CORES THROUGH FLOORS OR CEILINGS. PACK WITH SEALANT COMMENSURATE WITH THE WALL CONSTRUCTION AND APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION.

BACKFLOW DEVICE IS EXISTING, BUT SHALL BE TESTED AND APPROVED BY A CERTIFIED TECHNICIAN

THIS FP CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF NFPA-25 AND A DETAILED DESCRIPTION OF THE MAINTENANCE REQUIRED FOR THIS PROJECT. SUCH A MAINTENANCE SUMMARY SHALL BE PROVIDED, AS IT WOULD APPEAR IN AN INDUSTRY STANDARD MAINTENANCE CONTRACT. IN ADDITION, AS A MINIMUM, TWO (2) SETS OF THE APPROVED 'RECORD DRAWINGS' AND

THIS FP CONTRACTOR SHALL INSTALL A SYSTEM DESIGN PLACARD FOR EACH REMOTE AREA OF OPERATION AS INDICATED ON THE APPROVED CONSTRUCTION DOCUMENTS. SYSTEM DEMAND AT THE BASE OF THE RISER IN PSI AND GPM SHALL BE PROVIDED WITH THE AREA OF OPERATION SQUARE FOOTAGE AND NUMBER OF OPERATING SPRINKLERS. EACH DESIGN PLACARD SHALL BE PERMANENTLY EMBOSSED SUCH THAT DATA MAY BE AVAILABLE FOR FUTURE USE. THE UTILIZATION

THE SPARE SPRINKLER CABINET IS EXISTING, IN AN APPROVED LOCATION. F.P. CONTRACTOR SHALL

EACH SPRINKLER TYPE AS REQUIRED. THIS FP CONTRACTOR SHALL BE LICENSED TO PERFORM THIS PARTICULAR TYPE OF WORK WITH TH STATE REGISTRAR OF CONTRACTORS AND WITH LOCAL AND STATE AUTHORITIES HAVING

AND AHJ FIELD INSPECTIONS AS NECESSARY FOR A COMPLETELY APPROVED WORKING SYSTEM. WHERE REQUIRED, THIS AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY A UL LISTED CENTRAL STATION SYSTEM. ALL SYSTEMS OVER 100 SPRINKLERS SHALL BE MONITORED FOR

TAMPER. TROUBLE AND FLOW ALL CONTROL VALVES SHALL BE CHAIN-LOCKED AND SECURED INCLUDING MAIN DRAIN ANGLE

VALVES. ALL EXTERIOR FIRE RISERS SHALL BE LOCATED IN A SECURED AREA TO PREVENT DAMAGE DUE TO VANDALISM.

THE AUTHORITIES HAVING JURISDICTION. IN ADDITION, THIS FP CONTRACTOR SHALL ENSURE THAT TEMPORARY INTERIOR FIRE PROTECTION IS IN PLACE PER AUTHORITY HAVING JURISDICTION. THIS INCLUDES PROVISIONS FOR TEMPORARY FIRE DEPARTMENT WATER SUPPLIES. HOSE CONNECTIONS

THE GENERAL CONTRACTOR SHALL PROVIDE A FIRE DEPARTMENT LOCK BOX FOR ALL NEW CONSTRUCTION AS DELINEATED ON THE ARCHITECTURAL DOCUMENTS. DEVICES SHALL BE SIMILAR OR EQUIVALENT TO 'KNOX MANUFACTURING'.

WHERE SCOPE INTERSECTS EXISTING STRUCTURAL CONDITIONS: EXISTING PRIMARY STEEL UTILIZES INTUMESCENT FIREPROOFING SPRAY - 2 HOUR SECONDARY STEEL UTILIZES CEMENTICIOUS FIREPROOFING SPRAY - 1 HOUR RETAIN EXISTING RATING AT ALL STRUCTURAL AND DECKING, COORDINATE WORK WITH SHELL TEAM

DESIGN CRITERIA

LIGHT HAZARD (VESTIBULES, HALLS, RESTROOMS, OFFICES, COMPUTER LABS, TELECOMMUNICATION

IN COMBUSTIBLE CONCEALED SPACES ABOVE CEILINGS WITH STRUCTURAL MEMBERS FURTHER THAN 3 FT IN CENTER. A MAXIMUM SPACING OF 168 SQUARE FEET SHALL APPLY. CONTRACTOR SHALL VERIFY

ONDITIONS AND SPACING REQUIREMENTS PER NFPA 13 2016 EDITION, TABLE 10.2.4.2.1(A).

ORDINARY HAZARD GROUP 2 (MAIN RETAIL AREA)

.20/1500, 130 SQUARE FEET MAX SPACING, 100 GPM INSIDE HOSE PROVISION AND 150 OUTSIDE HOSE PROVISION (TOTAL OF 250 GPM HOSE PROVISION), ORDINARY GROUP II, PER 2016 EDITION OF NFPA 13. SECTION 5.3.2 AND FIGURE 11.2.3.1.1 WITH TABLE 8.6.2.2.1(B).

RSPU STORAGE & SHIPPING/RECEIVING AREA w/ CEILINGS:

NFPA-13 AND THE INTERNATIONAL FIRE CODE, INCLUDING ALL ASSOCIATED APPENDICES. INSTALLATION SHALL ALSO CONFORM TO ALL AUTHORITIES HAVING JURISDICTION (AHJ's) INCLUDING LOCAL AND STATE FIRE MARSHAL REQUIREMENTS. THE ELECTRONIC FILE SET OF THE APPROVED ENGINEERED CONSTRUCTION DOCUMENTS IS

AVAILABLE TO THE INSTALLING FIRE PROTECTION CONTRACTOR AT NO COST. THIS SET IS MADE SOLELY AVAILABLE FOR THE FABRICATION PORTION OF THE PROJECT. CONTACT NRG FIRE CONSULTING IN WRITING TO REQUEST. FP CONTRACTOR SHALL PROVIDE PROOF THAT PROJECT IS UNDER CONTRACT FOR INSTALLATION. THE DETAILS, DRAWINGS AND OTHER DATA INCLUDED IN THE CONSTRUCTION SET OF DOCUMENTS ARE FOR INFORMATION PURPOSES ONLY AND ARE SPECIFIC TO THIS PROJECT. ALL DRAWINGS, CONCEPTS, DETAIL INFORMATION AND DATA CONTAINED HEREIN SHALL REMAIN THE SOLE PROPERTY OF NRG FIRE CONSULTING AND SHALL NOT BE UTILIZED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE EXPRESSED WRITTEN CONSENT OF NRG FIRE CONSULTING.

GENERAL FIRE PROTECTION NOTES

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ACCEPTED EDITIONS OF

THE INTENT OF THIS SET OF ENGINEERED CONSTRUCTION DOCUMENTS IS TO MEET THE LOCAL AND STATE OF WASHINGTON REQUIREMENTS FOR A PROFESSIONALLY DESIGNED AUTOMATIC FIRE SPRINKLER SYSTEM. THE INSTALLING CONTRACTOR SHALL SUBMIT 'PRODUCT DATA' SUBMITTALS AS REQUIRED IN THE PROJECT MANUAL FOR THE INSTALLATION RECORD. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND/OR OBTAINING ALL PERMITS ASSOCIATED WITH THIS SET OF DOCUMENTS: INCLUDING ARIZONA STATE FIRE MARSHAL APPROVAL FOR EDUCATIONAL OR INSTITUTIONAL FACILITIES.

ALL WIRING OF ELECTRIC INITIATION DEVICES (HORN-STROBES, WATER SUPERVISORY AND TAMPER DEVICES) SHALL BE BY THE ELECTRICAL AND/OR ALARM CONTRACTOR.

THE PIPING HEREIN HAS BEEN DESIGNED TO MEET UNDERWRITERS LABORATORIES (U.L.) CORROSION RESISTANCE RATIO (CRR) MINIMUM OF 1.00. REFER TO PIPING PLANS, HYDRAULIC CALCULATIONS AND SPECIFICATIONS FOR SPECIFIC PIPE WEIGHTS AND WALL THICKNESS ASSOCIATED WITH THIS SPECIFIC PROJECT. THE UTILIZATION OF A CRR LESS THAN 1.00 IS NOT ACCEPTABLE UNDER ANY CIRCUMSTANCES. THE USE OF SUCH PIPING SUBJECTS THE CONTRACTOR TO POTENTIAL REMOVAL AND REPLACEMENT OF ALL PIPING AT HIS/HER COST.

A MINIMUM 10% SAFETY FACTOR HAS BEEN INCLUDED IN THE WATER SUPPLY FOR THIS PROJECT ADDITIONAL SAFETY FACTORS, AS REQUIRED BY LOCAL AHJ HAVE ALSO BEEN IMPLEMENTED. NRG FIRE CONSULTING IS NOT RESPONSIBLE FOR ADDITIONAL CHANGES IN WATER SUPPLY (GPM OR PRESSURE) THAT MAY ADVERSELY AFFECT THIS AUTOMATIC FIRE SPRINKLER SYSTEM IN THE

THE FIRE PROTECTION CONTRACTOR IS FULLY RESPONSIBLE FOR THE FIELD FIT OF ALL SPRINKLER: AND PIPING. THE ACCURACY OF SCALED CONSTRUCTION DOCUMENTS IS NOT ASCERTAINABLE. ALL POSSIBLE ATTEMPTS HAVE BEEN MADE TO INCLUDE SLOPED PIPE LENGTHS AND TO MINIMIZE VARIATIONS. THEREFORE, THE FP CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF FIELD CU AND PRE-FABRICATED PIPING.

THE FP CONTRACTOR IS RESPONSIBLE FOR GENERAL WORKMANSHIP, DIMENSIONING, COORDINATION WITH OTHER TRADES AND THE ACCEPTANCE OF THE FIELD INSPECTIONS. THE COORDINATION OF FIELD INSTALLED PIPING AND SPRINKLERS TO STRUCTURAL COMPONENTS, DUCTWORK, EQUIPMENT, CEILING, LIGHTS, ETC., IS THE RESPONSIBILITY OF THIS LICENSED

FIELD VERIFY ALL CONDITIONS PRIOR TO THE INSTALLATION OF ANY PIPING. FIELD ADJUSTMENTS MAY BE MADE TO THESE DOCUMENTS AS REQUIRED FOR FIELD ACCEPTANCE BY THE AHJ.

THE FIRE PROTECTION CONTRACTOR SHALL VERIFY THE SPRINKLER SPACING TO THE STRUCTURAL MEMBERS, ROOF DECK AND ALL OBSTRUCTIONS. PROVIDE ADDITIONAL, OR RESPACE, SPRINKLERS WHERE REQUIRED TO AVOID SUCH UNFORESEEN OBSTRUCTIONS TO SPRINKLER DISCHARGE

CORRECT SPRINKLER LOCATIONS AND/OR QUANTITIES ARE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. COORDINATE PIPING WITH ALL OTHER TRADES. REVIEW ALL OTHER TRADE(S DRAWINGS. CONTRACTOR SHALL PLACE IN THEIR BID AS A SEPARATE LINE ITEM EXTRA QUANTITY OF SPRINKLERS. COST OF EXTRA SPRINKLERS SHALL BE ACCOUNTED FOR AT TIME OF BID, CONTRACTOR WILL NOT BE AWARDED COST OF EXTRA SPRINKLERS AFTER BID APPROVAL, UNLESS OWNER CHANGES INDICATED OTHERWISE.

LICENSED TO PERFORM SUCH WORK IN THIS PARTICULAR MUNICIPALITY.

ASSOCIATED EQUIPMENT SUBMITTALS SHALL BE PROVIDED TO THE OWNER.

OF PERMANENT MARKING PENS IS NOT APPROPRIATE OR ACCEPTABLE.

VERIFY THAT ALL REQUIRED SPARE SPRINKLERS AND TWO (2) SETS OF SPRINKLER WRENCHES FOR

JURISDICTION. IN ADDITION, CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL PLAN REVIEW

COMBUSTIBLE CONTENTS SHALL NOT BE MOVED INTO THE BUILDING WITHOUT THE APPROVAL OF

.10/1500, 225 SQUARE FEET MAX SPACING, 50 GPM INSIDE HOSE PROVISION AND 50 OUTSIDE HOSE PROVISION (TOTAL OF 100 GPM HOSE PROVISION), LIGHT HAZARD, PER 2016 EDITION NFPA 13, SECTION 5.2 WITH TABLE 8.6.2.2.1(A).

DINARY HAZARD GROUP 1 (ELECTRICAL ROOMS, MECHANICAL ROOMS, JANITOR'S CLOSET,

.15/1500, 130 SQUARE FEET MAX SPACING, 150 GPM OUTSIDE HOSE PROVISION WITH 100 GPM HOSE PROVISION TAKEN INSIDE FOR SYSTEMS WITH INTERIOR HOSE VALVES (FOR A TOTAL OF 250 GPM HOSE PROVISION) TO PROTECT ORDINARY GROUP I, PER NFPA 13 2016 EDITION, SECTION 5.3.1 AND FIGURE 11.2.3.1.1 WITH TABLE 8.6.2.2.1(B). CONTRACTOR SHALL VERIFY CORRECT SECTIONS PER CURRENTLY ADOPTED STANDARD AS REQUIRED BY AHJ.

TO 12-FT OF STORAGE HEIGHT WITH A MAXIMUM 15-FT CEILING HEIGHT.

.30/2500, 100 SQUARE FEET MAX SPACING, 100 GPM INSIDE HOSE PROVISION AND 400 OUTSIDE HOSE PROVISION (TOTAL OF 500 GPM HOSE PROVISION) TO PROTECT NON-EXPANDED. STABLE, CARTONED. PLASTIC COMMODITIES PER 2016 EDITION OF NFPA 13, FIGURE 15.2.2 AND TABLE 15.2.6(A) WITH COLUMN C UI

TENANT IMRPOVEMENT NOTES

- CONTRACTOR MUST VISIT THE BUILDING SITE TO DETERMINE THE FULL EXTENT OF THE EXISTING FIRE PROTECTION WORK AND EXISTING CONDITIONS, BECOME TOTALLY FAMILIAR WITH THE DISCONNECTIONS. REMOVALS. RELOCATIONS AND/OR RECONNECTIONS OF EXISTING FIRE PROTECTION EQUIPMENT REQUIRED, AND CONDITIONS IN THE PROPOSAL FOR THIS PROJECT. NO EXTRA COMPENSATION WILL BE PAID FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR ALLOWANCE.
- THE INFORMATION CONCERNING THE EXISTING FIRE PROTECTION CONTAINED ON THESE DRAWINGS IS PRESENTED HERE AS A GENERAL GUIDE ONLY. WITH NO GUARANTEE AS TO ACCURACY. VISIT THE SITE TO VERIFY EXACTLY HOW THE EXISTING CONDITIONS WILL AFFECT THE COMPLETION OF THE WORK REQUIRED FOR THIS PROJECT. AND INCLUDE THE CORRESPONDING COSTS IN THE PROPOSAL.
- CONSULT THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS, AND ALL OTHER SECTIONS OF THE DRAWINGS AND SPECIFICATIONS, IN DETAIL FOR INSTRUCTIONS PERTAINING TO THIS WORK.
- WITH THE SUBMISSION OF THIS PROPOSAL, GIVE WRITTEN NOTICE TO THE OWNER OF ANY MATERIALS OR APPARATUS BELIEVED INADEQUATE OR UNSUITABLE, BELIEVED IN VIOLATION OF LAWS, ORDINANCES, AND/OR RULES AND OF ANY NECESSARY ITEMS OF WORK OMITTED. IN THE ABSENCE OF SUCH WRITTEN NOTICE, PROVIDE ALL SUCH MATERIALS AND APPARATUS, AND BE RESPONSIBLE FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE ENTIRE FIRE PROTECTION SYSTEM, WITHOUT EXTRA COMPENSATION.
- BEFORE SUBMITTING THE PROPOSAL, ASK THE OWNER FOR A DECISION CONCERNING ANY AND ALL PLACES WHERE DRAWINGS, SPECIFICATIONS, STANDARDS, AND/OR CODES CONFLICT, OR THAT ARE NOT CLEARLY UNDERSTOOD. IN THE ABSENCE OF OBTAINING SUCH A DECISION, ABIDE BY THE DECISION OF THE OWNER, IF THE NECESSITY FOR A DECISION ARISES AFTER THE SIGNING OF THE CONTRACT.
- COORDINATE THE LOCATIONS OF ALL FIRE PROTECTION WORK WITH THE WORK OF OTHER
- NOTE CAREFULLY THAT THE FIRE PROTECTION DRAWINGS ARE INTENDED TO INDICATE, ONLY DIAGRAMMATICALLY. THE EXTENT AND THE GENERAL CHARACTER AND LOCATIONS OF THE WORK INCLUDED. PROVIDE ALL WORK OBVIOUSLY INTENDED, BUT HAVING MINOR DETAILS OMITTED OR NOT SHOWN. COMPLETE AS REQUIRED TO PERFORM THE FUNCTIONS INTENDED. FOLLOW THE ARCHITECTURAL AND/OR CONSTRUCTION SET OF DRAWINGS AND SPECIFICATIONS FOR BUILDING DETAILS AND FIT THE WORK OF THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS THERETO.
- REMOVE ALL DEBRIS TO AN APPROVED DUMPING SITE AND CLEAN ALL FIRE PROTECTION WORK PRIOR THE PROJECT COMPLETION.
- PERFORM ALL WORK ACCORDING TO THE PROJECT PHASING SCHEDULE FOR THIS PROJECT. PROVIDE ALL NECESSARY FIRE PROTECTION WORK, TEMPORARY AND/OR OTHERWISE, AND USE WHATEVER MEANS NECESSARY, TO CONFORM TO THE REQUIRED CONSTRUCTION PHASE OF THIS PROJECT.
- CONTRACTOR TO BE RESPONSIBLE FOR REPAIRING OR REPLACING ITEMS DAMAGED

DURING CONSTRUCTION.

PERTAINING TO THIS WORK.

- CONTRACTOR IS TO PATCH ALL HOLES TO MATCH ADJACENT SURFACES LEFT UNUSED AFTER EXISTING SPRINKLER PIPING OR EQUIPMENT TO BE REMOVED IS VACATED FROM
- CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING AND MAINTAINING FIRE DEPARTMENT ACCESS ROADS THROUGHOUT THE PROJECT.
- ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.

DEMOLITION NOTES

CONTRACTOR MUST VISIT THE BUILDING SITE TO DETERMINE THE FULL EXTENT OF THE EXISTING FIRE PROTECTION WORK AND EXISTING CONDITIONS, BECOME TOTALLY FAMILIAR WITH THE DISCONNECTIONS. REMOVALS, RELOCATIONS AND/OR RECONNECTIONS OF EXISTING FIRE PROTECTION EQUIPMENT REQUIRED, AND CONDITIONS IN THE PROPOSAL FOR THIS PROJECT. NO EXTRA COMPENSATION WILL BE PAID FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR ALLOWANCE.

THE INFORMATION CONCERNING THE EXISTING FIRE PROTECTION CONTAINED ON THESE DRAWINGS IS PRESENTED HERE AS A GENERAL GUIDE ONLY, WITH NO GUARANTEE AS TO ACCURACY. VISIT THE SITE TO VERIFY EXACTLY HOW THE EXISTING CONDITIONS WILL AFFECT THE COMPLETION OF THE WORK REQUIRED FOR THIS PROJECT, AND INCLUDE THE CORRESPONDING COSTS IN THE PROPOSAL.

CONSULT THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS, AND ALL OTHER SECTIONS OF THE DRAWINGS AND SPECIFICATIONS, IN DETAIL FOR INSTRUCTIONS

WITH THE SUBMISSION OF THIS PROPOSAL, GIVE WRITTEN NOTICE TO THE OWNER OF ANY MATERIALS OR APPARATUS BELIEVED INADEQUATE OR UNSUITABLE. BELIEVED IN VIOLATION OF LAWS, ORDINANCES, AND/OR RULES AND OF ANY NECESSARY ITEMS OF WORK OMITTED. IN THE ABSENCE OF SUCH WRITTEN NOTICE, PROVIDE ALL SUCH MATERIALS AND APPARATUS, AND BE RESPONSIBLE FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE ENTIRE FIRE PROTECTION SYSTEM, WITHOUT EXTRA COMPENSATION.

BEFORE SUBMITTING THE PROPOSAL, ASK THE OWNER FOR A DECISION CONCERNING ANY AND ALL PLACES WHERE DRAWINGS, SPECIFICATIONS, STANDARDS, AND/OR CODES CONFLICT. OR THAT ARE NOT CLEARLY UNDERSTOOD. IN THE ABSENCE OF OBTAINING SUCH A DECISION, ABIDE BY THE DECISION OF THE OWNER, IF THE NECESSITY FOR A DECISION ARISES AFTER THE SIGNING OF THE CONTRACT.

COORDINATE THE LOCATIONS OF ALL FIRE PROTECTION WORK WITH THE WORK OF OTHER

UNLESS INDICATED OTHERWISE, DISCONNECT AND REMOVE ALL EXISTING FIRE PROTECTION COMPONENTS NOT INTENDED TO BE REUSED.

NOTE CAREFULLY THAT THE FIRE PROTECTION DRAWINGS ARE INTENDED TO INDICATE THE GENERAL CHARACTER AND LOCATIONS OF THE WORK INCLUDED. CONTRACTOR TO PROVIDE ALL WORK OBVIOUSLY INTENDED AND COMPLETE AS REQUIRED TO PERFORM THE FUNCTIONS INTENDED. FOLLOW THE ARCHITECTURAL AND/OR CONSTRUCTION SET OF DRAWINGS AND SPECIFICATIONS FOR BUILDING DETAILS AND FIT THE WORK OF THE FIRE

PROTECTION DRAWINGS AND SPECIFICATIONS THERETO. REMOVE ALL DEMOLITION MATERIALS AND DEBRIS TO AN APPROVED DUMPING SITE AND CLEAN ALL FIRE PROTECTION WORK PRIOR THE PROJECT COMPLETION.

PERFORM ALL WORK ACCORDING TO THE PROJECT PHASING SCHEDULE FOR THIS PROJECT. PROVIDE ALL NECESSARY FIRE PROTECTION WORK, TEMPORARY AND/OR OTHERWISE, AND USE WHATEVER MEANS NECESSARY, TO CONFORM TO THE REQUIRED

CONSTRUCTION PHASE OF THIS PROJECT. CONTRACTOR TO BE RESPONSIBLE FOR REPAIRING OR REPLACING ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION.

CONTRACTOR IS TO PATCH ALL HOLES TO MATCH ADJACENT SURFACES LEFT UNUSED AFTER EXISTING SPRINKLER PIPING OR EQUIPMENT TO BE REMOVED IS VACATED FROM

CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING AND MAINTAINING FIRE DEPARTMENT ACCESS ROADS THROUGHOUT THE PROJECT.

SPRINKLER SYSTEMS NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE. ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.

APPLICABLE CODES AND STANDARDS

AUTHORITY HAVING JURISDICTION: CITY OF TOWN AND COUNTRY FIRE DEPARTMENT - OFFICE

OF THE FIRE MARSHAL PROJECT BUILDING DATA:

BUILDING STORIES: 1 STORY OCCUPANCY TYPE: CONSTRUCTION TYPE: TYPE II-B FIRE PROTECTION: **FULLY SPRINKLERED**

2018 INTERNATIONAL BUILDING CODE W/ AMENDMENTS 2018 INTERNATIONAL FIRE CODE W/ AMENDMENTS STATE OF MISSOURI AMENDMENTS CITY OF TOWN AND COUNTRY AMENDMENTS

STANDARDS: 2016 NFPA 13 - NATIONAL STANDARD FOR FIRE SPRINKLER INSTALLATION

CITY OF TOWN AND COUNTRY MUNICIPAL CODES AND STANDARDS

SHEET LIST Sheet Number FIRE PROTECTION COVER SHEET AND NOTES FIRE PROTECTION DEMO PLAN

REI GLENWOOD

TENANT IMPROVEMENT

FIRE PROTECTION CONSULTING FIRM:

7511 GREENWOOD AVENUE NORTH #600

EXPIRATION DATE: SEPTEMBER 01, 2023

GLENWOOD SPRINGS FIRE DEPARTMENT

GLENWOOD SPRINGS, CO 81604

AUTHORITY HAVING JURISDICTION:

WWW.GLENWOODFIRE.COM/440/FIRE-PREVENTION

WWW.NRGFIRECONSULTING.COM

FIRE SPRINKLER DESIGNER:

GLENWOOD SPRINGS, CO, 81601

DESIGNER OF RECORD: RICHARD G. ANDERSON III, CET, CFPS

3216 S. GLEN AVENUE

NRG FIRE CONSULTING, LLC

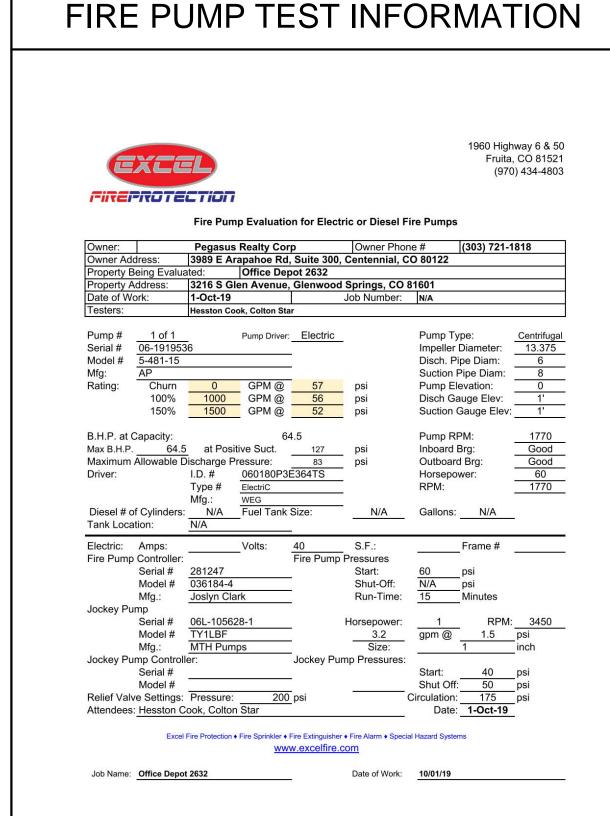
SEATTLE, WA 98103

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101 W. 8TH STREET

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OVERALL BUILDING PLAN

FIRE PROTECTION SPECIFICATIONS

SECTION 15300 - FIRE PROTECTION SPECIFICATION 1.4 QUALITY ASSURANCE WET AUTOMATIC SPRINKLER SYSTEM - TENANT IMPROVEMENT/REMODEL) PART I GENERAL .1 GENERAL CONDITIONS AND SPECIAL CONDITIONS

REQUIREMENTS, APPENDICES AND ADDENDUMS APPLY TO THE WORK UNDER THIS SECTION AS DEPICTED IN PROJECT SPECIFICATION MANUAL OR THESE PLANS. 1.2 GENERAL DESCRIPTION

BIDDING REQUIREMENTS, GENERAL CONDITIONS, GENERAL

PROVIDE A COMPLETE WET PIPE AUTOMATIC SPRINKLER (A.S.) SYSTEM

NSTALLING NEW SPRINKLERS. MODIFICATIONS SUCH AS RELOCATING SPRINKLERS AND PIPING MAY ALSO BE REQUIRED TO MEET SPACING REQUIREMENTS.

CONTRACTOR SHALL VERIFY PRIOR TO PREPARATION OF ANY

FOR THE ENTIRE PROJECT BY CONNECTING INTO THE EXISTING SYSTEM AND

DOCUMENTS, INSURANCE CARRIER AND THEIR REQUIREMENTS FOR THIS EXISTING CONDITIONS AND EXTENT OF WORK PRIOR TO SUBMITTING BID. BE ULLY INFORMED REGARDING ALL REGULATIONS AND LIMITATIONS OF THE

SPACES AVAILABLE FOR THE INSTALLATION/REMODEL OF THE A.S. SYSTEM. CONTRACTOR SHALL PROVIDE A THOROUGH AND COMPLETE NSPECTION OF EXISTING SYSTEM IN ACCORDANCE WITH NFPA 25A; INCLUDING, BUT NOT LIMITED TO:

. SPRINKLERS. 3. VALVES. . ALARMS. . FIRE DEPARTMENT CONNECTIONS.

FIRE HOSE RACKS. HANGERS. FIRE PROTECTION CONTRACTOR SHALL VERIFY WITH GENERAL CONTRACTOR REGARDING AFTER HOURS LABOR PRIOR TO BID. CHANGE ORDERS WILL NOT BE ACCEPTED FOR FAILURE TO COMPLY WITH THIS SECTION.

1.3 CODES, STANDARDS, ORDINANCES AND PERMITS ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) TANDARDS AND RECOMMENDED PRACTICES (INCLUDING APPENDICES) LISTED

NFPA-13 2013 EDITION, "STANDARD FOR THE INSTALLATION OF

SPRINKLER SYSTEMS". INTERNATIONAL FIRE CODE 2012 EDITION.

NECESSARY FOR CONDUCTING THIS WORK.

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ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO ALL LOCAL, A. AND PROVINCIAL CODES AS WELL AS ALL OTHER AUTHORITY HAVING JURISDICTIONS. IF MORE CURRENT EDITIONS OF AFOREMENTIONED STANDARDS, OR ADDITIONAL STANDARDS ARE REQUIRED, THEN THEY SHALL BE

IF THERE IS A CONFLICT BETWEEN THE REFERENCES STANDARDS CODES, OR AUTHORITY HAVING JURISDICTIONS: THEN IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BRING THE CONFLICT TO THE ATTENTION OF (BY AUTHORITY HAVING JURISDICTIONS) AND UNKNOWN FIELD CONDITIONS ADDITIONAL WORK. THIS CONFLICT SHALL BE RESOLVES AT NO ADDITIONAL COST TO THE OWNER.

PAYING ALL FEES AND SECURING ALL PERMITS. INSPECTIONS AND APPROVALS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL DOCUMENTS. AUTHORITY HAVING JURISDICTIONS.

A. INSTALLER QUALIFICATIONS: INSTALLATION AND ALTERATIONS OF FIRE 2.2 SPRINKLERS PROTECTION PIPING, EQUIPMENT, SPECIALITIES, ACCESSORIES, AND REPAIR OF SERVICING OF EQUIPMENT SHALL BE PERFORMED ONLY BY A QUALIFIED INSTALLER. THE TERM QUALIFIES MEANS EXPERIENCES IN SUCH WORK (EXPERIENCED SHALL MEAN HAVING A MINIMUM OF 5 PREVIOUS PROJECT SIMILAR IN SIZE AND SCOPE TO THIS PROJECT), FAMILIAR WITH ALL PRECAUTIONS REQUIRED AND HAS COMPLIED WITH ALL THE REQUIREMENTS OF B. THE AUTHORITY HAVING JURISDICTIONS. INSTALLER SHALL BE LICENSED WITH THE PROVINCIAL AND LOCAL AUTHORITY HAVING JURISDICTIONS. SUBMIT EVIDENCE OF SUCH QUALIFICATIONS TO THE OWNER OR HIS AGENT WITH

SUBMISSION OF THIS BID.

1.5 DEFINITIONS CONTRACTOR: THE FIRE PROTECTION CONTRACTOR AND ANY OF THEIR SUB-CONTRACTORS, VENDORS, SUPPLIERS, OR FABRICATORS.

PROVIDE: FURNISH AND INSTALL FURNISH: PURCHASE AND DELIVER TO THE OTHER TRADES OR OWNER FOR INSTALLATION.

CONTRACTOR WILL HE HELD TO HAVING VISITED THE SITE TO DETERMINE D. INSTALL: INSTALL MATERIALS, EQUIPMENT OR ASSEMBLIES FURNISHED BY OTHER TRADES OR OWNER. CONCEALED: WHERE USED IN CONNECTION WITH INSTALLATION OF PIPING AND ACCESSORIES. SHALL MEAN THAT HIDDEN FROM SIGHT AS IN CHASED, FURRED SPACES, PIPE SHAFTS, OR SUSPENDED CEILINGS. "EXPOSED"

> SHALL MEAN "NOT CONCEALED" AS DEFINED ABOVE. A. WITHIN 30 DAYS AFTER AWARD OF CONTRACT, THE CONTRACTOR SHALL MANUFACTURER, SIZE OF THE VALVE, AND UL OR FM IDENTIFICATION MARK. ALL SUBMIT SIX (6) MANUFACTURER'S DATA SHEETS, CATALOG CUT SHEETS AND

DATA ON DEVICES FOR ALL NECESSARY APPROVALS PRIOR TO FABRICATION OF LOCATED WITHIN 6'-0" OF FLOOR ACCESS. ANY MATERIALS AND/OR PIPING. B. CONTRACTOR SHALL SUBMIT COMPLETE PACKAGES. PARTIAL SUBMITTALS WILL BE RETURNED WITHOUT FURTHER EXPLANATION.

CONTRACTOR'S FAILURE TO ALLOW SUFFICIENT TIME FOR REVIEW AND

NO EXTENSION OF THE CONTRACT TIME WILL BE GRANTED FOR THE

PROCESSING, OR FOR SUBMITTALS WHICH HAVE BEEN RETURNED FOR IMPROPER SUBMISSION. D. THE CONTRACTOR WILL NOT BE AUTHORED TO START ANY PORTION OF THE WORK UNTIL THE CATALOG CUTS AND OTHER REQUIRED SUBMITTALS FOR 3.2 THAT PORTION ARE RECEIVED, REVIEWED, AND APPROVED BY ALL REQUIRED

PART II PRODUCTS

2.1 SPRINKLER SYSTEM COMPONENTS - GENERAL ALL EQUIPMENT AND SYSTEM COMPONENTS FURNISHED AND INSTALLED SHALL BE NEW AND UNUSED, OF FIRST QUALITY, AND BE LISTED BY UNDERWRITERS LABORATORIES INC. AND APPROVED BY FACTORY MUTUAL FOR SHALL BE SUBJECT TO OWNER'S APPROVAL. THEIR INTENDED USE. ALL SUCH EQUIPMENT AND SYSTEM COMPONENTS SHALL BE INSTALLED WITHIN THE LIMITATIONS OF THE RESPECTIVE UL LISTINGS OR FM D.

B. ADDITIONAL WORK THAT MAY BE REQUIRES, DUE TO FIELD INSPECTIONS E. ALL SPRINKLERS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE HE OWNER IMMEDIATELY FOR RESOLUTION PRIOR TO COMMENCEMENT OF ANY ABOVE AND BEYOND WHAT IS SHOWN IN THIS DESIGN, IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND MAKE FIELD ADJUSTMENTS AS NECESSARY FOR FIELD ACCEPTANCE BY ALL

> ENTIRE A.S. SYSTEM SHALL BE INSTALLED PER NFPA-13. C.B.C., AND ALL AUTHORITY HAVING JURISDICTIONS' REQUIREMENTS.

E. PIPE HANGERS SHALL BE SPACES AS SHOWN AND/OR PER NFPA-13.

SPRINKLERS SHALL BE OF THE LISTED AUTOMATIC, GLASS BULB TYPE, AND SHALL BE DISTRIBUTED THROUGHOUT THE BUILDING PER CODE AND

AREA OF WORK

APPROVED CONSTRICTION DOCUMENTS. SPRINKLERS REQUIRED DUE TO CEILING PROJECTIONS/OBSTRUCTIONS AND DUCTWORK ARE NOT CONSIDERED ADDITIONAL SPRINKLERS. CONTRACTOR I. SHALL BE RESPONSIBLE FOR IDENTIFYING THESE LOCATIONS.

SPRINKLERS IN FINISHED CEILING AREAS SHALL BE SPRINKLERS IN

PENDENT POSITION WITH ESCUTCHEON ASSEMBLY OR EQUAL TYPE TO THAT OF A.

INSTALL ORDINARY, INTERMEDIATE AND HIGH TEMPERATURE SPRINKLERS OF PROPER DEGREE RATING WHEREVER NECESSARY TO MEET REQUIREMENTS OF NFPA, INSURANCE CARRIER, AND LOCAL AUTHORITIES.

SPRINKLER SYSTEM PIPING OR TUBING SHALL MEET THE REQUIREMENTS B. ALL EXPOSED PIPE WHICH PASSES THROUGH A WALL, CEILING OR FLOOR OF NFPA-13. CONTRACTOR SHALL BASE HIS BID ON THE USE OF SCHEDULE 40 AND SCHEDULE 10 BLACK STEEL. USE OF FOREIGN MADE MATERIALS ARE NOT

PERMITTED FOR THIS APPLICATION.

EXCEPT FOR MISCELLANEOUS SMALL VALVES, ALL VALVES SHALL BE PLAINLY MARKED WITH THE NAME OR REGISTERED TRADEMARK OF THE VALVES SHALL BE SUITABLE FOR 175 PSI WORKING WATER PRESSURE. AND BE

PART IIIEXECUTION

INSTALLATION GENERAL

THE MANUFACTURER SHALL BE USED.

3.1 STARTING AND COMPLETION DATES THE SCHEDULE FOR INSTALLATION OF THE SPRINKLER SYSTEMS WILL BE C. IF, WHEN THE OWNER'S CONSULTANT OR ANY OTHER AUTHORITY HAVING ESTABLISHED BY THE OWNER/ARCHITECT AND OR GENERAL CONTRACTOR. COORDINATE SCHEDULE CLOSELY WITH OWNER/ARCHITECT VIA GENERAL

ALL HOLES MADE BY THE CONTRACTOR IN ANY WALL, CEILING OR FLOOR PAYMENTS BY THE OWNER TO THE CONTRACTOR. SHALL BE PATCHED BY THE CONTRACTOR, RESTORING THE WALL, CEILING OR D. FINAL APPROVAL AND ACCEPTANCE OF THE WORK WILL BE GIVEN UPON FLOOR TO ITS ORIGINAL CONDITION, FIRE RESISTANCE AND INTEGRITY. B. REMOVAL AND REPAIR OF ALL FINISHED SURFACES SHALL BE COORDINATED WITH THE ARCHITECT AND SUBJECT TO HIS APPROVAL.

LOCATION OF ALL EQUIPMENT, CONTROLS, PIPING, VALVES AND DRAIN STANDARD METAL SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH

WITH MANUFACTURER'S INSTRUCTIONS. ALL SPECIAL TOOLS RECOMMENDED BY

BOTH TO THE AUTHORITY HAVING JURISDICTIONS AND THE BUILDING OWNER.

CONTRACTOR IS RESPONSIBLE FOR FIELD QUALITY OF THE NEW WORK.

COMPLETION OF ALL WORK AND UPON TESTING AND INSPECTION OF SYSTEM BY ALL AUTHORITY HAVING JURISDICTION.

3.4 GUARANTEE PERIOD

SUBSTANTIAL COMPLETION. END OF SECTION

FIRE PUMP ROOM

(WET AUTOMATIC SPRINKLER SYSTE, - TENANT IMPROVEMT/REMODEL)

CONTRACTOR IS RESPONSIBLE FOR: FIELD FIT OF PIPING, ACCURACY OF PRE-FABRICATED PIPE, LOCATION OF SPRINKLERS (PET NFPA AND INSPECTIONS),

H. CONTRACTOR SHALL COORDINATION LOCATION OF PIPING AND

SPRINKLERS WITH STRUCTURE, DUCTWORK, MECHANICAL EQUIPMENT, CEILING

LIGHTING, ETC. MAKE FIELD ADJUSTMENTS NECESSARY TO COMPLY WITH CODE

REQUIRED FOR THIS DESIGN, FROM FLOOR TO TOP OF STORAGE. STORAGE

WHERE SPRINKLER PIPING IS INSTALLED IN FINISHED AREAS, THE

FINISHED CEILINGS, PROVIDE A MINIMUM SEPARATION OF 12" BETWEEN THE

OF A WINDOW, DOORWAY, STAIRWAY OR PASSAGEWAY, AND SHALL NOT

INTERFERE WITH THE OPERATION OF ACCESSIBILITY OF ANY MECHANICAL.

PLUMBING, OR ELECTRICAL EQUIPMENT. RUN PIPING HORIZONTALLY AND AT

NEW SPRINKLERS. ROUTE NEW BRANCH LINES AS NECESSARY PER NFPA-13.

PROCEDURES SPECIFIED, AND RETEST REPAIRED PORTIONS(S) OF THE SYSTEM

JURISDICTIONS VISIT THE JOBSITE FOR THIS PURPOSE AFTER BEING ADVISED BY

THE CONTRACTOR THAT THE WORK IS COMPLETED AND READY FOR TEST, THE

CONSULTANT'S EXTRA TIME AND EXPENSES FOR REINSPECTION AND WITNESSING

THE RETESTING OF THE WORK. SUCH EXTRA FEES SHALL BE DEDUCTED FROM

A. THE CONTRACTOR SHALL GUARANTEE IN WRITING ALL MATERIALS, AND

WORKMANSHIP FOR A PERIOD OF ONE YEAR BEGINNING WITH THE DATE OF

WORK HAS NOT BEEN COMPLETED, OR THE FINAL ACCEPTANCE TESTS ARE

UNSATISFACTORY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR

B. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH ALL AUTHORITY

HAVING JURISDICTION FOR FINAL INSPECTION AND WITNESSING THE FINAL

ALL NEW 1 INCH DROPS SHALL BE CONNECTED TO EXITING OR NEW 1'

CEILING HEIGHT AND THE BOTTOM OF THE SPRINKLER PIPE. PIPE INSTALLED IN

CONTRACTOR SHALL INSTALL ALL NEW PIPING SO THAT IT IS CONCEALED ABOVE

POST ALL PILE STORAGE AREAS LIMITING THE STOCK PILE HEIGHTS, AS

PROVIDE 18" MINIMUM CLEARANCE FROM SPRINKLER DEFLECTORS TO TOP

ALL PIPING SHALL BE INSTALLED SO AS NOT TO OBSTRUCT ANT PORTION

MAKE ADDITIONAL TAP(S), AS NECESSARY, INTO CROSS MAINS ONLY FOR

REPLACE PIPING SYSTEM COMPONENTS WHICH DO NOT PASS THE TEST

PIPING ELEVATIONS AND ALL DIMENSIONING.

3.2 INSTALLATION OF PIPING AND SPRINKLERS

THE UNFINISHED AREAS MAY BE EXPOSED.

RIGHT ANGLES TO WALLS AND CEILINGS.

3.3 FINAL INSPECTION AND TESTS

ACCEPTANCE TESTS

SHALL BE PROVIDED WITH EXCUTHEON PLATES.

SPACING PER NFPA-13.

OF STORAGE.

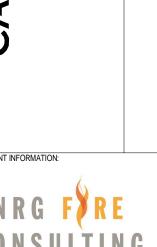
HEIGHT NOT TO EXCEED 12'-0" A.F.F.

CODE REFERENCED:

FIRE PROTECTION PIPING PLAN - TENANT IMPROVEMENTS

FIRE PROTECTION DETAILS

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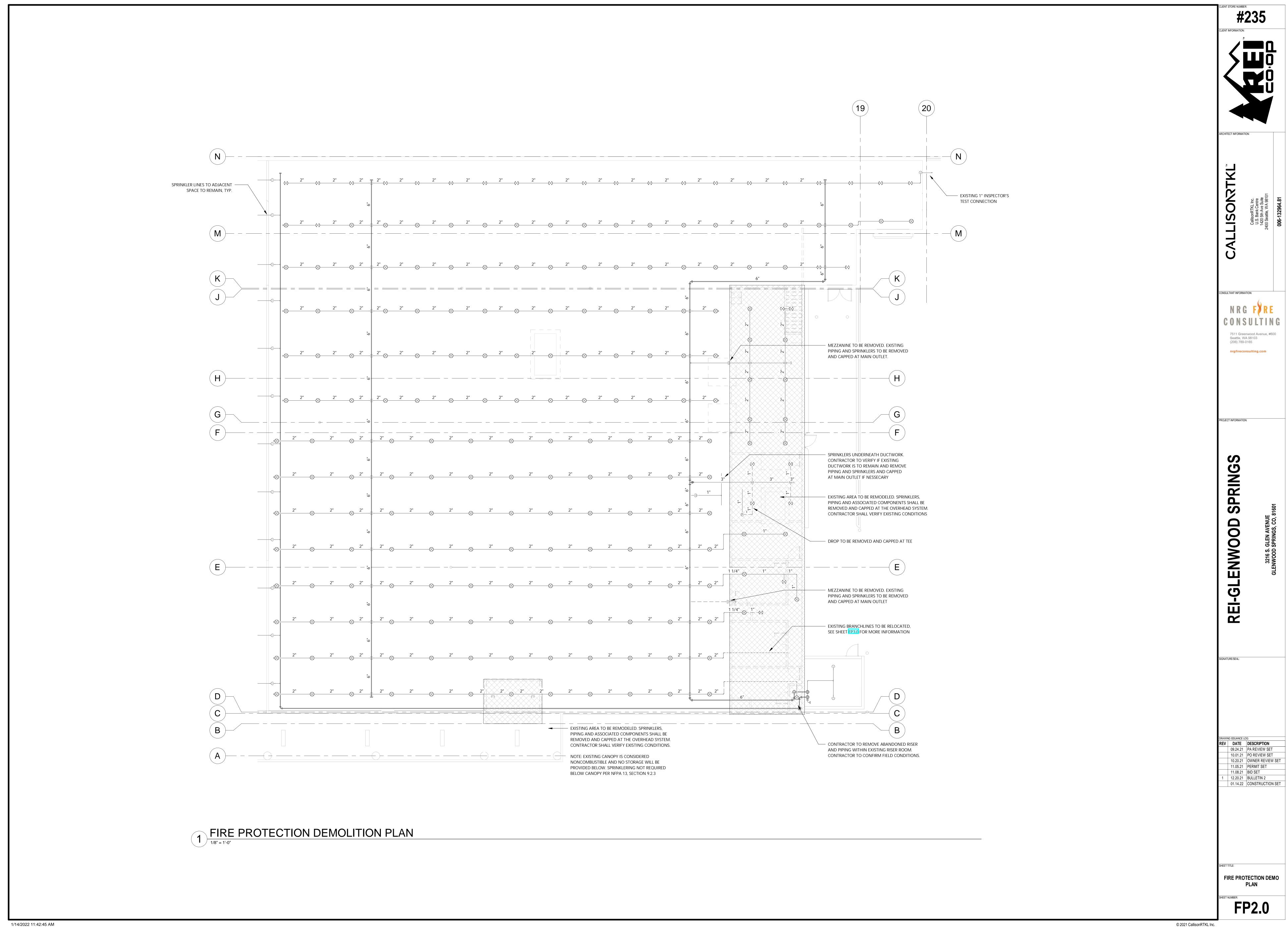
OJECT INFORMATION:

GNATURE/SEAL:

V DATE DESCRIPTION 09.24.21 PA REVIEW SET 10.01.21 PO REVIEW SET 10.20.21 OWNER REVIEW SET 11.05.21 | PERMIT SET 11.08.21 BID SET 12.20.21 BULLETIN 2

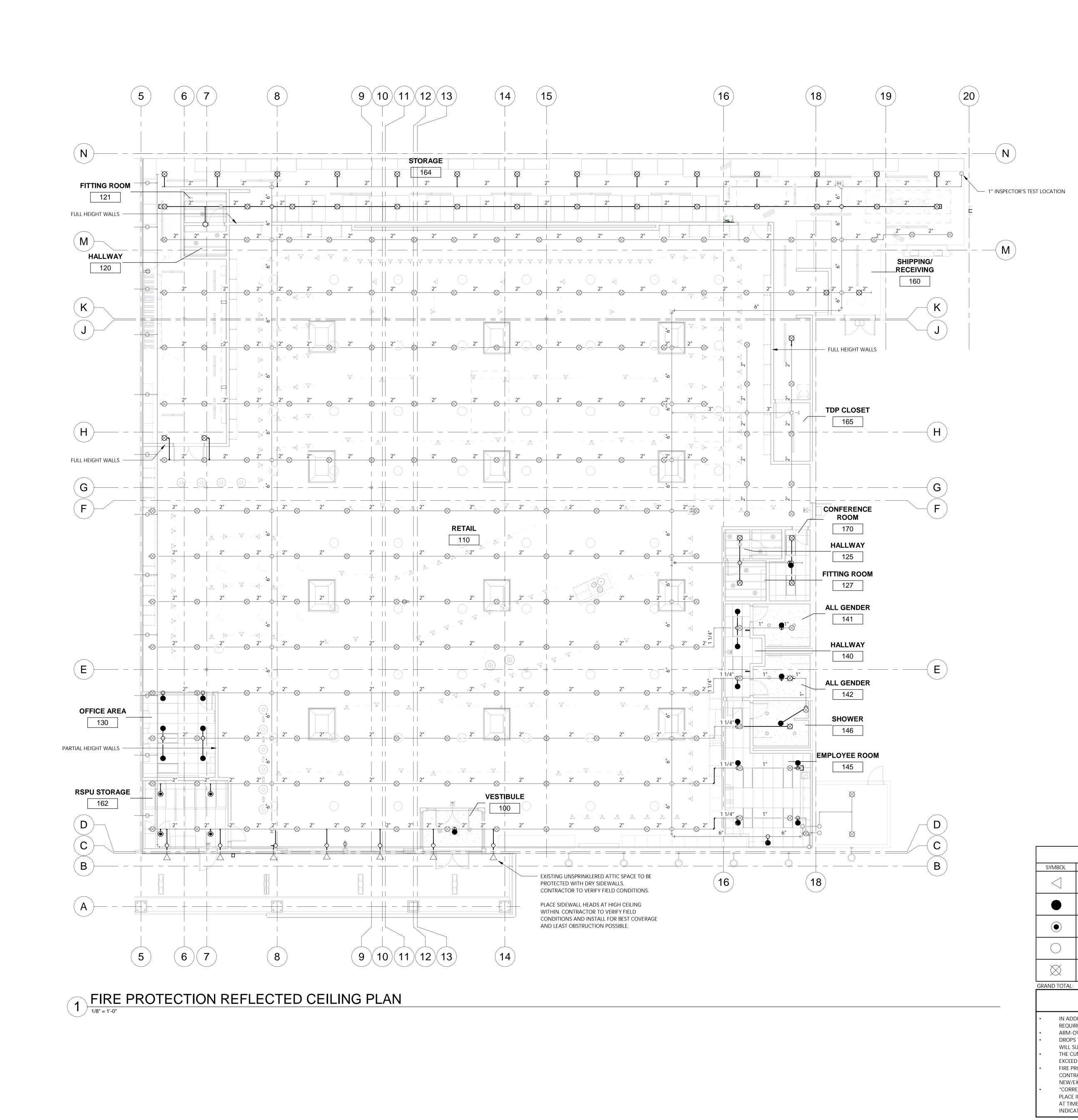
01.14.22 | CONSTRUCTION SET

FIRE PROTECTION COVER SHEET AND NOTES



FP2.0

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FIRE SPRINKLER LEGEND SDWL Deep 200 °F SSP 200 °F 200 °F 286 °F

NOTES TO THE CONTRACTOR

- IN ADDITION TO THE SPRINKLER QUANTITIES NOTED, ADDITIONAL SPRINKLERS OF EACH TYPE WILL BE REQUIRED PER NFPA 13
- REQUIREMENTS.
- ARM-OVER PIPING AND/OR DROPS SHALL BE 1-IN. SCHEDULE-40 PIPING, UNLESS NOTED OTHERWISE. DROPS TO NEW SPRINKLERS SHALL MATCH EXISTING OVERHEAD LINES, UNLESS CONTRACTORS' CALCULATIONS PROVE SMALLER PIPING
- THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARM-OVER TO A SPRINKLER, SPRINKLER DROP, OR A SPRIG UP SHALL NOT EXCEED 24-IN. FOR STEEL PIPING. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL PENDENT SPRINKLER LOCATIONS WITH MECHANICAL AND LIGHT/ELECTRICAL CONTRACTORS AS REQUIRED. COORDINATION MAY REQUIRE THE ADJUSTMENT OF EXISTING/NEW SPRINKLERS OR THE RELOCATION OR
- NEW/EXISTING LIGHTING. A COORDINATION MEETING WITH THE TRADES AND THE GC IS RECOMMENDED. *CORRECT SPRINKLER LOCATIONS AND/OR QUANTITIES IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. CONTRACTOR SHALL PLACE IN THEIR BID AS A SEPARATE LINE ITEM EXTRA QUANTITY OF SPRINKLERS. COST OF EXTRA SPRINKLERS SHALL BE ACCOUNTED FOR AT TIME OF BID, CONTRACTOR WILL NOT BE AWARDED COST OF EXTRA SPRINKLERS AFTER BID APPROVAL, UNLESS OWNER CHANGES INDICATE OTHERWISE.

FIRE PROTECTION PIPING PLAN - TENANT **IMPROVEMENTS** FP3.0

REV DATE DESCRIPTION

09.24.21 PA REVIEW SET

01.14.22 CONSTRUCTION SET

1/14/2022 11:42:49 AM

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#235

DNSULTANT INFORMATION:

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PROJECT INFORMATION:

SPRINGS

SCORE MARK

FIRE PROTECTION DETAILS

FP4.0

/--- UPRIGHT SPRINKLER HANGER ROD — (IF REQUIRED) - UPRIGHT SPRINKLER → SPRIG-UP - BRANCHLINE ARM-OVER (PER PLAN) -PIPE RING —— (IF REQUIRED) SPRINKLER DETAIL - UPRIGHT NOT TO SCALE

