

SHEET INDEX		GENERAL UNDERGROUND NOTES	GENERAL NOTES
FP1	FIRE SITE UTILITY PLAN	1. INSTALLATION AND MATERIAL TO BE PER NFPA 24. PIPING UNDER FOOTINGS TO BE DUCTILE IRON. 2. PIPING AND ATTACHED APPURTENANCES SUBJECT TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR TWO HOURS. 3. UNDERGROUND PIPE TO BE FLUSHED PRIOR TO CONNECTION TO OVERHEAD SPRINKLER PIPING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT FLUSHING OF THE UNDERGROUND PIPING HAS OCCURRED PRIOR TO CONNECTION. 4. PROVIDE CONCRETE THRUST BLOCKING AND THRUST RODS AS REQUIRED BY NFPA 24. 5. UNDERGROUND PIPING MUST BE INSTALLED BY A CONTRACTOR LICENSED WITH THE AUTHORITY HAVING JURISDICTION. ALL TESTING MUST BE COMPLETED IN ACCORDANCE WITH NFPA 13, NFPA 24, AND NFPA 25. ALL COMPLETED REPORTS MUST BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION, AND STORED ON SITE FOR PRESENTATION DURING SITE OBSERVATION.	1. THE DESIGN SHOWN ON THESE CONTRACT DOCUMENTS HAS BEEN PREPARED TO PROVIDE GUIDANCE FOR BIDDING. THE CONTRACTOR SHALL SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED TO THE A/E FOR APPROVAL. SPRINKLER SHOP DRAWINGS SHALL INCLUDE ALL NECESSARY ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATION METHODS, NOTES, MATERIAL DATA AND ANY OTHER INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. CONTRACTOR SHALL PROVIDE PIPE SIZES, SPRINKLER SPACING, AND ALL SYSTEM CONFIGURATIONS AS SHOWN. ANY ALTERNATES IN DESIGN OF THE SYSTEM OR IN MATERIALS OR EQUIPMENT USED MUST BE APPROVED IN WRITING VIA THE REQUEST FOR INFORMATION PROCESS BY THE FIRE PROTECTION ENGINEER OF RECORD PRIOR TO ANY BIDDING, FABRICATION, OR INSTALLATION. 2. CONTRACTOR SHALL COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS INCLUDING PIPING, ALARMS, DRAINS, TEST POINTS, ETC., WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. DISTRUCTIONS TO SPRINKLER DISCHARGE MUST BE CONSISTENT WITH SHOP DRAWING PRODUCTION AND INSTALLATION. EXTRA SPRINKLERS MAY BE REQUIRED. NO ADDITIONAL COST TO KROGER. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS. 3. SUBMIT A REQUEST FOR INFORMATION FOR QUESTIONS RELATED TO THE FIRE PROTECTION DOCUMENTS. 4. ROUTE ALL SPRINKLER MARKS ABOVE THE BOTTOM CHORD OF THE STRUCTURE. 5. NEUTRALIZATION/DEMISING WALLS SHOWN ON THE ARCHITECTURAL DRAWINGS. REFER TO THE MECHANICAL DRAWINGS FOR NEUTRALIZATION WALL SPECIFICATIONS. 6. SPRINKLER SYSTEMS TO BE MONITORED BY AN ON-SITE CENTRAL STATION INCLUDING TAMPER SWITCHES ON ALL CONTROL VALVES AND FLOW SWITCHES. 7. IF APPLICABLE, THE CONTRACTOR SHALL ASSUME THAT ANY CURTAIN BOARDS OR DRAFT CURTAINS WILL BE INSTALLED PRIOR TO THE SPRINKLER PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PENETRATIONS OF THE CURTAIN BOARDS OR DRAFT CURTAINS AND SEALING WITH APPROVED FIRE CAULKING. 8. PENETRATIONS OF RATED WALLS OR ASSEMBLIES SHALL BE FIRE CALKED WITH APPROVED CALKING PER METHODS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, AND PROJECT SPECIFICATIONS. 9. THE FIRE PROTECTION ENGINEER OF RECORD WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NOR SHALL HE BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK. THE CONSTRUCTION PROCEDURES AS SET FORTH BY THE GENERAL CONTRACTOR, SUB-CONTRACTORS, THEIR RESPECTIVE EMPLOYEES, OR ANY OTHER PERSON AT THE JOB SITE OTHER THAN THE ENGINEERING FIRM'S OWN EMPLOYEES. 10. SPRINKLER PROTECTION IS REQUIRED ABOVE THE ELECTRICAL ROOMS. NO MAIN PIPING SHALL PENETRATE OR PASS ABOVE THE ELECTRICAL ROOMS. 11. THE CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID. SHOULD MODIFICATION TO THESE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH OTHER TRADES, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF THESE CHANGES BY THE A/E AND THE FIRE PROTECTION ENGINEER OF RECORD. IN ADDITION TO OBTAINING THE NECESSARY APPROVALS, THE CONTRACTOR MUST MAKE NOTE OF ALL FIELD OR COORDINATION CHANGES ON THE INSTALLATION DRAWINGS. ONCE COMPLETE, THE CONTRACTOR SHALL SUPPLY ONE COPY OF AS-BUILT DRAWINGS TO THE FIRE PROTECTION ENGINEER OF RECORD FOR THEIR USE. 12. THE CONTRACTOR SHALL DIVERT ALL DRAIN AND INSPECTORS TEST CONNECTION DISCHARGE AWAY FROM FINISHED SURFACES AND PIPES TO APPROVED DRAIN LOCATIONS. THE CONTRACTOR WILL BE BACKCHARGED FOR ANY REPAIR, REPLACEMENT, OR CLEANING OF RUST STAINS ON PAVEMENT/CONCRETE DUE TO WATER DISCHARGE FROM SPRINKLER SYSTEM DRAIN DOWNS. 13. ALL HANGER CONNECTIONS SHALL BE MADE TO THE TOP CHORD OF STRUCTURAL JOIST UNLESS NOTED OTHERWISE. USE OF SAMMY SCREWS INTO ROOF DECK OR STRUCTURE IS PROHIBITED UNLESS OTHERWISE NOTED.
FP2	OVERALL FIRE SPRINKLER PLAN		
FP2.1	FIRE SPRINKLER PLAN SYSTEM 1		
FP2.2	FIRE SPRINKLER PLAN SYSTEM 2 & 3		
FP3	FIRE PROTECTION DETAILS		

**WATER SUPPLY INFORMATION**

STATIC: 98 PSI  
 RESIDUAL: 84 PSI AT 750 GPM  
 INFORMATION DERIVED FROM FLOW TEST SUPPLIED BY V. CAI, TELGIAN CORP.  
 EFFECTIVE POINT OF FLOW TEST INFORMATION: S/R HYDRANT, REF 1-FP1  
 DATE OF TEST: 10/03/18 @ 10:00 PM EST  
 FLOW TEST ELEVATION: 4983.8 FT. MSL  
 FLOW: 750 GPM @ 84 PSI  
 FLOW SUPPLY IS FURTHER REDUCED TO 10 PSI SPRINKLER REQUIREMENTS

WATER SUPPLY TO BE USED FOR FIRE SPRINKLER SYSTEM AT EFFECTIVE POINT:  
 STATIC: 88 PSI  
 RESIDUAL: 84 PSI AT 750 GPM



**1 FIRE SITE UTILITY PLAN**  
 SCALE: 1" = 60'  
 0 30 60 120  
 NORTH

UNDERGROUND PIPING SHOWN FOR REFERENCE ONLY. SEE CIVIL DOCUMENTS FOR FINAL ARRANGEMENT.

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 DRAWN BY: CJP  
 REVIEWED BY:

OWNER  
  
 SUBREVISION

PROJECT TITLE  
**KROGER STORE GA685**  
 Chamblee Tucker Road  
 Tucker, GA  
 COMMISSION NO.  
 ISSUE DATE: 10/25/2018  
 SHEET TITLE  
**FIRE SITE UTILITY PLAN**  
 SHEET NO.  
**FP1**