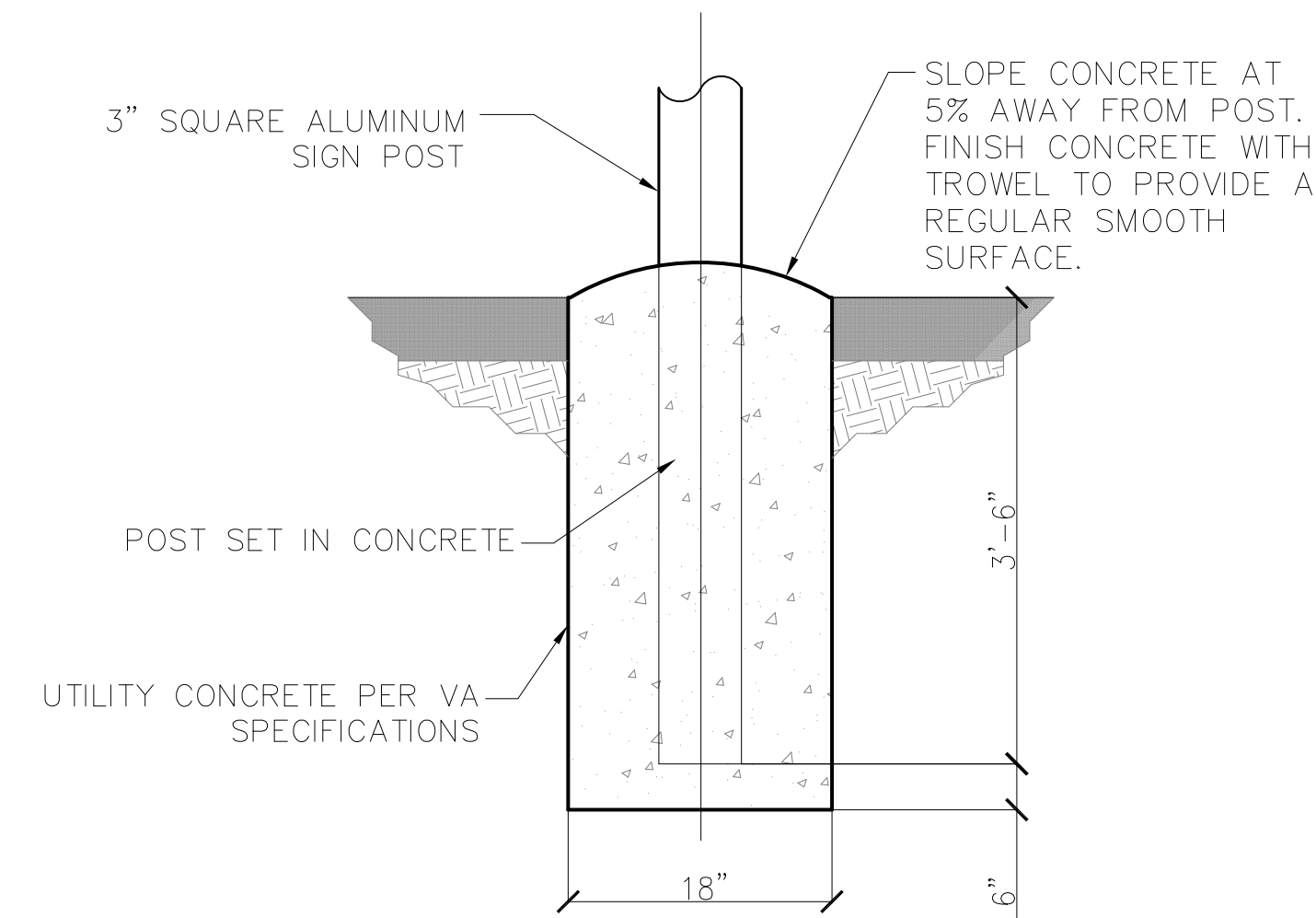


- NOTES:
- GRATES ARE DESIGNED FOR 7.5 KN WHEEL LOAD MS 18 LOADING.
  - CLIP ANGLES MAY BE CUT FROM STANDARD ASTM AS ANGLES OR FORMED FROM A 42/2 X 2 1/2 BAR. THE ALTERNATE CLIP ANGLE SHALL BE FORMED FROM A 42/2 X 2 1/2 BAR ONLY.
  - GRATE SHALL BE GRIND TO FIT FILLETS IN FRAME ANGLES.
  - WELDS ON OUTSIDE OF GRATE SHALL BE GRIND SMOOTH.
  - WELDS AND AREAS ADJACENT TO WELDS SHALL BE SAND OR SHOT BLASTED BEFORE GALVANIZING IN ORDER TO REMOVE ALL SCALE, RUST, SLAG AND SPATTER, ETC.
  - GRATES SHALL BE HOT-DIP GALVANIZED AFTER ALL FABRICATION, GRINDING, TAMPING AND CLEANSING HAVE BEEN COMPLETED.
  - GRATE SHALL BE BOLTED TO WELDER FRAME WITH TWO BOLTS, ONE ON EACH SIDE. BOLTS SHALL BE CORROSION RESISTANT, WELDED, METAL OR TYPE 316 STAINLESS STEEL.

## RECTANGULAR GRATE DETAILS

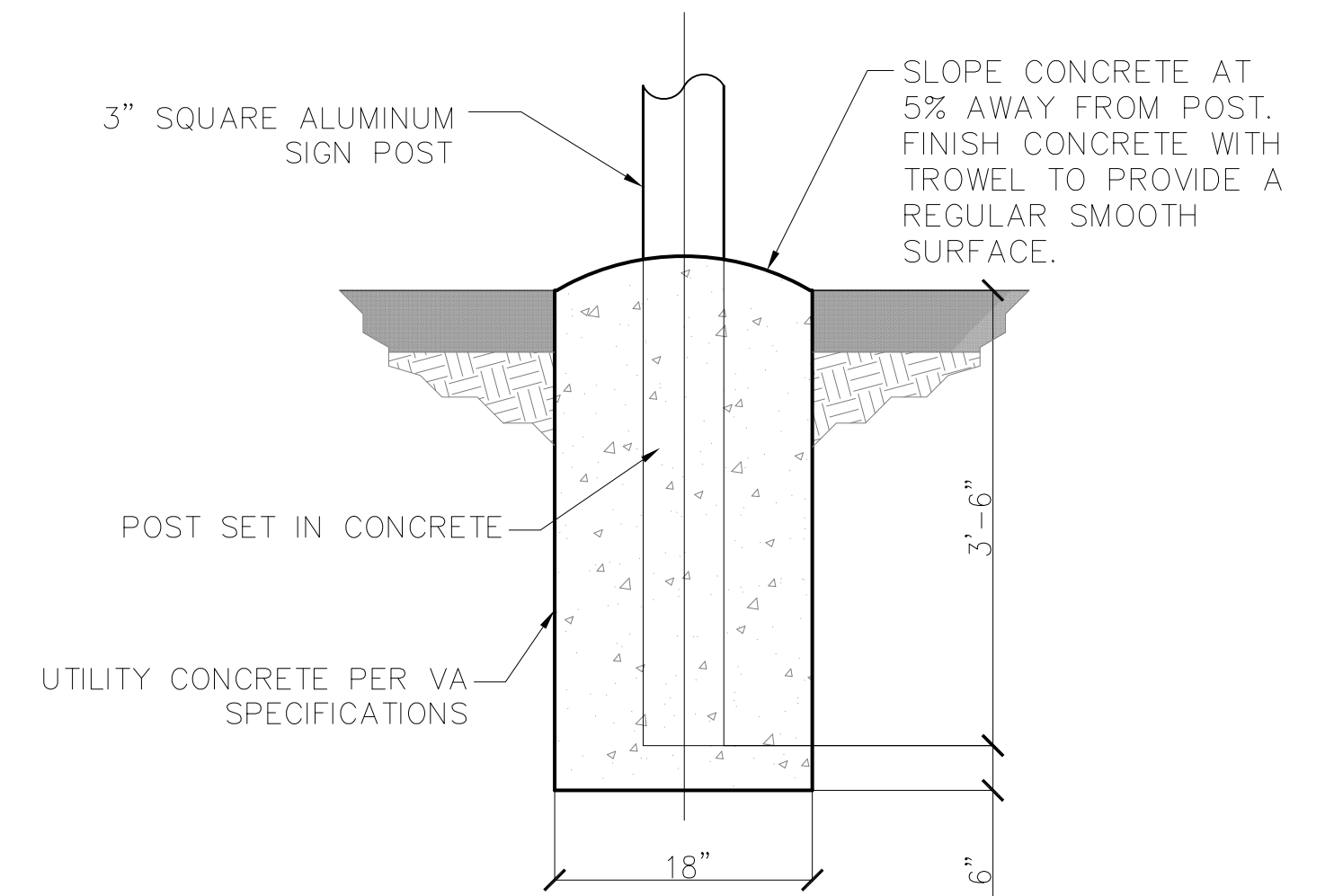
- NOTES:
- NEW YORK PAY CODES DO NOT APPLY TO THIS PROJECT
  - SUMPS SHALL HAVE SOLID BOTTOM WITHOUT DRAIN



## CONCRETE BASE FOOTING DETAIL FOR PARKING LOT/INTERIOR SIGNAGE

NOT TO SCALE

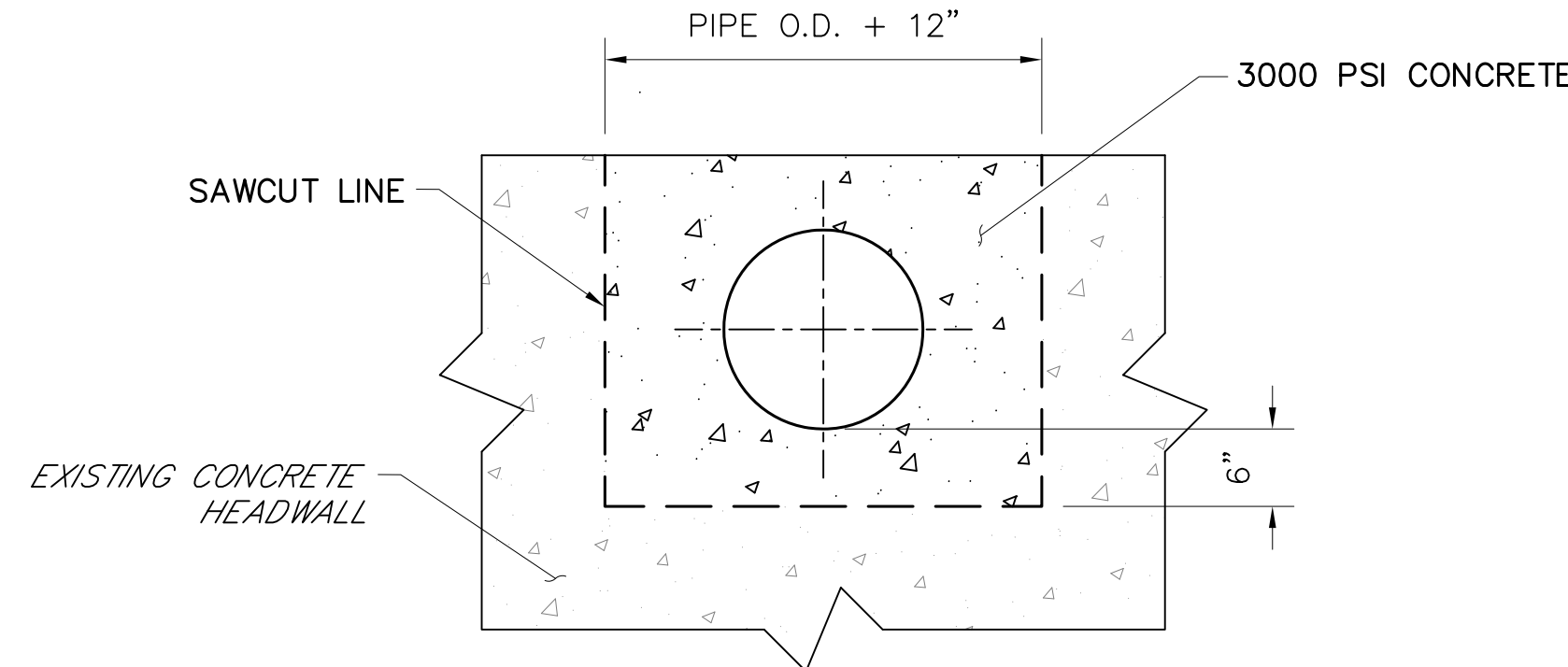
- NOTES:
- MINIMUM TOP 12" OF CONCRETE FOOTING SHALL BE FORMED WITH SONOTUBE AND TOP SHALL BE TROWELED SMOOTH.
  - ALL SIGNS SHALL BE DESIGNED, FABRICATED, AND CONSTRUCTED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF VETERANS AFFAIRS PARKING LOT SIGNAGE MANUAL, AS LAST REVISED AND THE EXTERIOR SIGNS MANUAL, AS LAST REVISED.



## CONCRETE BASE FOOTING DETAIL – PARKING LOT SIGN PL-13

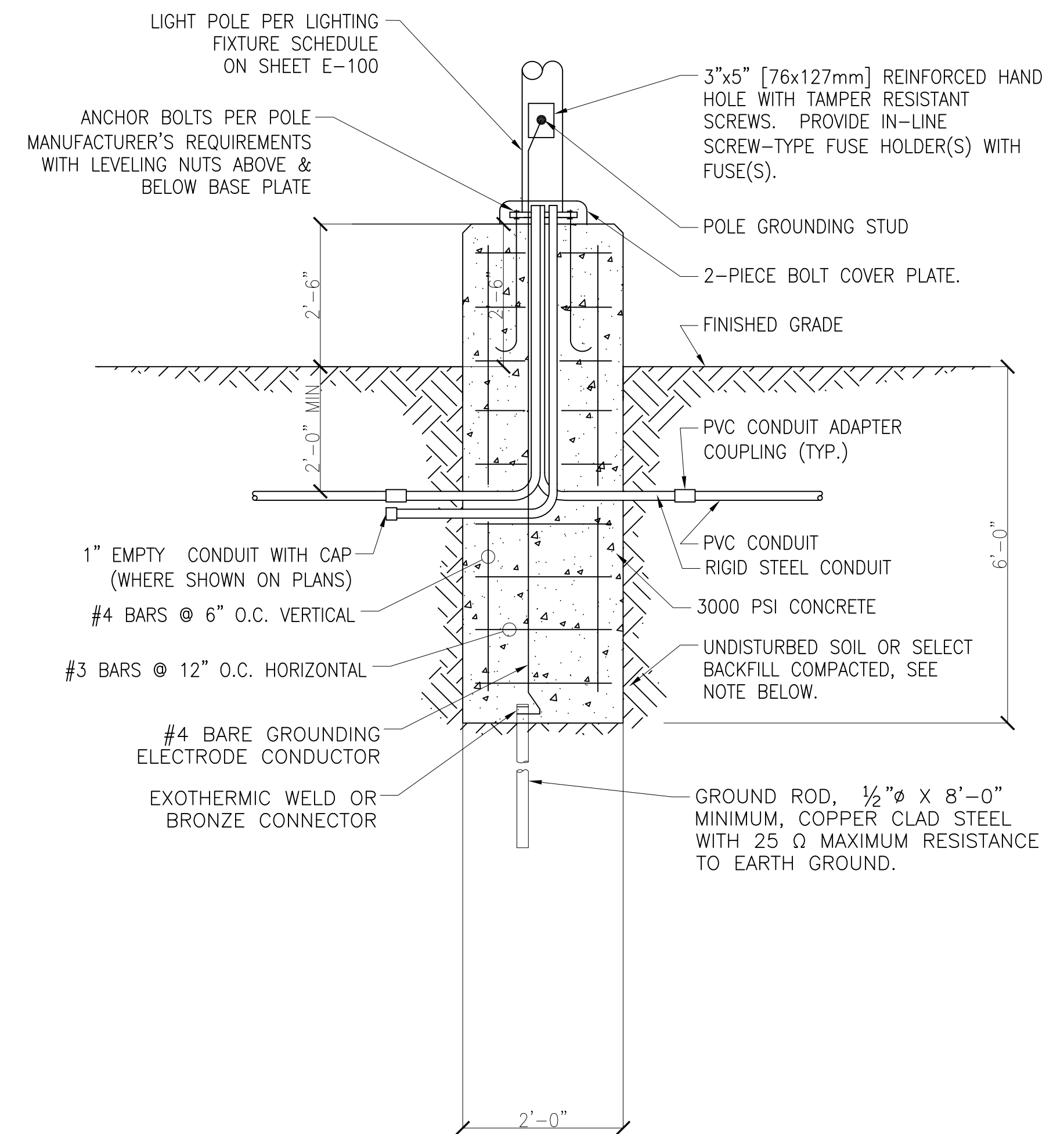
NOT TO SCALE

- NOTES:
- MINIMUM TOP 12" OF CONCRETE FOOTING SHALL BE FORMED WITH SONOTUBE AND TOP SHALL BE TROWELED SMOOTH.
  - ALL SIGNS SHALL BE DESIGNED, FABRICATED, AND CONSTRUCTED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF VETERANS AFFAIRS PARKING LOT SIGNAGE MANUAL, AS LAST REVISED AND THE EXTERIOR SIGNS MANUAL, AS LAST REVISED.



## PIPE CONNECTION TO EXISTING HEADWALL

NOT TO SCALE



## LIGHT POLE BASE DETAIL

NOT TO SCALE

- NOTES:
- MINIMUM TOP 12" OF CONCRETE FOOTING SHALL BE FORMED WITH SONOTUBE AND TOP SHALL BE TROWELED SMOOTH.

## PIPE INSTALLATION PROCEDURES

CONSTRUCTION DETAILS BELOW COVER THE FOLLOWING CONDITIONS:

- PIPE LYING ON TOP OF THE NATURAL GROUND, ROCK OR COMPACTED (97% SPD) FILL.
- THE EXISTING GROUND IS BETWEEN THE TOP AND THE BOTTOM OF THE PROPOSED PIPE AND THE PIPE IS TO BE COVERED WITH EARTH FILL.
- THE TOP OF PIPE IS BELOW THE LEVEL OF THE NATURAL GROUND OR COMPACTED FILL (TO MINIMUM 97% SPD) AND TO BE COVERED WITH EARTH FILL TO HEIGHTS ABOVE THE NATURAL GROUND.

STEP 1 : REMOVE TOPSOIL (COMPRESSIBLE LAYER OF ORGANIC MATERIAL) TO A WIDTH EQUAL TO 5 OUTSIDE DIAMETERS OF THE PIPE IN ALL FILL CONDITIONS ABOVE (A), (B) & (C). ALSO IF SPECIFIED ON THE CONTRACT DRAWING, UNDERCUT FOR THE DEPTH BELOW THE BEDDING AS SHOWN BY DESIGN (MAKE MIN WIDTH 5 DIAMETERS OF PIPE).

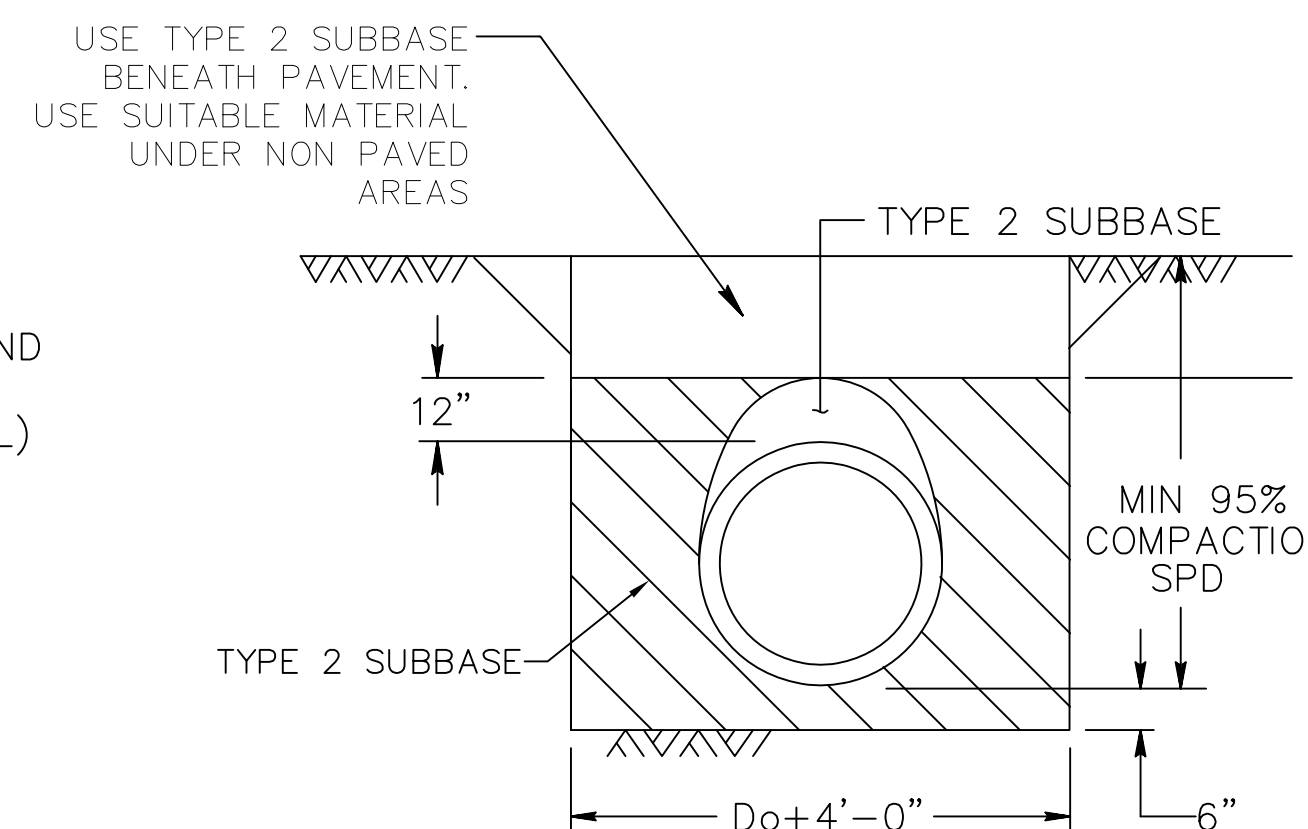
STEP 2 : CONSTRUCT THE EMBANKMENT TO 4'-0" ABOVE THE TOP OF PIPE OR TO THE SUBGRADE ELEVATION, WHICHEVER IS LESS.

STEP 3 : EXCAVATE THE TRENCH TO THE WIDTH OF THE OUTSIDE DIAMETER OF THE PIPE BARREL PLUS 4'-0" AND CREATE AN APPROPRIATE BEDDING 6" DEEP.

NOTE: IF UNSUITABLE MATERIAL IS FOUND, UNDERCUT AS DIRECTED AND BACKFILL WITH SUITABLE MATERIAL TO BOTTOM OF BEDDING ELEVATION. (UNLESS OTHERWISE SPECIFIED).

STEP 5 : LAY PIPE ON APPROPRIATE BEDDING.

STEP 6 : PLACE SUBBASE STONE, IN LIFTS 4" THICK, ADJACENT TO THE LOWER HAUNCHES TO A HEIGHT OF 12" ABOVE TOP OF PIPE. COMPACT TO 95% SPD.



\* SUITABLE MATERIAL = MATERIAL CONTAINING NO DEBRIS, ORGANIC MATTER, FROZEN MATERIAL OR LARGE STONES WITH A DIAMETER GREATER THAN ONE-HALF THE THICKNESS OF THE COMPACTED LAYERS BEING PLACED.

Revisions	Date



Drawing Scale	Drawing Title CONSTRUCTION DETAILS
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CONSTRUCTION DOCUMENTS		
Project Title PARKING LOT 7 EXPANSION	Date 06/23/2016	V.A.
Project No. 528A5-16-505		
Building No. LOT 7	Checked CJC	
Location CANANDAIGUA, NEW YORK	Drawn TAD	
C-503		Page 12 of 20