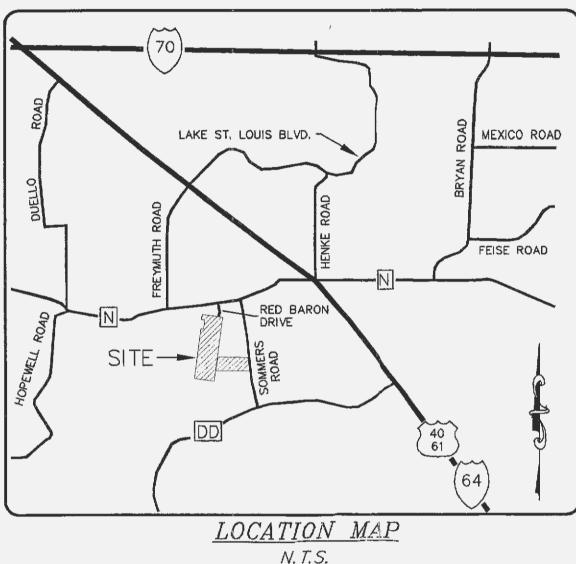
## GRADING & STORM WATER POLLUTION PREVENTION PLAN



		N. T.S.		
	PROPOSED  (542) (536)   X  X  (536)   (542) (536)   (542) (536)   (542) (536)   (542) (536)   (6'W) (7) (6'W) (7) (E) (0HW)  FL TBR (TC)  **  **  **  **  **  **  **  **  **		Existin Trees Trees 15 tre require Trees 147 tr Compl	proposed = 147 trees rees proposed = 147 trees required ied with Ordinance to detailed Landscape Plan submitted parate sheet with Final Area Plan.
SILTATION CONTROL (STRAW BALES) ROL (MARAFI FABRIC W/HOG WIRE)	x x		1 tree	T TREES shall be provided at a rate of one or lot and Two (2) per corner lot.

PROJECT NOTES:
1) GROSS AREA OF SITE: 102.6 ACRES 2) EXISTING ZONING: R-1 PUD & R-3 PUD

3) AN APPROVED FINAL AREA PLAN IS STILL REQUIRED FOR THIS SITE.

JOHN AND JEAN STRUTMAN, TRUSTEES 4) CURRENT OWNER: RHODES INVESTMENT PROP. L.P. 2449 SOMMERS ROAD 8560 HIGHWAY N O'FALLON, MO. 63366 O'FALLON, MO 63366

> JANET AND WILLIAM BENNE H.V. REAL ESTATE CORP. & JEFFCO PROP., L.L.C. 317 CLARKSON ROAD, SUITE 103 ELLISVILLE, MO. 63011 8554 HIGHWAY N O'FALLON, MO 63366

5) OWNER UNDER CONTRACT: Chesterfield Valley Development, L.L.C. 16640 Chesterfield Grove Road Chesterfield, Mo. 63005

6) BUILDING SETBACK REQUIREMENTS FOR SINGLE-FAMILY DETACHED LOTS: FRONT YARD 20' SIDE YARD 6' (O FEET FOR ATTACHED UNITS) REAR YARD 15'

(SEE TYPICAL LOTS ON THIS SHEET FOR ATTACHED RESIDENTIAL SETBACK REQUIREMENTS.)

A) TOTAL UNITS: 535 B) SEE TYPICAL LOTS ON THIS SHEET FOR AREA AND DIMENSION REQUIREMENTS. C) 60' "A" LOTS 26' "D" DUPLEX ~ 102 24' "E" VILLAS ~ 68 20' "C" TOWNHOMES ~ 116 TOTAL = 535 LOTS/UNITS

A) SITE AREA: 81.94 AC. B) R.O.W. AREA: 15.90 AC. C) NET AREA: 66.04 ACRES D) ALLOWABLE LOTS: 66.04 AC. X 43,560 SF./AC. 9) R-3 P,U.D. A) SITE AREA: 20.66 ACRES

B) R.O.W. AREA: 5.45 AC. C) NET AREA: 15.21 ACRES D) ALLOWABLE UNITS: 15.21 AC. X 43.560 SF./AC.

ALLOWABLE UNITS IN P.U.D.: 288 + 265 = 553 UNITS

11) PRIOR TO ISSUANCE OF BUILDING PERMITS FOR MORE THAN 30% OF THE TOTAL UNITS BUILDING PERMITS FOR ALL RECREATIONAL FACILITIES SHALL BE PULLED AND PRIOR TO THE ISSUANCE OF BUILDING PERMITS FOR 40% OF THE TOTAL UNITS, ALL RECREATIONAL AMENITIES SHALL OPEN FOR USE OR ESCROW FUNDS FOR THE AMENITY PACKAGE MAY

12) STRUCTURE COVERAGE IS EQUAL TO 32.8% OF SITE.

10) COMBINED INFORMATION:

13) NO PARKING WILL BE ALLOWED ALONG COLLECTOR ROAD AND CUL-DE-SACS OF VILLAGE B AND VILLAGE D.

14) AVERAGE SINGLE FAMILY DETATCHED LOT SIZE: 7,220 SQ.FT. 15) 10 SMALLEST LOTS:  $1 \sim LOT 23C = 2,120 SQ.FT$ 2 ~ LOT 24C = 2,120 SQ.FT, 3 ~ LOT 27C = 2,120 SQ.FT, 4 ~ LOT 28C = 2,120 SQ.FT 5 ~ LOT 31C = 2,120 SQ.FT.  $6 \sim LOT 32C = 2,120 SQ.FT$  $7 \sim LOT 35C = 2,120 SQ.FT.$ 8 ~ LOT 36C = 2,120 SQ.FT. 9 ~ LOT 94C = 2,120 SQ.FT.  $10 \sim LOT 95C = 2,120 SQ.FT.$ 

16) ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT VIA COUNTRYSHIRE DRIVE ENTRANCE ON SOMMERS ROAD.

17) TENTATIVE DESIGN SPEED FOR THE COLLECTOR ROAD SHALL BE 40 MPH. WITH A MAXIMUM SUPER ELEVATION OF 4%

18) LAKES WILL BE A MAINTAINED TO A MINIMUM OF TEN (10') FEET DEEP UNTIL TURNED OVER TO THE HOMEOWNER'S ASSOCIATION.

19) A SEPARATE SITE PLAN FOR THE POOL, CABANA, GAZEBO, SPORTS COURTS, PLAYGROUND AND TOT LOT WILL BE SUBMITTED WITH FINAL PLAN THAT WILL INDICATE EXACT SIZE AND RECREATIONAL FEATURES TO BE INSTALLED.

20) NO SLOPES SHALL EXCEED 3 (horizontal) TO 1 (vertical), UNLESS JUSTIFIED BY GEOTECHNICAL REPORT WHICH HAS BEEN ACCEPTED OR APPROVED BY THE CITY OF O'FALLON,



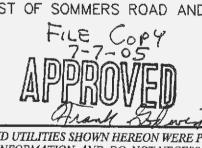
## FLOOD PLAIN NOTE:

ACCORDING TO THE FLOOD INSURANCE RATE MAP OF THE COUNTY OF ST. CHARLES. MISSOURI, UNINCORPORATED AREAS (COMMUNITY PANEL NUMBER 29183C0220 E DATED AUGUST 2, 1996. THIS PROPERTY LIES ENTIRELY WITHIN ZONE X. ZONE X IS DEFINED AS AN AREA OUTSIDE THE 500 YEAR FLOOD HAZARD, IN WHICH BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED.

## PROJECT BENCHMARK

"SQ" CUT WEST END OF SOUTHERN HEADWALL LOCATED AT THE SOUTHWEST INTERSECTION OF SOMMERS ROAD AND STATE HIGHWAY "N"; 36.5' EAST OF SOMMERS ROAD AND 14' SOUTH OF CENTERLINE OF STATE HIGHWAY "N".

ELEVATION = 607.22 (USGS)



THE UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NONEXISTENCE, SIZE, TYPE, NUMBER OR LOCATION OF THESE OR OTHER UTILITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319, RSMo.

M.S.D. SHEE DIGITAL FILE LOCATION SERVER=STERLING-2

BASE MAP

GRADING NOTES:

specifications of the governing agencies.

responsibility to perform such work.

(Subgrade is figured at pavement depth).

5. Contractor shall keep road clear of mud and debris.

compaction, surface preparation, and placement of fill.

the contractor and shall remain the contractors responsibility.

1. All construction methods, materials and practices shall conform to all current applicable

3. Underground utilities have been plotted from available information and therefore their

locations must be considered approximate only. The verification of the location of all

the contractor, and shall be located prior to grading or construction of improvements.

4. It shall be distinctly understood that failure to specifically mention any work which would

6. All filled areas to be compacted to a minimum of 90 percent of maximum dry density as

determined by the Modified AASHTO Compacting Test, ASTM D1557-78, or as specified by

7. It shall be the grading contractors responsibility to notify the soils engineer prior to work in

normally be required to complete the project shall not relieve the contractor of his

progress and to comply with recommendations by the soils engineer with regards to

8. It shall be the grading contractors responsibility to provide the location of any existing

9. The grading contractor shall cut or fill to subgrade elevation under all areas to be paved.

10. All permanent drainage swales shall be sodded or seeded and mulched to prevent erosion.

12. Subgrade is included in the total bid yardage. (Subgrade is figured at pavement depth).

13. Slopes to receive fill which are steeper than 5:1 should be benched prior to placement of

14. If fill is to be place in areas of soft soil, particularly in draws, drainage channels and other

16. A drainage easement will be granted to the City of O'Fallon for any creeks to remain in the

17. Siltation control will be installed prior to any grading or construction operations and shall be

inspected and maintained as necessary to insure their proper function until sufficient

18. Additional siltation control may be required as directed by the local governing authority.

21. Erosion and sediment control structures shall be maintained throughout the construction

22. The Developer shall provide the City of O'Fallon construction inspectors with soils reports

23. The contractor shall assume complete responsibility for controlling all siltation and erosion of

siltation including, but not limited to, staked straw bales and/or siltation fabric fences

and be maintained throughout the project until acceptance of the work by the Owner and/or the City of O'Fallon and/or MoDOT The Contractor's responsibilities include all design

24. All erosion control systems shall be inspected and necessary corrections made within 24

necessary shall be taken to prevent siltation and erosion from entering natural streams,

27. No slope shall exceed 3(horz.):1(Vert.) unless approved by the soils engineer and the City of

Standard Proctor Test AASHOT T-99. All filled places in proposed roads shall be compacted

with grading and backfilling operations. Ensure the moisture content of the soil in fill areas

is to correspond to the compactive effort as defined by the Standard or Modified Proctor

Test. Optimum moisture content shall be determined using the same test that was used for compaction. Soil compaction curves shall be submitted to the City of O'Fallon prior to the

placement of fill. Proof rolling may be required to verify soil stability at the discretion of the

damaging adjacent property and silting up all storm drainage systems whether on or off site.

30. All low places whether on-site of off-site should be graded to allow drainage by installing

32. All trash and debris on-site, either existing or from construction, must be removed and

33. Debris and foundation material from any existing on—site building or structure which is

34. Soft soils in the bottom and banks of any existing or former pond sites or tributaries

35. Please notify the Director of Public Works for the City of O'Fallon 24 hours prior to the commencement of grading. No building permits will be issued by the City of O'Fallon until

36. The sediment control plan should be implemented before grading begins. This should follow

37. The engineer shall not be liable for damage caused by erosion or siltation due to defective

38. The moisture content of the soil in fill areas is to correspond to the compaction efforts as

39. The petitioner is aware and in agreement that the City will not waive or assume the cost for any water or sewer connection fees (tap fees) in conjunction with this proposed

the guidelines in the model sediment and erosion control regulations by St. Charles Soil and

sewer location. Dewatering of existing pond shall not exceed 50 GPM.

construction plans are approved and the final plat recorded.

siltation control devices, installation, or maintenance.

defined by the Standard or Modified Proctor Test.

scheduled to be razed for this development must be disposed of off-site. All existing

should be removed, spread out and permitted to dry sufficiently to be used as fill. None of

this material should be placed in proposed public right—of—way locations or on any storm

31. Any wells and/or springs which may exist on this property should be located and sealed in a

28. All filled places under proposed storm and sanitary sewer, proposed roads, and/or paved

areas shall be compacted to 90% of maximum density as determined by the Modified

from the bottom of the fill up. All tests shall be verified by a soils engineer concurrent

AASHTO T—180 Compaction Test or 95% of maximum density as determined by the

29. When deemed necessary, positive steps should be exercised to prevent the soil from

25. Erosion control shall not be limited to what is shown on the plan. Whatever means

26. No graded area shall remain bare for over 2 weeks without being seeded or mulched.

hours of any rainstorm resulting in one—half inch of rain or more.

and implementation as required to prevent erosion and the depositing of sitt. The Owner and/or the City of O'Fallon and/or MoDot may at their option direct the Contractor in his

the project area. The Contractor shall use whatever means necessary to control erosion and

(possible methods of control are detailed in the pion). Control shall commence with grading

methods as deemed fit to protect property and improvements. Any depositing of any silts or

mud on new or existing pavement or in new or existing sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/or the City

19. All grading areas shall be protected from erosion by erosion control devices and/or seeding

11. All stumps, limbs, and other debris are to be removed from the site unless a suitable dump

area is approved in advance by the owner after consulting with the soils engineer if burning

underground utilities by notifying utility companies prior to grading operations.

low lying areas, the soft soil shall be excavated until firm soil is encountered.

15. All grading shall comply with the soils engineer's recommendations.

vegetation has been established to prevent erosion.

and mulching as required by the City of O'Fallon.

prior to and during site soil testing.

of O'Fallon and/or MoDOT

City of O'Fallon.

temporary ditches.

disposed of off-site.

Water Conservation District.

development.

adjacent roadways, properties, ditches.

manner acceptable to the City of O'Fallon.

buildings and fencing is to be removed.

2. Any destruction of existing improvements or features shall be repaired or replaced in kind by

underground utilities, either shown or not shown on these plans shall be the responsibility of