

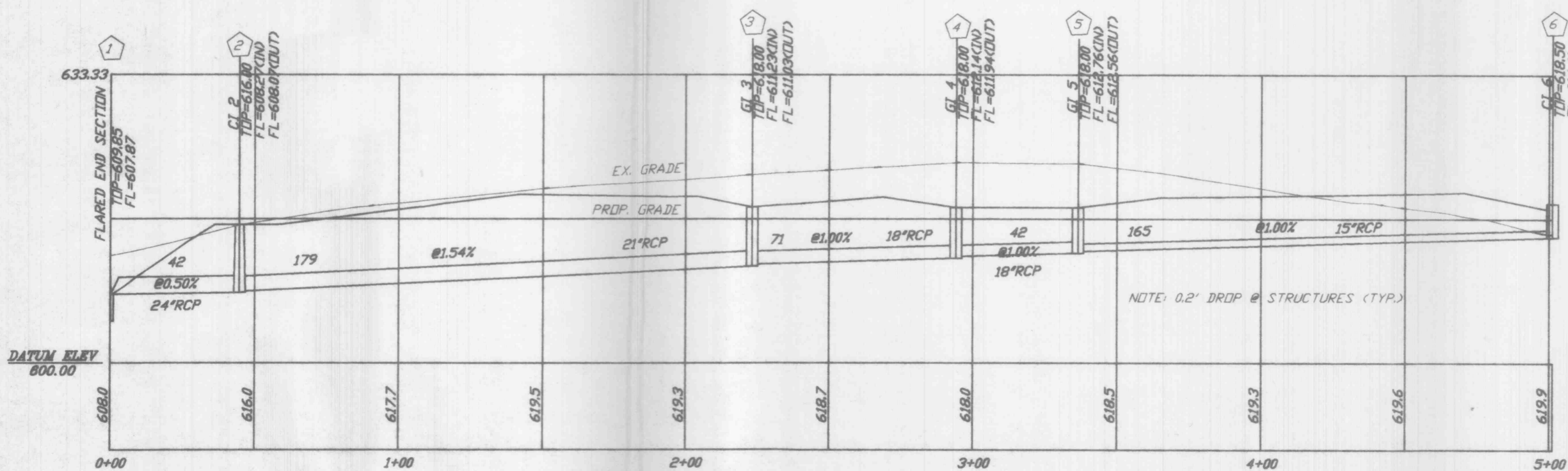
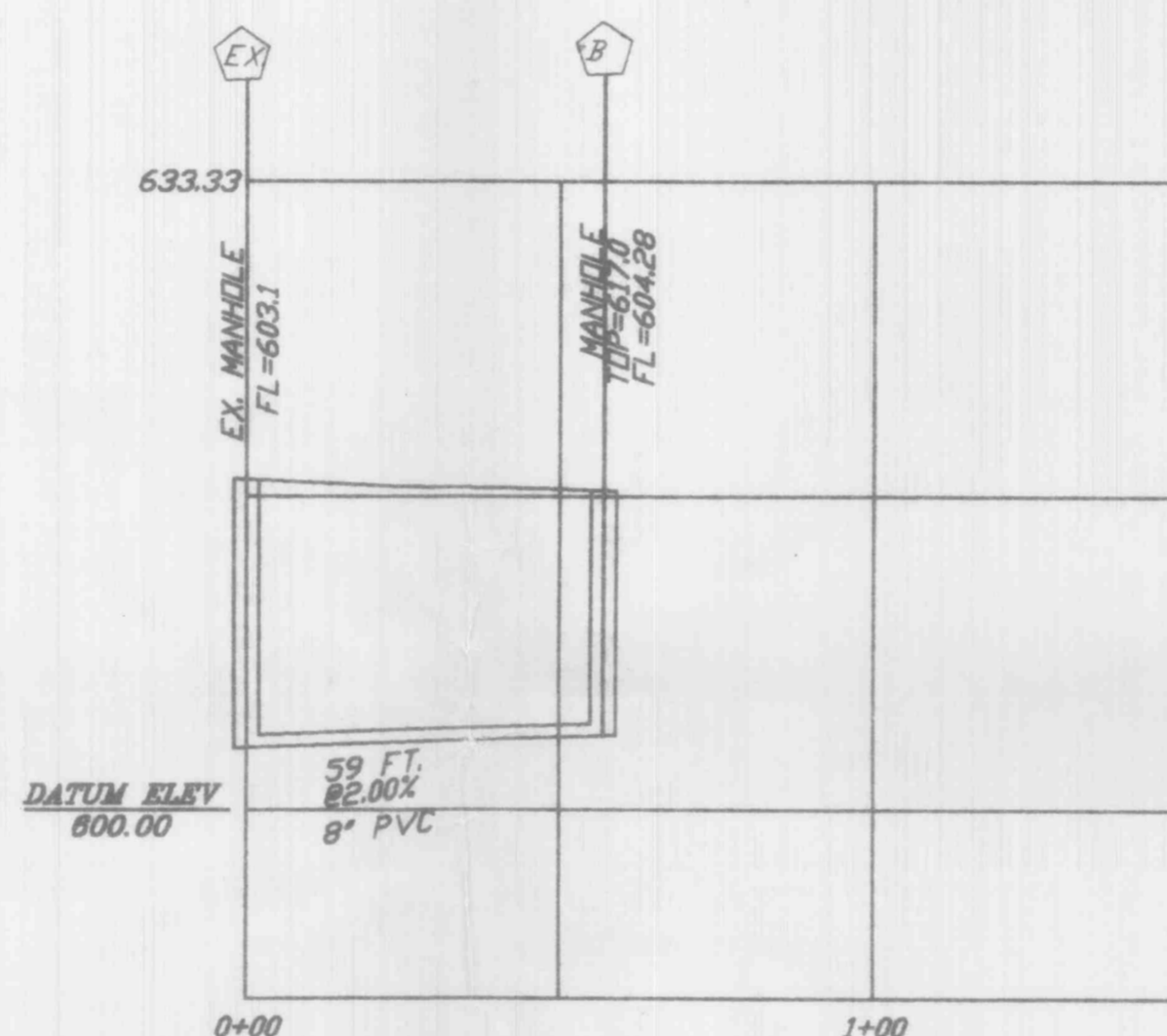
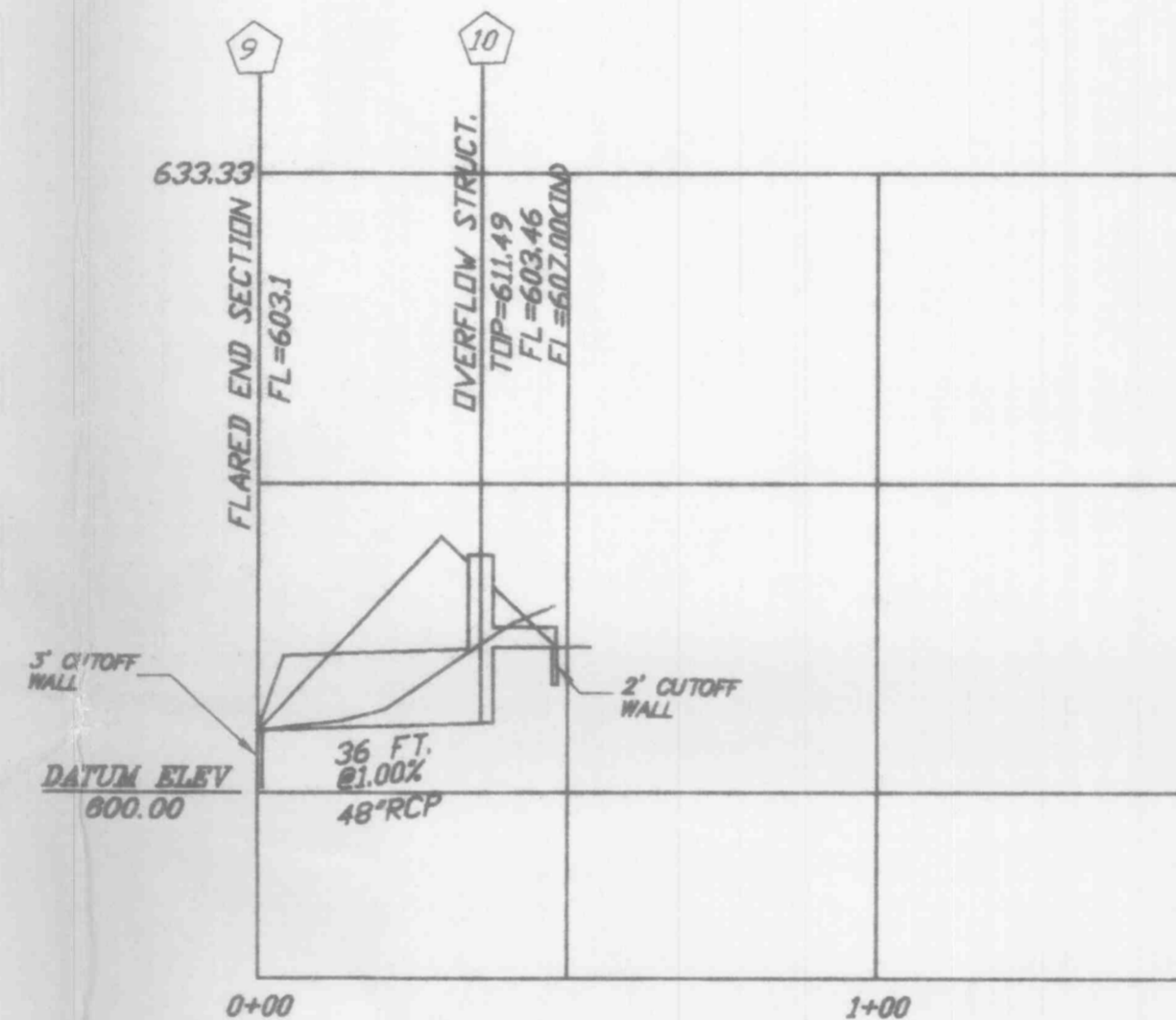
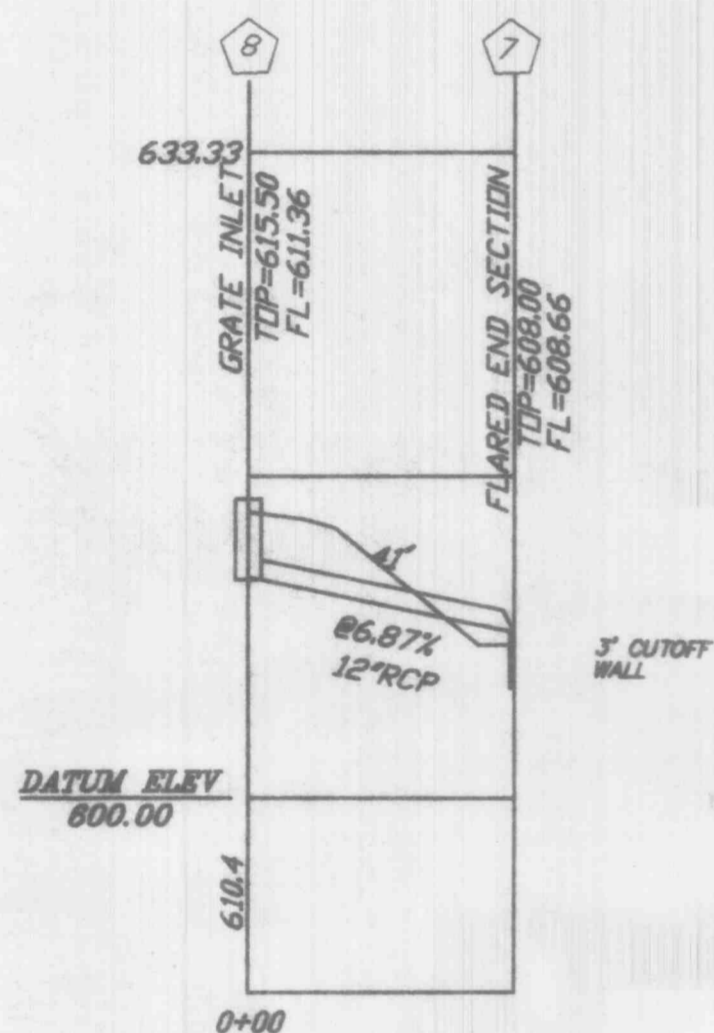
Ver 2.1
 Prepared Checked MEV
 Job No 96125
 Date 12/31/97
 Revised 12/31/97
 Sheet

HYDRAULIC DATA

Doering Engineering
 7321 South Lindbergh Suite 100
 Saint Louis, Missouri 63125

Note: _____
 Disc: _____

Struct. Number	Len. Upper Lower ft.	Area acre	P. I. c. f. s.	Q c. f. s.	Total Pipe Q Size	Const. Grade	V f. p. s.	Vh ft.	Q x Vh	Hyd. Grade n=0.013	Frict. Loss	Flow Line Top of Structure Elevation				Free Board Elevation		Junct. Loss Angle ft. (5 @)	Bend Loss Capacity ft. c. f. s.	Q/Cap. c. f. s.	Discharg. Velocity f. p. s.					
												Upper	Lower	Upper	Lower	Upper	Lower									
6	5	165	0.64	3.85	2.46	2.46	12	1.00%	3.13	0.15	0.37	0.48%	0.79	614.41	612.76	618.50	618.00	3.09	614.99	614.20	0.13	5	0.01	3.56	0.69	4.90
5	4	42	0.85	3.85	3.27	5.73	18	1.00%	3.24	0.16	0.94	0.30%	0.12	612.56	612.14	618.00	618.00	3.80	613.89	613.76	0.27	25	0.05	10.50	0.55	6.07
4	3	71	0.60	3.85	2.31	8.04	18	1.00%	4.55	0.32	2.58	0.59%	0.42	611.94	611.23	618.00	618.00	4.24	613.31	612.89	0.11	30	0.11	10.50	0.77	6.54
3	2	179	0.43	3.85	1.66	9.70	21	1.54%	4.03	0.25	2.45	0.37%	0.67	611.03	608.27	618.00	616.00	5.11	611.94	611.26	0.03	15	0.05	19.68	0.49	8.10
2	1	42	0.60	3.85	2.31	12.01	24	0.48%	3.82	0.23	2.73	0.28%	0.12	608.07	607.87	616.00	610.00	4.74	611.19	611.07	0.10	40	0.10	15.61	0.77	5.47
8	7	41	0.79	3.85	3.04	3.04	12	6.59%	3.87	0.23	0.71	0.73%	0.30	611.36	608.66	615.50	609.66	3.14	611.37	611.07				9.14	0.33	10.31
10	9	36			15.05	15.05	48	0.31%	1.20	0.02	0.34	0.01%	0.00	603.21	603.10	611.49	606.10	4.28	606.10	606.10				79.40	0.19	4.78



GENERAL NOTES:

GRADING AND DRAINAGE ARE PER CITY OF FALLON STANDARDS.

UTILITIES HAVE BEEN LOCATED FROM AVAILABLE RECORDS. THEIR LOCATIONS AS SHOWN ON THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES AND HAVE UTILITIES STAKED IN THE FIELD, PRIOR TO THE START OF ANY CONSTRUCTION.

THE GRADING CONTRACTOR SHALL HAVE SILTATION CONTROL IN PLACE PRIOR TO THE START OF GRADING.

THE GRADING CONTRACTOR SHALL MAINTAIN SILTATION CONTROL.

PIPES WITHIN THE PUBLIC R/W OR EASEMENTS SHALL BE REINFORCED CONCRETE PIPE ASTM C-76, CLASS III. PIPES NOT WITHIN PUBLIC R/W OR EASEMENTS SHALL BE REINFORCED CONCRETE PIPE ASTM C-14, FOR 18 INCHES AND SMALLER.

ALL MANHOLE FRAMES AND COVERS SHALL BE MSD 1992 STANDARD FRAME AND COVER.

ALL LATERAL SEWER CONSTRUCTION METHODS TO CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE GOVERNING PLUMBING CODE.



REVISIONS	
DATE	COMMENTS
7/23/97	PER CLIENT'S COMMENTS
8/10/97	PER CITY'S COMMENTS
12/17/97	PER CITY'S COMMENTS

MARSHALL FORD
STORM SEWERS

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 ST. LOUIS, MO. 63125
 OFFICE: (314) 487-6913
 FAX: (314) 487-2379

CIVIL ENGINEERING * PLANNING * SURVEYING
 DATE: 10/29/96 JOB NO. 96125 CADD: 96125CON
 DRAWN: MAD CHK: SHEET: 3