

SCOPE OF WORK
SEWAGE PUMP STATION

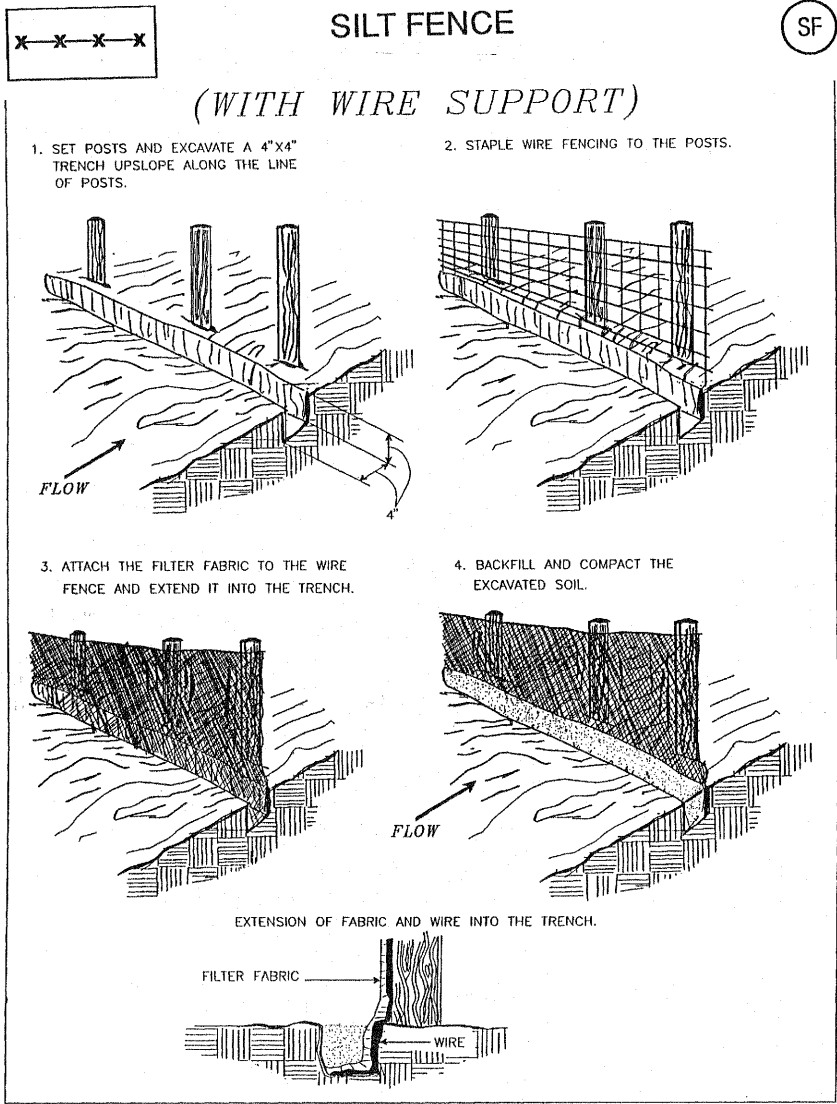
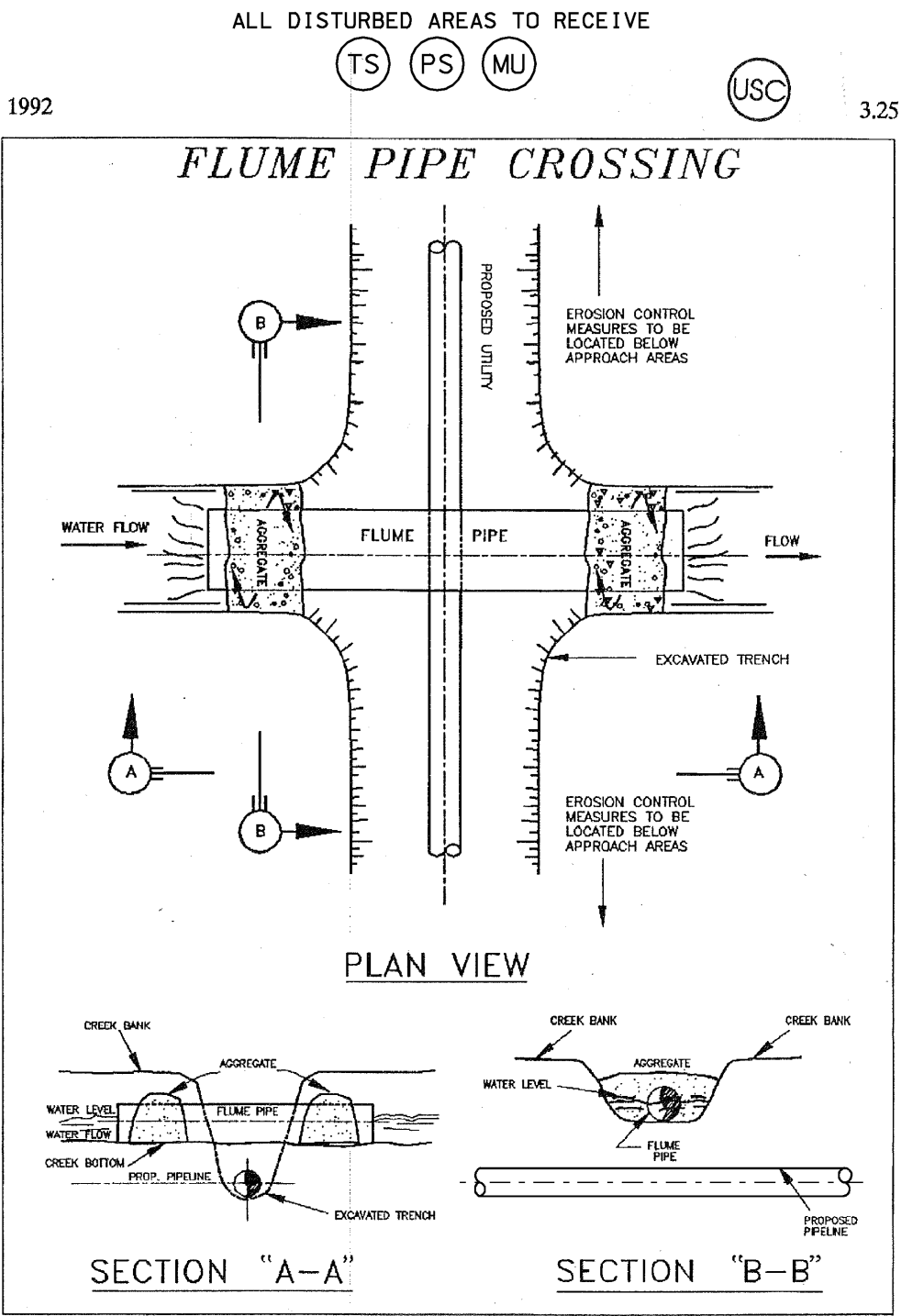
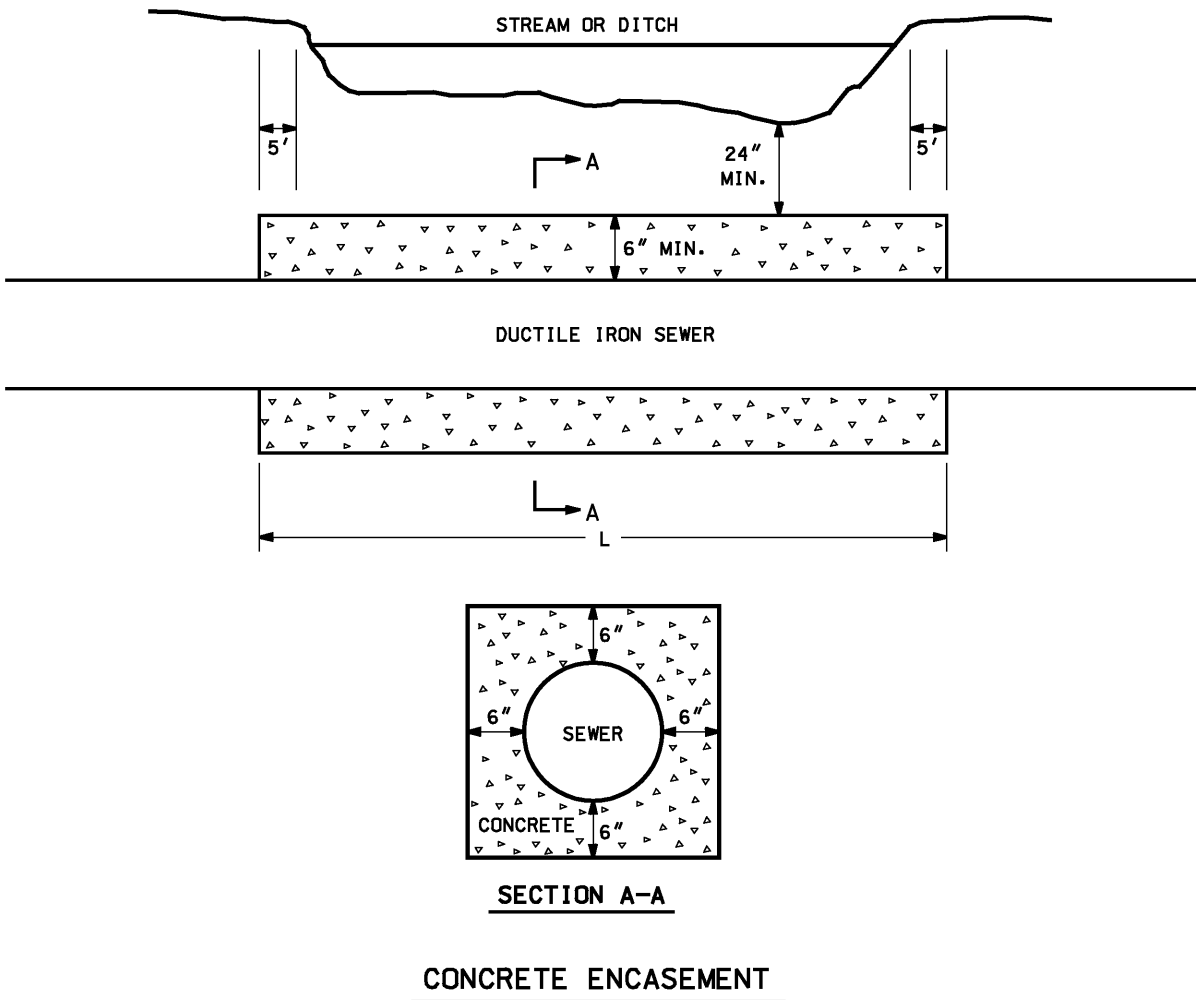
- The sewage pump station shall be an above-ground suction lift pump station with two (2) pump assemblies with two (2) pumps in service in each assembly. The pump station shall meet the specifications and the pumps shall be similar to the Series 4B2D/1760 rpm as manufactured by Smith-Lovless, or equal.
- The pump station shall include four (4) vertical, close-coupled, motor driven, vacuum primed, non-clog pumps; valves; internal piping; central control panel with circuit breakers; motor starters and automatic pumping level controls; enclosure heater; ventilating blower; priming pumps with a compatible pump prime detection system and appurtenances; and all internal wiring. The pumping systems shall be enclosed in a hinged, fiberglass enclosure with lockable hasp assembly.
- The sewage pump station site improvements also include an appropriately sized standby generator, control building and site parking, lighting and fence security.
- The sewage pump station site plan shows an emergency storage structure, a twelve (12) foot diameter, precast concrete structure. It is connected to the sewage pump station with an upper overflow line and a lower drain line. A normally closed pinch valve in the emergency storage structure would be installed in the storage structure to manually drain and regulate the rate of return of the sewage stored in the emergency overflow structure to the wet well. The emergency storage structure is not included in the current scope of work, but it is shown so that all future connections to the wet well can be installed in the wet well at present to facilitate the future installation of the emergency overflow storage structure.
- The sanitary sewer between Sanitary Sewer MH SS-2 and the sewage pump station and all pump station site piping shall be ductile iron pipe as specified. The transition to the off-site PVC force main shall be accomplished using appropriate ductile iron fitting. M.J. Fernco couplings shall not be allowed at these piping transitions.
- The pump station site plan shown on this Sheet and Sheet 9 show separate emergency pump connection and surge relief valve vaults. An alternate detail for the surge relief valve vault using a manhole vault is shown on Sheet 13. The surge relief valve employed in these two (2) details is the globe valve style surge relief valve assembly. These two (2) functions, i.e. emergency pump connection and surge relief, can be enclosed in a single vault as shown in the detail entitled "Combined Surge Relief and Emergency Connection Vault Detail" as shown on Sheet 13. Note that the surge relief valve in the vault with the emergency pump connection shall be an angle body style surge relief.

If the single vault is used to enclose to the required pump station functions, then the pump station site plans would be revised accordingly by the elimination of the separate surge relief valve vault, the vault drain to the pump station wet well and the surge relief connection to the force main.

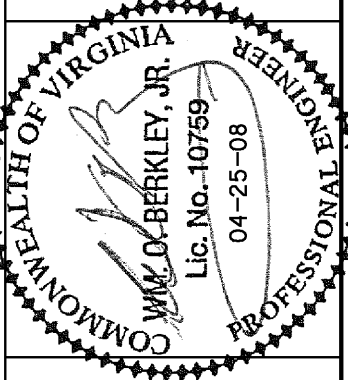
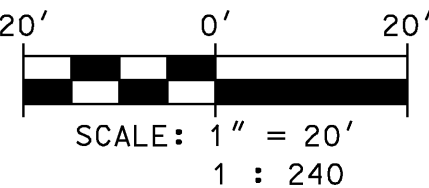
LIMITS OF CONSTRUCTION TYPICALLY CONTAINED WITHIN UTILITY EASEMENT.

- Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
- No more than 500 linear feet of trench may be opened at one time.
 - Excavated material shall be placed on the uphill side of trenches.
 - Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.
 - Restabilization shall be accomplished in accordance with these regulations.
 - Applicable safety regulations shall be complied with.

ALL EAS MEASURES SHALL BE PER THE LATEST EDITION OF THE VIRGINIA EAS HANDBOOK. THE CONTRACTOR IS RESPONSIBLE TO INSTALL ANY ADDITIONAL EAS MEASURES NECESSARY TO PREVENT AND CONTROL EROSION.



BASED ON THE FEMA - FLOOD INSURANCE RATE MAPS (PANEL 205 OF 525 FOR FRANKLIN COUNTY, VIRGINIA) THE SEWAGE PUMP STATION SITE DOES NOT LIE IN EITHER THE 25-YEAR OR THE 100-YEAR FLOOD ZONES.



NO.	DATE
1	03-04-08
2	03-31-08
3	04-14-08
4	04-25-08