CONTRACT NO. 98950 SECTION COUNTY TOTAL SHEETS WILLIAMSON 917 745 \*\* TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT \* I-57, & OLD IL 13 (FAU 9629) \* \* (X1-6-2)VB-2,(X1-6)HBK-2 10 Ga, stainless steel or hot \_ 3", typ. 2", typ. 7 See Detail A for geometry HANDHOLE COVER Bolt Circle See Detail D on SUGGESTED POSITIONING PLATE Base Sheet OSC-A-3. 24" O.D. Pipe 125 lb./ft. SECTION A-A 0.500'' wall For UT, grind top of Utilize positioning plate and temporary nuts with leveling nuts or other Engineer approved methods to maintain anchor bolts' alignment during concrete placement. Plate, extra nuts (For Type II-C-A and III-C-A ≤ 35°) 47 rod square and smootl Drill & tap for ½" - 20 screws. 24" O.D. Pipe 171 lb./ ff. O.688" Wall (For Type III-C-A Chase thread and other positioning aids become Contractor's property. Cost included in Drilled Shaft after galvanizing. Н (24′-6″, тах.) Туре II-С-Н (23′-0″, тах.) Туре III-С > 35' to 40') Protect threads during concreting with tape, sleeves, or other means. 3<sub>4</sub>" x 2" flat bar frame\* \*\*\* 18" is minimum to be galvanized. Entire rod may be galvanized at Contractor's option. MT 25% / l<sub>4</sub>" x 1<sup>l</sup>2", min. Continuous backing ring All Thread = NC (National Coarse) Provide 8" x  $4^l_2$ " cover. Outside corners =  $2^l_4$ " radius. Provide  $4^{-5}_{16}$ "  $\phi$  holes in cover for  $^l_4$ " - 20 round head 214" Base Plate Provide 1 uncoated nut per rod.
Deform thread or use chemical hot dip galvanized or stainless steel machine screws. (See cover details.) Bottom of Base Plate thread lock to secure. Top of Anchor rods ∕ — Detdil B <u>DETAIL A</u> SECTION B-B \* Benf bars may be buff welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground  $3^{l}_{2}{}^{\prime\prime}$  Stainless Steel Std. Gr. Wire Cloth,  $^{l}_{4}{}^{\prime\prime}$  max. opening with minimum wire diameter of AWG No. 16 234" (±14") gap 11 11 11 11 11 11 11 811 11 11 11 10 11 11 to ANSI Roughness of 500 µin or less. 3" \( \phi \) Galvanized steel conduit
Thread and cap both ends 11.11.11 \*\* Butt welded joint in post is only allowed for post with 2" lap. Secure with  $\frac{3}{4}$ " stainless steel banding 1 | | 11 | 11 | 11 heights (H) over 20 ft. in length. If used, weld 11 11 11 11 11 ឬដូ**ល**ារ៉េរ៉ after anchor bolt nuts are fully tightened. procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) 11 11 11 11 i Hiiiii ji 11 11 11 11 1 ANCHOR ROD DETAIL at Contractor's expense, 11 11 11 11 1 Anchor rods shall conform to AASHTO M314 Grade 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum\*\*\*) and associated M291, Grade A, 11 11 11 11 UT 25%) M C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at ##### bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with For Foundation Details Continuous backing ring see Base Sheet OSC-A-9. 200 lb.-fl. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, ½" Ø 3.5 mbz, transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). 3'-6" ∅ \_ 3'-6" Ø in root area FRONT ELEVATION SIDE ELEVATION Cost of testing included in Drilled Shaft Concrete Foundations. Structure Number DETAIL B 22.1 9C100I057R53.1 1515+50 REVISIONS NAME ILLINOIS DEPARTMENT OF TRANSPORTATION **CANTILEVER SIGN STRUCTURES** TYPE II-C-A & III-C-A TRUSS SUPPORT POST **ALUMINUM TRUSS & STEEL POST** SCALE: VERT. NONE DRAWN BY CNH **OSC-A-5** 1-7-05 DATE CHECKED BY

PLOT DATE = 12/13/2006 FILE NHME = c)tyrojects 4902802\oldf3\oldf3PG. PLOT SCALE = 50.0000 / IN. USER NAME = headon