

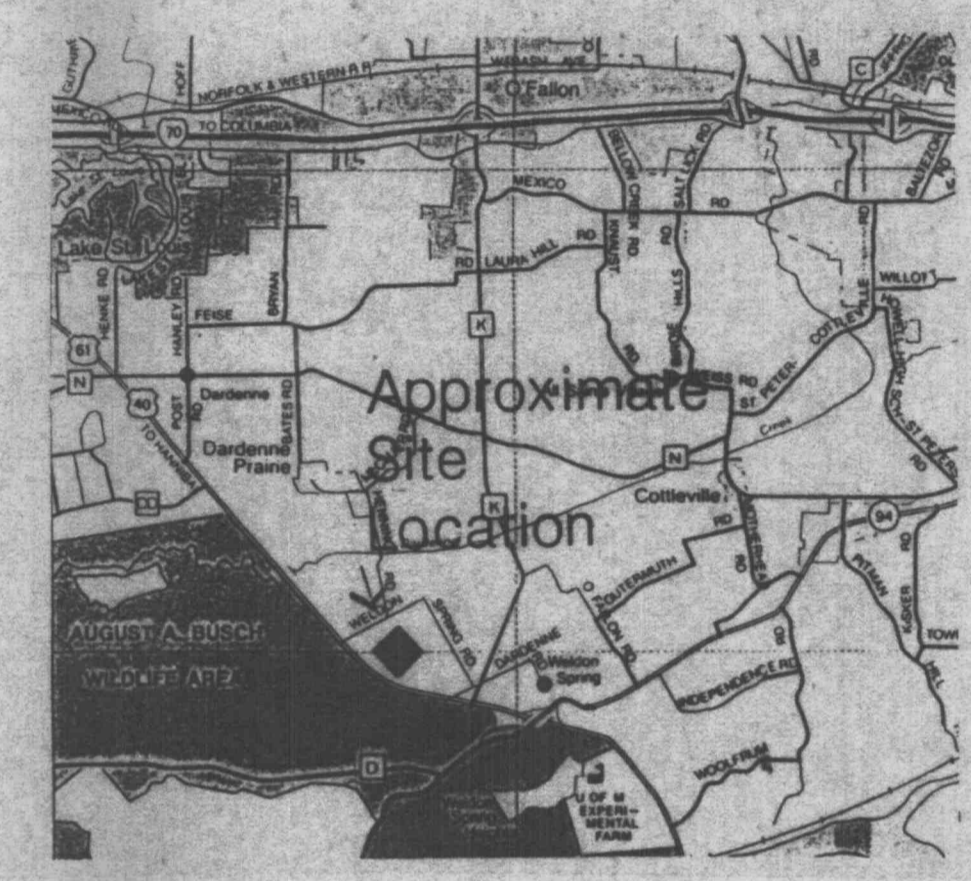
KING TECHNOLOGY INC.

APPROVED
 Contingent on:
 1) Addressing planning comments.
 2) Construct energy dissipater @ FE 0.
 Jim King
 12-8-95

CITY OF O'FALLON 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.
 - Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipes and Fittings, SDR-35.
 - Storm sewers 18" in diameter or smaller shall be ASTM C-14-62, class II.
 - Storm sewers 21" in diameter or larger shall be ASTM C-76, Class II.
 - All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class II) unless noted otherwise in the plans.
 - Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M-36, A.A.S.H.O. See plans for gauge.
 - All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.O. T-100 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a soils engineer.
 - All earthen filled places within State, County, or City roads (Highways) shall be compacted to 93% of maximum density as determined by the "Standard Proctor Test A.A.S.H.O. T-99" (ASTM D-698) unless otherwise specified by local governing authority specifications. All tests will be verified by a soils engineer.
 - All storm and sanitary trench backfills shall be water jetted. Granular fill will be used under paved 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.
 - No area shall be cleared without the 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.
 - Hazard markers will consist of three (3) standard specification, "Manual on Uniform Traffic Control Devices," and 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 manhole and curb inlet 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 lines, all curb and grate inlets will be sewer construction, the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
 - All standard street curb inlets to have front of inlet 2 feet behind curb.
 - The minimum vertical distance from the low point of the basement to the bottom 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 and one-half feet (2-1/2').
 - 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 sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
 - All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
 - All PVC sanitary sewer pipe shall be DR-35 or equal with crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 12" above the top of the pipe.
 - All grading on Missouri State Highway Right-of-Way shall be seeded and mulched and all disturbed Right-of-Way markers shall be reset at the completion of grading.
 - All streets must meet the specifications and installation requirements of the City of O'Fallon.
 - All sanitary manholes top shall be set 0.1' higher than the proposed ground except in pavement areas.
 - All sanitary manholes shall have a 31 mil thick coat of coal tar pitch waterproofing.
 - All sanitary service lines shall have a 6" diameter for Multi-family and a 4" diameter for single-family developments.
 - Manhole frame and cover shall be Clay and Bailey No. 2008 or Heenah R-1736 or Deeter 1315 or approved equal.
 - A drop of 0.2 feet is required through each sanitary and storm manhole.
 - The City of O'Fallon shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
 - Brick shall not be used on manholes.
 - Sewer contractor shall maintain 24" vertical separation between all storm sewers and the sludge force main. Contractor shall be responsible for verifying separation prior to storm sewer installation.
 - Waterproofing: Waterproofing will be required on the exterior of all manholes. The bitumen shall consist of two coats of asphalt, coat-for-pitch, or a coating meeting American Society for Testing and Materials (ASTM) D-41. Asphalt shall conform to the requirements of ASTM D 449. Coat-for-pitch shall conform to the requirements of ASTM D-450. Coating shall be 31 mils thickness.
- NOTE:** The grading and elevations shown on the grading plans are for construction purposes only. Finished grades and slopes will vary from those shown on the plans depending upon the location, size and type of house built on the lot. However, care should be taken to insure that finished grading conforms to drainage area maps.

LOCATION MAP



DRAWING INDEX

Sheet	Description
1	COVER SHEET
2	SITE PLAN
3	GRADING PLAN
4	SEWER PROFILES + DETAILS
5	DRAINAGE AREA MAP

LEGEND

	Sanitary Sewer (Proposed)		R.C.P. Reinforced Concrete Pipe
	Sanitary Sewer (Existing)		C.M.P. Corrugated Metal Pipe
	Storm Sewer (Proposed)		C.I.P. Cast Iron Pipe
	Storm Sewer (Existing)		P.V.C. Polyvinyl Chloride
	Water Line & Size		V.C.P. Vitrified Clay Pipe
	Existing water line		Double Water Meter Setting
	Tee & Valve		Single Water Meter Setting
	Hydrant		C.I. Curb Inlet
	Cap		S.C.I. Skewed Curb Inlet
	18 Lot or Building Number		D.C.I. Double Curb Inlet
	Existing Fence Line		G.I. Grate Inlet
	Existing Tree Line		A.I. Area Inlet
	Street Sign		D.A.I. Double Area Inlet
	Existing Contour		C.C. Concrete Collar
	Proposed Contour		F.E. Flared End Section
	Grouted Rip-Rap		E.P. End Pipe
	End of Lateral		E.D. Energy Dissipator
	Asphalt Pavement		M.H. Manhole
	Concrete Pavement		C.P. Concrete Pipe

UTILITY COMPANIES

- T.C.I. Cable Company
4160 Old Mill Parkway
St. Peters, MO 73376
Attn: Mr. Rick Macias
Phone: (314) 441-7737
- Southwestern Bell Telephone Co.
402 N. Third
St. Charles, MO 63301
Attn: Mr. Bill Bostic
Phone: 949-1320
- Union Electric Company
200 Callahan Road
Wentzville, MO 63385
Attn: Mr. Ralph Crank
Phone: (314) 327-6203
- St. Charles County Water District No. 2
100 Water Drive
O'Fallon, MO 63366
Attn: Mr. Robert Trader
Phone: (314) 625-3737
- St. Charles Gas Corporation
#1 Westbury Square
Building "D"
St. Charles, MO 63301
Attn: Mr. Gene Bohler
Phone: (314) 946-8937
- Duckett Creek Danitary District
2950 Greens Bottom Road
St. Charles, MO 63303
Attn: Mr. Mike O'Brien
Phone: (314) 441-1244
- Cottleville Fire Protection
1385 Motherhead Road
P.O. Box 385
Cottleville, MO 63338
Attn: Mr. Mark Boehle
Phone: (314) 447-6655
- City of O'Fallon (Zoning)(Storm Sewer)
138 South Main
O'Fallon, MO 63366
Phone: (314) 240-2000

SITE BENCHMARK

- RM 37 CHISLED SQUARE ON NE CORNER OF WELDON SPRING ROAD BRIDGE OVER SCHÖTE CREEK. (FROM FIRM MAP 12/15/92 #29183C0105 D). ELEVATION 506.71
- TBM 60D NAIL IN EASTERLY FACR OF POWER POLE @ NW QUAD. OF HWY 40-61 & ENTRANCE TO TEE-KAY MOBILE HOME PARK. ELEVATION: 579.41

GENERAL CONTRACTOR

ENGINEERS AUTHENTICATION
 The responsibility for professional engineering liability on this project is hereby limited to the seal of plans and specifications attached. Responsibility is disclaimed for all other engineering plans involved in the project and specifications include releases after this date unless reauthenticatd.
 PICKETT, RAY & SILVER, INC.
 HAROLD J. BARTON
 LICENSE NUMBER E-17751

KEYSTONE COMPANIES
 12400 OLIVE BLVD., SUITE 565
 ST. LOUIS, MO 63141
 314-576-5200
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DRAWN DD	DATE 8/4/95	1
CHECKED	DATE	
REV. 8-11-95	PROJECT # 192.003	5

LOOMIS BOULTON PICKETT

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