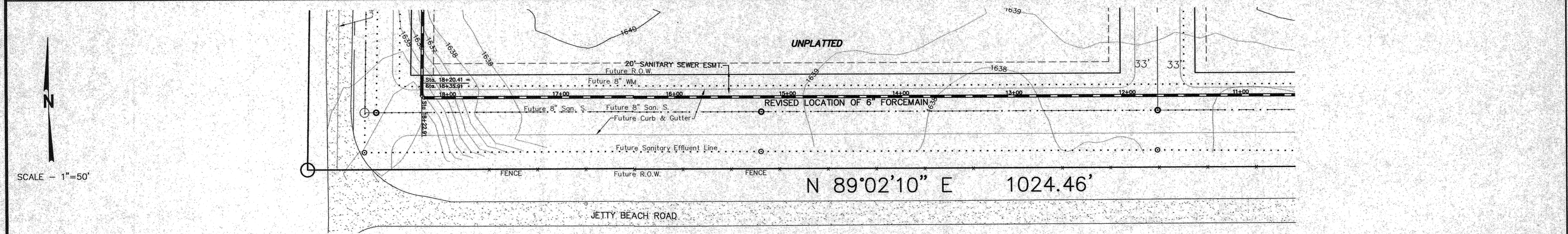
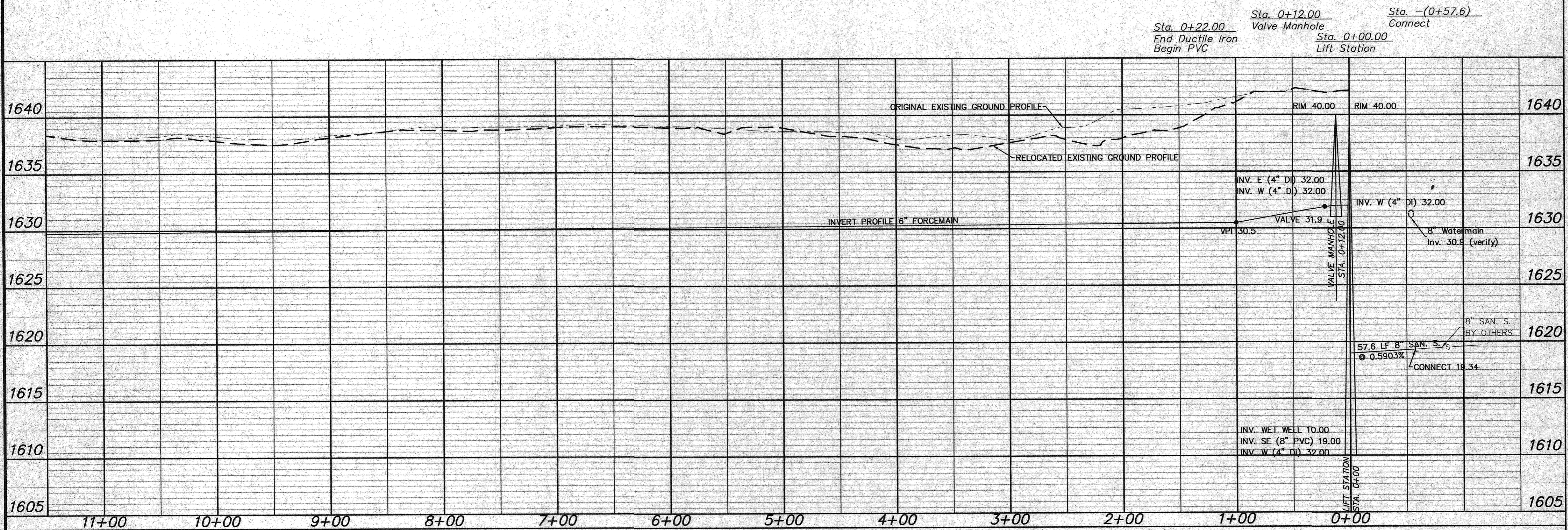


- CONSTRUCTION NOTES (THIS SHEET)**
- BACKFILL SHALL BE CLASS 'A' FOR AREAS WITHIN THE RIGHT OF WAY OF BAY SHORE BEND SE AND LAKEWOOD DRIVE SE. BACKFILL FOR ALL OTHER AREAS SHALL BE CLASS 'B'.
 - THE CONTRACTOR SHALL VERIFY THE ELEVATION OF THE GROUND WATER AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DEWATERING OR SOIL STABILIZATION (OTHER THAN USING SUBCUT GRAVEL) OF THE CONSTRUCTION SITE AS REQUIRED TO INSTALL THE PROPOSED UTILITIES.
 - PROTECT ALL SURVEY MONUMENTS. MONUMENTS DESTROYED OR DESTROYED SHALL BE REPLACED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
 - MAINTAIN A MINIMUM OF 7.5' OF COVER OVER THE TOP OF THE FORCEMAIN. FROM STA. 17+75 TO STA. 19+00 THE CONTRACTOR SHALL USE ADJACENT MATERIAL FROM THE SOUTH AND WEST OF THE FORCEMAIN TO INCREASE THE COVER OVER THE FORCEMAIN TO 7.5'. MAXIMUM SLOPE ON BACKFILL SHALL BE 3:1 AT THIS LOCATION. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR "6" FORCEMAIN".
 - THE EXISTING SOILS WILL BE ACCEPTABLE FOR BEDDING MATERIAL (PITRUN GRAVEL).
 - SEE SHEET C4 FOR LIFT STATION DETAILS AND SITE WORK DETAILS AND QUANTITIES.
 - THE CONSTRUCTION OF THE WATER AND SEWER WITHIN LAKEWOOD HARBOR 2ND MAY BE UNDER CONSTRUCTION AT THE SAME TIME THAT THIS PROJECT IS UNDER CONSTRUCTION. IF THE SEWER HAS BEEN CONSTRUCTED FROM THE MANHOLE TO BE PLACED IN THE INTERSECTION OF LAKEWOOD DRIVE SE AND BAYSHORE BEND SE TOWARDS THE LIFT STATION, REMOVE THE CAP AND CONNECT. IF NOT, CAP THE SEWER AT THE PLAN LOCATION.
 - THE CONTRACTOR SHALL SUPPORT AND PROTECT THE 8" WATERMAIN AT THE CROSSING WITH THE 8" GRAVITY SEWER AT STA. -(0+54.00). SAID WORK SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS.
 - THE CONTRACTOR SHALL HAVE THE 8" GRAVITY SEWER AND THE WET WELL MANHOLE CONSTRUCTED AND BACKFILLED BY OCTOBER 3, 2003 IN ORDER FOR THE PAVING CONTRACTOR TO CONSTRUCT CURB AND GUTTER AND PAVING FOR BAY SHORE BEND SE AND LAKEWOOD DRIVE SE. THE WET WELL COMPONENTS ARE NOT REQUIRED TO BE INSTALLED BY THIS DATE.



Sta. 0+22.00 End Ductile Iron Begin PVC

Sta. 0+12.00 Valve Manhole

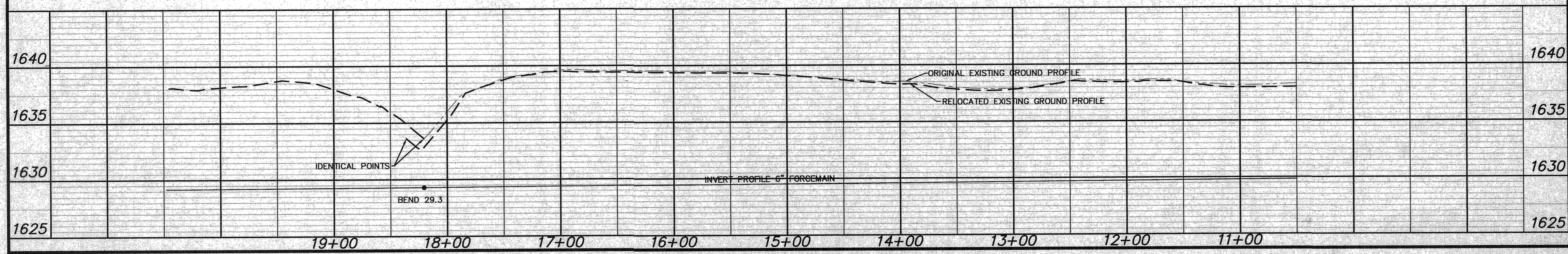
Sta. 0+00.00 Lift Station

Sta. -(0+57.6) Connect

Sta. 0+00.00 Lift Station

APPROXIMATE QUANTITIES

Construction Items	Quantity
6" PVC Forcemain	1,798 LF
8" Sanitary Sewer	58 LF
Subcut Gravel	100 TON
Lift Station Complete	1 LS
6" Gate Valve & Box	1 EA
Ductile Iron Fittings	Incidental



SWENSON, HAGEN & CO. P.C.
 PLANNING CIVIL ENGINEERING SURVEYING
 SITE DESIGN CONSTRUCTION MANAGEMENT
 909 BASIN AVE P.O. BOX 1195 (701) 223-2800
 BISMARCK, N.D. 58504 FAX (701) 223-2809
 E-mail: shcn@swensonhagen.com

FORCEMAIN
 FROM STA. -(0+57.6) TO STA. 18+20.41

SEWER IMPROVEMENT DISTRICT NO. 27
 PROJECT NO. 2003-09 SHEET NO. C1 OF 4
 MANDAN, ND JUNE 25, 2003

REVISED FORCEMAIN LOCATION 9/12/03

Record Drawing