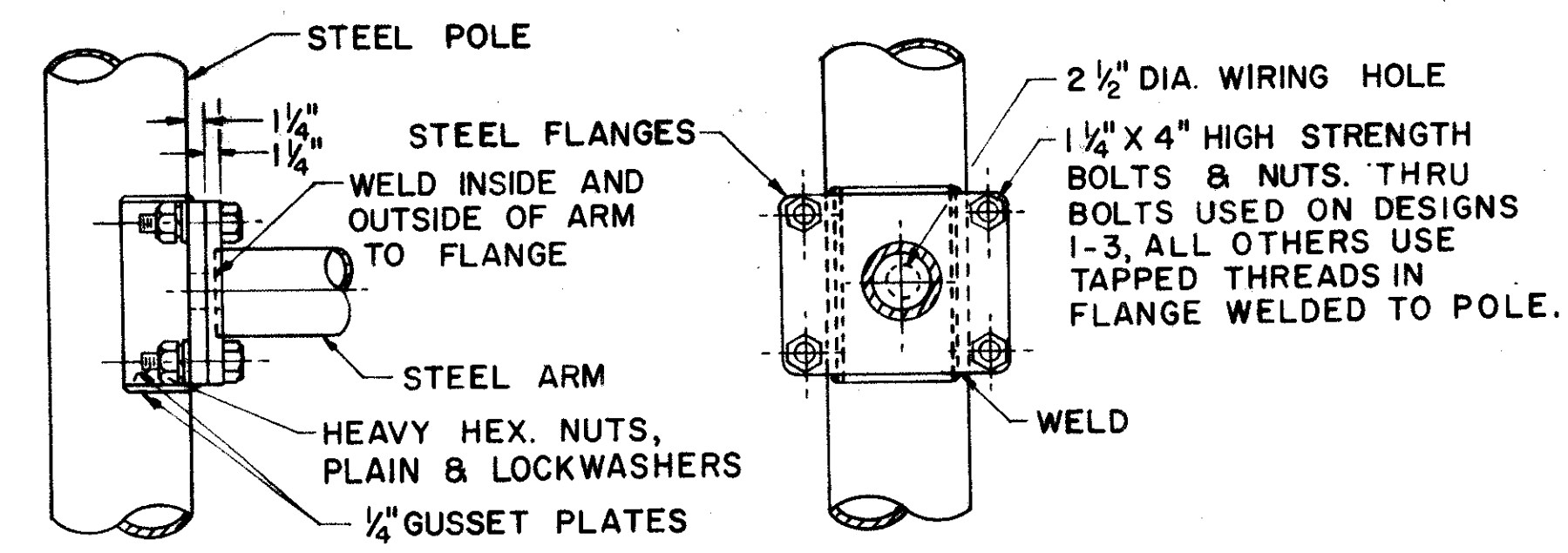
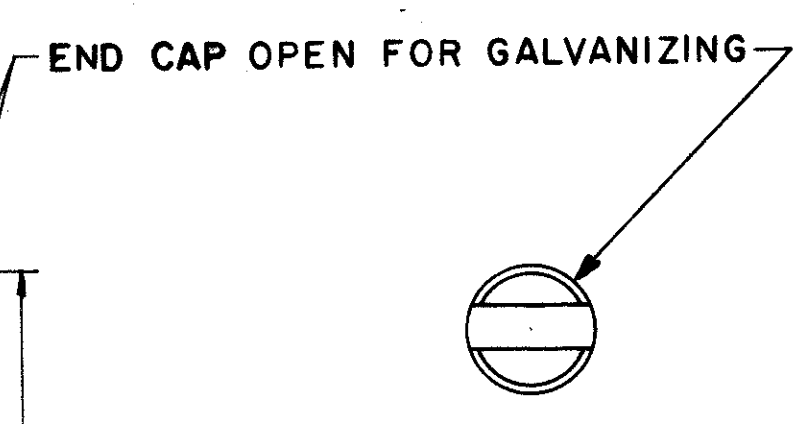
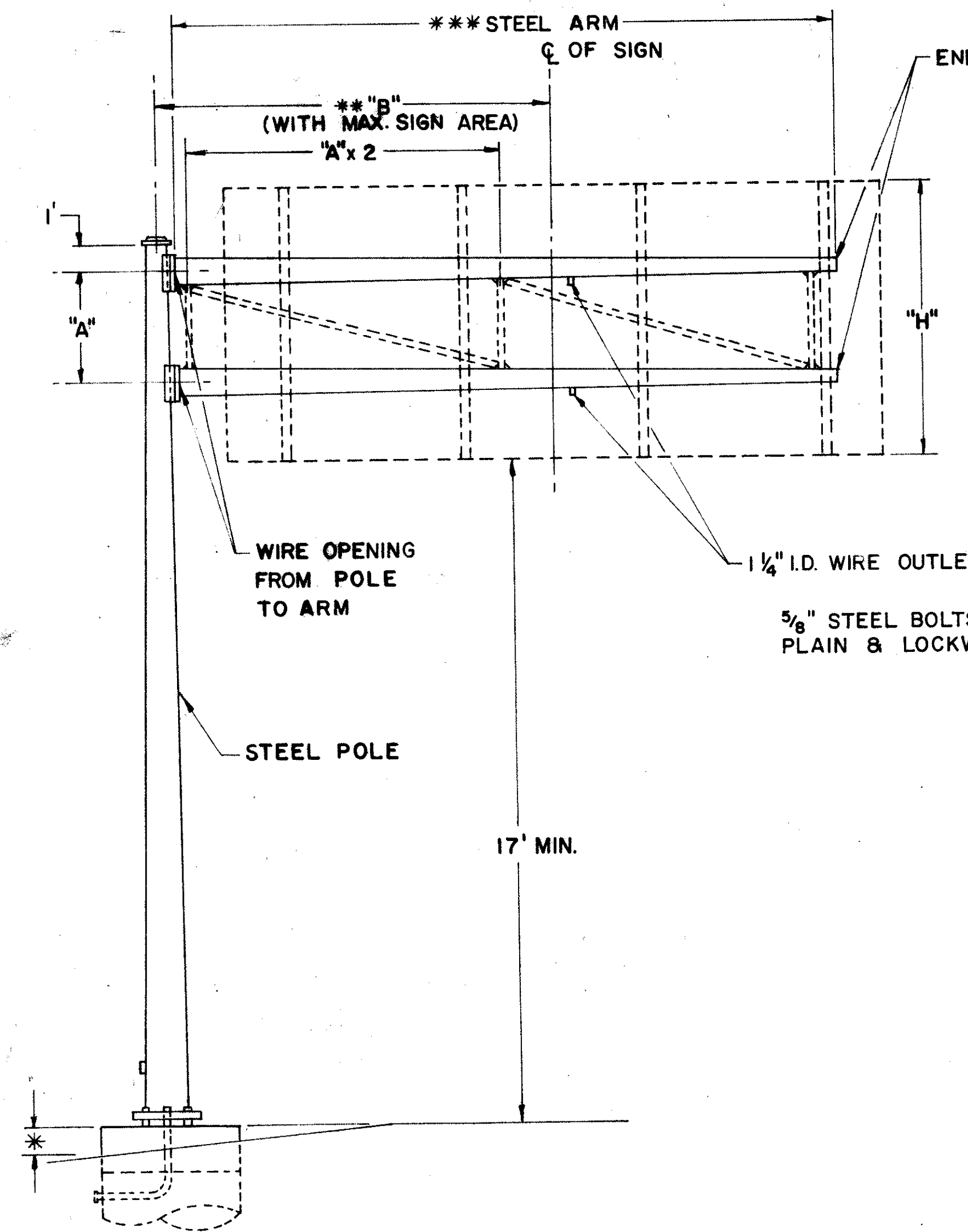
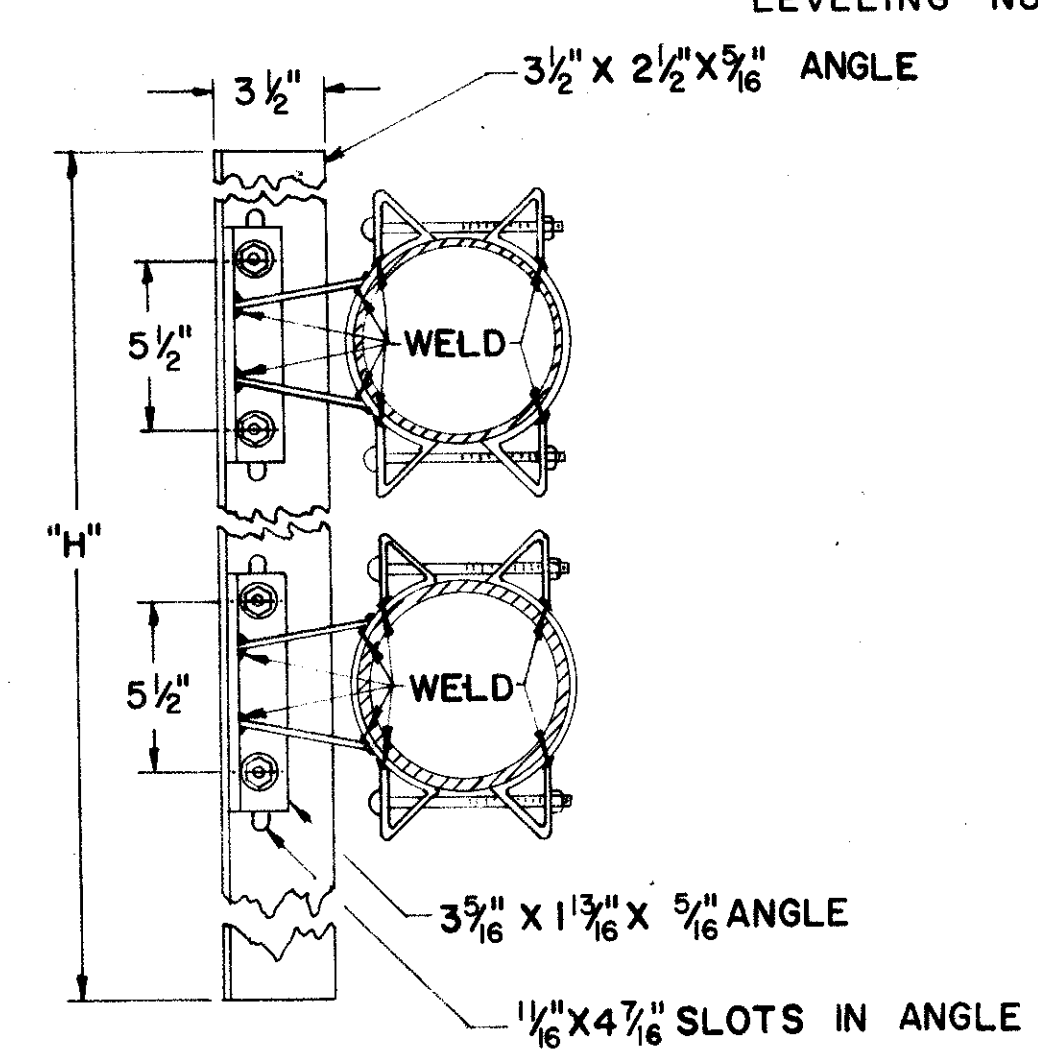
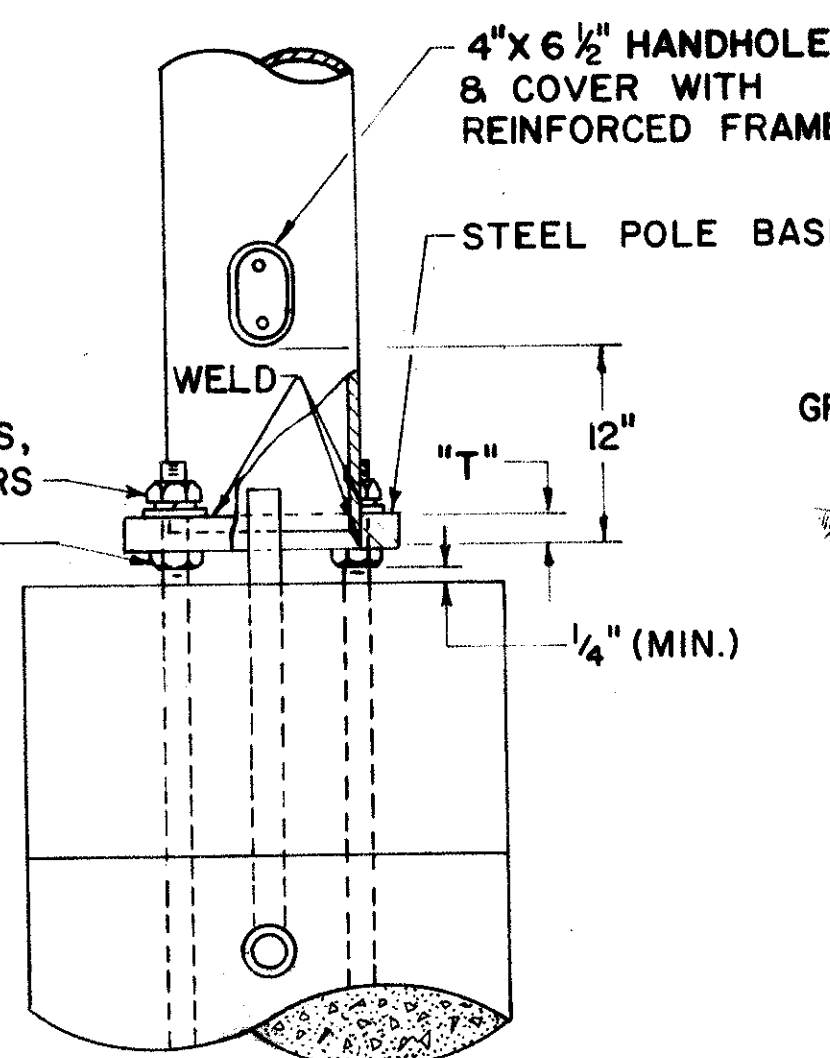
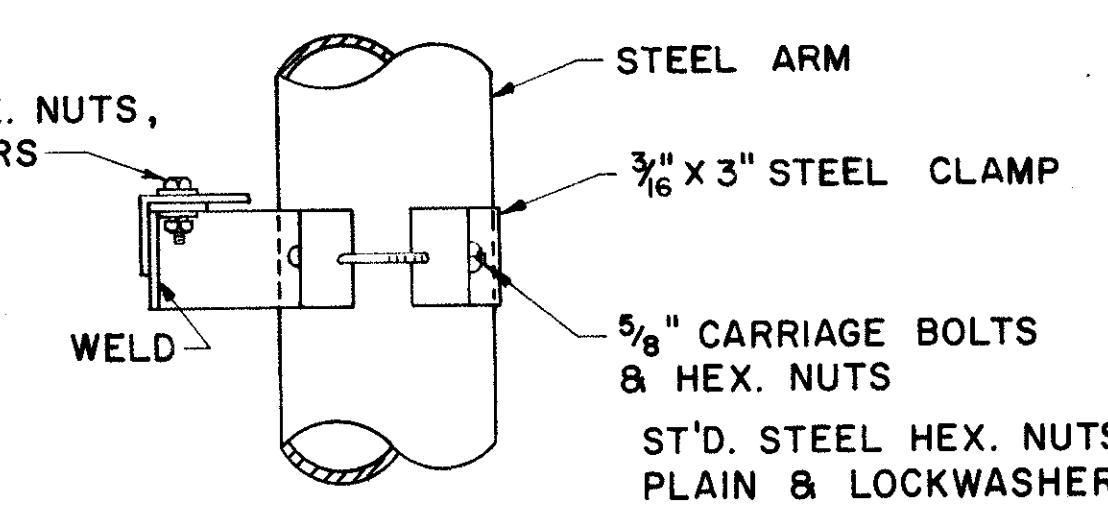
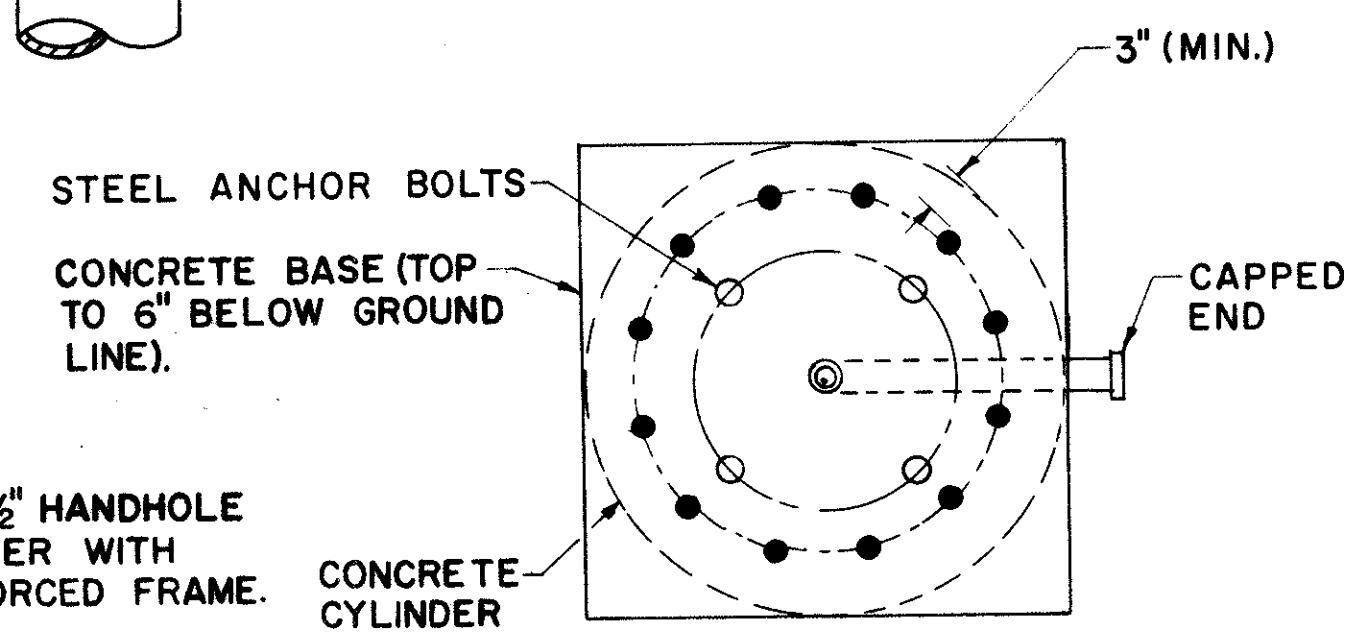


LAK-2-0.02



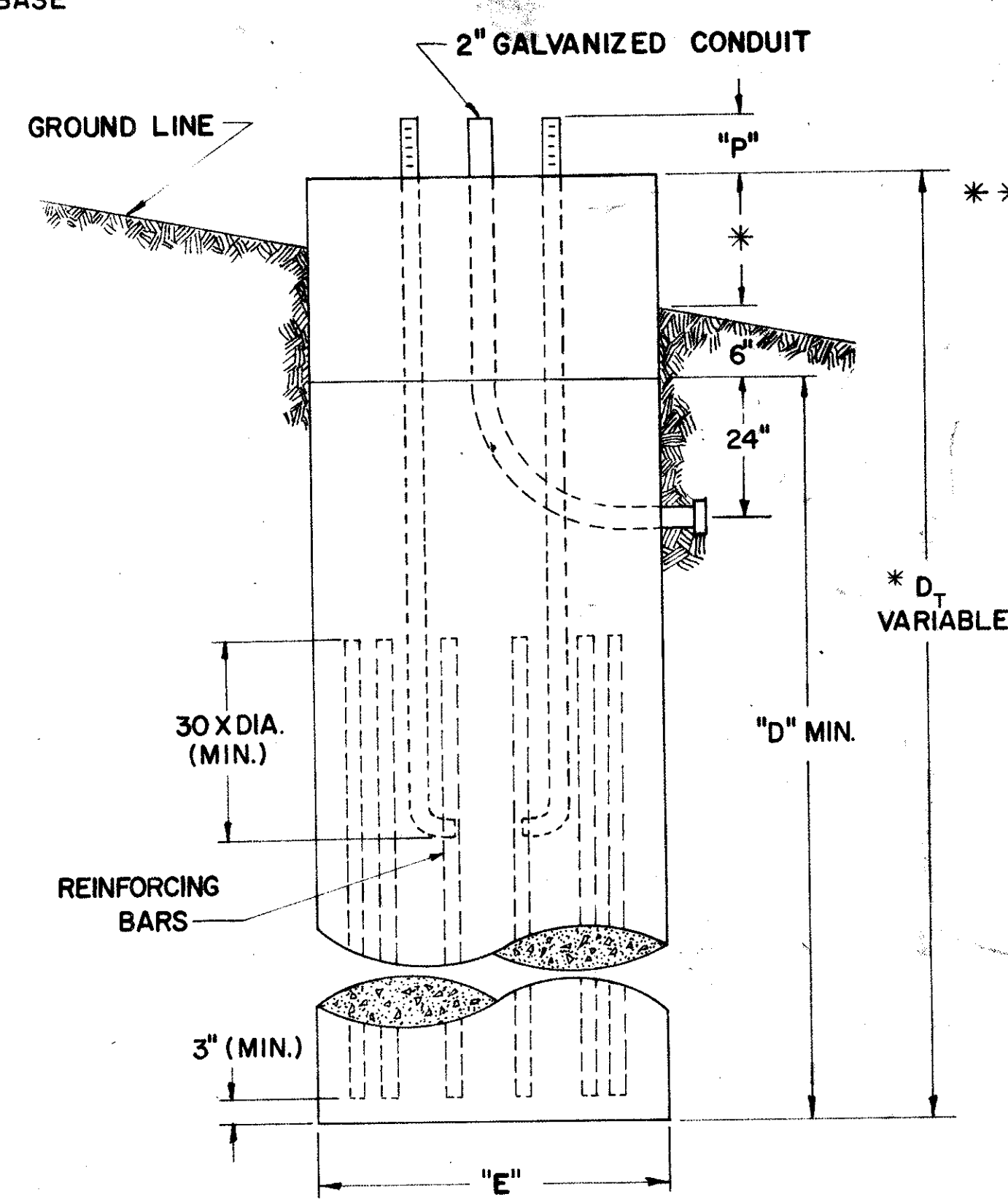
ARM ATTACHMENT



SIGN ATTACHMENT DETAIL

POLE DETAIL

| DESIGN NO. | POLE SIZE | *** ARM SIZE | DIM A | DIM ** B | DIM "D" MIN. | DIM E | DIM F | DIM P | DIM S | DIM T | BOLT CIRCLE | ANCHOR BOLT SIZE | MAX SIGN AREA | REINF. BARS | |
|------------|-----------------------------------|------------------------------|-------|----------|--------------|-------|----------|---------|---------|--------|-------------|------------------|---------------|-------------|-----|
| | | | | | | | | | | | | | | SIZE | NO. |
| 1 | 3 Ga, 12" X 8.78" X 23'-0" | 7 Ga, 6.9" X 4.66" X 16'-0" | 4' | 12' | 9' | 3'-0" | 11 5/16" | 7 3/4" | 17" | 2" | 16" | 1 3/4" X 90" | 80 | 3/4" | 12 |
| 2 | 3 Ga, 12" X 8.78" X 23'-0" | 7 Ga, 8" X 5.2" X 20'-0" | 4' | 16' | 9' | 3'-0" | 11 5/16" | 7 3/4" | 17" | 2" | 16" | 1 3/4" X 90" | 80 | 3/4" | 12 |
| 3 | 3 Ga, 15" X 11.5" X 25'-0" | 7 Ga, 8.3" X 6.06" X 16'-0" | 4' | 12' | 11' | 3'-0" | 15 1/2" | 8 3/8" | 23" | 2" | 22" | 2" X 96" | 120 | 1" | 12 |
| 4 | 3 Ga, 16" X 12.5" X 25'-0" | 3 Ga, 9.2" X 6.40" X 20'-0" | 4' | 16' | 11' | 3'-0" | 16 5/16" | 8 3/8" | 24 1/2" | 2" | 23 1/2" | 2" X 96" | 120 | 1" | 12 |
| 5 | 0 Ga, 18" X 14.36" X 26'-0" | 7 Ga, 11" X 7.92" X 22'-0" | 6' | 14' | 13' | 3'-0" | 18" | 9 3/8" | 26 1/2" | 2 1/2" | 25 1/2" | 2 1/4" X 120" | 180 | 1 1/8" | 12 |
| 6 | 0 Ga, 18" X 14.36" X 26'-0" | 7 Ga, 12.5" X 8.86" X 26'-0" | 6' | 18' | 13' | 3'-0" | 18" | 9 3/8" | 26 1/2" | 2 1/2" | 25 1/2" | 2 1/4" X 120" | 180 | 1 1/8" | 12 |
| 7 | 2 PLY 7 Ga, 18" X 14.36" X 26'-0" | 7 Ga, 12.5" X 9.14" X 24'-0" | 6' | 14' | 15' | 3'-0" | 18" | 9 3/4" | 26 1/2" | 2 1/2" | 25 1/2" | 2 1/2" X 144" | 240 | 1 1/4" | 12 |
| 8 | 2 PLY 1/4", 18" X 14.36" X 26'-0" | 3 Ga, 12.5" X 8.58" X 26'-0" | 6' | 18' | 15' | 3'-0" | 18" | 11 1/4" | 26 1/2" | 3" | 25 1/2" | 3" X 144" | 240 | 1 1/4" | 12 |



FOUNDATION DETAIL

NOTES

FABRICATION - ALL PORTIONS OF THE SIGN SUPPORT, INCLUDING SIGN ATTACHMENTS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. DESIGNATIONS A-123 AND A-153. THE CONDUIT SHALL BE GALVANIZED IN ACCORDANCE WITH SEC. 625.13 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS FOR PAYMENT.

* FOUNDATION - THE TOP ELEVATION OF FOUNDATIONS SHALL BE VARIED SO AS TO MAINTAIN A MINIMUM CLEARANCE OF 17' BETWEEN THE BOTTOM OF THE SIGN AND THE HIGHWAY CROWN.

** ERECTION - VALUES OF "B" MAY BE EXCEEDED PROVIDED THE PRODUCT OF ACTUAL SIGN AREA TIMES THE DISTANCE FROM C OF POLE TO C OF SIGN DOES NOT EXCEED THE MAX SIGN AREA TIMES "B".

*** ARMS 20' LONG OR LONGER ARE TO BE TRUSS TYPE WITH 3" X 3" X 3/8" ANGLES WELDED TO GUSSET PLATES.

MATERIAL - STEEL POLE BASES, FLANGES, AND END CAPS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A 30 GRADE B. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM SPECIFICATION A193 GRADE B7 AFTER FABRICATION TAPERED POLES AND ARMS SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI.

SOILS - THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY). FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY 50% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL - REINFORCING STEEL AS SHOWN IN TABLE SHALL BE INSTALLED WHEN "D" EXCEEDS THE ANCHOR BOLT LENGTH BY MORE THAN 3 FT. THE COST AND PLACEMENT OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS.

DESIGN - THE DESIGN OF OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.

| | | |
|---|------------------|----------------------------|
| BUREAU OF TRAFFIC OHIO DEPARTMENT OF HIGHWAYS | | |
| OVERHEAD SIGN SUPPORT | 816 No. 12.24 | DATE 8-18-61 4-11-62 |
| APPROVED <i>Robert E. Conner</i> ENGINEER OF TRAFFIC | | |