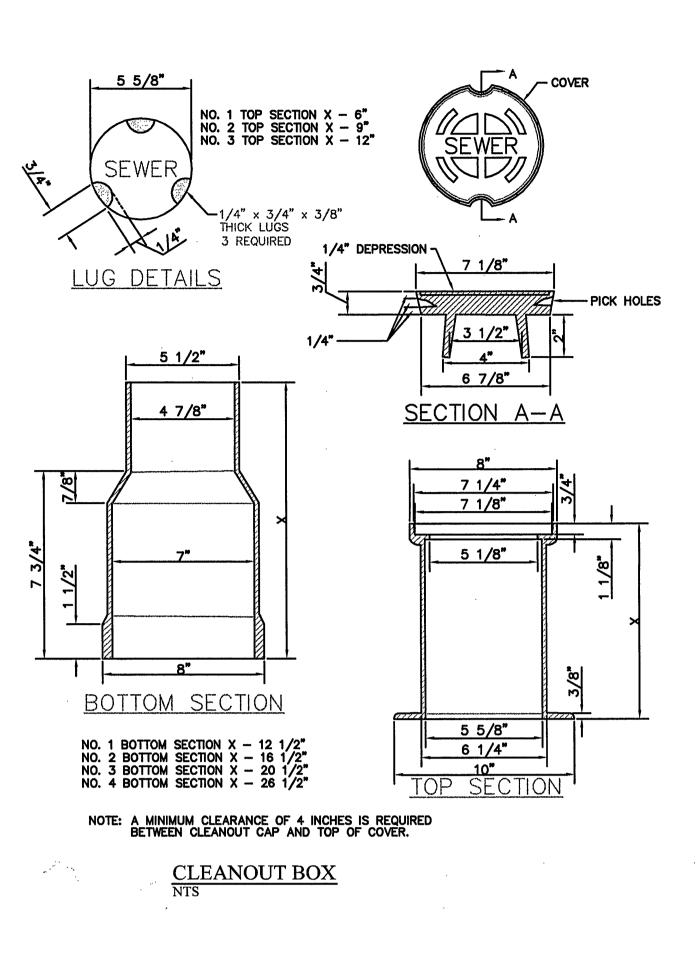


THE INVERT CHANNELS SHALL BE FORMED WITH CONCRETE AS SHOWN AND SHALL BE

CURVE OF AS LARGE A RADIUS AS SIZE OF MANHOLE WILL PERMIT.

SMOOTH AND SEMI-CIRCULAR IN SHAPE, CONFORMING TO THE INSIDE OF THE ADJACENT SEWER SECTION. CHANGES IN THE DIRECTION OF FLOW SHALL BE MADE WITH A SMOOTH

MAINHOLE INVERT CHANNELING



DETAIL NUMBER: A&E\_SS32

TYPICAL SECTION

(DIMENSIONS MAY VARY WITH MANUFACTURER'S DESIGN)

ALUMINUM STEP

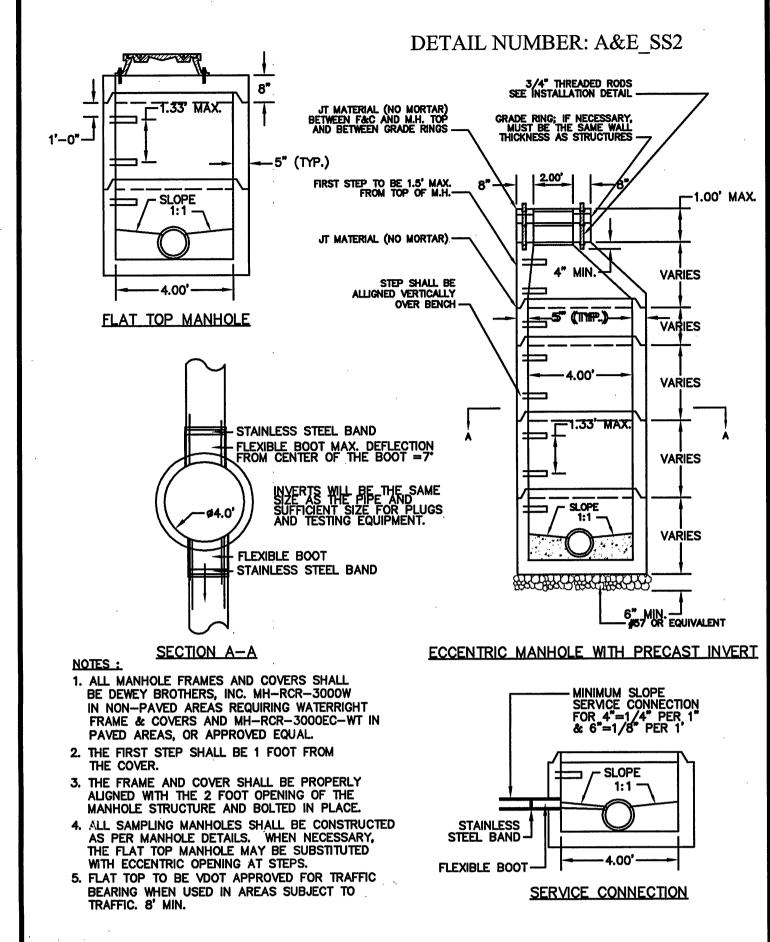
# MINIMUM OF 3" EMBEDMENT

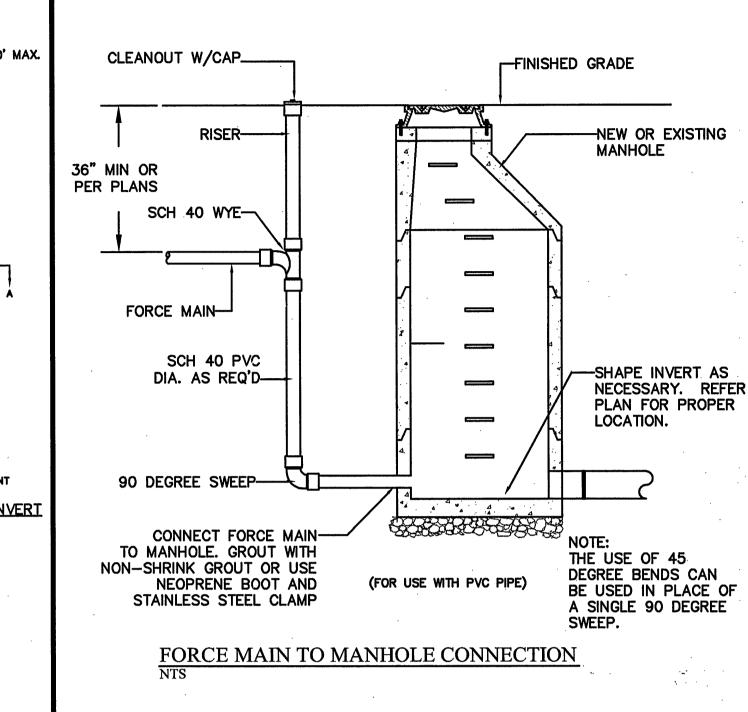
NOTES: (ALUMINUM STEP)
STEPS SHALL BE FABRICATED IN ACCORDANCE WITH ASTM B221M, ALLOY 6005—T5.
THAT PORTION OF THE STEP ENCASED IN MASONRY SHALL BE UNIFORMLY COATED WITH BITUMINOUS, SOLVENT TYPE, ASBESTOS FILLED ALUMINUM PIGMENTED COATING CONFORMING TO FEDERAL SPECIFICATION TC—C—00498A.

WRITTEN APPROVAL FROM THE ENGINEER FOR THE USE OF SUCH STEPS.
7. ALL STEPS INSTALLED SHALL BE PROVIDED WITH SLIP—RESISTANT SURFACES SUCH

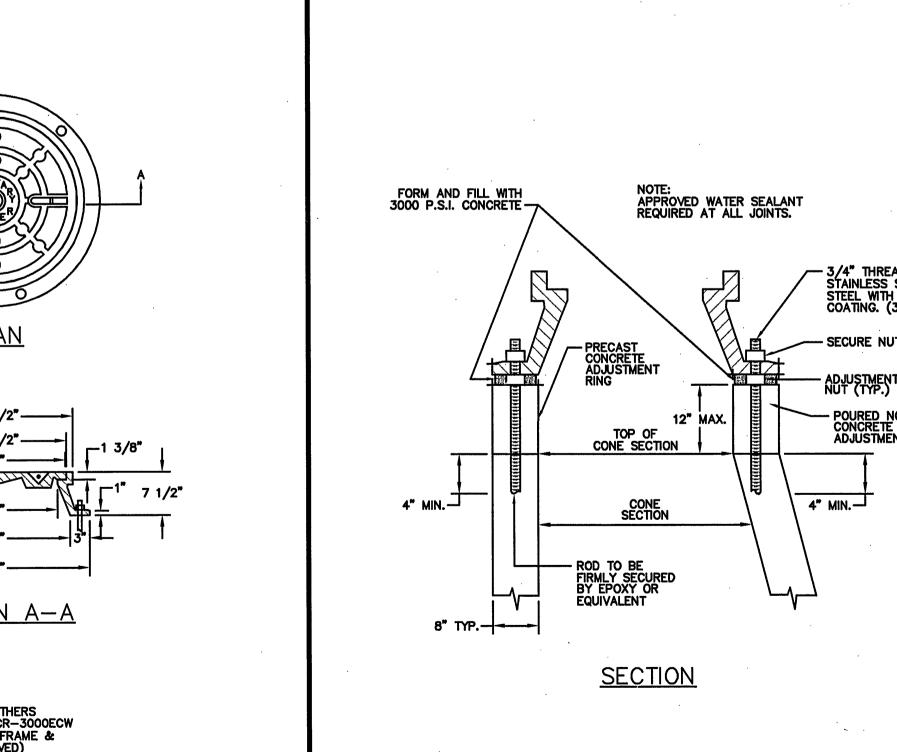
AS, BUT NOT LIMITED TO, CORRUGATED KNURLED, OR DIMPLED SURFACES.

MANHOLE STEP





DETAIL NUMBER: A&E\_SS7



3/4" THREADED ROD STAINLESS STEEL OR STEEL WITH APPROVED COATING. (3 TYP.) <u>PLAN</u> POURED NON-SHRINK CONCRETE OR PRECAST ADJUSTMENT RING 3/4"
THREADED RODS -

INSTALLATION DETAIL FOR ALL FRAMES AND COVERS

CONSTRUCTION

Engineering-Planning-Surveying Landscape Architecture Construction Management

2203 Peters Creek Road, NW Roanoke, Virginia 24017 Phone: 540 562 2345 Fax: 540 562 2344 Email: info@acsdesignllc.com www.acsdesignllc.com

DESIGNED BY: CHECKED BY: DME DATE: 4/11/06 SCALENOT TO SCALE **REVISIONS** SHEET No.

9 OF 11

SEWER DETAILS

JOB No. 21-04

DETAIL NUMBER: A&E\_SS5 PAVED 3000ECW UNPAVED 3000W SECTION A-A NOTE:
DEWEY BROTHERS
INC. MH-RCR-3000ECW
STANDARD FRAME &
COVER (PAVED)

STANDARD MANHOLE FRAME & COVER