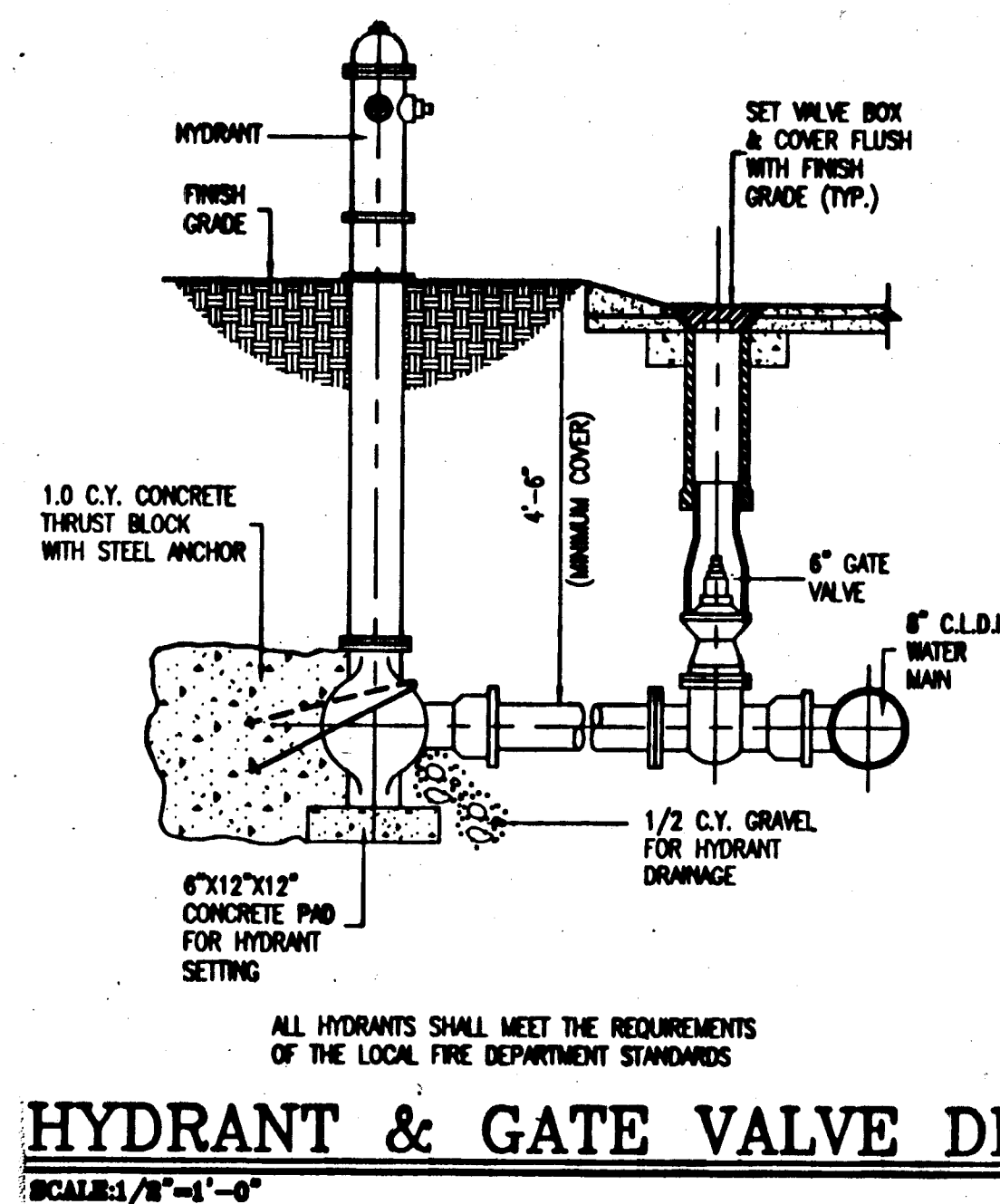
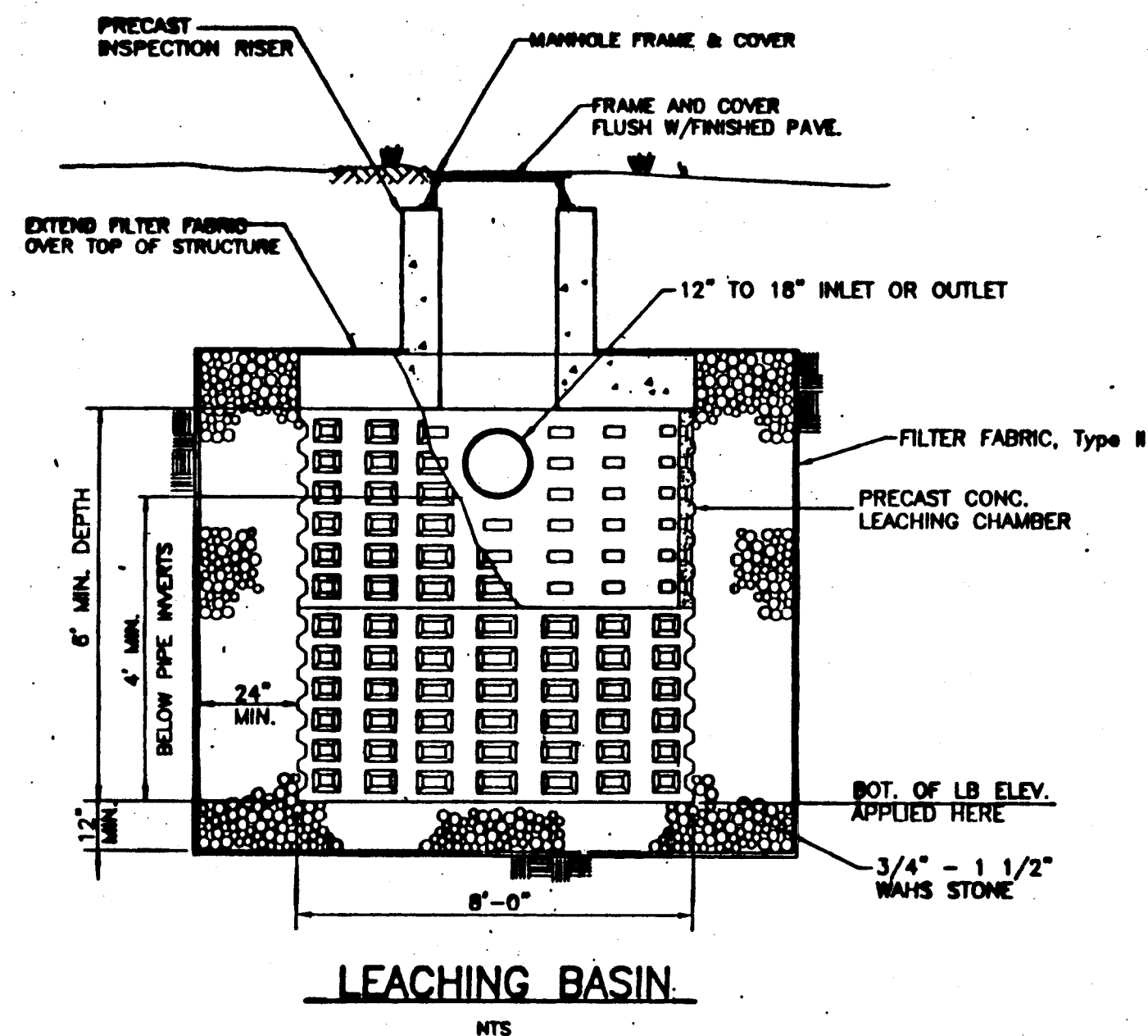
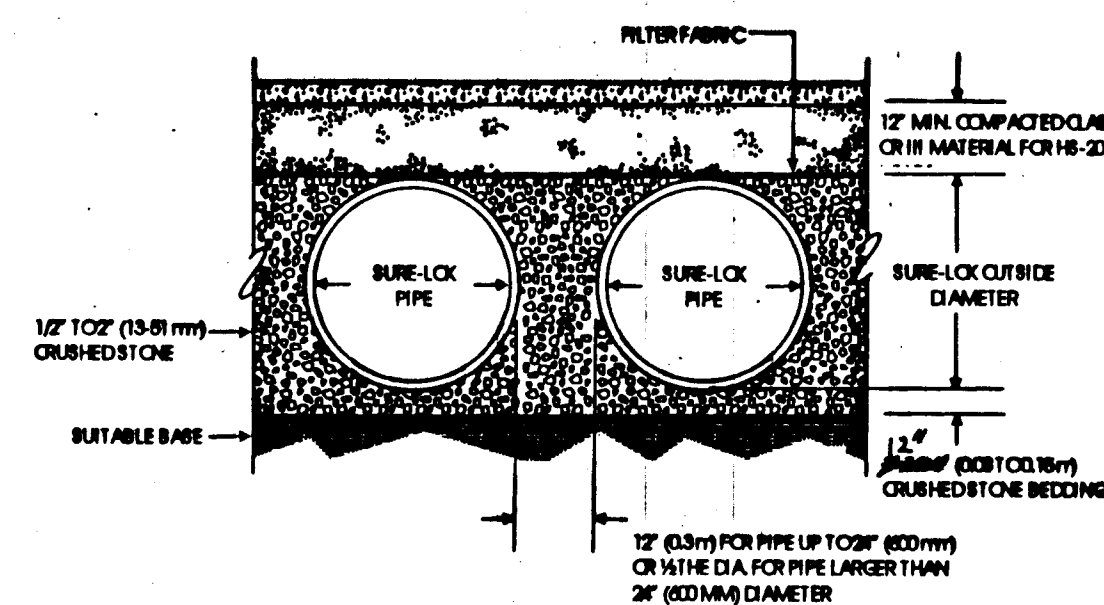


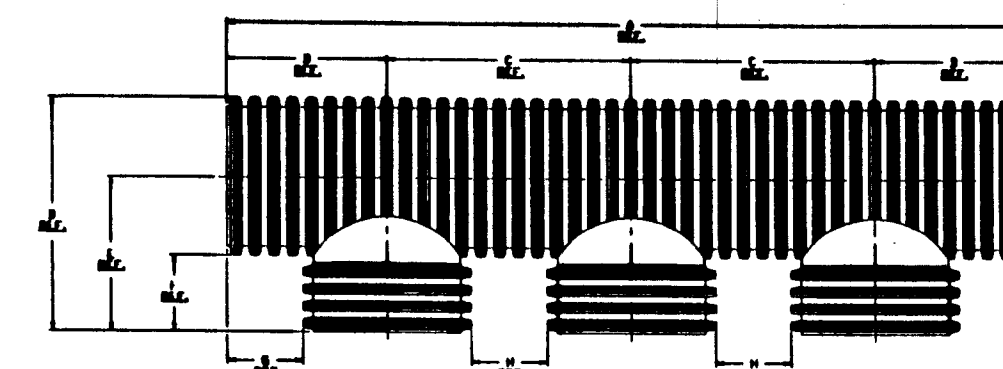


Typical Cross Section Only  
(Use Three Pipes To Accommodate HI-Q Triple Component Headers)



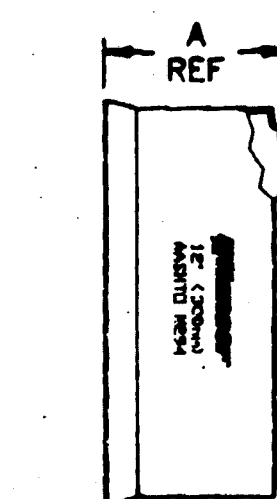
See "Worksheets and Example Calculations" for blank analysis worksheets useful for calculating total system storage requirements and for example system storage requirement calculations.

Size on Size Header Dimensions  
HI-Q Triple Component Headers



| Product Code | LD  | O.D.  | A        | B       | C       | D       | E       | F       | G       | H       |
|--------------|-----|-------|----------|---------|---------|---------|---------|---------|---------|---------|
| FCTCH120012  | 12" | 14.2" | 84"      | 16"     | 28"     | 22"     | 18"     | 9"      | 9"      | 9"      |
| FCTCH150015  | 15" | 17.7" | 98"      | 18 1/2" | 29 1/2" | 26"     | 19 1/2" | 11"     | 11"     | 11"     |
| FCTCH180018  | 18" | 21.9" | 111"     | 22 1/2" | 33"     | 33 1/2" | 25"     | 12"     | 12"     | 12"     |
| FCTCH240024  | 24" | 28.4" | 148"     | 30"     | 40"     | 44"     | 30"     | 16"     | 16"     | 16"     |
| FCTCH300030  | 30" | 36"   | 172"     | 34"     | 52"     | 51"     | 22 1/2" | 16"     | 16"     | 16"     |
| FCTCH360036  | 36" | 41.4" | 189 1/2" | 38"     | 60"     | 62"     | 24"     | 20 1/2" | 18 1/2" | 18 1/2" |

HI-Q End Cap 12" - 36"



| Size | A       |
|------|---------|
| 12"  | 7"      |
| 15"  | 9"      |
| 18"  | 10"     |
| 24"  | 14 3/8" |
| 30"  | 14 3/8" |

For reference only

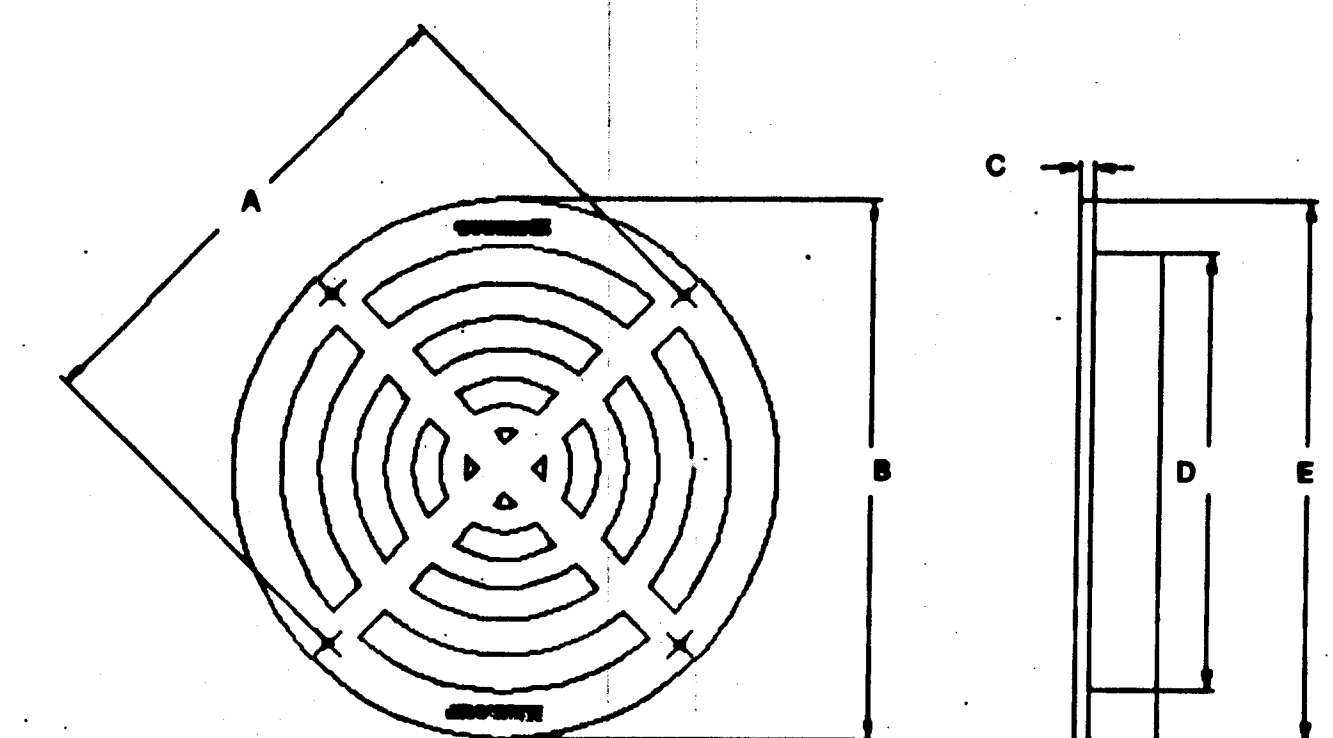
ALL HYDRANTS SHALL MEET THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT STANDARDS  
**HYDRANT & GATE VALVE DETAILS**  
SCALE: 1/8"=1'-0"

**HANCOR DRAIN GRATE SPECIFICATION**

**Scope**  
This specification describes Hancor 12- and 15-inch (300 and 375 mm) Drain Grate for use in non-trafficked clean-out port and surface inlet applications.

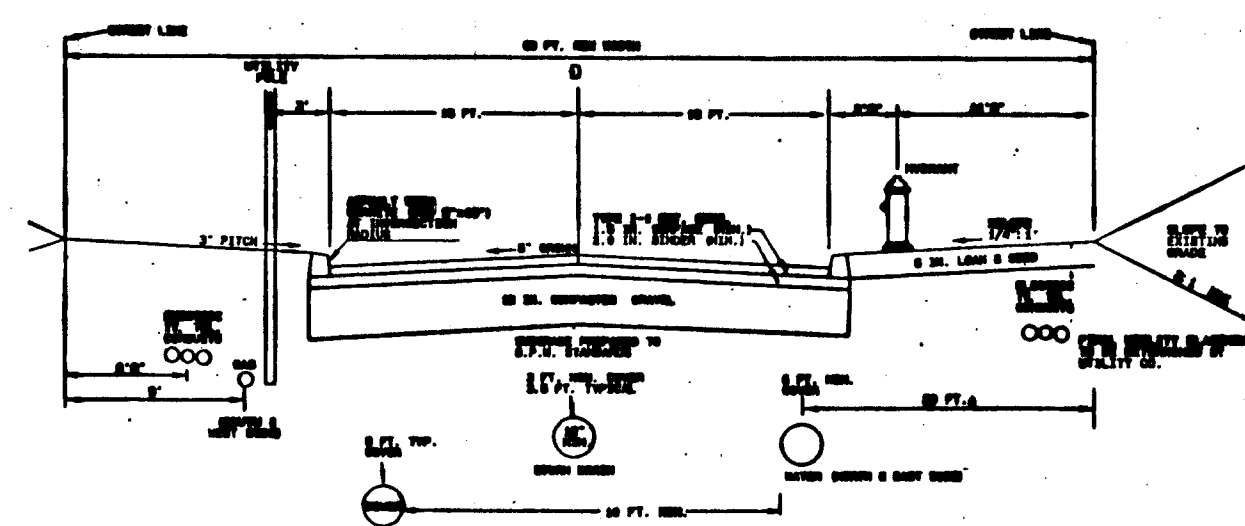
**Drain Grate Requirements**  
The Drain Grate shall be manufactured from high density polyethylene. The maximum load capacity shall be 1000 lbs. (454 kg).

**Installation**  
Hancor 12- and 15-inch (300 and 375 mm) drain grates are intended to work in conjunction with 12- and 15-inch (300 and 375 mm) Hancor HI-Q drainage pipes respectively. The bottom lip of the drain grate shall be inserted into the end of the HI-Q pipe section and then fastened to the pipe with four lag screws.

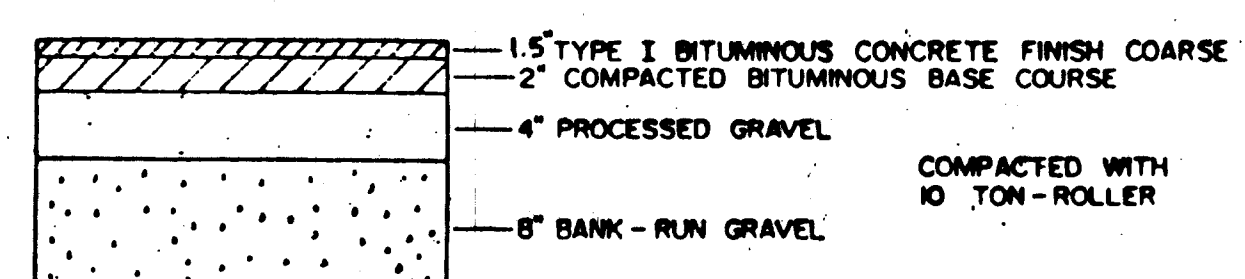


|                              | A        | B       | C      | D         | E       | F      |
|------------------------------|----------|---------|--------|-----------|---------|--------|
| 12-inch (300 mm) drain grate | 12 9/16" | 14 3/8" | 3 3/8" | 11 5/8"   | 14 5/8" | 1 7/8" |
| 15-inch (375 mm) drain grate | 16 1/2"  | 18"     | 3 3/8" | 14 11/16" | 18"     | 2"     |

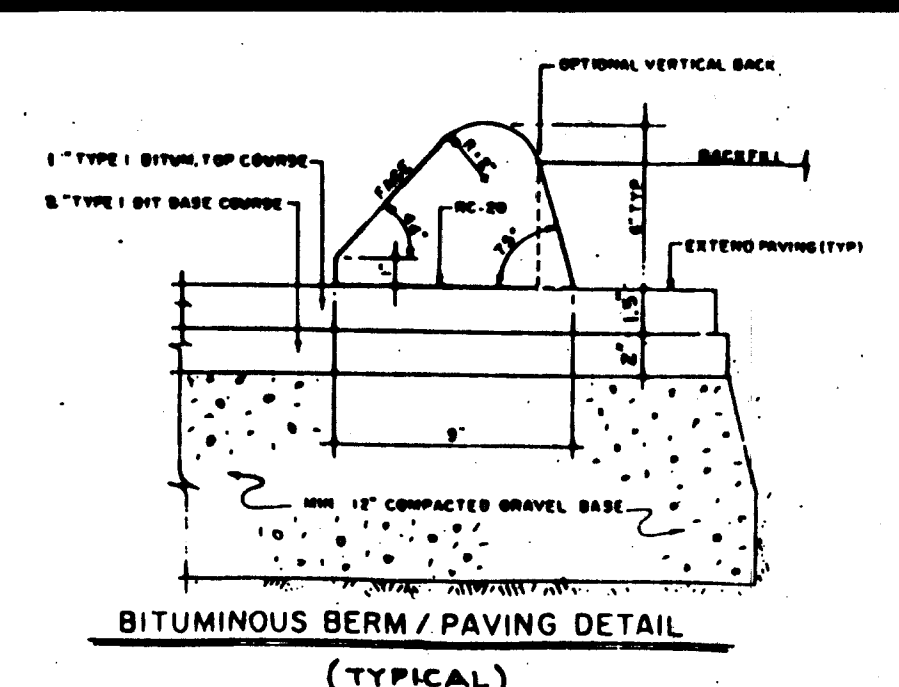
**Warning:** This product is furnished with four lag screws to be used as a fastening mechanism for proper installation. As well, this product has a maximum load capacity of 1000lbs (454kg) for the 12" drain grate and 1500lbs (681kg) for the 15" drain grate. Exceeding load capacity or poor installation may cause injury to persons and property.



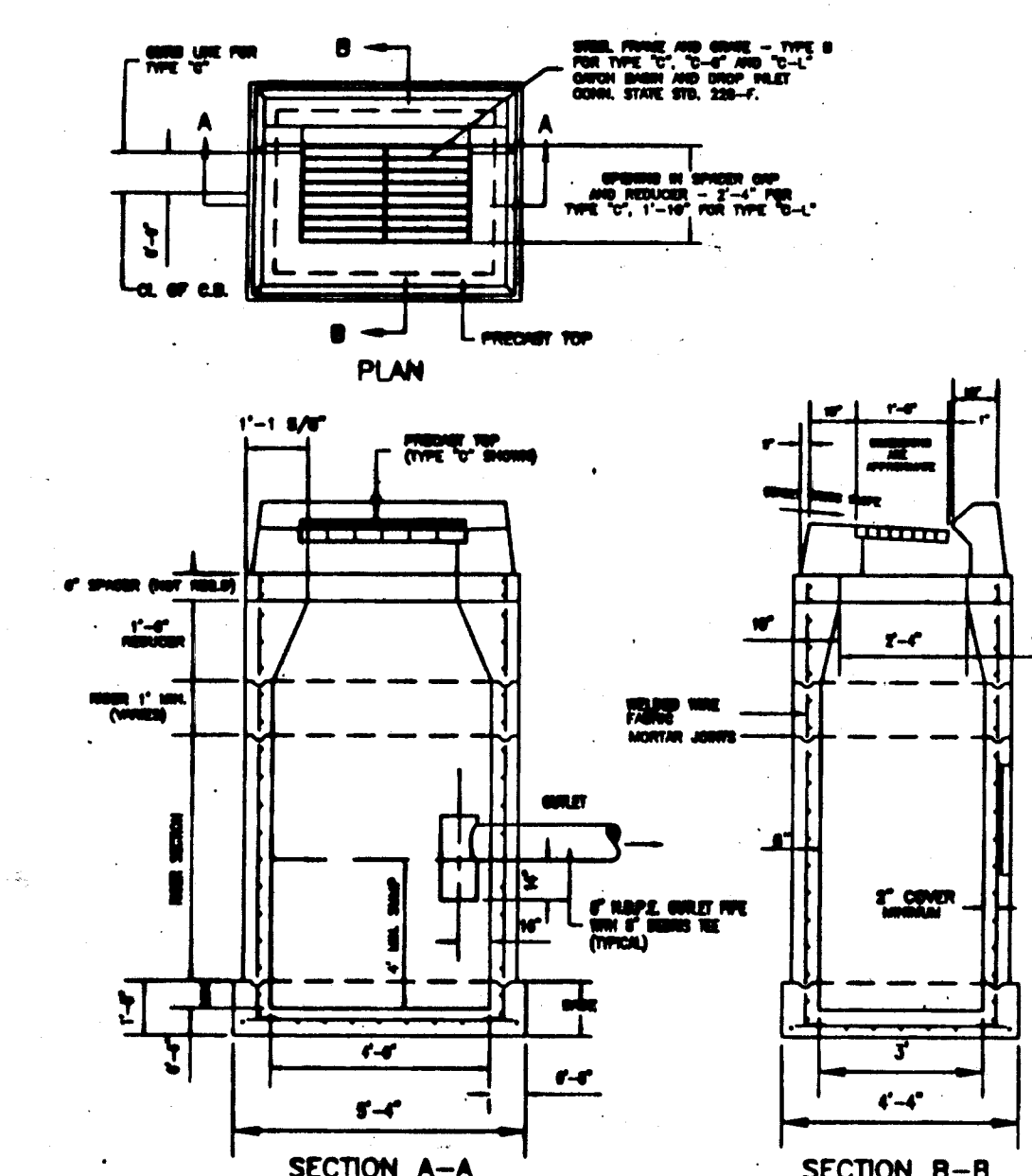
TYPICAL STREET CROSS SECTION  
NOT TO SCALE



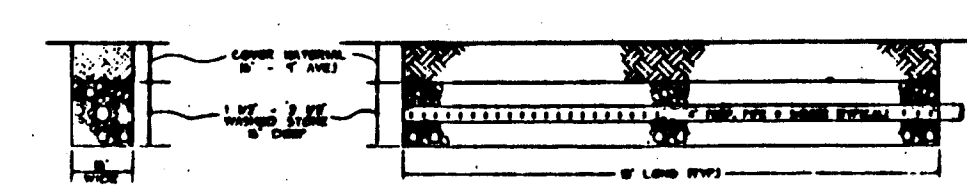
TYPICAL PAVEMENT SECTION  
N.T.S.



(TYPICAL)  
N.T.S.

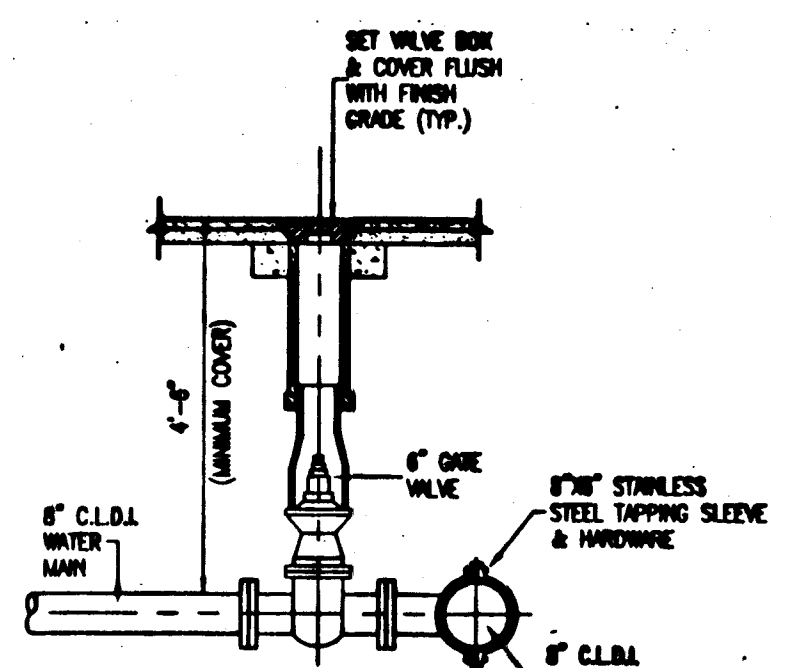
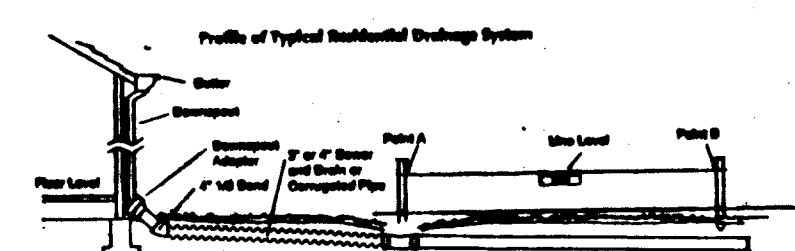


TYPICAL CATCH BASIN  
TYPE "C" OR "CL"



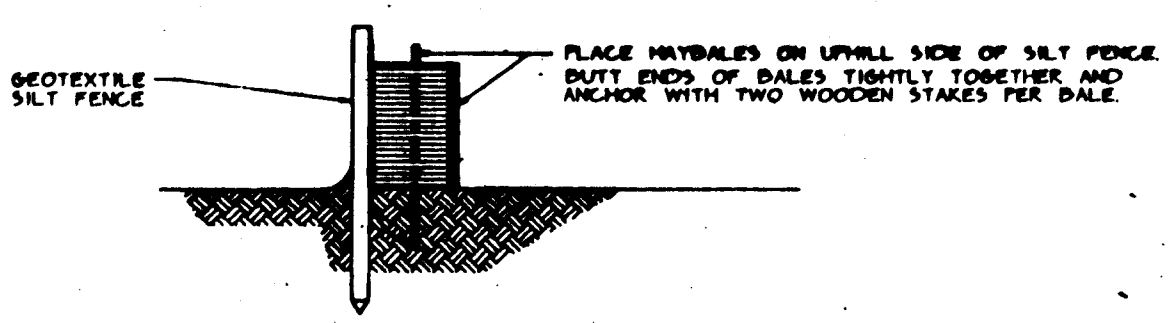
ROOF DRAIN INFILTRATION TRENCH DETAIL  
N.T.S.

**DETAIL**  
DOWNSPOUTS FROM ROOF GUTTERS TO BE CONNECTED TO TRENCHES WITH ONE TRENCH FOR FRONT GUTTER AND A SEPARATE TRENCH FOR THE REAR GUTTER. TRENCHES TO BE LOCATED MINIMUM 20' FROM EACH FOUNDATION AND 10' FROM THE PROPERTY LINE.

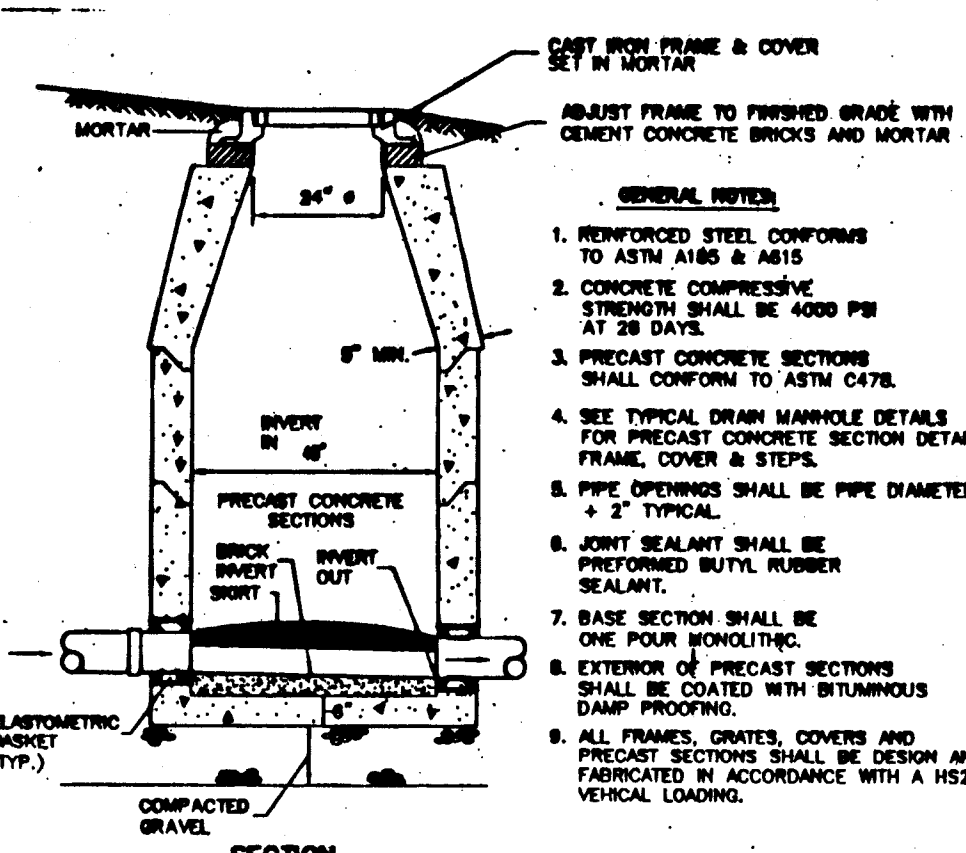


ALL TAPPING SLEEVE & VALVES SHALL MEET THE REQUIREMENTS OF THE LOCAL DEPARTMENT OF PUBLIC WORKS STANDARDS

**TAPPING SLEEVE & VALVE DETAILS**  
SCALE: 1/8"=1'-0"



HAYBALE/SILT FENCE DETAIL  
NOT TO SCALE



TYPICAL SEWER MANHOLE  
NOT TO SCALE

**CONSTRUCTION NOTES**

1. Call Dig-Safe 1-800-322-4844 a minimum of 72 hours prior to construction.
2. Contractor responsible for occupancy permits from traffic division Department of Public Works.
3. Notify field inspector 48 hours prior to construction.
4. Approved plan to be on site at all times.
5. Changes to this plan may occur as unforeseen conditions arise, all changes to be approved by field inspector.
6. Calcium chloride for dust control to be available at all times.
7. All materials and methods to conform to Town of East Longmeadow D.P.W. Standards.
8. Contractor shall ensure the maintenance of safety and traffic on the public and private ways affected by the construction of this project.
9. Contractor shall protect all slopes, vegetation, paving, walks, and improvements outside the areas to be affected by the construction of this project.
10. "As Built Plans" to be submitted to the D.P.W. upon completion of this project.
11. East Longmeadow D.P.W. approval is not to be construed as an all inclusive approval as other approvals may be necessary, i.e. Town Forester, conservation, fire Dept., water dept., etc.

**DETAIL SHEET**

EXTENSION OF  
**LORI LANE**

EAST LONGMEADOW, MA.

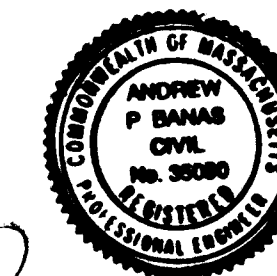
OWNED BY

**JOHN & MARYANNE HASLEY**

REV. 12-06-05 REV. 1-12-06

**SMITH ASSOCIATES  
SURVEYORS, INC.**

165 SHAKER RD., EAST LONGMEADOW, MASS. 01028



SHEET 3 OF 3