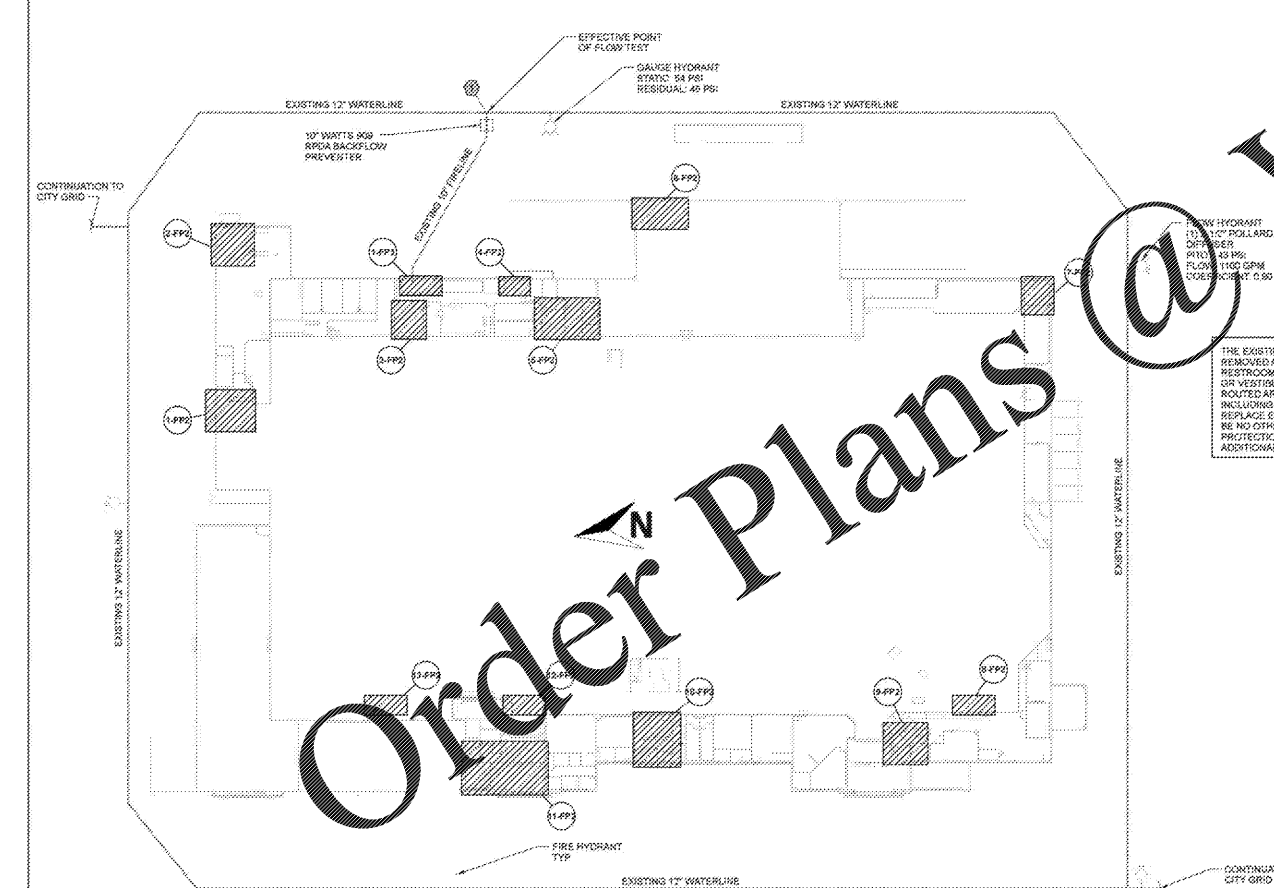


CONTRACTOR SHALL PREPARE PERMANENT ZONE MAP AND PLACE ON WALL IN SPRINKLER ROOM.

CONTRACTOR SHALL INDICATE INSPECTOR'S TEST VALVE/AUXILIARY DRAIN LOCATIONS ON ZONE MAP.

CONTRACTOR SHALL INDICATE INSPECTOR'S TEST VALVE/AUXILIARY DRAIN LOCATIONS ON ZONE MAP.

2 ZONE MAP



1 FIRE PROTECTION PLAN

THE EXISTING CEILING TILES AND LIGHTS ARE BEING REMOVED AND REPLACED IN THE BREAKROOM, REAR VESTIBULE, FRONT RESTROOM, ICM VESTIBULE, AND/OR VESTIBULE. ALL NEW WORK IN THESE AREAS IS TO BE ROUTED AROUND ALL OTHER CEILING EQUIPMENT, INCLUDING FIRE SPRINKLERS. CONTRACTOR SHALL REPLACE ESCUTCHIONS AS NECESSARY. THERE SHALL BE NO OTHER SCOPE OF WORK IN THIS AREA FOR FIRE PROTECTION. REF SHEETS E1.1 AND E1.2 FOR ADDITIONAL INFORMATION.

CONTACT INFORMATION	SYSTEM IMPAIRMENT REQUIREMENTS	SCOPE OF WORK	GENERAL NOTES	GENERAL NOTES
<p>DOCUMENTS INCLUDE JURISDICTIONAL REQUIREMENTS PROVIDED BY THE FOLLOWING CONTACTS:</p> <p>FIRE SPRINKLER REVIEWING AUTHORITY: T.J. MCLAUGHLIN DISTRICTAL CHIEF / FIRE MARSHAL FAYETTEVILLE, NC 919.438.1400</p> <p>APPLICABLE CODES</p> <p>NFPA STANDARDS NFPA 13 NFPA 22 NFPA 25</p> <p>REFER TO SHEET C-1 FOR APPLICABLE BUILDING CODES</p> <p>WATER SUPPLY INFORMATION</p> <p>STATIC AT SOURCE (NOTE 1): 64 PSI RESIDUAL AT SOURCE (NOTE 1): 48 PSI AT 1100 GPM</p> <p>INFORMATION DERIVED FROM A WATER REPORT SUPPLIED BY CATALYTIC. DURING A FLOW TEST UNIT ON 3/4/18, THE TEST WAS CONDUCTED AT 0.5 GPM AND THE HYDRAULIC CALCULATIONS ARE MODIFIED BY THE FOLLOWING:</p> <p>5.0 PSI DUE TO LOW GPM/INCH</p> <p>STATIC AND RESIDUAL PRESSURE LOSSES DUE TO 10" WATER 600 KPA BACKFLOW PREVENTER</p> <p>STATIC AND RESIDUAL PRESSURE LOSSES DUE TO 60 PSI AT 1000 GPM FLOW PUMP</p> <p>ALL FRICTION LOSSES DUE TO UNDERGROUND PIPE, FITTINGS AND VALVES ARE TO BE INCLUDED IN THE HYDRAULIC CALCULATIONS.</p> <p>*AN ADDITIONAL 3 PSI SAFETY FACTOR IS NOT INCLUDED IN THE ABOVE NUMBERS, BUT WILL BE INCLUDED IN THE FIRE SPRINKLER HYDRAULIC CALCULATIONS.</p> <p>ADDITIONAL SAFETY FACTORS ARE NOT INCLUDED.</p> <p>GENERAL UNDERGROUND NOTES</p> <ol style="list-style-type: none"> <li>ALL UNDERGROUND PIPING IS SHOWN FOR HYDRAULIC REFERENCE ONLY.</li> <li>THERE SHALL BE NO NEW UNDERGROUND WORK FOR THIS PROJECT UNLESS NOTED OTHERWISE.</li> </ol>	<ol style="list-style-type: none"> <li>THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION, VERIFICATION AND PROVISION OF A FIRE WATCH SUBJECT TO THE REQUIREMENTS OF THE LOCAL JURISDICTION. ALL FIRE WATCH COSTS INCURRED AS A RESULT OF THIS PROJECT SHALL BE INCLUDED IN THE PROJECT BUDGET. LIEF FROM COORDINATION AND VERIFICATION AS TO WHEN A FIRE WATCH MAY BE NEEDED SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.</li> <li>THE CONTRACTOR SHALL REQUEST THE STORE MANAGER TO NOTIFY WALKMART ALARM CENTRAL OF THE SYSTEMS TO BE SHUT DOWN ONLY DOWN FOR WORK SHOWN AND THE DURATION OF THE SHUT DOWN.</li> <li>THE CONTRACTOR SHALL CALL DIRECT TO THE FIRE DEPARTMENT AND ADVISE THAT THE FIRE ALARM SYSTEM IS ON TEST.</li> <li>AT THE END OF EACH NIGHT'S WORK, THE GENERAL CONTRACTOR SHALL CALL DIRECT TO THE FIRE DEPARTMENT AND ALARM CENTRAL TO ADVISE WORK IS COMPLETE.</li> <li>FIRST FIRE WATCH OPTION: A FIRE WATCH SHALL BE REQUIRED WHERE ANY FIRE PROTECTION SYSTEM IS IMPAIRED OR OTHERWISE SHUT DOWN FOR ALTERATION, REPAIR OR MAINTENANCE. THE FIRE WATCH SHALL BE CONDUCTED BY A DESIGNATED, TRAINED WALKMART EMPLOYEE WHOSE SOLE RESPONSIBILITY WILL BE TO PERFORM HOURLY PATROLS OF THE PREMISES AND REPORT ANY SUSPICIOUS ACTS TO THE GENERAL CONTRACTOR AND MANAGER. MANAGEMENT THIS PERSON SHALL BE PROVIDED WITH AT LEAST ONE APPROVED MEANS FOR NOTIFICATION TO THE FIRE DEPARTMENT.</li> <li>SECOND FIRE WATCH OPTION: A FIRE WATCH SHALL BE REQUIRED WHERE ANY FIRE PROTECTION SYSTEM IS IMPAIRED OR OTHERWISE SHUT DOWN FOR ALTERATION, REPAIR OR MAINTENANCE. THE FIRE WATCH PERSONNEL SHALL BE PROVIDED WITH AT LEAST ONE APPROVED MEANS FOR NOTIFICATION TO THE FIRE DEPARTMENT AND THEIR SOLE DUTY SHALL BE TO PERFORM CONSTANT PATROLS AND WATCH FOR THE OCCURRENCE OF A FIRE. AT NO TIME WORK OPERATIONS, A FIRE WATCH SHALL BE POSTED FOR THE DURATION OF THE WORK AND BE REMOVED THEREAFTER.</li> <li>ONLY ONE (1) SYSTEM IS PERMITTED TO BE SHUT DOWN AT A TIME.</li> <li>ANY FIRE DEPARTMENT FEES FOR FAILURE TO FOLLOW PROCEDURES WILL BE AT THE GENERAL CONTRACTOR'S EXPENSE.</li> <li>REQUIRED MAINT OF ALL SYSTEMS SHALL BE MAINTAINED AT ALL TIMES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR ALL WORK. ANY NECESSARY PERMITS AND APPROVALS SHALL BE OBTAINED PRIOR TO THE START OF WORK.</li> <li>ALL WORK SHALL BE COMPLETED WITHIN THE REQUIRED TIME FRAME AND TO CONFORM TO THE REQUIRED CONSTRUCTION PHASING OF THE PROJECT.</li> <li>CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ITEMS DAMAGED DURING REPAIR AND DEMOLITION WORK.</li> <li>CONTRACTOR SHALL PATCH ALL HOLES TO MATCH ADJACENT SURFACES LEFT UNPAVED AFTER EXISTING SPRINKLER PIPING OR EQUIPMENT IS REMOVED AND VACATED FROM THESE HOLES.</li> <li>CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND MAINTAINING FIRE DEPARTMENT ACCESS ROADS THROUGHOUT THE PROJECT.</li> <li>SPRINKLER SYSTEMS NOT AFFECTED BY THE SCOPE OF WORK SHALL BE LEFT IN SERVICE AND EQUIPMENT WHERE REQUIRED.</li> <li>DISCONNECT, RELocate, AND RECONNECT EXISTING FIRE PROTECTION SYSTEMS AND EQUIPMENT WHERE REQUIRED.</li> <li>ALL WORK SHALL BE PERFORMED SO AS TO NOT INTERRUPT SERVICE. THE CONTRACTOR SHALL PROPERLY NOTIFY THE LANDOWNER, LESSOR AND THE ADJACENT TENANTS A MINIMUM OF 48 HOURS IN ADVANCE, BEFORE PROCEEDING WITH THIS WORK. ALL WORK SHALL BE SCHEDULED IN ADVANCE.</li> <li>THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF WORK FOR THIS PROJECT HAVE BEEN SHOWN INFORMATION SHOWN AS EXISTING TO REMAIN IS NOT BEING MODIFIED AS A PART OF THIS PROJECT.</li> <li>NOTE CAREFULLY THAT THE FIRE PROTECTION DRAWINGS ARE INTENDED TO INDICATE ONLY THE GENERAL CHARACTER AND LOCATIONS OF THE WORK INCLUDED. PROVIDE ALL WORK DETAILS OMITTED OR NOT SHOWN COMPLETE AS REQUIRED TO PERFORM THE FUNCTIONS INTENDED. FOLLOW THE CONTRACT DOCUMENTS FOR BUILDING DETAILS AND FIT THE WORK OF THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS THERE TO.</li> </ol>	<ol style="list-style-type: none"> <li>CONTRACTOR SHALL FIELD VERIFY EXTENT OF WORK.</li> <li>ALL EXISTING OVERHEAD SYSTEMS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.</li> <li>USE EACH EXISTING OUTLET FOR ONE NEW BRANCH TO NEW SPRINKLER HEAD LOCATION UNLESS HYDRAULICALLY CALCULATED. CONTRACTOR SHALL INSTALL A 1" MECHANICAL TIE IF ANY ADDITIONAL BRANCHING IS REQUIRED. AFTER DEMOLITION IS COMPLETE, THE NEW SPRINKLER SYSTEM SHALL MEET ALL REQUIREMENTS OF THE ADOPTED EDITION OF NFPA 13.</li> <li>EXISTING SPRINKLER SYSTEM SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. NEW SPRINKLER HEADS TO BE ADDED TO EXISTING SYSTEM SHALL BE ADDED TO EXISTING SYSTEM.</li> <li>EXISTING FIRE SPRINKLER SYSTEMS WILL BE MODIFIED AS INDICATED ON THE PROJECT CONTRACT DOCUMENTS. THE SCOPE OF WORK MAY INCLUDE THE MODIFICATION OF EXISTING BRANCHING, INSTALLATION OF NEW BRANCHING, MODIFICATION OF EXISTING SPRINKLER RISERS, THE REMOVAL AND INSTALLATION OF NEW SPRINKLERS, MODIFICATION OF EXISTING MAINS, INSTALLATION OF NEW MAINS, OR REPLACEMENT OF THE EXISTING BACKFLOW PREVENTER.</li> <li>ALL NEW PIPING (IF APPLICABLE) SHALL HAVE HANGERS INSTALLED IN ACCORDANCE WITH THE DETAILS LOCATED ON THE FIRE PROTECTION DETAILS SHEET AND TO THE ADOPTED EDITION OF NFPA 13.</li> <li>ALL 1-INCH ANCHORS OF APPLICATIONS (3) SHALL HAVE A HANGER SECURED TO THE STRUCTURAL STEEL ONLY. NOT TO THE DECK WHEN THE CLEARANCE BETWEEN THE HANGER AND THE STRUCTURAL STEEL IS LESS THAN 1/2". DISCHARGE PRESSURES ARE UP TO 100 PSI AND HOSE WHERE STATIC PRESSURES EXCEED 100 PSI.</li> <li>CEILING GRID SHALL BE PERMITTED TO BE REMOVED IN AREAS WHERE REQUIRED TO INSTALL OR TO COMPLETE THE WORK. NECESSARY SUCH AS TO INSTALLATION OF NEW MAINS, OR TO COMPLETE THE WORK. CONTRACTOR OR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACING ITEMS DAMAGED DURING REPAIR AND DEMOLITION WORK.</li> <li>CONTRACTOR SHALL REPLACE NEW SPRINKLERS AS NECESSARY DUE TO PRINT, DAMAGE, ETC. CONTRACTOR SHALL COORDINATE.</li> <li>THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE FIRE PLANES DURING THE SPRINKLER SYSTEM UPGRADE PROCESS. THE CONTRACTOR SHALL COORDINATE WITH THE STORE MANAGER AS NECESSARY FOR MATERIALS AND TOOLS TO BE USED FOR PROJECT FROM TO START OF WORK.</li> <li>THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR THE HYDRAULIC CALCULATIONS, MATERIAL DATA, AND APPROVAL BY THE ENGINEER OF RECORD AND (4) AS WELL AS ALL INSTALLATION.</li> <li>THE SPRINKLER CONTRACTOR MUST SUBMIT CONTRACT DOCUMENTS, AS OUTLINED IN THE PROJECT SPECIFICATIONS, TO THE FIRE PROTECTION ENGINEER OF RECORD FOR APPROVAL. AFTER THE APPROVAL IS GIVEN, THE CONTRACTOR MUST SUBMIT TO THE AUTHORITY HAVING JURISDICTION FOR INSTALLATION PERMIT.</li> <li>THE CONTRACTOR SHALL COORDINATE WITH THE STORE MANAGER ON THE AREA TO BE WORKED INCORPORATIONS TO ASSURE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH ALL OTHER TRADES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF THE CHANGES FROM BOTH THE AUTHORITY HAVING JURISDICTION AND THE FIRE PROTECTION ENGINEER OF RECORD. IN ADDITION TO OBTAINING THE NECESSARY APPROVALS, THE SPRINKLER CONTRACTOR MUST MAKE FIELD OF ANY FIELD OR COORDINATION CHANGES ON THE INSTALLATION DRAWINGS, AND THEN MUST PROVIDE A SET OF "RED-LINED" AS-BUILT DRAWINGS TO THE FIRE PROTECTION ENGINEER OF RECORD ONCE COMPLETE.</li> <li>THE SPRINKLER CONTRACTOR MUST VERIFY ALL DROP DOWN LOCATIONS AT EXTERIOR WALLS WITH THE GENERAL CONTRACTOR/ARCHITECT OR WALKMART CONSTRUCTION MANAGER PRIOR TO INSTALLATION.</li> <li>ALL PIPING MUST BE COORDINATED AROUND TRADING HANGERS AND PROPERLY INSTALLED ABOVE THE BOTTOM CHORD OF THE BAR JOIST.</li> </ol> <p>AIR RELEASE VENT</p> <p>ONE (1) AIR VENT MUST BE INSTALLED ON ALL WET TYPE FIRE PROTECTION SYSTEMS INCLUDING SYSTEMS NOT AFFECTED BY THE REMODEL SCOPE OF WORK. EACH AIR VENT IS TO BE INSTALLED NEAR THE HIGHEST POINT OF THE SYSTEM AND PREFERABLY ON THE MAINS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE HIGHEST POINT OF EACH SYSTEM AND INSTALLING THE AIR VENT IN AN ACCESSIBLE LOCATION. IF THE AIR VENT IS TO BE INSTALLED ABOVE AN EXISTING CEILING, THE CONTRACTOR MUST PROVIDE CLEARANCE PER NFPA 13, REF 24(F).</p> <p>EARTHQUAKE BRACING</p> <p>EARTHQUAKE BRACING REQUIRED ON SPRINKLER PIPING BE THE ADOPTED EDITION OF NFPA 13. THE CONTRACTOR SHALL VERIFY EARTHQUAKE BRACING IS INSTALLED IN ACCORDANCE WITH THE 2015 EDITION OF NFPA 13, INCLUDING THE 2002-1 AMENDMENT AND MANUFACTURER'S REQUIREMENTS. EARTHQUAKE BRACING MUST BE REQUIRED DUE TO FIELD ADJUSTMENTS, VARYING BRACING ANGLES, DISTANCE TO JOISTS AND THE AUTHORITY HAVING JURISDICTION.</p>	<ol style="list-style-type: none"> <li>THE DESIGN SHOWN ON THESE CONTRACT DOCUMENTS IS TO PROVIDE GUIDANCE FOR RECORDS. SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED BY CONTRACT DOCUMENTS TO THE DESIGNER DESIGNATED BY THE CONTRACTOR. SHOP DRAWINGS MUST INCLUDE ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, PARTICATION METADATA, MATERIAL DATA, AND ADDITIONAL INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. CONTRACTOR SHALL PROVIDE PIPE SIZE, SPRINKLER SIZE, AND SYSTEM CONFIGURATION AS SHOWN. ALTERNATE MATERIALS MUST BE IDENTIFIED IN RECORD DOCUMENTS PRIOR TO BID.</li> <li>THE SPRINKLER SHOP DRAWINGS MUST INCLUDE AT A MINIMUM THE HYDRAULIC REMOTE AREA, HYDRAULIC WORK, PIPE AND SPRINKLER ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATIONS, PARTICATION METADATA, AND ADDITIONAL INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. THE SPRINKLER CONTRACTOR SHALL PROVIDE ALL PIPE SIZES, SYSTEM CONFIGURATION AS SHOWN ANY USE OF ALTERNATE MATERIALS OR METHODS MUST BE REVIEWED AND APPROVED BY THE FIRE PROTECTION ENGINEER OF RECORD. INFORMATION TO BE PROVIDED IN RECORD DOCUMENTS PRIOR TO BID.</li> <li>COORDINATE LOCATIONS OF EXISTING SPRINKLER HEADS, HANGER LOCATIONS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING. DISCHARGE PRESSURES ARE UP TO 100 PSI AND HOSE WHERE STATIC PRESSURES EXCEED 100 PSI. ALL DIFFERENT PIPE SIZES MAY BE REQUIRED AT NO ADDITIONAL COMPENSATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.</li> <li>THE CONTRACTOR MUST VISIT THE BUILDING SITE TO DETERMINE THE FULL EXTENT OF THE EXISTING FIRE PROTECTION WORK AND TO BE FAMILIAR WITH THE DISCONNECTIONS, RELOCATION OF EXISTING FIRE PROTECTION EQUIPMENT REQUIRED, AND CONDITIONS IN THE UNDERGROUND FOR THIS PROJECT. NO EXTRA COMPENSATION WILL BE PAID FOR LACK OF SUCH DETERMINATION. PARTIAL COMPENSATION WILL BE PAID FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK. THE CONSTRUCTION PROCEDURES FOLLOWED BY THE CONTRACTOR AND SUBCONTRACTORS, THEIR RESPECTIVE EMPLOYEES OR ANY OTHER PERSON AT THE JOB SITE, OTHER THAN THAT OF THE ENGINEERING FIRM'S EMPLOYEES.</li> <li>THE SPRINKLER CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO CONSTRUCTION AND IDENTIFY ANY DISCREPANCIES OR CLARIFICATIONS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH ALL OTHER TRADES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF THE CHANGES FROM BOTH THE AUTHORITY HAVING JURISDICTION AND THE FIRE PROTECTION ENGINEER OF RECORD. 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THE GENERAL CONTRACTOR SHALL PROVIDE INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. CONTRACTOR SHALL PROVIDE PIPE SIZE, SPRINKLER SIZE, AND SYSTEM CONFIGURATION AS SHOWN. ALTERNATE MATERIALS MUST BE IDENTIFIED IN RECORD DOCUMENTS PRIOR TO BID.</li> <li>THE SPRINKLER SHOP DRAWINGS MUST INCLUDE AT A MINIMUM THE HYDRAULIC REMOTE AREA, HYDRAULIC WORK, PIPE AND SPRINKLER ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATIONS, PARTICATION METADATA, AND ADDITIONAL INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. THE SPRINKLER CONTRACTOR SHALL PROVIDE ALL PIPE SIZES, SYSTEM CONFIGURATION AS SHOWN ANY USE OF ALTERNATE MATERIALS OR METHODS MUST BE REVIEWED AND APPROVED BY THE FIRE PROTECTION ENGINEER OF RECORD. INFORMATION TO BE PROVIDED IN RECORD DOCUMENTS PRIOR TO BID.</li> <li>COORDINATE LOCATIONS OF EXISTING SPRINKLER HEADS, HANGER LOCATIONS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING. 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GENERAL NOTES	SHEET INDEX
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CHECKED BY: JAMES BOY (DATE: 06/15/2023)

DRAWN BY: C.A.D. (DATE: 06/15/2023)

PROJECT NO: 2023-0028

ISSUE BLOCK

NO.	DATE	DESCRIPTION

DOCUMENTS WITHOUT SIGNATURE AND REQUIRED SEAL OF ENGINEER ARE NOT FOR CONSTRUCTION

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