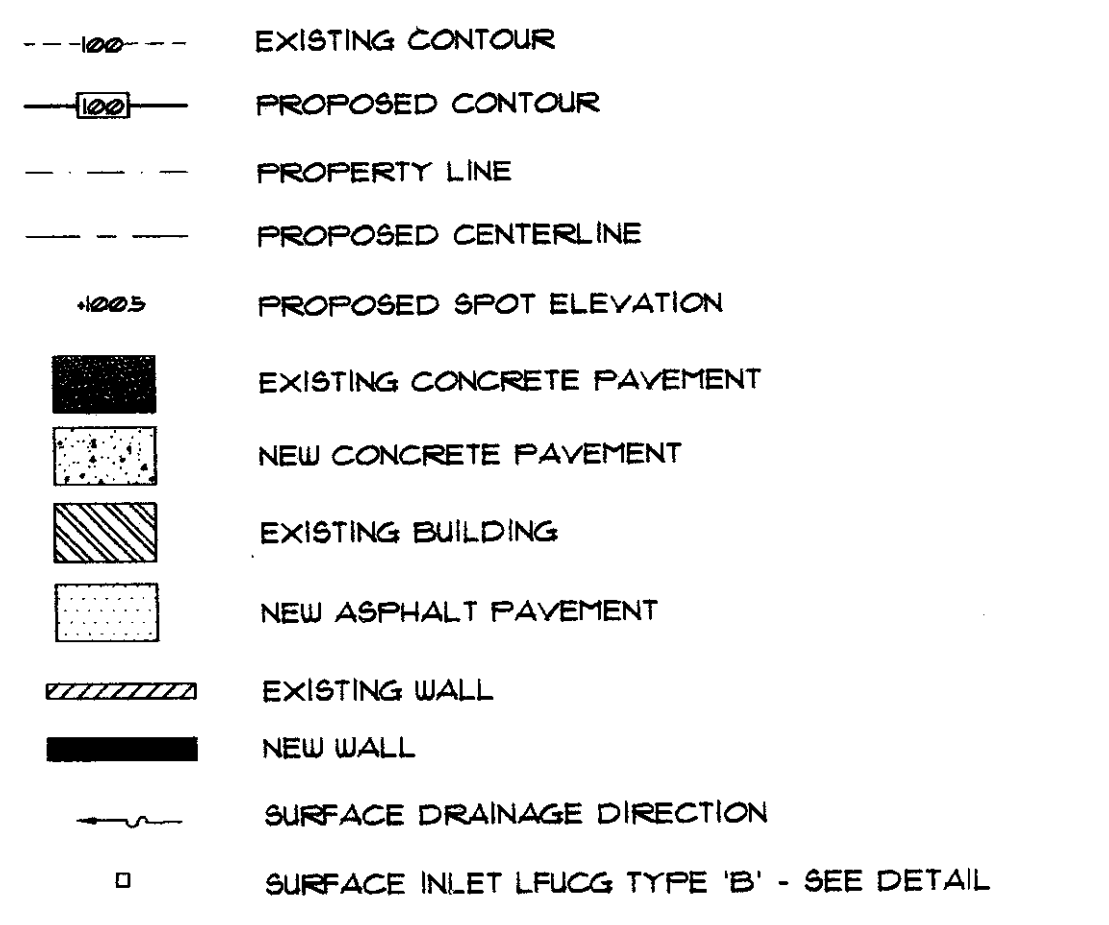
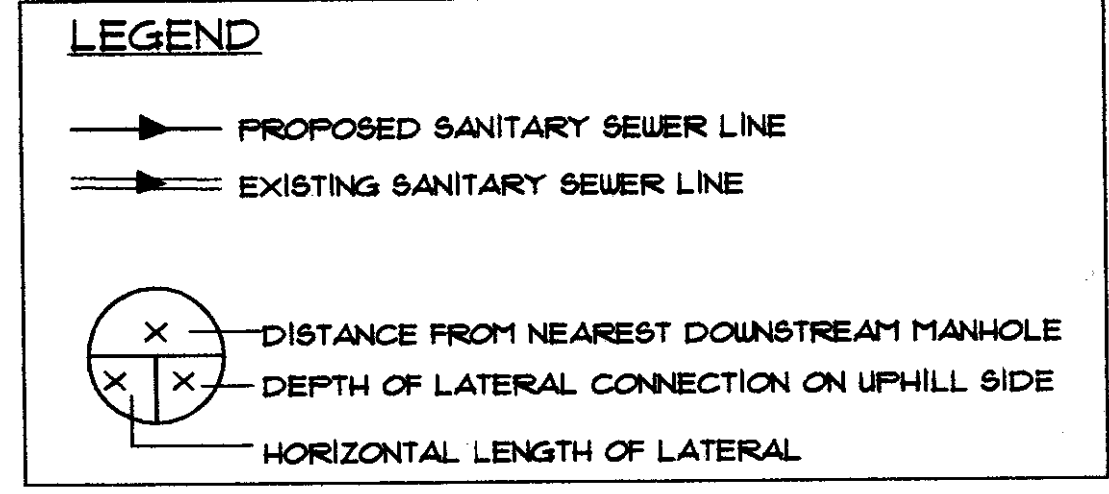


COORDINATES FOR MANHOLE LOCATIONS

MANHOLE I.D.	NORTHING	EASTING
MH 1A	5380.2	10153
MH 2A	5321.3	10260.1



NOTE: PLAN SCALE VARIES FROM PROFILE SCALE.

CAUTION: NUMEROUS EXISTING UTILITIES, WATER LINES, AND STORM SEWER PIPES RUN IN THE VICINITY OF PROPOSED SANITARY SEWER WORK. CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO COMMENCING EXCAVATION. COORDINATE ALL WORK WITH RESPECTIVE UTILITY COMPANIES.

**SANITARY SEWER CONSTRUCTION NOTES**

- CONSTRUCT 8" ON SITE SEWER MAIN LINE EXTENSION AND 6" LATERALS PER LINES, GRADES AND STANDARD DRAWINGS IN THESE PLANS.
- EXERCISE EXTREME CAUTION DURING ALL PHASES OF CONSTRUCTION TO ENSURE THAT ALL CONNECTIONS ARE WATERTIGHT AND DO NOT LEAK. THE CONNECTION IS TO A TRUNK SEWER LINE WITH ACTIVE FLOWS. CONTRACTOR SHALL COORDINATE ALL WORK WITH LFUG DIVISION OF SANITARY SEWERS AND TRAFFIC. CONTACT BOB BOHMAN @ (606) 425-2450.
- SANITARY SEWER PIPE MATERIAL SHALL BE AS NOTED ON THE PROFILES.
- MANHOLE AND PIPE MATERIAL INSTALLATIONS SHALL CONFORM TO THE STANDARDS OF THE KYDOW AND THE LFUGS.
- ALL SANITARY SEWER LINES HAVE BEEN TESTED BY THE CONTRACTOR AS REQUIRED BY THE KYDOW & LFUGS AND WITNESSED BY THE ENGINEER. THIS INCLUDES LOW-VOLTAGE TEST, VAC TEST ON MANHOLES, TV SURVEY AND MANDRELL.
- ALL SANITARY SEWER LATERAL LINES SHALL ALSO BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR COVERING OF THE PIPES.
- ALL SANITARY SEWERS SHALL BE PLACED IN 14" STONE BEDDING PER STANDARD DETAILS.
- ALL MANHOLE COVERS WITHIN ANY DRAINAGE AREA SHALL BE WATER TIGHT COVERS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP "AS-BUILT" INFORMATION REGARDING THE DEPTH AND DISTANCES FROM MANHOLES OF ALL SANITARY LATERALS AS WELL AS THE 6" SANITARY SEWER LINES AND MANHOLES.
- ALL LATERALS SHALL BE 8" PVC SDR35 UNLESS OTHERWISE NOTED. ALL LATERALS SHALL BE BEDDED AND BACKFILLED IN THE SAME MANNER AS THE SEWER MAIN. MINIMUM SLOPE OF THE LATERALS SHALL BE 1/8"'.  
 11. REQUIRED FILL UNDER SANITARY SEWER LINES SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.  
 12. A 6" LENGTH OF 1/2" REBAR SHALL BE PLACED AT THE END OF ALL LATERALS FOR FUTURE LOCATION.  
 13. PVC PIPE MATERIALS AND JOINTS SHALL BE SDR 35 AND CONFORM TO ASTM D3034, OR LATEST REVISION.  
 14. BOTTOM SLAB OF MANHOLES SHALL BE SPECIALLY DESIGNED WITH REGARD TO AREA, THICKNESS AND REINFORCING IN SITUATIONS WHERE HIGH WATER TABLE OR UNSTABLE SOIL CONDITIONS EXIST.  
 15. MANHOLE STEPS SHALL BE INSTALLED IN A VERTICAL LINE AND SHALL COMPLY WITH OSHA STANDARDS IN ALL RESPECTS.  
 16. ALL FLOORS OF MANHOLES SHALL SLOPE AT LEAST 1" PER FOOT FROM WALL TO CHANNELS AND SHALL HAVE SMOOTH FLOAT AND BRUSH FINISH. SPECIAL CONSIDERATION SHALL BE MADE TO PROVIDE SMOOTH FLOWING INVERTS IN ALL INSTANCES.  
 17. ELEVATIONS OF PIPES IN MANHOLES SHALL BE SUCH THAT THE TOP OF ALL INFLUENT PIPES WILL BE AT AN ELEVATION EQUAL TO OR GREATER THAN THE TOP OF THE EFFLUENT PIPE.  
 18. CHANNEL SURFACE OF MANHOLES FROM INLET TO OUTLET SHALL HAVE SMOOTH FLOAT AND BRUSH FINISH.  
 19. VISIBLE LEAKS IN MANHOLES OBSERVED DURING CONSTRUCTION OR INSPECTION SHALL BE CORRECTED BY THE CONTRACTOR.  
 20. BASE OF MANHOLES GREATER THAN 12' DEEP TO BE REINFORCED WITH #4 BARS AT 12" BOTH WAYS.  
 21. WHERE THE DIFFERENCE IN ELEVATION BETWEEN INCOMING SEWER AND MANHOLE INVERT IS LESS THAN 24", THE INVERT SHOULD BE FILLETED TO PREVENT SOLIDS DEPOSITIONS.  
 22. SHOULD CONFLICT OR DISCREPANCY OCCUR CONTACT THE A/E @ 606-254-4803.  
 23. MAINTAIN 18" MINIMUM CLEARANCE AT SANITARY PIPE CROSSINGS WHERE POSSIBLE AND 10" HORIZONTAL CLEARANCE WITH ANY WATERLINE.  
 24. COORDINATE ALL WORK AND TIE IN WITH LFUGS DIVISION OF ENGINEERING.  
 25. THE CONTRACTOR SHALL FURNISH THE DESIGN ENGINEER CERTIFIED FIELD SURVEYED HORIZONTAL AND VERTICAL SURVEY INFORMATION AFTER CONSTRUCTION AND INSPECTION FOR THE PREPARATION OF RECORD DRAWINGS.  
 26. CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE ENCROACHMENT PERMIT FROM THE LFUGS, KYDOW SPECIFICATIONS AND THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES WHILE PERFORMING WORK IN THE RIGHT OF WAY. CONTRACTOR SHALL FURNISH FLAGMEN, FLASHING BARRICADES, SIGNAGE, ETC. AS NECESSARY TO PROTECT MOTORIST WORKERS AND PEDESTRIAN SAFETY. CONTRACTOR TO COMPLY WITH LIMITING WORK HOURS, ARRANGE FOR DETOURS, LANE CLOSURES, TEMPORARY STEEL PLATE PLACEMENT, AND ALL OTHER REQUIREMENTS FOR SAFE TRAFFIC CONTROL, REQUIRED BY LFUGS AND KYDOW AS APPLICABLE. CONTRACTOR SHALL CONTACT DAN KISER, DIVISION OF ENGINEERING, (606-254-3410), TO OBTAIN PERMITS IN RIGHT OF WAY AND SUBMIT ALL BONDS OR DEPOSITS FOR COMPLETING WORK.  
 27. CONTRACTOR TO SUBMIT SITE SPECIFIC SHOP DRAWINGS OF ALL PRECAST AND MANUFACTURED ITEMS TO ARCHITECT FOR REVIEW.

**CODED SANITARY SEWER NOTES**

- CONSTRUCT 4" DIAMETER "DOGHOUSE" MANHOLE COVER EXISTING 15" SANITARY SEWER PER DETAILS E5D-B, F75D-B, AND J5D-B TO STRADDLE EXISTING PIPE. FOLLOW THE PROCEDURE SET FORTH IN THE DETAIL. EXCAVATE AROUND AND BELOW 15" PIPE AT CONNECTION POINT SO THAT A REINFORCED CONCRETE BASE CAN BE POURED ON WHICH TO SET THE MANHOLE SECTIONS. ANCHOR SECTION TO BASE AND SEAL ANNUAL SPACE BETWEEN "DOGHOUSE" OPENING AND EXISTING PIPE WITH HYDRAULIC GEMENT. MAKE CONNECTION OF PROPOSED 8" PVC SANITARY SEWER TO MATCH UP TO FORMED INVERT IN MANHOLE. CUT AND REMOVE TOP OF EXISTING PIPE TO OPEN UP IN MANHOLE. CONTRACTOR SHALL CONFORM TO ALL REGULATIONS AND CONSTRUCTION REQUIREMENTS OF LFUGS.
- 4" DIAMETER SANITARY SEWER MANHOLE, DETAIL E5D-B.
- SAWCUT AND REPLACE STREET AT SANITARY SEWER CROSSING AND MANHOLE INSTALLATION PER LFUGS STANDARD DETAIL I5D-B.
- SAWCUT AND REPLACE SIDEWALK AT SANITARY SEWER DETAIL PER LFUGS STANDARD DETAIL.

**GENERAL NOTES**

- CONTRACTOR TO PAY ALL TAP, UTILITY FEES AND SUPPLY BONDS AS APPLICABLE FOR NEW SERVICE LINES TO THIS FACILITY UNLESS DIRECTED OTHERWISE BY OWNER. PER 3-30-04 LETTER FROM LFUGS, ENCROACHMENT PERMIT FEE IS \$60.00 AND CASH BOND IS \$1650.00. CONTRACTOR TO MAKE APPLICATION AND PAY FEES 10 DAYS PRIOR TO COMMENCING WORK.
- REFER TO ALL OTHER APPLICABLE PLANS FOR INSTALLATION OF UTILITIES TO AVOID POTENTIAL CONFLICTS INCLUDING:
  - A - SITE SURVEY
  - B - ARCHITECTURAL PLANS
  - C - MECHANICAL AND ELECTRICAL PLANS
  - D - LANDSCAPE PLANS
 PLEASE ADVISE THE DESIGN CONSULTANT OF ANY POTENTIAL CONFLICTS.
- FEDERAL, STATE, LOCAL MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS, AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- CONTRACTOR TO EXERCISE EXTREME CAUTION WHILE WORKING IN VICINITY OF WATER, GAS MAINS ALONG STREET, AND OVERHEAD UTILITY LINES. MAINTAIN ALL SERVICE TO ADJACENT PROPERTIES.
- ALL SANITARY SEWER, GAS LINES, WATER LINES, AND TELEPHONE CONDUIT UNDER PAVEMENT SHALL BE BACKFILLED WITH COMPACTED GROUND STONE.
- ALL WORK, CONSTRUCTION REQUIREMENTS, AND PERFORMANCE STANDARDS SHALL COMPLY WITH ALL LFUGS STANDARDS AND 2001 DESIGN MANUALS, KENTUCKY DIVISION OF WATER, AND PLUMBING AS APPLICABLE. ALL WORK IN RIGHT OF WAY TO COMPLY WITH KYDOW SPECIFICATIONS.
- ALL TRENCHING AND CONSTRUCTION TECHNIQUES SHALL COMPLY WITH OSHA STANDARDS FOR WORKER SAFETY.
- ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH ALL APPLICABLE PERMITS, STANDARD DRAWINGS, AND LATEST EDITION OF KYDOW SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ENCROACHMENT PERMIT AS APPLICABLE.
- ALL PIPE SHALL BE HANDLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT UNLESS DIRECTED OTHERWISE BY OWNER.
- PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
- LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGNOSTIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS AND UTILITIES MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO WORK ON ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT HE MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSED. CONTRACTOR SHALL CALL B.U.D. 2 WORKING DAYS PRIOR TO COMMENCING WORK FOR LOCATION OF BURIED UTILITY LINES.

**AS-BUILT DRAWING**

DATE 5/17/09

CONTRACTOR TO VERIFY ALL INVERTS, DEPTHS, DIMENSIONS, AND ELEVATIONS OF EXISTING 15" SANITARY SEWER LINE PRIOR TO ORDERING MANHOLE STRUCTURES. SHOP DRAWINGS SHALL REFLECT ACCURATE FIELD VERIFIED MEASUREMENTS.

FOR LOCATION OF UNDERGROUND UTILITIES, CALL B.U.D. 1-800-752-6021 2 WORKING DAYS IN ADVANCE OF DIGGING

**SANITARY SEWER PLAN AND PROFILE**

**UNIVERSITY LOFTS**  
236 Bolivar Street  
Lexington, Kentucky

**JOHN L. CARMAN & ASSOCIATES, INC.**  
310 Old Louisville  
Kentucky 40507 606/254-9803  
Landscape Architecture, Planning, Site Engineering

DRAWN JRC  
DATE 3/1/04  
CHECKED DRP  
REVISED 4/12/04  
JLG #24-116

SHEET  
SD-7