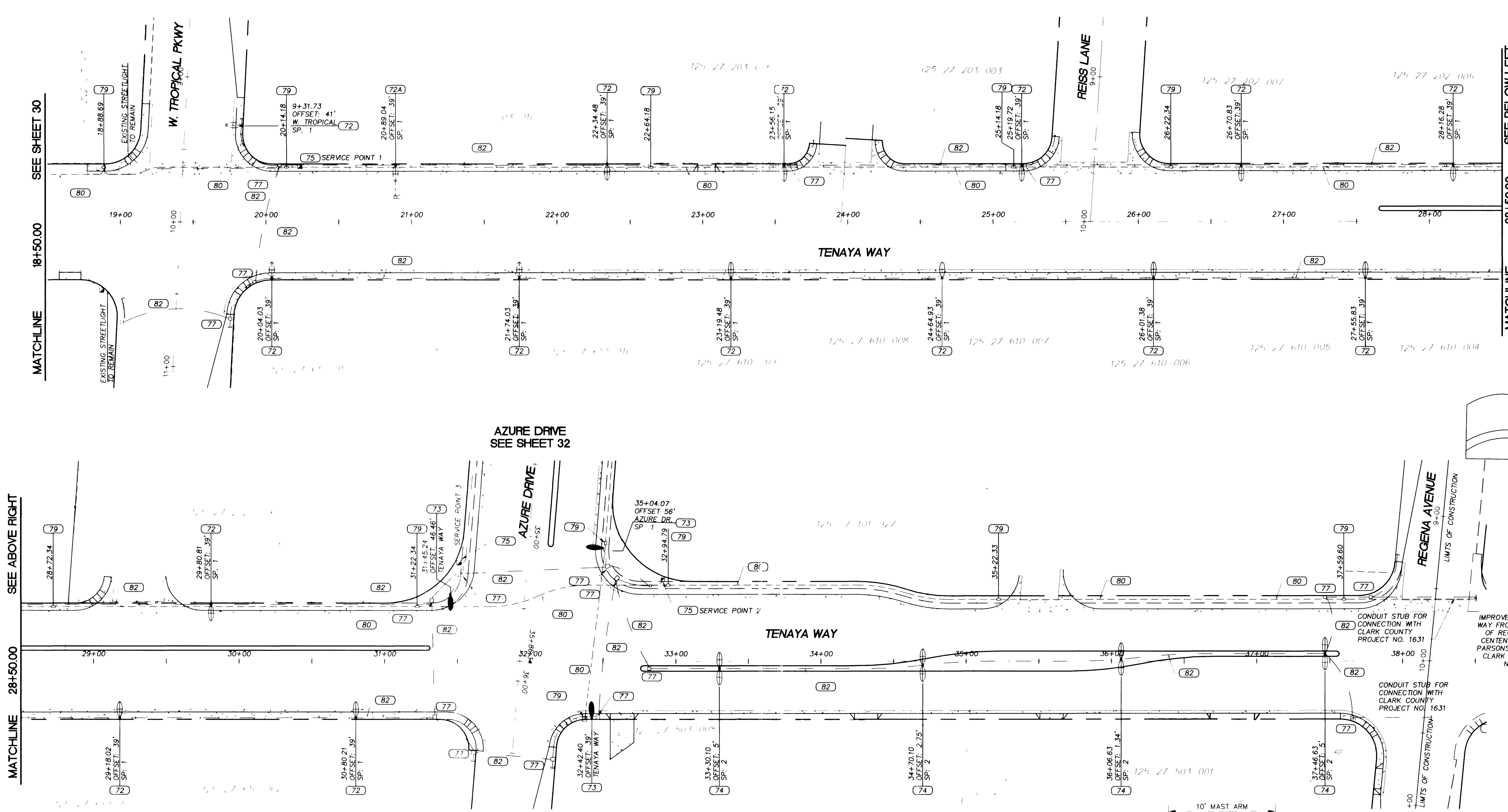
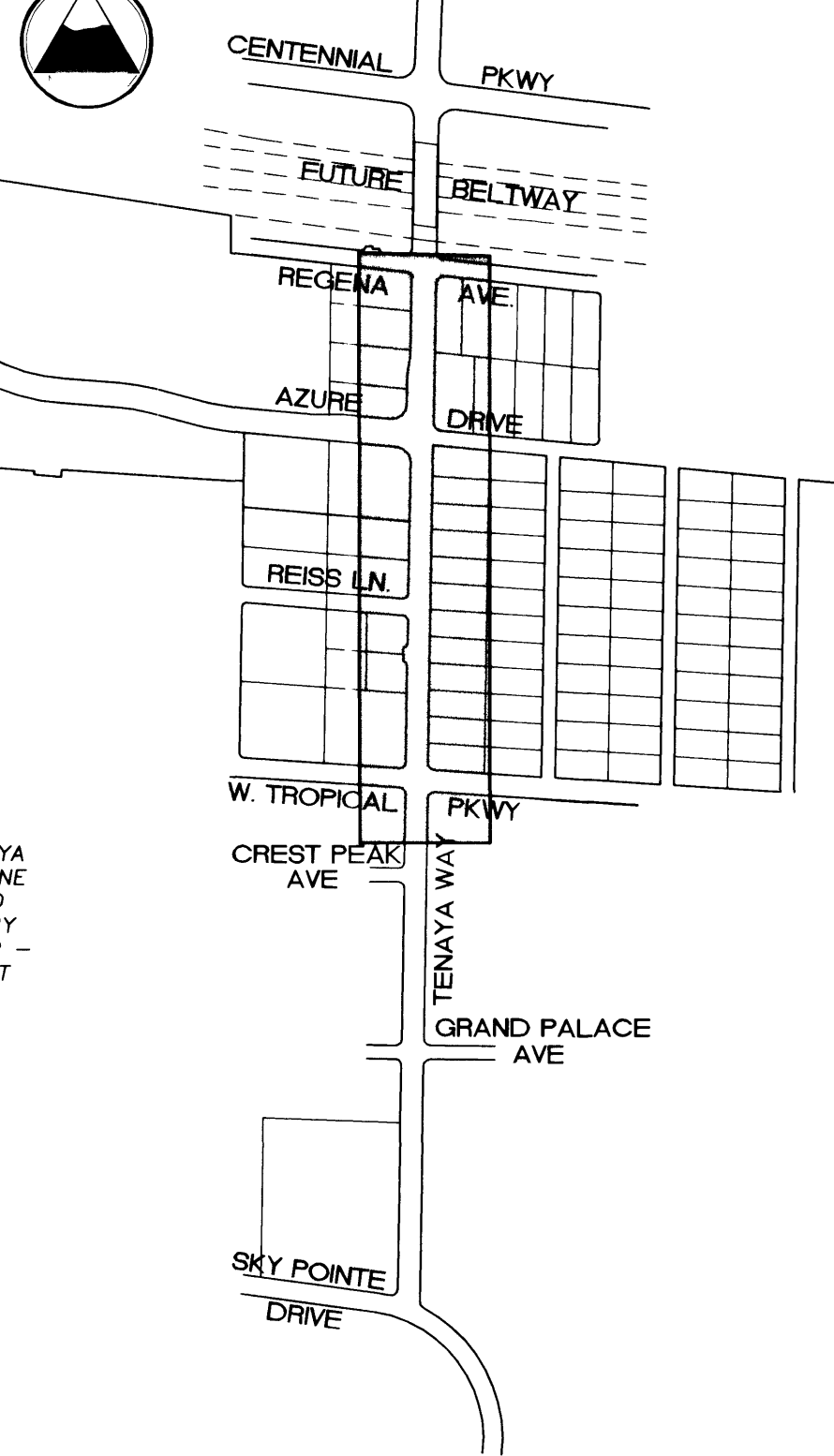
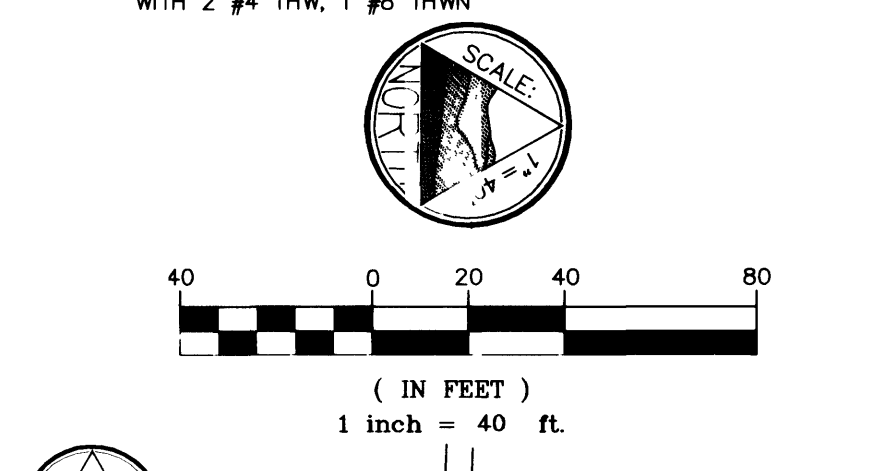




- ### CONSTRUCTION NOTES
- STREET LIGHTING
- (70) NEW STREET LIGHT ASSEMBLY (SEE TOWN CENTER STANDARDS)
 - (71) TYPE XX-A SIGNAL AND LUMINAIRE POLE WITH 250-WATT HPS LUMINAIRE AND FOUNDATION (SEE SHEET 26)
 - (72) 11-GAUGE STREET LIGHT ASSEMBLY WITH 250-WATT HPS LUMINAIRE (USD NO. 314&321) AND FOUNDATION (SEE SHEET 26)
 - (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 26)
 - (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 #6 THWN



FIXTURE SCHEDULE						
FIXT TYPE	MANUFACTURER NAME	CATALOG NUMBER	VOLT AMP	MOUNTING	LAMP TYPE	RE MARKS
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 & 1" MAST ARMS
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 & 1" MAST ARMS

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:

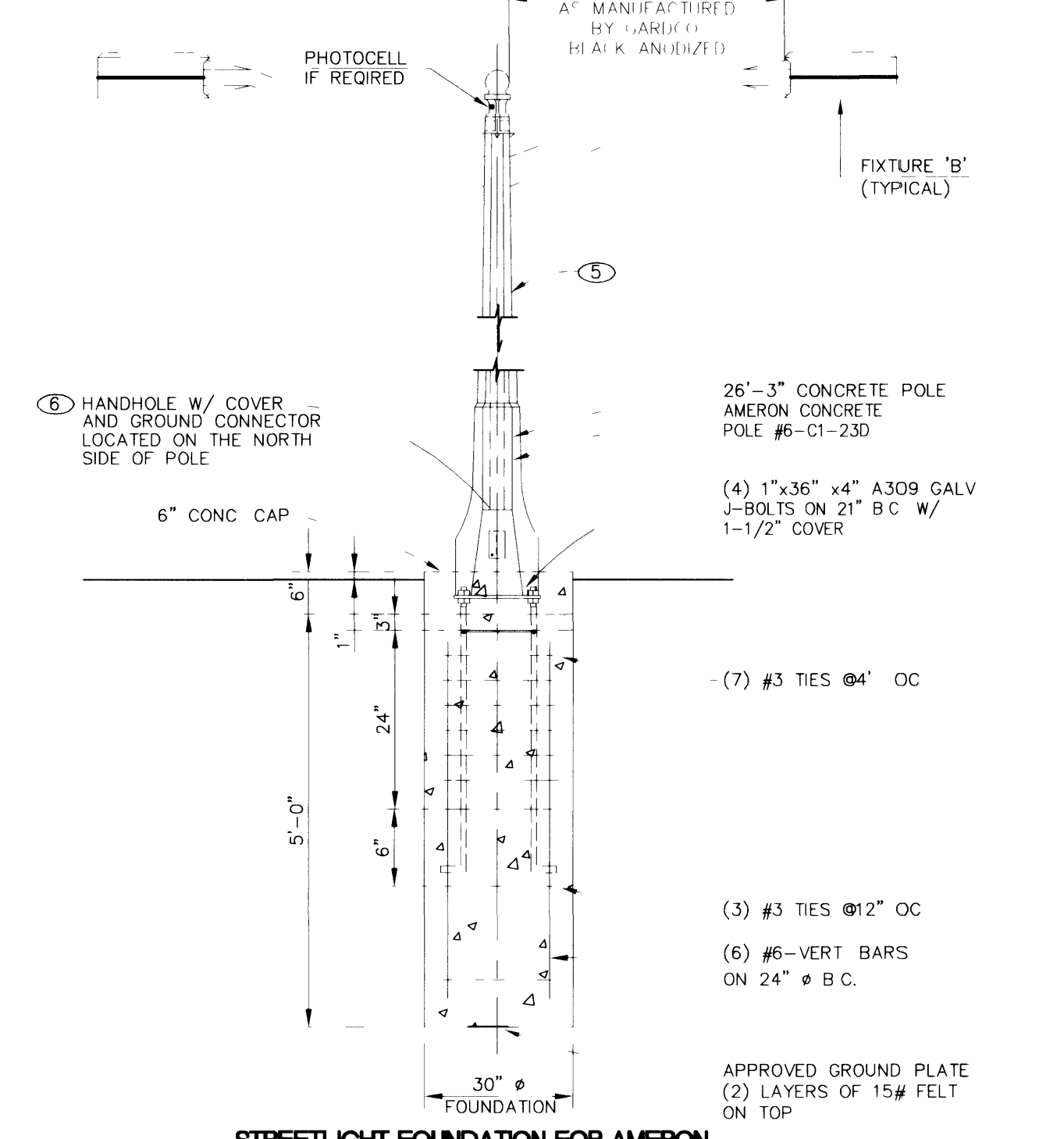
100W @ 1.0 AMPS =	AMPS
200W @ 1.5 AMPS =	AMPS
8 250W @ 1.5 AMPS =	12 AMPS
400W @ 3.9 AMPS =	AMPS

TOTAL PROPOSED LOAD = 12 AMPS

EXISTING PLUS PROPOSED LOAD = 12
 REMAINING AVAILABLE LOAD = 36

GENERAL NOTES

- DIRECT BURIAL TYPE GROUND MOUNTED LUMINAIRES SHALL BE CONSTRUCTED OF U.V. STABILIZED, 150°C RATED FIBER-GLASS 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 & PROVISIONS FOR FUTURE 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 SORBSERS TO 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 RELAMPING. 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 USHIO 3200K 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.
 - ALL PULL BOXES CONSTRUCTED IN MEDIAN ISLAND SHALL HAVE CONCRETE COLLARS IN ACCORDANCE WITH USD NO. 329.
- NOTES:**
- FIXTURE TO BE MOUNTED AT SIDE NEAREST CURB
 - 12" DIA. x 18" DEEP CONCRETE MOUNTING BASE. TOP FINISH WITH FINISHED GRADE.
 - REFER TO DRAWINGS FOR CIRCUITING
 - REFER TO GENERAL NOTE 1 & 2
 - WIRING TO LUMINAIRES FROM HANDHOLE SHALL INCLUDE GROUND
 - PROVIDE (1) IN-LINE (2) POLE FUSE (10A) PER POLE LOCATED AT THE HANDHOLE



STREETLIGHT FOUNDATION FOR AMERON
TYPE 6C-123D POLE (OPTION PRE-CAST)
 SCALE: NONE

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.

SHEET TENAYA WAY STREET LIGHTING STATION 18+50 TO 37+00 TENAYA WAY / AZURE DRIVE ROADWAY IMPROVEMENTS	DRAWN BY: _____ DESIGNED BY: _____ CHECKED BY: _____ PROJECT NO.: 907.01001	SCALE: 1"=40' HORIZ VERT 1"=40' 1"=40'
	TITLE TENAYA WAY / AZURE DRIVE ROADWAY IMPROVEMENTS	
	DEPARTMENT OF PUBLIC WORKS ENGINEERING DESIGN SECTION CITY ENGINEER: CHARLES KAIKOWSKI, JR., P.E. PROJECT MANAGER: THERESA M. HANRAHAN, P.E. 1081 CARMON ROAD, SUITE A-3 LAS VEGAS, NV 89101 PHONE: (702) 228-8183 FAX: (702) 228-8194	
	PRIMAS AND ASSOCIATES CONSULTING ENGINEERS 1081 CARMON ROAD, SUITE A-3 LAS VEGAS, NV 89101 PHONE: (702) 228-8183 FAX: (702) 228-8194	