

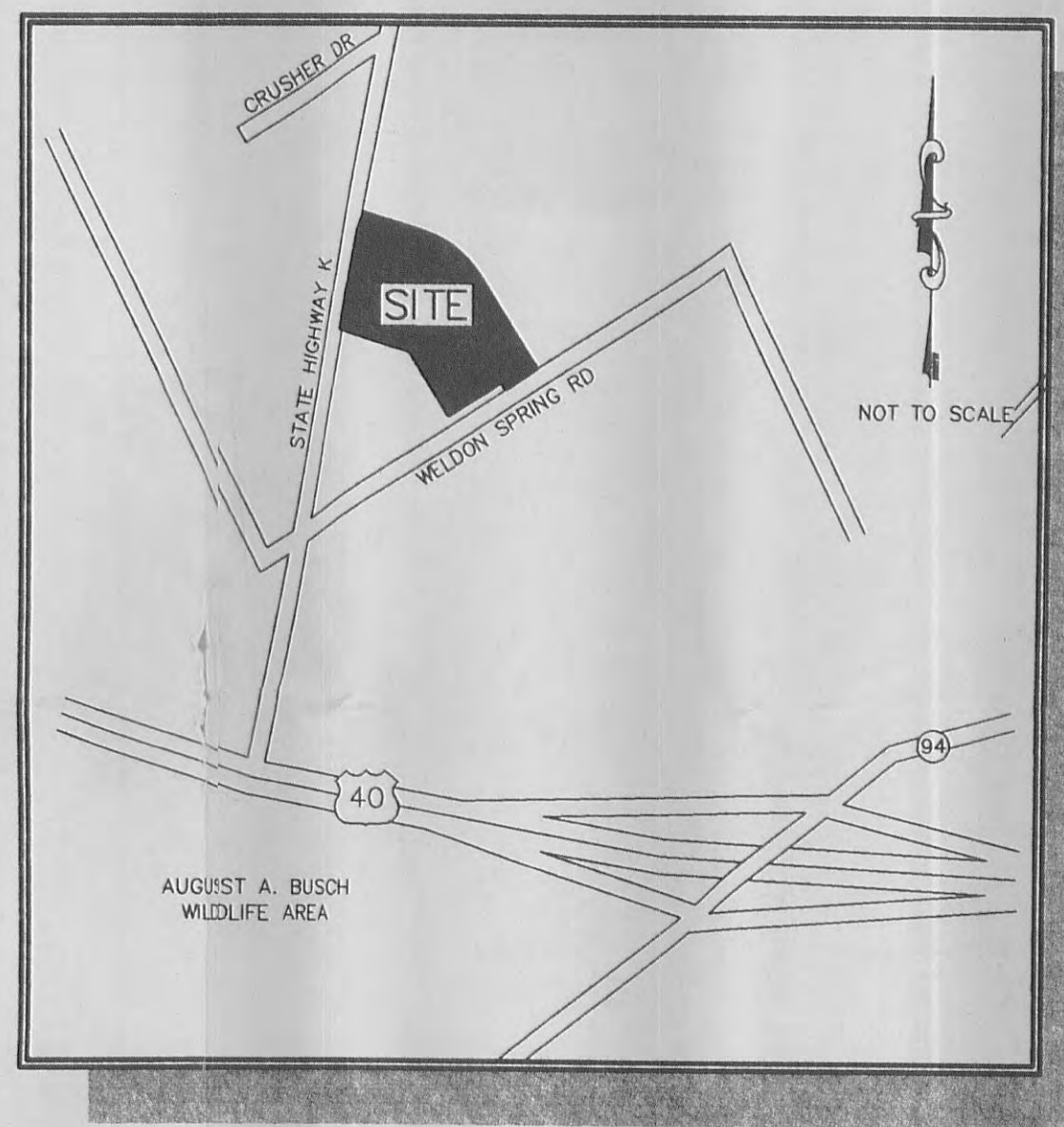
Lot 2 of Quicktrip

A TRACT OF LAND BEING LOT 2 OF
QUICKTRIP 632 SUBDIVISION AS
RECORDED IN PLAT BOOK 36 PAGE 264
LOCATED IN U.S. SURVEY 1669,
TOWNSHIP 46 NORTH, RANGE 3 EAST
ST. CHARLES COUNTY, MISSOURI

SEDIMENT AND EROSION CONTROL PLAN FOR FILL

ST. CHARLES COUNTY GENERAL NOTES

- Gas, water and other underground utilities shall not conflict with the depth or horizontal locations of existing and proposed sanitary and storm sewers, including house laterals.
- Underground utilities have been plotted from available information and, therefore, their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to grading or construction of improvements.
- All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench back fills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.O. T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests shall be verified by a soils engineer.
- All filled places in proposed and existing St. Charles County roads (highways) shall be compacted from the bottom of the fill up to 90 percent maximum density as determined by the "Modified AASHTO T-180 compaction test" (ASTM D-1557). Paved areas in cuts shall meet the same compaction requirements. All test shall be verified by a soils engineer concurrent with grading operations.
- No area shall be cleared without permission of the developer.
- All grades shall be within 0.2 feet more or less of those shown on the grading plan.
- No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
- The developer shall contract with a soil consultant firm registered in the State of Missouri during the grading operation to monitor cut and fills and to insure proper compaction has been achieved.
- If the storm and sanitary sewers are parallel and in the same trench or over dig, the upper pipe shall be placed on a shell and the lower pipe shall be bedded in compacted granular fill to the flow line of the upper pipe.
- The total yardage for this project is based on a 15.0% shrinkage factor.
- The shrinkage factor is subject to change, due to soil conditions, (types and moisture content), weather conditions, and the percent compaction actually achieved at the time year grading is performed. As a result, adjustments in final grade may be required. If adjustments need to be made, the contractor shall contact Pickett, Ray & Silver, Inc. prior to completion of the grading.
- Earth quantities were obtained from aerial grid mapping with contours at one foot intervals, with a tolerance of plus or minus one-half foot or one-half (1/2) contour interval.
- The computed bid yardage is to finish grades as shown, and does not include the removal of subgrade where required.
- Soil preparation and revegetation shall consist of wheat or rye between October and November at a rate of 150 pounds per acre. See Appendix A of the Model Sediment and Erosion Control Regulations for Urban Development. Fescue will be used during next seeding period in March.
- If sediment control structures are destroyed by heavy rains, vandalism, etc., they are to be replaced immediately by the Contractor.
- Estimated Grading & Construction Schedule
 - Set Sediment and Erosion control: 4/02
 - Place Compacted Soil: Start 4/02
- Where natural vegetation is removed during grading, vegetation shall be reestablished in such a density as to prevent erosion. Permanent type grasses shall be established as soon as possible or during the next seeding period after grading has been completed. Refer to Appendix A of St. Charles Soil and Water Conservation District - Model Sediment and Erosion Control Regulations.
- When grading operations are completed or suspended for more than 30 days, permanent grass must be established at sufficient density to provide erosion control on the site. Between permanent grass seeding periods, temporary cover shall be provided according to the designated officials recommendation. Refer to Appendix A of St. Charles Soil and Water Conservation District - Model Sediment and Erosion Control Regulations.
- All finished grades (areas not to be disturbed by future improvement) in excess of 20% slopes (5:1) shall be mulched and tacked at the rate of 100 pounds per 1,000 square feet when seeded.
- All lots shall be seeded and mulched at the rates defined in Appendix A of St. Charles Soil and Water Conservation District - Model Sediment and Erosion Control Regulations or sodded before an occupancy permit shall be issued, except that a temporary occupancy permit may be issued by the Building Department in cases of undue hardship because of unfavorable ground conditions.
- Any wells and/or springs which may exist on this property should be located and sealed in a manner acceptable to the City of O'Fallon Highway and Building Departments.
- All trash and debris onsite, either existing or from construction, must be removed and properly disposed of offsite.
- Debris and foundation material from any existing on-site building or structure which is scheduled to be razed for this development must be disposed of off-site.
- Soft soils in the bottom and banks of any existing or former pond sites, tributaries or sediment basins or traps 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 sewer location.
- Construction Equipment access to development shall be directly off Weldon Springs Rd.
- Development is not located within the 100 Year Flood Plain Limits as shown on the Flood Insurance Rate Map, Community Panel No. 29183C-040 E, (revised date August 2, 1996).
- All existing improvements damaged or destroyed during construction shall be replaced or repaired in kind.
- Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR 35.
- All P.V.C. sanitary sewer pipe to be SDR-35 or equal with crushed stone bedding uniformly graded between 3/4" and 1/4" size. This bedding shall extend from 6" below the pipe to 8" above the top of the pipe.
- All exterior sewer manholes shall be waterproofed on the exterior in accordance with Missouri Department of Natural Resources specifications. 10 CSR-8.120 (7)(E).
- Brick shall not be used on manholes.
- The minimum vertical distance from the low point of the basement to the flow line of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance not less than two of one-half feet (2-1/2").
- Storm sewers 12" diameter or larger shall be A.S.T.M. C-76, Class II.
- All storm sewer pipe under pavement, or within proposed Right-of-way, regardless of size, shall be reinforced concrete pipe (A.S.T.M. C-76, Class II) unless noted otherwise on the plans.
- Concrete pipe joints shall be MSD Type "A" approved compression-type joints and shall conform to the requirements of the Specifications for joints for Circular Concrete Sewer and Overlaid Pipe, using Flexible, Watertight, Rubber-Type Gaskets ASTM C443, Band-Type gaskets depending entirely on element for adhesion and resistance to displacement during jointing shall not be used.
- All manhole and catch basin tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stake-out of the sewer line, all curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction, the Engineer will set these stakes on a double offset. It will be the responsibility of the sewer contractor to remove all face stakes from destruction.
- All standard street curb inlets to have front of inlet 2 feet behind curb.
- All grot for rip-rap shall be high slump ready-mix concrete.
- The grading contractor shall provide ground cover within two weeks of completing grading. Type of cover will be specified by the developer in conformance with St. Charles County Standards.
- When rough grading is complete, it is the responsibility of the grading contractor to notify the surveying company to request a grade check. Notification shall be one week prior to grading completion.
- All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
- All storm and sanitary trench back fills will be water jetted. Granular back fill will be used under pavement areas.
- Easements shall be provided for storm sewers, sanitary sewers and all utilities on the record plat. See record plat for location and size of easements. This does not apply to house laterals.
- Hazard markers will consist of three (3) standard specification, "Manual on Uniform Traffic Control Devices," end of roadway markers mounted on two (2) pound "U" channel sign post. Each marker shall consist of an eighteen (18) inch diamond reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.
- All streets within the public right-of-way and all private streets within the subdivision must meet the Class "A" specifications and installation requirements of St. Charles County, Missouri.
- All existing and proposed monuments, as required, will be shown on the Final Record Plat.
- Water lines, valves, sleeves, meters and etc., shall meet all specifications and installation requirements of the local governing authority.
- All cast iron pipe for water mains shall conform to A.W.W.A. specification C-106 and/or C-108. The cast iron fittings shall conform to A.W.W.A. specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to A.W.W.A. specification C-111.
- All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
- All P.V.C. water pipe shall have a minimum pressure rate of PR-200 or SDR-21.
- All incoming pipes and outgoing pipes shall have positive drainage through structures. No flat base structures are allowed.
- "Temporary siltation control measures (structural) shall be maintained until vegetative cover is established at a sufficient density to provide erosion control on the site."
- Owner/Developer assumes full responsibility as to the performance of the grading operation and assurance that all properties and roads will be adequately protected.
- Existing sanitary sewer service shall not be interrupted.
- Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot/Mission-type coupling will not be allowed.
- Upon completion of storm sewers, siltation control shall be provided around all open sewer inlets and shall remain until the disturbed drainage areas have been properly stabilized.



KEY MAP

Sheet

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Description

COVER SHEET
FILL AREA
DETAIL SHEET

LEGEND

Sanitary Sewer (Proposed)	Sanitary Structure	R.C.P.	Reinforced Concrete Pipe
Sanitary Sewer (Existing)	Storm Structure	C.M.P.	Corrugated Metal Pipe
Storm Sewer (Proposed)	Test Hole	C.I.P.	Cast Iron Pipe
Storm Sewer (Existing)	Power Pole	P.V.C.	Polyvinyl Chloride
Water Line & Size	Light Standard	V.C.P.	Vitrified Clay Pipe
Existing water line	Double Water Meter Setting	C.O.	Clean Out
Tee & Valve	Single Water Meter Setting	V.T.	Vent Trap
Hydrant	Curb Inlet	T.B.R.	To Be Removed
Cap	Skewed Curb Inlet	T.B.R.&R	To Be Removed & Relocated
13 Lot or Building Number	Double Curb Inlet	T.B.P.	To Be Protected
Existing Fence Line	Grate Inlet	T.B.A.	To Be Abandoned
Existing Tree Line	Area Inlet	B.C.	Base Of Curb
Street Sign	Double Area Inlet	T.C.	Top Of Curb
Existing Contour	Concrete Collar	T.W.	Top Of Wall
Proposed Contour	Flared End Section	B.W.	Base Of Wall
Grouted Rip-Rap	End Pipe	(TYP)	Typical
End of Lateral	Energy Dissipator	U.N.O.	Unless Noted Otherwise
Asphalt Pavement	Manhole	U.I.P.	Use In Place
Concrete Pavement	Concrete Pipe		

BENCHMARKS

FEMA BENCH MARKS
RM 42 Chiseled square on east end of concrete pier on 5th bank of Dardenne Creek at Henning Road bridge
ELEVATION = 486.37
SITE BENCH MARK
"0" in on fire hydrant 8 1/2 feet south of the southwest property corner.
ELEVATION = 561.09

PICKETT RAY & SILVER
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PLANNERS
LAND SURVEYORS
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Lot 2 of Quicktrip
Cover Sheet
Prepared For:
Mr. Dean Jackson
206 Forest Acres
O'Fallon, MO 63366
636-240-7088

REVISIONS	NO.	DATE	DESCRIPTION
	1	4/10/02	PER COMMENTS SENT FROM DEANIE GREENE AND PER CITY OF FALLON JML/td

ENGINEERS AUTHENTICATION
The responsibility for professional engineering liability on this project is hereby limited to the seal of plans authenticated by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticated.

RECEIVED
APR 10 2002
CITY OF O'FALLON, MO

DRAWN	JML	DATE	4-2-02
CHECKED	X.X.X.	DATE	XX/XX/XX
PROJECT #	01045.DEJA.00R	FIELD BOOK	X
TASK #	1	FIELD BOOK	X

Lot 2 of Quicktrip
Cover Sheet
SHEET **1** OF **3**
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NOT APPROVED FOR CONSTRUCTION

4-10-02gpb
APPROVED

File
WAL-GREBS
ERADING ROW