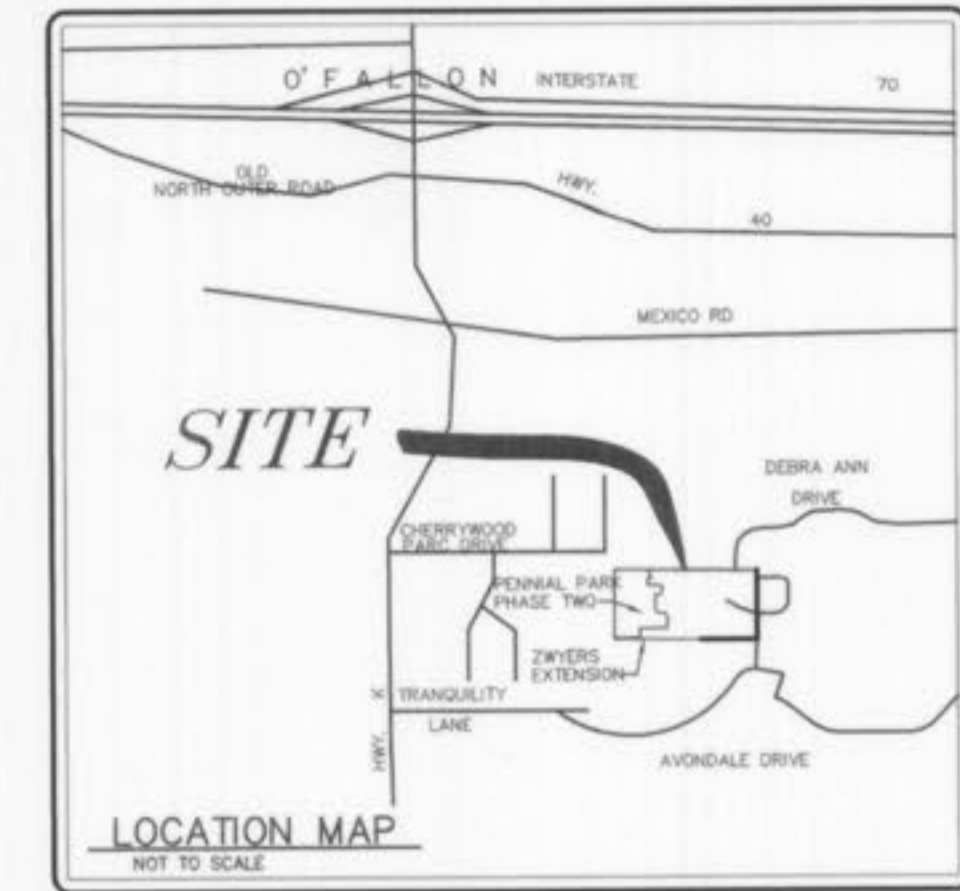


**GENERAL NOTES**

- Underground utilities have been plotted from available information and therefore their locations 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 the improvements.
- The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
- All trash and debris on site, either existing or from construction, must be removed and properly disposed of off-site.
- Easements shall be provided by separate document.
- All construction and materials shall conform to the current construction standards of Duckett Creek Sanitary District.
- The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination and inspection.
- All sanitary sewer manholes shall be waterproofed on the exterior in accordance with Missouri Department of Natural Resources specification 10 CSR-8.120(7)(E).
- 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 PVC sanitary sewer pipe shall conform to the requirements of A.S.T.M.-D-3034 Standard Specification for PSM Polyvinyl Chloride Sewer Pipe, SDR-35 or equal, with wall thickness compression joint A.S.T.M.-D-3212, 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.
- An appropriate rubber seal watertop as approved by the sewer district shall be installed between P.V.C. pipe and masonry structures.
- Brick shall not be used on sanitary sewer manholes.
- Existing sanitary sewer service shall not be interrupted.
- All manhole tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
- All pipes shall have positive drainage through manholes. No flat base structures are allowed.
- All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
- Pre-manufactured adapters shall be used at all P.V.C. to D.I.P. connection. 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.
- All creek crossings shall be grouted rip-rap as directed by District inspectors.
- All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match preconstruction conditions.
- All property owners affected by this project shall be notified at least 48 hours prior to construction.

# A SET OF AS-BUILT PLANS FOR ZWYERS/KAPLAN EXTENSION

A TRACT OF LAND BEING PART OF FRACTIONAL SECTION 4,  
TOWNSHIP 46 NORTH, RANGE 3 EAST  
OF THE FIFTH PRINCIPAL MERIDIAN,  
CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI



**VEGETATIVE ESTABLISHMENT**  
For Urban Development Sites  
APPENDIX A

**Seeding Rates:**  
Permanent:  
Tall Fescue - 30 lbs./ac.  
Smooth Brome - 20 lbs./ac.  
Combined Fescue @ 15 lbs./ac. and Brome @ 10 lbs./ac.  
Temporary:  
Wheat or Rye - 150 lbs./ac. (3.5 lbs. per square foot)  
Oats - 120 lbs./ac. (2.75 lbs. per square foot)

**Seeding Periods:**  
Fescue or Brome - March 1 to June 1  
August 1 to October 1  
Wheat or Rye - March 15 to November 1  
Oats - March 15 to September 15

**Mulch Rates:** 100 lbs. per 1,000 sq. feet (4,356 lbs. per acre)

**Fertilizer Rates:** Nitrogen 30 lbs./ac.  
Phosphate 30 lbs./ac.  
Potassium 30 lbs./ac.  
Lime 600 lbs./ac. ENM\*

\* ENM = effective neutralizing material as per State evaluation of quarried rock.

**LEGEND**

CL	CURB INLET	☆	STREET LIGHT
D.C.I.	DOUBLE CURB INLET	---	EXISTING CONTOUR
A.I.	AREA INLET	- - -	PROPOSED CONTOUR
M.H.	MANHOLE	SxS	STREET SIGN
F.E.	FLARED END SECTION	---	NO PARKING SIGN
E.P.	END PIPE	W	WATER VALVE
C.P.	CONCRETE PIPE	B.O.	BLOW OFF ASSEMBLY
R.C.P.	REINFORCED CONCRETE PIPE		
C.M.P.	CORRUGATED METAL PIPE		
C.I.P.	CAST IRON PIPE		
P.V.C.	POLY VINYL CHLORIDE (PLASTIC)		
C.O.	CLEAN OUT		
⊕	FIRE HYDRANT		
⊕	STORM SEWER		
⊕	SANITARY SEWER		

**REFERENCE BENCHMARK**

R.M. #74 - ELEV.=493.07 (U.S.G.S. DATUM)  
CHISELED SQUARE ON TOP OF EAST CONCRETE  
HEADWALL OF BIRDIE HILLS ROAD BRIDGE OVER  
TRIBUTARY NO. 2. (APPROXIMATELY 500 FEET  
SOUTH OF EISENHOWER DRIVE)

**SITE BENCHMARK**

ELEV.=572.28 (U.S.G.S. DATUM)  
OLD CROSS CL-CL SWEETBAY DRIVE AND  
CHERRYWOOD PARK DRIVE. CHERRYWOOD  
PARK SUBDIVISION

**NOTE: INSPECTION MUST BE 90% COMPLETED  
AND PASSED ON EXISTING SEWERS PRIOR  
TO NEW DEVELOPMENT CONNECTION.**



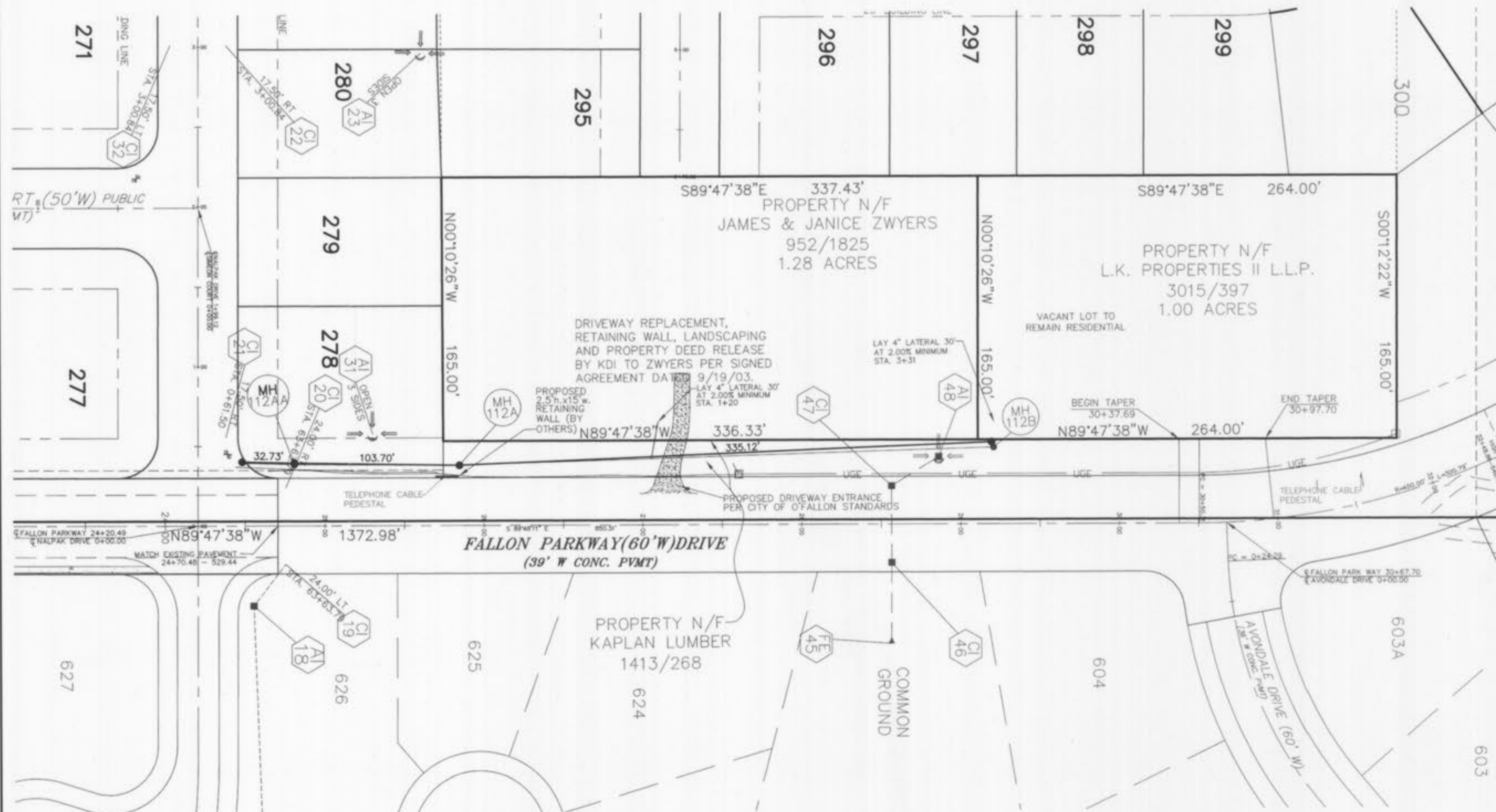
CALL BEFORE  
YOU DIG!  
1-800-DIG-RITE

**SEWER MEASUREMENTS**

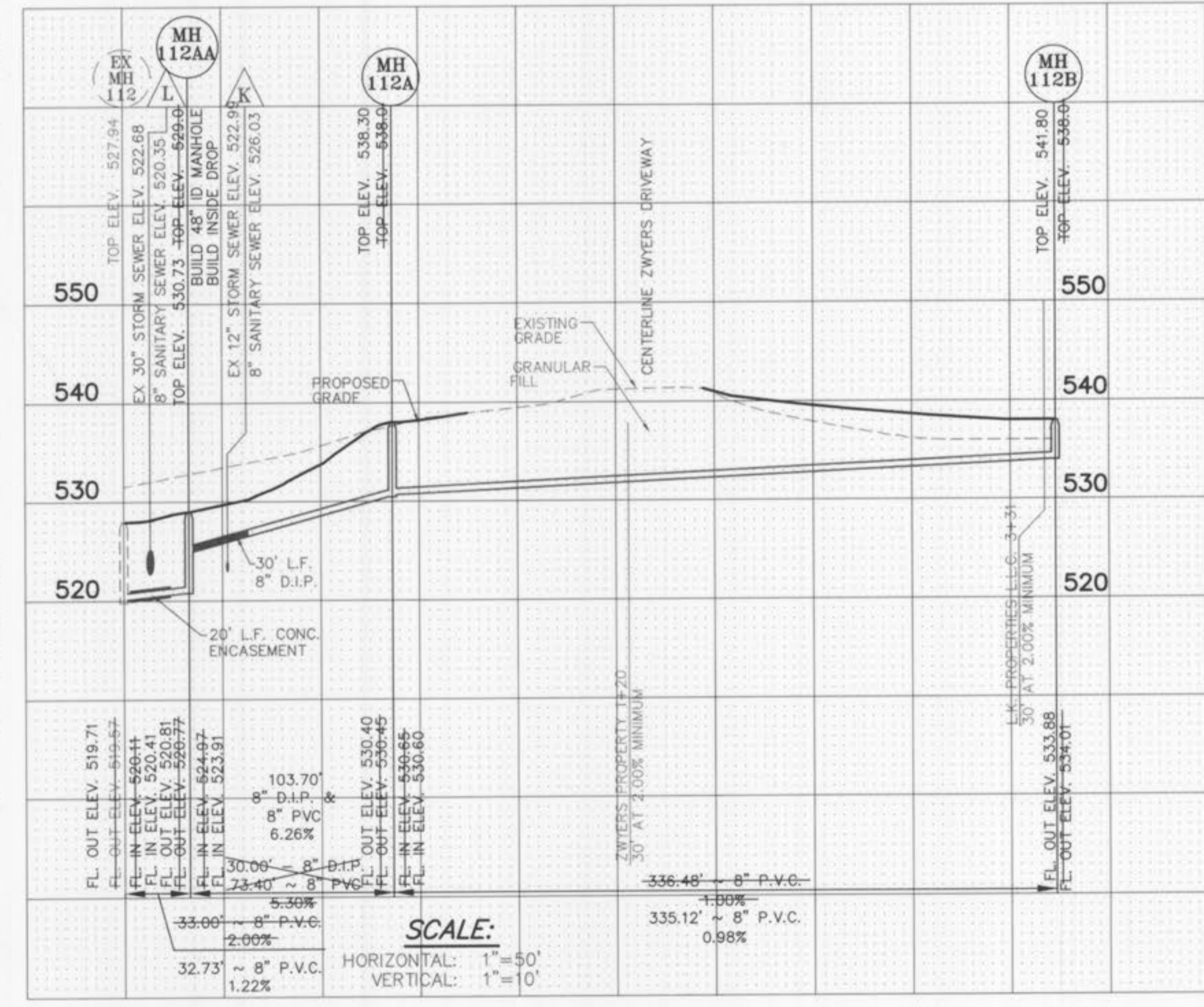
THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND SEWERS AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS.

ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS FOLLOWS:

SIGNED:   
P.E./L.S. DATE: 4/26/08



**PLAN VIEW**  
1"=50'



**PROFILE**

**SCALE:**  
HORIZONTAL: 1"=50'  
VERTICAL: 1"=10'

ZWYERS/KAPLAN EXTENSION

PREPARED FOR: KAPLAN DEVELOPMENT COMPANY  
5140 NORTH SERVICE ROAD  
ST. PETERS, MISSOURI 63376  
(636) 397-4471

DISCLAIMER OF RESPONSIBILITY  
I hereby certify that the documents intended to be distributed by my seal are limited to the work and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.



REVISIONS

02-20-08	AS-BUILTS ADDED
----------	-----------------

**B374**  
ENGINEERING  
PLANNING  
SURVEYING  
1052 South Cloverleaf Drive  
St. Peters, MO. 63376-6445  
314-928-5552  
FAX 928-1718

02-20-08  
DATE  
96-8791-1  
PROJECT NUMBER  
1 OF 1  
SHEET OF  
8791-ASB-ZWYER  
FILE NAME  
ADB DRO  
DRAWN CHECKED