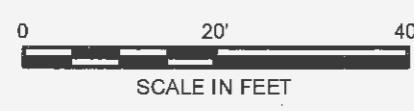


The signed and sealed original of this drawing is on file at the office of The Clayton Engineering Company, Inc. The signed and sealed original is the official document and shall take precedence over any digital version.

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Underground facilities, structures & utilities have been plotted from available surveys, records & information, and therefore, do not necessarily reflect the actual existence, nonexistence, size, type, number of, or location of these facilities, structures, & utilities.

The Contractor shall be responsible for verifying the actual location of all underground facilities, structures, & utilities, either shown or not shown on these plans. The underground facilities, structures, & utilities shall be located in the field prior to any grading, excavation or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 319, RSMo.



SCALE 1"=20'  
 Note: Caution should be taken in comparing the written scale to the graphic scale to ascertain if this plan has been enlarged or reduced.

- ADDITIONAL UTILITY NOTES:**
- INSTALL WATER QUALITY BMP: ONSITE TO TREAT THE STORM WATER RUNOFF FROM THE SITE, PER CITY OF OFALLON STANDARDS.
  - THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY COORDINATION AND SCHEDULING.
  - THE CONTRACTOR SHALL VERIFY DEPTHS OF EXISTING SEWERS THAT ARE PLANNED TO HAVE NEW STRUCTURES BUILT ON THE EXISTING PIPE PRIOR TO HAVING STRUCTURES FABRICATED.
  - THE EXISTING DIRT CHEAP BUILDING HAS A WATER SERVICE CONNECTING TO THE EXISTING WATER MAIN AT THE SOUTHWEST CORNER OF THE PROPERTY. THE WATER TAPS MUST BE DESTROYED BY THE CONTRACTOR, IN ACCORDANCE WITH CITY OF OFALLON WATER DISTRICT STANDARDS.
  - THE EXISTING WATER METER, DOMESTIC WATER AND SANITARY SEWER SERVICES TO THE EXISTING BUILDING TO BE RENOVATED SHALL REMAIN IN USE, UNLESS THEY ARE FOUND IN CONFLICT WITH THE NEW IMPROVEMENTS (PAVEMENTS, WALL, STORM PIPE, ETC.), THEN REPLACE AS NECESSARY.
  - MINIMUM VERTICAL CLEARANCE BETWEEN WATER LINES AND SANITARY/STORM SEWERS SHALL BE 24-INCHES. CONCRETE ENCASE WATER LINES WHEN CLEARANCE IS NOT POSSIBLE.
  - MINIMUM WATER LINE DEPTH SHALL BE 42-INCHES WITH A MAXIMUM OF 72-INCHES. THE NEW MAIN SHALL BE INSTALLED AT THE PROPER DEPTH FOR THE NEW FINISH GRADES SHOWN ON THESE PLANS.
  - THE EXISTING UTILITY POLES AND OVERHEAD ELECTRIC & TELEPHONE WIRES ARE THE RESPONSIBILITY OF THE CONTRACTOR FOR RELOCATIONS. ONSITE ELECTRIC AND TELEPHONE SHALL BE INSTALLED UNDERGROUND. THE CONTRACTOR MUST COORDINATE WITH THE CITY, MODOT, AMEREN MISSOURI, AT&T, AND ANY ADDITIONAL COMPANIES WHO HAVE WIRES ON THESE POLES, PRIOR TO ANY WORK IN THIS AREA. NEW UTILITY POLE LOCATIONS AND OVERHEAD WIRES SHOWN ON THIS PLAN ARE APPROXIMATE. NEW UNDERGROUND WIRES ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR MUST FOLLOW THE ELECTRICAL PLANS AND/OR OBTAIN THE RELOCATION PLANS DIRECTLY FROM THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE TO CHECK AND ENSURE THE PROPOSED UTILITY POLES LOCATIONS DO NOT CONFLICT WITH ANY EXISTING UTILITIES AND/OR PROPOSED IMPROVEMENTS.
  - HDS UNIT = HYDRODYNAMIC SEPARATOR UNIT (WATER QUALITY PROPRIETARY DEVICE)
  - THE PIPE SLOPES IN AND OUT OF THE HYDRODYNAMIC SEPARATOR ARE CALCULATED BASED ON THE DISTANCE BETWEEN THE OUTSIDE OF A 60" (LD) STRUCTURE AND THE INTAKE/DISCHARGE CONNECTION POINT OF THE HDS UNIT. THE PIPE SLOPES ARE THE CRITICAL FACTOR FOR INSTALLATION, AS THIS GENERATES THE PROPER FLOW RATE TO TREAT THE WATER QUALITY DESIGN STORM. THESE PIPES MUST BE INSTALLED AT THE LISTED SLOPE. SHOULD A DIFFERENT DIAMETER (+/-) STRUCTURE BE REQUIRED FOR DGI 1-2 AND/OR MH 1-1, THEN THE DESIGN WILL BE REVIEWED BY THE PROJECT ENGINEER AFTER THE CONTRACTOR SUPPLIES SHOP DRAWINGS.
  - NO STORM STRUCTURE FABRICATION SHALL OCCUR PRIOR TO SHOP DRAWING APPROVAL.
  - SEE "WATER QUALITY DETAILS" SHEET FOR HYDRODYNAMIC SEPARATOR DETAILS AND SPECIFICATIONS.
  - THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR ALL STORM AND SANITARY STRUCTURES TO BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER & THE CITY OF OFALLON PRIOR TO STRUCTURE FABRICATION AND INSTALLATION.
  - SEE STORMWATER MANAGEMENT FACILITIES REPORT CREATED BY THE CLAYTON ENGINEERING COMPANY FOR WATER QUALITY CALCULATIONS.
  - ALL EXISTING SEWER STRUCTURES THAT HAVE CONCRETE MANHOLE LIDS SHALL BE REPLACED WITH CAST IRON LIDS.

**PROJECT TITLE:**  
 SITE CONSTRUCTION PLANS  
 DIRT CHEAP OF OFALLON  
 #708 MO. STATE HIGHWAY K  
 O'FALLON, MISSOURI 63366

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MO Cert. of Authority - Professional Engineering #000067  
 & Professional Surveying #000014



Plan Date: November 8, 2013  
 Revision Date: April 28, 2014  
 Revision Date: May 22, 2014  
 Revision Date: August 1, 2014  
 Revision Date: Sept. 4, 2014

**Developer / Owner Information:**  
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**UTILITY PLAN**

P+Z No.: (23-13.02)  
 Approval Date: 10/03/13  
 City No.

Page No.  
**6 of 23**