

3. SOLAR PANEL:

THE SOLAR PANEL(S) WILL BE HIGH EFFICIENCY, SINGLE CRYSTAL SILICON SOLAR CELLS THAT ARE LAMINATED TO GLASS WITH LAYERS OF ETHYLENE VINYL ACETATE (EVA). THE PANEL WILL BE SELF-CLEANING, IMPACT RESISTANT HIGHLY TRANSMISSIVE, TEMPERED GLASS SUPERSTATE. THE PANEL MODULE FRAME WILL BE MADE OF EXTRUDED, POLYMER COATED ALUMINUM ALLOY OR SIMILAR APPROVED CONSTRUCTION. THE PANEL MODULE JUNCTION BOX WILL BE A UV RESISTANT, WEATHERPROOF WIRE TERMINATION SYSTEM WHICH HANDLES #18 AWG – #8 AWG WIRING. THE MINIMUM ACCEPTABLE WATTAGE OF THE SOLAR PANEL WILL BE 250 WATTS.

4. BATTERIES

THE 2 BATTERIES WILL BE TYPE 31 ABSORBED GLASS MAT (AGM) LEAD ACID TYPE 12 VOLT DC BATTERIES. THE BATTERIES WILL CONTAIN VALVE REGULATION WITH A SELF DISCHARGE RATE OF 1% PER MONTH OR LESS (AT 68 DEGREES F). THE BATTERIES WILL UTILIZE T881 TERMINALS. THE POSITIVE TERMINALS WILL BE COVERED WITH A RUBBER BOOT TO PROTECT THE BATTERY FROM ACCIDENTAL SHORTING.

5. POLE AND BASE

THE POLE WILL BE A SCHEDULE 80 SPUN ALUMINUM 4" ID (4.5" OD) x 16' H. THE BASE WILL BE A BREAKAWAY BASE SIMILAR TO PELCO PART NUMBER PB-5340. A SET OF 4 ANCHOR BOLTS WILL BE PROVIDED. THE ANCHOR BOLTS WILL BE 3/4" x 10" AND WILL BE SIMILAR TO PELCO PART NUMBER PB-5306. A POLE COLLAR ASSEMBLY AND A POLE CAP WILL ALSO BE PROVIDED. POLE COLLAR SHALL BE WELDED TO POLE AND BASE AFTER ASSEMBLY.

6. WARRANTY

A MINIMUM OF ONE YEAR WARRANTY FROM THE DATE OF SYSTEM INSTALLATION WILL BE REQUIRED FOR ALL SYSTEM COMPONENTS. THE BATTERY WILL BE PRO-RATED WARRANTED FOR 5 YEARS. THE SOLAR PANEL WILL BE WARRANTED FOR 20 YEARS. ALL SHIPPING COSTS FOR WARRANTY REPAIRS WILL BE PAID BY THE VENDOR.

7. POLE FOUNDATION

FOUNDATION SHALL BE 36" ROUND AND 36" DEEP WITH 3-#4 REBAR HOOPS AND 4-#4 REBAR VERTICALS. REBAR SHALL NOT TOUCH FOUNDATION HOLE SIDES OR BOTTOM AND SHALL HAVE TOOL FINISHED EDGES. CONCRETE SHALL BE CLASS 5 (1-1/2) CONCRETE.



CITY OF PUYALLUP

DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SOLAR POWERED ACTIVE SPEED DISPLAY SIGN NOTES (2)

<small>DRAWN BY</small> JIM ERWIN-SVOBODA	<small>CHECKED BY</small> LINDA LIAN	<small>APPROVED BY</small> COLLEEN HARRIS	<small>REVISED BY</small> XXXX	<small>CITY STANDARD</small>
<small>FILE NAME</small> F:\DWG\COMMON\STDS\CITY\STDS\STR\01.07\01.07.02	<small>DATE APPROVED</small> 07/01/2009	<small>DATE REVISED</small> XX/XX/XX	<small>SCALE</small> 1:1	01.07.02