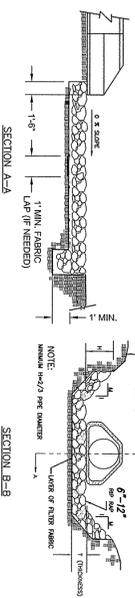
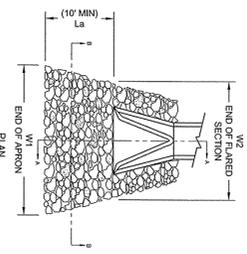


FE#	MIN. LG.
1	10'
2	10'
4	16'
5	16'



- NOTES:
- CLASS OR MEDIA SIZE OF BRIDGE AND LENGTH, WIDTH AND DEPTH OF APRON TO BE DESIGNED BY THE ENGINEER.
 - REFER TO THE CONSTRUCTION STANDARDS FOR BRIDGE STANDARDS.
 - REPAIR SHOULD EXTEND UP BOTH SIDES OF THE APRON AND AROUND THE END OF THE PIPE OR CURVE AT DIAMETER OR CURVE HEIGHT.
 - THERE SHALL BE NO OVERLAP FROM THE END OF THE APRON TO THE SURFACE OF THE RECEIVING CHANNEL. THE AREA TO BE PAVED OR REPAIRED SHALL BE OVERCUT SO THAT THE INVERT OF THE APRON SHALL BE CUTOFF OR TOE WALL AT THE DOWNSTREAM END.
 - THE WIDTH W₁ OF THE END OF THE APRON SHALL BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL.
 - ALL SUBGRADE FOR STRUCTURE TO BE COMPACTED TO 95% OR GREATER.
 - NO BRGS OR CURVES IN THE HORIZONTAL ALIGNMENT OF THE APRON WILL BE PERMITTED.
 - ALL BRGS OR CURVES IN THE VERTICAL ALIGNMENT OF THE APRON WILL BE PERMITTED.
 - ALL BRGS OR CURVES IN THE HORIZONTAL ALIGNMENT OF THE APRON SHALL BE PERMITTED.
 - ANY DISTURBED AREA FROM END OF APRON TO RECEIVING CHANNEL MUST BE STABILIZED.

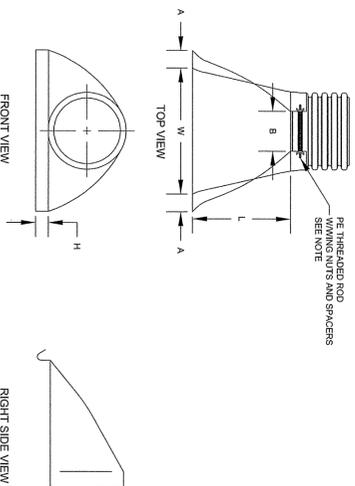
NOT TO SCALE

TOWN OF FRAMMINGHAM
DEPARTMENT OF PUBLIC WORKS

RIP RAP APRON
AT PIPE OUTFALLS

DATE: SEPT 2008
REV: 2
DETAIL NO: D-4.4.0

PIPE SIZE	A	B (MAX)	H	L	W
12 IN	6.50 IN	10.00 IN	6.50 IN	25.00 IN	29.00 IN
15 IN	6.50 IN	10.00 IN	6.50 IN	25.00 IN	29.00 IN
18 IN	7.50 IN	15.00 IN	6.50 IN	32.00 IN	35.00 IN
24 IN	7.50 IN	18.00 IN	6.50 IN	36.00 IN	45.00 IN
30 IN	7.50 IN	12.00 IN	8.60 IN	58.00 IN	63.00 IN
36 IN	7.50 IN	25.00 IN	8.60 IN	58.00 IN	63.00 IN



NOTES:

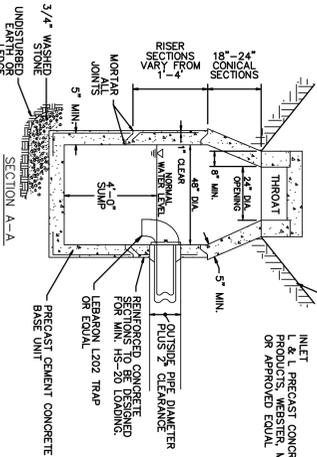
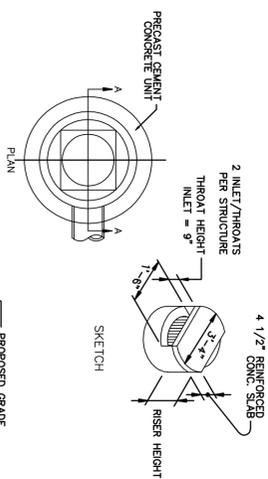
- PIPE THREADED ROD W/ING NUTS PROVIDED FOR END SECTIONS 12'-24", 30" & 36" END SECTIONS REQUIRE TWO (2) THREADED RODS FOR ASSEMBLY.
- ALL DIMENSIONS ARE NOMINAL.

NOT TO SCALE

TOWN OF FRAMMINGHAM
DEPARTMENT OF PUBLIC WORKS

FLARED HDPE END SECTIONS

DATE: SEPT 2008
REV: 0
DETAIL NO: D-4.6.0



3/4" WASHED STONE 12" AROUND STRUCTURE FROM 6" BELOW BASE TO TOP OF STRUCTURE. PRECAST CONCRETE DROP INLET

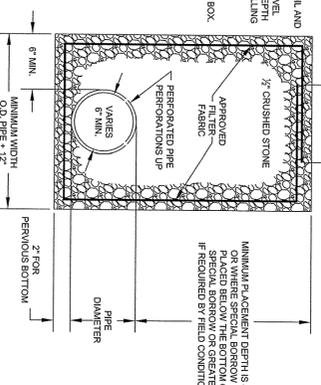
NOT TO SCALE

TOWN OF FRAMMINGHAM
DEPARTMENT OF PUBLIC WORKS

RIP RAP APRON
AT PIPE OUTFALLS

DATE: SEPT 2008
REV: 2
DETAIL NO: D-4.4.0

- NOTES:
- PIPE UNDER ROW, SCHEDULE 20 OR 40 PERFORATED PVC.
 - OUTLET PIPE UNDER ROADWAY SHALL BE SCHEDULE 40.
 - PERFORATED PVC SHALL BE SCHEDULE 40.
 - SUBDRAIN LOCATED APPROXIMATELY AT INTERSECTION OF INLETS.
 - GRAVEL (LAND SPECIAL BORROW WHERE REQUIRED) SHALL INTERSECT CRUSHED STONE FOR SUBDRAIN.
 - PERFORATED PVC SHALL BE APPROVED AND TYPE III WHEN AVAILABLE SYNTHETIC FABRIC.

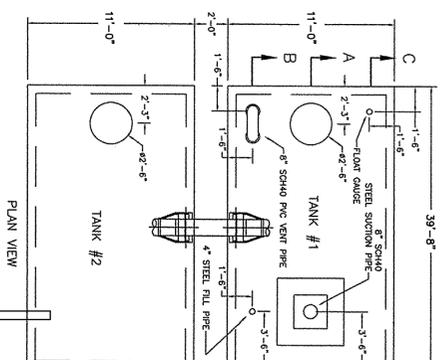


NOT TO SCALE

TOWN OF FRAMMINGHAM
DEPARTMENT OF PUBLIC WORKS

SUBDRAIN

DATE: SEPT 2008
REV: 0
DETAIL NO: D-4.7.0



- BACKFILL NOTES:
- MATERIAL SHALL BE 3/4" CRUSHED STONE, MINIMUM 12" THICK.
 - BACKFILL MATERIAL SHALL BE NO GREATER THAN 1/2" AND SHALL BE COMPACTED TO 95%.
 - PROTECT ALL EXPOSED SURFACES TO BE PROTECTED TO PREVENT DAMAGE TO ADJACENT PROPERTY.
 - INTERCONNECTION PIPE WITH 1/2" CRUSHED STONE.
 - GRAVEL ON ALL SIZES.
 - INSULATION IS REQUIRED IF THE FILL OVER THE PRE-CRISTEN IS LESS THAN 4 FEET.

NOTES:

- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.
- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.
- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.
- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.
- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.
- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.
- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.
- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.
- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.
- REPAIRING PER ASHLE 820-44 LANDING COVER 1' TO 5 FEET.

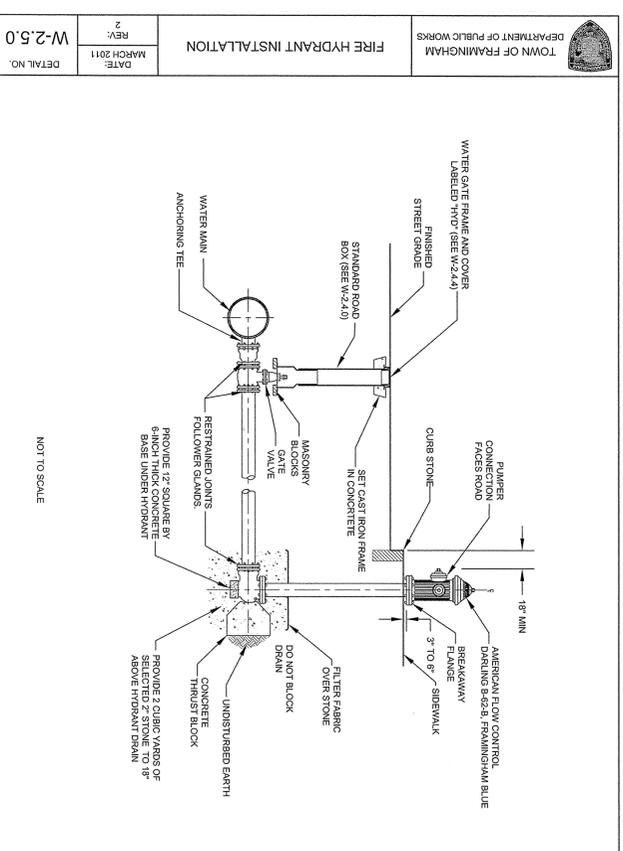
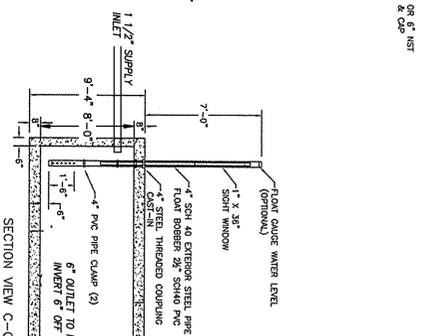
ISHA
CONCRETE PRODUCTS
773 Salem Street
P.O. Box 520
Wilmington, MA 01887

New England's Premier Precaster
800-696-7432 (SHEA)
www.sheaconcrete.com
87 Haverhill Road
P.O. Box 807
Nottingham, NH 03290

FIRE CISTERN
Page: 1 of 1
6/17/2011
Frammingham

2 - 20,000 GALLON TANKS REQUIRED

ALL CONNECTIONS SHALL BE WATER-TIGHT CAST IN THE TANK WALL (UNLESS FITTINGS/CENTURY SLEEVES OR EQUAL)



NOT TO SCALE

TOWN OF FRAMMINGHAM
DEPARTMENT OF PUBLIC WORKS

FIRE HYDRANT INSTALLATION

DATE: MARCH 2011
REV: 2
DETAIL NO: W-2.5.0

CLERK OF THE TOWN OF FRAMMINGHAM
RECEIVED AND RECORDED APPROVAL FROM THE PLANNING BOARD
OF THIS PLAN ON _____ AND NO APPEAL WAS TAKEN
FOR TWENTY (20) DAYS THEREAFTER.

OWNER
NEXUM DEVELOPMENT CORP.
6 CENTRAL STREET
FRAMMINGHAM, MA

APPLICANT, DEVELOPER & SUBDIVIDER
PAUL CROFT
23 MILL STREET
NATICK, MA.

CONNORSTONE
CONSULTING CIVIL ENGINEERS
AND
LAND SURVEYORS
10 SOUTHWEST CUTOFF, SUITE 7
NORTHBOROUGH, MASSACHUSETTS 01532

DESIGNED BY: VC
CHECKED BY: VC
COMPUTED BY: VC
FIELD SURVEY: REM
DRAWN BY: REM
SCALE: NONE
SHEET 13 OF 16.

DEFINITIVE PLAN
CONSTRUCTION DETAILS
FORD'S HILL ESTATES
IN
FRAMMINGHAM, MA

APPROVAL UNDER THE
SUBDIVISION CONTROL LAW,
IS REQUIRED.
FRAMMINGHAM PLANNING BOARD

DATE: _____

3-6-2013
REVISIONS
DATE: JAN. 3, 2013