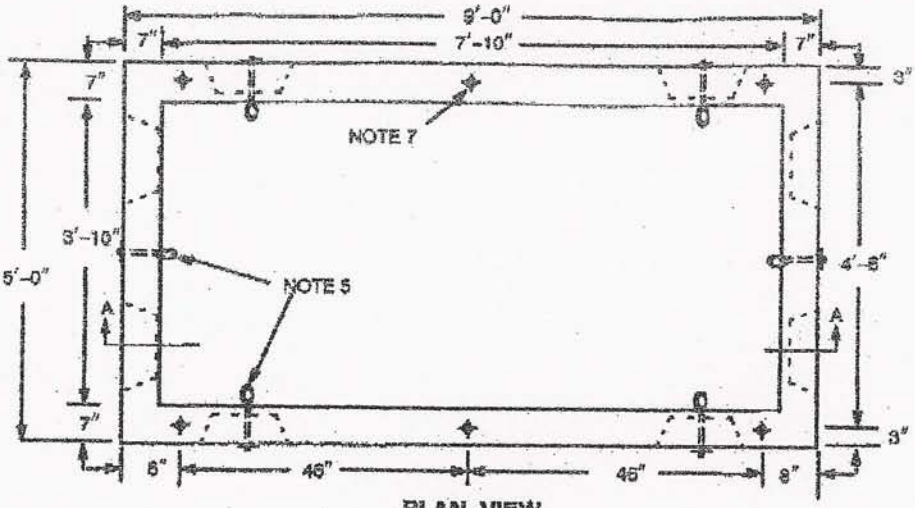
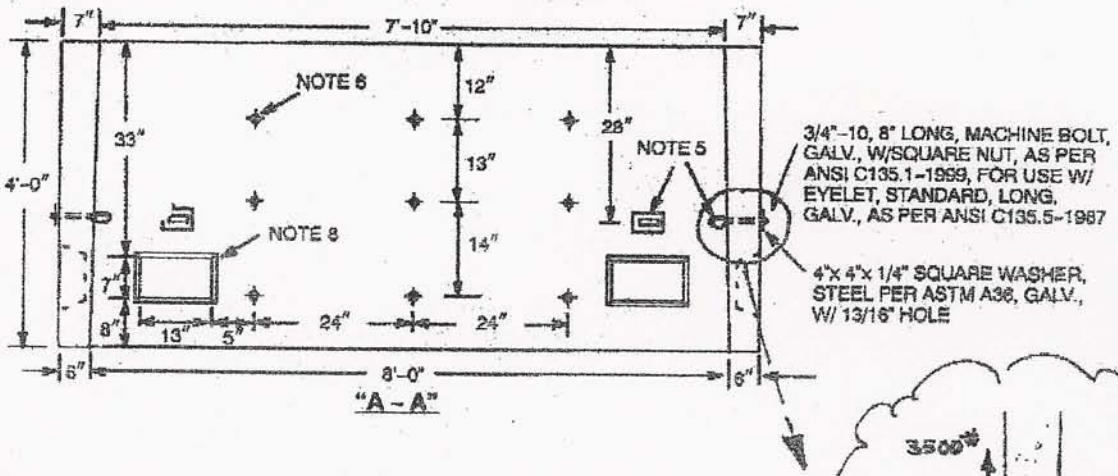
2002-156 2/12

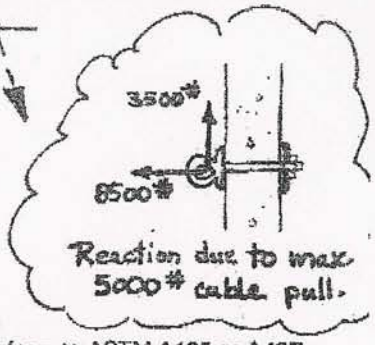
NORTHEAST UTILITIES HANDHOLE



PLAN VIEW



"A - A"



Notes

1. Concrete and concrete design shall be in accordance with ACI 318-95.
2. Concrete strength shall be 5000 psi at 28 days. Air entrainment 6 to 8 percent.
3. Handhole walls shall be designed for the following loads:
   - Soil pressure of not less than equivalent fluid pressure of 33 pcf.
   - Surcharge of 2.5 ft. of soil weighing 120 pcf.
   - Twice the load to be applied at pulling points, per 1997 NESC 323.A.5 (Note 5).
4. Rebar shall conform to ASTM A615, Gr. 40 or Gr. 60. Welded wire mesh shall conform to ASTM A185 or A497.
5. Eyelets, for use at pulling points, shall be installed in (6) places adjacent to and centered above knockouts on long walls and centered on end walls as shown. Maximum cable pull of 5000 lbs.
6. Zinc alloy inserts 1/2-inch-13 x 1-1/2 inches shall be installed in (18) places.
7. Zinc alloy inserts 3/8-inch-16 x 1-3/8 inches shall be installed in (6) places.
8. All knockouts shall have a web thickness not to exceed 3/4" +/- 1/8". Knockouts shall be clear of reinforcement.
9. Knockout location shall be identifiable from interior of handhole by providing a 3-inch diameter circle imprinted 1/4-inch deep into concrete at center of knockout location.
10. Manufacturer's identification and month/year manufactured shall be legibly marked in/on concrete.

ORIGINAL	HANDHOLE - 3-PHASE SPLICE - PRECAST CONCRETE		
APPROVED	4'-0" X 8'-0" X 4'-0"		
	NORTHEAST UTILITIES	MATERIAL SPECIFICATION	NU 2316