

SANITARY PROFILE

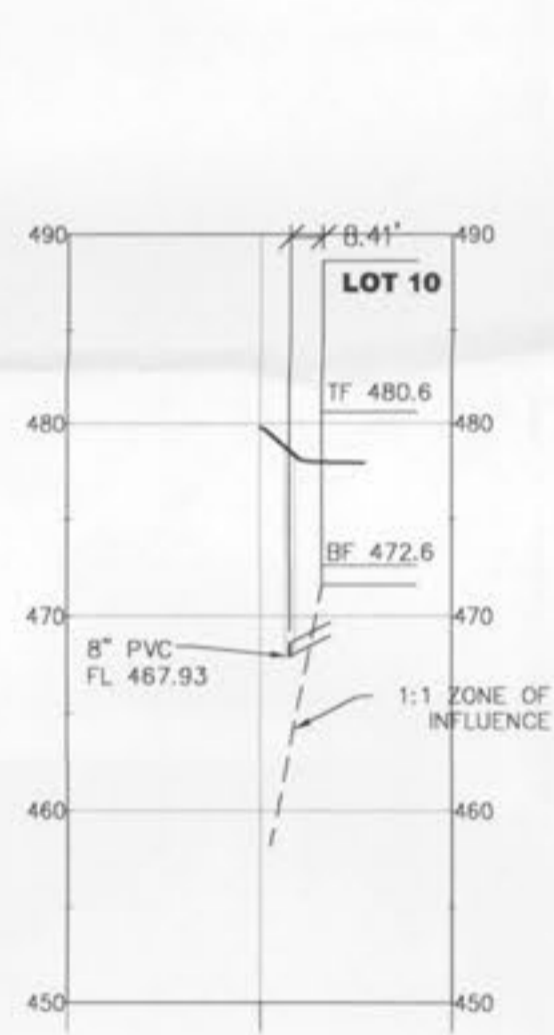
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=10'

SANITARY PROFILE

SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=10'

NOTE: ALL STRUCTURES ARE TO REQUIRE A 1" DROP CAST BOTTOM

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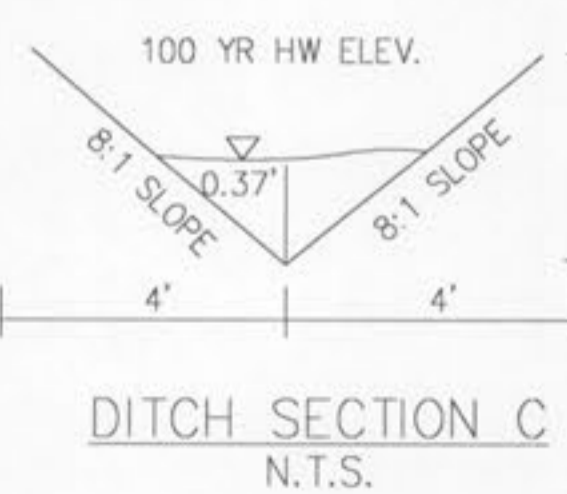
SECTION A-A

SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=10'



SECTION B-B

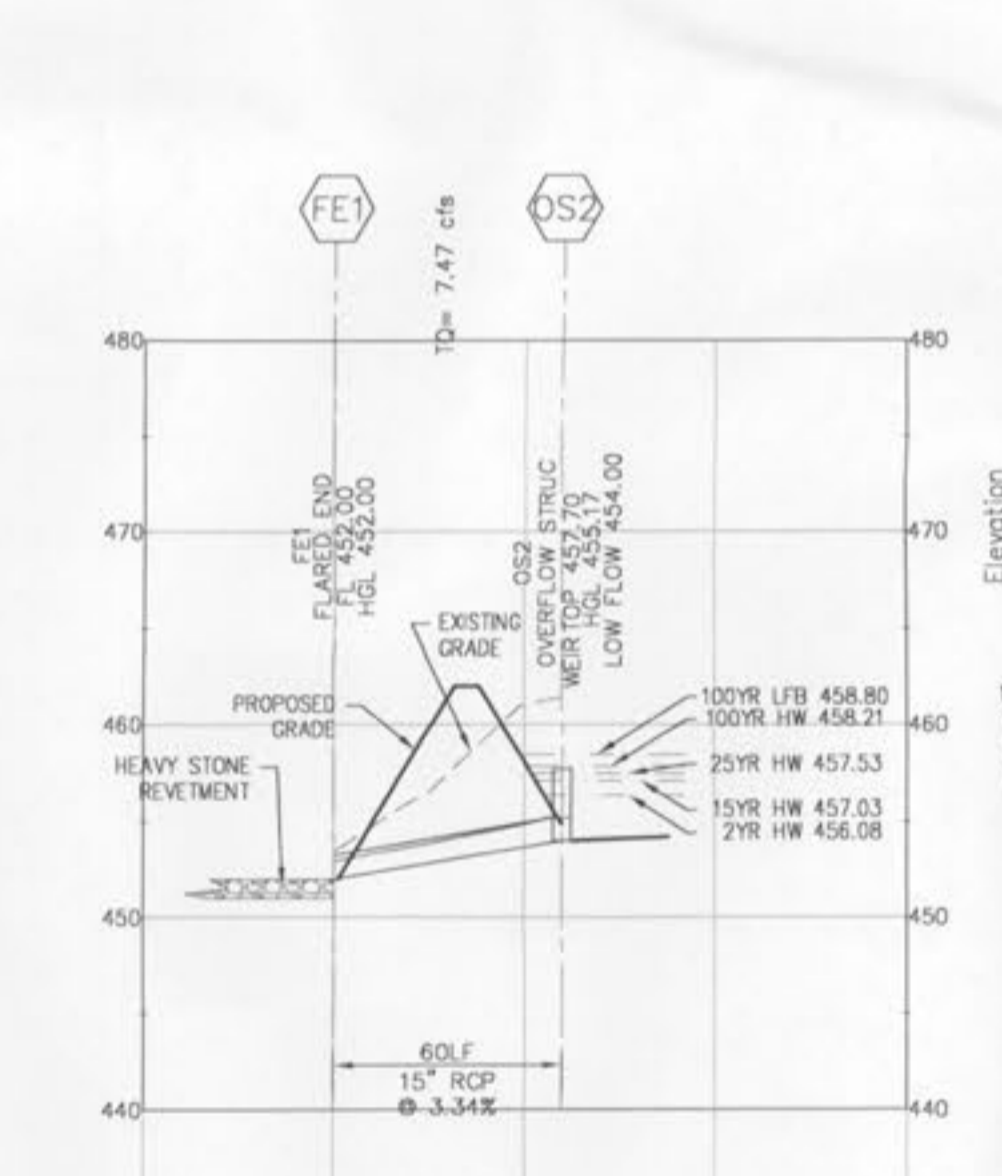
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=10'



DITCH SECTION C-C
N.T.S.

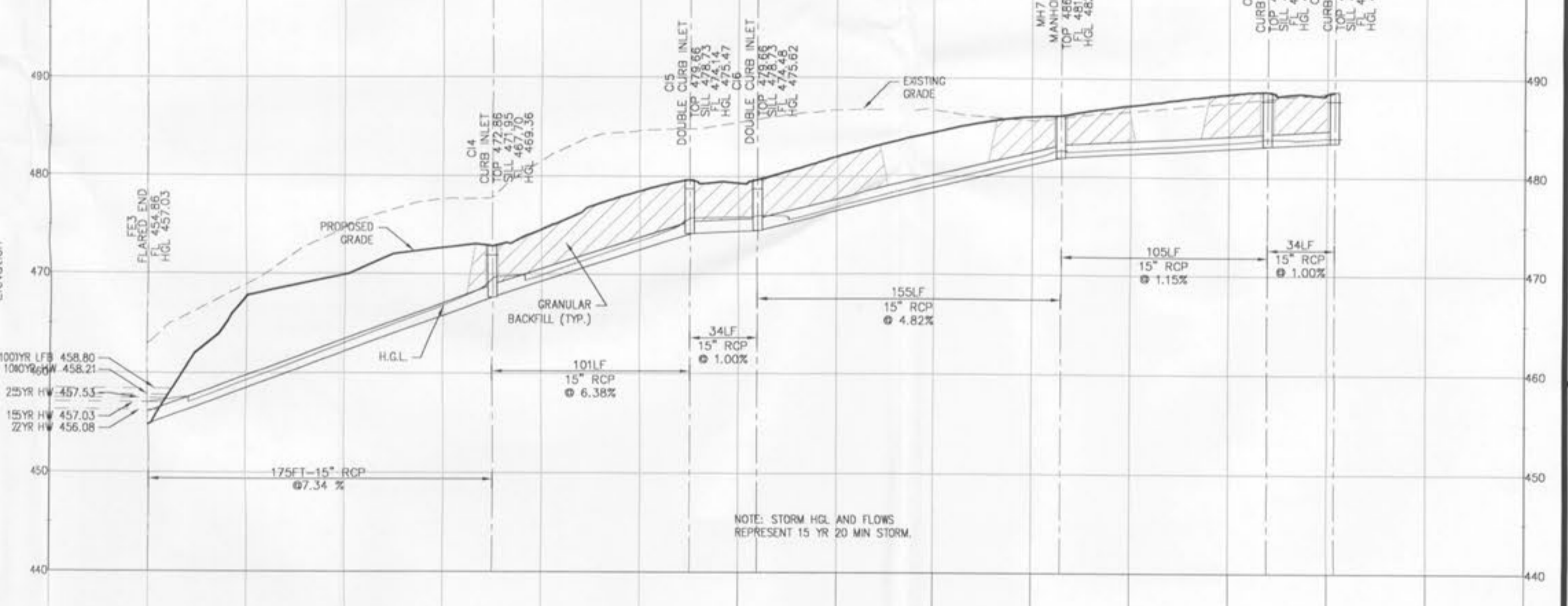
SECTION C-C

NOT TO SCALE



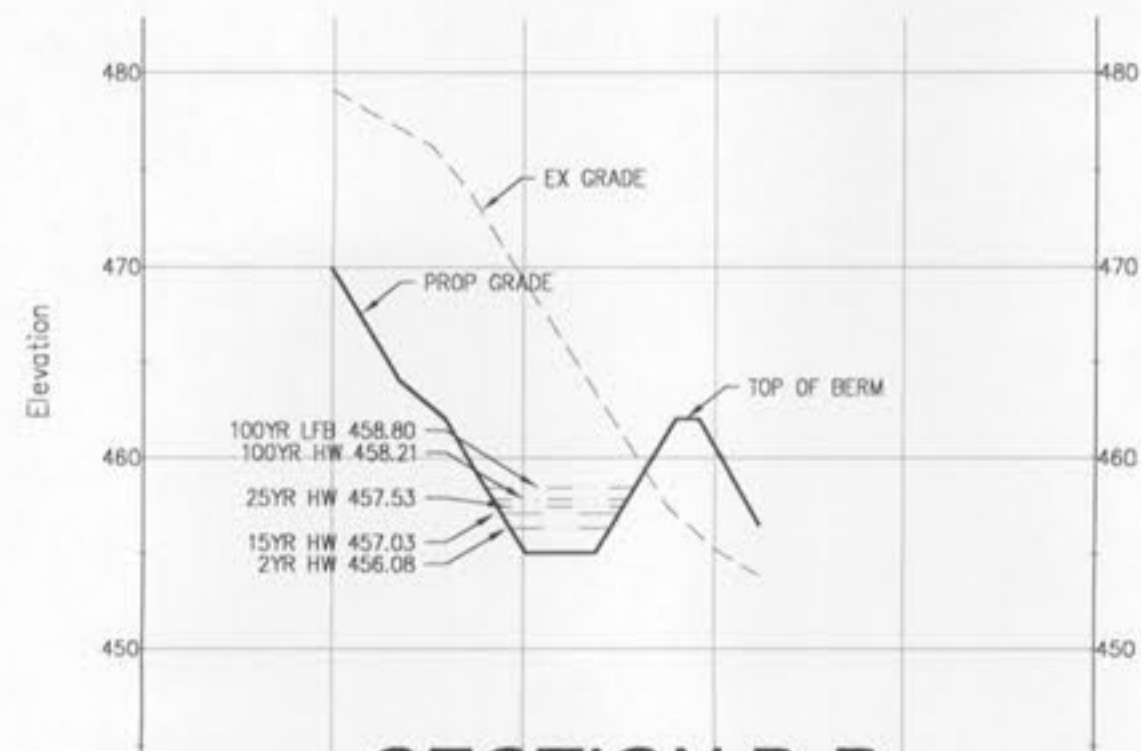
STORM SEWER PROFILE

SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=10'



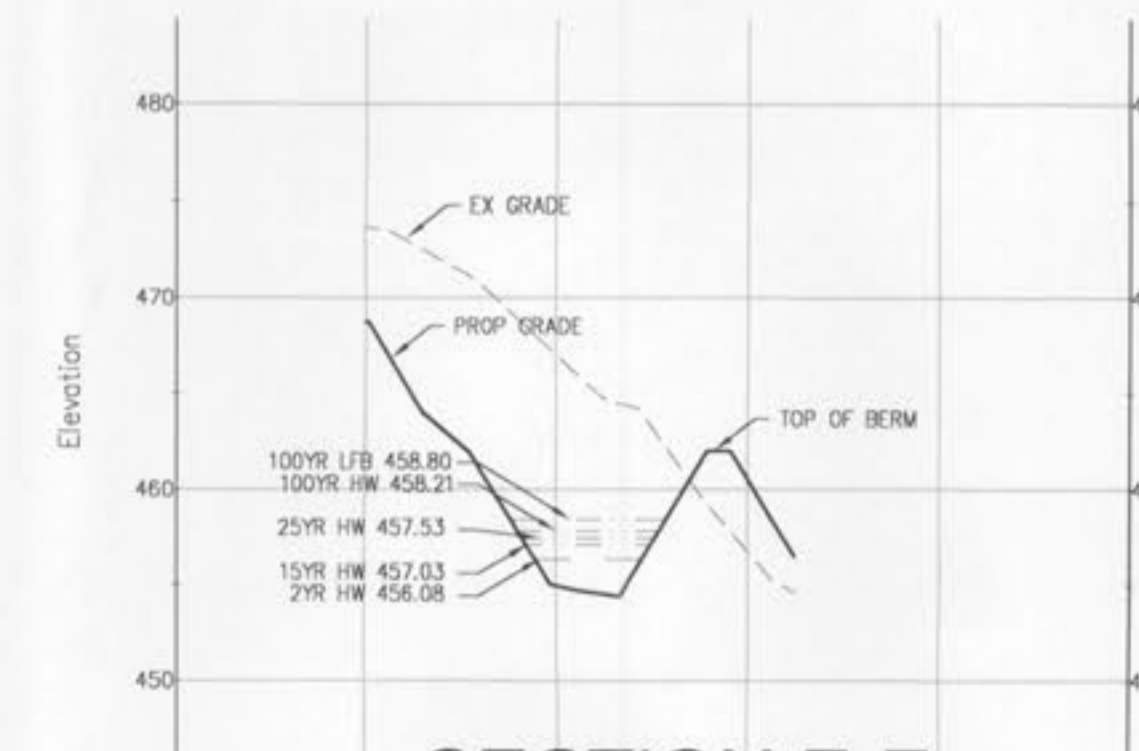
STORM SEWER PROFILE

SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=10'



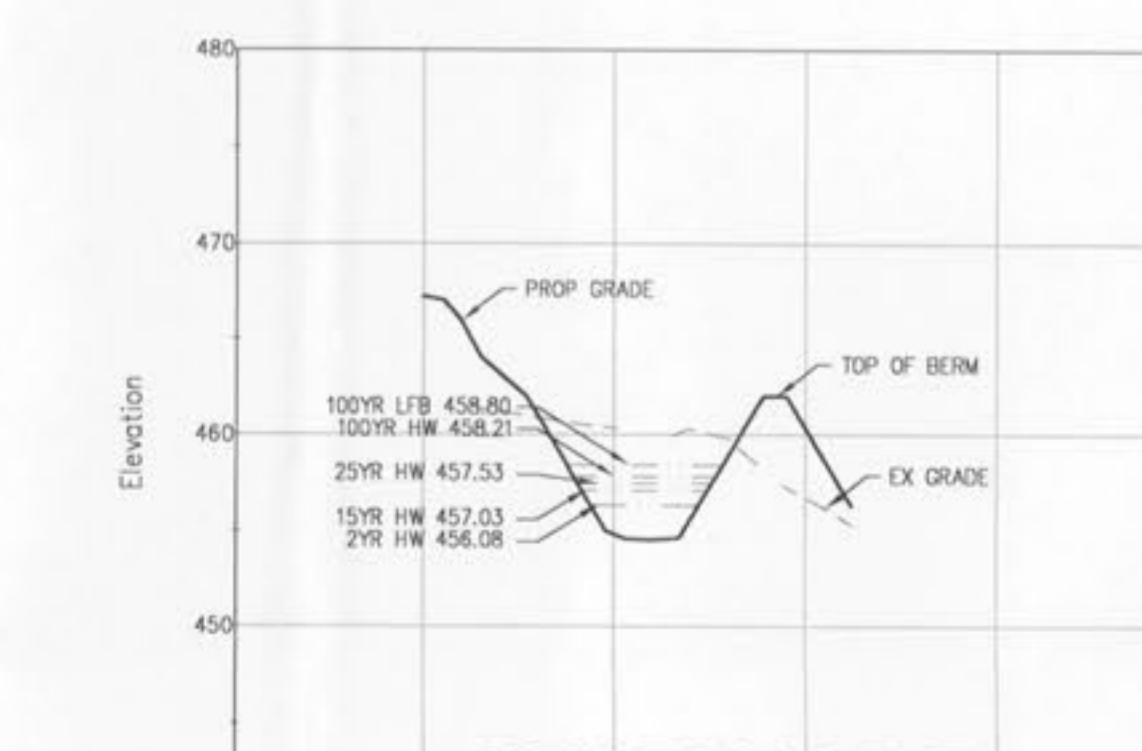
SECTION D-D

SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=10'



SECTION E-E

SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=10'



SECTION F-F

SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=10'

TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION
OCT 18, 2006

DESCRIPTION	VALUE
PROGRAM INPUT DATA	
Flow Rate (cfs)	4.98
Channel Bottom Slope (ft/ft)	0.06
Manning's Roughness Coefficient (n-value)	0.027
Channel Left Side Slope (horizontal/vertical)	0.31
Channel Right Side Slope (horizontal/vertical)	0.31
Channel Bottom Width (ft)	4.1
COMPUTATION RESULTS	
Normal Depth (ft)	0.37
Flow Velocity (ft/s)	4.03
Froude Number	1.04
Velocity Head (ft)	0.23
Energy Head (ft)	0.82
Cross-Sectional Area of Flow (sq ft)	1.13
Top Width of Flow (ft)	6.82

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REVISIONS

02-29-05	1	CITY OF OTTAWA COMMENTS
02-29-05	2	CITY OF OTTAWA COMMENTS
04-03-05	3	CITY OF OTTAWA COMMENTS
05-02-05	4	MISC COMMENTS

DEVELOPER/OWNER:
R3 DEVELOPMENT, LLC
7800 HIGHWAY N
O'FALLON, MO 63366
(636) 567-3948

THE PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE ARE REQUIRED ON THIS DRAWING. THE SEAL AND SIGNATURE OF THE ENGINEER MUST BE PLACED IN THE LOWER RIGHT CORNER OF THIS DRAWING. THE SEAL AND SIGNATURE OF THE ENGINEER MUST BE PLACED IN THE LOWER RIGHT CORNER OF THIS DRAWING.

SEAL:
MICHAEL J. BROWN
REGISTERED PROFESSIONAL ENGINEER
E-221033

THE HEIGHTS
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O'FALLON, MO 63366

Storm & Sanitary Sewer Profiles

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Cole and Associates
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DESIGNED BY: JCB
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CHECKED BY: MB
DATE: 10/03/05
Job Number: 05-143
Sheet Number: C7.0

P&Z #2705 & 2705.01

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