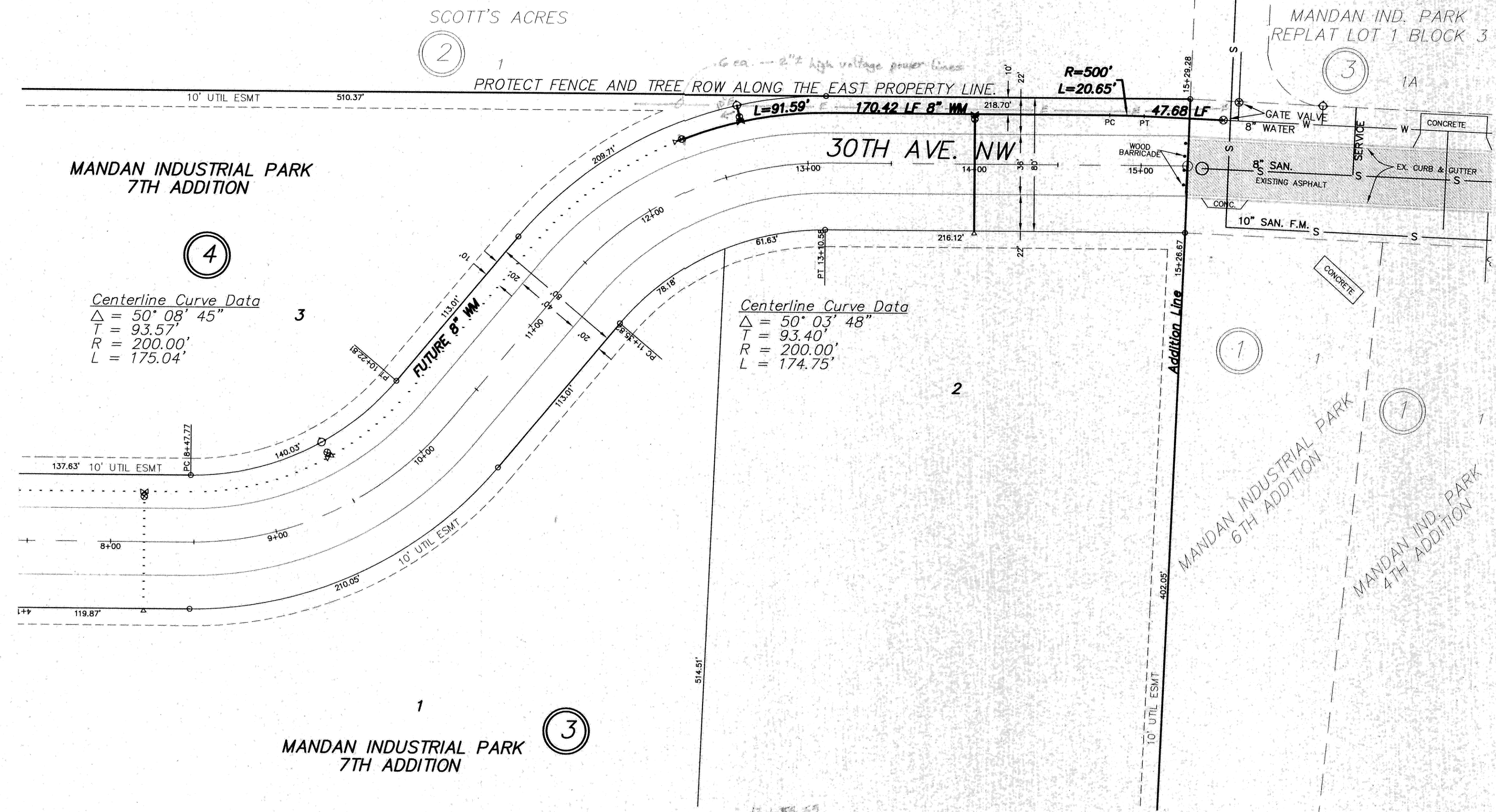
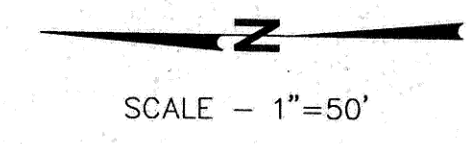


CONSTRUCTION NOTES (THIS SHEET)

1. BACKFILL SHALL BE CLASS 'A'.
2. GRADING SHALL BE BY OTHERS, PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF OFFSITE ANY EXISTING WATERMAIN STUBBED TO THE NORTH FROM THE EXISTING GATE VALVE AT STA. 15+49.30. SALVAGE THE EXISTING GATE VALVE AND BOX AND RESET AT STA. 12+33.54. THE CONTRACTOR SHALL MINIMIZE THE TIME THAT WATER WILL BE SHUT OFF TO THE SOUTH AND WILL TURN THE WATER BACK ON AS SOON AS POSSIBLE. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR "SALVAGE & RESET 8" GATE VALVE & BOX".
4. PROTECT ALL SURVEY MONUMENTS. MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.



Sta. 12+30.93
8" Plug

Sta. 12+33.54
Reset 8" Gate Valve & Box From Salvage

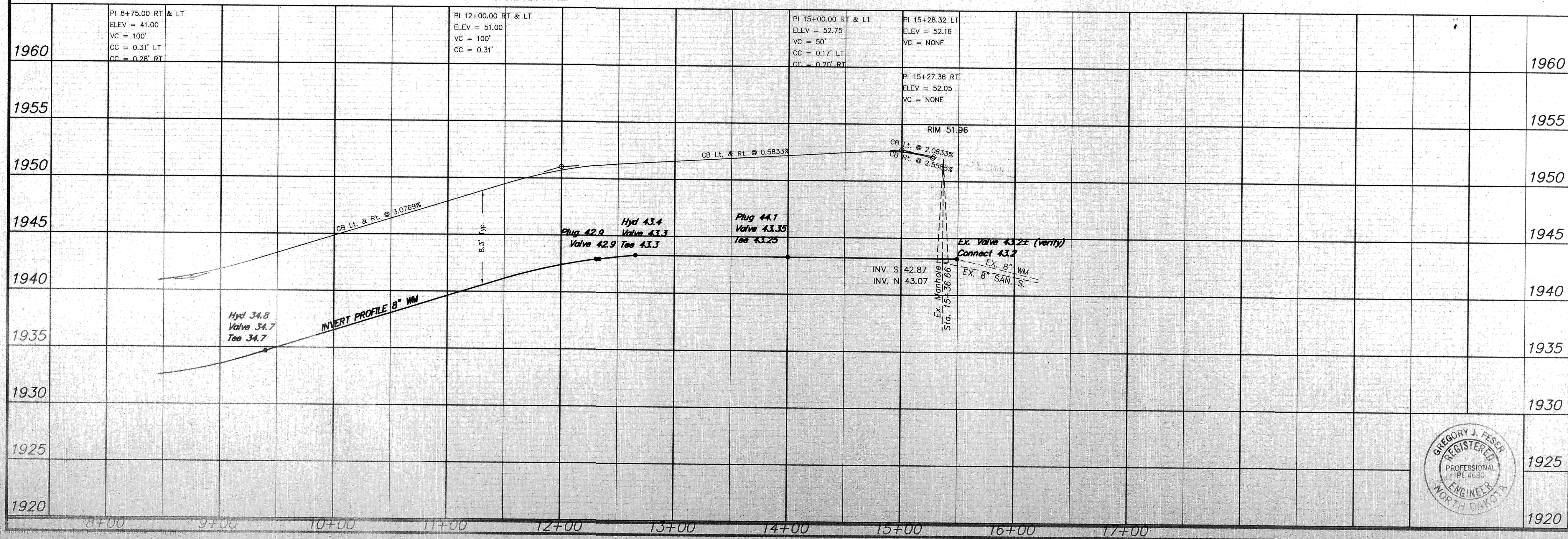
Sta. 12+65.55
8" x 8" Tee
3.00 LF 8" WM
8" Gate Valve & Box
7.00 LF 8" WM
8" Hydrant

Sta. 14+00.00
8" x 6" Tee
3.00 LF 6" WM
6" Gate Valve & Box
67.00 LF 6" WM
6" Plug

Sta. 15+49.30
Salvage 8" Gate Valve & Box
Install New 8" Gate Valve & Box

Begin Watermain Quantities Sta. 12+30.93

End Watermain Quantities Sta. 15+49.30



APPROXIMATE QUANTITIES

Watermain Items	Quantity
Pitrun Gravel	110 TON
Subcut Gravel	5 TON
Rock Excavation	(Incidental)
6" PVC Watermain	70 LF
8" PVC Watermain	340 LF
8" Hydrant	1 EA
6" Gate Valve & Box	1 EA
8" Gate Valve & Box	2 EA
Salvage & Reset 8" Gate Valve & Box	1 EA
Ductile Iron Fittings	(Incidental)

SWENSON, HAGEN & CO., P.C.
 PLANNING CIVIL ENGINEERING SURVEYING
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 508 BASIN AVE. P.O. BOX 1135 (701) 223-2800
 BISMARCK, N.D. 58504 FAX (701) 223-2608
 E-mail: sheng@swensonhagen.com



30TH AVENUE NW
 FROM STA. 12+30.93 TO STA. 15+49.30

WATER AND SEWER IMPROVEMENT PROJECT 2003-03
 SHEET NO. 2 OF 2
 MANDAN, ND DECEMBER 6, 2002