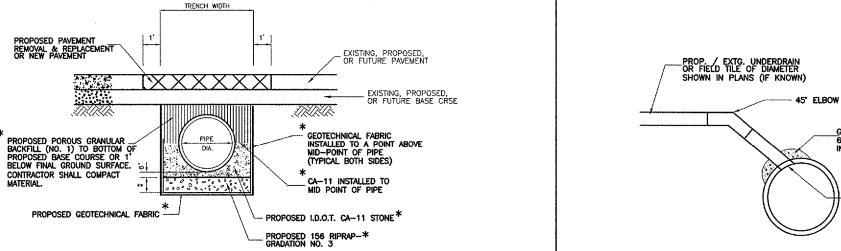


GROUT AROUND OPENING MINIMUM
6" DEPTH AT ALL PT. USING 3,500#
IN 28 DAY CONCRETE MIX.

CORE DRILLED OPENING



TRENCH

WIDTH

4.17

4.46 4.75

5.21

5.87

5.92

6.63

7.08

ELLIPTIAL, 18" EQUIV

No. 15 (No. 4) bar h --

SIDE VIEW

6.5' 6.75'

7.5'

7.5'

8*

9,

9.5'

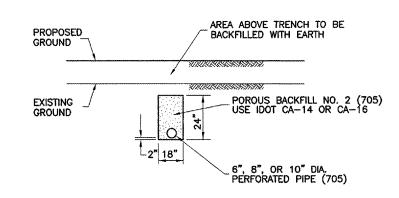
10"

18"

18"

DETAIL OF PIPE UNDERDRAIN / FIELD TILE PVMT. RMVL. WIDTH OUNDATION DEPTH OUTLET INTO STORM SEWER OR PIPE CULVERT

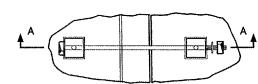
COST OF NEW PIPE, ELBOW AND GROUTING TO BE INCLUDED IN CONTRACT UNIT PRICES. ANY DAMAGE TO EXISTING STORM SEWER, TILE, OR PIPE CULVERT SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT ENGINEER AT THE CONTRACTOR'S EXPENSE.



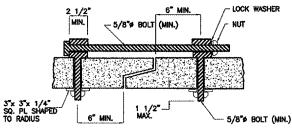
NOTES:

- PIPE UNDERDRAIN MATERIAL SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 705 AND THE SPECIAL PROVISIONS.
- COST OF POROUS BACKFILL NO. 2 (CA-14 OR CA-16), BENDS AND FITTINGS TO BE INCLUDED IN THE UNIT PRICE FOR UNDERDRAINS.
- NO ADDITIONAL COMPENSATION SHALL BE MADE FOR CHANGES IN ELEVATIONS MADE BY THE

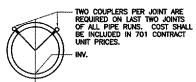
PERFORATED PIPE UNDERDRAIN DETAIL

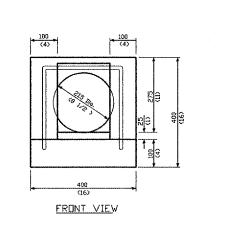


PLAN OF ONE COUPLER



SECTION A-A





Optional handling hole and 600 (24) long No. 15

PROPOSED TYPICAL SECTION - PIPE TRENCH

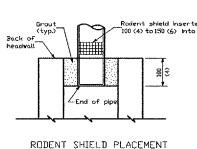
(ALL PROPOSED PIPES)

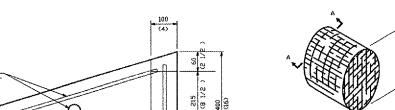
*= COST OF THESE ITEMS SHALL BE INCLUDED IN THE 701 PIPE CONTRACT

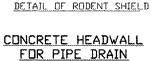
GROUND WATER IS EXPECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING, TO THE SATISFACTION OF THE ENGINEER. TO INSURE PROPER INSTALLATION OF PIPES. NO ADDITIONAL COMPENSATION BEYOND THE CONTRACT UNIT PRICES WILL BE ALLOWED FOR DEWATERING COSTS.

COMPACTED BEDDING AND BACKFILL MATERIALS SHALL BE REQUIRED AS SHOWN IN DETAIL. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

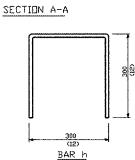
GENERAL PIPE NOTES:







MODIFIED I.D.O.T. STANDARD 601101



GENERAL NOTES

1.6 Dia. after galvanizing

An alternate paved invert meeting the approval of the Engineer may be substituted for that shown in side view.

