

ISSUE:

#	Date	Description
1	3-7-05	PER DUCKETT CREEK SANITARY DISTRICT
2	3/28/05	PER CITY OF O'FALLON, COTTLEVILLE FIRE PROTECTION, DUCKETT CREEK



**RUBY TUESDAY RESTAURANT**  
Lot 2A  
Persimmon Pointe Market  
O'Fallon, Missouri

PROJECT:  
RT ST. LOUIS  
FRANCHISE LLC

**RUBY TUESDAY  
PERSIMMON  
POINTE MARKET**

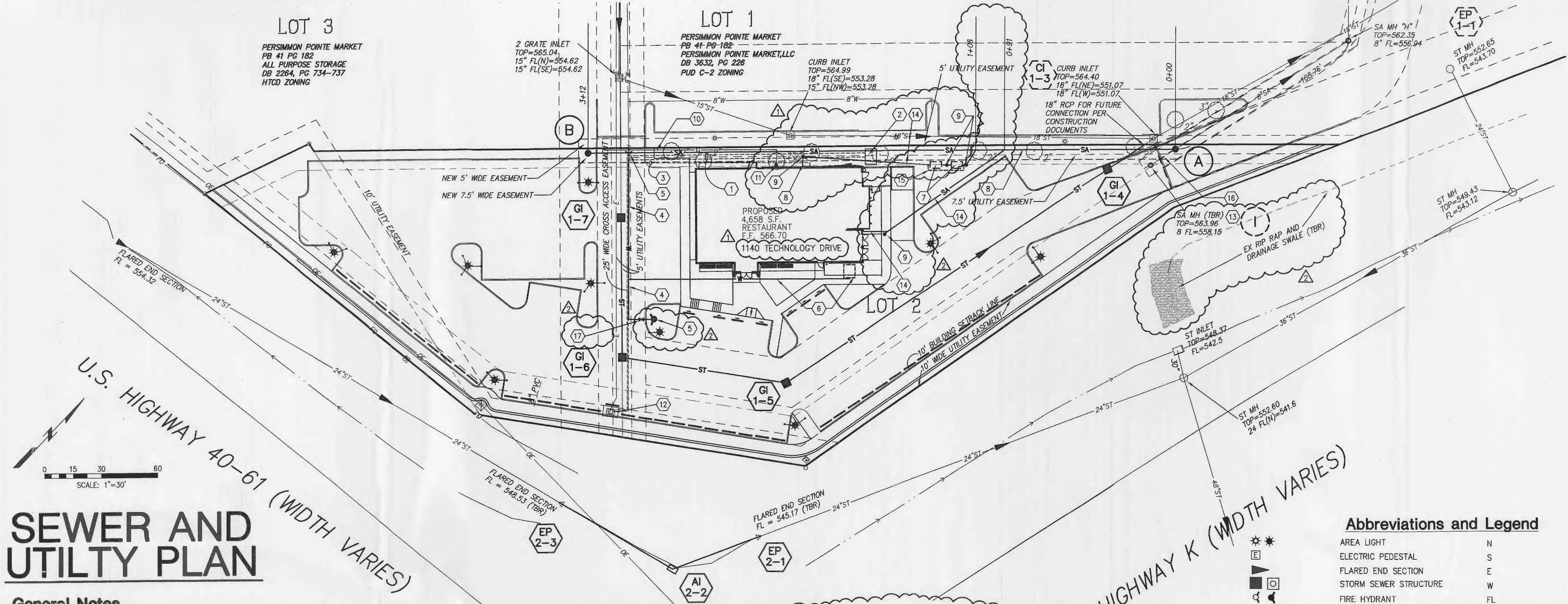
1140 TECHNOLOGY DRIVE  
O'FALLON, MO

Date: 2-03-05  
Design/Drawn: JPB  
Approved: JTB  
Book No.: -191

SHEET TITLE:  
**SEWER AND  
UTILITY PLAN**

SHEET NUMBER:  
**C-3**  
SHEET 3 OF 11

Project No.: 204390



# SEWER AND UTILITY PLAN

## General Notes

- REFER TO SHEET C-1 FOR DIMENSIONS AND IDENTIFICATION OF PROPOSED IMPROVEMENTS.
- REFER TO SHEET C-2 FOR GRADING, DRAINAGE, EROSION CONTROL AND SWPPP.
- REFER TO SHEET C-9 AND C-10 FOR LANDSCAPE MATERIALS.
- ALL UTILITIES WILL BE LOCATED UNDERGROUND.
- ALL EXISTING UNDERGROUND IMPROVEMENTS SHALL REMAIN UNLESS NOTED OTHERWISE.
- THE EXISTING UTILITIES SHOWN HEREON ARE FROM SURVEY AND INFORMATION PROVIDED BY UTILITY COMPANIES AND MUST BE CONSIDERED AS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATIONS PRIOR TO COMMENCING WORK.
- BACKFILL ALL UTILITY TRENCHES UNDER PAVEMENT WITH GRANULAR MATERIAL. REFER TO DETAIL ON SHEET C-5.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING TOPS AND FLOWLINES OF ALL EXISTING SEWERS PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND/OR ABANDONMENT OF ALL EXISTING UTILITY SERVICES (INCLUDING UTILITY COMPANY FEES).
- THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF EXIT PORCHES, RAMPS, PATIOS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- THE CONTRACTOR SHALL SAWCUT ALL EDGES OF EXISTING PAVEMENT THAT IS TO BE REMOVED. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO CREATE A SMOOTH WORKING EDGE AND TO PLACE BACKFILL AND PAVEMENT SUCH THAT SETTLEMENT DOES NOT OCCUR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL CONNECTION FEES, INSTALLING AND CONNECTING ALL UTILITIES (INCLUDING, BUT NOT LIMITED TO POWER, CABLE TV, TELEPHONE, GAS, SEWER, GAS, ETC.) FROM LOCAL UTILITY COMPANY SOURCE TO BUILDING.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE STORM SEWER CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF O'FALLON AND MISSOURI DEPT. OF TRANSPORTATION.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE ELECTRIC CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF AMEREN UE.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE TELEPHONE SERVICE CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF SBC.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE NATURAL GAS SERVICE CONSTRUCTION TO COORDINATE LAYOUT AND RUN WITH GAS COMPANY.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF DUCKETT CREEK SEWER DISTRICT.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE WATER SERVICE CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF PUBLIC WATER SUPPLY DISTRICT #2.
- BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF STORM OR SANITARY SEWER STRUCTURES.
- ALL SANITARY JOINTS SHALL BE GASKETED O-RING TYPE.
- ALL SANITARY SEWER LINES & WATERMANS SHALL HAVE A MINIMUM OF 42" OF COVER.
- NOT USED
- STRUCTURES SHALL BE BACKFILLED WITH COMPACTED ROCK BACKFILL IN THE DISTURBED GROUND AROUND THE STRUCTURE.
- SANITARY LATERALS AND MAINS CROSSING UNDER ROADWAYS MUST HAVE THE PROPER ROCK BACKFILL AND THE REQUIRED COMPACTION.
- ROOF DRAINS TO DISCHARGE ONTO GRADE.
- ALL STORM SEWERS SHALL HAVE A MINIMUM OF 36" OF COVER.
- PROVIDE 0.2" DROP THROUGH ALL STORM SEWER STRUCTURES.
- ALL STORM SEWER JOINTS SHALL BE GASKETED O-RING TYPE.
- THE REQUEST TO VACATE THE UTILITY EASEMENT ON LOT 3 IS NOT BEING PURSUED FURTHER. THE EXISTING EASEMENT WILL REMAIN.
- NEW FIRE HYDRANTS TO HAVE MINIMUM FLOW OF 1500 GPM AND A RESIDUAL PRESSURE OF 20 PSI.

## Utility Contacts

<p><b>STORM SEWER</b> CITY OF O'FALLON 100 NORTH MAIN STREET O'FALLON, MO 63366 (636) 240-5555 CONTACT: FRANK GODWIN</p>	<p><b>ELECTRIC SERVICE</b> AMEREN UE 200 CALLAHAN ROAD WENTZVILLE, MO 63385 (636) 639-8316 (636) 639-8256 FAX CONTACT: DAVID GRAVITT</p>	<p><b>GAS SERVICE</b> LACLEDE GAS COMPANY 1999 TRADE CENTER DRIVE EAST ST. PETERS, MO 63376 (636) 978-2663 X-103 CONTACT: AL HERL</p>	<p><b>MoDOT</b> *FIBER OPTICS MAY BE PRESENT 1590 WOODLAKE DRIVE CHESTERFIELD, MO 63017-5712 (314) 340-4100 CONTACT: SCOTTY D. WARD</p>
<p><b>WATER SERVICE</b> PUBLIC WATER SUPPLY DISTRICT #2 OF ST. CHARLES COUNTY 100 WATER DRIVE O'FALLON, MO 63366 (636) 561-3737 X-120 CONTACT: BILL SHIRLEY</p>	<p><b>SBC</b> 402 N. 3RD ST. GROUND FLOOR ST. CHARLES, MO 63301 (636) 949-1312 CONTACT: KATHY SMITH</p>	<p><b>SANITARY SEWER</b> DUCKETT CREEK SANITARY DISTRICT 3550 HIGHWAY K ST. CHARLES, MO 63304 (636) 441-1244 CONTACT: CHRISTINE M. BEASLEY</p>	

## Duckett Creek Sanitary District Construction Notes

- Underground utilities have been plotted from available information and therefore location shall 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 any grading or construction of improvements.
- Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary and storm sewers, including house laterals.
- All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match preconstruction conditions.
- All fill including places under proposed storm and sanitary sewer lines and paved areas including trench backfills within and off the road right-of-way shall be compacted to 90 percent of maximum density as determined by the "Modified AASHTO T-180 Compaction Test (ASTM D1557)". All tests shall be verified by a Soils Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be free of rutting and shall be non-yielding and non-pumping during proofrolling and compaction.
- The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
- All sanitary sewer flowlines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor.
- Easements shall be provided for all sanitary sewers, storm sewers and all utilities on the record plat.
- All sanitary sewer construction and materials shall conform to the current construction standards of the Duckett Creek Sanitary District.
- The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination inspection.
- All sanitary sewer building connections shall be designed so that the minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding building connection shall not be less than the diameter of the pipe plus the vertical distance of 2-1/2 feet.
- All sanitary sewer manholes shall be waterproofed on the exterior in accordance with Missouri Dept. of Natural Resources specification 10 CSR-8.120(7)(E).
- All PVC sanitary sewer pipe shall conform to the requirements of ASTM D-3034 Standard Specification for PSM Polyvinyl Chloride Sewer Pipe, SDR-35 or equal, with "clean" 1/2 inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
- All sanitary and storm sewer trench be water jetted. Granular backfill will be used under pavement areas.
- All pipe crossings shall be grouted rip-rap as directed by District inspectors. (All grout shall be high slump ready-mix concrete.)
- Brick shall not be used on sanitary sewer manholes.
- Existing sanitary sewer service shall not be interrupted.
- Maintain access to existing residential driveways and streets.
- Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot/mission-type couplings will not be allowed.
- Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.
- "Type N" Lock-Type Cover and Locking Device (Lock-Lug) shall be used where lock-type covers are required.

## Abbreviations and Legend

AREA LIGHT	N	NORTH
ELECTRIC PEDESTAL	S	SOUTH
FLARED END SECTION	E	EAST
STORM SEWER STRUCTURE	W	WEST/WIDE
FIRE HYDRANT	FL	FLOW LINE
STORM MANHOLE	STM/ST	STORM
SANITARY MANHOLE	SAN/SA	SANITARY
SIGN	MH	MANHOLE
TRANSFORMER	PB	PLAT BOOK
DECIDUOUS TREE	DB	DEED BOOK
ELECTRIC MANHOLE	PG	PAGE
ELECTRIC PEDESTAL	ESMT	EASEMENT
TV PEDESTAL	R/W	RIGHT OF WAY LINE
POWER POLE	IP	IRON PIPE
	EX	EXISTING
	ATG	ADJUST TO GRADE
	TBR	TO BE REMOVED

(A)	NEW SANITARY SEWER MANHOLE	DCSD	DUCKETT CREEK SANITARY
(GI-1)	NEW STORM SEWER STRUCTURE	FINISH SPOT ELEVATION	(ELEVATION)
(CI-1)	EXISTING STORM SEWER STRUCTURE	EXISTING SPOT ELEVATION	(ELEVATION)

---	NEW WATER LINE
---	NEW STORM SEWER
---	NEW SANITARY SEWER
---	EX FIBER OPTIC LINE
---	EX OVERHEAD ELECTRIC
12"SA	EX SANITARY SEWER WITH SIZE
12"ST	EX STORM SEWER WITH SIZE
12"W	EX WATER LINE WITH SIZE

## Keyed Notes

- NEW PRIMARY UNDERGROUND ELECTRIC SERVICE. CONTRACTOR TO PROVIDE AND INSTALL 2-4" PVC CONDUIT. AMEREN UE TO PROVIDE AND PULL CONDUCTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION.
- NEW TRANSFORMER. AMEREN UE TO PROVIDE AND INSTALL THE TRANSFORMER AND CONCRETE PAD (VERIFY SIZE). CONTRACTOR TO PROVIDE A BASE OF GRANULAR MATERIAL OVER COMPACTED BACKFILL.
- NEW (1) 4" PVC CONDUIT FOR TELEPHONE SERVICE. CONNECT TO CLOSEST AVAILABLE SOURCE. CONTRACTOR TO BE RESPONSIBLE FOR ALL MATERIAL AND INSTALLATION OF PVC CONDUIT AND PULL STRING.
- NEW 6" WATER MAIN EXTENSION PER PWS# 02 OF ST. CHARLES COUNTY STANDARDS AND SPECIFICATIONS.
- RELOCATE EXISTING FIRE HYDRANT AND APPURTENANCES AS SHOWN. SET OUTLET TO FACE STREET ON ACCESS DRIVE. SET 6" CLEAR OF PLANTINGS, BUSHES, TREES, SIGNS, LIGHT STANDARDS, AND WALLBOXES.
- ENCASE WATER MAIN ACCESS SEWER EXTENSION FOR 10' EITHER SIDE REFER TO DETAIL ON SHEET C-5.
- NEW 2" WATER SERVICE LINE WITH METER TO BE INSTALLED PER PWS# 02 STANDARDS AND SPECIFICATIONS.
- NEW GREASE AND OIL INTERCEPTORS (2-750 GALLON MINIMUM). ALL MATERIAL AND INSTALLATION BY CONTRACTOR.
- NEW 6" PVC SANITARY LATERAL AT 2% MINIMUM SLOPE AND 3' MINIMUM COVER. ALL MATERIAL AND INSTALLATION BY CONTRACTOR.
- SEWER CLEANOUT WITH CAST IRON FRAME AND SOLID TOP. REFER TO DETAIL ON SHEET C-7.
- NEW UNDERGROUND NATURAL GAS SERVICE, SIZED BY UTILITY CO. CONNECT TO NEAREST AVAILABLE SOURCE.
- NEW GAS METER.
- EXISTING ELEC BOX. COORDINATE WITH UTILITY COMPANY TO DETERMINE WHO ADJUSTS TO GRADE.
- EXISTING SANITARY MANHOLE TO BE REMOVED.
- NEW 6" PVC SANITARY LATERAL AT 2.00% MINIMUM.
- NEW 4" PVC VENT LINE. REFER TO PLUMBING PLAN.
- REMOVE 15' OF EXISTING 8" PVC SANITARY SEWER.
- NEW 6" VALVE AND BOX FOR FIRE HYDRANT. REFER TO DETAIL ON SHEET C-5.