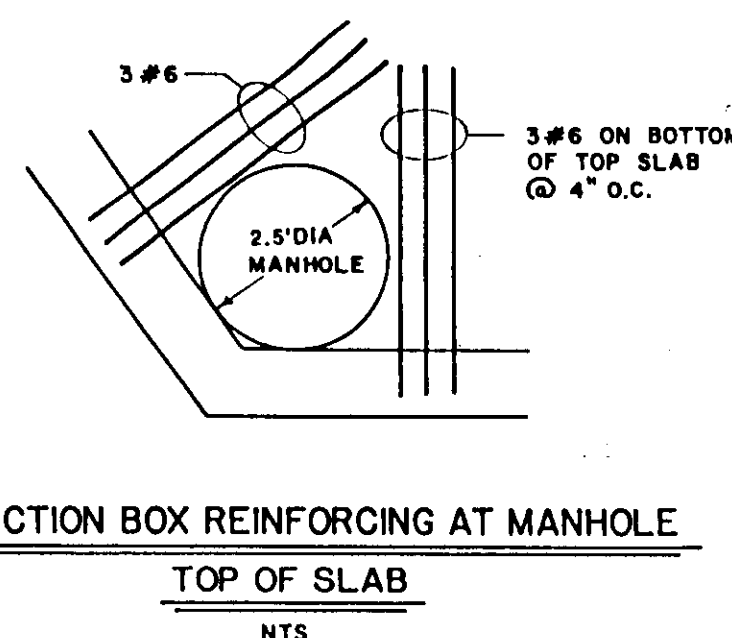
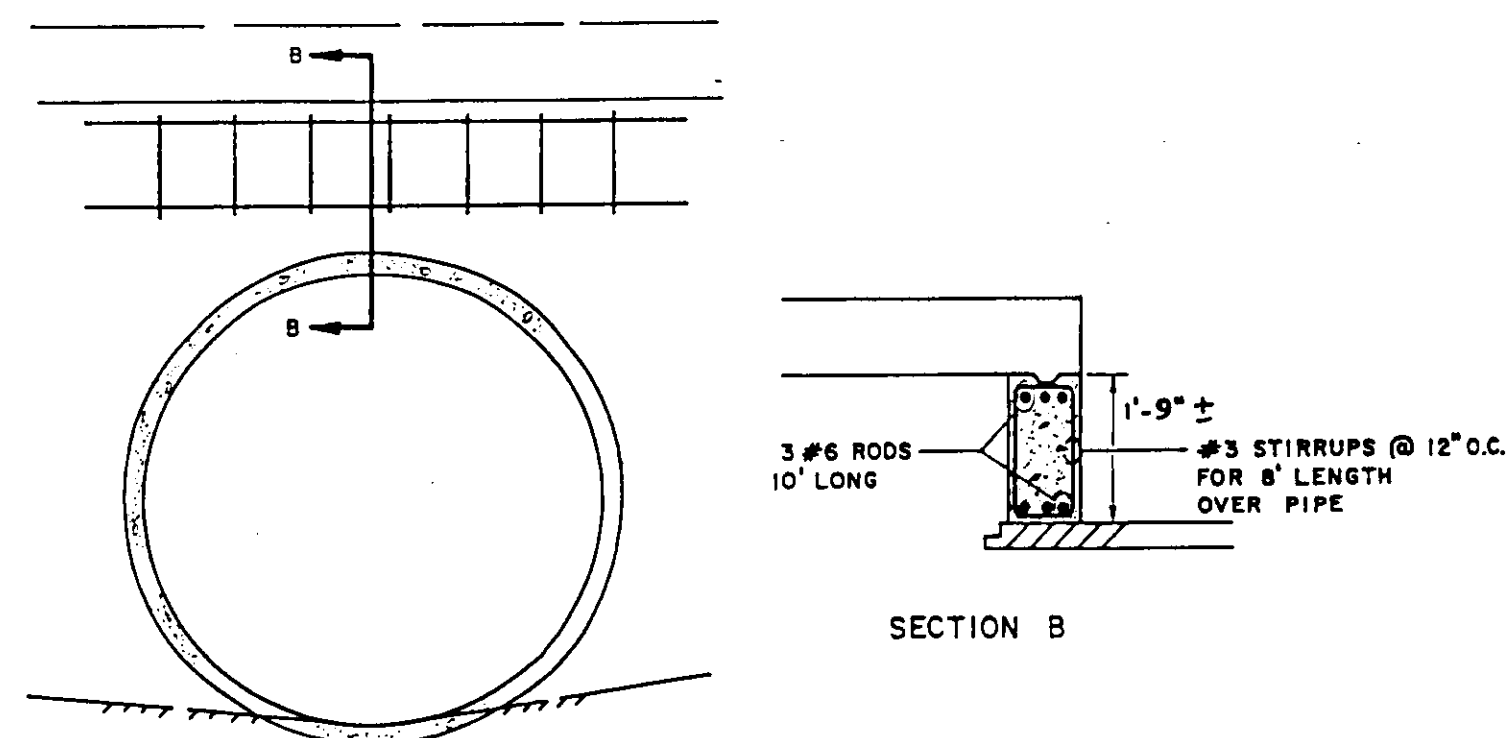


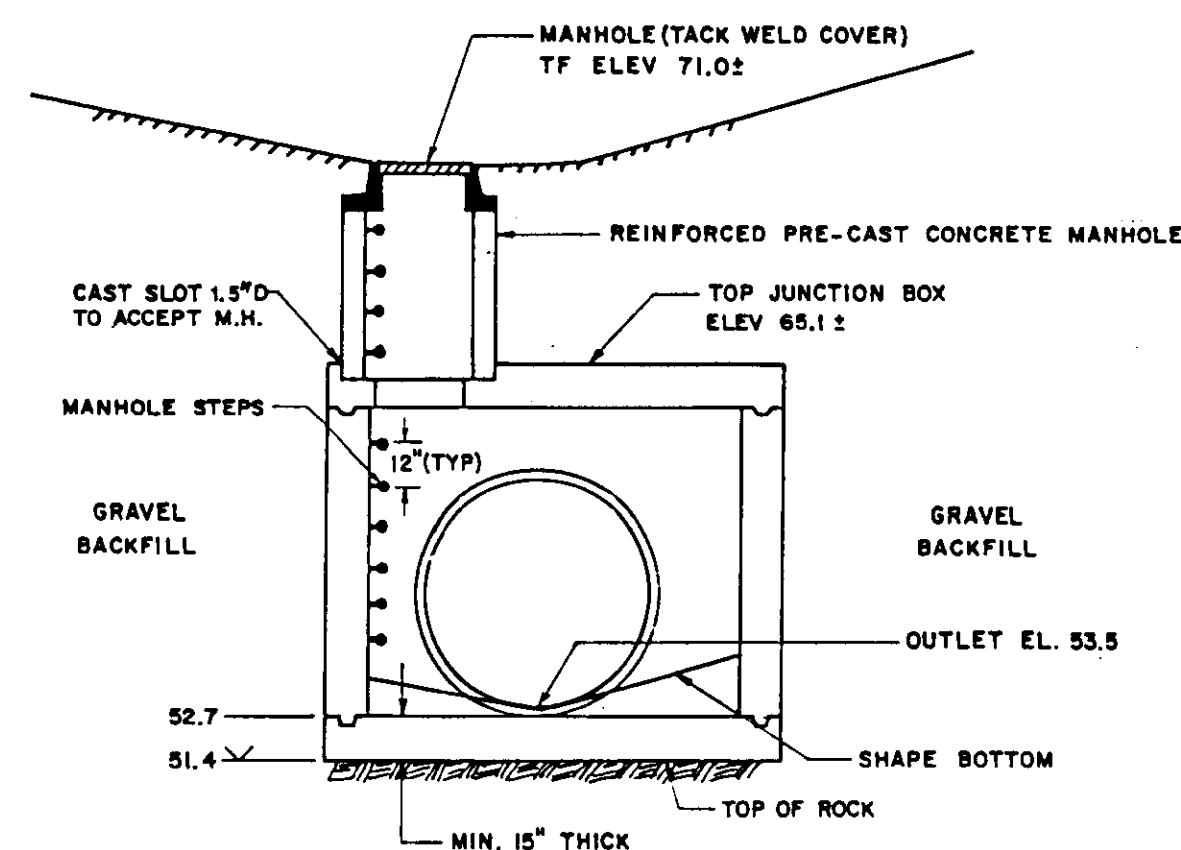
CULVERT EXTENSION BEDDING AND BACKFILL  
NTS



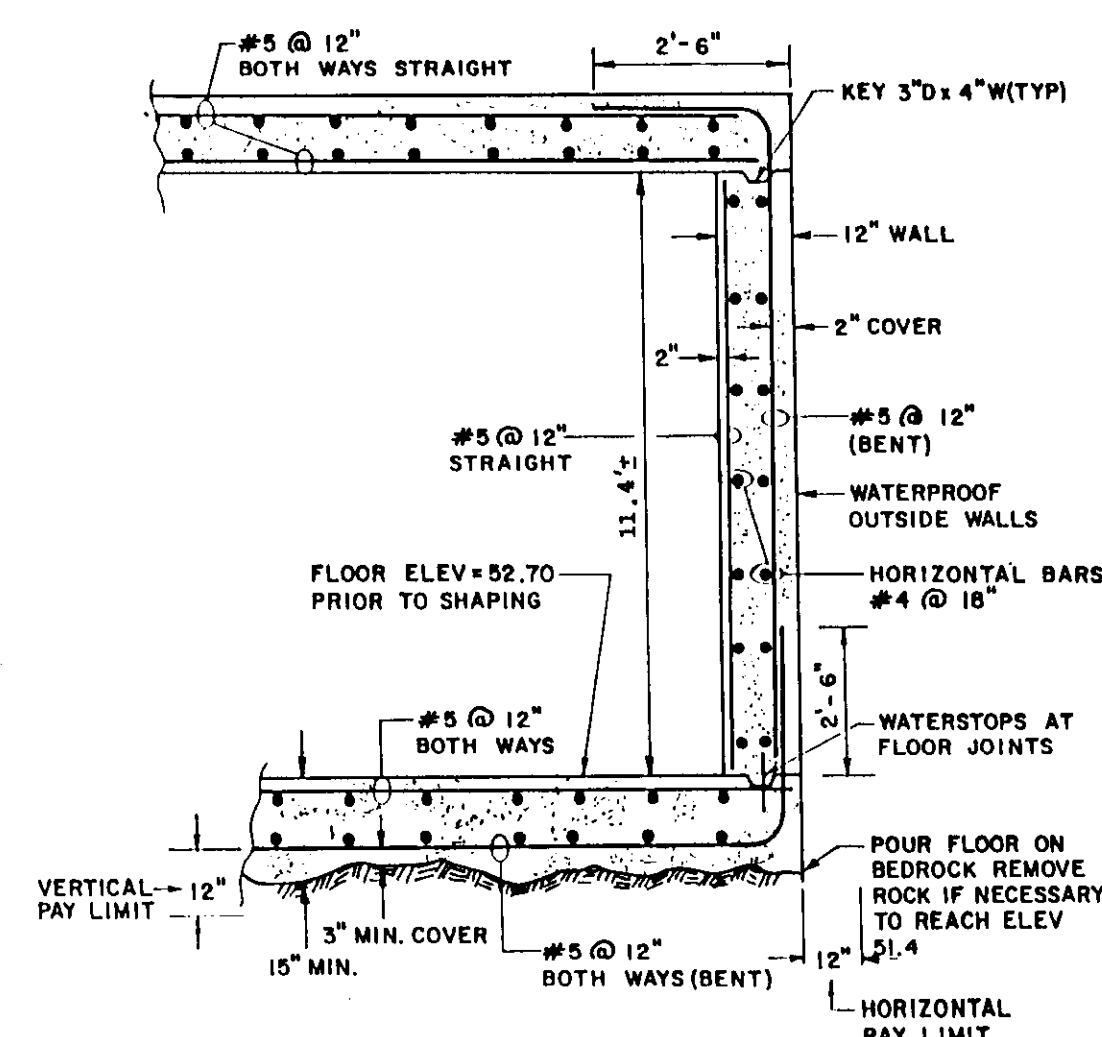
JUNCTION BOX REINFORCING AT MANHOLE  
TOP OF SLAB  
NTS



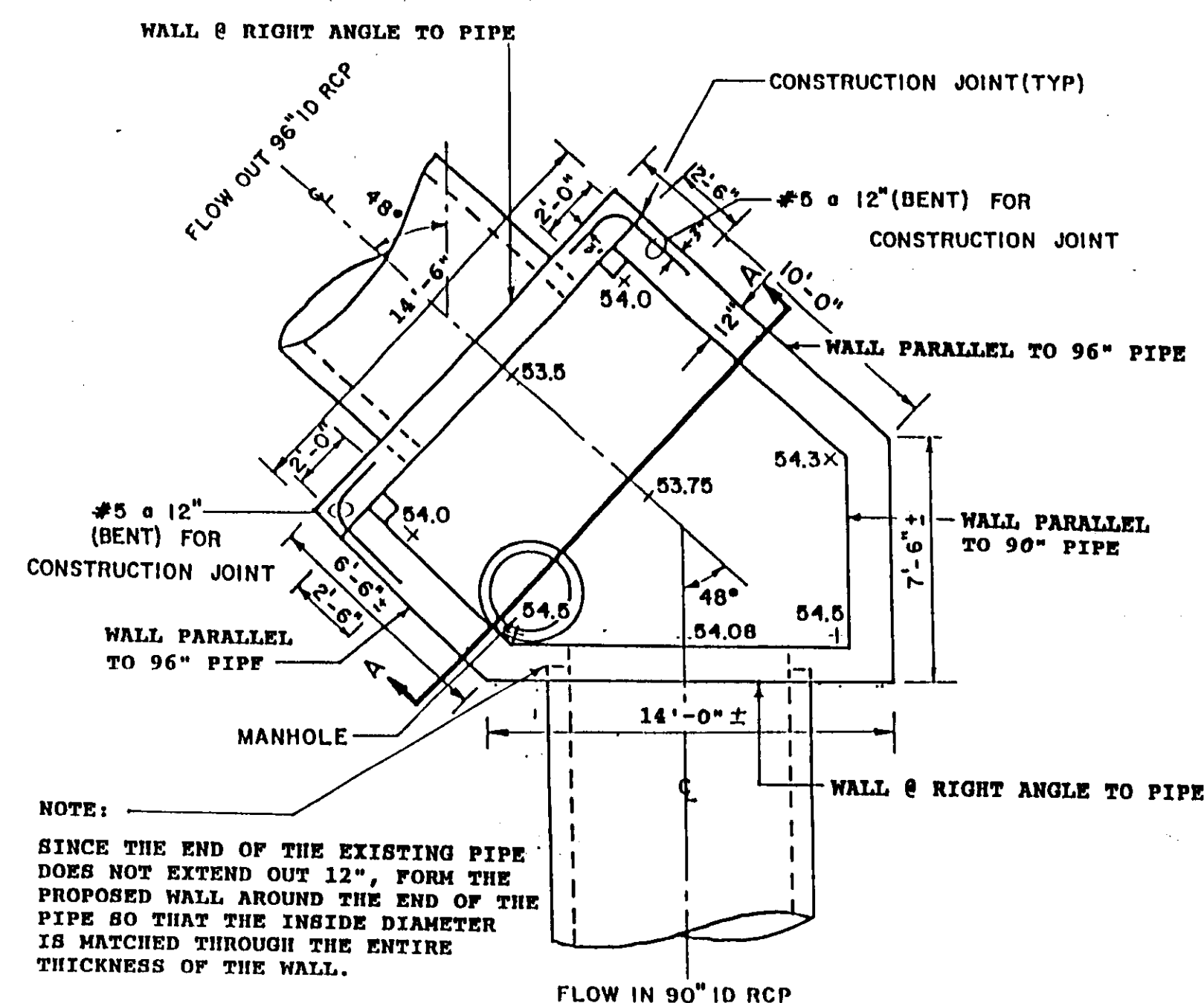
JUNCTION BOX REINFORCING AT PIPE  
NTS



JUNCTION BOX SECTION A-A  
NTS

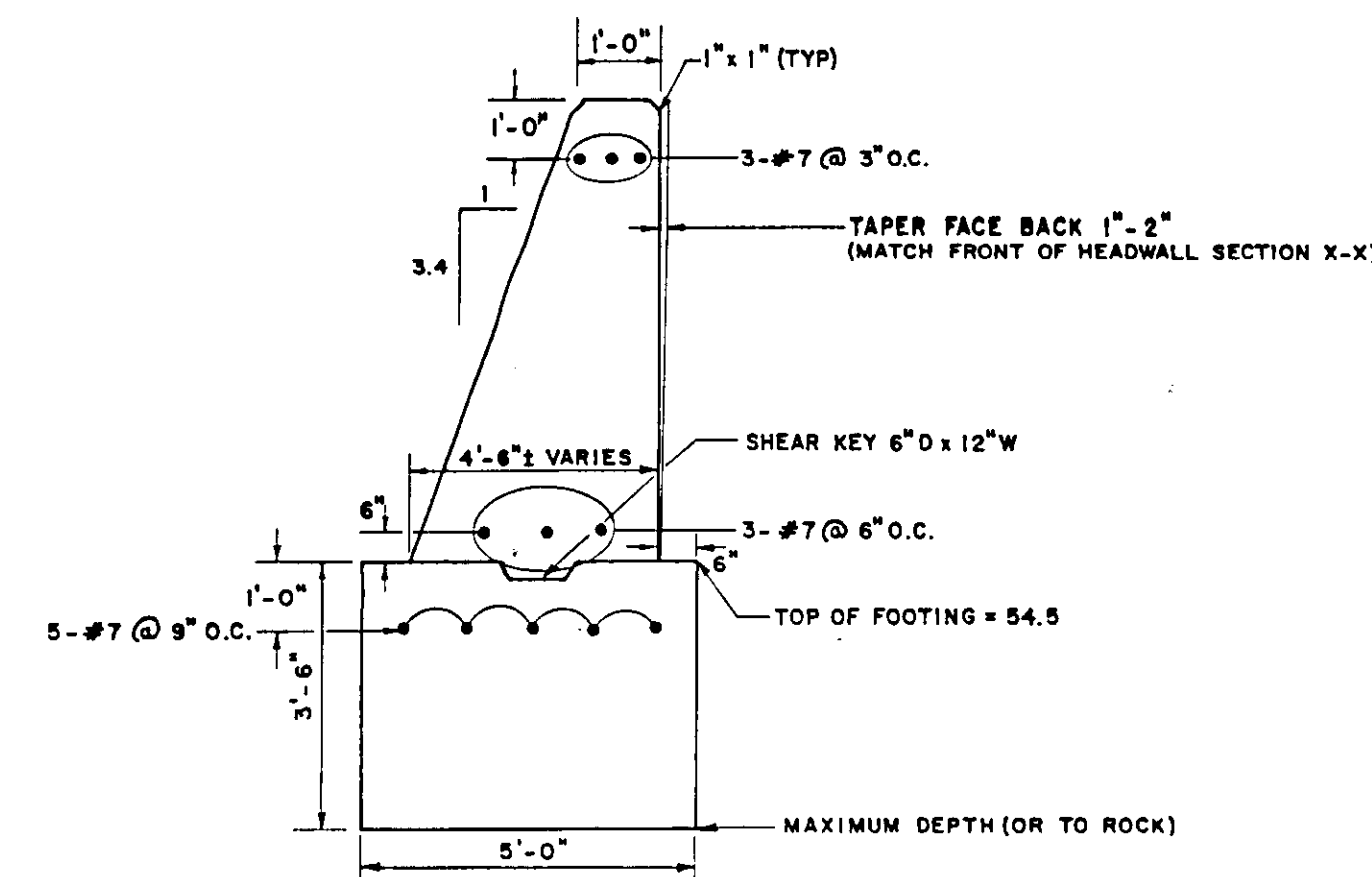


JUNCTION BOX CROSS SECTION  
NTS

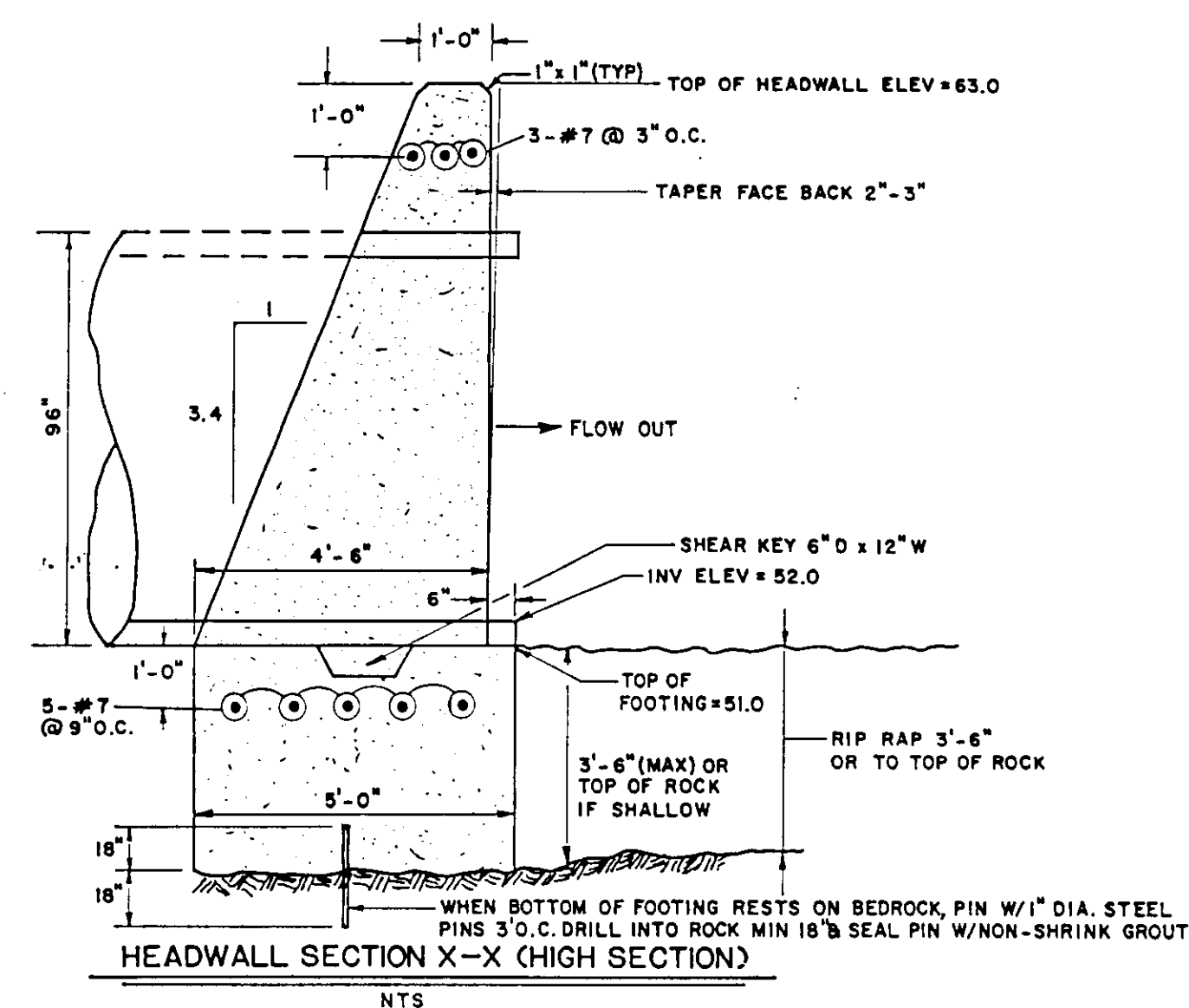


JUNCTION BOX PLAN VIEW (ELEVATIONS SHOWN ARE FOR SHAPED INVERT)  
NTS

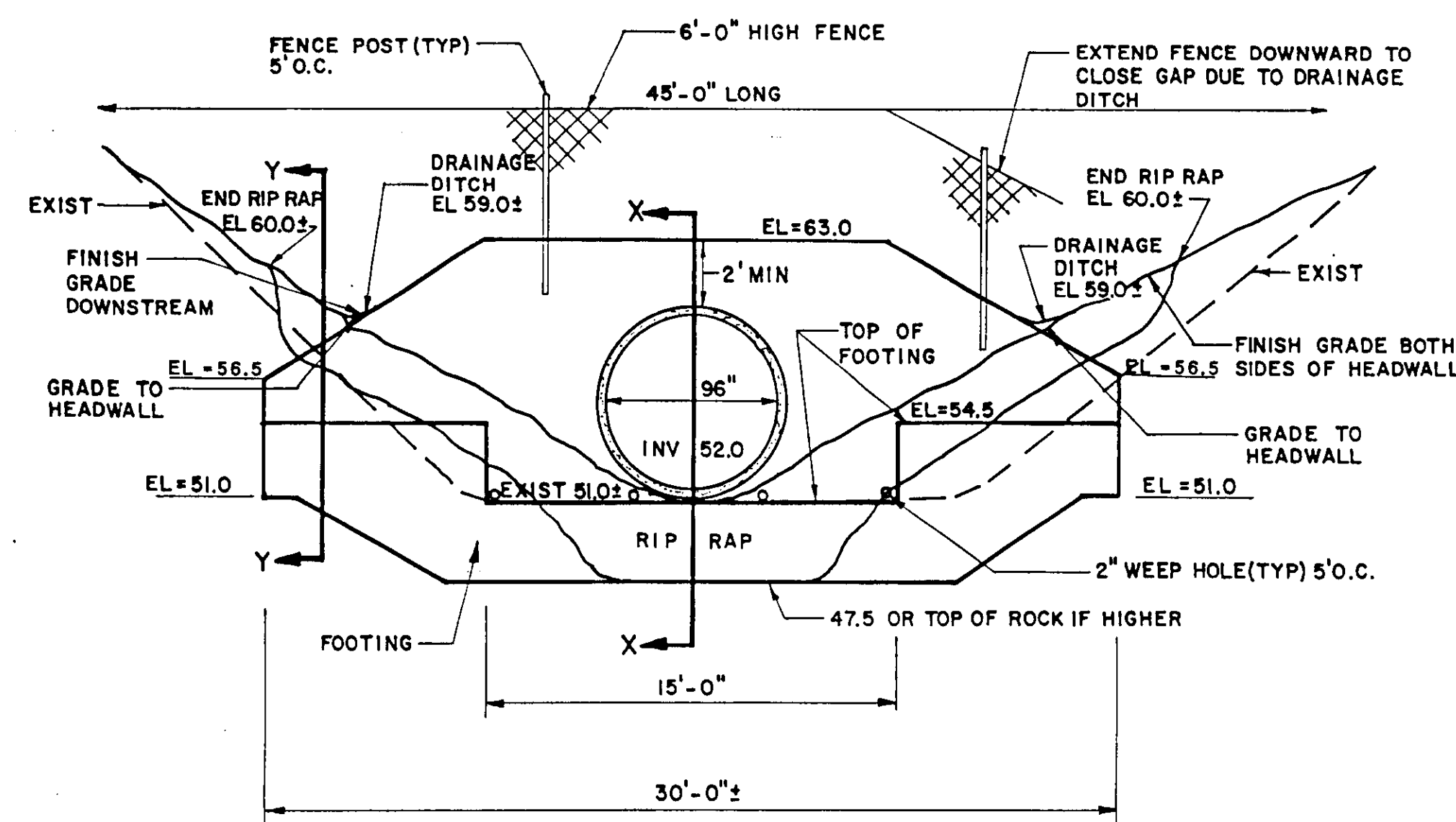
- JUNCTION BOX CONSTRUCTION SEQUENCE
1. CAST BOX FLOOR @ EL 52.70
  2. CAST 4 WALLS @ EXIST 90" RCP
  3. SET 96" RCP ON BOX FLOOR
  4. SHAPE & SLOPE FLOOR TO MATCH PIPE INVERTS
  5. CAST FINAL WALL & ROOF
  6. ADD MANHOLE & BACKFILL



HEADWALL SECTION Y-Y (LOW SECTION 8'-6" +/-)  
NTS



HEADWALL SECTION X-X (HIGH SECTION)  
NTS



HEADWALL  
NTS

DR. CLARENCE WELTI, P.E., P.C.  
GEOTECHNICAL ENGINEERING  
227 Williams Street - P.O. Box 397  
Hartford, CT 06134-1056  
(203) 633-4623 / FAX (203) 657-2514

June 6, 1996

Wenners Engineering Group  
P.O. Box 341056  
Hartford, CT 06134-1056  
Att: Ed Wenner

Re: Sherbrook Street; Hartford, CT.; Extension of Cemetery Brook Culvert

Dear Ed:

Herewith are boring data pertaining to the above. One boring was drilled into the rock, which is roughly at the stream bed. Probes were made in the stream to depths of 1 to 2 feet. The bottom of the probe is believed to be the top of bedrock.

Also included herewith are (1) sketches pertaining to the junction box and the end wall and (2) sections through the pipe bedding and the slope filling. These sketches are based generally on your grading plan. The material specifications should be as follows:

Backfill of Junction Box and End Wall

Percent Passing	Sieve Size
100	3.5"
50 - 100	3/4"
25 - 75	No. 4

The fraction, passing the No. 4 sieve, shall have less than 10%, passing the No. 200 sieve.

All backfill shall be compacted to at least 95% of modified optimum density (ASTM 1557 D).

The random fill shall conform to the following gradation:

Percent Passing	Sieve Size
100	6"
20 - 100	3/4"
0 - 100	No. 4

The fraction, passing the No. 4 sieve, shall have less than 20%, passing the No. 200 sieve.

The material shall be compacted to at least 92% of modified optimum density.

Regarding the stone bedding (1/2" stone) this a standard CONNDOT item in Specification 814 (M.O.I.01).

Regarding the rip rap this item is Standard Rip Rap in CONNDOT specification 814. The rip rap is to be laid on a 6" bed of 3/4" stone (unless bedrock is encountered). The 3/4" stone shall be placed on Geotextile (MIRAFIX 500X or equal).

Please call me, if you have any questions.

Very truly yours,

Clarence Welti, PhD; P.E.

DAYBOOK NO. 011395

(203) 721-8013

Wenners  
Engineering  
Group

P.O. Box 34-1056  
Hartford, Ct. 06134-1056

DATE: 6/96

REVISIONS: 9/96 JUNCTION BOX

CEMETERY BROOK CULVERT EXTENSION

PREPARED FOR:

THE CITY OF HARTFORD

116 SHERBROOKE AVENUE  
HARTFORD, CONNECTICUT

SHEET 2 OF 3