

**LEGEND**

- EXISTING CONTOUR
- EXISTING CATCH BASIN
- EXISTING HEADWALL
- EXISTING STORM PIPE
- EXISTING TOP OF BANK
- EXISTING TOE OF SLOPE/DITCH
- EXISTING RIP RAP
- EXISTING OVERHEAD UTILITY
- OHU
- EXISTING UTILITY POLE
- EXISTING DOWN GUY
- EXISTING WATER LINE
- WM
- WV
- EXISTING WATER METER
- EXISTING FIRE VALVE
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING FENCE
- EXISTING SPOT ELEVATION
- EXISTING CATCH BASIN W/ PIPE
- PROPOSED SAFETY HEADWALL W/ PIPE
- PAVEMENT WIDENING
- FLOW ARROWS
- PAVEMENT LIMIT
- STONE BAG HEADWALL PROTECTION
- STONE BAG INLET PROTECTION

**BENCHMARKS**

NOTE: ALL ELEVATIONS ARE BASED ON NAVD 1988 DATUM & WERE DERIVED FROM LOGIC BENCHMARKS BY MEANS OF GPS METHODS OR DIFFERENTIAL LEVELING.

SOURCE BENCHMARK AZI 049-2004 NAVD 1988 ELEV. 576.96

FROM THE INTERSECTION OF TAYLORSVILLE ROAD AND GENE SNYDER, TRAVEL SOUTHWEST 2.6 MILES ON GENE SNYDER. STATION IS 60.3' NORTH OF THE WESTBOUND LANE SHOULDER OF GENE SNYDER FREEWAY.

BM #908 NAVD 1988 ELEV. 701.33  
 SQUARE CUT ON THE CONCRETE BASE OF A LIGHT POLE LOCATED ±1318' FROM THE INTERSECTION OF GELHAUS LANE AND BILLTOWN ROAD, ±30' FROM THE WESTERN MOST PROPERTY LINE AND 5.5' OFF THE EASTERN MOST EDGE OF ASPHALT ACCESS TO JEFFERSON COUNTY BUS COMPOUND.

BM #950 NAVD 1988 ELEV. 684.98  
 MINE SPIKE IN A UTILITY POLE LOCATED ±1280' FROM THE INTERSECTION OF GELHAUS LANE AND BILLTOWN ROAD, ±300' EAST OF THE INTERSECTION OF GELHAUS LANE AND THE ENTRANCE TO JEFFERSON COUNTY BUS COMPOUND AND 42' SOUTH OF THE SOUTHERN EDGE OF GELHAUS LANE.

BM #1295 NAVD 1988 ELEV. 682.29  
 MINE SPIKE IN A 24" CEDAR LOCATED ±2420' FROM THE INTERSECTION OF GELHAUS LANE AND BILLTOWN ROAD AND ±520' SOUTH OF GELHAUS LANE'S SOUTHERN EDGE OF PAVEMENT.

**STORMWATER POLLUTION PREVENTION PLAN NOTE:**

THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED PRIOR TO ANY LAND- DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED SWPPP PLAN MUST BE REVIEWED AND APPROVED BY MSD'S PRIVATE DEVELOPMENT REVIEW OFFICE. SWPPP BMP'S (BEST MANAGEMENT PRACTICES) SHALL BE INSTALLED PER THE PLAN AND MSD STANDARDS.

DETENTION BASINS, IF APPLICABLE, SHALL BE CONSTRUCTED FIRST AND SHALL PERFORM AS SEDIMENT BASINS DURING CONSTRUCTION UNTIL THE CONTRIBUTING DRAINAGE AREAS ARE SEEDED AND STABILIZED.

ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.

SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE SEED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.

ALL STREAM CROSSINGS MUST UTILIZE LOW-WATER CROSSING STRUCTURES PER MSD STANDARD DRAWING ER-02.

SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.

WHERE CONSTRUCTION OR LAND DISTURBING ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 DAYS AFTER THE ACTIVITY HAS CEASED.

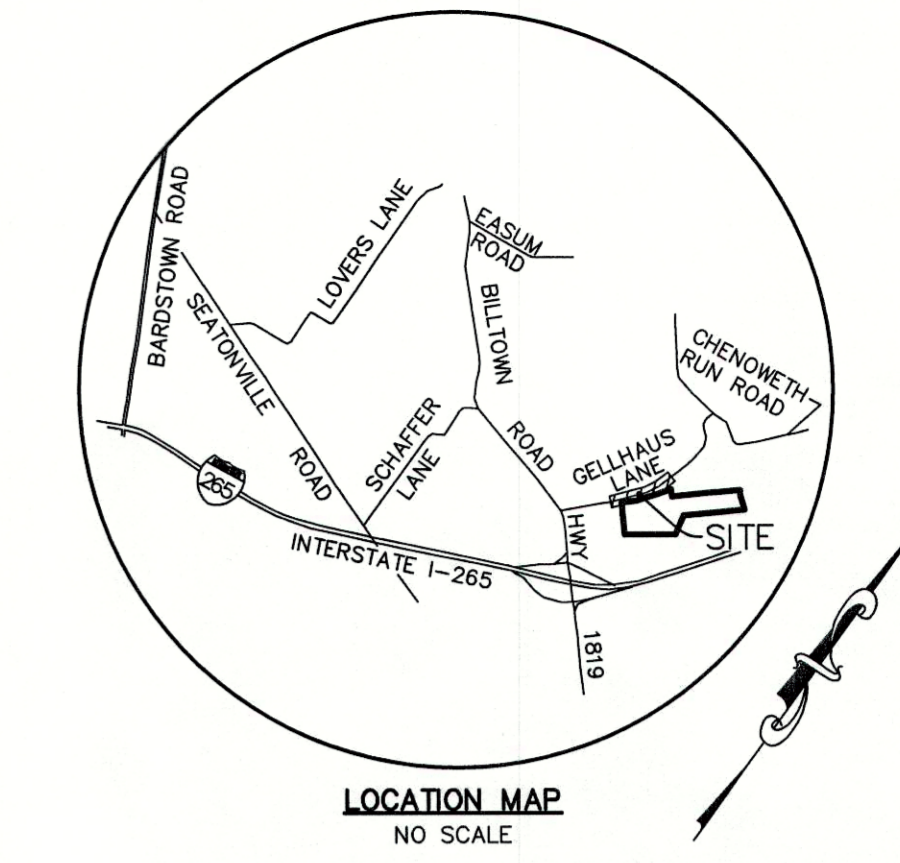
**FLOODPLAIN NOTE**

A PORTION OF THE SUBJECT PROPERTY IS LOCATED IN ZONE AE, WHICH IS AN AREA DETERMINED TO BE INSIDE OF THE 100 YEAR FLOOD PLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAP (FEMA) PANEL NO. 21111C0081-E AND 21111C0098-E. DATED DECEMBER 5, 2006.

**UTILITY NOTE**

ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER KENTUCKY 811 (TOLL FREE PHONE NO. 1-800-752-6007 OR LOCAL NO. 502-266-5123) 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS, AND WATERLINES). WHEN CONTACTING THE KENTUCKY 811 CALL CENTER, PLEASE STATE THAT THE WORK TO BE DONE IS FOR A PROPOSED MSD SEWER OR DRAINAGE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS.

ALL UTILITY RELOCATIONS & ADJUSTMENTS ARE THE RESPONSIBILITY OF THE DEVELOPER



**Mindel, Scott & Associates, Inc.**  
 Planning · Engineering · Surveying · Landscape Architecture  
 Utility Consulting · Property Management  
 Phone: 502-265-1200 Fax: 502-265-1500 Email: msand@msa.com

**MSA**

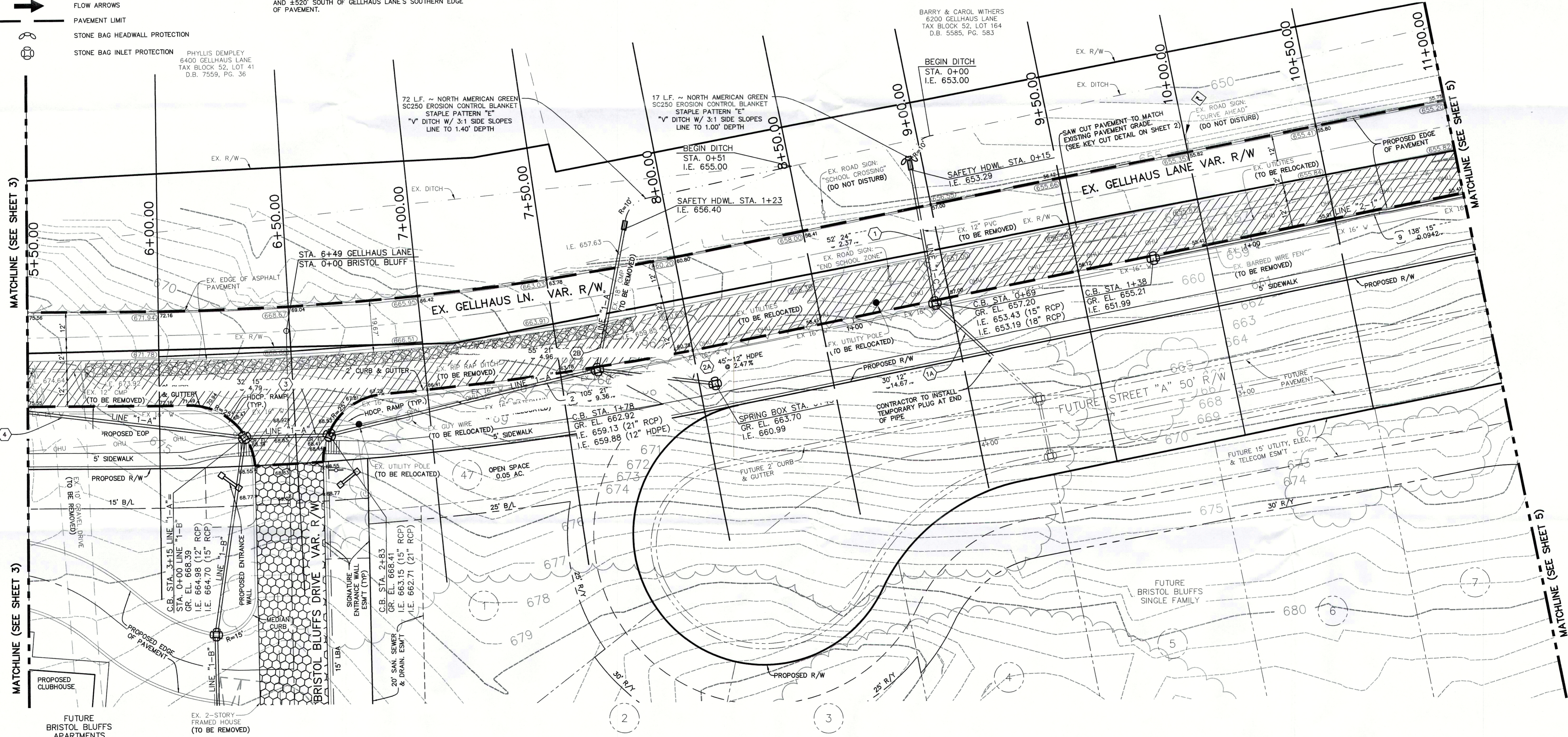
**DEVELOPER**  
 LDG MULTIFAMILY, LLC  
 1473 SOUTH 4TH STREET  
 LOUISVILLE, KY. 40208

**OWNER**  
 WGR DEVELOPMENT LLC.  
 624 W. MAIN STREET  
 LOUISVILLE, KY. 40202

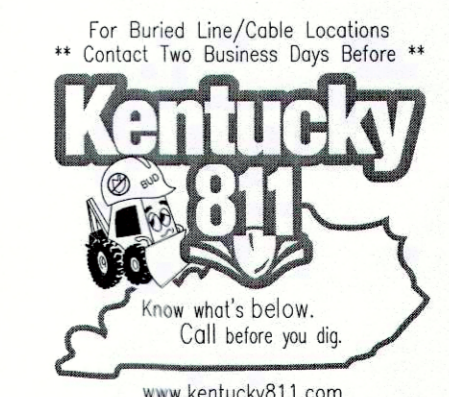
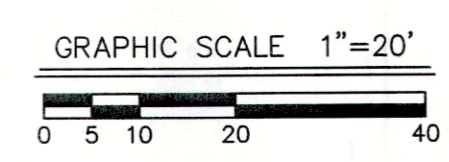
**ROAD WIDENING PLANS**  
**BRISTOL BLUFFS**  
 6203 GELHAUS LANE  
 LOUISVILLE, KENTUCKY 40299  
 GRADING, SWPPP, ROADWAY & STORM LAYOUT;  
 STA. 5+50.00 TO STA. 11+00.00

REVISIONS	DATE	REVISIONS PER MSD COMMENTS

Vertical Scale: N/A  
 Horizontal Scale: 1"=20'  
 Date: 2/14/08  
 Job Number: 2427  
 Sheet  
**4**  
 of 16



**NOTE:**  
 PLEASE SEE BRISTOL BLUFFS "CONSTRUCTION PLANS" FOR DETAILED DESIGN AND CALCULATIONS FOR STORM LINES "1-B", "2-2", & "3".



MSD SUB # 1206  
 DOCKET # 9-36-06 &  
 # 10-28-06

RECEIVED  
 JUN 20 2008  
 PLANNING &  
 DESIGN SERVICES

PROFESSIONAL ENGINEER'S SEAL

ENGINEER: PAT BRENNY