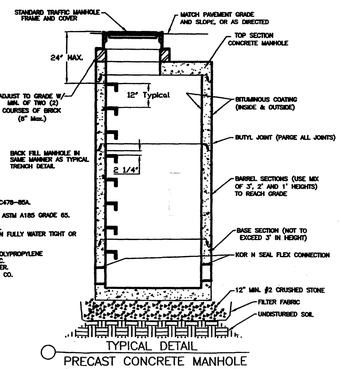
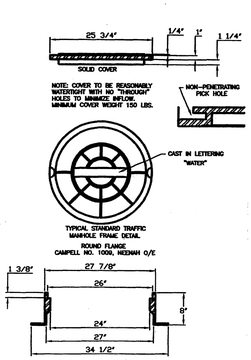


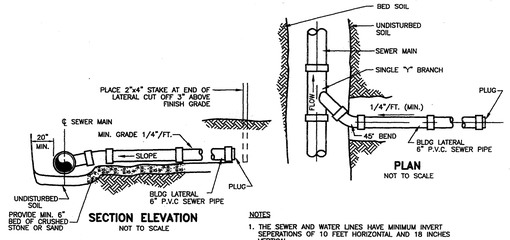
NOTES:
1. CONCRETE AND REINFORCING PER ASTM C478-85A.
2. CONCRETE – 4000 PSI
3. REINFORCEMENT- ASTM A615 GRADE 60, ASTM A185 GRADE 65.
4. ENTRAINED AIR 5.5% – 8.5%
5. BITUMINOUS COATED INSIDE AND OUTSIDE.
6. LINE SEAL PIPE TO MANHOLE CONNECTION FULLY WATER TIGHT OR USE CAST-IN "BOOT".
7. BUTYL JOINT SEALANT.
8. STEPS – M.A. INDUSTRIES COPOLYMER POLYPROPYLENE PLASTIC STEPS MIN. 6" EXPOSED, 12" O.C.
9. TRAFFIC DESIGN BASE, BARREL, AND COVER.
10. SAME OR FULLY EQUAL TO FORT MILLER CO.

TYPICAL DETAIL

PRECAST CONCRETE MANHOLE
(ALL MANHOLES TO BE TRAFFIC DESIGN)
NO SCALE



MANHOLE CASTING
NO SCALE



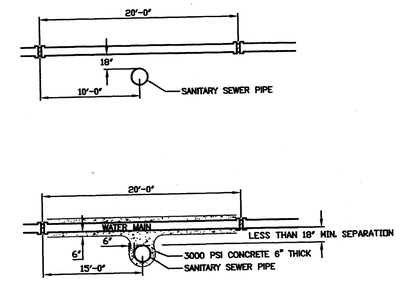
SECTION ELEVATION
NOT TO SCALE

PLAN
NOT TO SCALE

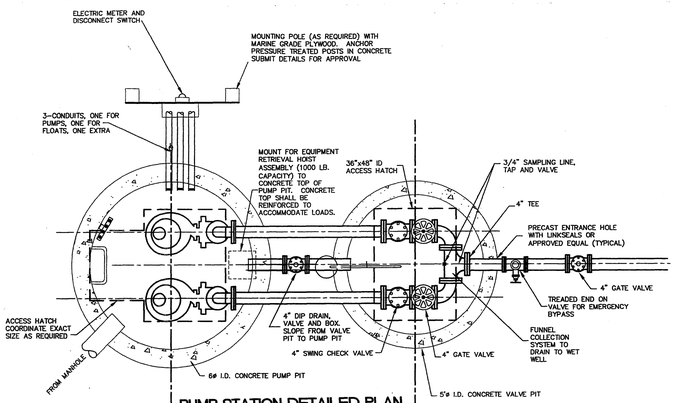
NOTES
1. THE SEWER AND WATER LINES HAVE MINIMUM INVERT SEPERATIONS OF 10 FEET HORIZONTAL AND 18 INCHES VERTICAL.
2. ALL CROSSINGS OF THE SEWER AND STORM WATER SYSTEM THAT HAVE A VERTICAL SEPERATION OF LESS THAN 18 INCHES WILL HAVE THE LOWER PIPE PLACED IN A SLEEVE AND BACKFILLED WITH A HIGH SLUMP PORTLAND CEMENT CONCRETE.

SEWER LATERAL CONNECTION
NOT TO SCALE

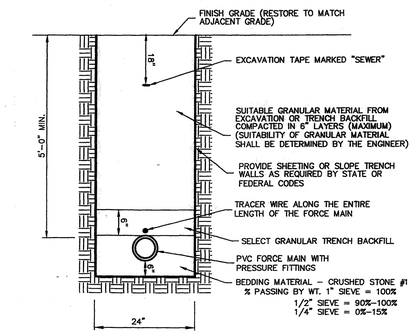
NOTES:
1. MINIMUM VERTICAL SEPARATION BETWEEN SANITARY SEWER AND WATER LINE TO BE 18"
2. IF 18" MINIMUM VERTICAL SEPARATION OR 10' MINIMUM HORIZONTAL SEPARATION CANNOT BE MAINTAINED, SANITARY SEWER SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED PRIOR TO BACKFILLING. WATER MAIN EQUIVALENT MATERIAL SHALL EXTEND 10' IN EACH DIRECTION FROM POINT OF CROSSING. (Ie. 20' SECTION CENTERED OVER CROSSING)
3. CENTER WATER MAIN UNDER SANITARY SEWER PIPE WITH SEWER JOINTS EQUIDISTANT FROM WATER MAIN. SEWER JOINTS TO BE AS FAR FROM WATER MAIN JOINTS AS POSSIBLE.
4. IF 18" SEPARATION CANNOT BE MAINTAINED, WATER MAIN TO BE ENCASED IN CONCRETE 10 FT. ON EITHER SIDE OF CROSSING.



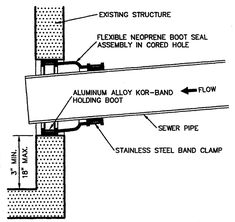
SANITARY AND WATER CROSSING DETAIL
NO SCALE



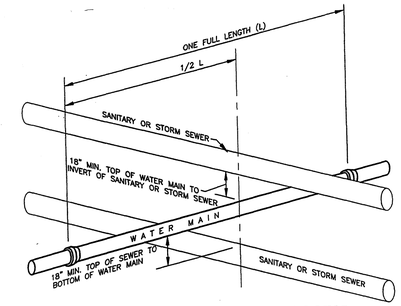
PUMP STATION DETAILED PLAN



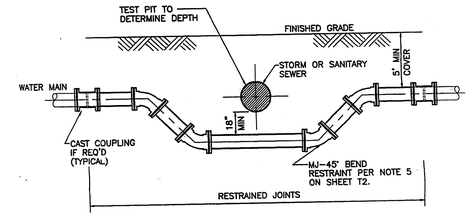
SEWER FORCE MAIN TRENCH DETAIL
NOT TO SCALE



CORED IN FIELD CONNECTION
NOT TO SCALE



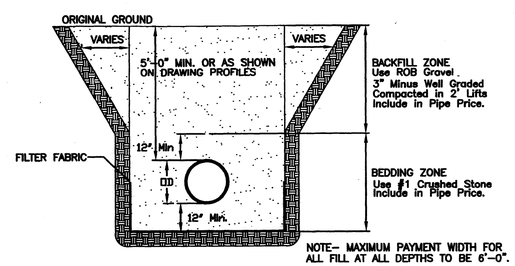
WATER / SEWER CROSSING



NOTE:
1. CONTRACTOR MAY USE PIPE DEFLECTIONS INSTEAD OF BENDS.
2. BENEATH STORM OR SANITARY SEWER CONTRACTOR SHALL PLACE EITHER COMPACTED PIPE ZONE GRAVEL OR NO. 1A STONE AND TAMP TO ACHIEVE SPECIFIED COMPACTION

WATER / SEWER CROSSING INSTALLATION DETAIL

NOTES:
ALL TRENCH EXCAVATIONS SHALL MEET O.S.H.A. REQUIREMENTS USE TRENCH BOXES, TRENCH SHEETING, SLOPE OR BENCH TRENCH SIDEWALLS AS PER O.S.H.A. SPEC'S.



NOTE– MAXIMUM PAYMENT WIDTH FOR ALL FILL AT ALL DEPTHS TO BE 6'-0".

TYPICAL TRENCH DETAIL
UNSTABLE TRENCH BOTTOM
NO SCALE

REQUIRED NOTES; ALL SEPTIC PLANS

1. Sanitary facilities may be constructed only after a RCHD "Permit to Construct" has been issued. These facilities shall not be placed in operation until a RCHD "Certificate of Compliance" has been issued. Contact the appropriate RCHD representative regarding the procedures involved.

2. A licensed design professional shall supervise system installation; certify that construction followed the approved plan; furnish an "as built" plan; and apply to the RCHD for a "Certificate of Compliance".

3. Inspections of sanitary facility construction shall be conducted jointly by a licensed professional and RCHD representative:
   a. Prior to site development;
   b. After site preparation prior to fill placement (systems in fill only);
   c. During percolation testing of the stabilized fill (systems in fill only);
   d. After adjustment of the pump or siphon chamber (dosed systems only);
   e. Prior to backfilling pipes, tanks, pits, well seals, etc.;
   f. After final grading and seeding.

4. No existing or proposed water supply or sewage treatment facilities are located within 200 feet of this project except as specifically noted on the plan.

5. No roof, floor, footing, cooling water, backwash drains, etc. shall be connected to the sewage treatment system and all discharges shall be directed away from the treatment area.

6. No vehicular parking or traffic shall be allowed on any portion of the sewage treatment system except as shown.

7. The owner shall furnish the purchaser of a lot depicted on this plan with a copy of the approved plan, or if constructed, an accurate as-built plan depicting installed facilities.

RENSSELAER COUNTY DEPT. OF HEALTH
REQUIRED NOTES

REQUIRED GENERAL NOTES; ALL PLANS

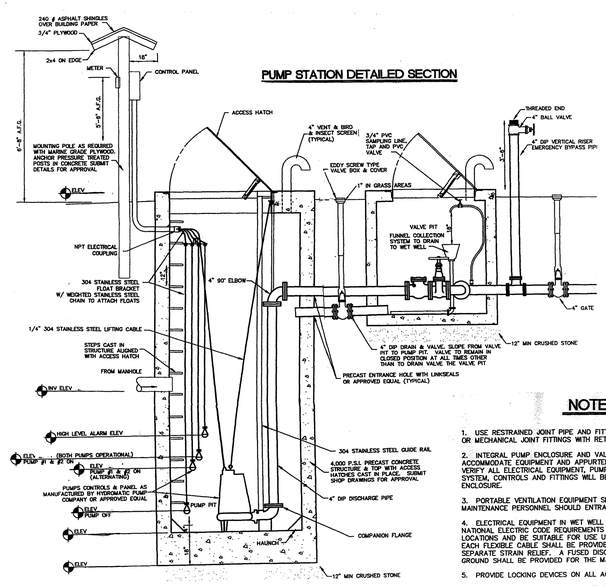
1. There shall be no deviation from these plans during construction without prior approval of a licensed design professional and the Rensselaer County Department of Health (RCHD).

2. The materials and specifications noted on the plans must be utilized unless alternates are accepted and approved in writing by a licensed design professional and RCHD representative.

3. Follow all manufacturer's instructions for component installation unless otherwise directed by a licensed design professional and RCHD representative.

4. Prior to excavating, consult the Underground Facilities Protective Organization.

5. Electrical equipment installed in accordance with this plan must be New York State Board of Fire Underwriters certified.



NOTES

1. USE RESTRAINED JOINT PIPE AND FITTINGS FOR ALL NEW FORCE MAINS OR MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS.

2. INTEGRAL PUMP ENCLOSURE AND VALVE PIT SHALL BE SIZED TO ACCOMMODATE EQUIPMENT AND APPURTENANCES SHOWN. COORDINATE AND VERIFY ALL ELECTRICAL EQUIPMENT, PUMPS, VALVES, PUMP RETRIEVAL SYSTEM, CONTROLS AND FITTINGS WILL BE ACCOMMODATED WITHIN THE ENCLOSURE.

3. PORTABLE VENTILATION EQUIPMENT SHALL BE PROVIDED BY MAINTENANCE PERSONNEL SHOULD ENTRANCE TO WET WELL REQUIRED.

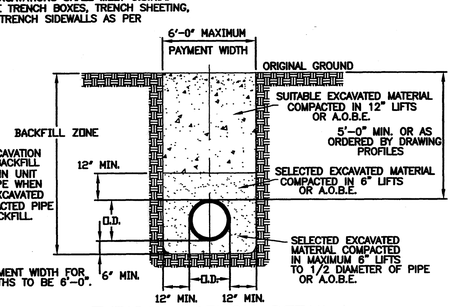
4. ELECTRICAL EQUIPMENT IN WET WELL SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE REQUIREMENTS FOR CLASS 1 GROUP D, DIVISION 1 LOCATIONS AND BE SUITABLE FOR USE UNDER CORROSIVE CONDITIONS. EACH FLEXIBLE CABLE SHALL BE PROVIDED WITH A WATERTIGHT SEAL AND SEPARATE STRAIN RELIEF. A FUSED DISCONNECT SWITCH LOCATED ABOVE GROUND SHALL BE PROVIDED FOR THE MAIN POWER FEED.

5. PROVIDE LOCKING DEVICES ON ALL ACCESS HATCHES.

6. PROVIDE CONNECTION FOR A PORTABLE GENERATION

NOTES:
1. ALL TRENCH EXCAVATIONS SHALL MEET O.S.H.A. REQUIREMENTS USE TRENCH BOXES, TRENCH SHEETING, SLOPE OR BENCH TRENCH SIDEWALLS AS PER O.S.H.A. SPEC'S.

ALL COST FOR EXCAVATION AND COMPACTED BACKFILL TO BE INCLUDED IN UNIT PRICE BID FOR PIPE WHEN USING SELECTED EXCAVATED MATERIAL FOR COMPACTED PIPE BEDDING AND BACKFILL.



NOTE– MAXIMUM PAYMENT WIDTH FOR ALL FILL AT ALL DEPTHS TO BE 6'-0".

TYPICAL TRENCH DETAIL
USING EXCAVATED MATERIAL BEDDING

TOWN OF BRUNSWICK PLANNING BOARD	RENSSELAER COUNTY DEPT. OF HEALTH

DANSKIN LAND SURVEYING LLC P.O. BOX 72 TROY, N.Y. 12181 TEL: 518-279-3002	BRUNSWICK MEADOWS SEWAGE DETAILS	
REVISIONS:	TOWN OF BRUNSWICK	RENSSELAER CO., N.Y.
	SCALE: AS NOTED	DATE: 3-13-2006
	FIELD: MND	F.BK.#:
	OFFICE: RJD	C'AD: RD SHEET 8 OF 13