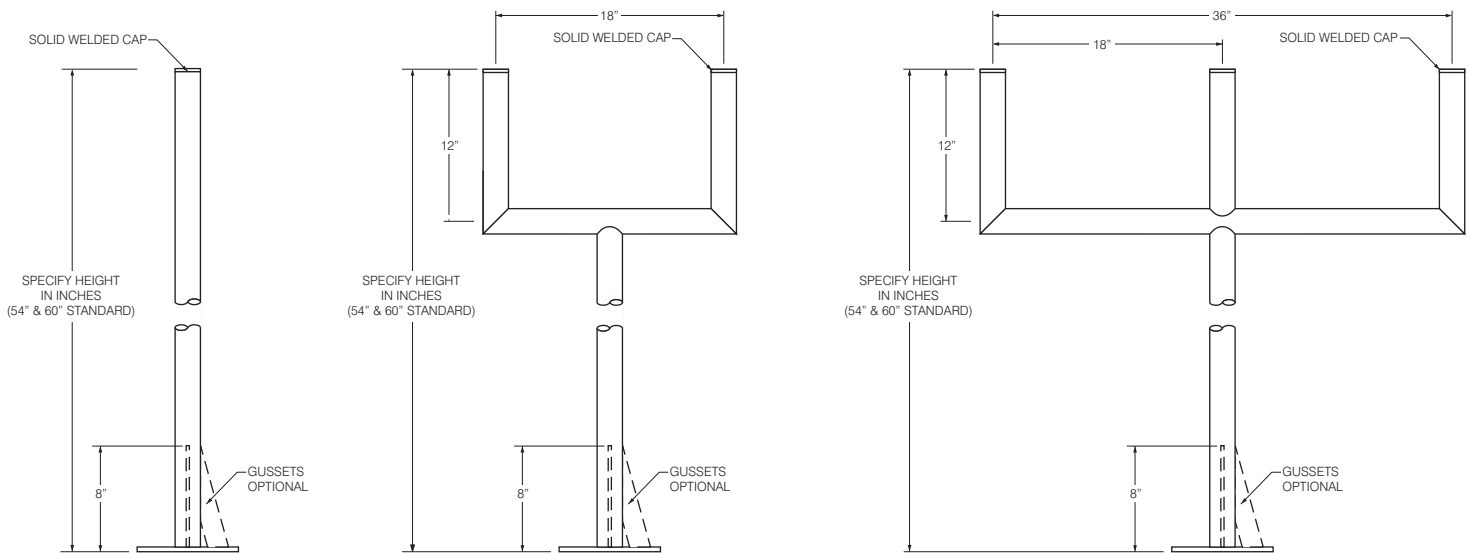
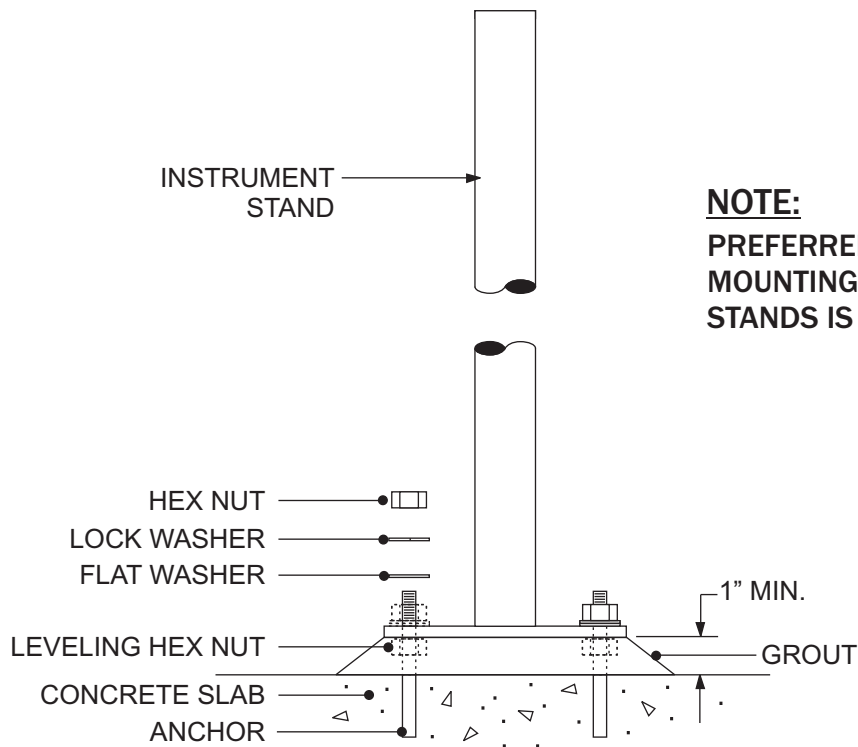


INSTRUMENT STAND INSTALLATION GUIDE

LISTED IN THIS INSTALLATION GUIDE ARE INSTRUCTIONS ON HOW TO PROPERLY INSTALL INSTRUMENT STANDS IN THE FIELD. SOME OF THE MORE POPULAR INSTRUMENT STAND MOUNTING TYPES ARE LISTED IN THIS INSTALLATION GUIDE.



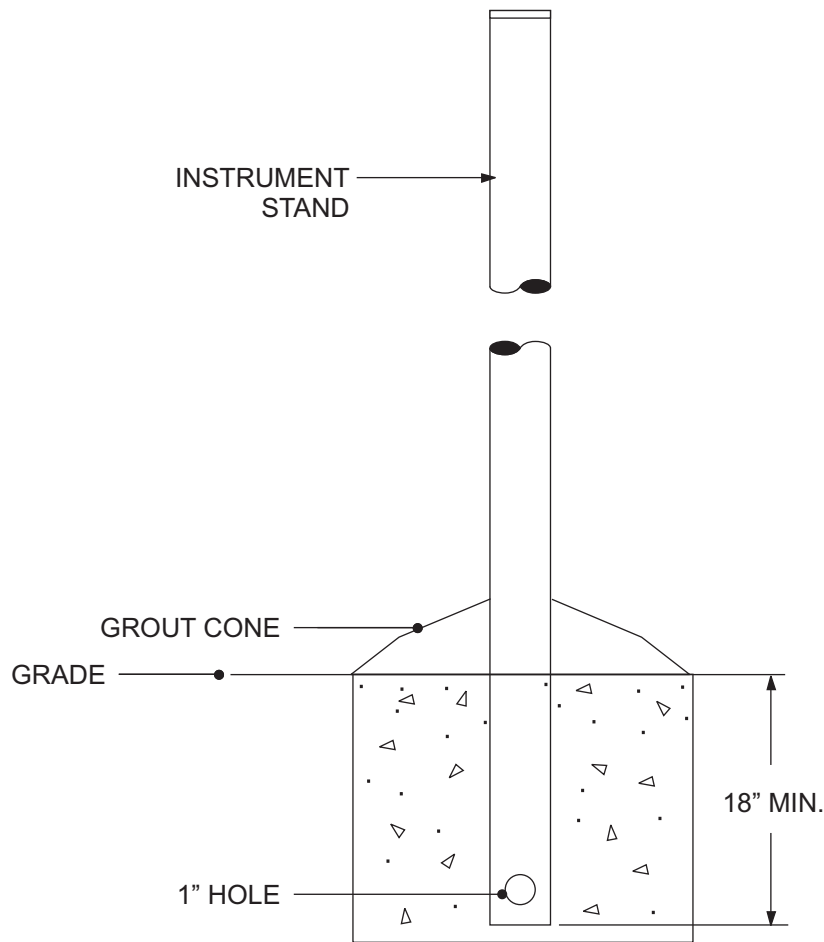
CONCRETE MOUNT



NOTE:
PREFERRED HARDWARE FOR
MOUNTING INSTRUMENT
STANDS IS 1/2"

- 1) MARK CONCRETE PAD WITH THE HOLE PATTERN THAT MATCHES THE INSTRUMENT STAND BASE.
- 2) USING A CONCRETE BORING BIT, DRILL HOLES IN THE CONCRETE MAKING SURE THE HOLES ARE DEEP ENOUGH SO THE ANCHORS WILL BE SECURE. TWO OF THE MORE COMMON ANCHORS ARE WEDGE AND DROP IN TYPES. AN EPOXY CAN ALSO BE USED WITH THE ANCHORS TO PROVIDE ADDITIONAL SUPPORT.
- 3) AFTER THE ANCHORS ARE SET, THREAD A HEX NUT ON EACH STUD TO BE USED FOR LEVELING THE INSTRUMENT STAND.
- 4) PLACE THE INSTRUMENT STAND OVER STUDS AND LEVELING HEX NUTS. ADJUST THE HEX NUTS UNDER THE INSTRUMENT STAND BASE UNTIL IT BECOMES LEVEL.
- 5) THE LENGTH OF THE STUD ABOVE GRADE MUST BE AT A MINIMUM OF 2" TO ALLOW FOR 1" OF GROUT AND THE MOUNTING HARDWARE.
- 6) PUT THE FLAT WASHER, LOCK WASHER AND HEX NUT ON THREADED STUD. TIGHTEN HEX NUTS UNTIL INSTRUMENT STAND BECOMES SECURE.
- 7) USE A NON SHRINK GROUT TO FILL IN THE GAP BETWEEN THE INSTRUMENT STAND BASE AND THE CONCRETE SLAB.

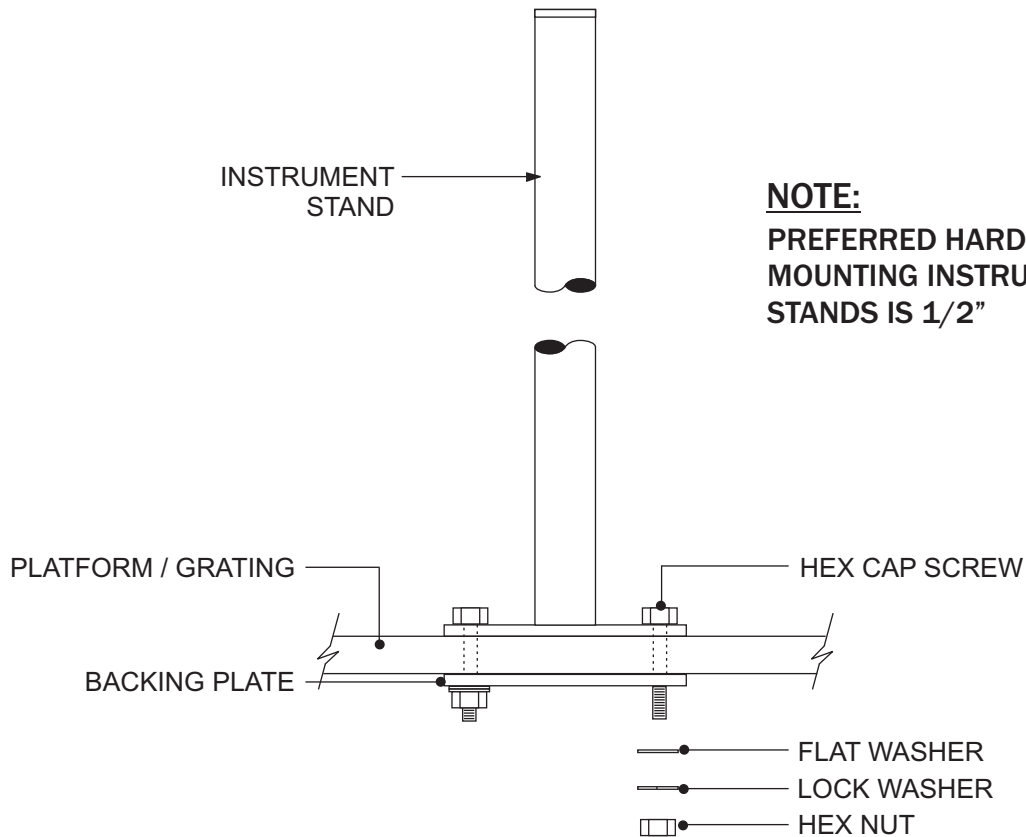
CONCRETE BASE MOUNT



CONCRETE BASE TYPE MOUNTING IS USED WHEN INSTRUMENT STANDS ARE MOUNTED IN ASPHALT OR UNPAVED AREAS. BASE PLATE AND MOUNTING ANCHORS WILL NOT BE REQUIRED WHEN INSTRUMENT STANDS ARE CONCRETE BASE MOUNTED.

- 1) THE INSTRUMENT STAND SUPPORT PIPE SHOULD BE LENGTHENED AT A MINIMUM OF 18" TO ALLOW FOR SUPPORT IN CONCRETE BASE.
- 2) DRILL OR BURN 1" HOLE IN THE INSTRUMENT STAND PIPE SUPPORT. THIS WILL ALLOW FOR THE CONCRETE TO FILL THE HOLE AND NOT ALLOWING THE INSTRUMENT STAND TO TWIST WHEN THE CONCRETE BASE IS CURED.
- 3) THE GROUT SHOULD TAPER FROM THE INSTRUMENT STAND SUPPORT TO THE CONCRETE BASE. THIS WILL ALLOW FOR PROPER WATER RUN-OFF.

PLATFORM MOUNT



NOTE:
PREFERRED HARDWARE FOR
MOUNTING INSTRUMENT
STANDS IS 1/2"

- 1) MEASURE THICKNESS OF GRATING. THIS WILL DETERMINE THE LENGTH OF BOLTING REQUIRED.
- 2) PLACE BACKING PLATE UNDER GRATING TO PROVIDE A STABLE BASE FOR THE INSTRUMENT STAND.
- 3) PLACE HEX CAP SCREW THROUGH THE INSTRUMENT STAND BASE AND THE BACKING PLATE SANDWICHING THE GRATING BETWEEN BOTH PLATES.
- 4) TIGHTEN HARDWARE MAKING INSTRUMENT STAND SECURE TO GRATING.

OTHER METHODS FOR SECURING INSTRUMENT STANDS TO GRATING ARE GRATING MOUNT DEVICES AND OR J-BOLTS. IF ONE OF THESE TWO METHODS ARE USED, A BACKING PLATE IS NOT REQUIRED.