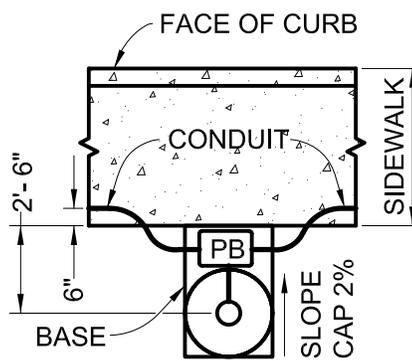
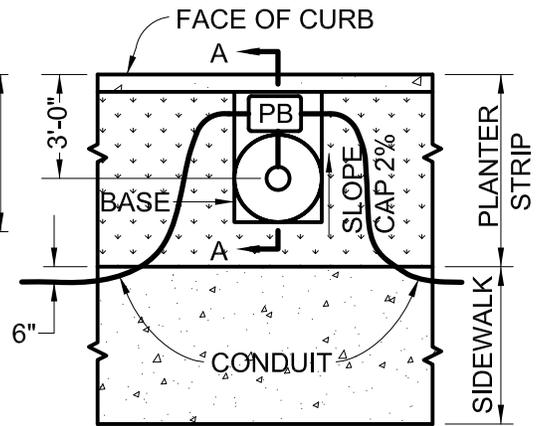


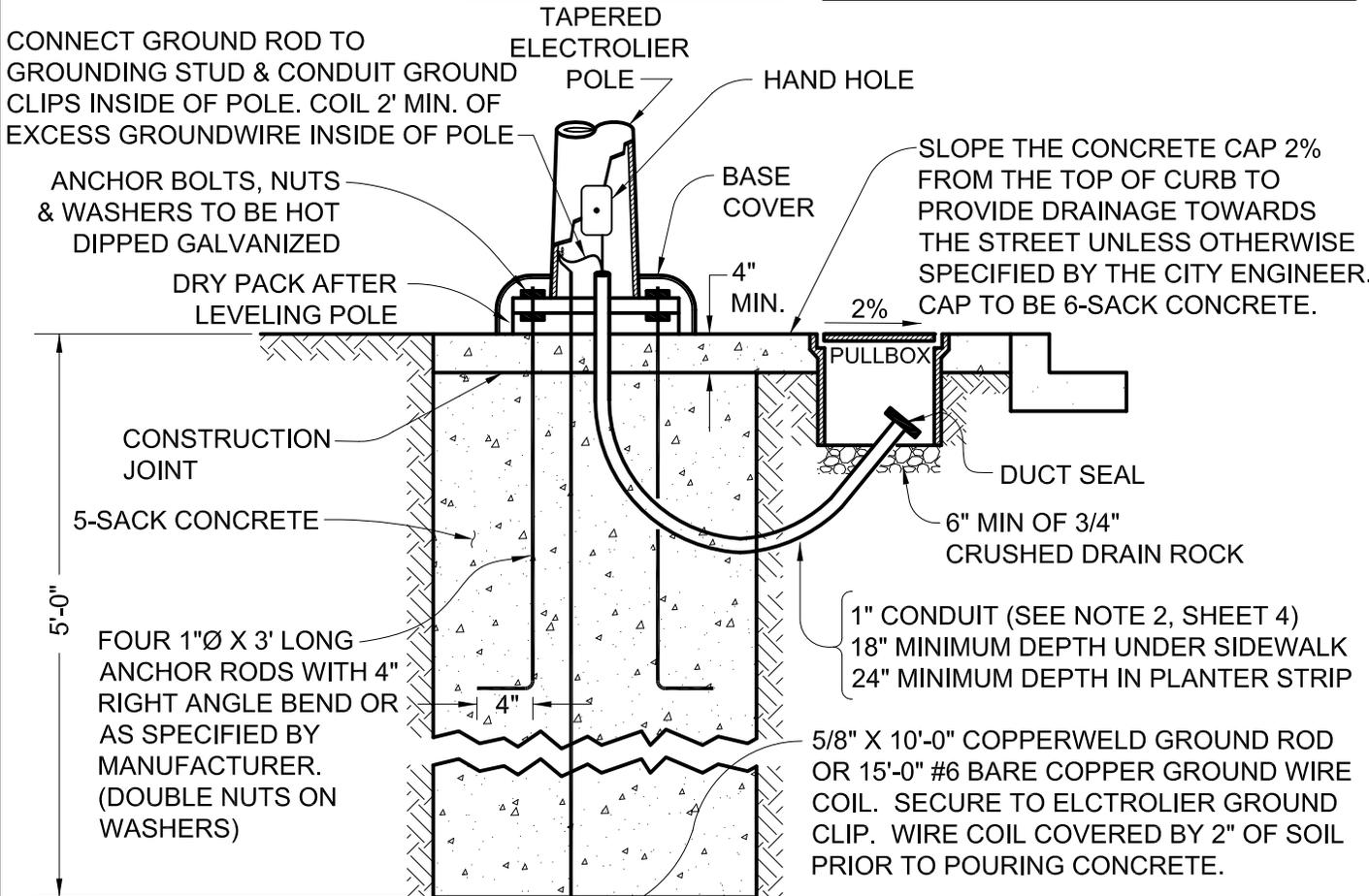
INTEGRAL 10' SIDEWALK



INTEGRAL SIDEWALK



5' SIDEWALK WITH PLANTER STRIP



	BOLT SIZE (MIN)
30' SINGLE	1-0" x 3-0'
30' DOUBLE	1-1/4" x 3-1/2'
35' SINGLE	1-1/4" x 3-0'
35' DOUBLE	1-1/4" x 3-1/2'

CITY OF FREMONT
STANDARD DETAILS
ELECTROLIER BASE

DATE APPROVED BY CITY COUNCIL
04/11/06
RESOLUTION NO. 2006-31
Norm Hughes
CITY ENGINEER

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
SD-24-06.DWG	NONE	DC	AR	03/14/06	SD-24	1 of 7

APPR	REVISIONS	DATE
<i>MMH</i>	Multiple Changes	1/13

ROUND, TAPERED OR ELLIPTICAL ARM - 6' LONG
OR 12' LONG (AT MAJOR THROUGHFARE) SPUN
ALUMINUM OR GALVANIZED STEEL (MATCH POLE)

PHOTOELECTRIC CONTROL
WITH TYPE IV PEU

FOR LEDS: WATTAGE STICKER PER ANSI
STANDARD C136.15 (IDENTIFYING THE
FIXTURE TECHNOLOGY)
IF HIGH PRESSURE SODIUM VAPOR IS
APPROVED USE WATTAGE STICKER PER
CALTRANS SPEC.

LUMINAIRE:

FOR LIGHT EMITTING DIODE (LED) LUMINAIRE SEE
PROJECT SPECIFICATIONS OR APPROVED EQUAL.
IF HIGH PRESSURE SODIUM VAPOR HEAD IS
APPROVED, USE 120V / 240V MULTI-TAP LUMINAIRE,
INTEGRAL MAG. -REG. BALLAST, ASA / IES TYPE III,
CLEAR LAMPS OR APPROVED EQUAL.

SPUN ALUMINUM OR GALVANIZED
STEEL ELECTROLIER POLE. FOR TYPE
AND SIZE SEE TABLE ON SD-24, SHEET 3.

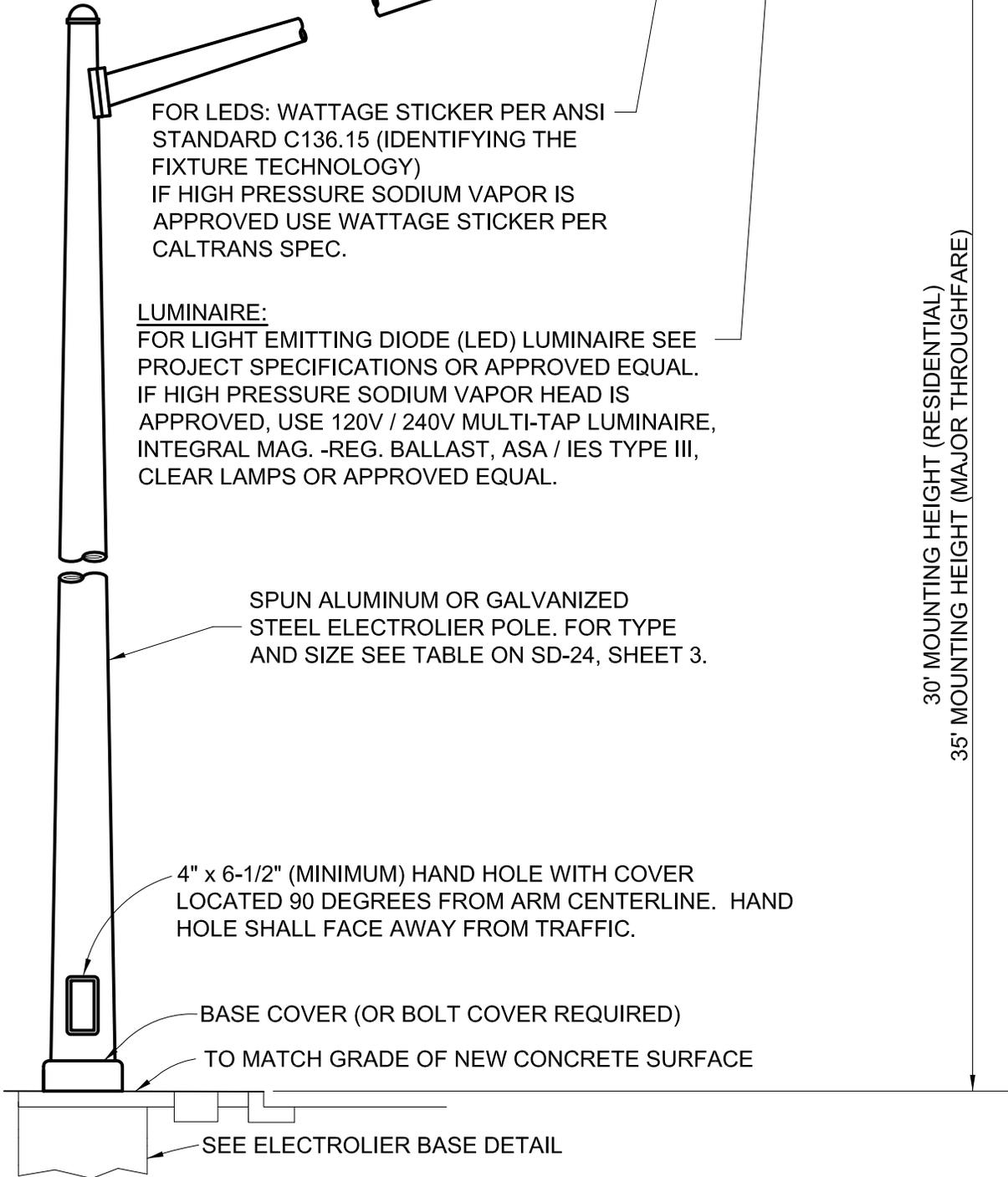
4" x 6-1/2" (MINIMUM) HAND HOLE WITH COVER
LOCATED 90 DEGREES FROM ARM CENTERLINE. HAND
HOLE SHALL FACE AWAY FROM TRAFFIC.

BASE COVER (OR BOLT COVER REQUIRED)

TO MATCH GRADE OF NEW CONCRETE SURFACE

SEE ELECTROLIER BASE DETAIL

30' MOUNTING HEIGHT (RESIDENTIAL)
35' MOUNTING HEIGHT (MAJOR THROUGHFARE)



CITY OF FREMONT
STANDARD DETAILS

ELECTROLIER
ALUMINUM OR STEEL

DATE APPROVED BY CITY COUNCIL
04/11/06

RESOLUTION NO. 2006-31

Norm Hughes

CITY ENGINEER

MM	Multiple Changes	1/13
APPR	REVISED	DATE
REVISIONS		

FILE NO. SD-24-06.DWG	SCALE NONE	DRAWN DC	CHECKED AR	DATE 03/14/06	DWG NO. SD-24	2 of 7
--------------------------	---------------	-------------	---------------	------------------	------------------	--------

ELECTROLIER TYPE (OR APPROVED EQUAL)

Mounting Height	ALUMINIUM		GALVANIZED STEEL	
	Single 6' Arms	Double 6' Arms	Single 6' Arms	Double 6' Arms
30'-0"	HAPCO RTA30D8B4M16	HAPCO RTA30D8B4M26	VALMONT DS32-R750A286-6S	VALMONT DS32-R750A286-6D
		PFAFF AND KENDALL RTA8M30AAS26	AMERON PL-286	AMERON PL-286D
35'-0"	HAPCO RTA35F8B4M16	HAPCO RTA35F8B4M26	VALMONT DS32-R800A336-6S	VALMONT DS32-R800A336-6D
			AMERON PL-336	AMERON PL-336D

NOTE: FOR MORE INFORMATION REFER TO CITY OF FREMONT STANDARD SPECIFICATIONS SECTION 32 STREET LIGHTING SYSTEM.

<i>MH</i>	Multiple Changes	1/13
APPR	REVISED	DATE
REVISIONS		

CITY OF FREMONT
STANDARD DETAILS
ELECTROLIER
TABLE

DATE APPROVED BY CITY COUNCIL
04/11/06

RESOLUTION NO. 2006-31

Norm Hughes
CITY ENGINEER

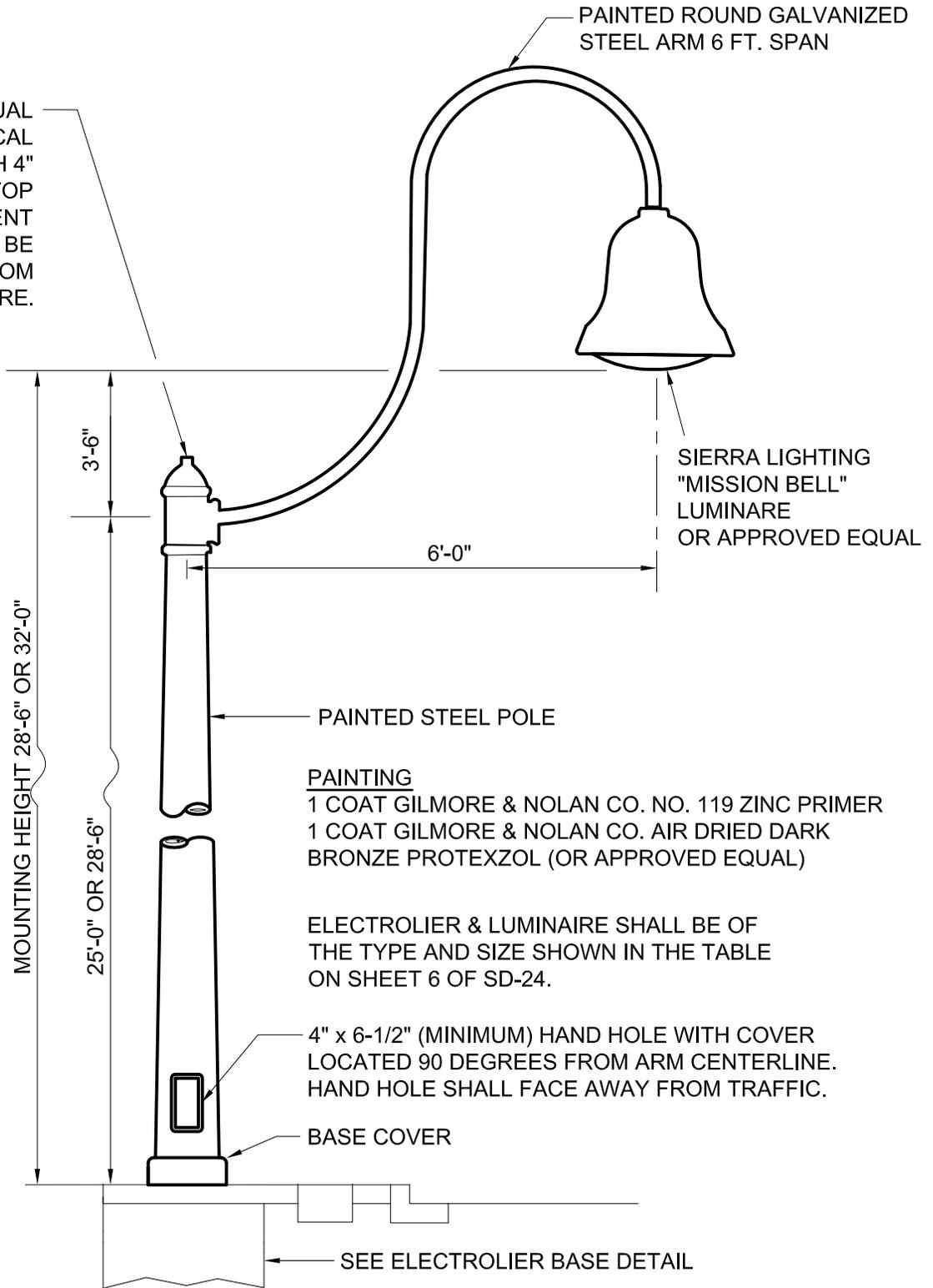
FILE NO. SD-24-06.DWG	SCALE NONE	DRAWN DC	CHECKED AR	DATE 03/14/06	DWG NO. SD-24	3 of 7
--------------------------	---------------	-------------	---------------	------------------	------------------	--------

ELECTROLIER NOTES

1. ALL UNDERGROUND WIRING SHALL BE IN APPROVED CONDUIT. THE UNDERGROUND CONDUIT AND ALL METAL PARTS SHALL BE CONTINUOUSLY BONDED AND GROUNDED.
2. MINIMUM CONDUIT SHALL BE TYPE II, PVC OR ABS UL LISTED SUITABLE FOR DIRECT BURIAL. MINIMUM CONDUIT SIZE SHALL BE 1" BETWEEN THE POLE AND THE PULL BOX FOR AWG NO. 8 AND 1 1/2" MIN. FOR AWG NO. 6 AND LARGER. ALL CONDUIT ENDS SHALL BE PLUGGED WITH DUCT SEALING COMPOUND.
3. MINIMUM RADIUS OF CONDUIT BENDS SHALL BE 18 INCHES. ALL CONDUIT BENDS AND/OR OFFSETS SHALL BE ACCOMPLISHED WITH FACTORY FORMED SECTIONS.
4. ALL PLASTIC CONDUIT STUBS INTO BASE SHALL BE COMPLETED BY A 90° RIGID METALLIC OR PLASTIC CONDUIT ELL, AND EXTENSION AS REQUIRED.
5. PULL BOXES SHALL BE CHRISTY N-9 (OR APPROVED EQUAL). COVERS SHALL HAVE CAST BRASS HOLD-DOWN LUGS, AND SHALL BE INSCRIBED "STREET LIGHTING." A PULL BOX SHALL BE INSTALLED AT EACH ELECTROLIER.
6. PULL BOXES SHALL BE NOT MORE THAN 250 FEET APART ON LONG RUNS.
7. WHERE PULL BOXES ARE SUBJECT TO TRAFFIC LOADS, THEY SHALL BE SET ON A CONCRETE FOOTING AND THE COVER SHALL BE CAST IRON OR STEEL OF SUFFICIENT STRENGTH TO WITHSTAND THE TRAFFIC LOAD. (H20 LOADING)
8. RISERS INSTALLED ON UTILITY-OWNED POLES SHALL CONFORM TO SPECIFICATIONS SUPPLIED BY THE UTILITY COMPANY. ELECTRIC SERVICE POINT SHALL BE APPROVED BY PACIFIC GAS & ELECTRIC COMPANY.
9. CONDUCTOR SHALL BE UL LISTED AWG NO. 8 OR LARGER WITH 7 STRAND SOFT COPPER TYPE THW, THHN, XHHW, OR RHW WITH A MINIMUM OF 3/64 OF AN INCH INSULATION. HOWEVER, WIRES IN THE POLE SHALL BE MINIMUM #14.
10. NO MECHANICAL MEANS SHALL BE USED TO PULL WIRES SMALLER THAN NO. 1 AWG.
11. ALL SPLICES FOR GREATER THAN AWG NO. 10 SHALL BE IN PULL BOXES AND HAVE APPROVED SOLDERLESS CONNECTORS OF PROPER SIZE.
12. A FIBERGLASS OR POLYPROPYLENE PULL ROPE SHALL BE LEFT IN ALL EMPTY CONDUITS.
13. CONTRACTOR TO MEET PG&E REQUIREMENTS FOR CONDUIT AND CONDUCTORS BETWEEN THE PG&E AND CITY PULL BOXES.
14. FUSES SHALL BE LOCATED IN THE PULL BOX ADJACENT TO EACH ELECTROLIER. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOX, PG&E SERVICE BOX, AND FUSE HOLDERS AND FUSES. IF PG&E SECONDARY BOX IS WITHIN 6' OF THE ELECTROLIER, THE ADDITIONAL PULL BOX IS NOT NEEDED.
15. POLE NUMBERS SHALL BE PLACED ON ALL ELECTROLIERS 10' TO 12' ABOVE GRADE. NUMBERS TO BE AS SPECIFIED IN SECTION 32 "STREET LIGHTING SYSTEM," OF THE CITY OF FREMONT STANDARD SPECIFICATIONS.
16. PULL BOXES SHALL BE PLACED AT ALL ANGLE POINTS IN CONDUIT RUNS.
17. ALL STREET LIGHT CONDUIT CROSSINGS SHALL BE 90° TO THE CENTERLINE.
18. STREET LIGHT DESIGN FOR MORE THAN 4 LIGHTS SHALL BE STAMPED, SIGNED AND DATED BY A ELECTRICAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
19. BOLT EXTENDERS MAY ONLY BE USED TO RAISE AN EXISTING, UNDAMAGED POLE AND BASE TO GRADE. STRUCTURAL CALCULATIONS AND/OR CERTIFICATION FROM THE MANUFACTURER IS NEEDED FOR THE PROPOSED BOLT EXTENDER.
20. WHEN OVERHEAD WIRES EXIST WHERE A NEW LIGHT POLE IS TO BE INSTALLED THE CLEARANCE REQUIREMENTS SHALL COMPLY WITH MIN. CLEARANCE REQUIREMENTS FROM PG&E. THE CLEARANCE REQUIREMENTS FOR PRIMARY LINES AND SECONDARY LINES ARE A MIN. 10FT AND 3FT RESPECTIVELY OR MIN. AS REQUIRED BY PG&E.

			CITY OF FREMONT			DATE APPROVED BY CITY COUNCIL 04/11/06	
			STANDARD DETAILS			RESOLUTION NO. 2006-31	
MM	Multiple Changes	1/13	<u>ELECTROLIER NOTES</u>				
APPR	REVISED	DATE				CITY ENGINEER	
REVISIONS							
FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.		
SD-24-06.DWG	NONE	DC	AR	03/08/06	SD-24	4 of 7	

MOUNTED INDIVIDUAL PHOTO ELECTRICAL CONTROL WITH 4" EXTENSION ON TOP OF POLE. ORIENT PHOTOCELL TO BE PLACED AWAY FROM LUMINAIRE.



PAINING

1 COAT GILMORE & NOLAN CO. NO. 119 ZINC PRIMER
 1 COAT GILMORE & NOLAN CO. AIR DRIED DARK BRONZE PROTEXZOL (OR APPROVED EQUAL)

ELECTROLIER & LUMINAIRE SHALL BE OF THE TYPE AND SIZE SHOWN IN THE TABLE ON SHEET 6 OF SD-24.

4" x 6-1/2" (MINIMUM) HAND HOLE WITH COVER LOCATED 90 DEGREES FROM ARM CENTERLINE. HAND HOLE SHALL FACE AWAY FROM TRAFFIC.

BASE COVER

SEE ELECTROLIER BASE DETAIL

<i>MM</i>	Multiple Changes	1/13
APPR	REVISED	DATE
REVISIONS		

CITY OF FREMONT
 STANDARD DETAILS

ELECTROLIER
MISSION BELL

DATE APPROVED BY CITY COUNCIL
 04/11/06

RESOLUTION NO. 2006-31

Sam Hughes

CITY ENGINEER

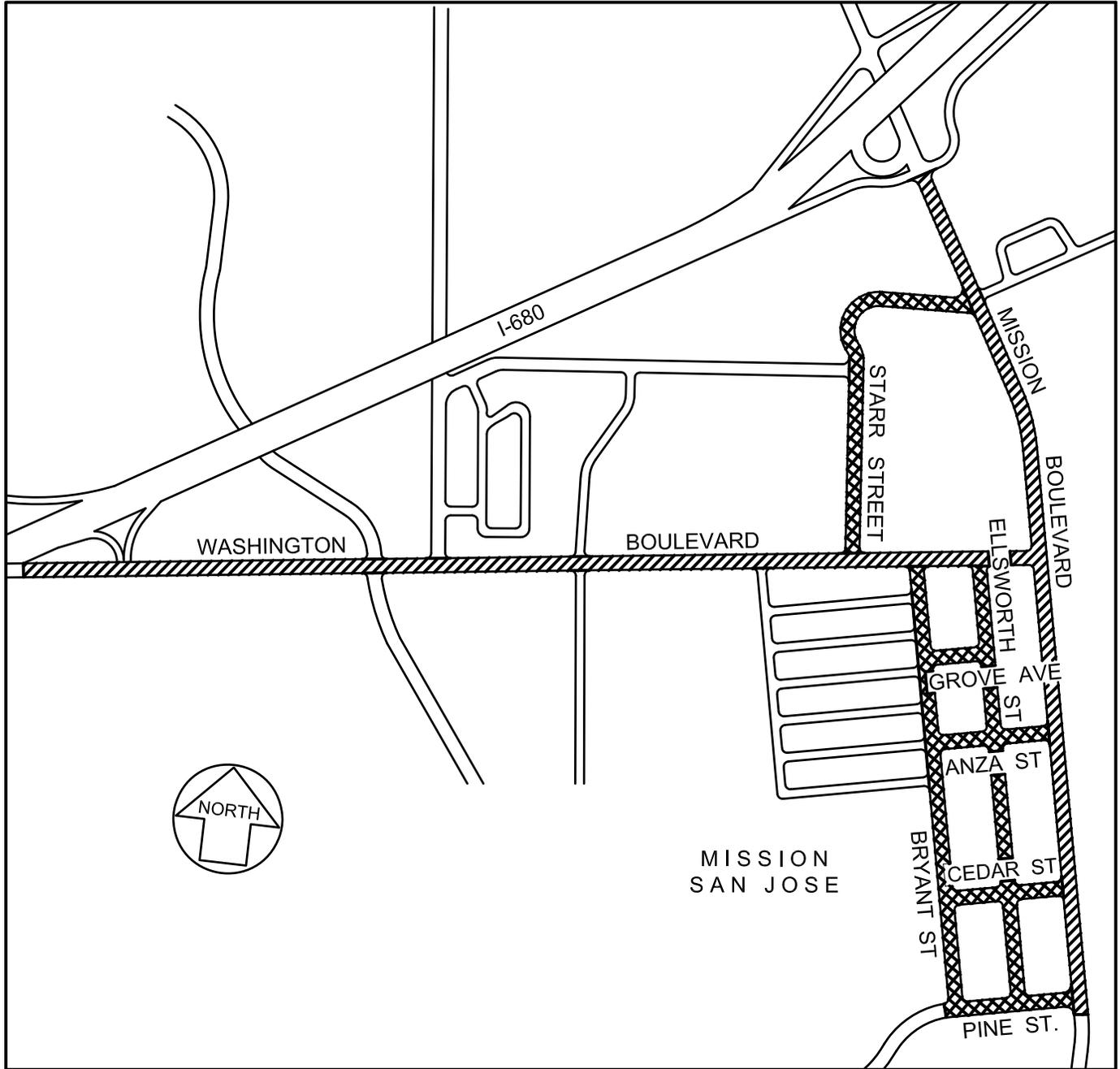
FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
SD-24-06.DWG	NONE	DC	AR	03/14/06	SD-24	5 of 7

MOUNTING HEIGHT	ELECTROLIER		LUMINAIRE
	SINGLE 6' ARM	DOUBLE 6' ARM	
28'-6"	UNION METALS DESIGN FB-MB #FB-7250-MB6 (OR APPROVED EQUAL)	UNION METALS DESIGN FB-MB #FB-7250-MMB6 (OR APPROVED EQUAL)	SIERRA LIGHTING CAT. NO. MB-100-MH-120-MBZ (OR APPROVED EQUAL)
32'-0"	UNION METALS DESIGN FB-MB #FB-7286-MB6 (OR APPROVED EQUAL)	UNION METALS DESIGN FB-MB #FB-7286-MMB6 (OR APPROVED EQUAL)	SIERRA LIGHTING CAT. NO. MB-100-MH-120-MBZ (OR APPROVED EQUAL)

REFER TO SHEET 4 FOR CONSTRUCTION NOTES.

REFER TO SHEET 7 FOR LIMITS OF INSTALLATION.

			CITY OF FREMONT STANDARD DETAILS			DATE APPROVED BY CITY COUNCIL 04/11/06	
						RESOLUTION NO. 2006-31	
			ELECTROLIER AND LUMINAIRE TABLE - MISSION BELL			 CITY ENGINEER	
REVISIONS							
FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.		
SD-24-06.DWG	NONE	DC	AR	03/14/06	SD-24	6 of 7	



LEGEND



32'-0" MOUNTING HEIGHT "MISSION BELL" ELECTROLIER



28'-6" MOUNTING HEIGHT "MISSION BELL" ELECTROLIER

<i>MM</i>	Multiple Changes	1/13
APPR	REVISED	DATE
REVISIONS		

CITY OF FREMONT
STANDARD DETAILS
ELECTROLIER LIMITS
AND INSTALLATION
MISSION BELL

DATE APPROVED BY CITY COUNCIL
 04/11/06

RESOLUTION NO. 2006-31

Ham Hughes

CITY ENGINEER

FILE NO. SD-24-06.DWG	SCALE NONE	DRAWN DC	CHECKED AR	DATE 12/16/05	DWG NO. SD-24	7 of 7
--------------------------	---------------	-------------	---------------	------------------	------------------	--------