GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

STRUCTURE NUMBER	LINE		FLOWLINE ELEVATIONS			LENGTH	FLOWLINE GRADE (FT./FT.)	PIPE SIZE (IN.)	PIPE AREA (FT²)	PIPE CAPACITY (C.F.S.)	TRIBUTARY AREA (ACRES)	R.I. (CFS/AC.)	TRIBUTARY C.F.S.	C.F.S. (I.)BYPASS (+) ABSOR	TOTAL Q (C.F.S.)	HEADWALL DEPTH VELOCITY (FT/SEC)	VELOCITY HEAD (VH=V²/2g)	GVh (FT²/SEC)	HEAD LOSSES						HYDRAULIC ELEVATIONS						TOP OF STRUCT. ELEV.	FREE-BOARD (FT.)	REMARKS	
	UPPER STRUC	LOWER STRUC	UPPER INV	LOWER INV	DELTA														PIPE HF (FT.)	STRUCTURE (minor) LOSSES JUNCTION	Added GVh IN	TURN LOSS	TURN ANGLE	TOTAL hmt	UPPER H.E. FL + DIA	LOWER H.E. H.E.+hf	LOWER H.E.	HYD. GRADE (FT./FT.)	STRUCT. UPPER H.E.+hmt			N FACTOR	
EX 94	EX 94	EX 93	538.08	537.44	0.64	53	0.0121	36	7.07	59.65	0.75	3.85	2.89		25.95	3.66	0.21	5.37	0.12						541.08	540.56	540.44	0.0023	541.08	544.63	3.55	0.016	
GI 95	GI 95	EX 94	542.22	539.13	3.09	284	0.0109	30	4.91	34.76	0.21	3.85	0.81		23.06	4.68	0.34	7.80	1.35						544.72	542.43	541.08	0.0047	544.72	550.64	5.92	0.016	
EX 96	EX 96	GI 95	543.71	542.22	1.49	99	0.0150	27	3.98	28.68	0.23	3.85	0.87	21.38	22.25	5.57	0.48	10.67	0.77						545.96	545.49	544.72	0.0077	545.96	550.79	4.83	0.016	Estimated Upstream Q

PROJECT BENCH MARK

PROJECT BENCH MARK IS A USGS STANDARD TABLET STAMPED "F 149 1935" SET IN A 6" SQUARE CONCRETE MONUMENT 2.5" ABOVE THE GROUND, 46.5' NORTH OF THE CENTER OF THE MAIN TRACK OF THE NORFOLK & WESTERN RAILROAD, 9.3' EAST OF THE EAST EDGE OF THE CONCRETE SIDEWALK ALONG NORTH MAIN STREET IN O'FALLON MISSOURI. ELEVATION 542.80.

Missouri One Call System, Inc.
Call Before You Dig!
1-800-DIG-RITE
(1-800-344-7483)

All the improvements & facilities and utilities, above ground and underground shown hereon were plotted from available information and do not necessarily reflect the actual existence, nonexistence, elevation, size, type, number or location of these or other improvements, facilities, or utilities.
The General Contractor and/or owner shall be responsible for verifying the actual location & elevation of all improvements, facilities, & utilities, shown or not shown, and said improvements, facilities, & utilities shall be located in the field prior to any grading, excavation or construction of any improvements. These provisions shall in no way absolve any part from complying with the Underground Facility Safety & Damage Prevention Act, Chapter 319, RSMo.

CALL MISSOURI ONE-CALL, 1-800-DIG-RITE.

STATE OF MISSOURI
JOHN M. ZAVRADINOS
NUMBER 2005013509
PROFESSIONAL ENGINEER

The Professional Engineer's and/or Professional Land Surveyor's responsibility is limited to plans and other documents displaying his/her signature and seal. Engineer and Surveyor assumes no responsibility for:
- Unauthorized use of plans and other documents prior to receipt of all review agency approvals
- All unauthorized changes to and uses of this sheet
- This sheet whenever a revised sheet is issued
- Individual use of any sheet that is part of a set of plans

This applies to all plans and other documents associated with this project, whether this statement appears on them or not.

No.	Date	Revision/Issue
1	08-07-06	Per City Comment Letter, dated 07/24/06
2	08-11-06	Client/City Revisions
3	08-29-06	Per City Comment Letter, dated 08/23/06

O'Fallon Station Infrastructure Phase 2
Grading Plan, DA Map

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636-498-7700
636-498-7710 Fax
Attn: Will Holman
wholman@cbgrealestate.com

City/County Job No:
P & Z No. 2204.03
MSD P-
BASEMAP

Proj Manager
R. Wischmann
rich@zavradinos.com

CAD Filename
04126-infrastructure Phz 2.dwg

Original Issue Date
06/13/06

Project No.
04126-D

Sheet
3

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