

TRAPEZOIDAL CHANNEL ANALYSIS  
NORMAL DEPTH COMPUTATION

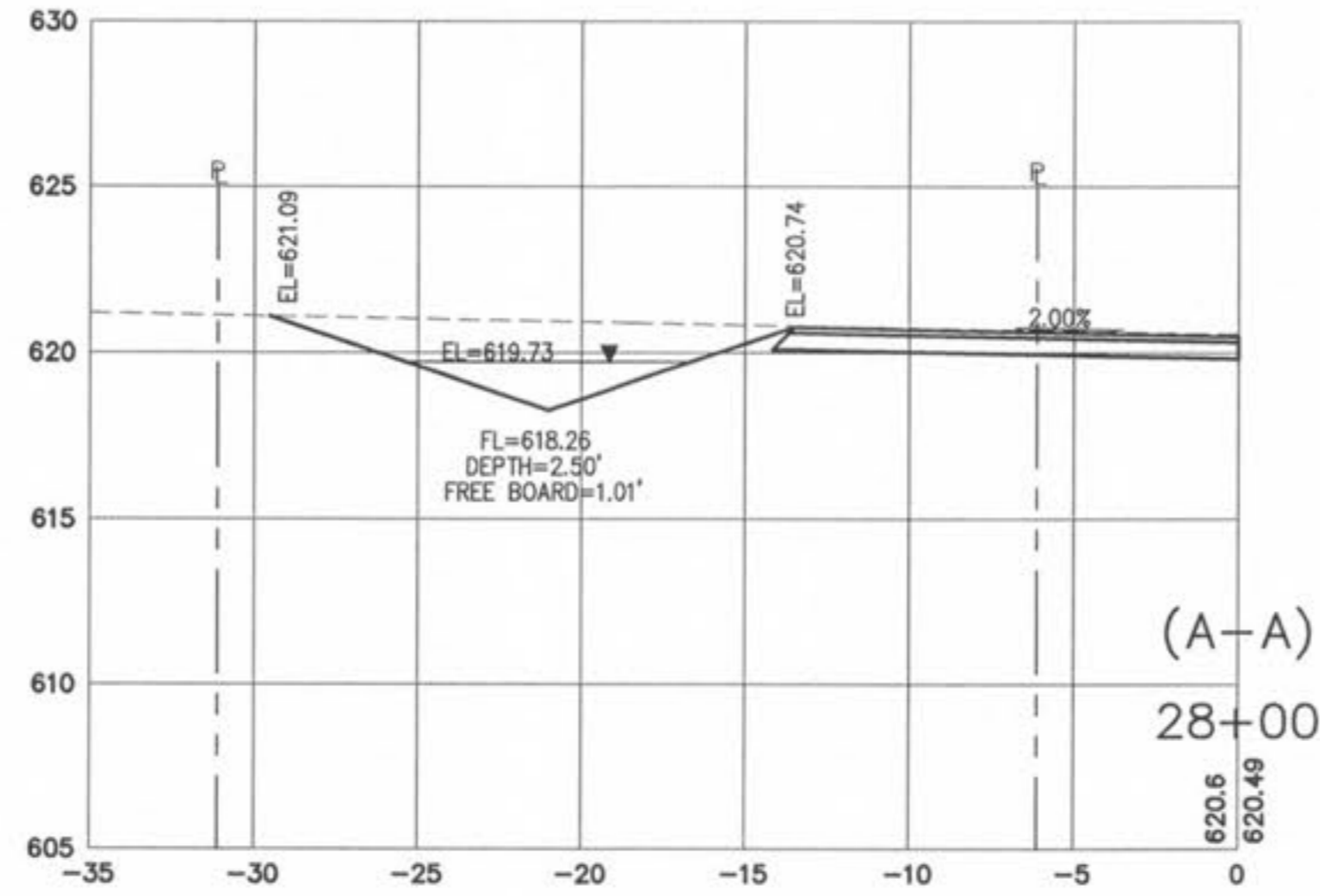
NOVEMBER 15, 2006

PROGRAM INPUT DATA	
DESCRIPTION	VALUE
Flow Rate (cfs)	35.38
Channel Bottom Slope (ft/ft)	0.02
Manning's Roughness Coefficient (n-value)	0.033
Channel Left Side Slope (horizontal/vertical)	3.0
Channel Right Side Slope (horizontal/vertical)	3.0
Channel Bottom Width (ft)	0.01

COMPUTATION RESULTS	
DESCRIPTION	VALUE
Normal Depth (ft)	1.47
Flow Velocity (fps)	5.00
Froude Number	1.027
Velocity Head (ft)	0.39
Energy Head (ft)	1.86
Cross-Sectional Area of Flow (sq ft)	6.48
Top Width of Flow (ft)	8.82

HYDROCALC Hydraulics for Windows, Version 1.2a Copyright (c) 1996  
Dodson & Associates, Inc., 5629 FM 1960 West, Suite 314, Houston, TX 77069  
Phone: (281)440-3787, Fax: (281)440-4742, Email: software@dodson-hydro.com  
All Rights Reserved.

SECTION A-A  
(LEFT DITCH)



TRAPEZOIDAL CHANNEL ANALYSIS  
NORMAL DEPTH COMPUTATION

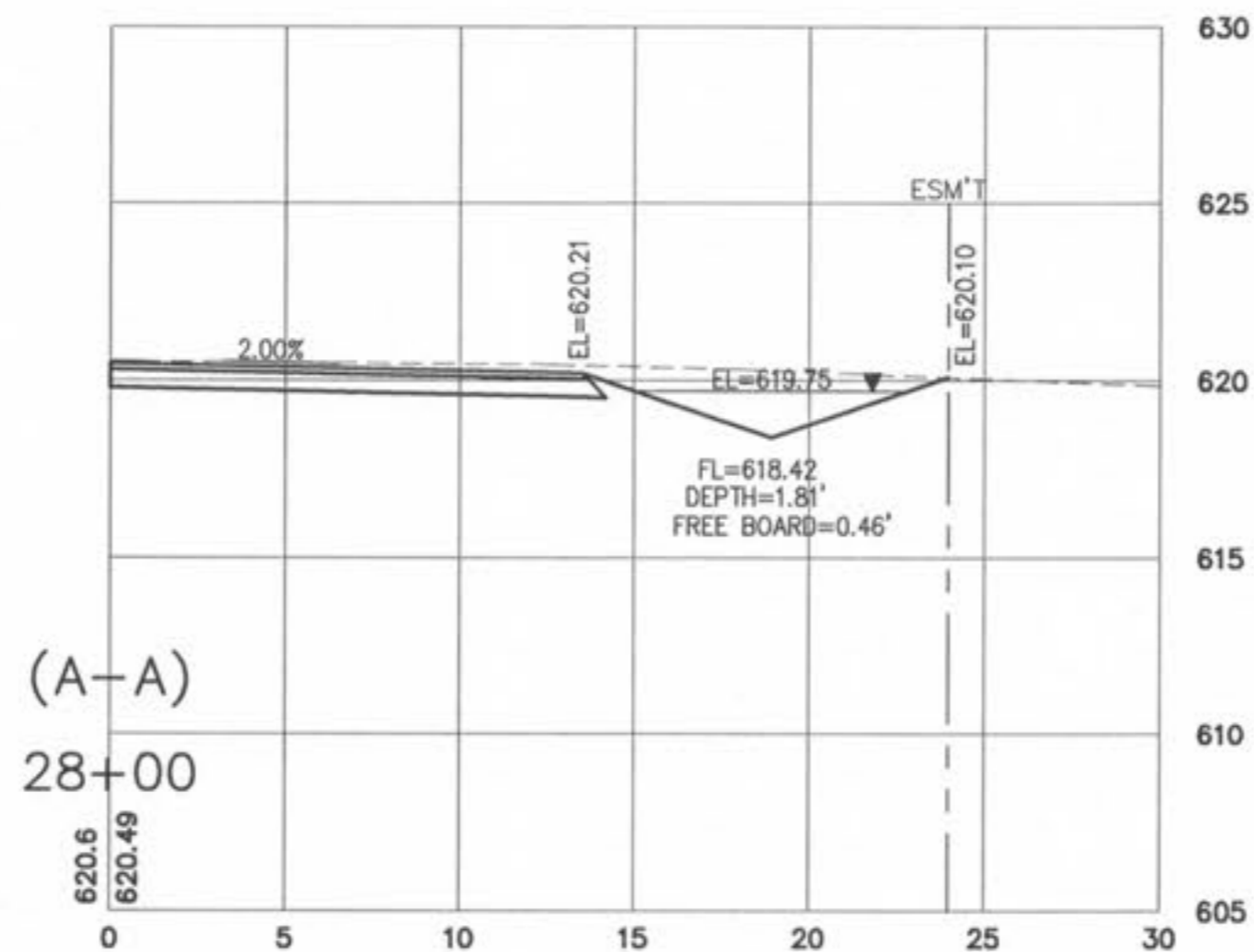
NOVEMBER 15, 2006

PROGRAM INPUT DATA	
DESCRIPTION	VALUE
Flow Rate (cfs)	24.92
Channel Bottom Slope (ft/ft)	0.02
Manning's Roughness Coefficient (n-value)	0.033
Channel Left Side Slope (horizontal/vertical)	3.0
Channel Right Side Slope (horizontal/vertical)	3.0
Channel Bottom Width (ft)	0.01

COMPUTATION RESULTS	
DESCRIPTION	VALUE
Normal Depth (ft)	1.33
Flow Velocity (fps)	4.68
Froude Number	1.011
Velocity Head (ft)	0.34
Energy Head (ft)	1.67
Cross-Sectional Area of Flow (sq ft)	5.32
Top Width of Flow (ft)	7.99

HYDROCALC Hydraulics for Windows, Version 1.2a Copyright (c) 1996  
Dodson & Associates, Inc., 5629 FM 1960 West, Suite 314, Houston, TX 77069  
Phone: (281)440-3787, Fax: (281)440-4742, Email: software@dodson-hydro.com  
All Rights Reserved.

SECTION A-A  
(RIGHT DITCH)



REVISIONS	
DATE	DESCRIPTION
9/5/06	CITY OF FALLON COMMENTS
9/19/06	CITY OF FALLON COMMENTS
11/19/06	CITY OF FALLON COMMENTS

DEVELOPER/OWNER:  
THE JONES COMPANY HOMES, L.L.C.  
16640 CHESTERFIELD GROVE, SUITE 160  
CHESTERFIELD, MO 63005  
PHONE: (636) 537-7192

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE AND DISCLAIMS ANY LIABILITY FOR ANY OTHER INFORMATION CONTAINED HEREIN. SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OF INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTERFERED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE RELATES.



PRESTON WOODS LANE  
IMPROVEMENT PLANS  
O'FALLON, MO. 63366  
DITCH CHECKS

planning • engineering • surveying • landscape architecture  
**Cole**  
and ASSOCIATES  
INCORPORATED  
10777 sunset office dr. suite 10  
saint louis, missouri 63127  
p: 314 984 9887 f: 314 984 0587

DESIGNED BY  
JW  
DRAWN BY  
KK  
CHECKED BY  
JFH  
DATE  
11/20/06  
Job Number  
05-340  
Sheet Number  
C2.2

USER: eboyd TAB: C2.1 DITCH CHECKS  
DATE: Nov 17, 2006 - 4:47pm  
DRAWING: S:\JG\05\Jobs\2005\05-340\LD5\_05-340.dwg  
Preston Woods Lane\_11-15-06\_Current\0\_JPL\LD5\_05-340.dwg