

BM EL. = 365.14
 SPIKE SET IN POWER POLE SOUTH SIDE OF 1ST STREET
 APPROXIMATELY 200' EAST OF CENTERLINE OF U.S.
 HIGHWAY 641.

LEGEND

- PROPERTY BOUNDARY LINE
- EX. OVERHEAD ELECTRIC LINE
- EX. GAS LINE
- RIGHT-OF-WAY
- CENTERLINE OF ROAD
- UTILITY EASEMENT LINE
- EX. WATER LINE
- EX./FUTURE SANITARY SEWER LINE
- EX. TELEPHONE LINE
- EX. FENCE
- EXIST. IRON MARKER AS DESCRIBED
- EX. UTILITY POLE- LIGHT POLE
- EX. WATER VALVE
- EX. FIRE HYDRANT
- POINT AS DESCRIBED
- EX. CONTOUR
- EX. SPOT ELEVATION
- PROPOSED CONCRETE SIDEWALK OR SURFACE
- PROPOSED STORM PIPING, SEE PIPE SCHEDULE
- PROPOSED CONTOUR
- 488.00 Top of Curb El.
- 488.00 Bottom of Curb El.
- PROPOSED SPOT ELEVATION
- STORM SEWER KEY NOTE (See Storm Sewer Schedules, This Sheet)

- ### NOTES
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND DISTRIBUTING NEW TOPSOIL (12" MIN.) IN LANDSCAPE AREAS. SEE SITE PLAN KEY NOTE "G".
 - IMPROPER GRADING/FINISHING OF ALL EXCAVATION AND FILL PLACEMENT WITHIN THE PROJECT LIMITS OR ADJACENT RIGHTS-OF-WAY THAT RESULTS IN DRAINAGE PROBLEMS SHALL BE REMOVED AND REINSTALLED TO IMPLEMENT POSITIVE DRAINAGE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - BENCHMARK INFORMATION AS PROVIDED SHALL BE USED TO CONFIRM EXISTING TOPOGRAPHIC CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ANY CONFLICT AND/OR DISCREPANCIES ENCOUNTERED BETWEEN THE EXISTING TOPOGRAPHY SHOWN AND ACTUAL SITE CONDITIONS SHALL BE REPORTED TO ENGINEER IMMEDIATELY.
 - ALL STORM SEWER PIPE SHALL HAVE A MINIMUM COVER OF 12" OVER THE TOP OF PIPE. CONTRACTOR SHALL PROVIDE MINIMUM COVER IN ALL CASES. IF DISCREPANCIES EXIST IN THE GRADING PLAN OR IF UNSEEN SITE CONDITIONS EXIST THAT WILL NOT ALLOW THIS COVER AS DESIGNED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RECONNAISSANCE AND THIS DETERMINATION PRIOR TO BIDDING THE WORK.
 - ALL STORM SEWER PIPE BENEATH PROPOSED AND EXISTING PAVEMENT SHALL BE BACKFILLED FULL DEPTH WITH COMPACTED DGA. SEE SITE DETAILS.
 - ALL H2O RATED GRATES SHALL RECEIVE CONCRETE COLLARS PER MANUFACTURERS RECOMMENDATIONS.
 - ALL IN-LINE DRAINS SHALL BE BY ADS (ADVANCED DRAINAGE SYSTEMS) OR APPROVED EQUAL.

SURVEY NOTE:
 BOUNDARY & TOPOGRAPHIC INFORMATION SHOWN HEREON WAS TAKEN FROM A SURVEY TITLED "CITY OF BENTON GAS OFFICE TOPOGRAPHICAL SURVEY" BY PAUL CLOUD ENGINEERING, DATED JULY 2010.

STORM SEWER STRUCTURE SCHEDULE

ID. NO.	DESCRIPTION	GRATE	TOP	BOTTOM	REFERENCE DETAIL
ST1	JUNCTION BOX	R-1878-ASL	363.10	360.60	(K) (C-3)
ST2	JUNCTION BOX	R-1878-ASL	363.10	360.60	(K) (C-3)
ST3	DROP BOX INLET	R-1878-ASG	363.10	360.60	(K) (C-3)
ST4	DROP BOX INLET	R-1878-ASG	363.20	361.20	(K) (C-3)
ST5	12" ADS IN-LINE DRAIN	H-20 PERFORATED GRATE	365.50	361.50	(K) (C-3)
ST6	12" ADS IN-LINE DRAIN	H-20 PERFORATED GRATE	365.00	361.50	(K) (C-3)
ST7	12" ADS IN-LINE DRAIN	H-20 SOLID GRATE	364.90	362.50	(K) (C-3)
ST8	8" ADS IN-LINE DRAIN	SOLID GRATE	366.00	363.00	(K) (C-3)

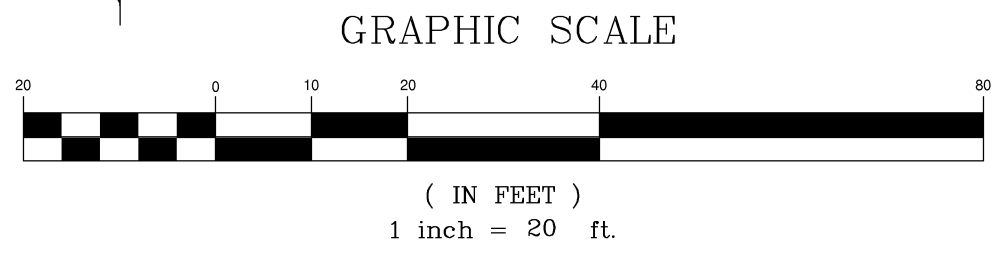
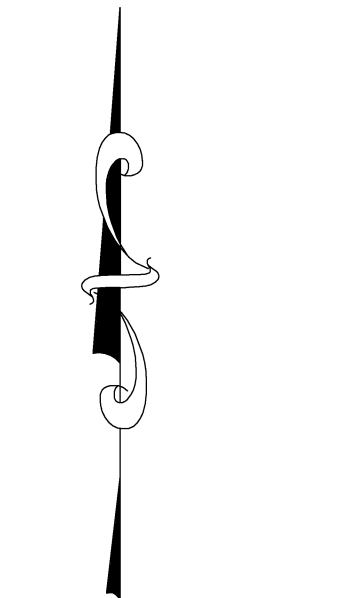
STORM SEWER PIPE SCHEDULE

ID. NO.	DESCRIPTION	LENGTH	I.E. IN	I.E. OUT	SLOPE	REFERENCE DETAIL
P1	18" 14 GA. CMP	36 FT.	360.60	360.60	0.00%	(K) (C-3)
P2	18" 14 GA. CMP	10 FT.	360.60	360.60	0.00%	(K) (C-3)
P3	18" SLOTTED DRAIN	56 FT.	360.60	360.60	0.00%	(K) (C-3)
P4	18" 14 GA. CMP	14 FT.	360.60	360.60	0.00%	(K) (C-3)
P5	18" 14 GA. CMP	14 FT.	360.60	360.60	0.00%	(K) (C-3)
P6	18" SLOTTED DRAIN	15 FT.	360.60	360.60	0.00%	(K) (C-3)
P7	18" END SECTION	-	-	-	-	(K) (C-3)
P8	12" 14 GA. CMP	47 FT.	361.20	360.60	1.28%	(K) (C-3)
P9	12" SLOTTED DRAIN	65 FT.	361.95	361.70	0.38%	(K) (C-3)
P10	12" 14 GA. CMP	25 FT.	362.15	361.95	0.80%	(K) (C-3)
P11	12" SLOTTED DRAIN	40 FT.	362.40	362.15	0.63%	(K) (C-3)
P12	8" H.D.P.E.	45 FT.	361.50	360.60	2.00%	(K) (C-3)
P13	8" H.D.P.E.	100 FT.	362.50	361.50	1.00%	(K) (C-3)
P14	12" H.D.P.E.	45 FT.	361.50	360.60	2.00%	(K) (C-3)
P15	12" H.D.P.E.	105 FT.	362.50	361.50	0.95%	(K) (C-3)
P16	8" H.D.P.E.	50 FT.	363.00	362.50	1.00%	(K) (C-3)
P17	8" H.D.P.E. BLOC. PERIMETER	-	-	-	SLOPE TO DRAIN	(K) (C-3)

SPECIAL NOTE
 THE CONTRACTOR SHALL VERIFY THE ELEVATION OF ALL BURIED EXISTING AND PROPOSED UTILITIES FOR IDENTIFICATION OF CONFLICTS WITH PROPOSED DRAINAGE STRUCTURES AND PIPING AS SHOWN HEREON. ANY CONFLICTS WITH EXISTING OR PROPOSED UTILITIES WITH DRAINAGE STRUCTURES AND PIPING WHICH ARISE AFTER THE INSTALLATION OF PROPOSED DRAINAGE STRUCTURES AND PIPING SHALL BE RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS WITH THE DRAINAGE STRUCTURES AND PIPING.

DOWNSPOUT NOTE:
 CONTRACTOR TO CONNECT ALL DOWNSPOUTS TO COLLECTION PIPING. REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT LOCATIONS AND QUANTITY. REFER TO DETAIL "S", SHT. C-6 FOR DOWNSPOUT CONNECTION DETAIL.

BURIED UTILITIES NOTE
 BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT KENTUCKY 811 OR 1-800-752-6007 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.



Kentucky 811
 Know what's below.
 Call before you dig.
 Call 811 or 800-752-6007
 www.kentucky811.org
 Two Business Days Before You Dig
 IT'S THE LAW

GEOTECH
 ENGINEERING & TESTING, INC.
 500 SOUTH 17th STREET PADUCAH, KY 42003 PHONE: 270-443-1895
 601 NORTH 4th STREET MURRAY, KY 42071 PHONE: 270-532-7307
 4025 NORTH COURT STREET MARION, IL 62959 PHONE: 618-997-9190
 WWW.GEOTECHENGINEERS.NET COPYRIGHT © 2008 - GEOTECH ENGINEERING & TESTING, INC.

castleberry megregor swinford
 ARCHITECTS
 BENTON GAS SYSTEMS
 Project No. 10176

SITE GRADING PLAN - BASE BID

C-2-A
 of 6
 DATE
 8-31-10