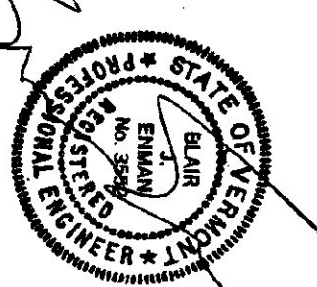


REVISIONS:  
 6/22/98 NOTES TO PEOPLE AND PUMP STATION  
 7/29/98  
 REVISION NOTES ON PUMP STATION

VERMONT  
 AGENCY OF TRANSPORTATION  
 HIGHWAY  
 MAINTENANCE  
 STORAGE  
 FACILITY

VT RTE 100 LUDLOW, VT  
 THESE PLANS ARE FOR THIS PROJECT ONLY AND ARE NOT FOR REUSE ON THIS PROJECT OR ANY OTHER PROJECT WITHOUT WRITTEN CONSENT OF ENMAN ENGINEERING, P.C.

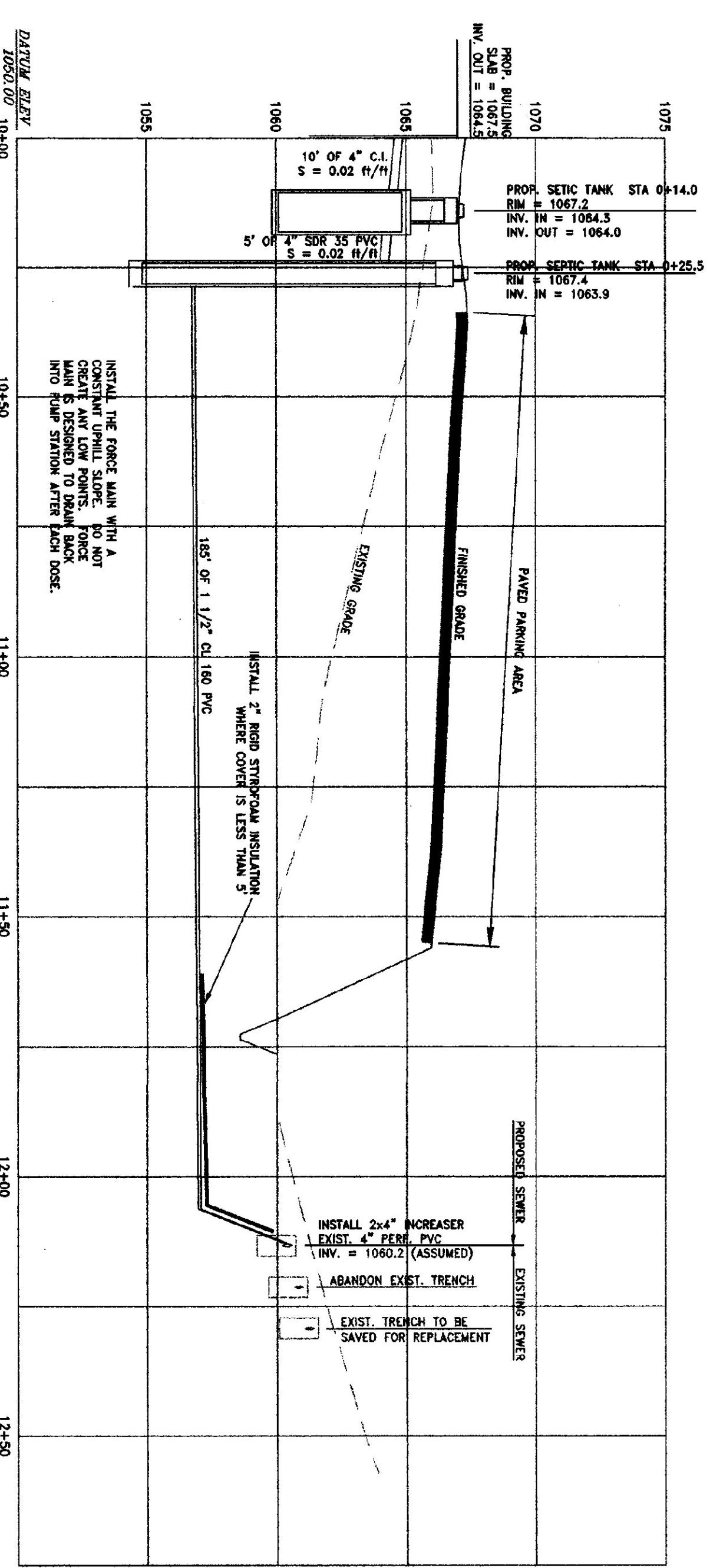
Enman  
 Engineering  
 Environmental & Civil & Sanitary  
 230 North Main Street  
 Rutland, Vermont 05701  
 (802)775-3437  
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REGULATORY APPROVAL STAMP

WATER  
 &  
 SEWER  
 DETAILS

SCALE: AS NOTED  
 DATE: 06/11/98  
 DESIGN BY: BJE  
 DRAWN BY: JBT  
 SHEET NO: WS-2  
 PROJECT NO: 9411



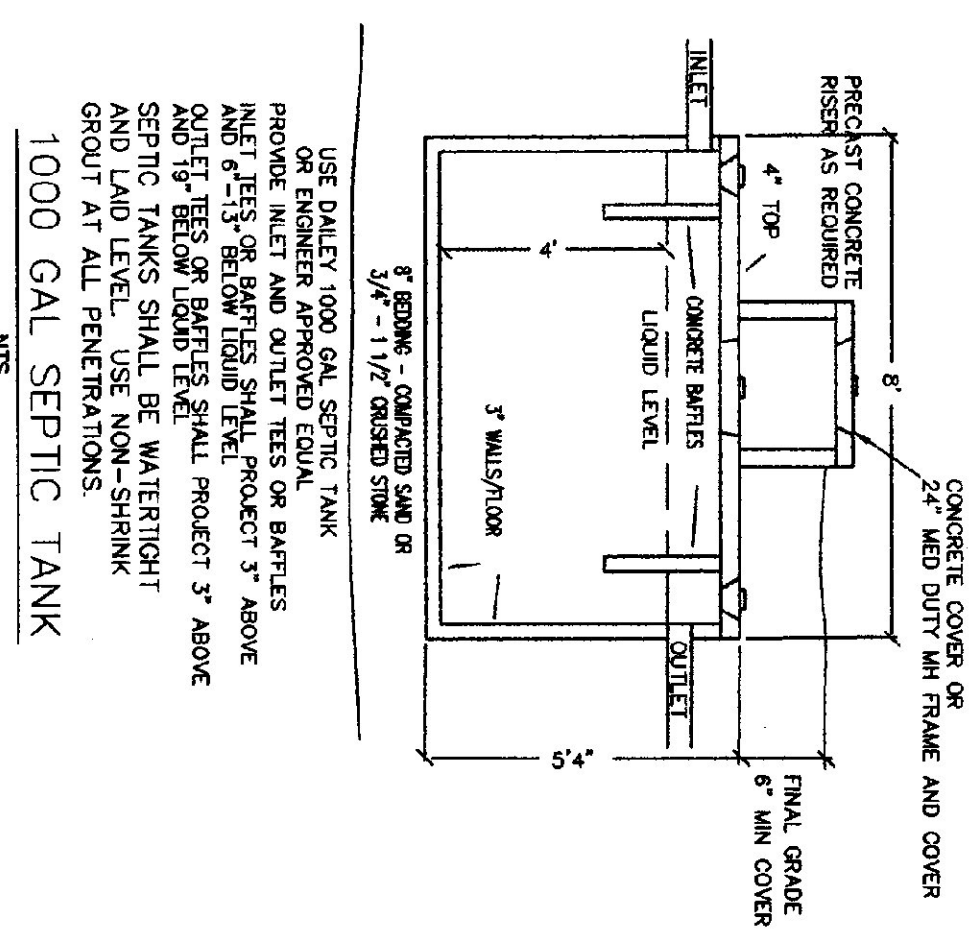
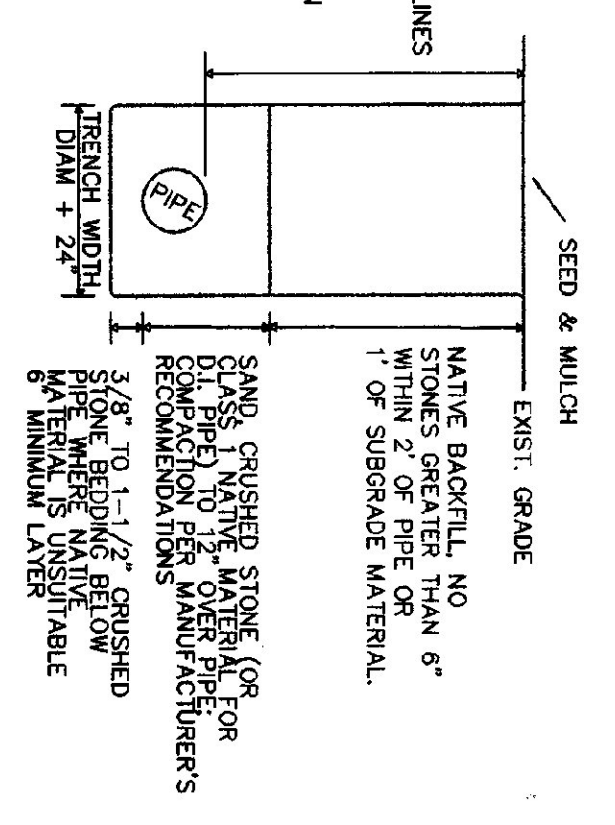
PROPOSED SEWER PROFILE  
 SCALE: HORIZ. 1" = 20'  
 VERT. 1" = 4'

BASIS OF DESIGN

AVERAGE DAILY FLOW 7 employees @ 15 gpd each = 105 gpd  
 better than 4 mm/inch (per MICHAELS ENGINEERING 6/3/91)  
 FIBC RATE 3/4" T = 3.1/2" = 1.5 gpd/5'  
 APPLICATION RATE 105 gpd / 1.5 gpd/5' = 70 sf REQUIRED  
 USE 1 TRENCH @ 4'x40' = 160 sf AVAILABLE  
 FIELD SIZING  
 HYDRAULICS  
 ELEVATION HEAD 1064.2 - 1053.8 = 4.4 ft  
 FRICTION HEAD 1 1/2" PVC FORCE MAIN 235' @ C=140  
 USE COLLUS. MODEL 3871 CAT. NO. EP94 4/10 HP PUMP  
 OPERATING POINT = 27.2 gpm @ 18.0' TDH  
 PUMP STATION LEVELS  
 ON/OFF 8" = 62.2 gallons  
 PUMP RUN TIME 62.7 gal / 24.2 gpm = 2.6 min  
 STORAGE VOLUME 42" = 329 gallons  
 DOSING  
 (62.7 gal/dose) - (17 gal draw boat) = 45.7 gal/dose  
 (105 gpd) / (45.7 gal/dose) = 2.1 doses/day

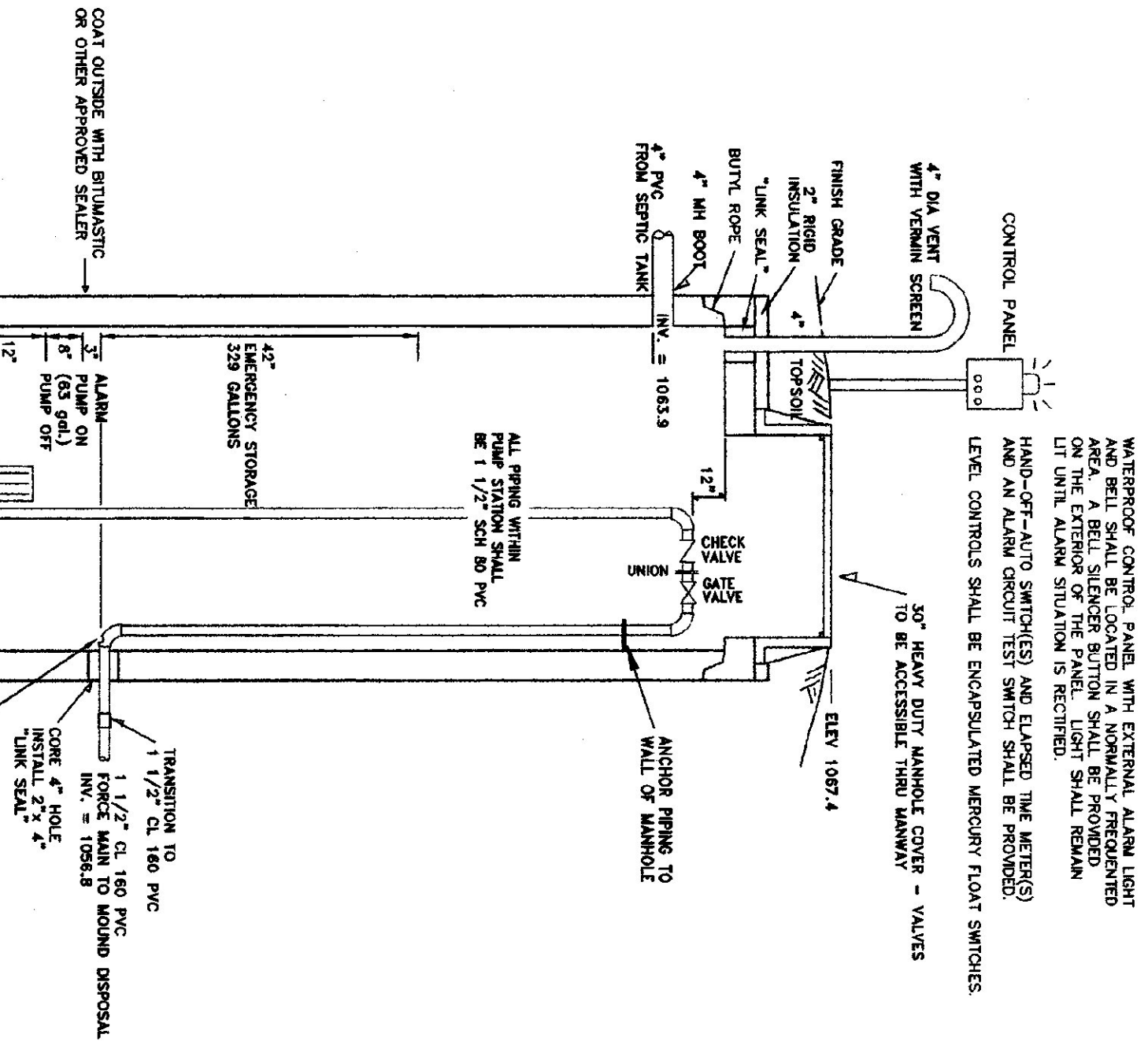
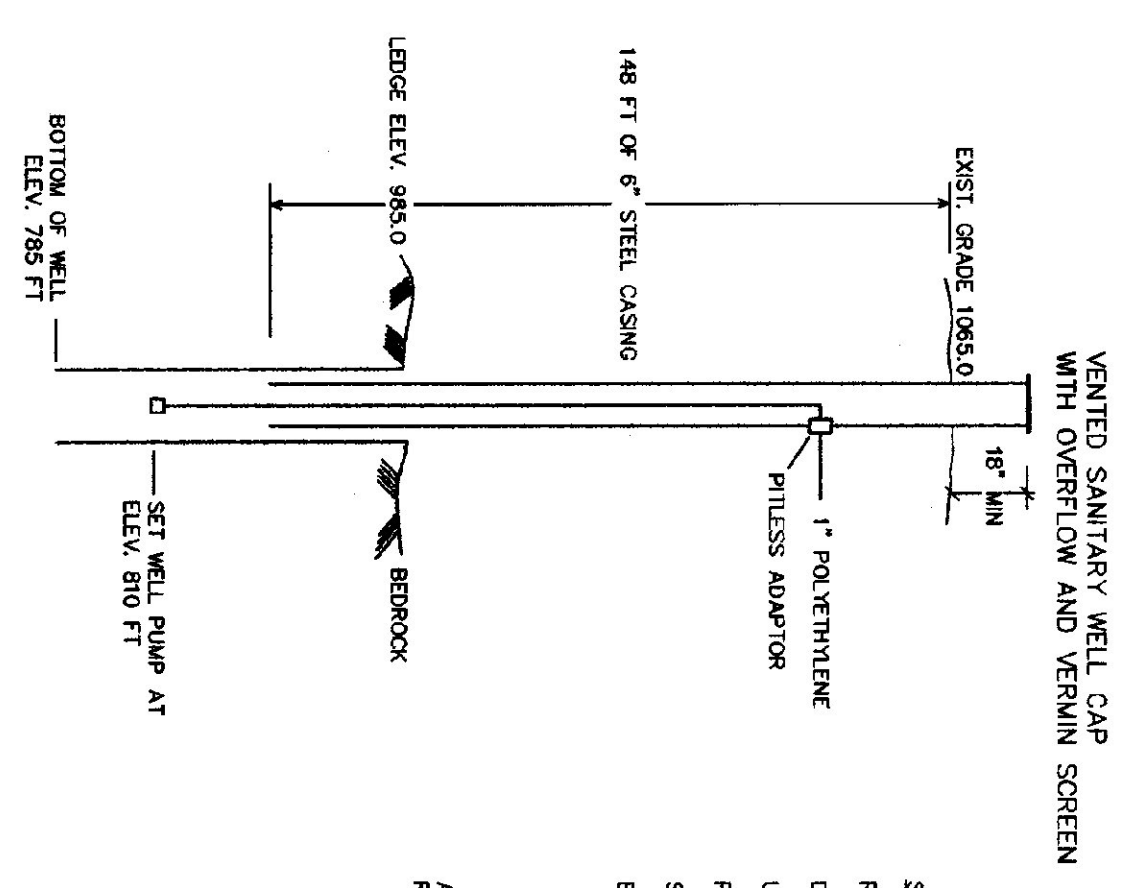
WATER & SEWER LINES  
 5" MIN COVER  
 EXCEPT 6" UNDER  
 TRAVELED AREAS  
 AND AS NOTED ON  
 PLANS

TYPICAL TRENCH DETAIL  
 NTS



MINIMUM WELL SEPARATION DISTANCES

WELL DETAIL  
 NOT TO SCALE



4'-0" ID PRECAST  
 PUMP STATION  
 NTS