPROOF CONDUITS THAT ALLOW REMOVAL OF THE BALLAST WITHOUT ENTERING THE WIRING COMPARTMENT. A SEPARATE SEALED CUTOFF SWITCH SHALL BE WIRED IN SERIES WITH THE PRIMARY SIDE OF THE BALLAST TO DISCONNECT POWER TO THE BALLAST WHEN THE LAMP MODULE IS REMOVED FOR REPLACING. THE LAMP MODULE AND LENS RING SHALL BE CONSTRUCTED OF U.V. STABILIZED, 200°C RATED COMPOSITE AND SHALL BE PREWIRED WITH 200°C WIRE AND WATERPROOF QUICK CONNECT. THE LAMP MODULE SHALL BE ADJUSTABLE TO 15° WITHOUT OPENING THE LAMP COMPARTMENT. THE OPTICAL ASSEMBLY SHALL BE ALZAK MATERIAL WITH AN ASYMMETRIC OUTPUT UTILIZING AN UH410 3200°K DOUBLE ENDED LAMP, INSTALLED AT THE FACTORY. THE LAMP MODULE SHALL BE SEALED BY MEANS OF A CAM LOCKING SYSTEM AND A SILICONE O-RING GASKET. NO TOOLS SHALL BE NECESSARY TO OPEN THE LAMP HOUSING. THE MAIN HOUSING SHALL ALSO BE SEALED BY MEANS OF A SILICONE O-RING AND ROTATING LENS FRAME. BOTH LENSES SHALL BE TEMPERED GLASS.

**FIXTURE SCHEDULE**

FIXT. TYPE	MANUFACTURER		VOLT AMPS	MOUNTING	LAMP TYPE	REMARKS	VOLT
	NAME	CATALOG NUMBER					
A1	BRONZELITE	GMA-6070-MH-UH3000-H-8P-240-EB-D6A	85	(2) (4)	(1) 10W UHI-10DW	DIRECT BURIAL METAL HALIDE UPLIGHT ASYMMETRIC (8POT) WITH GLARE SHIELD	240
A2	BRONZELITE	GMA-6070-MH-UH3000-H-FL-240-EB-D6A	85	(2) (4)	(1) 10W UHI-10DW	DIRECT BURIAL METAL HALIDE UPLIGHT BIASYMMETRIC (FLOOD) WITH GLARE SHIELD	240
B	GARDCO	CA-22-2-3-250HP8-240-BLA	610	REFER TO POLE BASE DIAGRAM	(2) 250W HP8	GARDCO FORM 10 TWIN CUTOFF LUMINAIRE W/ 26'-3" POLE 4 1/2" MAST ARM	240

**PALM TREE LEGEND**



**NOTICE**

- LOCATION AND AIMING OF LANDSCAPE LTG. TO BE VERIFIED IN FIELD BY ENGINEER.
- CONTRACTOR SHALL REFER TO CIVIL DRAWINGS FOR CONDUIT PROVISIONS BETWEEN MEDIANS.

**NOTES**

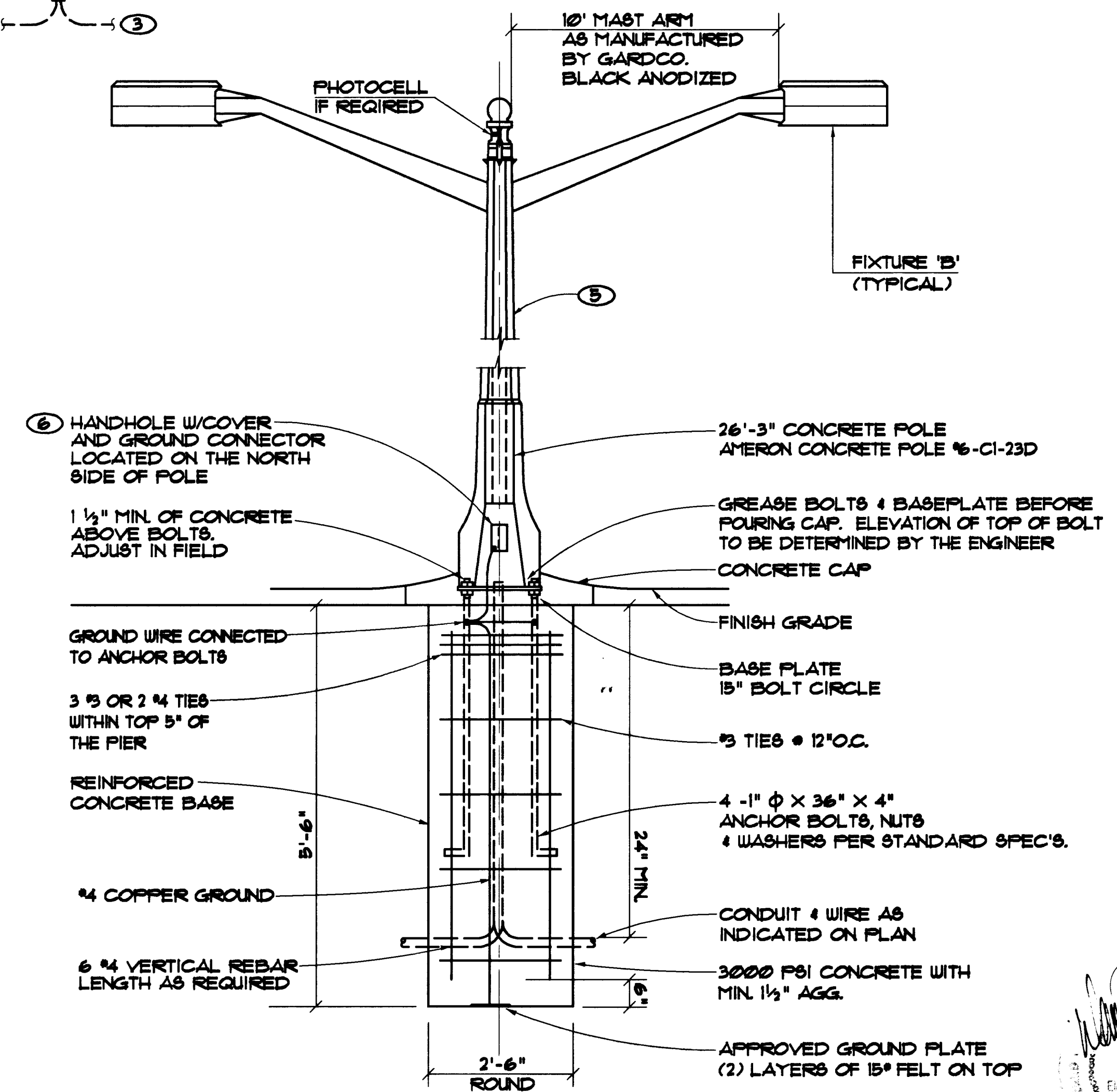
- FIXTURE TO BE MOUNTED AT SIDE NEAREST CURB.
- 12" DIA. x 18" DEEP CONCRETE MOUNTING BASE. TOP FLUSH WITH FINISHED GRADE.
- REFER TO DRAWINGS FOR CIRCUITING.
- REFER TO GENERAL NOTE 20.
- WIRING TO LUMINAIRE FROM HANDHOLE SHALL INCLUDE GROUND.
- PROVIDE (1) IN-LINE (2) POLE FUSE (10A) PER POLE. LOCATED AT THE HANDHOLE.

**SYMBOL LIST**

- TWIN CUTOFF LUMINAIRE - FIXTURE TYPE 'B'
- T TRANSFORMER
- O FLOODLIGHT
- ∅ SPOTLIGHT
- WP INDICATES WEATHER-PROOF (NEMA 3R)
- C INDICATES CONDUIT W/ FULL-LINE ONLY
- UNO INDICATES UNLESS NOTED OTHERWISE
- FNL INDICATES FNL
- GRND INDICATES GRND.
- HOHERUN CONDUIT - STROKES INDICATE QUANTITY OF CONDUCTORS
- CONDUIT RUN EXPOSED
- CONDUIT RUN BELOW GRADE - 24" MINIMUM
- ☉ PHOTOCELL
- Ⓜ RELAY
- ☑ FLUSH GRADE MTD. FULLBOX W/TRAFFIC RATED COVER - #3 1/2 UNLESS NOTED OTHERWISE
- SL— STREET LIGHTING CONDUIT/CONDUCTORS 1 1/4" - 2# 4 1/8 GRND UNLESS NOTED OTHERWISE
- LL— LANDSCAPE LIGHTING CONDUIT/CONDUCTORS 1 1/2" - 2# 4 1/8 GRND UNLESS NOTED OTHERWISE
- Ⓛ 4' 8Q x 1 1/2" WEATHERPROOF

**ELECTRICAL STRUCTURE LIST**

- (48) #3 1/2 FULLBOX (LANDSCAPE LIGHTING)
- (5) #3 1/2 FULLBOX (STREET LIGHTING)
- (4) #5 FULLBOX (T.S. INTERCONNECT)
- (2) #1 FULLBOX (SERVICE POINT)
- (86) TYPE 'A1' FIXTURES (LANDSCAPE LIGHTING)
- (88) TYPE 'A2' FIXTURES (LANDSCAPE LIGHTING)
- (14) TYPE 'B' FIXTURES (STREET LIGHTING)



**POLE BASE DIAGRAM - FOR REFERENCE ONLY**

MANUFACTURER TO PROVIDE

RECORD DRAWINGS

DATE: \_\_\_\_\_

REVISIONS: \_\_\_\_\_

JOB No. 1005002 SHEET No. E-1

DESIGNED BY: CRG DATE: 10-28-06

DRAWN BY: CRG CHECKED BY: DOB

ENGINEERS SURVEYORS PLANNERS

**POGGEMEYER DESIGN GROUP**

2601 NORTH TENAYA WAY LAS VEGAS, NEVADA 89128 (702) 255-8100

DEPARTMENT OF PUBLIC WORKS

PROJECT: DOWNTOWN ENTRY CORRIDOR IMPROVEMENTS LAS VEGAS AVENUE BEAUTIFICATION 4TH STREET TO CALLESTON BLVD.

SHEET: GENERAL NOTES FIXTURE SCHEDULE AND POLE BASE DIAGRAM

DRAWING NO. E-1

DWG # 107-V-22880

