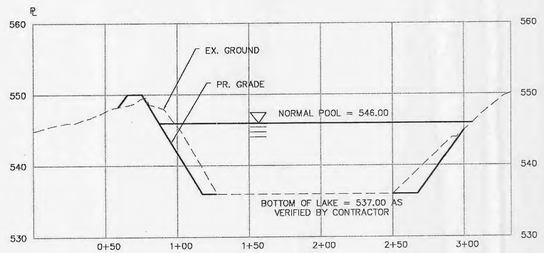
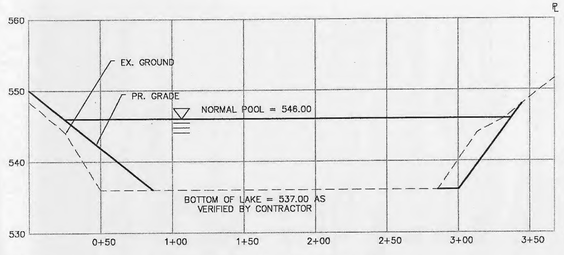
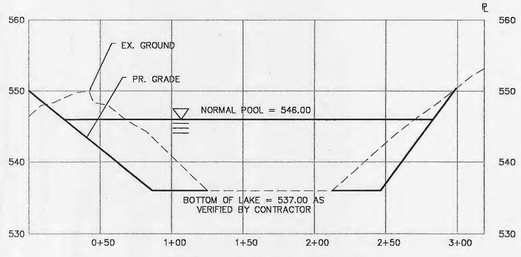


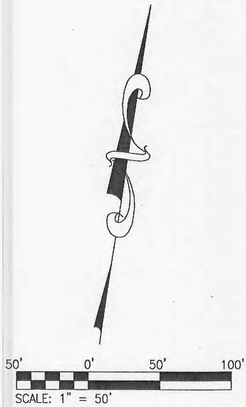
DETENTION SECTION A



DETENTION SECTION B



DETENTION SECTION C



04/14/05 ⚠ DUCKETT CREEK COMMENTS
04/12/05 ⚠ REV SAN. AND STORM

REVISIONS

DESC.	DATE
⚠ MO.EAGLE TBK.2	9/28/04
⚠ COLE AND ASSOCIATES	12/2/04
⚠ DUCKETT CREEK COMMENTS	12/29/04
⚠ CITY OF O'FALLON COMMENTS	1/3/05
⚠ COLE - INTERNAL COORDINATION	1/26/05
⚠ CITY OF O'FALLON COMMENTS	1/27/05
⚠ COLE - INTERNAL COORDINATION	2/14/05
⚠ CITY OF O'FALLON COMMENTS	2/16/05
⚠ DUCKETT CREEK COMMENTS	3/4/05
⚠ DUCKETT CREEK COMMENTS	3/7/05

DEVELOPER/OWNER:
WINGHAVEN LAND INVESTORS, L.L.C.
C/O MC EAGLE DEVELOPMENT COMPANY
1001 BOARDWALK SPRINGS PLACE
O'FALLON, MO 63366
(636) 561-9300

THE PROFESSIONAL WORK, SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS RESPONSIBILITY FOR ALL OTHER WORK, PLANS, DRAWINGS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THIS PROFESSIONAL. ALL REFERENCES TO THIS PLAN SHALL BE CONSTRUED TO REFER ONLY TO THE PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS. DO NOT SCALE PLAN.

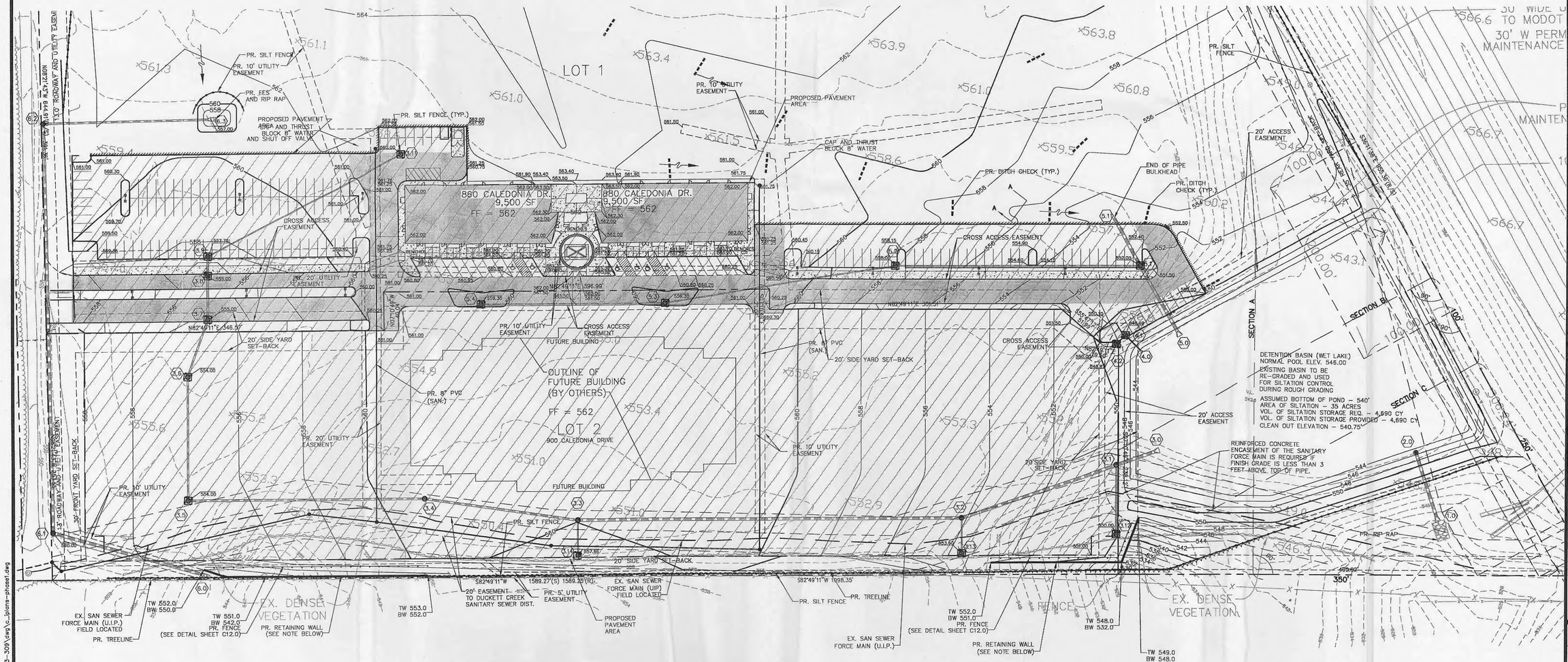
STATE OF MISSOURI
JAMES T. ROTH
NUMBER E-2000150055
REGISTERED PROFESSIONAL ENGINEER
SEAL
5/16

CALEDONIA
HIGHWAY 40/61 AND WINGHAVEN
O'FALLON, MO 63366

DETAILED GRADING/STORM PLAN

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	PMH
DRAWN BY	PMH
CHECKED BY	KER/JTR
DATE	11/5/04
Job Number	03-309
Sheet Number	C5.0



NOTES:
1. GRADES WITHIN HATCH AREA ARE SHOWN AS FINISHED ELEVATION. CONTRACTOR SHOULD ADJUST TO SUB-BASE.
2. ROOF DRAINS WILL DIRECT WATER TO SHEET FLOW INTO STORM SYSTEM.

RETAINING WALL NOTES:
A. ALL CONSTRUCTION SHALL BE PER THE MANUFACTURERS RECOMMENDATION.
B. SHOP DRAWINGS BEARING THE SEAL OF A REGISTERED ENGINEER IN THE STATE OF MISSOURI TO BE SUPPLIED TO THIS ENGINEER FOR APPROVAL.
C. TW= TOP OF RETAINING WALL, BW= GRADE AT BASE OF WALL.

SECTION A-A

Q = 19.9 CFS
Slope= 3%
n = .03
A = 39.6 SF
R = 0.44 FT
$R^{2/3}$ = 0.58
$S^{1/2}$ = 0.17
W.P. = 89.0 FT
V = 2.81 FPS

P&Z #5504

DATE: Apr 20, 2005 - 11:00am
DRAWING:s:\Jobs\Jobs2003\03-309\03_03-309\dwg\c_plans-phase1.dwg