

### Addendum # 1

# RFP NO.:101228OPENING:1/11/23 @ 1:00 PMCOMMODITY:DESIGN SERVICES FOR DINING RENOVATIONS

Attached please find the following relating to the above referenced RFP:

- 1. Questions submitted by the specified due date and time as indicated in the RFP with the corresponding answers
- 2. Non-Mandatory Pre-Bid Sign-In Sheet
- 3. Initial/Draft Fire Alarm and Fire Protection Upgrade documents referenced in the RFP as a mandatory part of the RFP scope

Purchasing Department The University of Rhode Island

Rev. 9-1-15



### Q1. How was the \$2,000,000 budget derived and when?

A1. In September 2022, URI Dining Services identified available funding for a construction project/project from which the \$2m construction sum was derived. It is acknowledged that this sum is not sufficient to cover the entirety of the construction projects that will be identified in the planning study. The intent of the study is to right size the scope of construction to fit the available budget.

### Q2. Is the project going to be managed by URI staff or by an OPM?

A2. The design portion of the project will be managed by a URI project manager. The construction portion will be managed by either URI staff or by a contracted OPM depending on the type and scale of projects selected to be constructed.

### Q3. Does the University have a preferred hospitality consultant?

A3. The University does not give vendor preference.

## Q4. Will the successful bidder be provided an inventory of the existing equipment and what is intended to be reused, or should completing the inventory be included in the bid?

A4. There is no expectation that the architect will need to complete an inventory of existing equipment. Dimensional and power requirements / HVAC impacts of each piece of equipment that the University determines to be kept will need to be accommodated into any modifications within the project designs.

### Q5. What drawings will be provided to the successful bidder? Any CAD or AutoCAD, or PDFs only?

A5. Hope Commons– Construction Record Drawings from 2008 pdfs and CAD plans from the URI space database, which are schematic in nature.

DDC- Construction Record Drawings from 1992 pdfs and CAD plans from the URI space database, which are schematic in nature.

As a basic service, the Architect will provide measured drawings confirming existing building dimensions and conditions.

## Q6. What services are anticipated to be included in the Testing Allowance? Will scoping of the drains be completed under this? Is there an existing air flow/balancing report for both locations?



A6. The testing allowance is anticipated to cover any necessary testing up to the allowance limit of \$75k. If scoping of the drains is identified as being required, then as a Contract Allowance Expense, and after approval by the Owner, the Architect will procure Pre-Construction Testing services for the project sites.

The original post occupancy airflow / balancing reports are available and URI Dining services intends to obtain new TAB reports ahead of the project.

### Q7. Is the fire protection work included in the \$2,000,000 budget?

A7. Currently, yes. Alternative funding sources are being sought and if a decision is made to increase the project budget to accomplish more of the projects identified in the advanced planning study, an additional service request will be required from the awarded vendor. Evaluation of this ASR will take into account the percentage of construction cost of the original proposal based on the original expected hard construction cost of <u>\$2.0 million</u>.

## Q8. Please provide a definition of the MEP testing scope. The way it's presented in the RFP is open ended. Alternatively, could you establish an allowance for this design fee?

A8. By way of this response, please note the following change in language to Attachment D 'Summary Service Matrix' #27;

Pre-Construction Testing: As a Basic Service, the Architect will prepare a Request for Proposals for Pre-Construction Testing Services (e.g., electric load tests, hydrant flow tests, drain scoping etc.), send this RFP to up to four Firms, but not less than two, coordinate bidding and awarding of the Work, coordinate Work performed by the selected firm(s) and incorporate the data into the project design plans. As a Contract Allowance Expense, and after approval by the Owner, the Architect will procure Pre-Construction Testing services for the project site. As a Basic Service, the Architect may be required to secure multiple services from multiple firms in order to complete all the required Pre-Construction Testing for the project.

The advanced planning study will determine the MEP scope of work and necessary testing required to fulfill the goals of the identified projects. As per the RFP, It is anticipated that the MEP scope in the advanced planning stage will include the review and analysis of existing MEP systems within both the DDC building (Office areas, warehouse and kitchen / cold storage) and Hope Commons buildings.

The MEP scope following the planning study should be based on the assumption of a project with an expected hard construction cost of <u>\$2.0 million</u>.





WE DO"

PURCHASING DEPARTMENT 10 Tootell Road, Suite 3, Kingston, RI 02881 USA p; 401.874.2171 f: 401.874.2306

uri.edu/purchasing

### PAGE 1 OF:

THINK BIG

### **NON - MANDATORY PRE-BID CONFERENCE SIGN-IN SHEET**

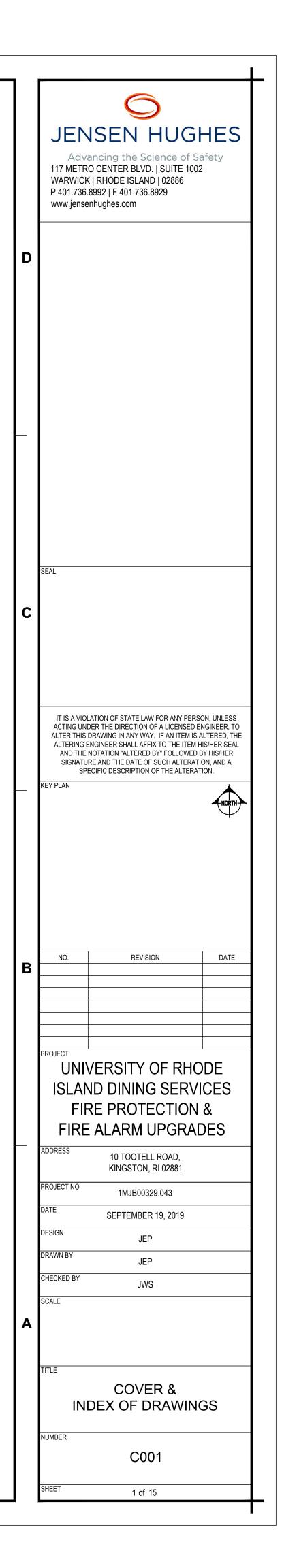
BID NUMBER:	101228	PURCHASING REPRESENTATIVE	Andrea Turano
BID TITLE:	Design Services for Dining		
LOCATION: PRE BID DATE AND TIME:	12/14/22 @ 9:00 AM	0 Flagg Road, Kingston, RI 02881	
Company Name:	Representative:	Email Address	Phone Number
University of Rhode Island	Andrea Turano	andrea_turano@uri.edu	401-874-9133
Perry Dean	Monica Carron	Monica Ceperryden.wn	781-820-1968
Sacroccio + Prosoc.	GiaDrum	GiaesA-Architects.c	~ 401.942-797p
TECTON ARCHITE	Gia Drumy Marco TS TOMMASKNI	HARCOT C-TECTER FC, COM	
STUDIO JAED	FICHAND COLAJECCILIO	CUANECCHIORE STUNDAED.Com	401-215-7364
URI	STEVE LEONARY	S-lecnard @ URI.edu	614 - 962 - 4762
NEMD APet	SRAN GARAVE	seangenend.com	401 868:7993
Jensen Hynes	Faye Centure	faye garmer & Josenmanas	401-2010 2919
Jensen Hughes	Ryan Morin	rmorin@jensenhughes.com	401,214.3170
URS	Pierre Sr. Germin	pot- german Curi adu	401 - <b>4</b> 13-7174

# UNIVERSITY OF RHODE ISLAND **DINING SERVICES** FIRE PROTECTION & FIRE ALARM UPGRADES

С		INDEX OF DRAWINGS
	DRAWING NO.	DRAWING DESCRIPTION
	C001	COVER & INDEX OF DRAWINGS
	FP-0.1	FIRE PROTECTION NOTES, LEGENDS, RISER DETAIL
	FP-0.2	SPRINKLER DETAILS
	FP-1.0	OFFICE AREA & STORAGE AREA FIRE PROTECTION DEMOLITION PLAN
	FP-1.1	FREEZER AREA & ABOVE FREEZER FIRE PROTECTION DEMOLITION PLAN
	FP-2.0	OFFICE AREA & STORAGE AREA FIRE PROTECTION INSTALLATION PLAN
	FP-2.1	MID & UPPER LEVEL STORAGE FIRE PROTECTION INSTALLATION PLAN
	FP-2.2	FREEZER AREA & ABOVE FREEZER FIRE PROTECTION INSTALLATION PLAN
	FA-0.1	FIRE ALARM NOTES & DETAILS
	FA-0.2	FIRE ALARM RISER
B	FA-1.0	OFFICE AREA & STORAGE AREA FIRE ALARM DEMOLITION PLAN
	FA-1.1	FREEZER AREA & ABOVE FREEZER FIRE ALARM DEMOLITION PLAN
	FA-2.0	OFFICE AREA & STORAGE AREA FIRE ALARM INSTALLATION PLAN
	FA-2.1	FREEZER AREA & ABOVE FREEZER FIRE ALARM INSTALLATION PLAN
	FA-2.2	FREEZER AREA FIRE PROTECTION DETECTION INSTALLATION PLAN
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10 TOOTELL ROAD, KINGSTON, RI 02881 PROJECT NO. 1MJB00329.43 SEPTEMBER 19, 2019

## 



**GENERAL NOTES** 

- 1. THIS DRAWING IS PROVIDED TO DEMONSTRATE THE CONFIGURATION OF MAJOR SYSTEM COMPONENTS INCLUDING SPRINKLER AND PIPING LOCATIONS. THE SPRINKLER CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL SPRINKLERS AND SYSTEM PIPING.
- 2. REFER TO ATTACHED HYDRAULIC CALCULATIONS FOR DESIGN PIPE SIZES. PIPE SIZES SHALL BE NO SMALLER THAN AS INDICATED BY THE DESIGN HYDRAULIC CALCULATIONS OR DESIGN DRAWINGS. THE DESIGN SPECIFICATION AND HYDRAULIC CALCULATIONS ARE PART OF THESE DESIGN DOCUMENTS.
- ACCURACY OF WALL LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE
- CONTRACTOR WITH REGARDS TO PIPE ROUTING AND PROXIMITY TO OBSTRUCTIONS. THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL TIER 2 SHOP DRAWINGS IN ACCORDANCE WITH THE RISBC. CHANGES IN THE LOCATIONS OF SPRINKLERS FROM THOSE SHOWN ON THE APPROVED SHOP DRAWINGS SHALL BE IDENTIFIED IN WRITING TO THE KINGSTON FIRE DEPARTMENT AND JENSEN HUGHES PRIOR TO INSTALLATION. ALL CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION OR ANY RELOCATIONS OR ADDITIONAL SPRINKLERS REQUIRED FOR COMPLIANCE AS A RESULT OF THE CHANGES SHALL BE FURNISHED AND INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- 5. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ANY NEW SITE SPECIFIC MODIFICATIONS THAT MAY BE MADE TO THE BUILDING DURING CONSTRUCTION SUCH AS NEW LIGHTS, DROP CEILINGS, ETC.
- 6. ALL SPRINKLER PIPING SHALL BE SECURED USING U.L./F.M. PIPE HANGERS, ANCHORS AND OTHER APPROVED MEANS TO PROPERLY SECURE THE PIPE.
- 7. ALL PIPING 1-INCH THROUGH 2-INCH SHALL BE U.L./F.M. ASTM A53, A135, OR A795 SCHEDULE 40 WITH THREADED ENDS.
- 8. ALL PIPING 2½-INCH AND LARGER SHALL BE U.L./F.M. ASTM A53, A135, OR A795 SCHEDULE 40 OR SCHEDULE 10 WITH ROLLED-GROOVED ENDS. PIPING THAT IS  $1\frac{1}{4}$ -INCH TO 2-INCH IS ALSO ALLOWED TO BE ROLLED-GROOVED.
- 9. WHERE INDICATED ON THE DRAWINGS IN AREAS WHERE AMBIENT TEMPERATURES ARE 40 DEGREES FAHRENHEIT OR LESS, DRY SPRINKLERS AND/OR DRY PIPE SYSTEMS WILL BE INSTALLED.
- 10. THE CONTRACTOR SHALL GUARANTEE IN WRITING ALL WORK AND EQUIPMENT ASSOCIATED WITH THIS PROJECT FOR ONE (1) YEAR AFTER INSTALLATION. REFER TO THE SPECIFICATION FOR ADDITIONAL WARRANTY REQUIREMENTS.
- 11. A MINIMUM NOTICE OF 24 HOURS MUST BE PROVIDED TO BUILDING OWNER TO ACCOMMODATE SHUTDOWN OF MASTERBOX AND/OR DRAINING OF SPRINKLER SYSTEMS. 12. SPRINKLER CONTRACTOR MUST REMAIN ON SITE UNTIL MASTERBOX, AND FIRE ALARM
- IMPAIRMENTS ARE RESTORED.

### SCOPE OF WORK

- 1. THE SCOPE OF WORK INCLUDES THE MODIFICATION OF THE AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE UNIVERSITY OF RHODE ISLAND DINING SERVICES IN KINGSTON. RI. AS
- INDICATED ON THE DRAWINGS AND IN THE TECHNICAL SPECIFICATIONS. 2. THE WORK INCLUDES FURNISHING AND INSTALLING SPRINKLERS INCLUDING PIPING, HANGERS AND OTHER ASSOCIATED COMPONENTS IN AREAS OF THE BUILDING DISCOVERED DURING SURVEY OR INSTALLATION THAT ARE NOT NECESSARILY REPRESENTED ON THE DESIGN DRAWINGS THAT ARE REQUIRED TO BE PROVIDED WITH SPRINKLER PROTECTION AT NO ADDITIONAL COST TO THE OWNER.
- 3. THE WORK INCLUDES THE CONNECTION OF THE NEW WATER FLOW AND VALVE SUPERVISORY SWITCHES TO THE FIRE SPRINKLER SYSTEM IN THE BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THESE WIRING CONNECTIONS WITH A LICENSED FIRE ALARM TECHNICIAN/ELECTRICIAN.
- 4. THE WORK INCLUDES INSTALLATION OF NEW DOUBLE-CHECK VALVE BACKFLOW PREVENTION DEVICE AND NEW RISER CHECK VALVE ASSEMBLIES AS SHOWN ON THE DRAWINGS.
- 5. THE WORK INCLUDES RELOCATION OF ALL OBSTRUCTIONS TO NEW SPRINKLER PIPING. OBSTRUCTION INCLUDE BUT ARE NOT LIMITED TO EMERGENCY LIGHTING, BATTERY BOXES, TELCOM EQUIPMENT AND WIRING.
- 6. THE WORK INCLUDES AN AIR MAINTENANCE DEVICE. 7. THE WORK INCLUDES A COMPLETE AND OPERATIONAL FM APPROVED AND UL508A LISTED NITROGEN GENERATION SYSTEM, ECS PGEN-3 MODEL OR EQUIVALENT. THE NITROGEN GENERATOR SHALL BE WIRED INTO THE EMERGENCY POWER CIRCUIT. THE MANUFACTURERS INSTALLATION GUIDELINES SHALL BE FOLLOWED.
- 8. THE WORK INCLUDES PROVIDING MONITORING FOR THE FOLLOWING VIA THE FIRE ALARM SYSTEM: BYPASS ALARM
- LEAK MONITOR
- NITROGEN SUPPLY LINE PRESSURE POWER
- 9. THE WORK INCLUDES ALL CUTTING, DRILLING, CORE DRILLING, ETC. TO INSTALL THE FIRE SPRINKLER SYSTEM THROUGH THE EXISTING WALLS.
- 10. THE WORK INCLUDES FIRESTOPPING, PATCHING AND PAINTING OF ALL PENETRATIONS THAT WERE MADE FOR INSTALLATION OF NEW SPRINKLER PIPING THROUGH EXISTING INTERIOR AND EXTERIOR BUILDING WALLS. THE FIRESTOPPING SHALL BE CONDUCTED BY A MANUFACTURER'S TRAINED PERSONNEL ACCEPTABLE TO THE OWNER.
- 11. THE WORK INCLUDES ALL FEES AND ACTIVITIES REQUIRED TO SECURE APPROVALS FOR NECESSARY STATE AND LOCAL PERMITS. 12. THE WORK INCLUDES SUBMITTING DETAILED WORKING PLANS, HYDRAULIC CALCULATIONS AND
- PRODUCT DATA TO THE ENGINEER FOR REVIEW PRIOR TO SUBMITTING SAME TO LOCAL OFFICIALS FOR PERMIT. CONTRACTOR SHALL NOT FABRICATE PIPING, ASSEMBLE COMPONENTS OR BEGIN INSTALLATION UNTIL JENSEN HUGHES HAS APPROVED THE SUBMITTAL DOCUMENTS.
- 13. THE WORK INCLUDES PERFORMING FIELD QUALITY CONTROL AND COMMISSIONING ACTIVITIES. 14. THE WORK INCLUDES DOCUMENTING AND SUBMITTING THE RESULTS OF INTEGRITY AND FUNCTIONAL TESTING.
- 15. THE WORK INCLUDES SUBMITTING AS-BUILT PLANS AND CLOSEOUT DOCUMENTATION TO JENSEN HUGHES FOR REVIEW PRIOR TO SCHEDULING OWNER DEMONSTRATION TRAINING.
- 16. THE WORK INCLUDES TRAINING OWNER'S PERSONNEL ON THE OPERATION OF THE SYSTEM, REQUIRED MAINTENANCE TASKS AND FREQUENCIES, AND THE LOCATIONS OF ALL SPARE TOOLS AND EQUIPMENT, VALVES, FLOW SWITCHES, RISERS AND EQUIPMENT NECESSARY TO MAINTAIN AND OPERATE THE SPRINKLER SYSTEM.

1. DESIGN AND INSTALL THE SPRINKLER SYSTEMS TO MEET THE REQUIREMENTS OF: A. THE RHODE ISLAND FIRE LAWS AND RULES. WHICH INCLUDES:

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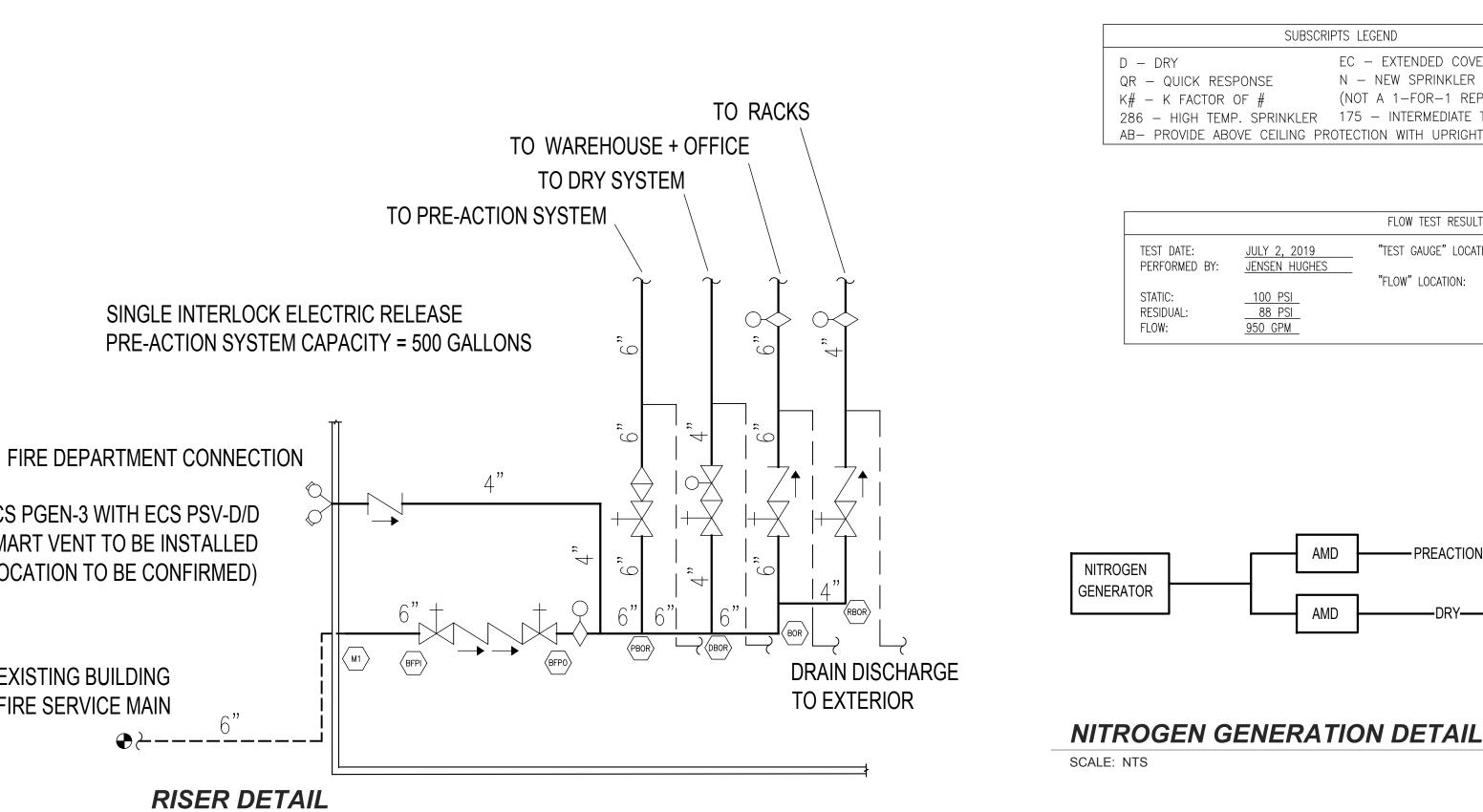
- REQUIREMENTS.

- WITH THE FOLLOWING CRITERIA:
- AS FOLLOWS:
- THE BUILDING), DENSITY: 0.10 GPM/S.F.,
- HOSE STREAM: 100 GPM,
- B. ALL ORDINARY HAZARD GROUP 1 OCCUPANCY AREAS SHALL MEET THE REQUIREMENTS OF
- NFPA 13-2013 AS FOLLOWS: AREA OF DEMAND: 1500 S.F.,
- DENSITY: 0.15 GPM/S.F.,
- NFPA 13-2013 AS FOLLOWS:
  - DENSITY: 0.20 GPM/S.F.,
- HOSE STREAM: 250 GPM,
- NFPA 13-2013 AS FOLLOWS: AREA OF DEMAND: 2500 S.F.,
  - DENSITY: 0.30 GPM/S.F., HOSE STREAM: 500 GPM,
- CEILING, ETC.
- 6. ALL STANDARD SPRAY SPRIN
- AREA OF 225 S.F. 7. ALL IN RACK SPRINKLERS

ECS PGEN-3 WITH ECS PSV-D/D SMART VENT TO BE INSTALLED (LOCATION TO BE CONFIRMED)

**EXISTING BUILDING** FIRE SERVICE MAIN

2



D. ALL EXTRA HAZARD GROUP 1 OCCUPANCY AREAS SHALL MEET THE REQUIREMENTS OF

E. AREA OF OPERATION INCREASES SHALL BE INCLUDED FOR DRY-PIPE SYSTEMS, SLOPE

OF CHAPTER 16 FOR AREAS CONTAINING CLASS I THROUGH CLASS IV COMMODITIES, AND CHAPTER 17 FOR AREAS CONTAINING PLASTIC COMMODITIES.

i. TITLE 23-CHAPTER 28, FIRE SAFETY CODE-2015, AND AS AMENDED UNDER THE TITLE 23-CHAPTER 28, COMPREHENSIVE FIRE SAFETY ACT, WHICH INCLUDES: a. THE RHODE ISLAND FIRE PREVENTION CODE (NFPA 1-2015), AND b. THE RHODE ISLAND LIFE SAFETY CODE (NFPA 101-2015); B. NFPA 13-2013, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS. 2. REFER TO TECHNICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION AND ADDITIONAL 3. THE SPRINKLER SYSTEM SHALL BE DESIGNED AS LIGHT HAZARD, ORDINARY HAZARD, OR EXTRA

HAZARD DEPENDING ON THE USE OF THE SPACE BEING PROTECTED. 4. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED BY THE CONTRACTOR USING THE DENSITY/AREA METHOD AS DESCRIBED IN NFPA 13-2013. 5. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED AND SIZED IN ACCORDANCE

A. ALL LIGHT HAZARD OCCUPANCY AREAS SHALL MEET THE REQUIREMENTS OF NFPA 13-2013

AREA OF DEMAND: 1500 S.F. (AREA REDUCTION FOR Q.R. SPRINKLERS PER NFPA

13-2013, SEC. 11.2.3.2.3.1 IS ONLY ALLOWED IN THE OFFICE SPACE PORTION OF

**DESIGN CRITERIA** 

SAFETY MARGIN: MINIMUM 5 PSI,

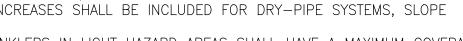
HOSE STREAM: 250 GPM,

SAFETY MARGIN: MINIMUM 5 PSI, C. ALL ORDINARY HAZARD GROUP 2 OCCUPANCY AREAS SHALL MEET THE REQUIREMENTS OF

AREA OF DEMAND: 1500 S.F.,

SAFETY MARGIN: MINIMUM 5 PSI,





							OTOTEMO	, 02012	
RINKLERS	s in	LIGHT	HAZAF	D AREA	S SHAL	L HAVE	A MAXIMU	JM COVERAG	GE
							E APPLICA	BLE SECTIO	Ν

	NEW SPRINKLER PIPE		BACKFLOW PREVENTER
	EXISTING SPRINKLER PIPE	G	PIPE ELBOW DOWN
	UNDERGROUND PIPE	Ð	PIPE TEE DOWN
<b>\$</b> \$	FIRE DEPARTMENT CONNECTION	S	PIPE CONTINUATION
$\bullet$	POINT OF CONNECTION	8	PIPE RISER
	BALL VALVE (LEVER HANDLE)	S4	HYDRAULIC NODE
$\stackrel{+}{\bowtie}$	OS&Y GATE VALVE		HYDRAULIC AREA
$\geq$	CHECK VALVE		INDICATING BUTTERFLY VALVE
$\diamond$	PREACTION VALVE (INCLUDES COMPRESSOR &	$\diamond$	WATERFLOW SWITCH
$\checkmark$	NITROGEN EQUIPMENT)	C	FLUSHING CAP
►	POST-INDICATOR VALVE	$\bowtie$	DRAIN VALVE AND PLUG
$\bowtie$	DRY VALVE	⊗⊥	1 <sup>1</sup> / <sub>2</sub> "Hose valve and riser

SPRINKLER LEGEND									
SYMBOL	MANUFACTURER	SIN	TYPE	RESPONSE	NPT	K-FACTOR	FINISH	ESCUTCHEON	TEMPERATURE
O <sup>K8.0</sup>	VIKING	VK2001	UPRIGHT	STANDARD	3/4"	8.0	CHROME	NONE	175°F
O <sup>K8.0</sup> 286	VIKING	VK2001	UPRIGHT	STANDARD	3/4"	8.0	CHROME	NONE	286°F
O <sup>K5.6</sup> 175	VIKING	VK1001	UPRIGHT	STANDARD	1/2"	5.6	CHROME	NONE	175°F
O <sup>K5.6</sup> 200	VIKING	VK1001	UPRIGHT	STANDARD	1/2"	5.6	CHROME	NONE	200°F
QR <sup>175</sup>	VIKING	VK3021	RECESSED PENDENT	QUICK	1/2"	5.6	CHROME	NONE	175°F
<sup>175</sup>	VIKING	VK1021	RECESSED PENDENT	STANDARD	1/2"	5.6	BRASS	WHITE	175°F
<sup>286</sup>	VIKING	VK1021	RECESSED PENDENT	STANDARD	1/2"	5.6	BRASS	WHITE	286°F
© <sup>K8.0</sup> 175	VIKING	VK2001	UPRIGHT ON A SPRIG	STANDARD	3/4"	8.0	CHROME	NONE	175°F
$O_{175}^{IR}$	VIKING	VK550	IN-RACK UPRIGHT	STANDARD	1/2"	5.6	CHROME	CHROME	175°F
● <sup>286</sup> D	VICTAULIC	V3607	DRY PENDENT	STANDARD	1"	8.0	BRASS	NONE	286°F
● <sup>175</sup> <sub>D</sub>	VICTAULIC	V3607	DRY PENDENT	STANDARD	1"	8.0	BRASS	NONE	175°F
< <sup>₽</sup> 175	VIKING	VK152	DRY SIDEWALL	STANDARD	1"	5.6	BRASS	NONE	175°F
⊲ <sub>QR,175</sub>	VIKING	VK305	HORIZ. SIDEWALL	QUICK	1/2"	5.6	CHROME	NONE	175°F
⊲ <sub>QR,200</sub>	VIKING	VK305	HORIZ. SIDEWALL	QUICK	1/2"	5.6	CHROME	NONE	200°F
⊲ <sup>EC</sup> QR,175	VIKING	VK605	EXTENDED COVERAGE HORIZ. SIDEWALL	QUICK	1/2"	5.6	CHROME	NONE	175°F
$\approx$	VIKING		SPRINKLER GUARD						
$\approx$	VICTAULIC	V36 GUARD	SPRINKLER GUARD						
		CONTRACTOR	R SHALL USE THE ABOV	E SPECIFIEI	) SPRINKL	ERS OR EQU	AL		

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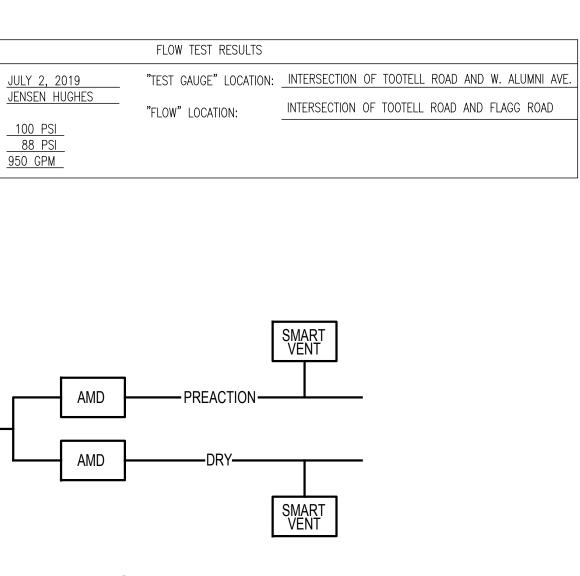
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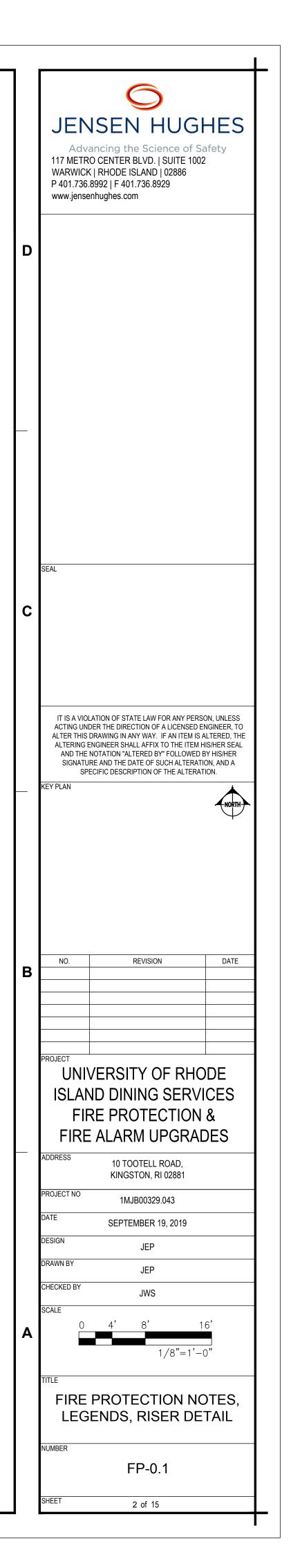
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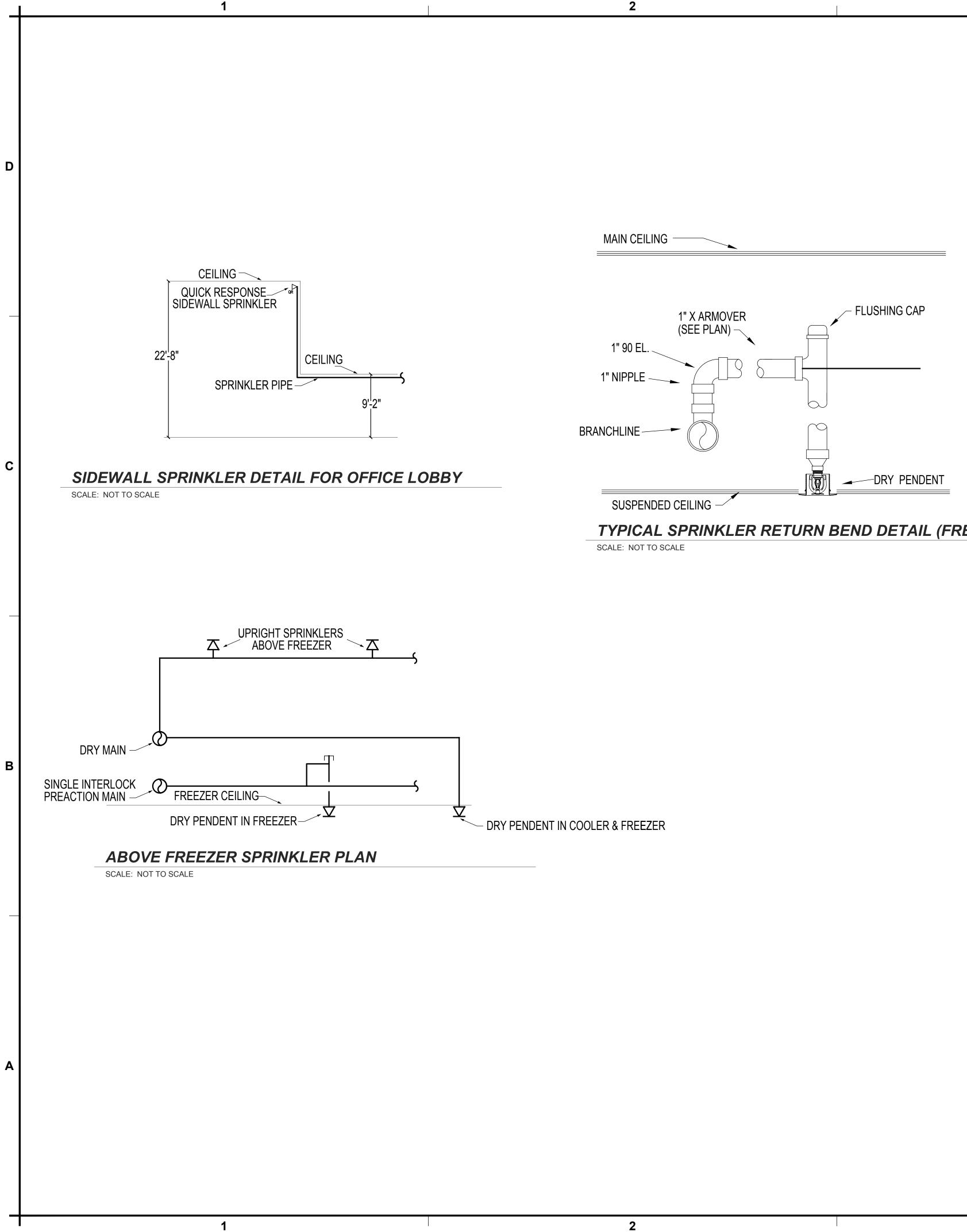
## SYMBOL LEGEND

SUBSCRIPTS LEGEND

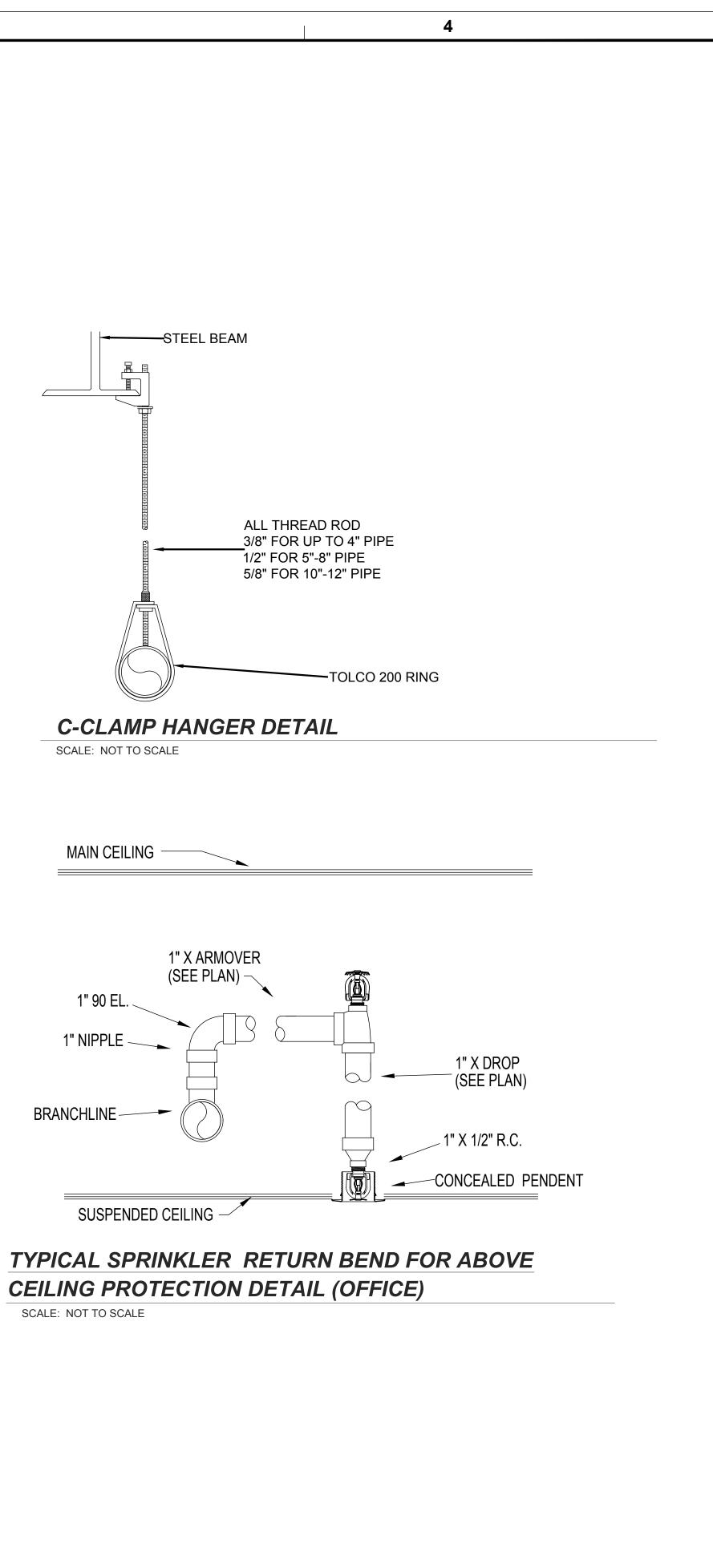
- EC EXTENDED COVERAGE
- N NEW SPRINKLER
- (NOT A 1 FOR 1 REPLACEMENT) 286 – HIGH TEMP. SPRINKLER 175 – INTERMEDIATE TEMP. SPRINKLER
- AB- PROVIDE ABOVE CEILING PROTECTION WITH UPRIGHT SPRINKLERS

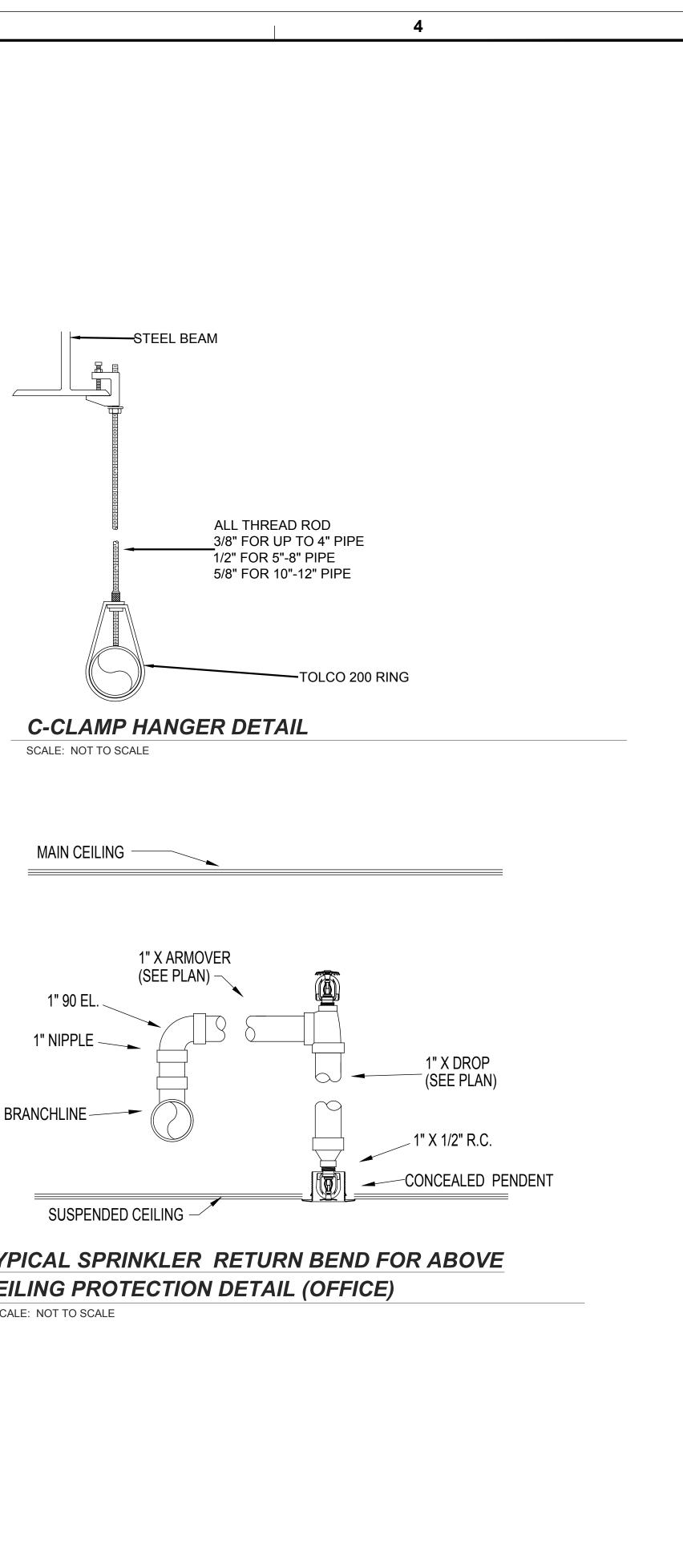


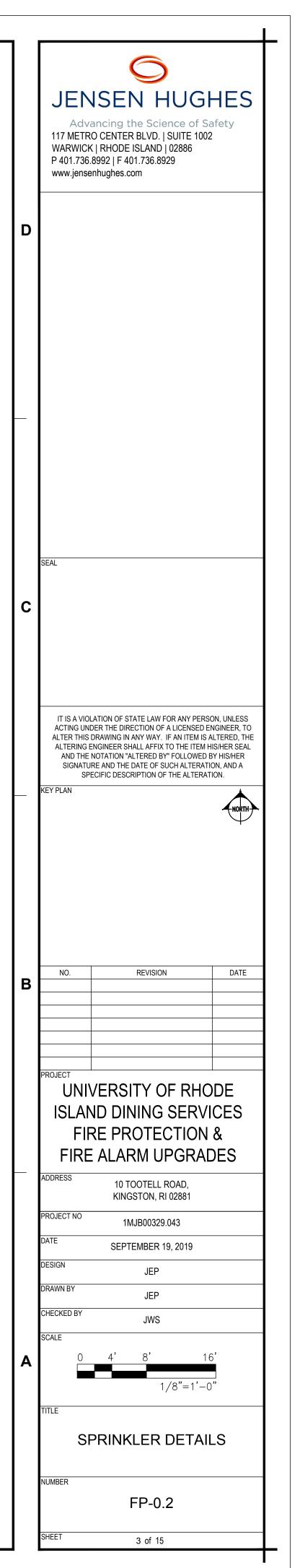


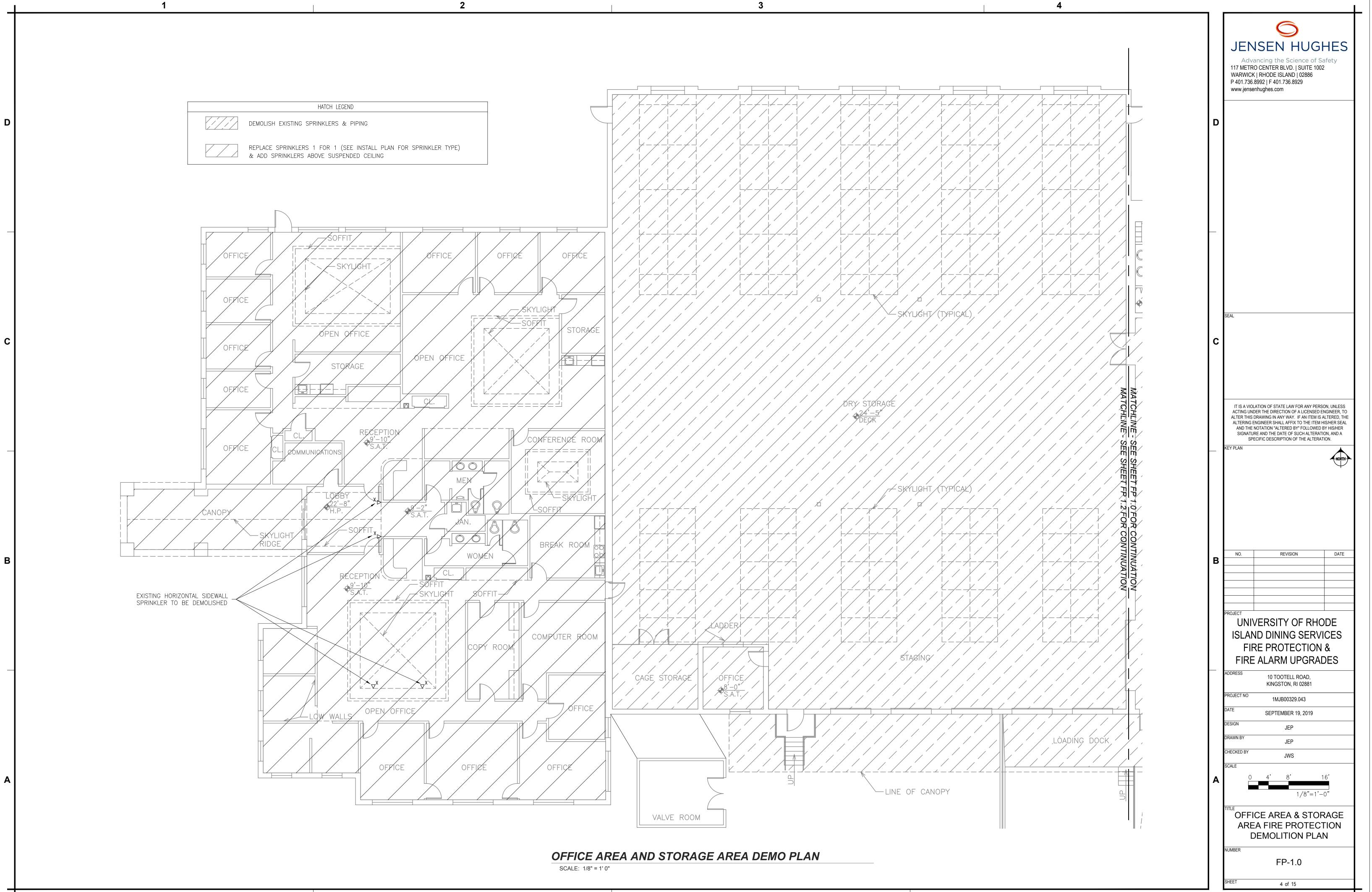


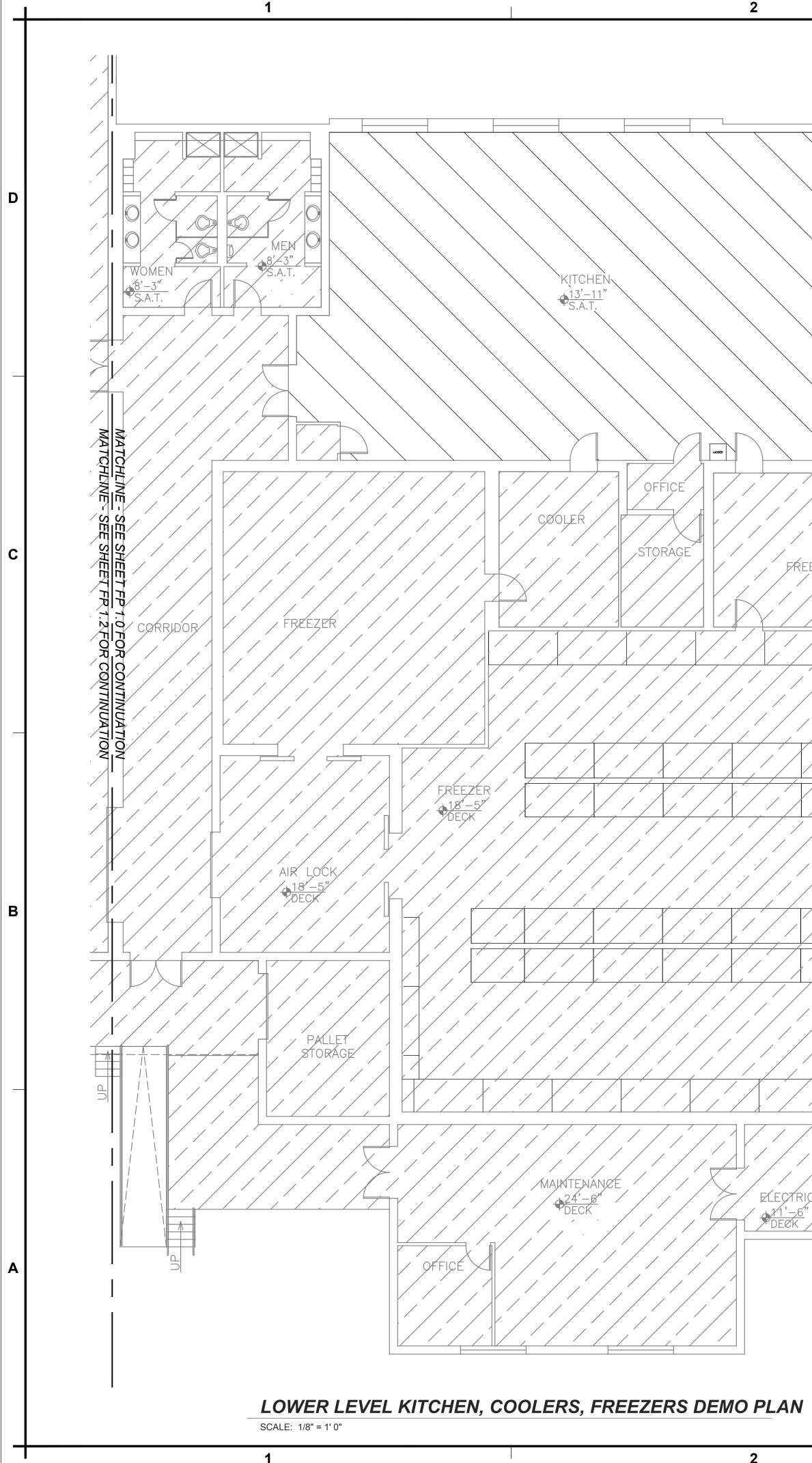
TYPICAL SPRINKLER RETURN BEND DETAIL (FREEZER)

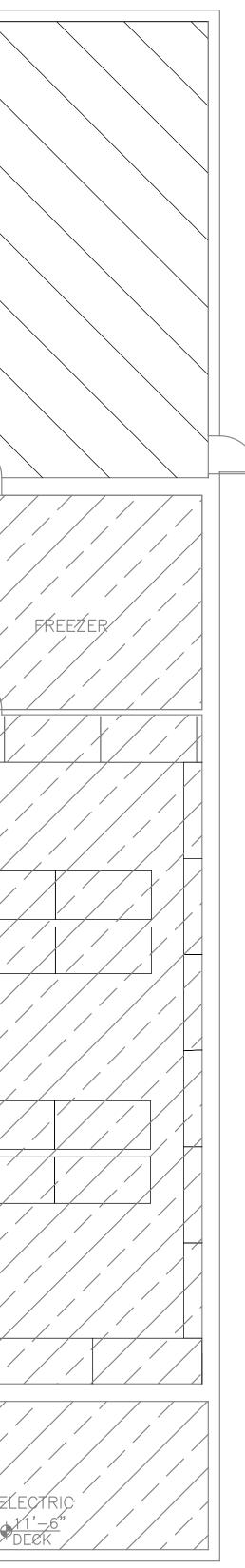


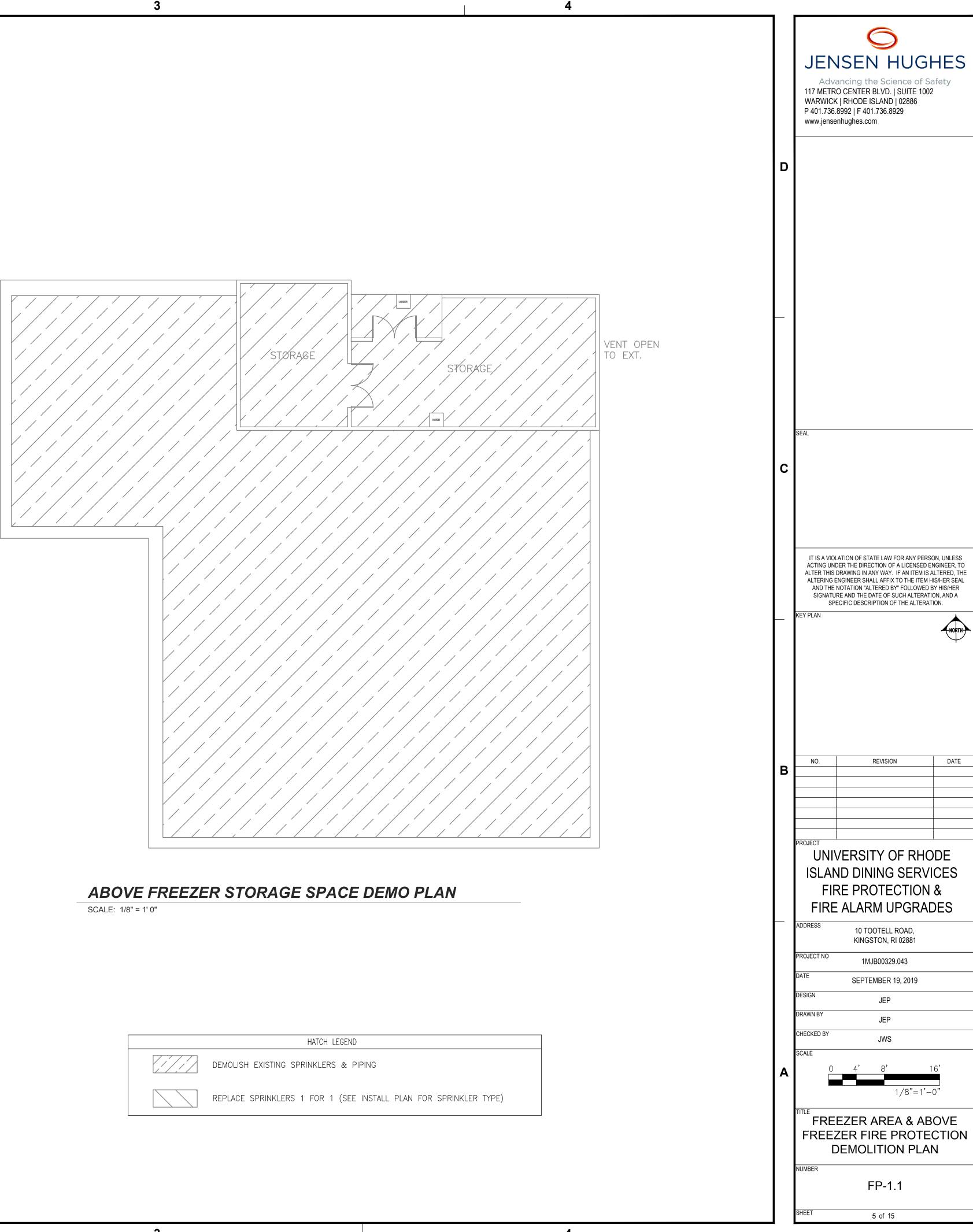


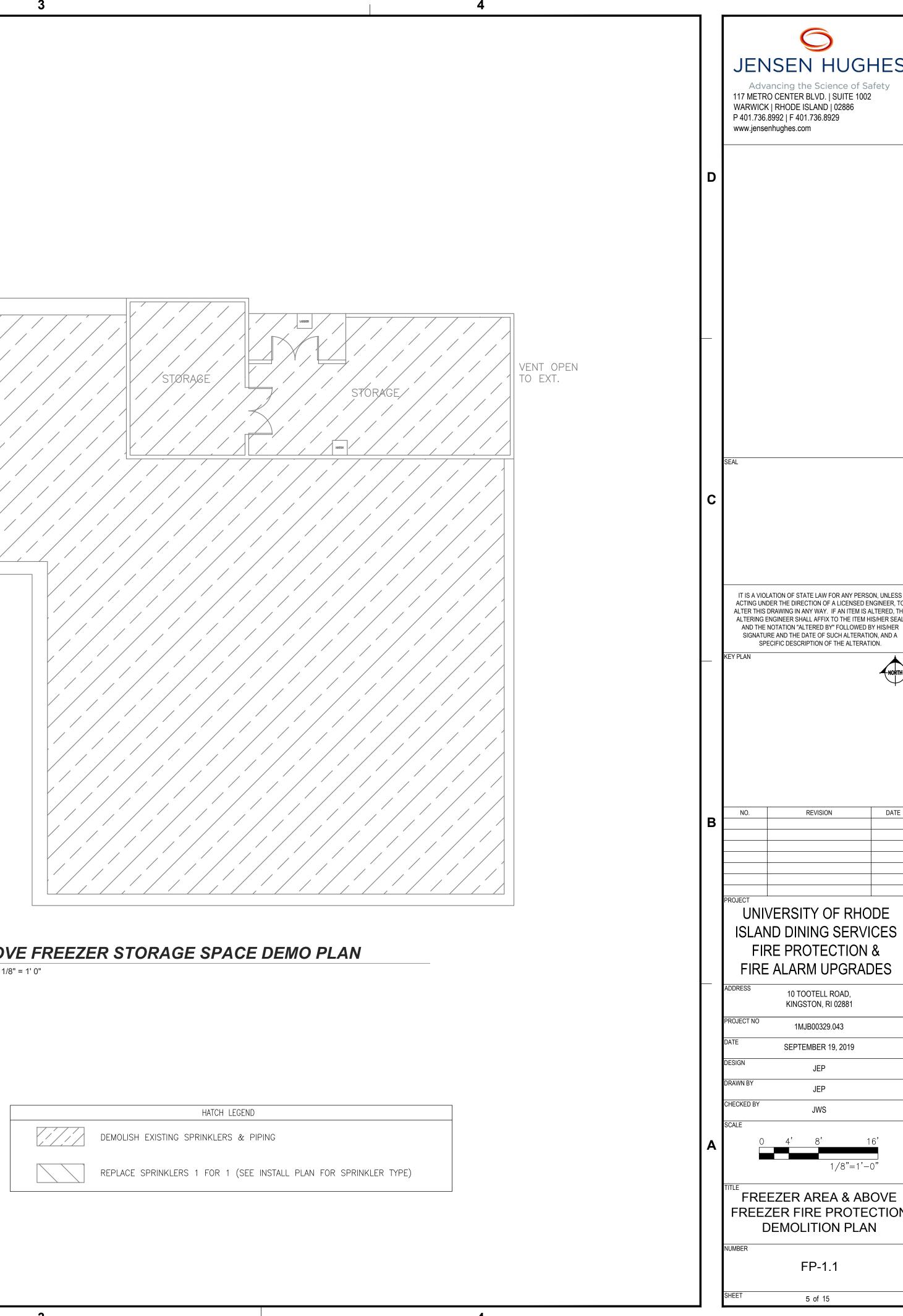


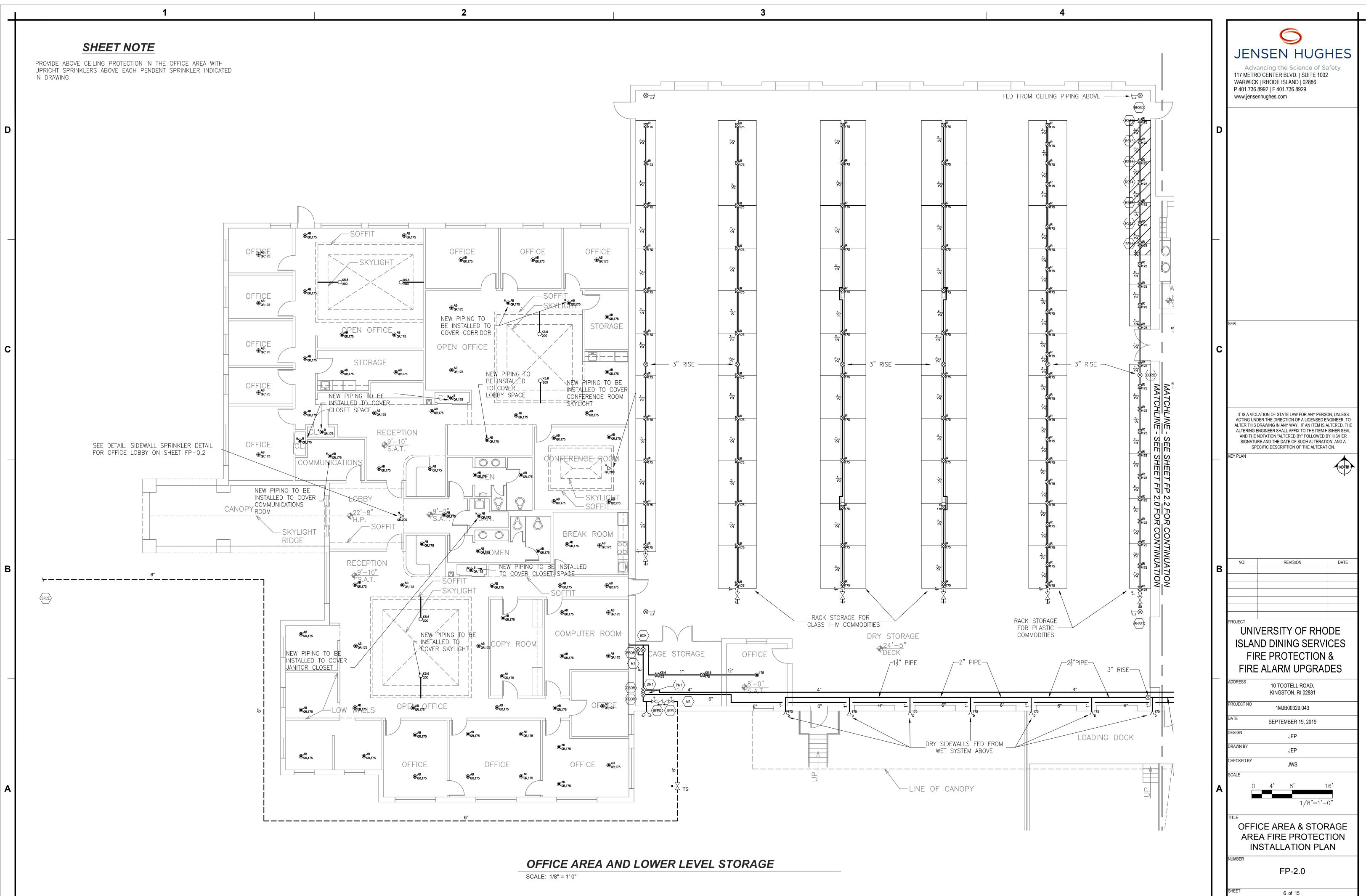


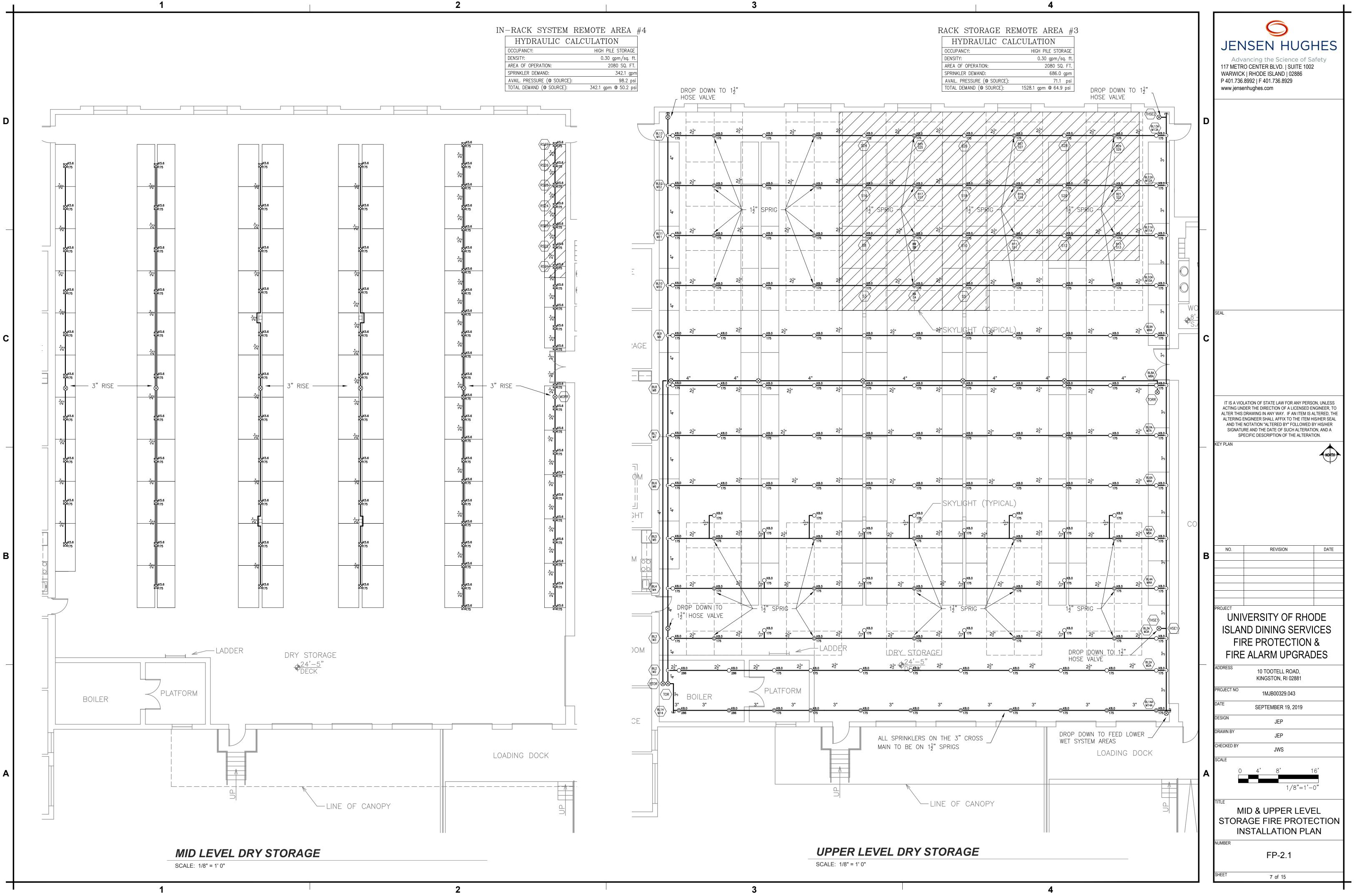


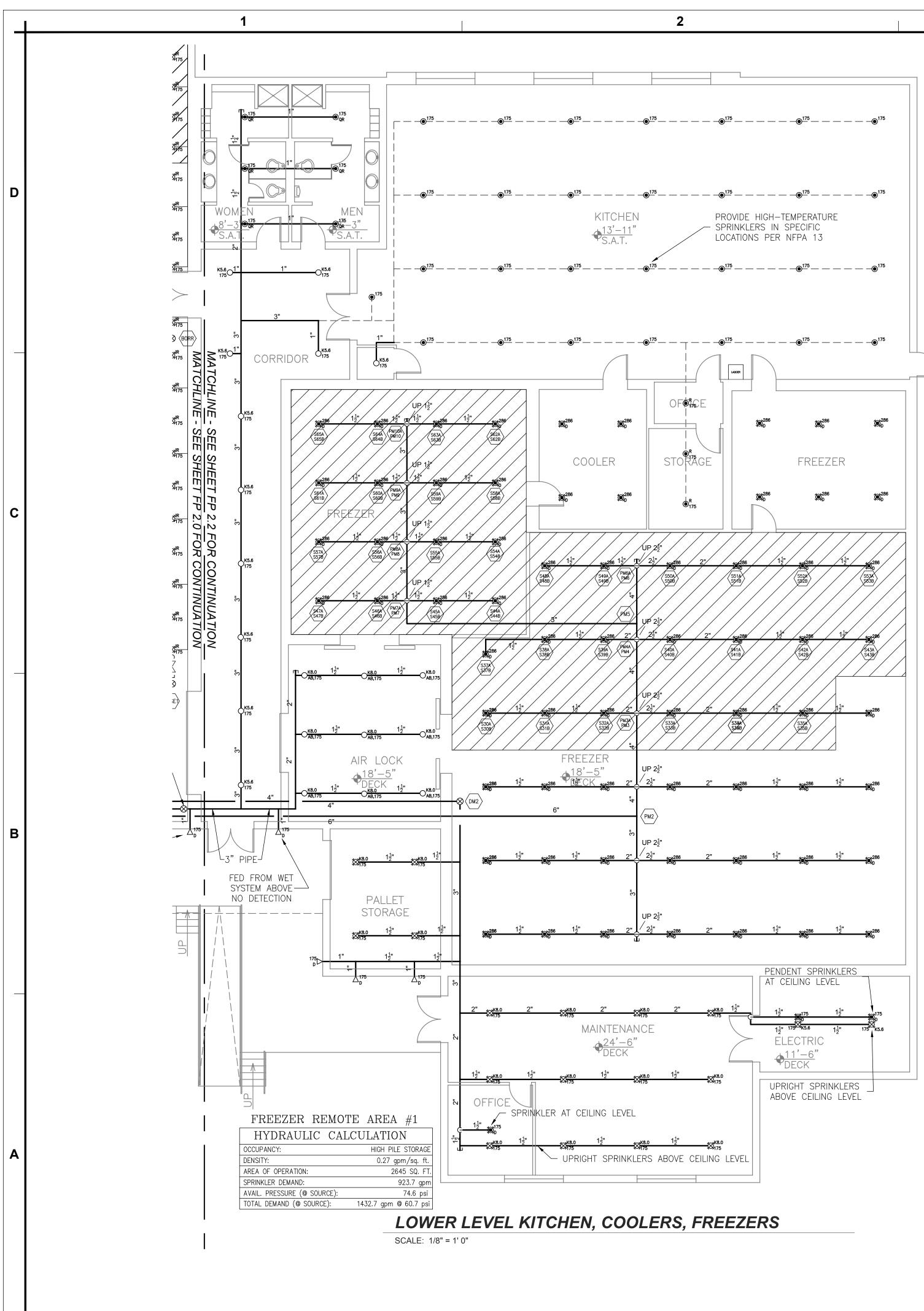


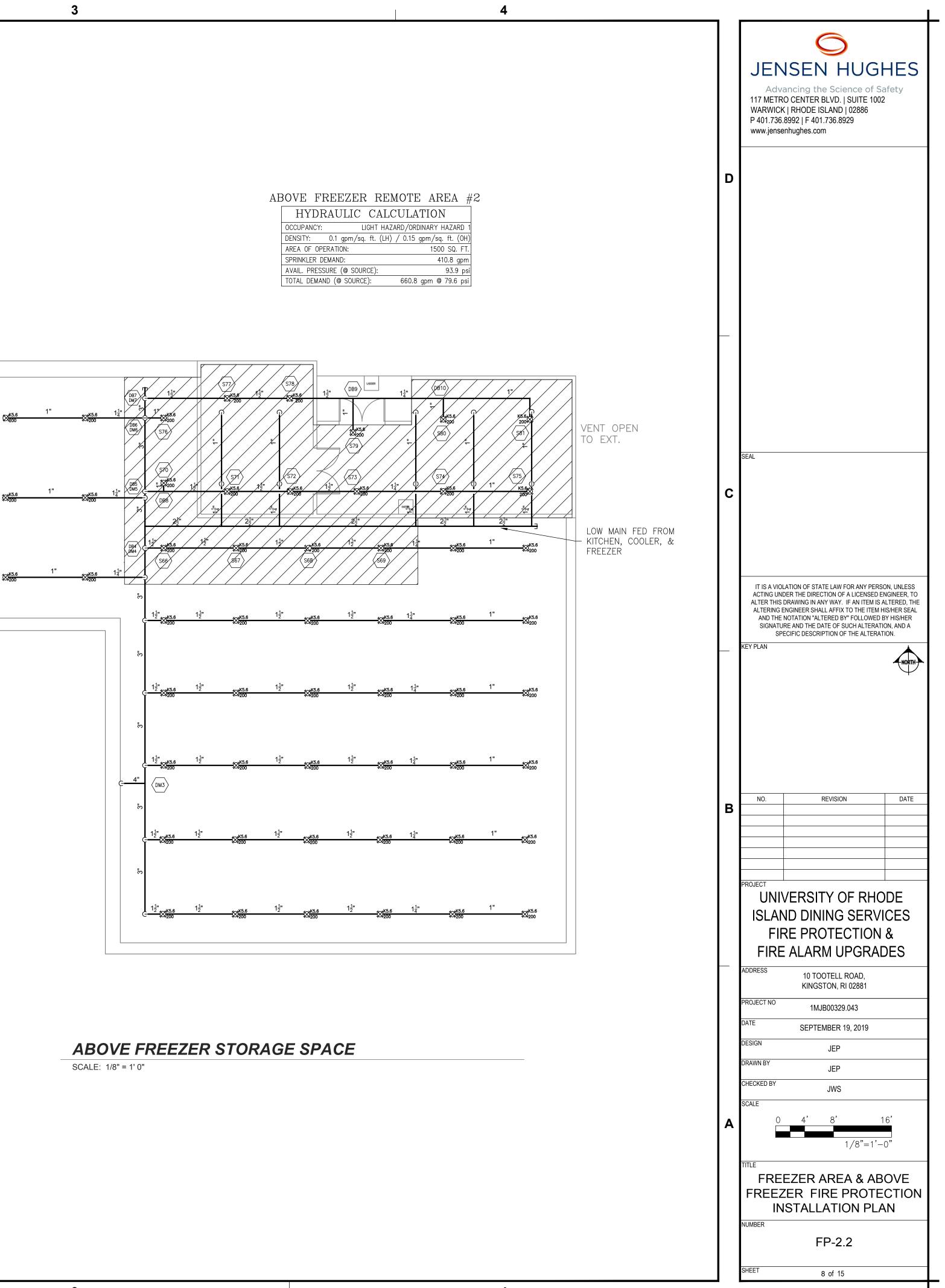


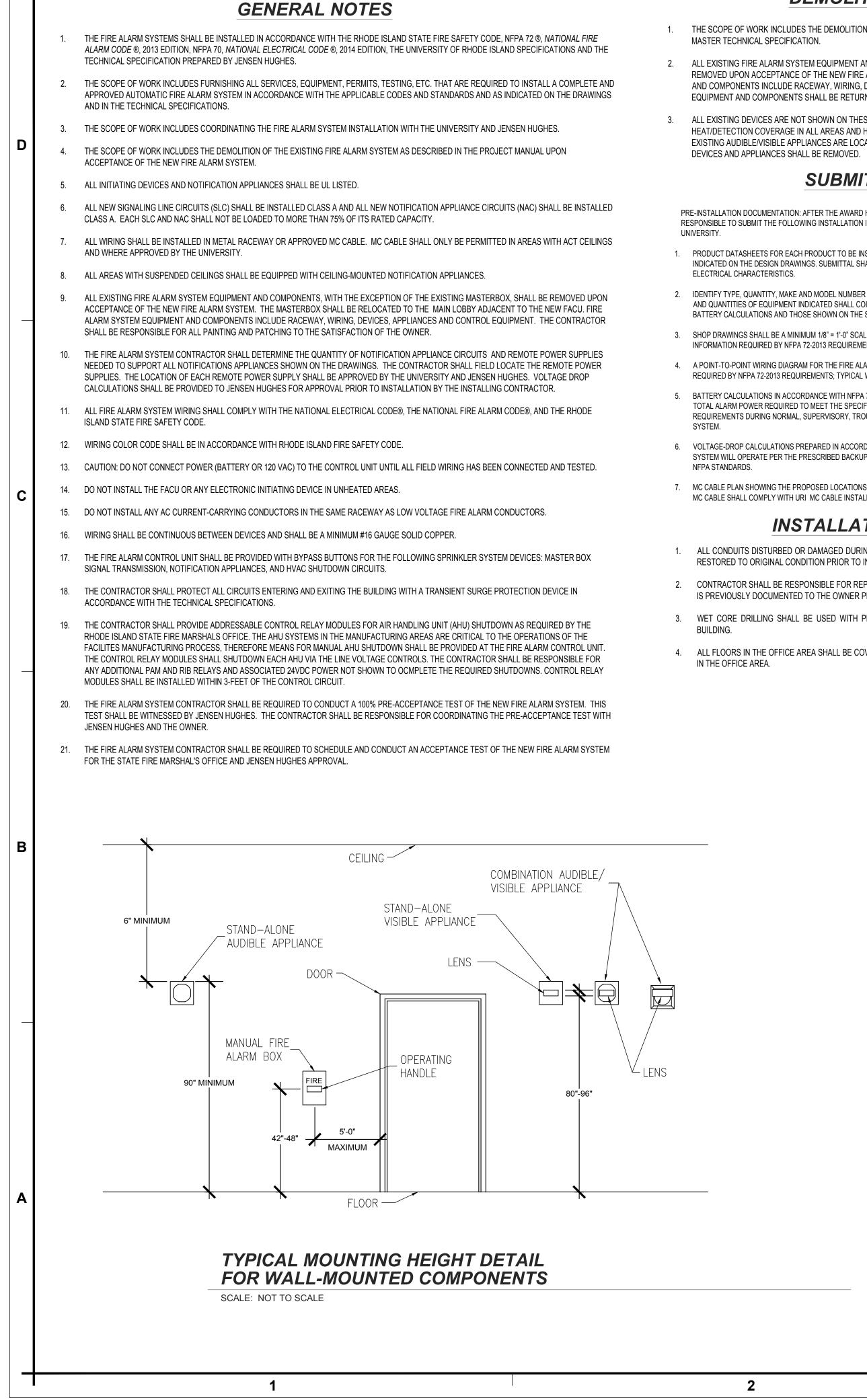












## **DEMOLITION NOTES**

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1. THE SCOPE OF WORK INCLUDES THE DEMOLITION OF THE EXISTING FIRE ALARM SYSTEM AS DESCRIBED IN THE

ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT AND COMPONENTS, EXCEPT THE EXISTING MASTERBOX, SHALL BE REMOVED UPON ACCEPTANCE OF THE NEW FIRE ALARM SYSTEM. EXISTING FIRE ALARM SYSTEM EQUIPMENT AND COMPONENTS INCLUDE RACEWAY, WIRING, DEVICES, AND APPLIANCES. ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT AND COMPONENTS SHALL BE RETURNED TO THE UNIVERSITY OF RHODE ISLAND.

ALL EXISTING DEVICES ARE NOT SHOWN ON THESE DRAWINGS. THE EXISTING BUILDING HAS COMPLETE HEAT/DETECTION COVERAGE IN ALL AREAS AND HEAT DETECTION ABOVE CEILINGS WHERE ACCESSIBLE. EXISTING AUDIBLE/VISIBLE APPLIANCES ARE LOCATED IN ALL HALLWAYS AND COMMON AREAS. ALL EXISTING

## **SUBMITTALS**

PRE-INSTALLATION DOCUMENTATION: AFTER THE AWARD HAS BEEN MADE, BUT PRIOR TO INSTALLATION, THE CONTRACTOR IS RESPONSIBLE TO SUBMIT THE FOLLOWING INSTALLATION INFORMATION FOR APPROVAL BY JENSEN HUGHES AND THE

1. PRODUCT DATASHEETS FOR EACH PRODUCT TO BE INSTALLED AS PART OF THE FIRE ALARM SYSTEM UPGRADES, AS INDICATED ON THE DESIGN DRAWINGS. SUBMITTAL SHALL INDICATE LISTING AND APPROVALS, SELECTED OPTIONS AND

IDENTIFY TYPE, QUANTITY, MAKE AND MODEL NUMBER OF EACH PIECE OF EQUIPMENT INCLUDED IN THE SUBMITTAL. TYPES AND QUANTITIES OF EQUIPMENT INDICATED SHALL COINCIDE WITH THE TYPES AND QUANTITIES OF EQUIPMENT USED IN THE BATTERY CALCULATIONS AND THOSE SHOWN ON THE SHOP DRAWINGS.

3. SHOP DRAWINGS SHALL BE A MINIMUM 1/8" = 1'-0" SCALE FLOOR PLANS AND CORRESPONDING RISER DIAGRAM INCLUSIVE OF INFORMATION REQUIRED BY NFPA 72-2013 REQUIREMENTS.

4. A POINT-TO-POINT WIRING DIAGRAM FOR THE FIRE ALARM CONTROL EQUIPMENT INSTALLATION INCLUSIVE OF INFORMATION REQUIRED BY NFPA 72-2013 REQUIREMENTS; TYPICAL WIRING DIAGRAMS ARE NOT ACCEPTABLE.

BATTERY CALCULATIONS IN ACCORDANCE WITH NFPA 72-2013 REQUIREMENTS AND SHOWING TOTAL STANDBY POWER AND TOTAL ALARM POWER REQUIRED TO MEET THE SPECIFIED SYSTEM REQUIREMENTS. INCLUDE A COMPLETE LIST OF CURRENT REQUIREMENTS DURING NORMAL, SUPERVISORY, TROUBLE, AND ALARM CONDITIONS FOR EACH COMPONENT OF THE

6. VOLTAGE-DROP CALCULATIONS PREPARED IN ACCORDANCE WITH NFPA 72-2013 REQUIREMENTS TO DEMONSTRATE THAT THE SYSTEM WILL OPERATE PER THE PRESCRIBED BACKUP TIME PERIODS AND UNDER ALL VOLTAGE CONDITIONS PER UL AND

7. MC CABLE PLAN SHOWING THE PROPOSED LOCATIONS OF MC CABLE FOR APPROVAL BY THE UNIVERSITY. INSTALLATION OF MC CABLE SHALL COMPLY WITH URI MC CABLE INSTALLATION REQUIREMENTS.

## **INSTALLATION NOTES**

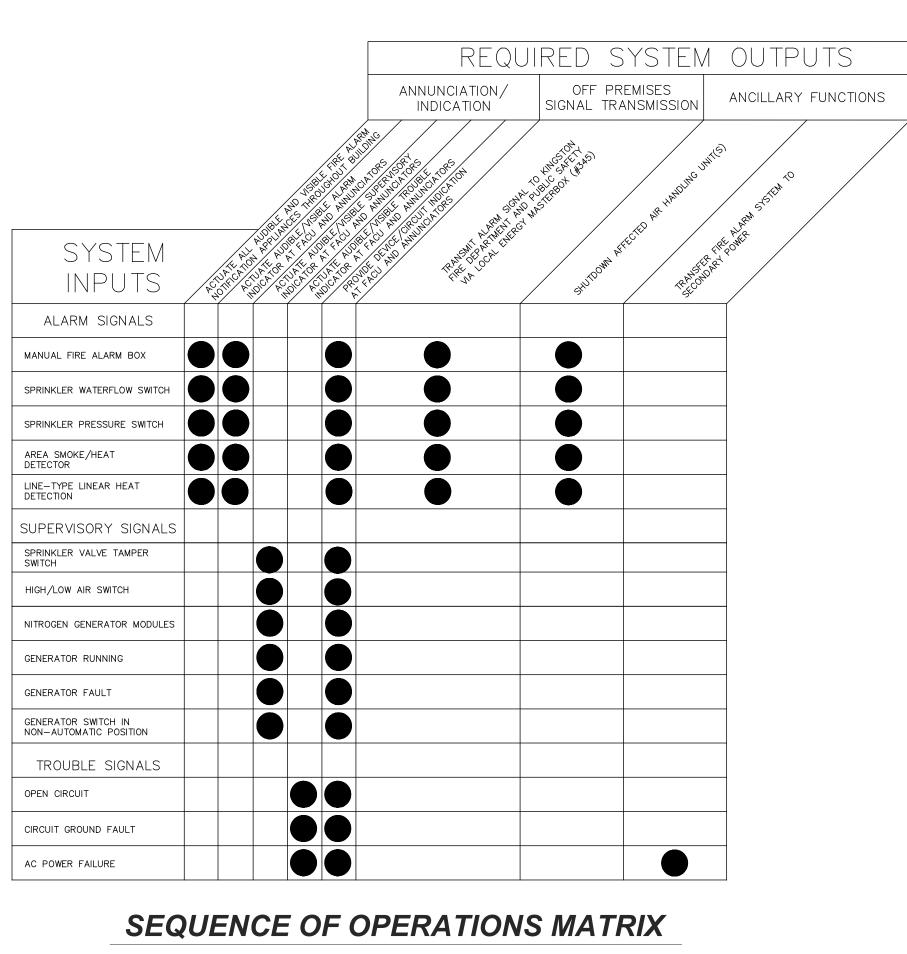
1. ALL CONDUITS DISTURBED OR DAMAGED DURING THE INSTALLATION BY CORE DRILLING OR CUTTING SHALL BE RESTORED TO ORIGINAL CONDITION PRIOR TO INSTALLATION.

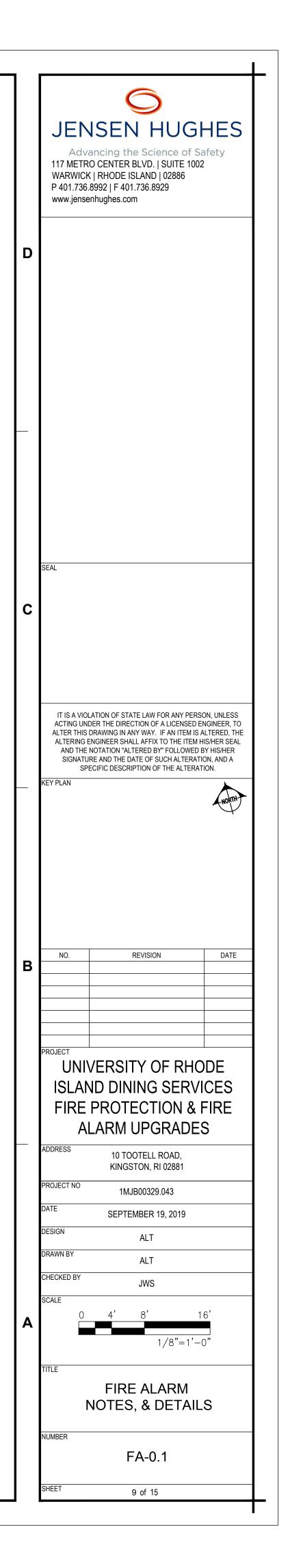
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGE INSIDE THE BUILDING UNLESS THE DAMAGE IS PREVIOUSLY DOCUMENTED TO THE OWNER PRIOR TO THE START OF THE WORK.

3. WET CORE DRILLING SHALL BE USED WITH PROPER PROTECTION IN PLACE TO PREVENT DAMAGE TO THE

4. ALL FLOORS IN THE OFFICE AREA SHALL BE COVERED WITH PLASTIC FLOOR COVERING DURING CONSTRUCTION

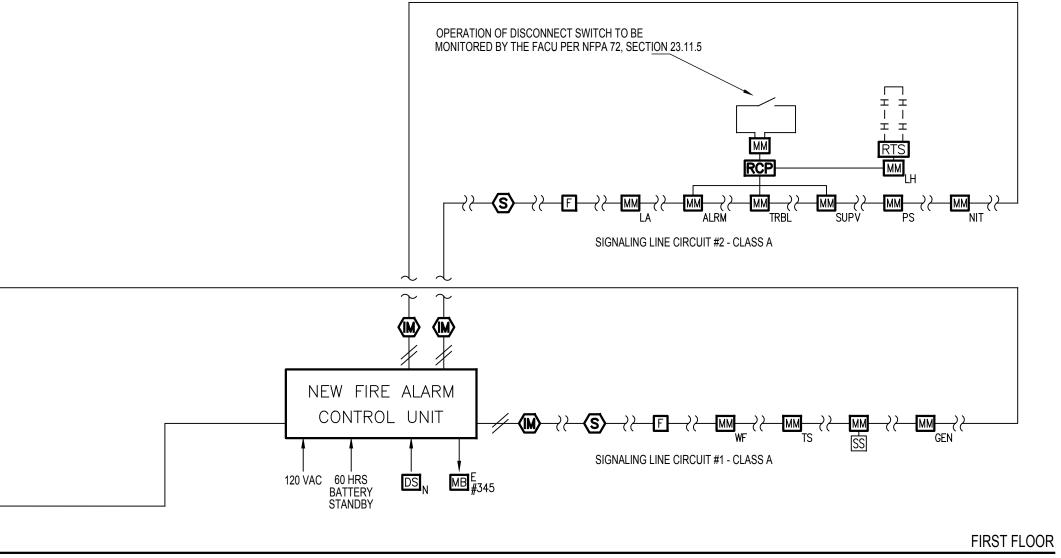
	FIRE A	LARM SYMBOL LE	EGEND
$\langle \mathbf{I} \rangle$	ADDRESSABLE HEAT DETECTOR		
Ś	ADDRESSABLE PHOTOELECTRIC	SMOKE DETECT	OR
F	ADDRESSABLE DOUBLE-ACTION N	/IANUAL FIRE AL	LARM BOX
	SPEAKER/STROBE NOTIFICATION	APPLIANCE - W	ALL MOUNTED (CANDELA RATING AS NOTED)
	SPEAKER/STROBE NOTIFICATION	APPLIANCE - CE	EILING MOUNTED (CANDELA RATING AS NOTED)
X cq	STROBE NOTIFICATION APPLIANC	E - WALL MOUN	ITED
Xcq	STROBE NOTIFICATION APPLIANC	E - CEILING MO	UNTED
FACU	FIRE ALARM CONTROL UNIT		
MB #345	MASTER BOX (EXISTING TO REMA	IN)	
M	FAULT ISOLATION MODULE		
ММ	ADDRESSABLE MONITOR MODULE	Ē	
СМ	ADDRESSABLE CONTROL MODULI	E	
DS	FIRE DRILL KEY TEST SWITCH		
К	FIRE DEPARTMENT KNOX KEY BO	x	
RCP	PRE-ACTION RELEASING CONTRO	L PANEL	
RTS	REMOTE TEST SWITCH		
— H — H —	PROTECTOWIRE LINEAR HEAT DE	TECTION	
SS	TRANSIENT VOLTAGE SURGE SUPPRE	SSION	
TC	TERMINAL CABINET		
	S	UBSCRIPT LEGEN	ID
TS	TAMPER SWITCH	E	EXISTING TO REMAIN
WF	WATER FLOW SWITCH	х	EXISTING EQUIPMENT TO BE REMOVED
PS	PRESSURE SWITCH	ER	EXISTING EQUIPMENT TO BE RELOCATED
WP	WEATHER-PROOF	LH	LINEAR HEAT DETECTION
ALRM	ALARM	SUPV	SUPERVISORY
TRBL	TROUBLE	GEN	GENERATOR
LA	LOW AIR	NIT	NITROGEN





2 CONCEPTUAL RISER DIAGRAM NOTES 1. THE RISER DIAGRAM IS CONCEPTUAL IN NATURE. IT DOES NOT INTEND TO REPRESENT ACTUAL WIRING AND RACEWAY INSTALLATION. ALL CONDUCTORS AND WIRING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, NFPA 72-2013 EDITION AND NFPA 70-2014 EDITION. 2. THE CONTRACTOR SHALL FURNISH AND INSTALL REMOTE NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLIES AS NECESSARY. A SMOKE DETECTOR SHALL BE INSTALLED IN THE VICINITY OF EACH REMOTE POWER SUPPLY. EACH REMOTE POWER SUPPLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION APPROVED BY JENSEN HUGHES AND THE UNIVERSITY. 3. THE INSTALLING CONTRACTOR SHALL FIELD LOCATE THE FAULT ISOLATOR MODULES. A MINIMUM OF THREE FAULT ISOLATOR MODULES SHALL BE INSTALLED ON EACH SIGNALING LINE CIRCUIT. IN NO CIRCUMSTANCES SHALL MORE THAN 25 DEVICES BE LOCATED BETWEEN FAULT ISOLATOR MODULES. FAULT ISOLATION MODULES SHALL BE PROVIDED TO ISOLATE EACH FLOOR OF ALL SLCS. 4. THE NUMBER OF CONDUCTORS SHALL BE DETERMINED BY THE FIRE ALARM SYSTEM CONTRACTOR UPON DETERMINING THE REQUIRED QUANTITY AND LOCATIONS OF REMOTE POWER SUPPLIES NECESSARY FOR THE FIRE ALARM SYSTEM TO OPERATE AS DESCRIBED IN THE MASTER TECHNICAL SPECIFICATIONS. 5. THE SEPARATION BETWEEN THE OUTGOING AND RETURN CIRCUITS SHALL BE A MINIMUM OF 1-FOOT VERTICALLY AND 4-FEET HORIZONTALLY, WHERE PRACTICAL. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION AND CONNECTION TO BUILDING POWER FOR ALL FIRE ALARM CONTROL EQUIPMENT. NOTIFICATION APPLIANCE R CIRCUIT #2 NAC CLASS A POWER NOTIFICATION APPLIANCE CIRCUIT #1 CLASS A 120 VAC (EMERGENCY CIRCUIT) FIRST FLOOR 2 1

	ADDRESSABLE HEAT D
s	ADDRESSABLE PHOTO
F	ADDRESSABLE DOUBLE
<b>X</b> cd	SPEAKER/STROBE NOT
	SPEAKER/STROBE NOT
Xcq	STROBE NOTIFICATION
Xcd	STROBE NOTIFICATION
FACU	FIRE ALARM CONTROL
MB #345	MASTER BOX (EXISTING
M	FAULT ISOLATION MOD
ММ	ADDRESSABLE MONITO
СМ	ADDRESSABLE CONTRO
DS	FIRE DRILL KEY TEST S
К	FIRE DEPARTMENT KNO
RCP	PRE-ACTION RELEASING
RTS	REMOTE TEST SWITCH
— Н — Н —	PROTECTOWIRE LINEA
SS	TRANSIENT VOLTAGE SUR
TC	TERMINAL CABINET
TS	TAMPER SWITCH
WF	WATER FLOW SWITC
PS	PRESSURE SWITCH
WP	WEATHER-PROOF
ALRM	ALARM
TRBL	TROUBLE
LA	LOW AIR



CONCEPTUAL RISER DIAGRAM

SCALE: NOT TO SCALE

3

FIRE ALARMS	SYMBOL LE	GEND
LE HEAT DETECTOR		
LE PHOTOELECTRIC SMOK	E DETECT	ÖR
LE DOUBLE-ACTION MANUA	L FIRE AL	ARM BOX
ROBE NOTIFICATION APPLI	ANCE - W/	ALL MOUNTED (CANDELA RATING AS NOTED)
ROBE NOTIFICATION APPLI	ANCE - CE	EILING MOUNTED (CANDELA RATING AS NOTED)
TIFICATION APPLIANCE - WA	LL MOUN	TED
TIFICATION APPLIANCE - CE	ILING MOU	UNTED
CONTROL UNIT		
X (EXISTING TO REMAIN)		
TION MODULE		
LE MONITOR MODULE		
LE CONTROL MODULE		
EY TEST SWITCH		
TMENT KNOX KEY BOX		
RELEASING CONTROL PAN	EL	
ST SWITCH		
VIRE LINEAR HEAT DETECTION	NC	
OLTAGE SURGE SUPPRESSION		
BINET		
SUBSCR	IPT LEGEN	D
SWITCH	E	EXISTING TO REMAIN
FLOW SWITCH	X	EXISTING EQUIPMENT TO BE REMOVED
RE SWITCH	^ ER	EXISTING EQUIPMENT TO BE RELOCATED
	ΕŔ	

LH LINEAR HEAT DETECTION

SUPV SUPERVISORY

GEN GENERATOR

NIT NITROGEN

		8992   F 401.736.8929 nhughes.com	
Р			
D			
	SEAL		
C			
•			
	ACTING UNI	ATION OF STATE LAW FOR ANY F DER THE DIRECTION OF A LICENS DRAWING IN ANY WAY. IF AN ITE!	ED ENGINEER, TO
	ALTERING E AND THE	ENGINEER SHALL AFFIX TO THE IT NOTATION "ALTERED BY" FOLLOV RE AND THE DATE OF SUCH ALTE	EM HIS/HER SEAL NED BY HIS/HER
	SP KEY PLAN	ECIFIC DESCRIPTION OF THE ALTI	
			NORTH
В	NO.	REVISION	DATE
		/ERSITY OF RH ND DINING SER	
		PROTECTION LARM UPGRAD	
_	ADDRESS	10 TOOTELL ROAD,	
	PROJECT NO	KINGSTON, RI 02881	
	DATE	1MJB00329.043 SEPTEMBER 19, 2019	
	DESIGN	ALT	
	DRAWN BY	ALT	
	SCALE	JWS	
Α	0	4' 8'	16'
	TITLE	1/8"=1	1'-0"
		ALARM RISER	
	NUMBER	FA-0.2	
		ι <u>Γ</u> -υ.Ζ	
	SHEET	10 of 15	

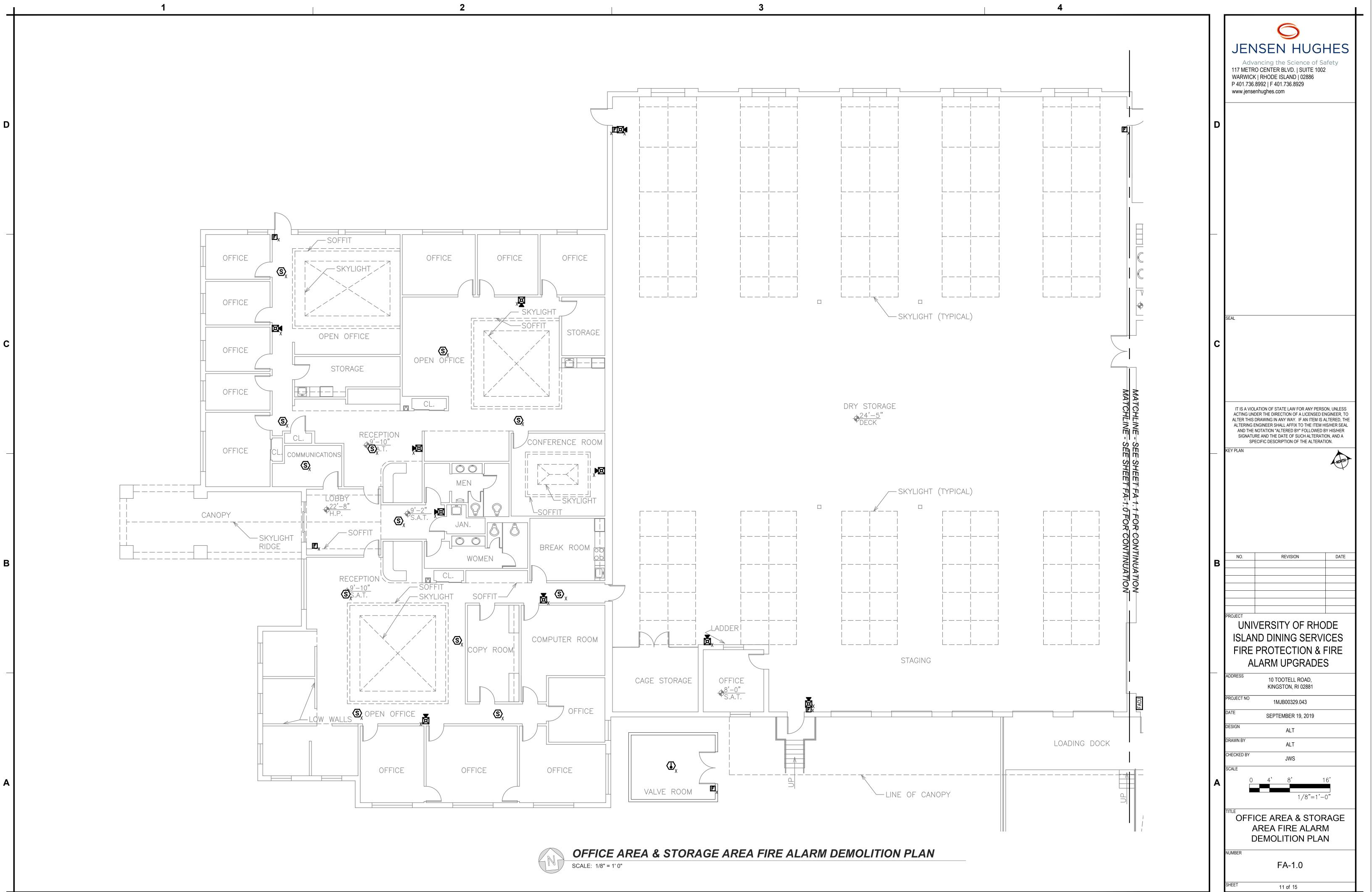
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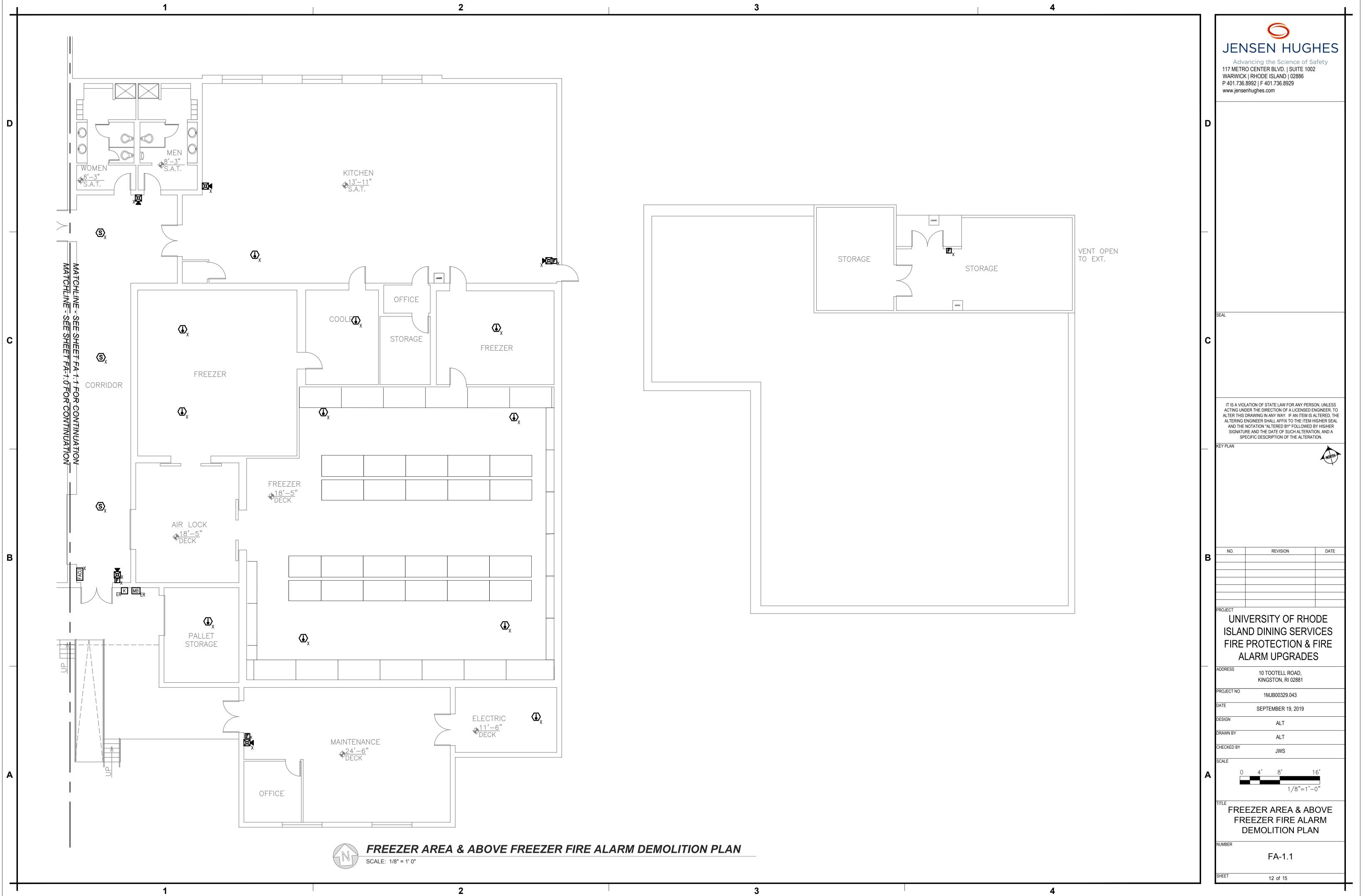
JENSEN HUGHES

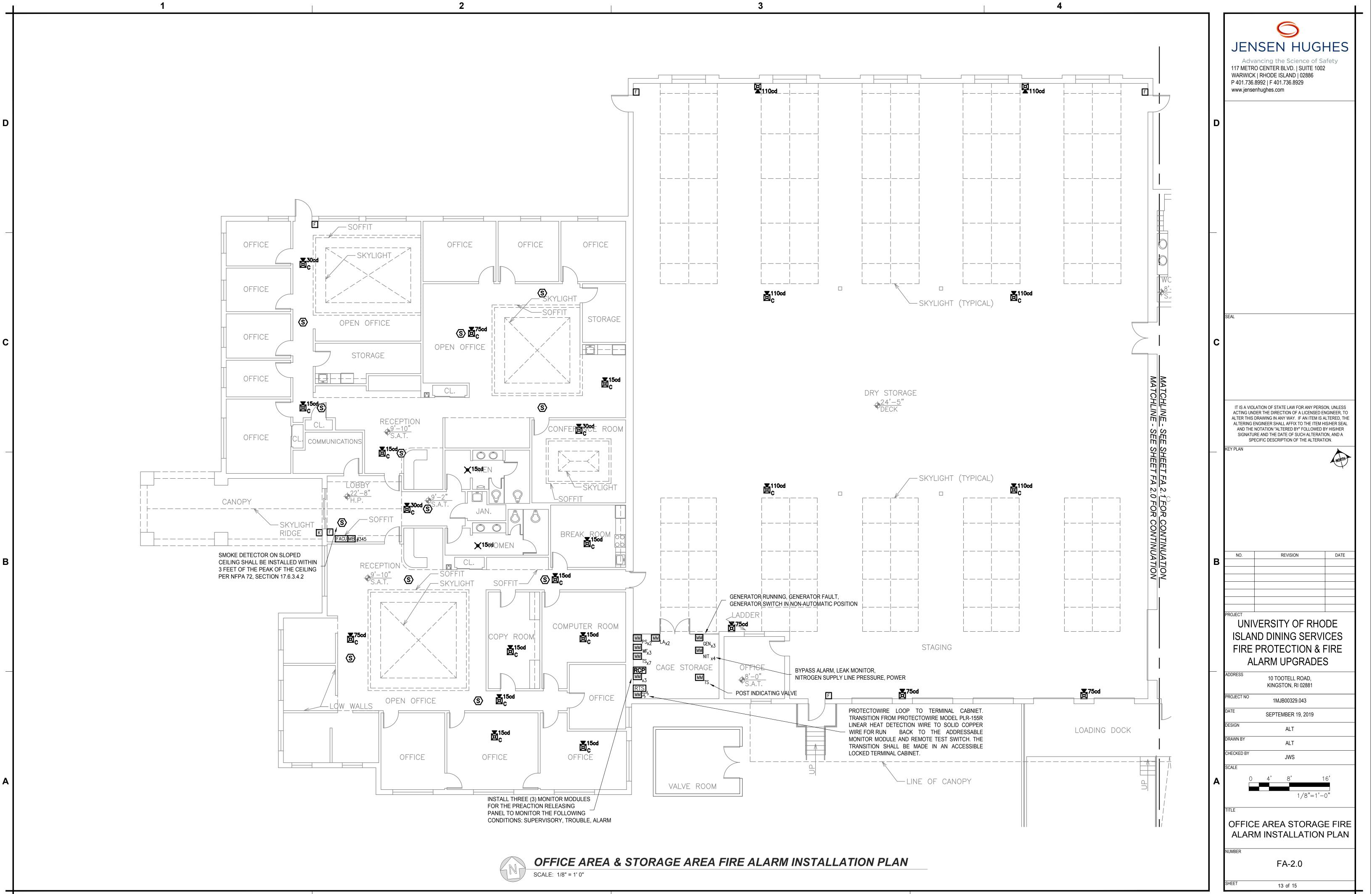
Advancing the Science of Safety

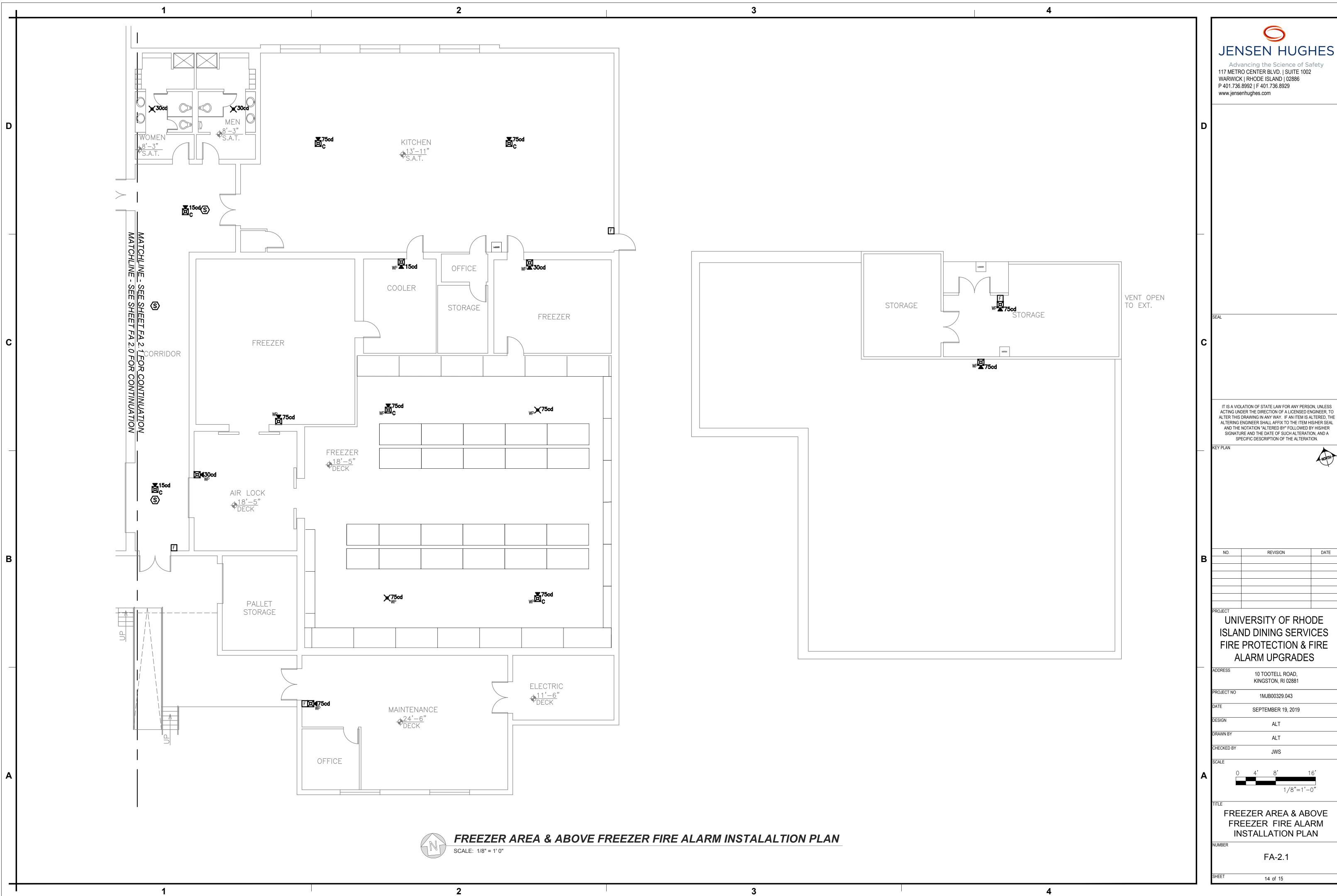
117 METRO CENTER BLVD. | SUITE 1002 WARWICK | RHODE ISLAND | 02886

P 401.736.8992 | F 401.736.8929

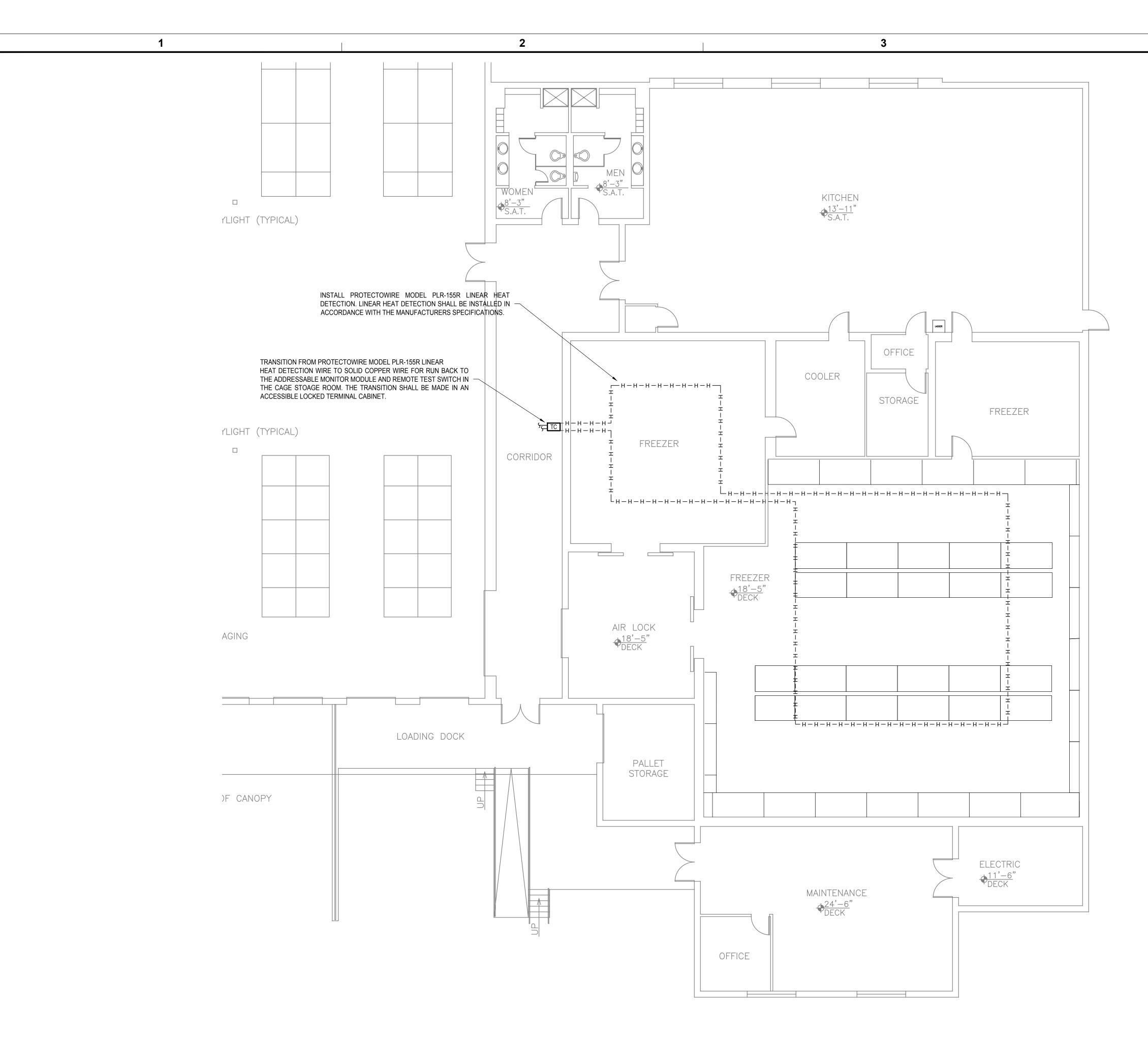








IT IS A VIOLATION OF STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DRAWING IN ANY WAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NORTH DATE UNIVERSITY OF RHODE ISLAND DINING SERVICES FIRE PROTECTION & FIRE ALARM UPGRADES 10 TOOTELL ROAD, KINGSTON, RI 02881 SEPTEMBER 19, 2019 1/8"=1'-0 FREEZER AREA & ABOVE



**FREEZER AF** SCALE: 1/8" = 1' 0"

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FREEZER AREA FIRE PROTECTION DETECTION INSTALLATION PLAN

