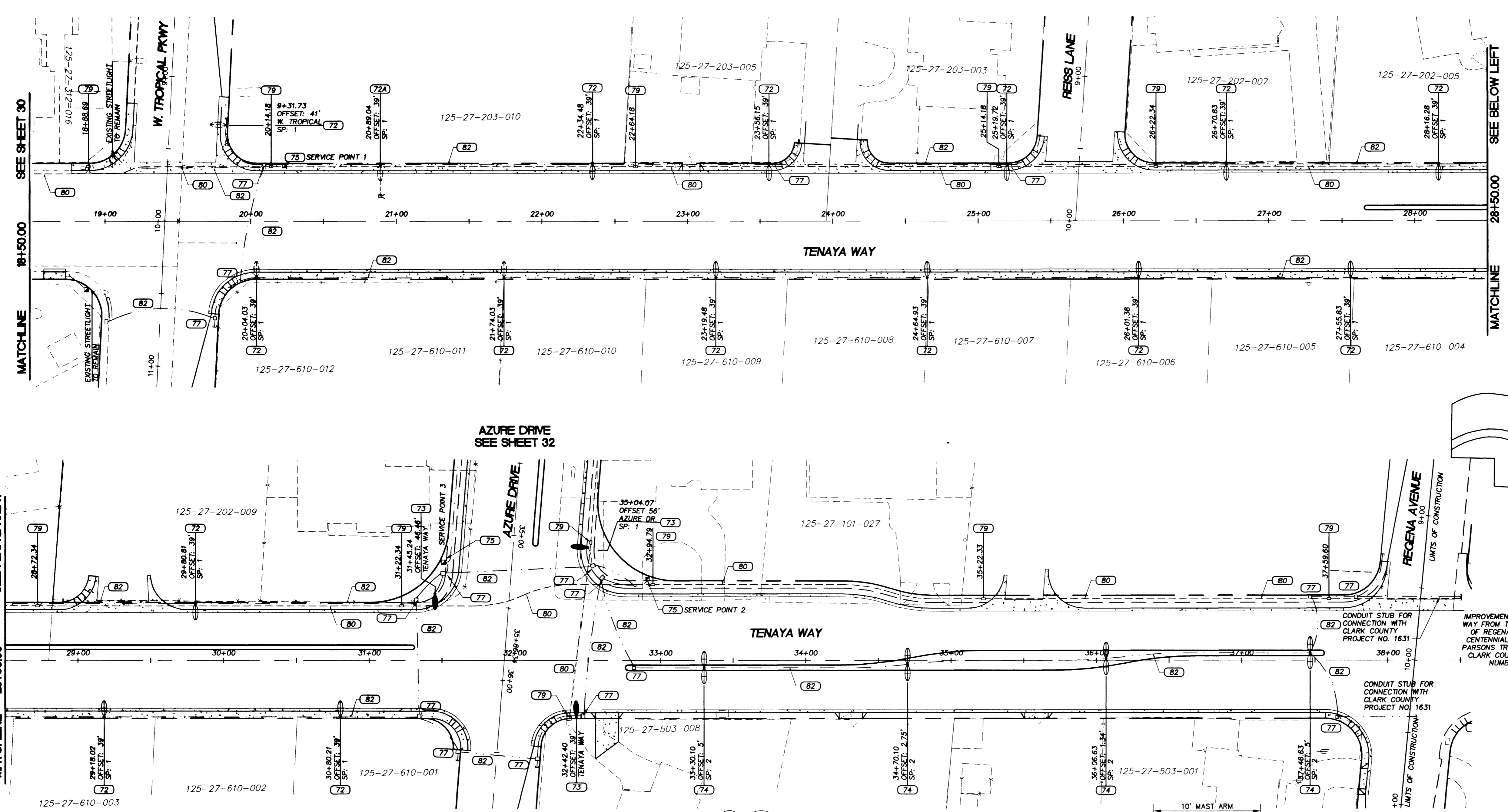
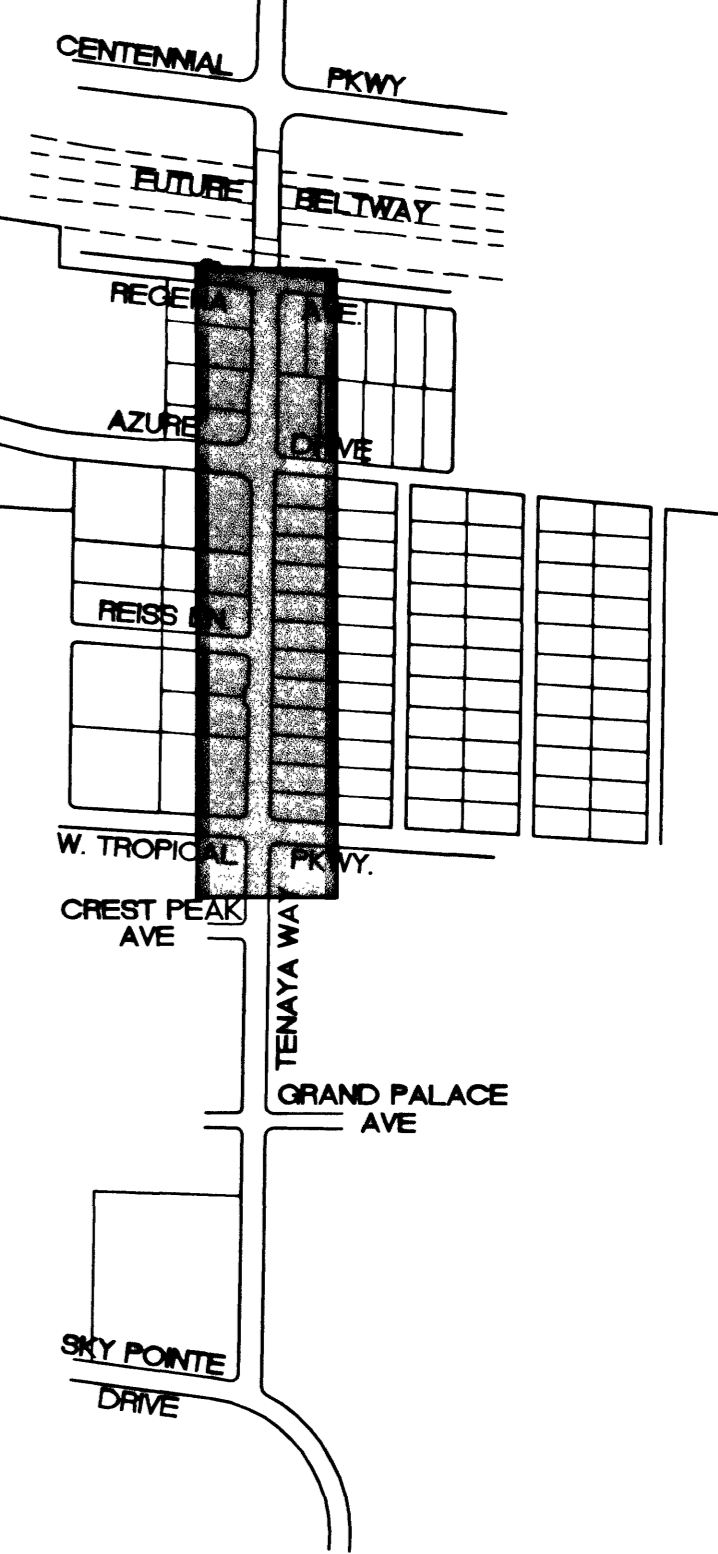
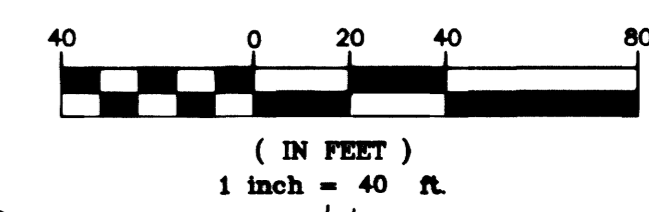


CONSTRUCTION NOTES

- STREET LIGHTING**
- (70) NEW STREET LIGHT ASSEMBLY (SEE TOWN CENTER STANDARDS)
 - (71) TYPE XX-A SIGNAL AND LUMINAIRE POLE WITH 250-WATT HPS LUMINAIRE AND FOUNDATION (SEE SHEET 26)
 - (72) 11'-GAUGE STREET LIGHT ASSEMBLY WITH 250-WATT HPS LUMINAIRE AND FOUNDATION
 - (72A) TYPE XX-30 SIGN & BEACON ASSEMBLY WITH 250-WATT HPS LUMINAIRE (USD NO 404.400 SHEET 2) AND FOUNDATION
 - (73) TYPE XX-A SIGNAL AND LUMINAIRE POLE WITH 400-WATT HPS LUMINAIRE AND FOUNDATION (SEE SHEET 24)
 - (74) TOWN CENTER DOUBLE MAST ARM OVERHEAD STREETLIGHT WITH 250-WATT HPS LUMINAIRE
 - (75) 200 AMP SERVICE PEDESTAL (USD NO 330&332)
 - (76) 125 AMP SERVICE PEDESTAL (USD NO 330&332)
 - (77) NO. 3-1/2 PULLBOX (USD NO 326)
 - (78) NO. 5 PULLBOX (USD NO 326)
 - (79) NO. 7 PULLBOX - INTERCONNECT (USD NO 326)
 - (80) 3" CONDUIT (INTERCONNECT) WITH 25 PAIR #22 WIRE
 - (81) NOT USED
 - (82) 2" PVC CONDUIT FOR STREETLIGHT CIRCUITS WITH 2 #4 THW, 1 #8 THW



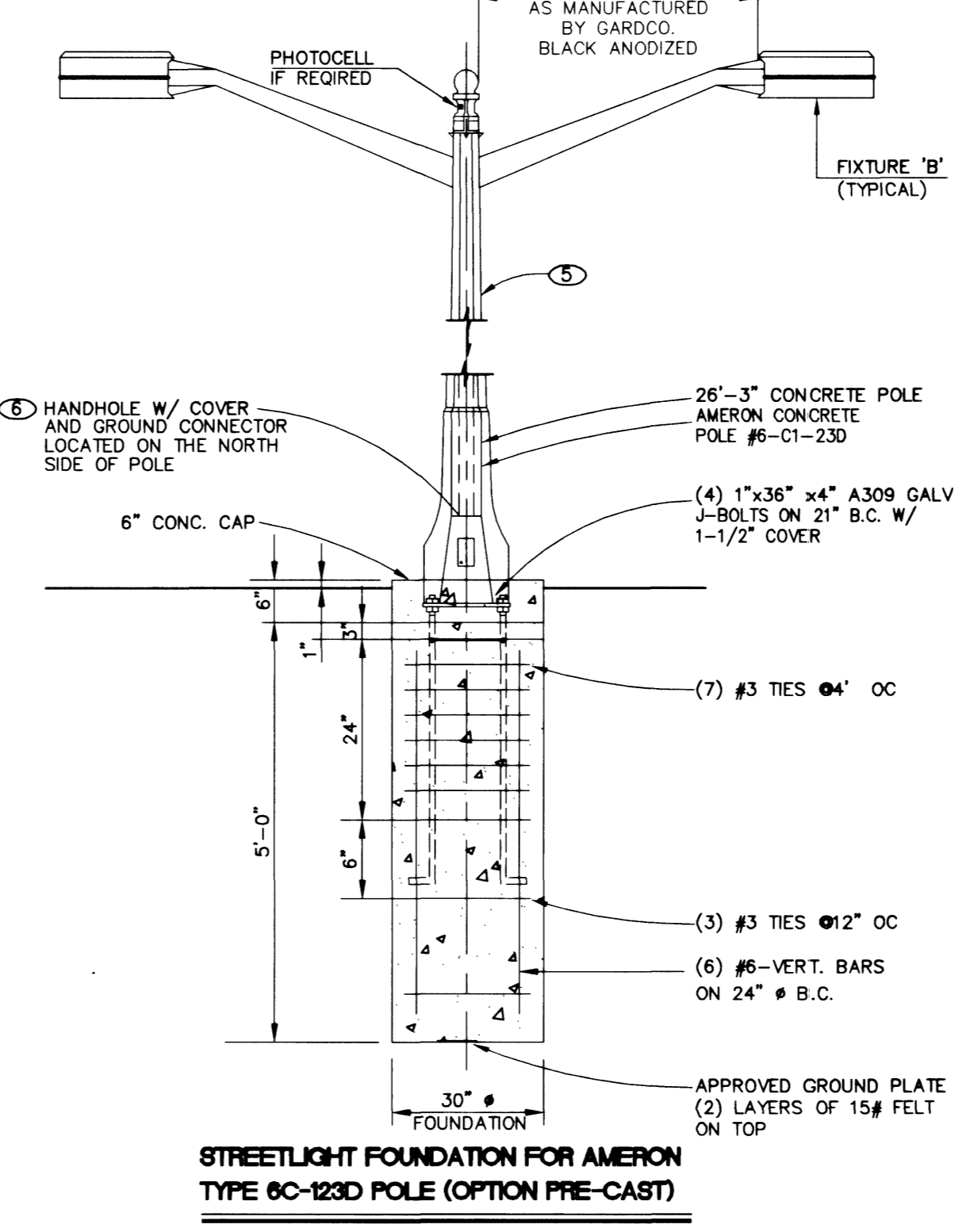
FIXTURE SCHEDULE

FIXT. TYPE	MANUFACTURER NAME	CATALOG NUMBER	VOLT AMPS	MOUNTING	LAMP TYPE	REMARKS	VOLT
A	GARDCO	CA-22-2-3-250HPS-240-BLA	620	REFER TO POLE BASE DIAGRAM	(2) 250W HPS	GARDCO FORM 10 TWIN CUTOFF LUMINAIRE W/ 26'-3" POLE & 10' MAST ARMS	240
B	GARDCO	CA-22-2-3-400HPS-240-BLA	920	REFER TO POLE BASE DIAGRAM	(2) 400W HPS	GARDCO FORM 10 TWIN CUTOFF LUMINAIRE W/ 26'-3" POLE & 10' MAST ARMS	240

GENERAL NOTES

1. DIRECT BURIAL TYPE GROUND MOUNTED LUMINAIRES SHALL BE CONSTRUCTED OF U.V. STABILIZED, 150°C RATED FIBERGLASS REINFORCED COMPRESSION MOLDED POLYESTER. JUNCTION BOX SHALL BE INTEGRALLY MOLDED AND 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. ENCLOSURE INSULATION COMPOUND FOR WIRING COMPARTMENT SHALL BE PROVIDED WITH THE LUMINAIRE AS WELL AS "KIN" 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 SORBSSETS THAT ALLOW REMOVAL OF THE BALLAST WITHOUT ENTERING THE WIRING COMPARTMENT. A SEPARATE SEALED CUTOFF SWITCH SHALL BE PROVIDED IN SERIES WITH THE PRIMARY SIDE OF THE BALLAST TO DISCONNECT POWER TO THE BALLAST WHEN THE LAMP MODULE IS REMOVED FOR RELAMPING. THE LAMP MODULE AND LENS RING SHALL BE CONSTRUCTED OF U.V. STABILIZED, 20°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 U.S.H.O. 3200 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.

2. ALL PULL BOXES CONSTRUCTED IN MEDIAN ISLAND SHALL HAVE CONCRETE COLLARS IN ACCORDANCE WITH USD NO. 329



STREETLIGHT CIRCUIT VERIFICATION

CIRCUIT 1

EXISTING SERVICE POINT CAPACITY = 60 AMPS
 MAXIMUM ALLOWABLE DRAW = 48 AMPS
 EXISTING CIRCUIT LOAD = 0 AMPS
 PROPOSED LUMINAIRE LOAD TO CIRCUIT:

- 100W @ 1.0 AMPS = AMPS
- 200W @ 1.5 AMPS = AMPS
- 16 250W @ 1.5 AMPS = 24 AMPS
- 3 400W @ 3.9 AMPS = 11.7 AMPS

TOTAL PROPOSED LOAD = 35.7 AMPS

EXISTING PLUS PROPOSED LOAD = 35.7
 REMAINING AVAILABLE LOAD = 12.3

STREETLIGHT CIRCUIT VERIFICATION

CIRCUIT 2

EXISTING SERVICE POINT CAPACITY = 60 AMPS
 MAXIMUM ALLOWABLE DRAW = 48 AMPS
 EXISTING CIRCUIT LOAD = 0 AMPS
 PROPOSED LUMINAIRE LOAD TO CIRCUIT:

- 100W @ 1.0 AMPS = AMPS
- 200W @ 1.5 AMPS = AMPS
- 8 250W @ 1.5 AMPS = 12 AMPS
- 400W @ 3.9 AMPS = AMPS

TOTAL PROPOSED LOAD = 12 AMPS

EXISTING PLUS PROPOSED LOAD = 12
 REMAINING AVAILABLE LOAD = 36

- NOTES**
1. FIXTURE TO BE MOUNTED AT SIDE NEAREST CURB.
 2. 12" DIA. x 18" DEEP CONCRETE MOUNTING BASE. TOP FLUSH WITH FINISHED GRADE.
 3. REFER TO DRAWINGS FOR CIRCUITING
 4. REFER TO GENERAL NOTE 1 & 2
 5. WIRING TO LUMINAIRES FROM HANDHOLE SHALL INCLUDE GROUNDING
 6. PROVIDE (1) IN-LINE (2) POLE FUSE (10A), PER POLE, LOCATED AT THE HANDHOLE.

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

DEPARTMENT OF PUBLIC WORKS
 400 EAST STEWART
 LAS VEGAS, NV 89101
 CITY ENGINEER: CHARLES KAJKOWSKI, JR., P.E.
 PROJECT MANAGER: THERESA M. HANRAHAN, P.E.

PRIMAS AND ASSOCIATES
 CONSULTING ENGINEERS
 1001 CHARLTON ROAD, SUITE A-3
 LAS VEGAS, NV 89145
 PHONE: (702) 228-8103
 FAX: (702) 228-8184

ENGINEERING DESIGN SECTION

TENAYA WAY
 STREET LIGHTING
 STATION 18+50 TO 37+00

TITLE
 TENAYA WAY / AZURE DRIVE
 ROADWAY IMPROVEMENTS

DRAWN BY: [Signature]
 DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 PROJECT NO.: 907.01001
 SCALE: 1" = 40'
 HORIZ VERT

REVISION

NO. DATE BY REASON

SEAL
 PROFESSIONAL ENGINEER
 CRAIG A. PRIMAS, P.E.
 R.P.E. NO. 6638

SHEET
 31 OF 70 SHEETS
 DRAWING NO.
 107-V3145