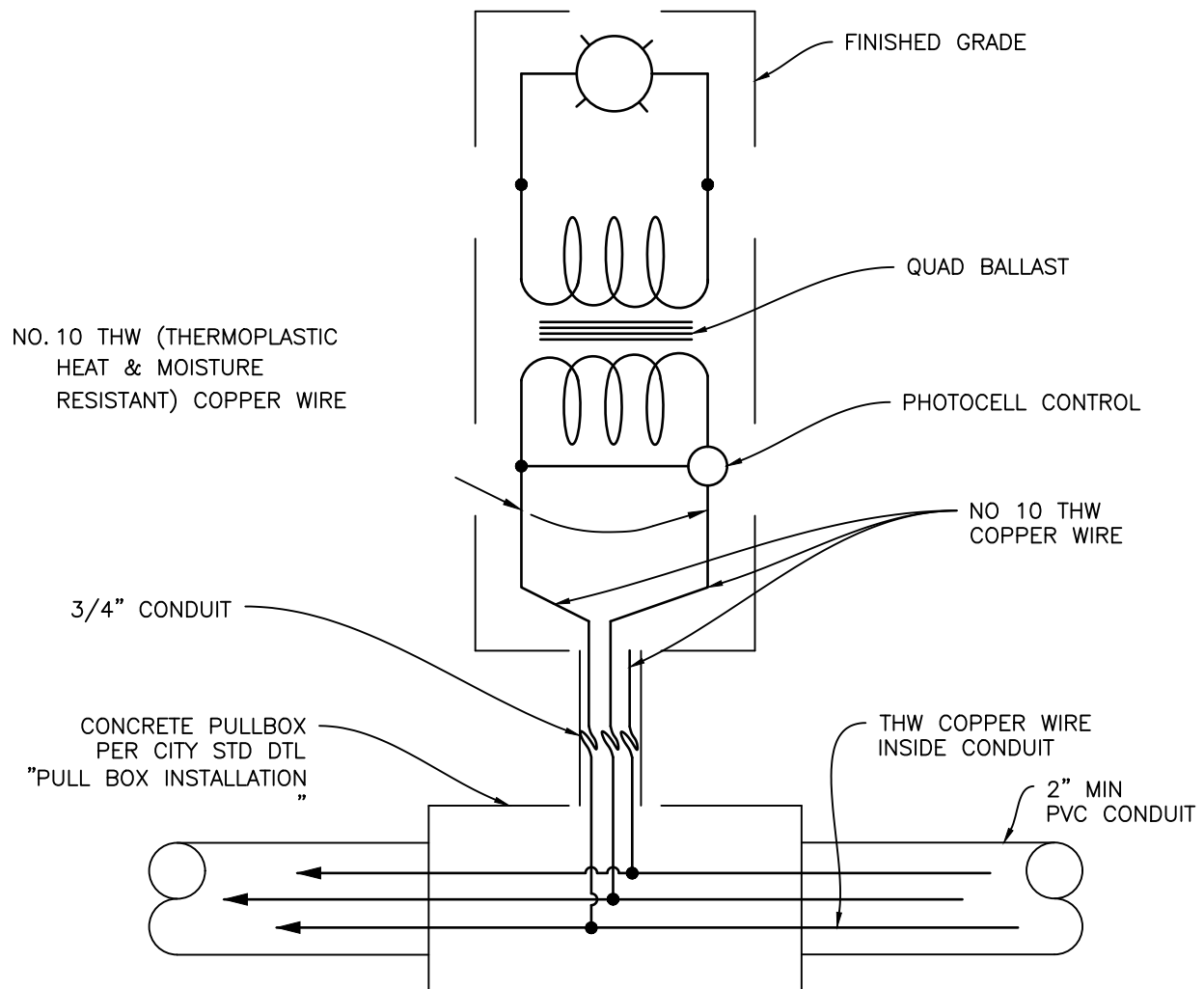




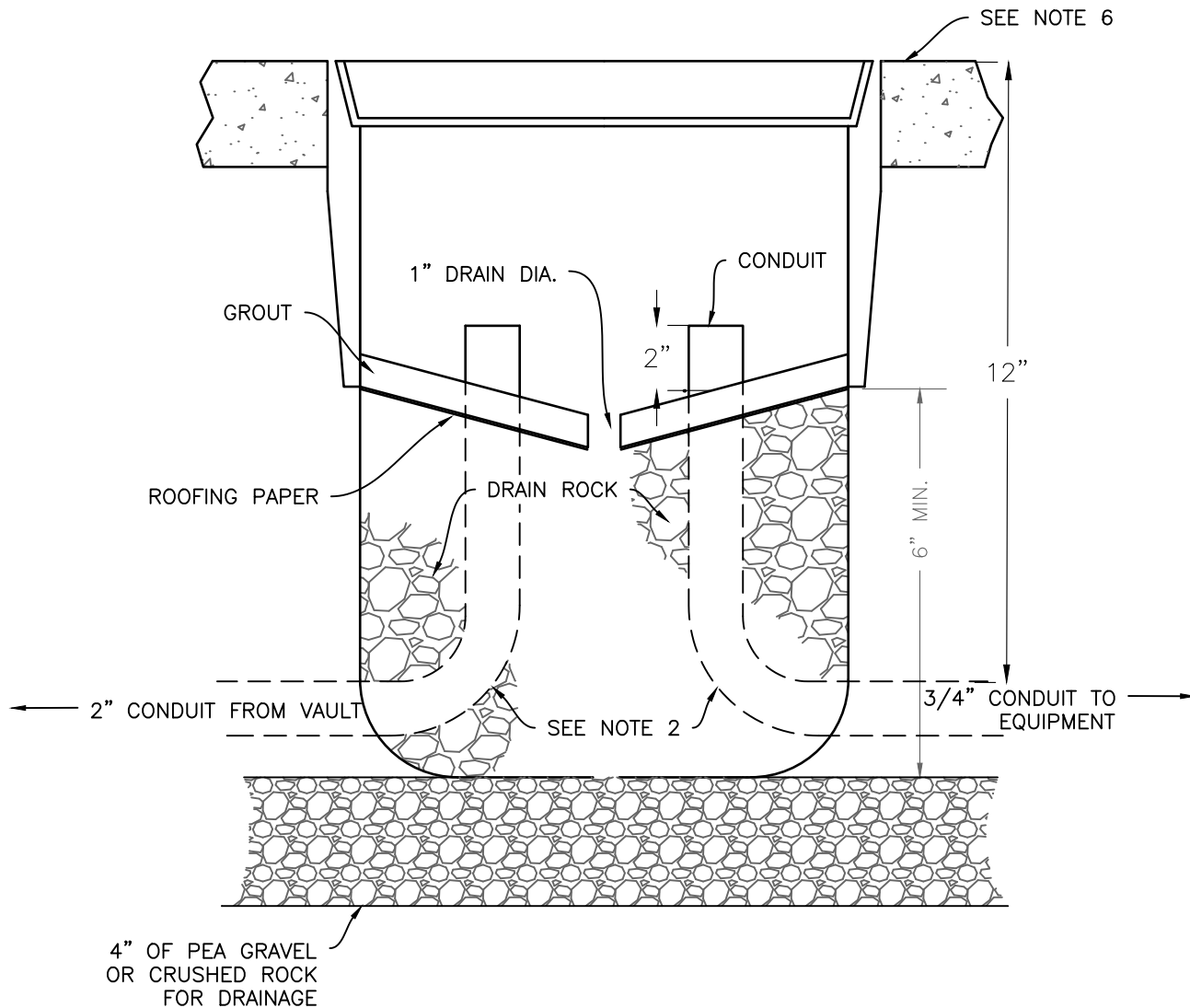
SCHEMATIC STREET LIGHT
WIRING DIAGRAM
PLAN VIEW

NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. FUSE TO BE USED AS SPECIFIED BY FIXTURE MANUFACTURER AND SHALL BE INSTALLED AT EACH PULL BOX SERVING A STREET LIGHT.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA STREET LIGHT STANDARD WIRING DIAGRAM	APPROVED BY:
UPDATE	KLR	DFC	04/2023		 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER E-01



CONCRETE PULLBOX

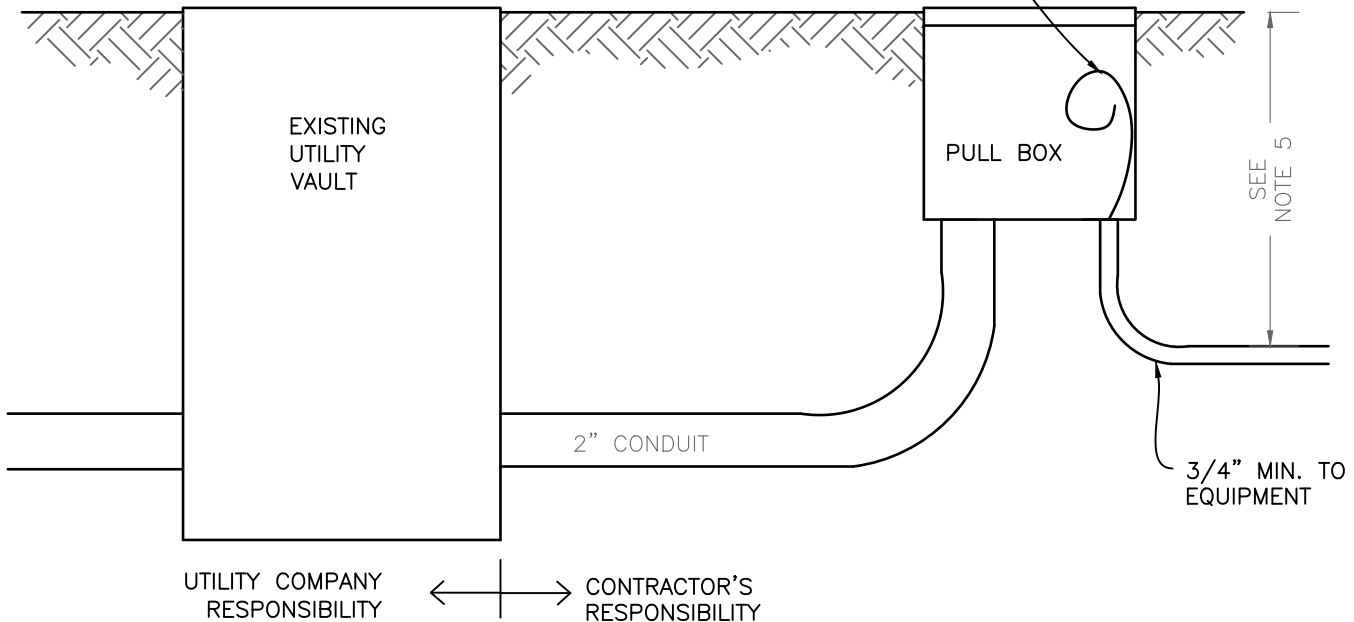
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER
2. 90° FACTORY-MANUFACTURED LONG RADIUS BEND, TYPICAL
3. PULLBOX COVERS SHALL BE BOLTED AND INSCRIBED "ELECTRICAL".
4. A STANDARD BOX AND LID SHALL BE "CHRISTY N-30" OR EQUAL, AS APPROVED BY THE CITY ENGINEER AND READ "ELECTRICAL"
5. WITHIN EACH PULL BOX, SUFFICIENT SLACK SHALL BE LEFT TO EXTEND WIRE 18 INCHES ABOVE THE TOP OF PULL BOX GRADE.
6. TOP OF BOX SHALL BE SET AT NEW CURB HEIGHT IN PLANTER AREAS
7. PULL BOX SHALL BE WIRED PER CITY STD DTL "STREET LIGHT STANDARD WIRING DIAGRAM"



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	KLK	DFC	04/2023		
				PULL BOX INSTALLATION	 N. B. KHATRI, R.C.E. #75428 DRAWING NUMBER E-02

LEAVE MIN. 36" OF SERVICE CONDUCTORS IN
PULL BOX. SPLICE TO BE MADE BY PG&E



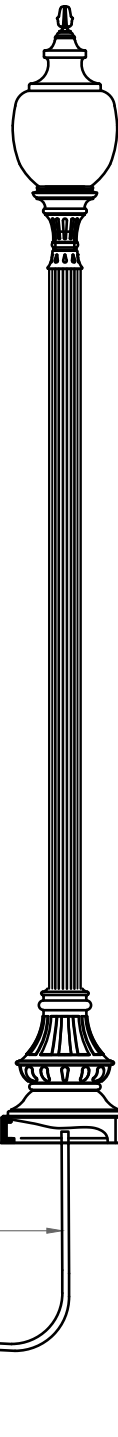
UNDERGROUND SERVICE

NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. CONTRACTOR TO INSTALL CONDUIT INTO UTILITY CO. VAULT WITH UTILITY CO. REPRESENTATIVE IN ATTENDANCE.
3. CONTRACTOR TO INSTALL PULL BOX AND 2" SERVICE CONDUIT TO UTILITY VAULT, AND 3/4" MIN. CONDUIT AND CONDUCTORS FROM PULL BOX TO EQUIPMENT.
4. CONDUIT AND CONDUCTOR PULL BOX ON SHORT SIDE OF UTILITY VAULT. NO LONG SIDE OR BOTTOM ENTRY TO UTILITY VAULT PERMITTED.
5. 3' MIN. CONDUIT DEPTH FOR SUBSURFACE TRANSFORMER & 2' MIN. FOR PAD MOUNTED TRANSFORMER.
6. FUSE AND FUSE HOLDER REQUIRED PER CITY STD DTL "STREET LIGHT STANDARD WIRING DIAGRAM".

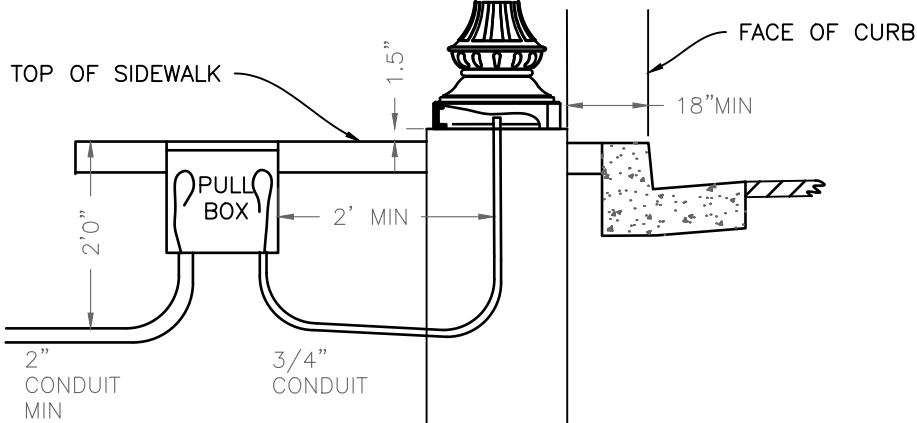


REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	KLR	DFC	04/2023		
				UNDERGROUND ELECTRIC SERVICE	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					E-03

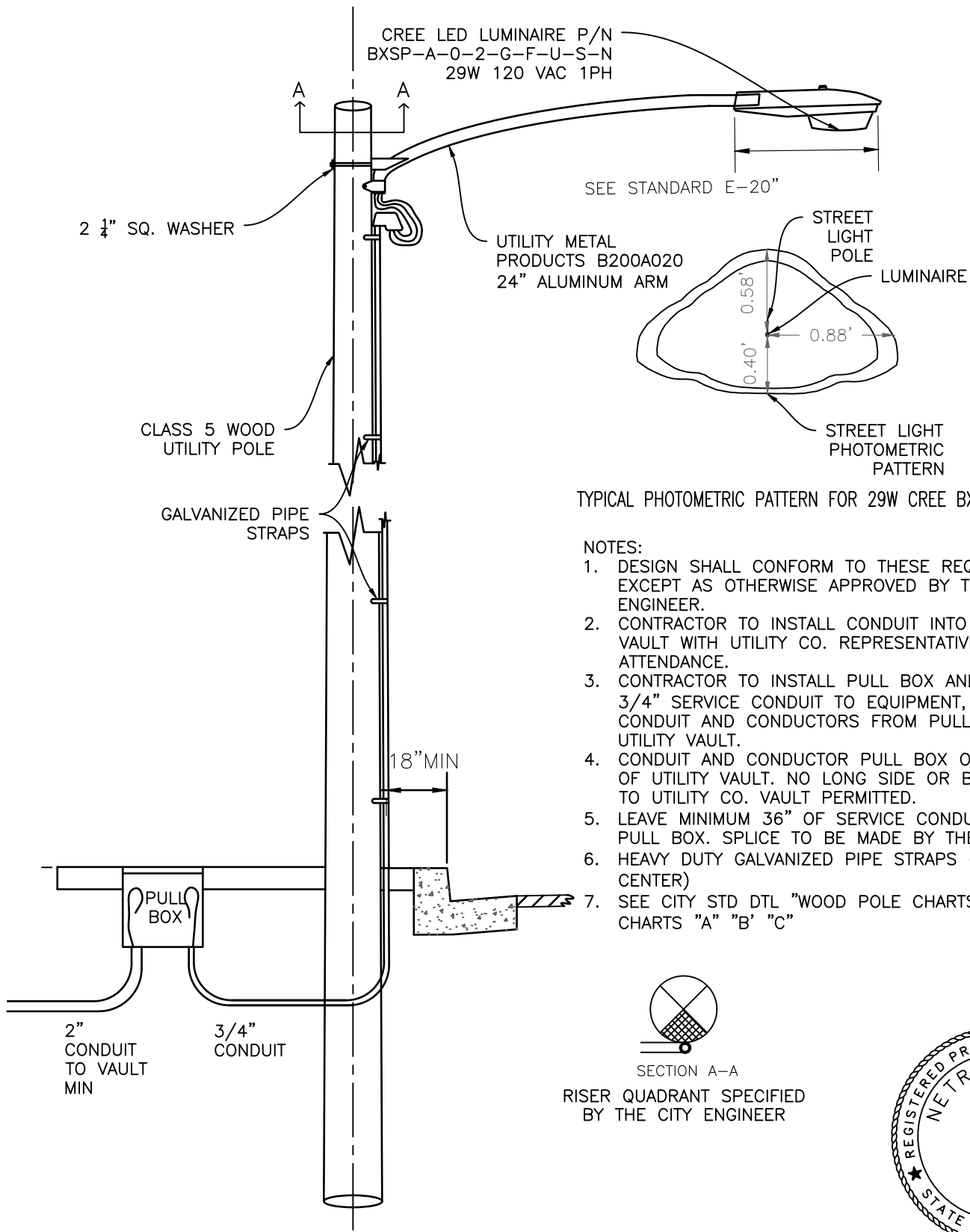


NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. CONTRACTOR TO INSTALL CONDUIT INTO UTILITY CO. VAULT WITH UTILITY CO. REPRESENTATIVE IN ATTENDANCE. CONTRACTOR TO INSTALL PULL BOX AND A MINIMUM 3/4" SERVICE CONDUIT TO EQUIPMENT, AND A 2" CONDUIT AND CONDUCTORS FROM PULL BOX TO UTILITY VAULT.
3. CONDUIT AND CONDUCTOR PULL BOX ON SHORT SIDE OF UTILITY VAULT. NO LONG SIDE OR BOTTOM ENTRY TO UTILITY CO. VAULT PERMITTED.
4. LEAVE MINIMUM 36" OF SERVICE CONDUCTORS IN PULL BOX. SPLICE TO BE MADE BY THE UTILITY CO.
5. HEAVY DUTY GALVANIZED PIPE STRAPS (30" ON CENTER)
6. SEE STANDARD E 20 FOR CHARTS "A" "B" "C"



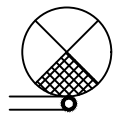
REVISION	BY	APPROVED	DATE	CITY OF ARCATA ARCHITECTURAL STREET LIGHT UNDERGROUND SERVICE	APPROVED BY:
UPDATE	KLR	DFC	04/2023		
					N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					E-14



SEE STANDARD E-20"

TYPICAL PHOTOMETRIC PATTERN FOR 29W CREE BXSP LUMINAIRE

- NOTES:
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
 2. CONTRACTOR TO INSTALL CONDUIT INTO UTILITY CO. VAULT WITH UTILITY CO. REPRESENTATIVE IN ATTENDANCE.
 3. CONTRACTOR TO INSTALL PULL BOX AND A MINIMUM 3/4" SERVICE CONDUIT TO EQUIPMENT, AND A 2" CONDUIT AND CONDUCTORS FROM PULL BOX TO UTILITY VAULT.
 4. CONDUIT AND CONDUCTOR PULL BOX ON SHORT SIDE OF UTILITY VAULT. NO LONG SIDE OR BOTTOM ENTRY TO UTILITY CO. VAULT PERMITTED.
 5. LEAVE MINIMUM 36" OF SERVICE CONDUCTORS IN PULL BOX. SPLICE TO BE MADE BY THE UTILITY CO.
 6. HEAVY DUTY GALVANIZED PIPE STRAPS (30" ON CENTER)
 7. SEE CITY STD DTL "WOOD POLE CHARTS" FOR CHARTS "A" "B" "C"



SECTION A-A
RISER QUADRANT SPECIFIED
BY THE CITY ENGINEER



REVISION	BY	APPROVED	DATE
UPDATE	KLR	DFC	04/2023

CITY OF ARCATA

WOOD POLE
UNDERGROUND
SERVICE

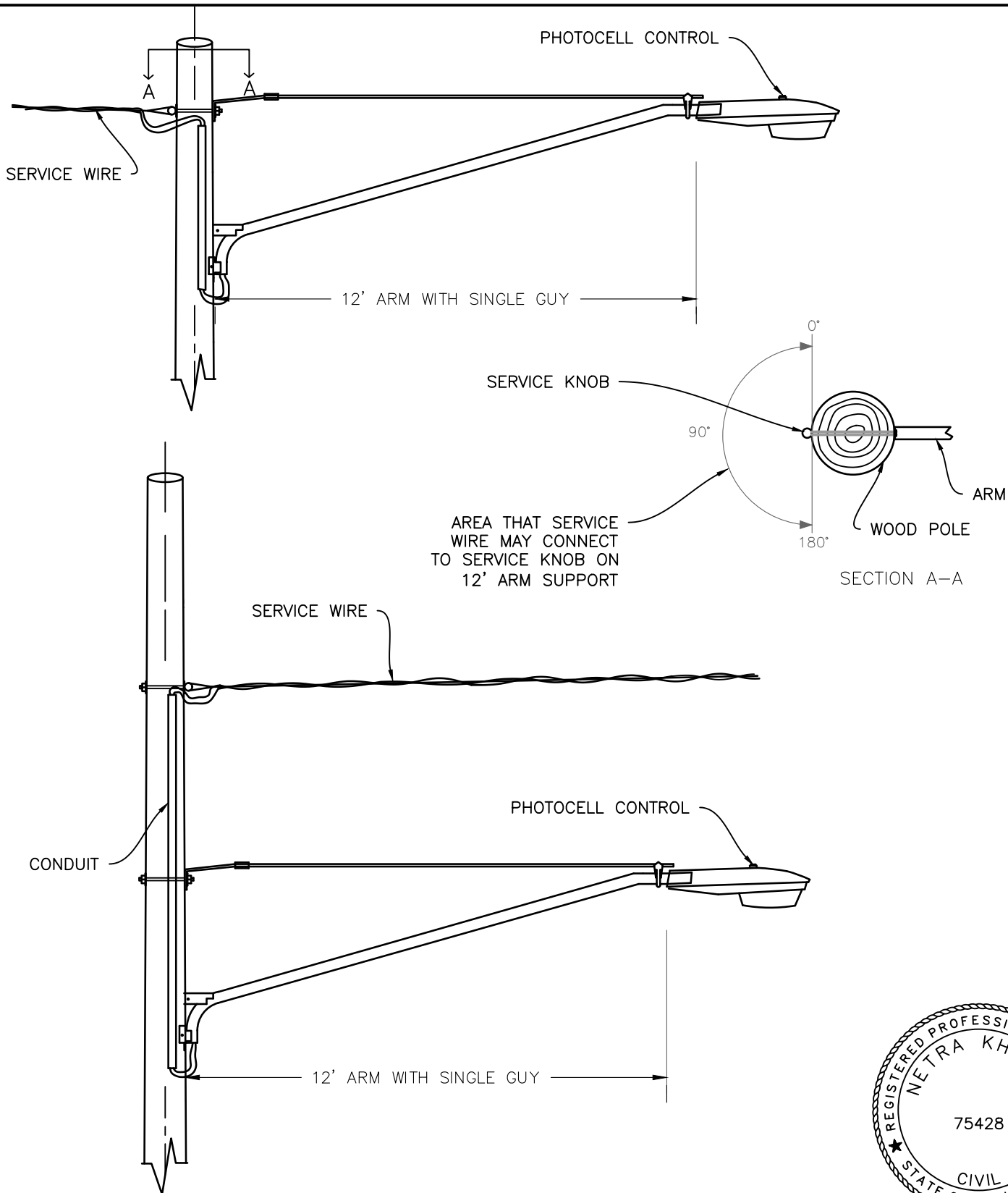
APPROVED BY: 

N. B. KHATRI, R.C.E. #75428

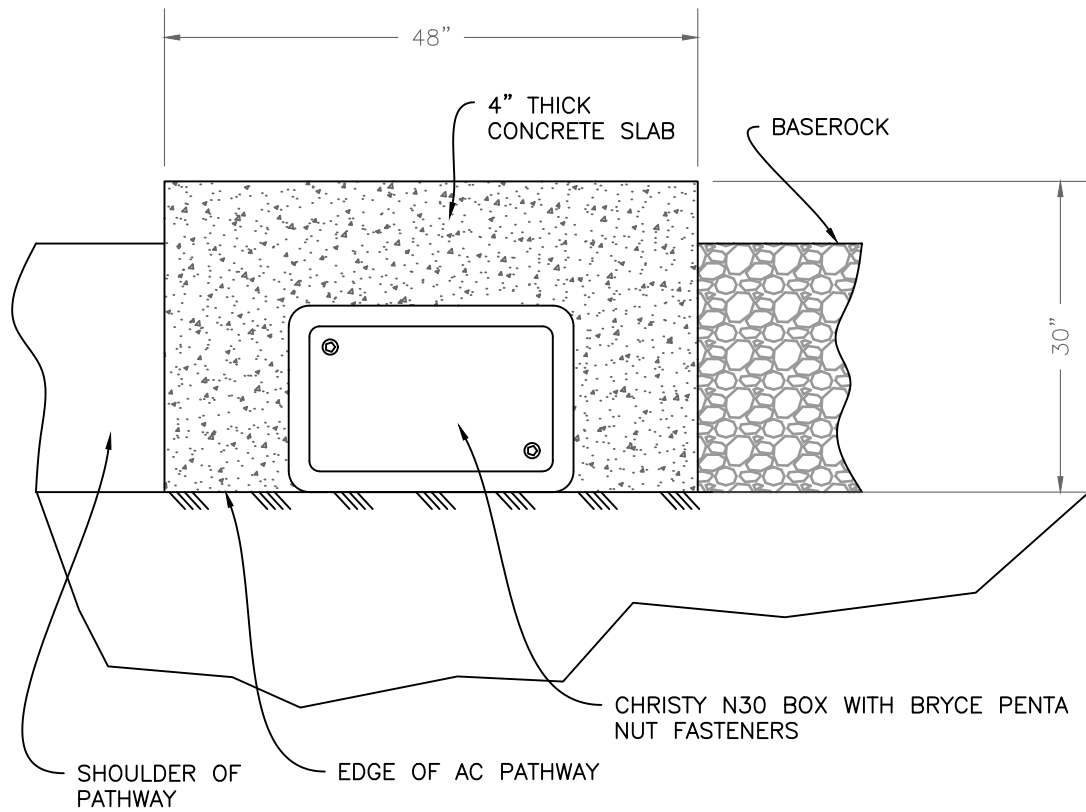
DRAWING NUMBER E-15



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:	
UPDATE	KLR	DFC	04/2023			
					DRAWING NUMBER	E-16



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY: 
UPDATE	KLR	DFC	04/2023		
				12' ARM DETAIL ON WOOD POLE	N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER E-17



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY: 
UPDATE	KLR	DFC	04/2023		
				PULL BOX NEXT TO PATHWAY	N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					E-18

CHART "A"

GALVANIZED STEEL PIPE BRACKETS (2" DIA.)

2.5 FT. CANTILEVER STYLE

6.0 FT. CANTILEVER STYLE

12.0 FT. CANTILEVER STYLE WITH SINGLE GUY

LENGTH SHALL BE APPROPRIATE TO THE SETBACK FROM THE ROADWAY

CHART "B"

ROADWAY LIGHTING SYSTEM (2" DIA.)

LUMINAIRES SHALL BE EYE IGNATRON SELF IGNITING

70 WATT HIGH PRESSURE SODIUM (HPS) LAMP (120 VOLTS)

EYE IGNATRON LU70/I/EN 70W

100 WATT HPS LAMP (120 VOLTS)

200 WATT HPS LAMP (120 VOLTS)

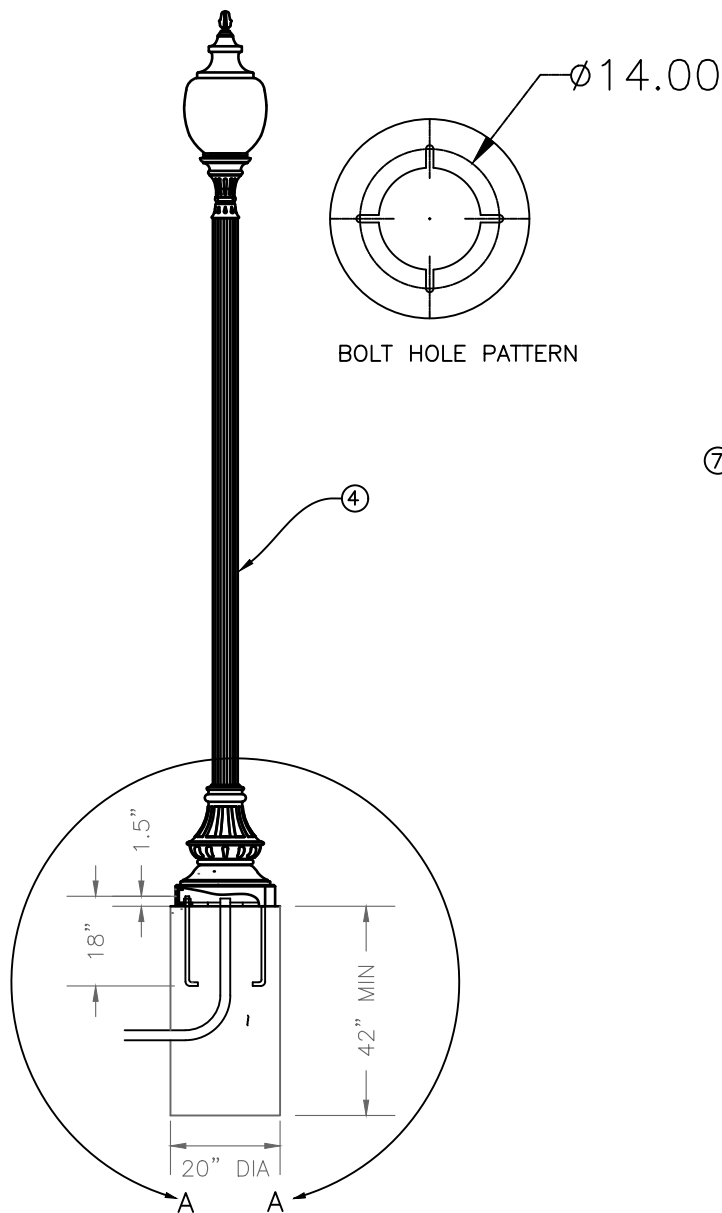
CHART "C"

POLES:

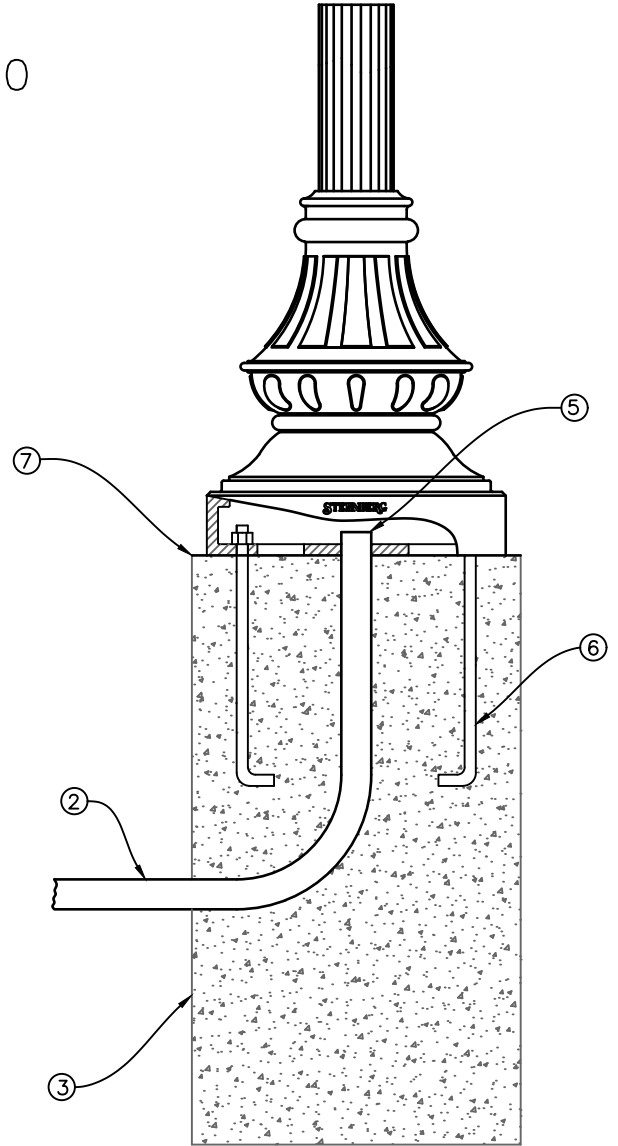
LENGTH IN FEET	DEPTH IN THE GROUND	CIRCUMFERENCE 6 FT FROM BUTT END		CIRCUMFERENCE TOP END	
		MIN.	MAX.	MIN.	MAX.
25 FEET	4.5 FEET	25.5 "	28.7 "	20.4 "	23.6 "
30 FEET	5.0 FEET	28.0 "	31.2 "	20.4 "	23.6 "
35 FEET	5.0 FEET	30.0 "	33.2 "	20.4 "	23.6 "
40 FEET	5.5 FEET	31.5 "	34.7 "	20.4 "	23.6 "



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	KLR	DFC	04/2023		
				WOOD POLE CHARTS	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					E-20



TYPICAL FOUNDATION DETAIL FOR
STERNBERG 5200 STYLE POLE BASE



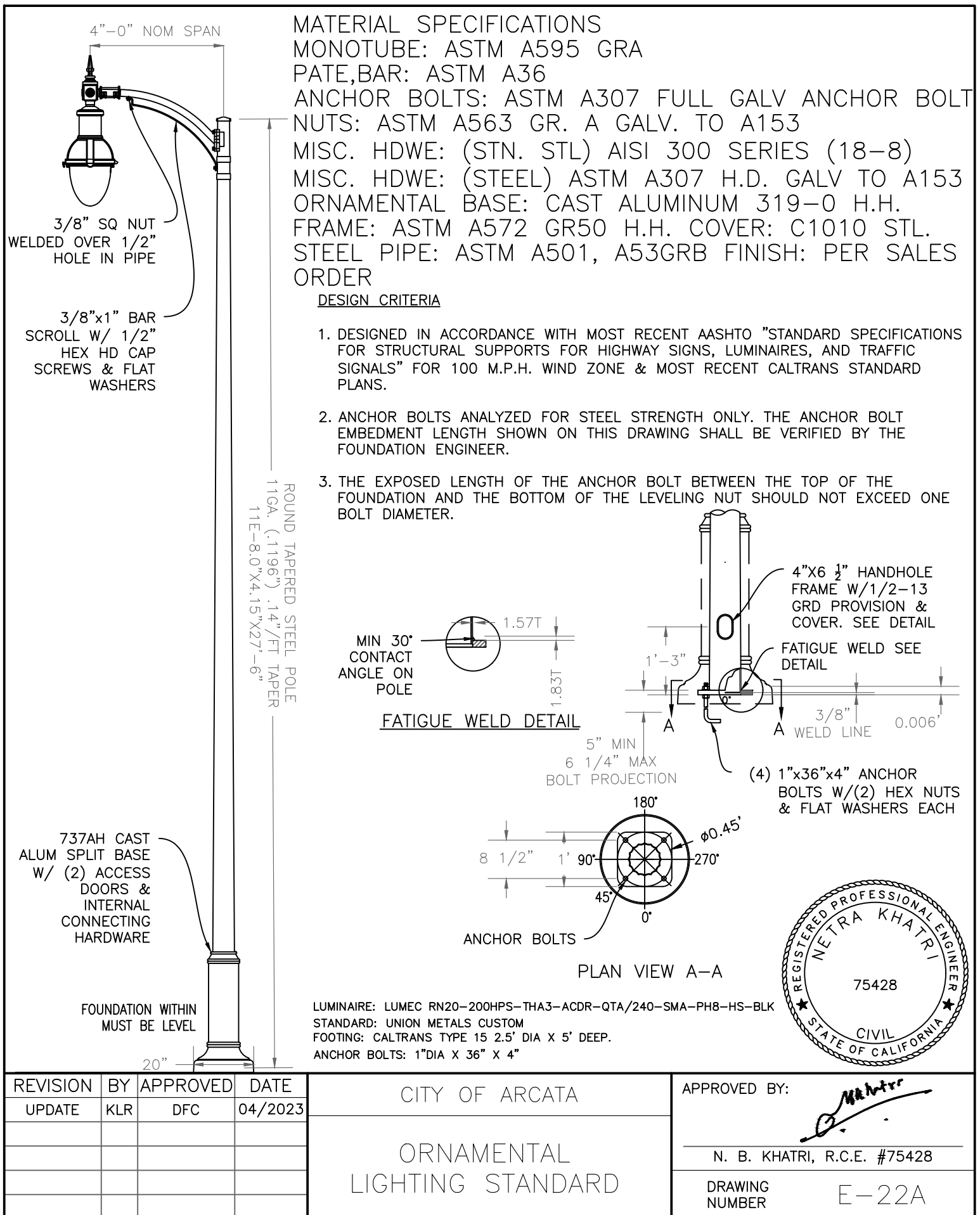
DETAIL A-A

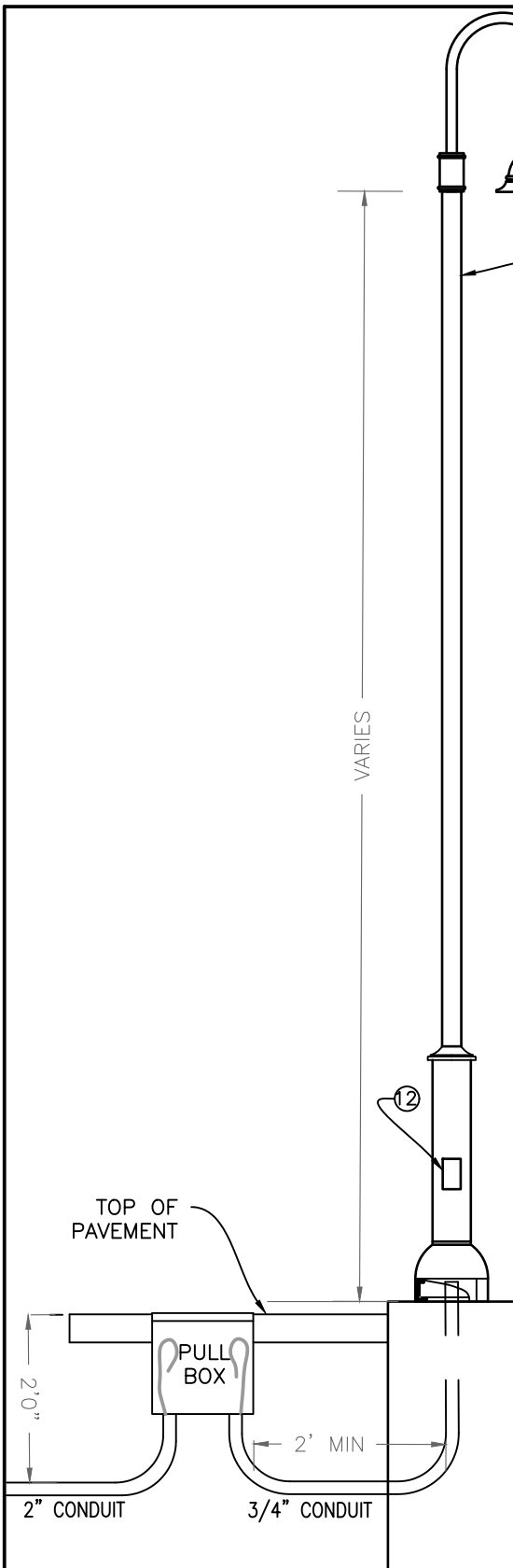
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. 3/4" PVC CONDUIT. 90° FACTORY-MANUFACTURED LONG RADIUS BEND, TYPICAL.
3. CONCRETE DEPTH MUST BE A MINIMUM OF 42 INCHES DEEP, AND 20 INCHES IN DIAMETER.
4. THIS DETAIL USED FOR INSTALLATION OF STERNBERG MODEL 5200 BARRINGTON STYLE POLE WITH A 850/A850SR OLD TOWN SERIES ACORN FIXTURE.
5. A TOTAL OF 2 FEET OF SLACK WIRE SHALL BE LEFT INSIDE EACH STANDARD.
6. 4 EACH - 3/4" DIA X 18 IN LONG, STEEL, GALVANIZED ANCHOR BOLTS.
7. NEW SL FOUNDATION TO BE 1.5" ABOVE ADJACENT CURB OR SIDEWALK.
8. STERNBERG P/N: A850SR/508/6218FP5/150HPS/MULTI/RE6G/PEC1/BK HIGH PRESS SODIUM 150 WATT.
9. BULB: WESTINGHOUSE ITEM#: 37442 LU150/MED/S55 HIGH PRESSURE SODIUM MEDIUM BASE.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	KLR	DFC	04/2023		
				ARCHITECTURAL STREET LIGHT	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER E-21





NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. CONTRACTOR TO INSTALL CONDUIT INTO UTILITY CO. VAULT WITH UTILITY CO. REPRESENTATIVE IN ATTENDANCE.
3. CONTRACTOR TO INSTALL PULL BOX AND A MINIMUM 3/4" SERVICE CONDUIT TO EQUIPMENT, AND A 2" CONDUIT AND CONDUCTORS FROM PULL BOX TO UTILITY VAULT.
4. CONDUIT AND CONDUCTOR PULL BOX ON SHORT SIDE OF UTILITY VAULT. NO LONG SIDE OR BOTTOM ENTRY TO UTILITY CO. VAULT PERMITTED.
5. LEAVE MINIMUM 36" OF SERVICE CONDUCTORS IN PULL BOX. SPLICE TO BE MADE BY THE UTILITY CO.

MANUFACTURER'S NOTES FOR P/N
DOS-35W32LED4K-T-LE2F-120-DBA-1A-BKTX:

1. HAVING A 0.250" WALL THICKNESS, WELDED TO THE POLE BASE.
2. JOINT COVER: TWO-PIECE ROUND JOINT COVER MADE FROM CAST 356 ALUMINUM, MECHANICALLY FASTENED WITH STAINLESS STEEL SCREWS.
3. POLE BASE: SHALL BE MADE FROM A 5" ROUND HIGH TENSILE CARBON STEEL TUBING BASE HAVING A 0.180" WALL THICKNESS, WELDED TO BOTH THE BOTTOM AND TOP OF THE ANCHOR PLATE.
4. MAINTENANCE OPENING: THE POLE SHALL HAVE A 2" X 4" MAINTENANCE OPENING CENTERED 20" FROM THE BOTTOM OF THE ANCHOR PLATE, COMPLETE WITH A WEATHERPROOF ALUMINUM COVER AND A COPPER GROUND LUG.
5. BASE COVER: TWO PIECE ROUND BASE COVER MADE FROM CAST 356 ALUMINUM, MECHANICALLY FASTENED WITH STAINLESS STEEL SCREWS.
6. TENON: A TENON WILL BE PROVIDED WHEN THE LUMINAIRE OR BRACKET DOES NOT FIT DIRECTLY ON THE POLE SHAFT. [TENON NOT SHOWN ON THE DRAWING]
7. MANUFACTURER STRONGLY RECOMMENDS THE INSTALLATION OF THE COMPLETE LIGHTING ASSEMBLY WITH ALL OF ITS ACCESSORIES UPON THE ANCHORING OF THE POLE. THIS WILL ENSURE THAT THE STRUCTURAL INTEGRITY OF THE PRODUCT IS MAINTAINED THROUGHOUT ITS LIFETIME.
8. ANCHOR BOLTS: USE 4 EACH" X 17" + 3" FULLY HOT DIP GALVANIZED J BOLTS. MANUFACTURER SUPPLIES 8 NUTS & WASHERS. IMPORTANT: DO NOT OBSTRUCT SPACE BETWEEN ANCHOR PLATE AND CONCRETE BASE.
9. BOLT CIRCLE: 8"
10. FOOTING: PER MANUFACTURER SPECIFICATIONS.
11. WHEN PURCHASING THIS ASSEMBLY MAKE SURE TO SPECIFY THAT IT REQUIRES A FACTORY PHOTOCELL BE INSTALLED.
12. IF USING A BREAKAWAY FUSE HOLDER, FUSES SHOULD BE IN BASE OF POLE, NOT PULL BOX.



REVISION	BY	APPROVED	DATE
UPDATE	KLR	DFC	04/2023

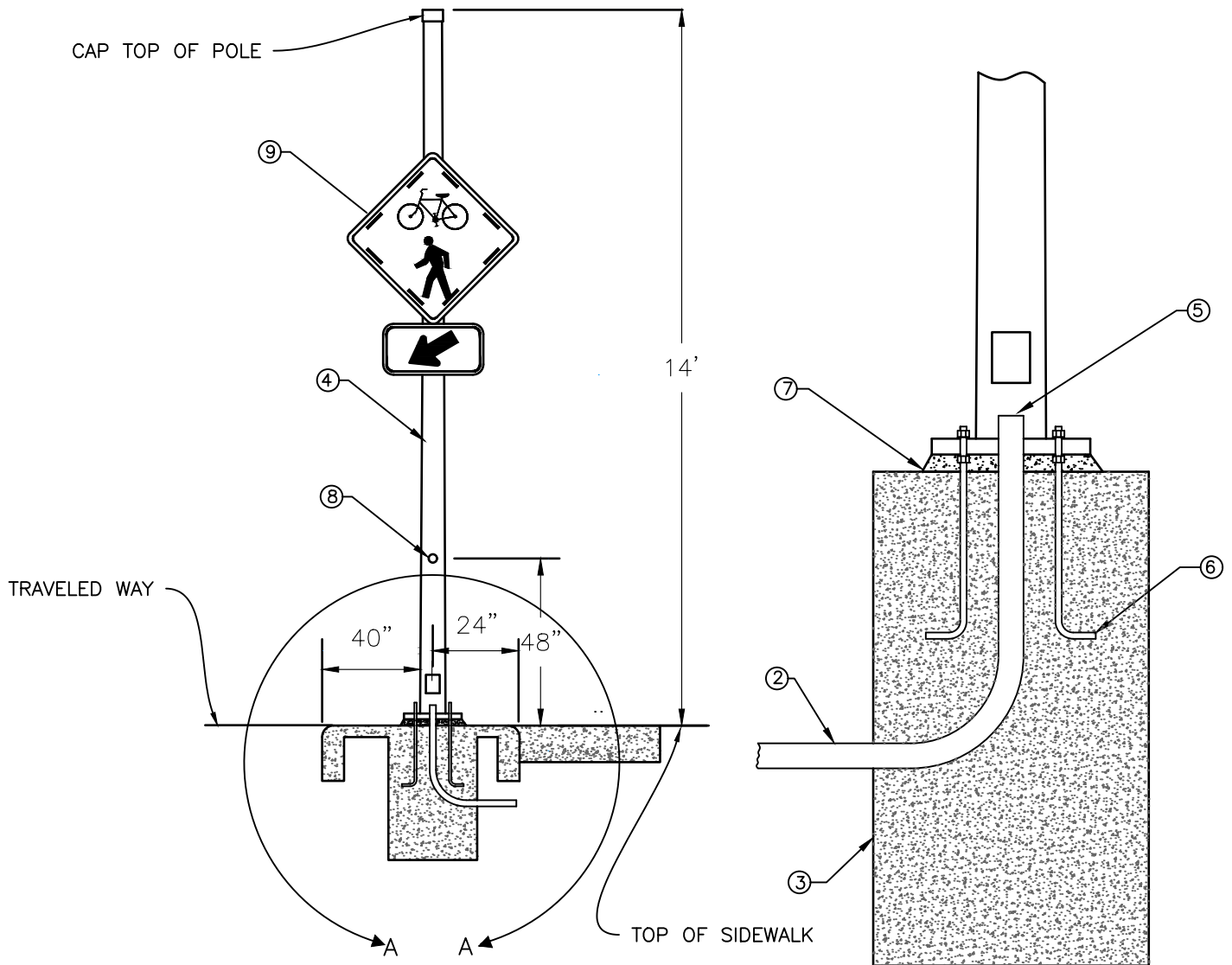
CITY OF ARCATA
ARCHITECTURAL
STREETLIGHT LUMEC
DOMUS DOS

APPROVED BY:

N. B. KHATRI, R.C.E. #75428

DRAWING
NUMBER

E-23



TYPICAL DETAIL FOR "LIGHT GUARD" LED
ENHANCED PEDESTRIAN CROSSING SIGN

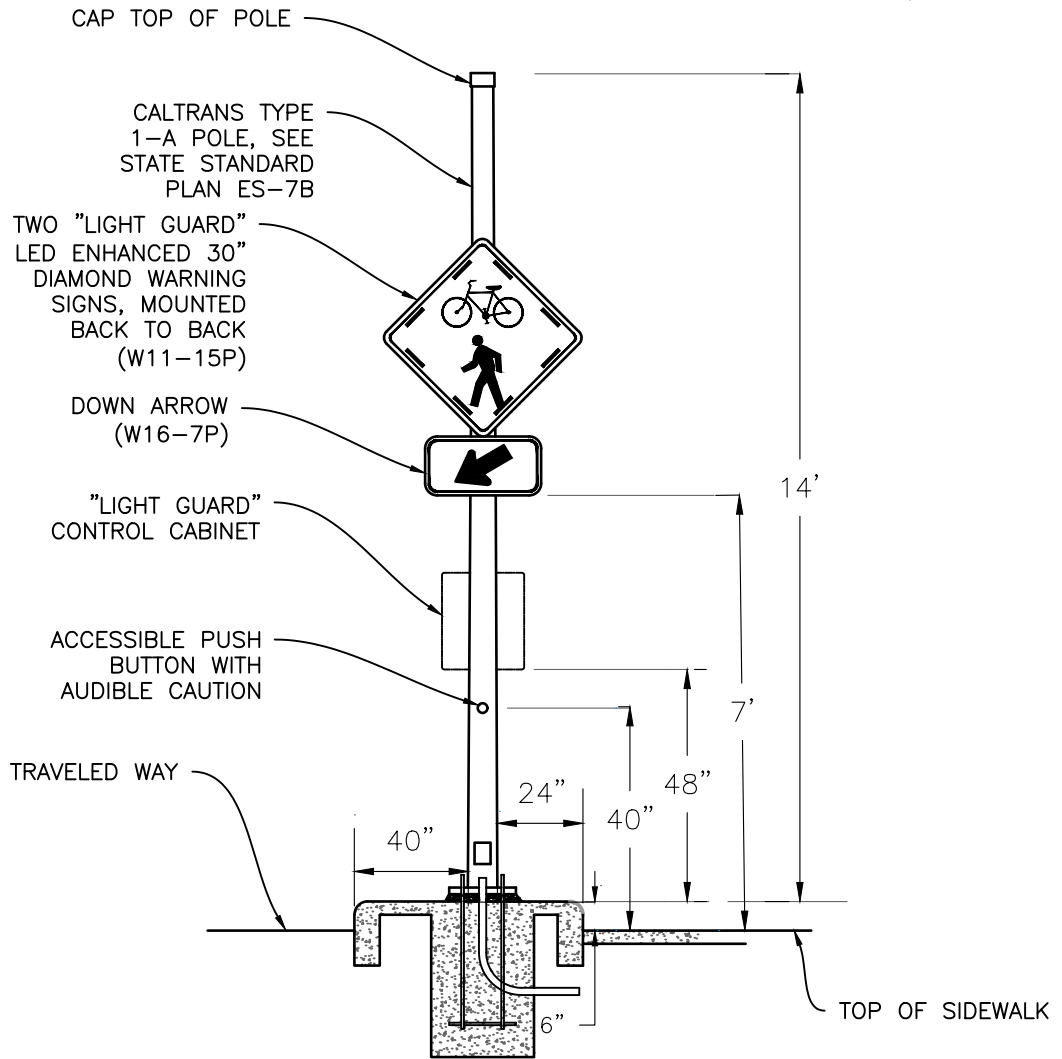
DETAIL A-A

NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER. VERIFY LOCATION WITH ENGINEER PRIOR TO PLACING FOUNDATION.
2. 2" PVC CONDUIT. 90° FACTORY-MANUFACTURED LONG RADIUS BEND, TYPICAL.
3. POLE FOUNDATION MUST BE A MINIMUM OF 42 INCHES DEEP, AND 24 INCHES IN DIAMETER.
4. CALTRANS TYPE 1-A POLE SEE STATE STD. PLAN ES-7B. LOCATION PER MUTCD FIG. 4E-3
5. A TOTAL OF 2 FEET OF SLACK WIRE SHALL BE LEFT INSIDE EACH POLE.
6. 4 EACH - 3/4" DIA X 18 IN LONG, STEEL, GALVANIZED ANCHOR BOLTS.
7. DRY PACK WITH NON-SHRINK GROUT UNDER POLE BASE.
8. HOLE FOR "LIGHT GUARD" ADA PUSH BUTTON LGS-PBA-PAIR TO BE 40" TO 48" MAX. ABOVE WALK
9. "LIGHT GUARD" LED ENHANCED 30" DIAMOND WARNING SIGN W11-15P (BIKE PED CROSSING) OR W11-2B (PED CROSSING) WITH W16-7P UNDERNEATH



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	KLR	DFC	04/2023		
				LED ENHANCED CROSSING SIGN	 N. B. KHATRI, R.C.E. #75428 DRAWING NUMBER E-24A



TYPICAL DETAIL FOR "LIGHT GUARD" LED
ENHANCED PEDESTRIAN CROSSING SIGN

NOTES:

1. WORK SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS, STANDARD SPECIFICATIONS AND THE CA MUTCD.
2. 2" PVC CONDUIT. 90° FACTORY-MANUFACTURED LONG RADIUS BEND. TYPICAL
3. POLE LOCATION SHALL CONFORM TO SEC. 4E OF CA MUTCD.
4. A MINIMUM OF 2 FEET OF SLACK WIRE SHALL BE LEFT INSIDE EACH POLE.
5. FOUNDATION AND BOLTS SHALL CONFORM TO CALTRANS STANDARDS.
6. CONTROL CABINET SHALL BE RAISED TO 7' IF ON SIDEWALK SIDE OF POLE



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	KLR	DFC	04/2023		
				LED ENHANCED CROSSING SIGN	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER E-24B