FIRE PROTECTION SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- NUMBER OF DETAIL ON SHEET
- NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room 1 — ROOM NAME AND NUMBER
- 2" — OR — (E)-2" — PIPE SIZE TAG (DIAMETER). "E" DENOTES "EXISTING"
- ABOVE GROUND PIPING
- PIPE SLOPE TAG
- 1/8" / 12" SLOPE — BELOW GROUND PIPING
- INV. ELEV.-5' - 1" — PIPE INVERT ELEVATION TAG
- PIPE DROP
- PIPE RISE
- PIPE TEE
- CAP
- EXISTING SPRINKLER TO REMAIN
- EXISTING PIPING TO REMAIN
- EXISTING SPRINKLER TO BE DEMOLISHED
- EXISTING PIPING TO BE DEMOLISHED
- CONNECT TO EXISTING
- DEMO AT THIS POINT
- 1 — HYDRAULIC CALC NODES

FIRE PROTECTION GENERAL NOTES

NO EXCLUSIONS FROM OR LIMITATIONS IN THE LANGUAGE USED IN THE CONTRACT DOCUMENTS SHALL BE INTERPRETED AS MEANING THAT THE EQUIPMENT, APPURTENANCES, AND/OR ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM ARE NOT TO BE PROVIDED AS REQUIRED. THE SEPARATE DIVISIONAL CONTRACT DOCUMENTS DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE THE WORK WHICH IS INDICATED ON ANY OF THE DIVISIONAL CONTRACT DOCUMENTS. REVIEW AND COORDINATE THE SCOPE OF WORK WITH ALL DOCUMENTS AND TRADES TO ASSURE A COMPLETE AND FUNCTIONAL SYSTEM IS BID AND INSTALLED.

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED TO COMMENCE AND COMPLETE FIRE PROTECTION WORK.

SUBMIT FULL SUBMITTALS OF ALL FIRE PROTECTION EQUIPMENT AND MATERIALS TO THE ENGINEER FOR REVIEW, WHETHER IT IS EXACTLY AS SPECIFIED OR NOT. FOR ALL EQUIPMENT WHICH HAS BEEN SCHEDULED DIRECTLY ON THE DESIGN DRAWINGS, PROVIDE WITHIN THE SUBMITTAL A PERFORMANCE SCHEDULE FOR THE PROPOSED EQUIPMENT IN THE SAME FORMAT AS INCLUDED ON THE DRAWINGS. FAILURE TO PROVIDE REQUIRED PERFORMANCE SCHEDULE WILL RESULT IN REJECTION OF THE ENTIRE SUBMITTAL.

BIND COMPLETE SUBMITTALS IN A THREE RING BINDER(S) WITH A TITLE SHEET AND IDENTIFICATION ON FRONT AND SIDE OF THE BINDER. CONTACT ENGINEER FOR PRIOR APPROVAL TO SUBMIT PDF EMAILED SUBMITTALS. SUBMIT ALL FIRE PROTECTION PRODUCTS SUBMITTALS ALL AT ONE TIME. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED FOR REVIEW AND APPROVAL. INDEX ALL ITEMS AS APPLICABLE. SUBMITTALS THAT DEVIATE FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL LIST ALL DIFFERENCES IN A COVER LETTER ATTACHED TO FRONT OF THE SUBMITTAL. ANY UNLISTED DEVIATIONS FOUND DURING REVIEW WILL RESULT IN THE REJECTION OF THE ENTIRE SUBMITTAL. FOR ITEMS REVIEWED AND MARKED "REJECTED" OR "REVISE AND RESUBMIT", ONLY ONE ADDITIONAL RE-SUBMITTAL WILL BE REVIEWED TO VERIFY PRODUCT COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOULD FURTHER SUBMITTALS BE REQUIRED BY THE ENGINEER TO VERIFY THE SUBMITTAL WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE HOURLY RATE OF $150.00 WILL BE BILLED TO THE CONTRACTOR FOR THE ENGINEER'S TIME SPENT ON THE REVIEW.

THE CONTRACT DOCUMENTS AND SUBMITTALS OF ALL TRADES SHALL BE COORDINATED AND BE VIEWED IN CONNECTION AND CONJUNCTION WITH EACH OTHER TO INSURE THE PROPER LOCATION AND INSTALLATION OF ALL DEVICES AND EQUIPMENT. MAKE PARTICULAR NOTE OF LOCATIONS AND DIMENSIONS SHOWN ON THE ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.

FIRE PROTECTION DRAWINGS INDICATE THE SCHEMATIC LAYOUT AND LOCATION OF THE FIRE PROTECTION SYSTEM COMPONENTS. UNLESS SPECIFIC DIMENSIONS ARE NOTED, THE ACTUAL LOCATION OF THESE COMPONENTS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR IN COORDINATION WNITH THE WORK OF OTHER TRADES, THE USE OF MANUFACTURER'S SUBMITTALS, AND SIMILAR CERTIFIED DATA.

CONTRACTOR SHALL CONDUCT A THOROUGH SITE VISIT INSPECTION PRIOR TO BID TO EXAMINE THE EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO MAIN PIPING, BRANCHES, VALVES, ETC. AND NOTIFY ARCHITECT AND OWNER THEIR EXISTING CONDITIONS AND IF REPLACEMENT WILL BE REQUIRED.

THE SCHEDULING OF ALL WORK AND SHUTDOWNS OF ALL EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER TO THEIR SATISFACTION. THE OWNER RESERVES THE RIGHT TO DENY THE USE OF ANY TOOLS DUE TO NOISE.

INSTALL AND TEST ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN ADEQUATE SERVICE SPACE AS REQUIRED. SERVICE SPACE SHALL BE CLEAR OF DUCTS, PIPES, CONDUITS, WALL STUDS, CEILING HANGERS, AND ANY OTHER CONSTRUCTION APPURTENANCE.

CONTRACTOR SHALL COORDINATE AND PROVIDE ALL CEILING/FLOOR/WALL ACCESS PANELS THAT MAY BE REQUIRED FOR THE INSTALLATION, INSPECTION, AND SERVICE OF FIRE PROTECTION EQUIPMENT WHETHER OR NOT IT IS SHOWN. ACCESS PANELS TO BE SELECTED BY THE ARCHITECT.

ALL FIRE PROTECTION EQUIPMENT SHALL BE LABELED WITH ENGRAVED, LAMINATED, PLASTIC SIGNS. SIGNS SHALL BE 1/8" THICK AND A MINIMUM OF 1-3/4" HIGH WITH 1" HIGH LETTERS. LENGTH OF THE SIGN SHALL BE THE SUM OF THE LETTERS/NUMBERS PLUS 3/4" ON EACH END. EXTERIOR SIGNS SHALL BE UV RATED, DESIGNATED AND MANUFACTURED TO BE EXPOSED TO THE ELEMENTS.

LOCATION OF FIRE PROTECTION SENSORS SHALL BE COORDINATED WITH THE OTHER TRADES FOR A NEAT APPEARANCE. FINAL LOCATION OF THE SENSORS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

AT PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 8 HOURS OF TRAINING ON THE OPERATION AND MAINTENANCE OF THE FIRE PROTECTION EQUIPMENT.

CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON PARTS AND LABOR FROM THE DATE OF SUBSTANTIAL COMPLETION.

FOR SEALING OF PIPE PENETRATION THROUGH FIRE RATED WALLS, REFER TO ARCHITECTURAL CONTRACT DOCUMENTS. ALL RATED WALL PENETRATIONS SHALL BE SEALED USING APPROVED UL DETAILS. PENETRATIONS SHALL BE MADE AT A 90 DEGREE ANGLE.

PROVIDE ADDITIONAL PIPING SUPPORTS ON BOTH SIDES AND WITHIN 18" OF FIRE RATED WALLS. PIPING SHALL NOT BE SUPPORTED FROM ANY FIRE RATED WALL. CORRECT EXISTING CONDITIONS.

ALL PIPING MUST BE INSTALLED 6" AWAY FROM ANY FIRE RATED WALL. CORRECT EXISTING CONDITIONS.

CONTRACTOR SHALL TEST ALL FIRE PROTECTION EQUIPMENT AND FIRE ALARM CONNECTIONS AND REPORT ANY DEFICIENCIES TO OWNER. RETEST AS REQUIRED UNTIL ALL ARE FUNCTIONAL. TEST SHALL BE IN ACCORDANCE WITH ALL CODES.

ALL FIRE PROTECTION SYSTEM COMPONENTS SHALL BE FM APPROVED, UL LISTED FOR INTENDED USE, AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ORDERING. PROVIDE STATEMENT IN THE SUBMITTALS INDICATING THIS HAS OCCURRED.

MAIN PIPING SHALL BE GROOVED SCHEDULE 10 BLACK STEEL WITH GROOVED FITTINGS, BRANCH PIPING SHALL BE THREADED SCHEDULE 40 WITH THREADED CAST IRON FITTINGS OR GROOVED SCHEDULE 10 BLACK STEEL WITH GROOVED FITTINGS . ALL FITTINGS AND DEVICES ON PUMP DISCHARGE SUPPLY SIDE SHALL BE RATED FOR 300 PSI. ALL FITTINGS AND DEVICES ON DISCHARGE SIDE OF FLOOR CONTROL PRESSURE REDUCING VALVE CAN BE RATED FOR 175 PSI.

SPRINKLER PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.

COORDINATE SPRINKLER PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY SPRINKLER PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY SPRINKLER PIPING RUN OVER ELECTRICAL PANELS/EQUIPMENT SHALL BE REROUTED AT NO ADDITIONAL COST TO THE OWNER.

ALL FIRE PROTECTION HANGERS SHALL BE WITHIN 12 INCHES OF THE HEAD. ALL HANGERS SHALL INCLUDE UPLIFT RESTRAINTS.

FIRE PROTECTION GENERAL NOTES CONT.

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.

SPRINKLERS SHALL BE CENTERED IN THE CEILING TILE AS INDICATED ON THE DRAWINGS. PROVIDE RETURN BENDS OR SWING JOINTS AS REQUIRED.

SPRINKLERS SHALL BE COORDINATED WITH ALL CEILINGS, LIGHTS, DIFFUSERS, SPEAKERS, FIRE ALARM DEVICES, AND MISCELLANEOUS CEILING SYSTEMS. SPACING OF SPRINKLERS SHALL BE IN ACCORDANCE WITH REQUIRED CODES AND THE LISTING OF THE SPRINKLER.

THE DISTANCE FROM WALLS TO SPRINKLER HEADS SHALL NOT EXCEED ONE-HALF OF THE ALLOWABLE DISTANCE BETWEEN SPRINKLERS. SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF SIX INCHES (6") FROM WALLS, SOFFITS, SURFACE MOUNTED LIGHTS, ETC. OR OBSTRUCTION RULES PER NFPA 13.

PROVIDE SPRINKLER CAGES ON ALL EXPOSED SPRINKLER HEADS IN ELECTRIC ROOMS, MECHANICAL ROOMS, IDF ROOMS, JANITOR ROOMS, AND ON ANY SPRINKLER HEAD LESS THAN 7'-0" ABOVE FLOOR.

A MINIMUM OF EIGHTEEN INCHES (18") CLEARANCE SHALL BE MAINTAINED BETWEEN TOP OF STORAGE AND CEILING SPRINKLER DEFLECTORS.

COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND FURNISH EQUIPMENT WIRED FOR THE REQUIRED VOLTAGE. COORDINATE ALL POWER AND FIRE ALARM CONNECTIONS REQUIRED WITH THE ELECTRICAL CONTRACTOR. PROVIDE STATEMENT IN THE SUBMITTALS INDICATING THIS HAS OCCURRED.

COORDINATE PIPE ROUTING WITH COLUMNS AND COLUMN DROP PANELS AS REQUIRED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DROP PANELS DETAIL AND LOCATIONS.

SPRINKLERS LOCATED IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH THE DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY ON FIRE PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW BOTTOM OF THE FIRE PROOFING.

FLOW AND TAMPER SWITCHES SHALL BE WIRED TO THE BUILDING FIRE ALARM SYSTEM. REFER TO THE ELECTRICAL DRAWINGS FOR THE FIRE ALARM SYSTEM.

UNLESS DIRECTED OTHERWISE, CONTRACTOR SHALL COORDINATE ALL EXPOSED PIPING COLOR WITH ARCHITECT TO MATCH CEILING AND/OR WALL COLOR.

PROVIDE SPRINKLERS UNDER ALL OBSTRUCTION OVER 48" WIDE AND SPACE SPRINKLERS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. SPRINKLERS ARE NOT INDICATED ON THE DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13. SPRINKLER LOCATIONS UNDER OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS OF THE OBSTRUCTION.

FIRE PROTECTION CONTRACTOR MUST COORDINATE ALL SHOP DRAWINGS WITH MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTOR PRIOR TO SUBMISSION OF SHOP DRAWINGS.

AUXILIARY DRAINS SHALL BE PROVIDED WHERE A CHANGE OF PIPING DIRECTION (ELEVATION) PREVENTS DRAINAGE OF SYSTEM PIPING THROUGH THE MAIN DRAIN VALVE. COORDINATE ACCESS PANELS DIMENSION AND LOCATION REQUIRED WHEN HARD CEILING WITH ARCHITECT.

CONTRACTOR SHALL COORDINATE AND PROVIDE ALL CEILING/FLOOR/WALL ACCESS PANELS THAT MAY BE REQUIRED FOR THE INSTALLATION, INSPECTION, AND SERVICE OF FIRE PROTECTION EQUIPMENT WHETHER OR NOT IT IS SHOWN. ACCESS PANELS TO BE SELECTED BY THE ARCHITECT.

PROVIDE FULLY CONCEALED PENDENT SPRINKLERS IN ALL AREAS WITH HARD AND/OR TILED CEILING. CONTRACTOR SHALL CONFIRM AND COORDINATE SPRINKLER TYPES TO BE USED WITH OWNER AND/OR ARCHITECT.

FIRE PROTECTION CODE CRITERIA

THE FOLLOWING IS A LIST OF ALL CODES ADOPTED DECEMBER 31, 2020 BY THE STATE FIRE MARSHALL'S RULE 69A3.012 F.A.C.:

- FLORIDA BUILDING CODE 7TH EDITION (2020) - ALL SECTIONS
- FLORIDA ENERGY EFFICIENCY CODE (FBC 2020), FLORIDA ENERGY CODE SOFTWARE: ENERGYGAUGE SUMMIT VERSION 7.00
- FLORIDA FIRE PREVENTION CODE 7TH EDITION (2020)

69A-3.012 STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION ADOPTED.
(1) EXCEPT AS SPECIFICALLY MODIFIED BY STATUTE OR BY THE STATE FIRE MARSHAL'S RULES, THE "FLORIDA FIRE PREVENTION CODE, 7TH EDITION (2020)," WHICH IS COMPRISED OF THE FLORIDA SPECIFIC EDITION OF NFPA 101, THE LIFE SAFETY CODE (2018 EDITION) AND THE FLORIDA SPECIFIC EDITION OF NFPA 1, THE FIRE CODE (2018 EDITION), ARE HEREBY ADOPTED AND INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THOSE BUILDINGS AND STRUCTURES SPECIFIED IN PARAGRAPHS (A) AND (B) OF SUBSECTION (1) OF SECTION 633.206, F.S. IN ADDITION, THE FOLLOWING STANDARDS, EXCEPT AS SPECIFICALLY MODIFIED IN THE RULE CHAPTERS IN RULE TITLE 69A, ARE HEREBY ADOPTED AND INCORPORATED BY REFERENCE AND SHALL TAKE EFFECT ON THE EFFECTIVE DATE OF THIS RULE, AS A PART OF THE UNIFORM FIRE SAFETY STANDARDS ADOPTED BY RULE BY THE STATE FIRE MARSHAL AND ARE APPLICABLE TO THOSE BUILDINGS AND STRUCTURES SPECIFIED IN PARAGRAPHS (A) AND (B) OF SUBSECTION (1) OF SECTION 633.206, F.S.:

- NFPA 13, 2016 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- NFPA 25, 2017 EDITION, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
- NFPA 70, 2017 EDITION, NATIONAL ELECTRIC CODE
- NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE
- NFPA 241, 2015 EDITION, STANDARD FOR SMOKE AND HEAT VENTING

OTHER:

- LOCAL CODES AND ORDINANCES

NOTE: TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THESE FIRE PROTECTION DESIGN DRAWINGS COMPLY WITH THE ABOVE CODE CRITERIA. WHEN TWO OR MORE CODES OR STANDARDS ARE IN CONFLICT, THE MORE STRINGENT SHALL APPLY.

FIRE PROTECTION DESIGN CRITERIA

FAC CHAPTER 61G15-32 DESIGN OF FIRE PROTECTION SYSTEMS

61G15-32.003:

(1) ENGINEERING REQUIREMENTS:
THESE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS (ENGINEER OF RECORD) INDICATE THE NATURE AND SCOPE OF THE WORK, AND DESCRIBE, DETAIL, DIMENSION, LABEL AND DEFINE THE FIRE PROTECTION COMPONENTS, SYSTEMS(S), MATERIALS, ASSEMBLIES, EQUIPMENT AND ITS STRUCTURAL AND UTILITY SUPPORT SYSTEM(S), INSOFAR AS THEY INVOLVE THE SAFEGUARDING OF LIFE, HEALTH AND PROPERTY. THE FIRE SPRINKLER CONTRACTOR SHALL USE THESE DRAWINGS TO CREATE THEIR FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS, PERFORM HYDRAULIC CALCULATIONS, AND COMPLETE SUBMITTALS. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT THEIR DOCUMENTS FOR LOCAL PERMIT.

(2) ACCEPTANCE TESTING:
REFER TO FIRE PROTECTION CODE CRITERIA ON THIS SHEET.

(3) OCCUPANCY CLASSIFICATIONS:
REFER TO FIRE PROTECTION FLOOR PLANS FOR OCCUPANCY CLASSIFICATIONS.

(4) APPLICABLE CODES:
REFER TO FIRE PROTECTION CODE CRITERIA ON THIS SHEET.

(5) STRUCTURAL SUPPORT:
STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS FOR THE FIRE PROTECTION SYSTEM INCLUDING LIVE AND DEAD LOADS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER AND SHOWN ON THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS. STEEL SLEEVES SHALL BE SET PRIOR TO CONCRETE PLACEMENT TO PROVIDE FOR PENETRATION OF FIRE PROTECTION PIPING THROUGH THE FLOORS OR ROOF STRUCTURE. COORDINATE ANY CORE DRILLING AS MAY BE REQUIRED. ALL PENETRATIONS SHALL BE PROPERLY FIRE-CAULKED, AS REQUIRED. STRUCTURE SHALL INCLUDE A MINIMUM OF 2.5 PSI DEAD LOAD TO ACCOUNT FOR FIRE PROTECTION SYSTEM WEIGHT.

(6) DEVIATIONS:
FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS SHALL NOT CONTAIN SIGNIFICANT DEVIATION FROM THESE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.

(7) ACTIVATION CONTROL SYSTEMS:
EXISTING TO REMAIN AND NOT MODIFIED AS PART OF THIS PROJECT.

61G15-32.004:

(2a) POINT OF SERVICE:
EXISTING TO REMAIN AND NOT MODIFIED AS PART OF THIS PROJECT.

(2b) APPLICABLE CODES:
REFER TO FIRE PROTECTION CODE CRITERIA ON THIS SHEET.

(2c) OCCUPANCY CLASSIFICATIONS:
LOBBIES, CORRIDORS, OFFICES, AND SIMILAR AREAS SHALL BE DESIGNED PER LIGHT HAZARD OCCUPANCY, WITH A MINIMUM DENSITY OF 0.10 GPM OVER THE HYDRAULICALLY MOST DEMANDING 1500 SQUARE FEET OR PER NFPA 13, 11.2.3.2.3. SPACING BETWEEN STANDARD COVERAGE SPRINKLERS SHALL BE A MINIMUM OF 6' AND A MAXIMUM OF 15' (SPRINKLERS 225 SQUARE FEET) AND PER MANUFACTURER'S LITERATURE FOR EXTENDED COVERAGE SPRINKLERS.

(2d) DESIGN APPROACH:
THE EXISTING BUILDING CONSISTS OF A SINGLE STORY BUILDING OF COMMERCIAL SPACES, AND IS EQUIPPED WITH AN EXISTING HYDRAULICALLY-CALCULATED, FULLY-AUTOMATIC, WET-PIPE SYSTEM, WITH FIRE PUMP, INSTALLED THROUGHOUT THE ENTIRE BUILDING. ALL AREAS SHALL BE FULLY-SPRINKLERED. PROJECT INCLUDES ONLY MINOR SPRINKLER HEAD REWORK THAT IS NOT THE MOST HYDRAULICALLY REMOTE AREA.

(2e) WATER SUPPLY CHARACTERISTICS:
WATER SUPPLY SHALL BE FROM AN EXISTING FIRE MAIN.

(2f) FLOW TEST INFORMATION:
CONTRACTOR TO PROVIDE WITH HYDRAULIC CALCULATIONS IN SHOP DRAWINGS.

(2g) VALVING AND ALARM REQUIREMENTS:
EXISTING TO REMAIN.

(2h) MIC RISK EVALUATION:
IN ACCORDANCE WITH 23.1.5 NFPA-13 (2010): WATER SUPPLY AND ENVIRONMENTAL CONDITIONS SHALL BE EVALUATED FOR THE EXISTENCE OF MICROBES AND CONDITIONS THAT CONTRIBUTE TO MICROBIOLOGICALLY INFLUENCED CORROSION (MIC). WHERE CONDITIONS ARE FOUND THAT CONTRIBUTE TO MIC, THE OWNER SHALL NOTIFY THE SPRINKLER SYSTEM INSTALLER AND A PLAN SHALL BE DEVELOPED TO TREAT THE SYSTEM USING ONE OF THE FOLLOWING METHODS:
(1) INSTALL WATER PIPE THAT WILL NOT BE AFFECTED BY THE MIC MICROBES;
(2) TREAT ALL THE WATER THAT ENTERS THE SYSTEM USING AN APPROVED BIOCIDE;
(3) IMPLEMENT AN APPROVED PLAN FOR MONITORING THE INTERIOR CONDITIONS OF THE PIPE ESTABLISHED TIME INTERVALS AND LOCATIONS.

(2i) BACKFLOW PREVENTION DETAILS:
EXISTING TO REMAIN.

(2j) COMPONENT SPECIFICATIONS:
REFER TO FIRE PROTECTION GENERAL NOTES ON THIS SHEET.

(2k) FIRE PUMP:
A FIRE PUMP IS EXISTING TO REMAIN.

(2l) FIREWATER STORAGE TANK:
A FIREWATER STORAGE TANK IS NOT REQUIRED FOR THIS PROJECT.

(2m) OWNER'S CERTIFICATE:
SHALL BE PROVIDED BY OWNER AND INCLUDED IN THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS.

FIRE SPRINKLER LEGEND

SYMBOL	NAME	TEMPERATURE	RESPONSE	FINISH (COLOR)	K FACTOR	CONNECTION SIZE	BRAND	MODEL/PART NUMBER	COMMENTS
	CONCEALED	155	QUICK	SEE NOTE 4	5.6	1/2"	VIKING	VK462	HARD CEILINGS
	RECESSED	155	QUICK	WHITE	5.6	1/2"	VIKING	VK302	TILE CEILINGS
	UPRIGHT	200	QUICK	BRASS	5.6	1/2"	VIKING	VK300	MECH, ELEC, ETC.

NOTES:
1. PROVIDE SPRINKLERS WITH CORROSION RESISTANCE COATING WHEN REQUIRED. CORROSION RESISTANCE COATING SHALL BE APPLIED ONLY BY THE MANUFACTURER OF THE SPRINKLER.
2. SPRINKLER GUARDS SHALL BE PROVIDED ON ALL SPRINKLERS INSTALLED LOWER THAN 7'-0" ABOVE FINISHED FLOOR OR SUBJECT TO DAMAGE. PROVIDE CORROSION RESISTANT GUARDS WHEN REQUIRED.
3. PROVIDE PLATES AND SCUTCHEON WITH CORROSION RESISTANCE COATING WHEN REQUIRED. APPLIED BY THE MANUFACTURER OF THE SPRINKLER.
4. COORDINATE CONCEALED PLATES COLOR WITH ARCHITECT IF OTHER THAN WHITE. SPRINKLERS, SCUTCHEON AND PLATES SHALL ONLY BE PAINTED BY THE SPRINKLER MANUFACTURER.
5. PROVIDE SERVER ROOMS OR IDF ROOMS WITH 200 DEG RATE SPRINKLERS

Sheet List Table

Sheet Number	Sheet Title
F0.00	NOTES, LEGENDS AND ABBREVIATIONS
F1.10A	FIRE PROTECTION PLAN - A
F1.10B	FIRE PROTECTION PLAN - B
F1.10C	FIRE PROTECTION PLAN - C
F1.10D	FIRE PROTECTION PLAN - D
F1.10E	FIRE PROTECTION PLAN - E
FD1.10A	DEMOLITION FIRE PROTECTION PLAN - A
FD1.10B	DEMOLITION FIRE PROTECTION PLAN - B
FD1.10C	DEMOLITION FIRE PROTECTION PLAN - C
FD1.10D	DEMOLITION FIRE PROTECTION PLAN - D
FD1.10E	DEMOLITION FIRE PROTECTION PLAN - E
F5.00	DETAILS

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ROOMS TO GO
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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL RELEVANT BUILDING CODES

BID SET

MICHAEL A. COSTELLO, PE
FL REG. NO. PE81436
S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

REVISIONS

NO	DATE	NOTES
1	09-15-21	ADDENDUM #2

SHEET NAME
NOTES, LEGENDS AND ABBREVIATIONS

SHEET NUMBER
F0.00

M:\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION NON PLAN SHEETS.DWG | Sam | Sep 13,2021 - 7:05am

FIRE PROTECTION PLAN - A (1)
1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING ANY WORK AND COORDINATE.
2. CONTRACTOR SHALL INSPECT EXISTING FIRE MAINS PIPING FOR RUST CONDITION DURING DEMOLITION.
3. CONTRACTOR SHALL MAINTAIN EXISTING SPRINKLER SYSTEMS OF THE AREAS "OUT OF THE SCOPE OF WORK" FULLY OPERATIONAL.

KEYNOTE LEGEND

1. TYPICAL NEW SPRINKLER. PROVIDE NEW SUPPLY BRANCH PIPING FROM EXISTING FIRE MAIN FOR NEW SPRINKLER CONNECTION AT NEW LOCATION. CONTRACTOR SHALL COORDINATE SPRINKLERS AND BRANCH LINES LOCATION AND ROUTING WITH ALL TRADES, INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES AND DIFFUSERS, ETC.
2. EXISTING FIRE MAIN SUPPLY PIPING. FIELD VERIFY EXACT LOCATION AND ROUTING.
3. EXISTING FIRE MAIN PIPING. FIELD VERIFY EXACT LOCATION AND ROUTING.
4. EXISTING SPRINKLERS TO REMAIN.
5. AREA OR ROOM OUT OF SCOPE OF WORK.

KEYPLAN

E	D	C
	B	A

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ROOMS TO GO
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BID SET

MICHAEL A. COSTELLO, PE
FL REG. NO. PE81436
S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

REVISIONS

NO	DATE	NOTES
1	09-13-21	ADDENDUM #2

SHEET NAME
FIRE PROTECTION PLAN - A

SHEET NUMBER
F1.10A

M:\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION LEVEL 1.DWG | Sun | Sep 13,2021 - 10:13am

FIRE PROTECTION PLAN - B 1
1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING ANY WORK AND COORDINATE.
2. CONTRACTOR SHALL INSPECT EXISTING FIRE MAINS PIPING FOR RUST CONDITION DURING DEMOLITION.
3. CONTRACTOR SHALL MAINTAIN EXISTING SPRINKLER SYSTEMS OF THE AREAS "OUT OF THE SCOPE OF WORK" FULLY OPERATIONAL.

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4. EXISTING SPRINKLERS TO REMAIN.
5. AREA OR ROOM OUT OF SCOPE OF WORK.

KEYPLAN

E	D	C
	B	A

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MICHAEL A. COSTELLO, PE
FL REG. NO. PE81436
S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

REVISIONS

NO	DATE	NOTES
1	09-13-21	ADDENDUM #2

SHEET NAME
FIRE PROTECTION PLAN - B

SHEET NUMBER
F1.10B

M:\PROJECTS\210120 RGMG-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION LEVEL LPHG | Sun | Sep 13,2021 - 10:13am

FIRE PROTECTION PLAN - C (1)
1/8" = 1'-0"

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M:\PROJECTS\210120 RGO&S--TO--GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION LEVEL 1.DWG | Sam | Sep 13,2021 - 10:13am

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FIRE PROTECTION PLAN - D (1)
1/8" = 1'-0"

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M:\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION LEVEL 1.DWG | Sam | Sep 13,2021 - 10:13am

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FIRE PROTECTION PLAN - E

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F1.10E

M:\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION LEVEL 1.DWG | Sam | Sep 13,2021 - 10:13am

HANGER REQUIREMENTS

1. ON BRANCH LINES, THERE SHALL BE NOT LESS THAN ONE HANGER FOR EACH LENGTH OF PIPE.

2. THE DISTANCE BETWEEN THE HANGER AND CENTERLINE OF AN UPRIGHT SPRINKLER SHALL NOT BE LESS THAN THREE INCHES (3"0.

3. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER SHALL BE NOT MORE THAN 36 INCHES FOR 1-INCH PIPE, OR 48 INCHES FRO 1-1/4" PIPE AND 60 INCHES FOR 1-1/2" PIPE AND LARGER. WHEN THESE LIMITS ARE EXCEEDED, THE PIPE SHALL BE EXTENDED BEYOND THE END SPRINKLER AND SUPPORTED BY AN ADDITIONAL HANGER.

4. HANGERS ARE NOT REQUIRED ON ONE INCH (1") ARM-OVERS LESS THAN TWENTY-FOUR INCHES (24") LONG.

HANGER SPACING FOR STEEL FIRE SPRINKLER PIPING

PIPE SIZE	MAX. SUPPORT SPACING
1" 40	12'-0"
1-1/4" 40	12'-0"
1-1/2" 40	15'-0"
2" 40	15'-0"
2-1/2" 10	15'-0"
3" 10	15'-0"
4" 10	15'-0"
6" 10	15'-0"

HANGERS

SPRINKLERS IN GRID CEILING SYSTEMS SHALL BE LOCATED AT THE MIDPOINT OR QUARTERPOINT OF THE FOUR FOOT (4') DIMENSION AND THE MIDPOINT OF THE TWO FOOT (2') DIMENSION. WHERE A CONFLICT OCCURS, SYMMETRY ABOUT THE AXIS SHALL BE MAINTAINED.

SPRINKLER MOUNTING

SLEEVES & FIRESTOPPING

USE PROSET "FIRESTOP PENETRATORS," U.L. CLASSIFIED IN THE BUILDING MATERIALS DIRECTORY, TESTED BY ASTM E814. USE ALL APPLICABLE PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOOR CEILING ASSEMBLIES IN ACCORDANCE WITH THE MANU-FACTURERS INSTRUCTIONS.

FIRE RATED WALL SLEEVING SYSTEM

TYPICAL UPRIGHT SPRINKLER

STORAGE LIMITS LINE

TYPICAL RECESSED SPRINKLER

TYPICAL CONCEALED SPRINKLER

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SHEET NAME
DETAILS

SHEET NUMBER
F5.00

M:\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION NON PLAN SHEETS.DWG | Sep 13,2021 - 7:55am

DEMOLITION FIRE PROTECTION PLAN - A (1)
1/8" = 1'-0"

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KEYPLAN

E	D	C
	B	A

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SHEET NAME
DEMOLITION FIRE PROTECTION PLAN - A

SHEET NUMBER
FD1.10A

M:\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION LEVEL DEMO.DWG | Sam | Sep 13,2021 - 10:07am

DEMOLITION FIRE PROTECTION PLAN - B (1)
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M:\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION LEVEL DEMO_LDWG | Sam | Sep 13,2021 - 10:07am

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DEMOLITION FIRE PROTECTION PLAN - C (1)
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M:\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION LEVEL DEMO_LIVE | Sun | Sep 13,2021 - 10:07am

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1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING ANY WORK AND COORDINATE.
2. CONTRACTOR SHALL INSPECT EXISTING FIRE MAINS PIPING FOR RUST CONDITION DURING DEMOLITION.
3. CONTRACTOR SHALL MAINTAIN EXISTING SPRINKLER SYSTEMS OF THE AREAS OUT OF THE SCOPE OF WORK FULLY OPERATIONAL.

KEYNOTE LEGEND

1. EXISTING FIRE SUPPLY PIPING, SERVING THE EXISTING BUILDING SPRINKLER SYSTEM TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, ROUTING AND SIZING.
2. EXISTING FIRE MAIN PIPING TO REMAIN FOR NEW SPRINKLER CONNECTION AT NEW LOCATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, ROUTING AND SIZING.
3. TYPICAL PENDENT SPRINKLER TO REMAIN.
4. TYPICAL UPRIGHT SPRINKLER TO REMAIN.
5. TYPICAL EXISTING SPRINKLER TO BE DEMOLISHED. REMOVE EXISTING RELATED SUPPLY BRANCH PIPING BACK TO MAIN AND PROVIDE NEW BRANCH LINE FOR NEW SPRINKLER CONNECTION AT NEW LOCATION. CONTRACTOR SHALL FIELD VERIFY EXISTING SPRINKLERS AND EXISTING BRANCH LINES EXACT LOCATION AND TOTAL. REFER TO NEW CONSTRUCTION PLANS FOR NEW SPRINKLERS AT NEW LOCATION.
6. AREA OR ROOM OUT OF SCOPE OF WORK.
7. EXISTING CEILING TO BE REPLACED WITH NEW. EXISTING SPRINKLERS WITHIN THIS AREA SHALL REMAIN, BE REMOVED AND REPLACED AT SAME LOCATION OR AT THE PROPOSED NEW LOCATION SHOWN ON NEW CONSTRUCTION PLANS.

DEMOLITION FIRE PROTECTION PLAN - D (1)
1/8" = 1'-0"

KEYPLAN

E	D	C
	B	A

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ROOMS TO GO OFFICES RENOVATION AND EXPANSION

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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL RELEVANT BUILDING CODES

BID SET

MICHAEL A. COSTELLO, PE
FL REG. NO. PE81436
S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

REVISIONS

NO	DATE	NOTES
1	09-13-21	ADDENDUM #2

SHEET NAME
DEMOLITION FIRE PROTECTION PLAN - D

SHEET NUMBER
FD1.10D

M:\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 FIRE PROTECTION LEVEL DEMO_1.DWG | Sam | Sep 13,2021 - 10:07am