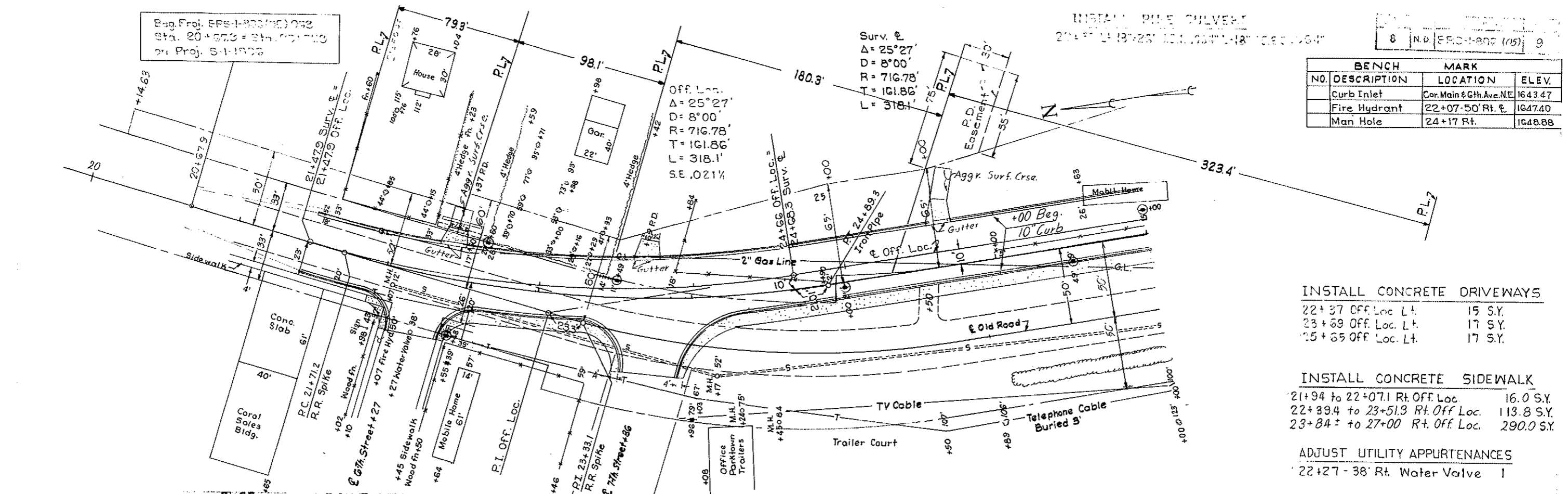


Eng. Proj. ERS-1-800(10) 092  
 Sta. 20+67.5 = Sta. 21+00  
 2nd Proj. S-1-1902

INITIAL PILE CULVERT  
 20+67.5-21+00 18" x 18" x 18" 1-18" x 18" x 18"

8 N.D. ERS-1-800 (10) 9

BENCH		MARK	
NO.	DESCRIPTION	LOCATION	ELEV.
	Curb Inlet	Cor. Main & 6th Ave. NE	1643.47
	Fire Hydrant	22+07.50' Rt. E	1647.40
	Man Hole	24+17 Rt.	1648.88



**INSTALL CONCRETE DRIVEWAYS**  
 22+37 Off. Loc. Lt. 15 S.Y.  
 23+69 Off. Loc. Lt. 17 S.Y.  
 25+65 Off. Loc. Lt. 17 S.Y.

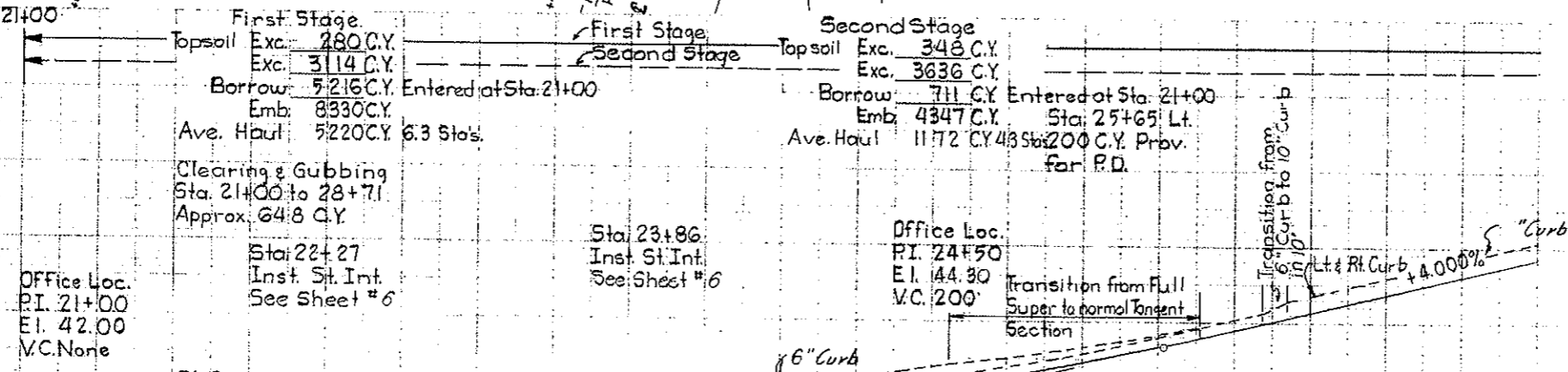
**INSTALL CONCRETE SIDEWALK**  
 21+94 to 22+07.1 Rt. Off. Loc. 16.0 S.Y.  
 22+39.4 to 23+51.3 Rt. Off. Loc. 113.8 S.Y.  
 23+84 to 27+00 Rt. Off. Loc. 290.0 S.Y.

**ADJUST UTILITY APPURTENANCES**  
 22+27 - 38' Rt. Water Valve 1

**ADJUST MANHOLE**  
 22+07 - 12' Rt. 1

**INSTALL SODDING**  
 21+47.9 Lt. to 22+31 Lt. Off. Loc. 23 S.Y.  
 22+43 Lt. to 23+63 Lt. Off. Loc. 33 S.Y.  
 23+75 Lt. to 25+59 Lt. Off. Loc. 51 S.Y.  
 25+71 Lt. to 27+00 Lt. Off. Loc. 36 S.Y.  
 21+47.9 Rt. to 22+03 Rt. Off. Loc. 20 S.Y.  
 22+43 Rt. to 23+46 Rt. Off. Loc. 42 S.Y.  
 23+83 Rt. to 27+00 Rt. Off. Loc. 96 S.Y.

**INSTALL CURB & GUTTER TYPE I**  
 21+47.9 Lt. to 27+00 Lt. Off. Loc. 552.1 L.F.  
 21+47.9 Rt. to 22+07.1 Rt. Off. Loc. 728 L.F. 1645  
 22+39.4-450 Rt. to 23+51.3-579 Rt. Off. Loc. 151.5 L.F.  
 23+84-68 Rt. to 27+00 Rt. Off. Loc. 345.2 L.F.



**First Stage**  
 Topsoil Exc. 280 C.Y.  
 Exc. 314 C.Y.  
 Borrow 7216 C.Y. Entered at Sta. 21+00  
 Emb. 8330 C.Y.  
 Ave. Haul 5220 C.Y. 6.3 Sta's.  
 Clearing & Gubbing  
 Sta. 21+00 to 28+71  
 Approx. 648 C.Y.

**Second Stage**  
 Topsoil Exc. 348 C.Y.  
 Exc. 3636 C.Y.  
 Borrow 711 C.Y. Entered at Sta. 21+00  
 Emb. 4347 C.Y. Sta. 25+65 Lt.  
 Ave. Haul 1172 C.Y. 43 Sta's 200 C.Y. Prov. for P.D.

Office Loc.  
 P.I. 21+00  
 El. 42.00  
 V.C. None

Sta. 22+27  
 Inst. St. Int.  
 See Sheet # 6

Sta. 23+86  
 Inst. St. Int.  
 See Sheet # 6

Office Loc.  
 P.I. 24+50  
 El. 44.90  
 V.C. 200'

Transition from Full  
 Super to normal Tangent  
 Section

Transition from  
 6" Curb to 10" Curb  
 Lt. & Rt. Curb +4.000% Curb

Curb  
 Grades  
 L. 43.06  
 R. 43.38  
 +47.9 -

L. 43.40  
 R. 44.12

L. 44.05  
 R.

L. 44.38  
 R. 45.16  
 +50 -

L. 44.92  
 R. 45.70

L. 46.31  
 R. 47.09  
 +66 -

L. 47.25  
 R. 47.76

L. 49.67  
 R. 49.67  
 +66 -

L. 50.64  
 R. 51.97  
 +90 -

L. 55.37  
 R. 55.37  
 +66 -

43.2  
 42.00

44.0  
 42.66

45.1  
 43.31

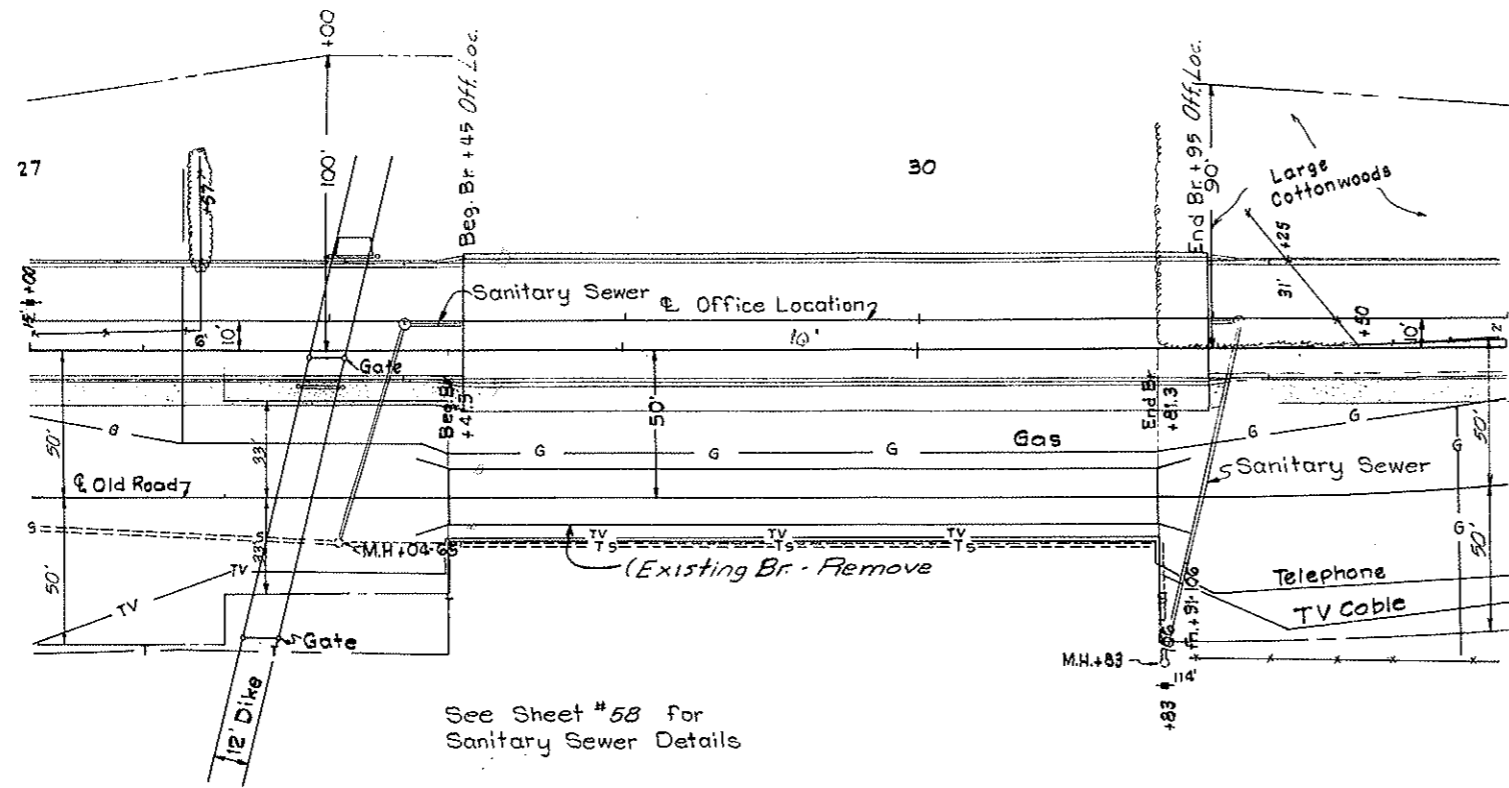
43.5  
 44.18

47.7  
 46.51

42.9  
 50.90

43.5  
 54.30

FHWA REGION	STATE	FED. AID PROJ. NO.	SHEET NO.
8	N.D.	BRS-1806(05)	10

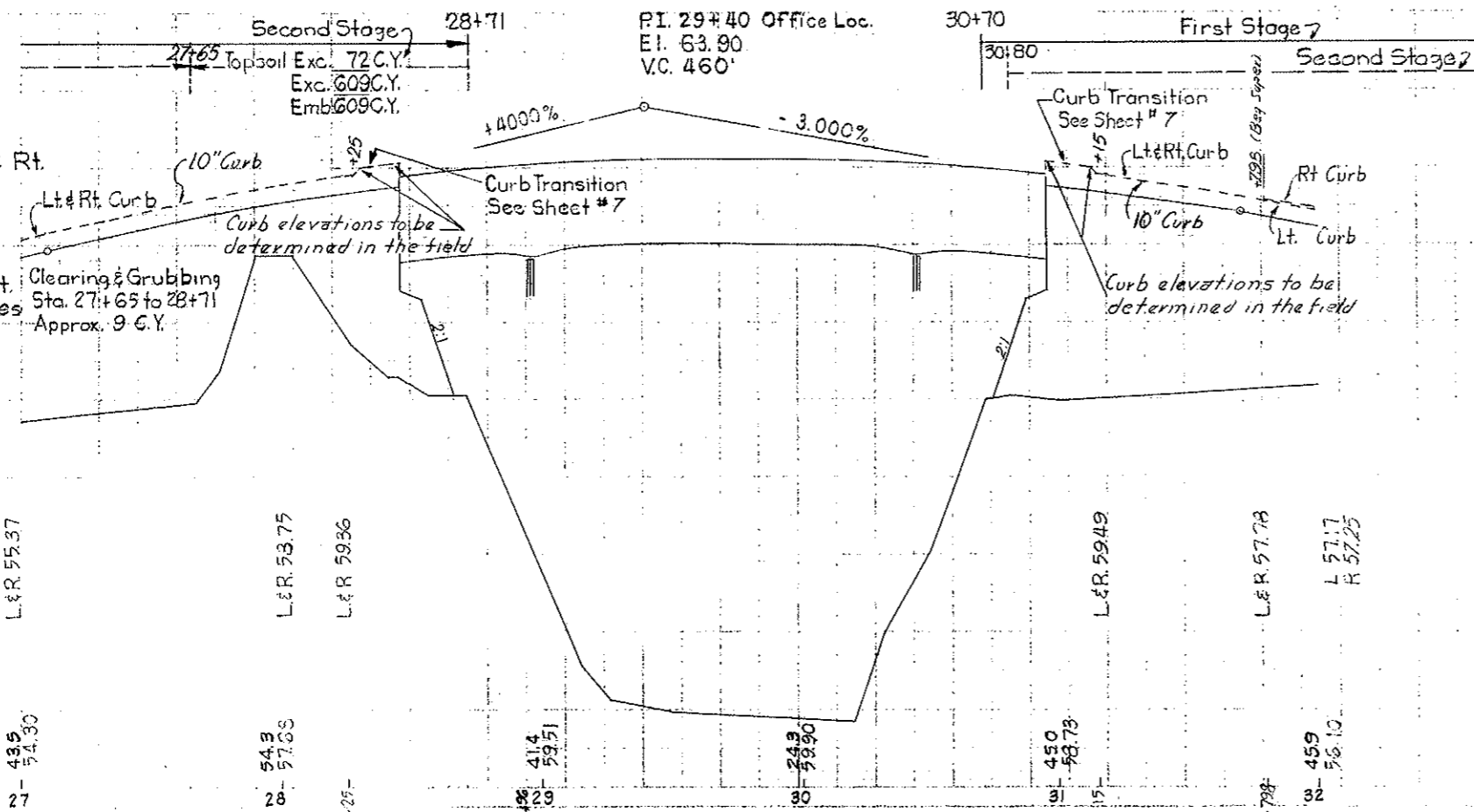


**INSTALL CURB & GUTTER TYPE - I**  
 27+00 Lt. to 28+45 Lt. Off. Loc. 145 L.F.  
 30+95 Lt. to 32+00 Lt. Off. Loc. 105 L.F.  
 27+00 Rt. to 28+45 Rt. Off. Loc. 145 L.F.  
 30+95 Rt. to 32+00 Rt. Off. Loc. 105 L.F.

**INSTALL CONCRETE SIDEWALK**  
 27+00 Rt. to 28+45 Rt. Off. Loc. 128.9 S.Y.  
 30+95 Rt. to 32+00 Rt. Off. Loc. 93.3 S.Y.

**INSTALL SODDING**  
 27+00 Lt. to 27+94 Lt. Off. Loc. 265 Y.  
 28+06 Lt. to 28+45 Lt. Off. Loc. 11 S.Y.  
 30+95 Lt. to 32+00 Lt. Off. Loc. 295 Y.  
 27+00 Rt. to 27+94 Rt. Off. Loc. 265 Y.  
 28+06 Rt. to 28+45 Rt. Off. Loc. 11 S.Y.  
 30+95 Rt. to 32+00 Rt. Off. Loc. 295 Y.

See Sheet #58 for Sanitary Sewer Details



First Stage	Second Stage
Topsoil Exc. 105 C.Y.	Topsoil Exc. 215 C.Y.
Exc. 1415 C.Y.	Exc. 1728 C.Y.
Borrow 6642 C.Y. Entered at Sta. 30+70	Emb. 1728 C.Y.
Emb. 8057 C.Y.	Ave Haul 1123 C.Y.
Ave. Haul 6821 C.Y. 1.2 Sta's.	1.9 Sta's.

Clearing & Grubbing  
 Sta. 30+70 to 37+50  
 Approx. 614 C.Y.

Sta. 28+00 ± Lt. & Rt.  
 Inst. Dike Drive  
 200 C.Y. Prov.  
 See Sheet #6

Sta. 28+00 ± Lt. & Rt.  
 Remove & Reset Gates  
 See Note #23

Clearing & Grubbing  
 Sta. 27+65 to 28+71  
 Approx. 9 C.Y.

P.I. 29+40 Office Loc.  
 E.I. 63.90  
 V.C. 460'

L & R 55.37

L & R 53.75  
 L & R 59.36

L & R 59.49

L & R 57.73  
 L 57.17  
 R 57.25

43.5  
 54.3  
 54.30

54.3  
 57.68

41.4  
 59.51

44.3  
 59.90

45.0  
 58.73

45.9  
 56.10

650  
 645  
 640  
 635  
 630  
 625