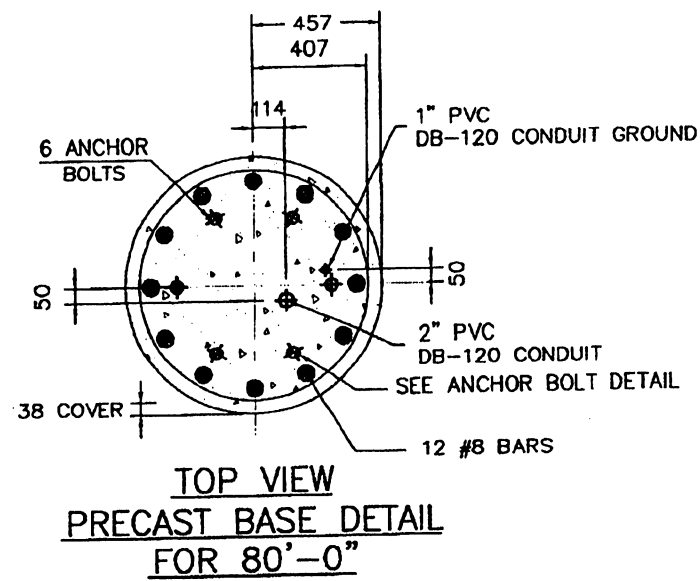
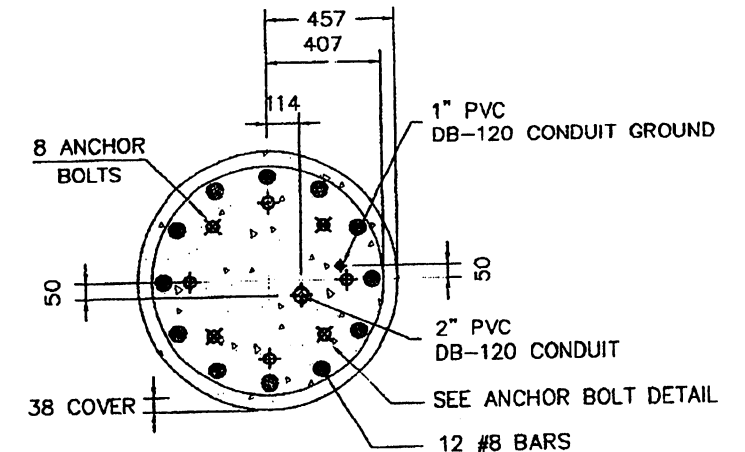


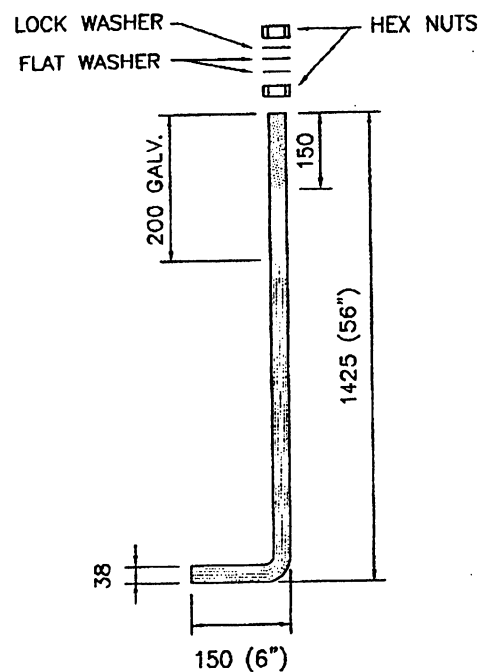
ELEVATION VIEW
PRECAST BASE DETAIL



TOP VIEW
PRECAST BASE DETAIL
FOR 80'-0"



TOP VIEW
PRECAST BASE DETAIL
FOR 100'-0"



ANCHOR BOLT, NUTS AND WASHER
DETAILS

GENERAL NOTES:

1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. THE CONTRACTOR MAY ELECT TO FURNISH A PRECAST BASE IN LIEU OF THE CAST IN PLACE BASE.
3. EXCAVATION SHALL BE PERFORMED USING AN AUGER WITH A DIAMETER NOT GREATER THAN 1000 MILLIMETERS.
4. AFTER THE PRECAST CONCRETE BASE HAS BEEN LEVELED TO A DEVIATION FROM LEVEL NOT GREATER THAN 3 MILLIMETERS WITHIN THE BASE DIAMETER, THE EXCAVATION SHALL BE BACKFILLED USING A SATURATED CLEAN SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
5. ANCHOR BOLT SHALL BE HOT BENT AND SHALL MEET THE REQUIREMENTS OF ASTM A-675 GRADE 90 OR ASTM F1554, GRADE 55 NUT SHALL MEET REQUIREMENTS OF ASTM A-563 GRADE A AND ANSI B18.2.2 HEX TYPE.
6. FLAT WASHER SHALL MEET THE REQUIREMENTS OF ANSI B27.2 HEAVY WASHER.
7. LOCK WASHER SHALL MEET THE REQUIREMENT OF ANSI 18.21.1 HEAVY WASHER.
8. ANCHOR BOLTS, NUTS AND WASHER SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH, ASTM A-153, CLASS C.

DESIGN REFERENCES:

1. STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS AND HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, 1994.

BASE MATERIALS :

1. CONCRETE CLASS "A" $f_c = 3,000$ PSI
 f_c = UNIT ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AS DETERMINED BY CYLINDER TEST AT THE AGE OF 28 DAYS.
2. REINFORCING STEEL AASHTO M31 (ASTM A615) GRADE 60.

DESIGN DATA:

1. ANGLE OF INTERNAL FRICTION 25°.
2. SOIL DENSITY 120 PCF.

DESIGN LOADS:

1. WIND - 110 M.P.H.

ALLOWABLE LOADS BASE DESIGN:

1. AXIAL LOAD 4,316 POUNDS
2. LATERAL LOAD 2,310 POUNDS
3. MOMENT 121,310 POUNDS-FOOT

EFFECTIVE DATE: MAY 1998

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
HIGHWAY LIGHTING ALTERNATE BASES		
PRECAST BASE FOR ROUND HIGH MAST 80'-0" AND 100'-0" HIGH		
DATE	REVISION	BY
STD.	LS	
DWG.	17A OF 17	