

GENERAL NOTES

- Gas, Water and other underground utilities shall not conflict with the depth or horizontal location 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 fill placed under proposed storm and sanitary sewer, proposed roads, and/or paved areas shall be compacted to 95% of maximum density as determined by the Modified AASHTO T-180 Compaction Test AASHTO T-99. All fill placed in proposed roads shall be compacted from the bottom of the fill up. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations.
- 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 City of O'Fallon.
- All paving to be in accordance with St. Charles County Standards and specifications except as modified by the City of O'Fallon ordinances.
- All storm and sanitary trench backfills will be water jetted. Granular backfill will be used under pavement areas.
- No area shall be cleared without permission of the developer.
- All grade 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. All disturbed ground in the Hwy. K R.O.W. shall be sodded.
- Graded areas that are to remain bare for over two weeks shall be seeded and mulched.
- All erosion control systems shall be inspected and necessary corrections made within 24 hours of any rainstorm resulting in one-half inch of rain or more.
- This tract is served by:
 - COTTLEVILLE FIRE PROTECTION DISTRICT
 - DUCKETT CREEK SANITARY DISTRICT
 - CUIVRE RIVER ELECTRIC COOP.
 - ST. CHARLES GAS CO.
 - ST. CHARLES PUBLIC WATER DISTRICT NO. 2
- Grades for entrances should not exceed 2% at walks, 4% from street and 10% overall. Typically 2% from back of curb through the right of way is desired.
- Site is not located within the 100 yr. Floodplain Boundary as per F.I.R.M. Map 290316, Panel 0430 E August 2, 1996.
- Rip rap shown at pipe ends will be evaluated in the field after installation for effectiveness and field modified if necessary to reduce erosion on and off site.
- Developer must supply City construction inspectors with soil reports prior to or during site soil testing.

The soils report will be required to contain the following information on soil test curves (Proctor reports) for projects within the City:

 - Maximum dry density
 - Optimum moisture content
 - Maximum and minimum allowable moisture content
 - Curve must be plotted to show density from a minimum of 100% Compaction and above as determined by the "Modified AASHTO T-180 Compaction Test" (A.S.T.M. D-1157) or from a minimum of 95% as determined by the "Standard Proctor Test AASHTO T-99, Method C" (A.S.T.M. D-698). Proctor type must be designated on document.
 - Curve must have at least 5 density points with moisture content and sample locations listed on the document.
 - Specific gravity.
 - Natural moisture content.
 - Liquid limit.
 - Plastic limit.

Be advised that if this information is not provided to the City's Construction Inspector the City will not allow grading or construction activities to proceed on the project site.
- The Contractor shall assume complete responsibility for controlling all siltation and erosion of the project area. The Contractor shall use whatever means necessary to control erosion and siltation including, but not limited to, staked straw bales, and/or siltation fabric fences (possible methods of control are detailed in the plan). Control shall commence with grading 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 and implementation as required to prevent erosion and the depositing of silt. The Owner and/or the City of O'Fallon and/or MoDOT may at their option direct the Contractor in his methods as deemed fit to protect property and improvements. Any depositing of silt or mud on new or existing pavement shall be removed immediately. Any depositing of silts or mud in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/or the City of O'Fallon and/or MoDOT.
- All fill placed under proposed storm and sanitary sewer, proposed roads, and/or paved areas shall be compacted to 95% of maximum density as determined by the Modified AASHTO T-180 Compaction Test or 100% of maximum density as determined by the Standard Proctor Test AASHTO T-99. All fill placed in proposed roads shall be compacted from the bottom of the fill up. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations. 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 City of O'Fallon.
- All paving to be in accordance with St. Charles County standards and specifications except as modified by the City of O'Fallon ordinances.
- Pipe joints shall be gasketed O-ring type.
- All erosion control systems shall be inspected and necessary corrections made within 24 hours of any rainstorm resulting in one-half inch of rain or more.
- Graded areas that are to remain bare over 2 weeks shall be seeded and mulched per DNR requirements.
- Traffic control shall be per MODOT or MUTCO, whichever is most stringent.
- Trees, organic debris, rubble, foundations and other deleterious material shall be removed from the site and disposed in compliance with all applicable laws and regulations. Landfill tickets for such disposal shall be maintained on file by the developer. Burning on site shall be allowed only by permit from the local fire district. If a burn pit is proposed the location and mitigation shall be shown on the grading plan and documents by the soils engineer.

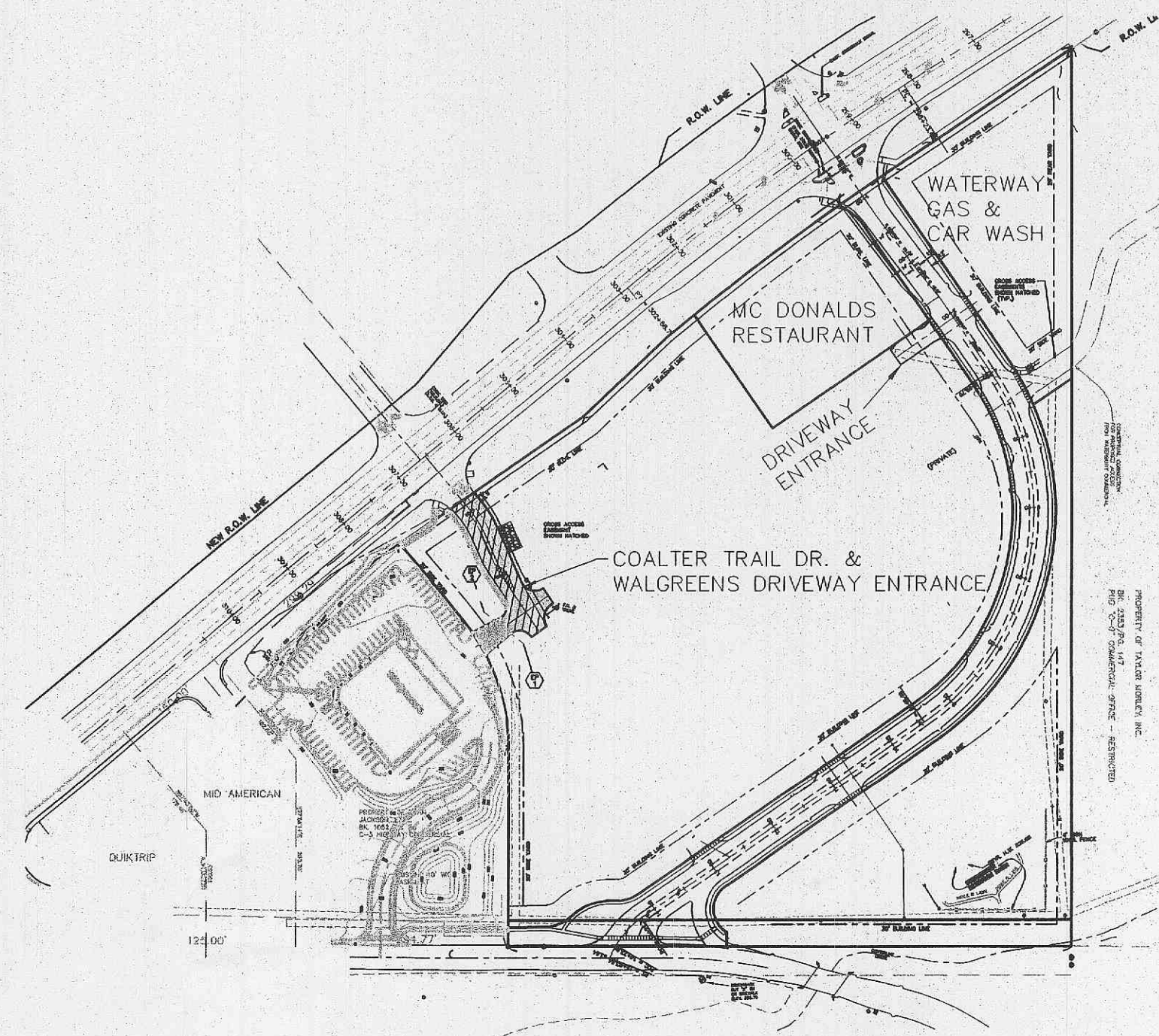
DRIVEWAY ENTRANCE ACCESS IMPROVEMENT PLANS FOR WALGREEN'S AT

KINGSMILL CROSSING

A TRACT OF LAND BEING PART OF LOT 25 OF THE JOHN D. COALTER'S SUBDIVISION OF HOWELL'S PRAIRIE TRACT IN U.S. SURVEY 1669, T.46N., R.3.E. ST. CHARLES COUNTY, MISSOURI

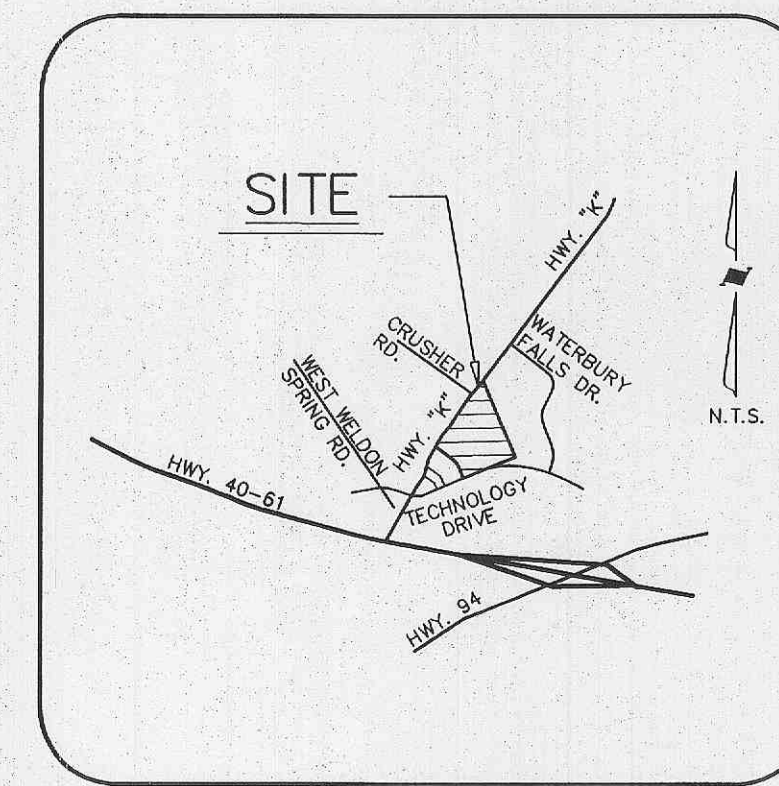
LEGEND

| | |
|---|---|
| <ul style="list-style-type: none"> ● Sanitary Sewer (Proposed) ○ Sanitary Sewer (Existing) ■ Storm Sewer (Proposed) □ Storm Sewer (Existing) 8" W Water Line and size Tee and Valve Fire Hydrant Cap Existing Fence Line Existing Tree Line Existing Contour Proposed Contour 26 Lot or Building Number 4 1/2 Street Sign Power Pole with Guy Wire Light Standard Gas Line Electric Line Telephone Line Test Hole | <ul style="list-style-type: none"> C.P. Concrete Pipe R.C.P. Reinforced Concrete Pipe C.M.P. Corrugated Metal Pipe P.V.C. Polyvinyl Chloride Pipe C.I.P. Cast Iron Pipe V.C.P. Vitrified Clay Pipe E.P. End Pipe F.E. Flared End Section C.O. Clean Out V.T. Vent Trap M.H. Manhole C.I. Curb Inlet D.C.I. Double Curb Inlet A.I. Area Inlet D.A.I. Double Area Inlet G.I. Grate Inlet C.C. Concrete Collar U.I.P. Use In Place T.B.R. To Be Removed T.B.R.&R. To Be Removed & Relocated/Replaced Set I.R. Set Iron Rod with Cap C.M. Concrete Monument O.I.P. Old Iron Pipe |
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SITE PLAN

NOT TO SCALE



LOCATION MAP

PROJECT BENCHMARK

#5208 OLD CROSS ON SIDEWALK AT QUIK TRIP DRIVEWAY
ELEV. 558.51
#60092 CUT "X" ON SIDEWALK AT TECHNOLOGY DR. (WELDON SPRINGS RD.)
ELEV. 528.79

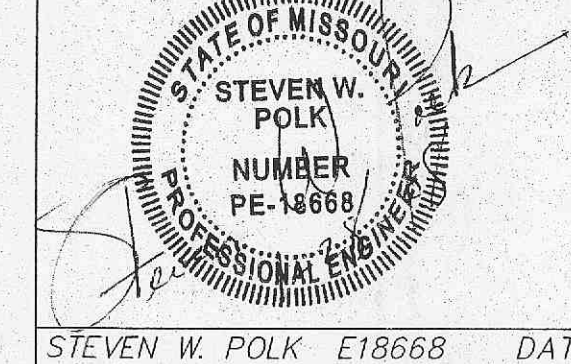
INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|-----------|------------------------------|
| 1 | COVER SHEET |
| 2 | SITE PLAN |
| 3 | GRADING PLAN |
| 4 | CONSTRUCTION DETAILS & NOTES |
| 5 | CONSTRUCTION DETAILS |

RECEIVED
JAN 28 2008

CITY OF O'FALLON
COMMUNITY DEVELOPMENT DEPARTMENT
ACCEPTED FOR CONSTRUCTION
BY: [Signature] DATE: 2-8-08
PROFESSIONAL ENGINEER'S SEAL
INDICATES RESPONSIBILITY FOR DESIGN

ENGINEER'S CERTIFICATION:
The following applies to ALL sheets and documents involved in the preparation of the plans and documents for this project. The responsibility for Professional Engineering liability on this project is limited to the set of plans displaying the signature and an original stamped seal of the Engineer on each sheet. ALL responsibility is Disclaimed until ALL review agency approvals are granted; for all other plan sheets issued prior to this issue date, for this set when another set is issued after this date, if the sheets are used individually instead of a set. This applies for ALL sheets and documents involved in this project whether this certification appears on it or not. Copyright 2003. All Rights Reserved.
ZAVRADINOS & ASSOCIATES, INC. DBA ZAVRADINOS ENGINEERING & SURVEYING



| No. | Date | Description | By |
|-----|---------|--|------|
| 2 | 1/28/08 | REV. SOIL COMPACTION PER CITY COMMENTS DATED 1-23-08 | G.W. |
| 1 | 1/07/08 | REVISED PER CITY COMMENTS DATED 11-15-07 | G.W. |

Prepared For: **WALMAR INVESTMENT CO.**
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Job Number: 96119
Sheet: 1/5

P&Z CASE NO. 9984.02