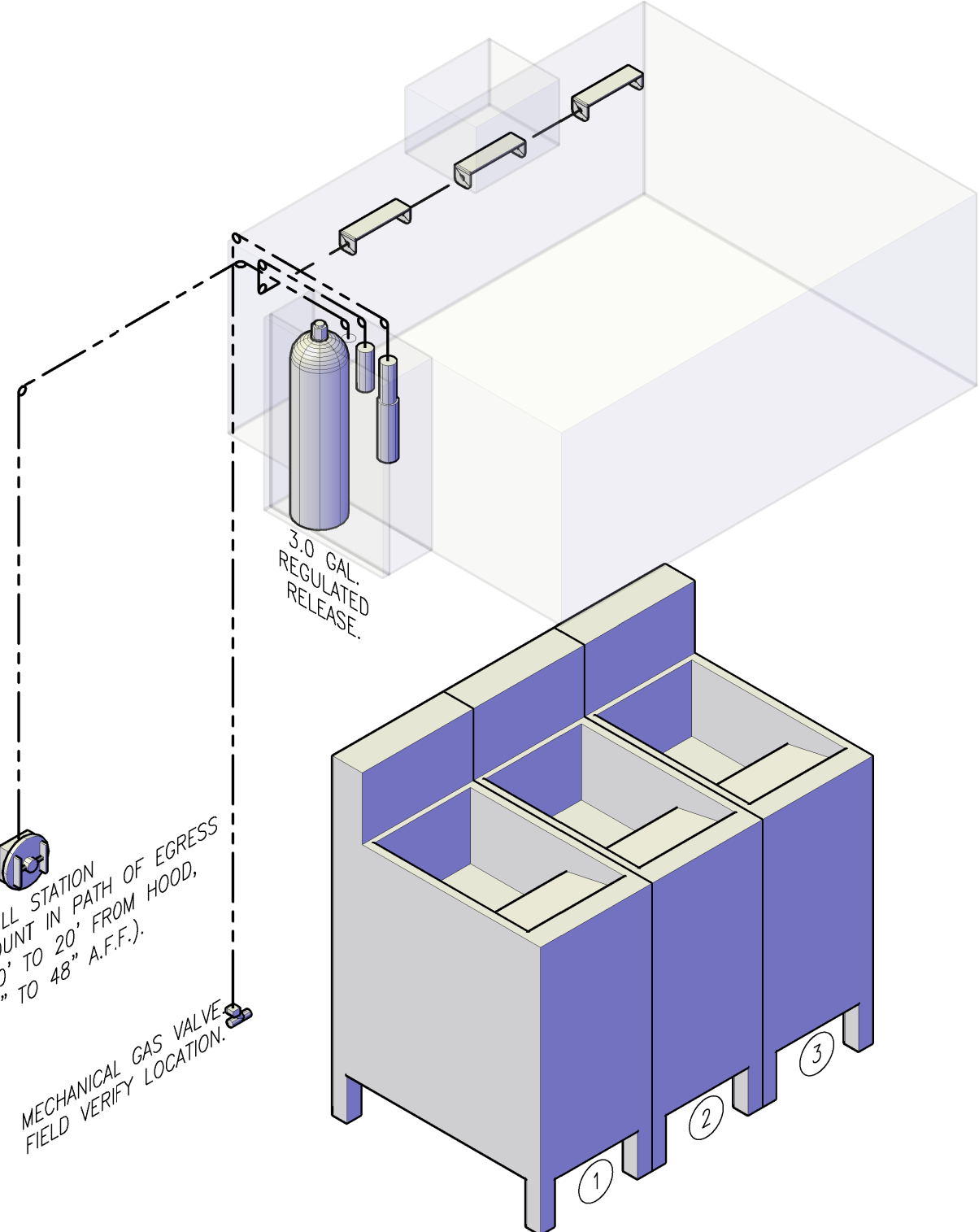


# ROUND 1 PUYALLUP KITCHEN HOOD SYSTEM

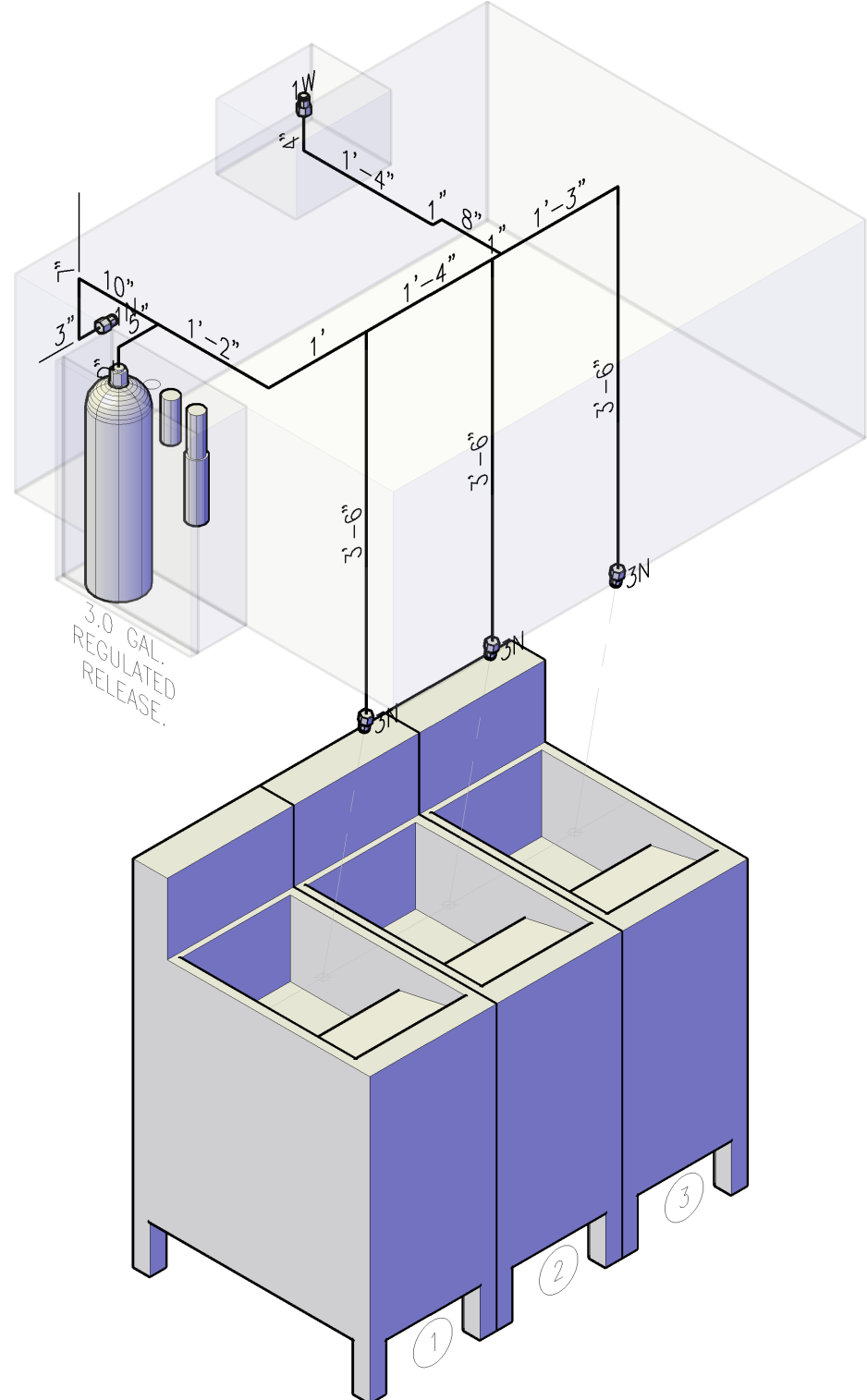
DWG No.	DWG Title
KH-001	COVER SHEET
KH-002	EGRESS PLAN



BRANCH 455  
9500 10TH AVENUE SOUTH, SUITE 100  
SEATTLE, WA 98108  
PHONE: 206-291-1500  
FAX: 206-291-1500

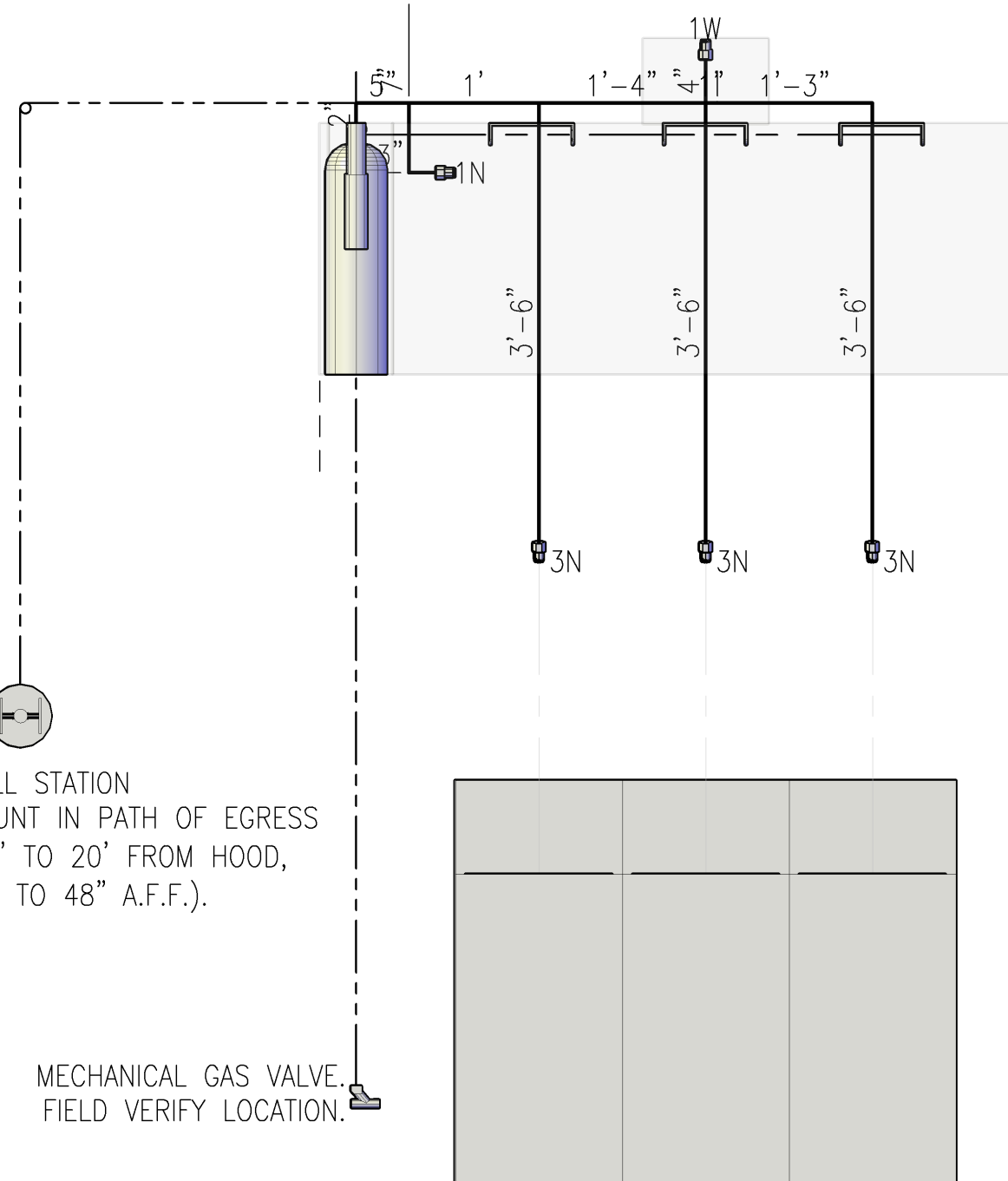


**ISOMETRIC DETECTION VIEW**  
SCALE: 3/4" = 1'-0"



**ISOMETRIC PIPING VIEW**  
SCALE: 3/4" = 1'-0"

ALL APPLIANCE DIMENSIONS DENOTE HAZARD AREA  
FLOOR SHOULD BE MARKED FOR APPLIANCE LOCATION



**ELEVATION VIEW**  
SCALE: 3/4" = 1'-0"

## BILL OF MATERIALS

CONTROL EQUIPMENT					TOTALS	
ASSEMBLY DESCRIPTION	PART NO.	INCLUDED COMPONENTS & PART NUMBERS	FLOW	GAL.	QTY.	GALLONS
3.0 GALLON MOUNTING BRACKET SHIPPING ASSEMBLY	430332	429898 3.0 GALLON MOUNTING BRACKET ASSEMBLY 429862 3.0 GALLON TANK ASSEMBLY	11	3.0	1	3.0

### SYSTEM CAPACITIES & TOTALS

TOTAL GALLONS	TOTAL FLOWS ALLOWED	TOTAL FLOWS USED	TOTAL NOZZLES USED
3.0	11	11	5

### APPLIANCE PROTECTION

APPLIANCE	NOZZLE	MFG.	PART NO.	PROXIMITY	NOZZLE HEIGHT	FLOWS	QTY.	TOTAL FLOWS
FRYER, SINGLE NOZZLE - FULL OR SPLIT VAT (18" X 27-3/4" MAX FRYPOT W/ DRIPBOARD SIZE)	3N	ANSUL	439841	HIGH	25" - 35" (635-889mm)	3	3	9

### DUCT PROTECTION

DUCT	NOZZLE	MFG.	PART NO.	MAXIMUM DUCT SIZE	FLOWS	QTY.	TOTAL FLOWS
DUCT, SINGLE NOZZLE	1W	ANSUL	439839	50' PERIMETER OR 14" DIAMETER	1	1	1

### PLENUM PROTECTION

PLENUM	NOZZLE	MFG.	PART NO.	MAXIMUM PLENUM LENGTH	FLOWS	QTY.	TOTAL FLOWS
HORIZONTAL PROTECTION - SINGLE BANK FILTER	1N	ANSUL	439838	10' LINEAR FEET	1	1	1

### OTHER PARTS

DESCRIPTION	PART NO.	MOUNTING	QTY.
LT-30-R CARTRIDGE	423435	INSIDE AUTOMAN	1
2 1/2 IN. GAS VALVE	29537	INSTALL ON GAS SUPPLY LINE - FIELD VERIFY	1
SERIES DETECTOR	435547	INSTALLED ABOVE APPLIANCES - SEE PLAN	2
TERMINAL DETECTOR	435546	INSTALLED ABOVE APPLIANCES - SEE PLAN	1
REMOTE MANUAL PULL STATION (WITH 50' WIRE ROPE)	435680	4" SO. BOX - 1-1/2" DEEP MINIMUM - SEE PLAN	1
FUSIBLE LINKS - VERIFY TEMPERATURE RATING ON SITE	VERIFY	MOUNTS IN THERMAL DETECTOR BRACKET	3

FIELD VERIFY REQUIRED QUANTITIES OF OTHER PARTS SUCH AS PULLEY ELBOWS, PULLEY TEES, ELECTRICAL SWITCHES AND FUSIBLE LINKS.

### COOKING APPLIANCE SCHEDULE

No.	APPLIANCE DESCRIPTION	DEPTH (IN.)	LENGTH (IN.)	HAZARD AREA	OBSTRUCTION	NOZZLE TYPE	QTY.	FLOWS
1	FRYER W/ DRIPBOARD	22	14	36"	NONE	3N	1	3
2	FRYER W/ DRIPBOARD	22	14	36"	NONE	3N	1	3
3	FRYER W/ DRIPBOARD	22	14	36"	NONE	3N	1	3

### EXHAUST HOOD INFORMATION

No.	HOOD DESCRIPTION	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	FILTER TYPE	NOZZLE TYPE	QTY.	FLOWS
1	EXHAUST HOOD	60	48	24	SINGLE BANK	1N	1	1

### EXHAUST DUCT INFORMATION

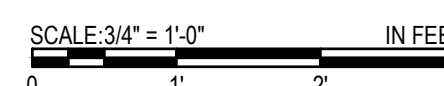
No.	EXHAUST DUCT LOCATION	WIDTH (IN.)	LENGTH (IN.)	PERIMETER (IN.)	NOZZLE TYPE	QTY.	FLOWS
1	EXHAUST HOOD	12	10	44	1W	1	1

### 3.0 GALLON SYSTEM PIPING REQUIREMENTS

REQUIREMENTS	SUPPLY LINE	DUCT BRANCH LINE	PLENUM BRANCH LINE	APPLIANCE BRANCH LINE
1 PIPE SIZE	3/8 IN.	3/8 IN.	3/8 IN.	3/8 IN.
2 MAXIMUM LENGTH	40 FT.	8 FT.	4 FT.	12 FT.
3 MAXIMUM RISE	6 FT.	4 FT.	2 FT.	2 FT.
4 MAX. 90° ELBOWS	9	4	4	6
5 MAXIMUM TEES	1	2	2	4
6 MAX. FLOW NUMBERS	11	4	2	4

#### Exceptions:

- Twelve flow numbers are allowed on any one tank for duct and plenum protection only.
- Twelve flow numbers are allowed with any one tank using only two-flow appliance nozzles.
- Twelve flow numbers are allowed with any one tank using only three-flow appliance nozzles.



## PROJECT DIRECTORY

**Site**  
ROUND 1 PUYALLUP  
3500 SOUTH MERIDIAN, UNIT 900  
PUYALLUP, WA 98373  
PHONE: 206-445-9382  
CONTACT: JIM BACHELDER

**Johnson Controls District - 458**  
6030 10TH AVENUE SOUTH, SUITE 100  
SEATTLE, WA 98108  
PHONE: 206-291-1400  
FAX: 206-291-1500  
SERVICE: 206-291-1400

## JOHNSON CONTROLS CONTACTS

Sales Representative	Drawings Prepared By	Drawings Reviewed By
STEVE RAAB STEVE.RAAB@JCI.COM PHONE: 206-858-9523	JEREMY KAPLA JEREMY.KAPLA@JCI.COM PHONE: 414-524-1135	STEVE RAAB STEVE.RAAB@JCI.COM PHONE: 206-858-9523

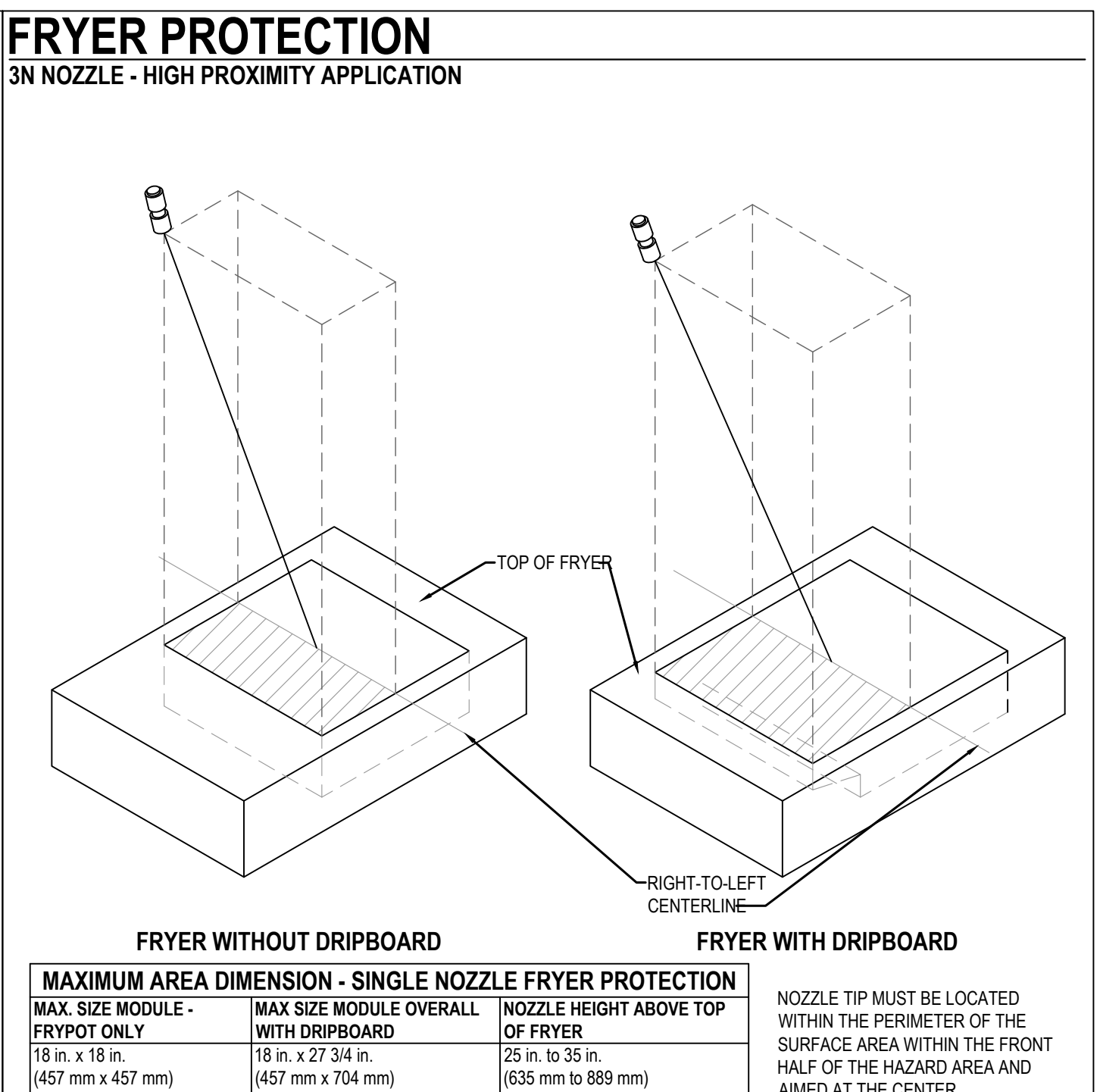
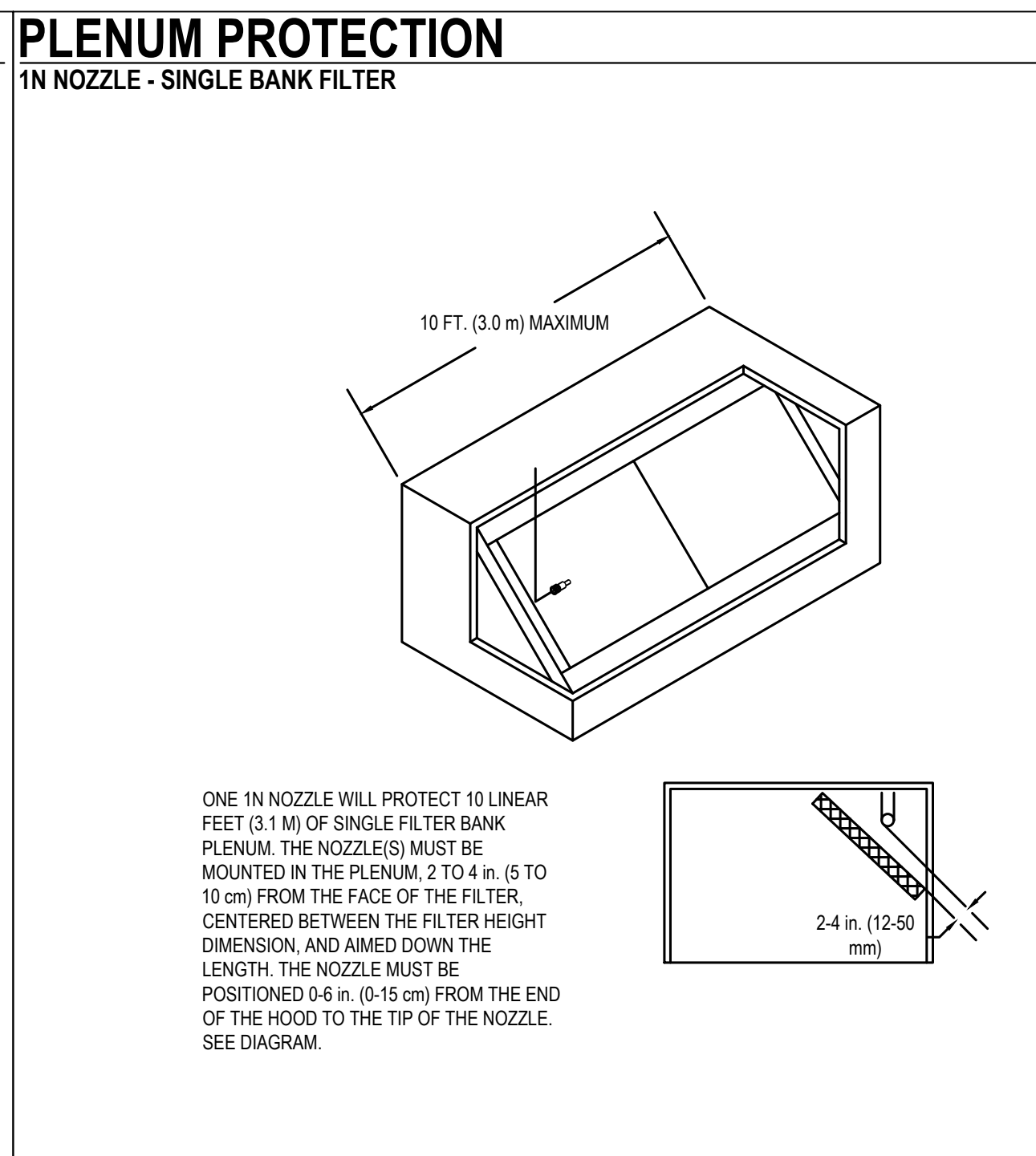
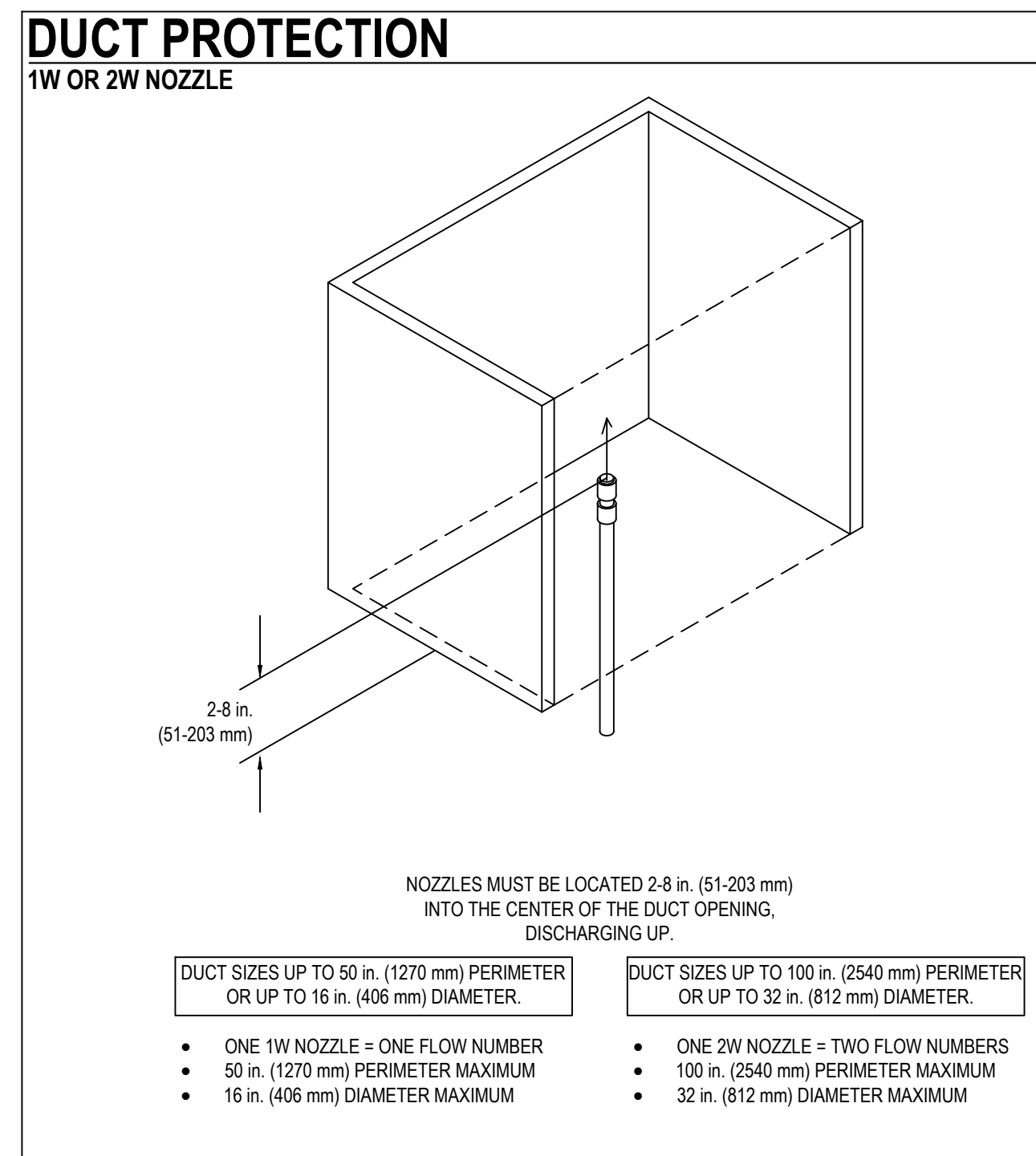
## APPLICABLE CODES & STANDARDS

JURISDICTIONS WITHIN THE STATE MAY HAVE AMENDMENTS TO THE STATE ADOPTED CODE. CHECK WITH THE LOCAL JURISDICTION AUTHORITY FOR MORE DETAILS.  
UL 300  
NFPA 96:2011 EDITION  
NFPA 17A, 2009 EDITION

## SCOPE OF WORK

FIRE EXTINGUISHER SYSTEM INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS FOR RESTAURANT HOOD AND APPLIANCE PROTECTION. ALL STANDARDS AS PER NFPA 17A:2009, NFPA 96:2011, EDITION AND ANSUL 2013 R-102 DESIGN CRITERIA.

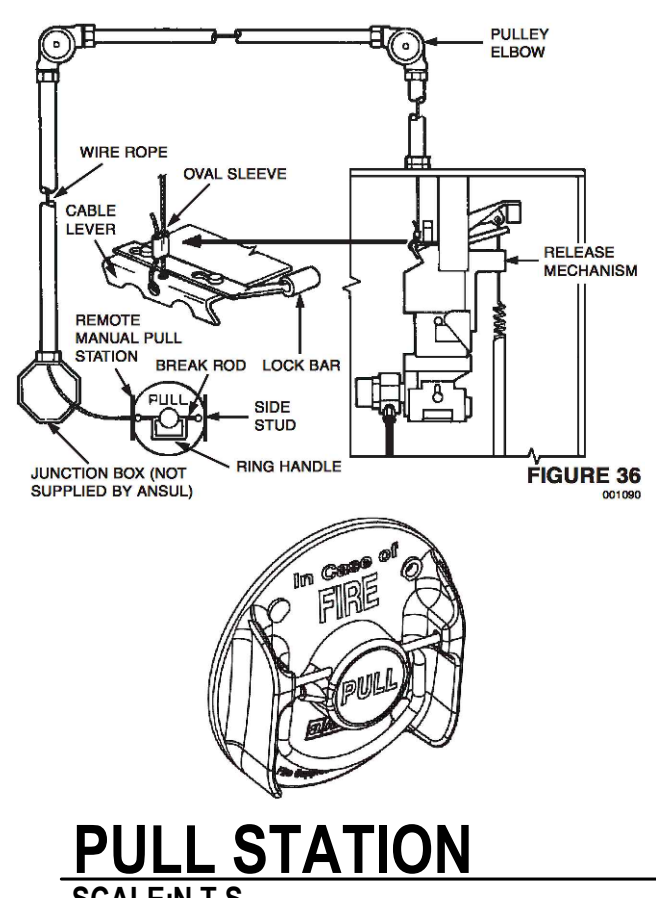
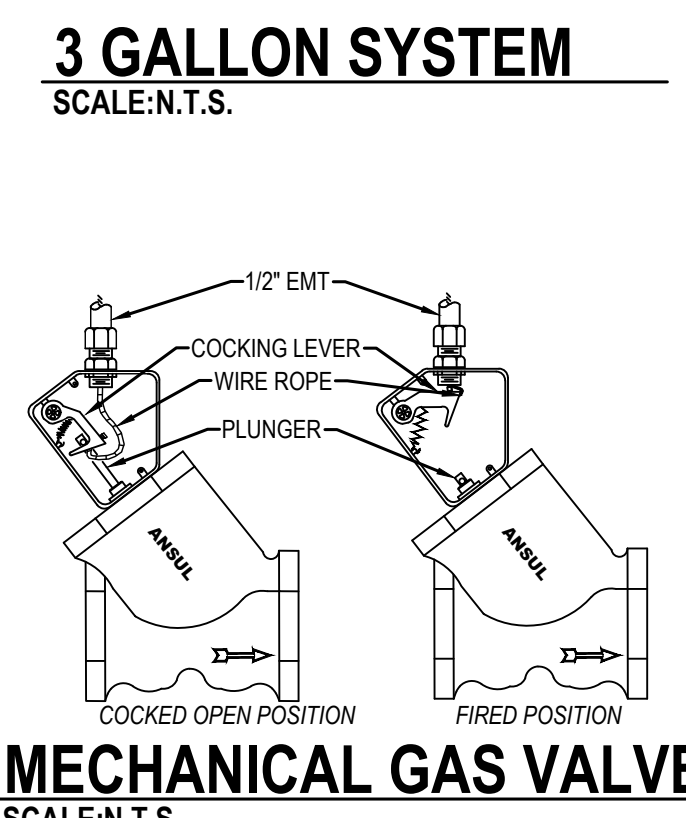
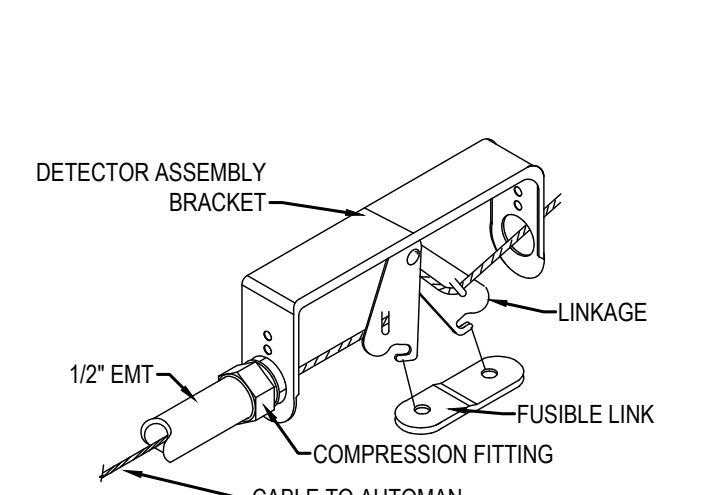
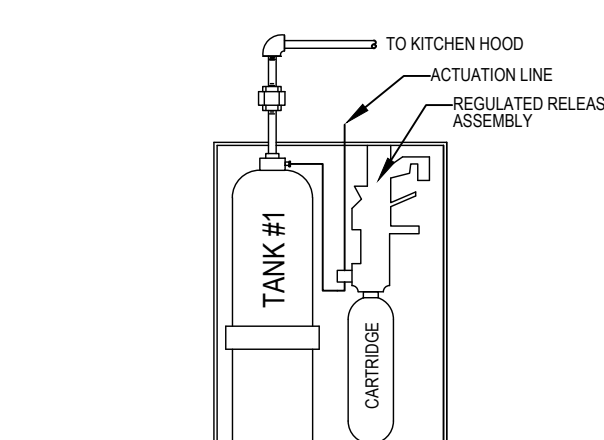
## NOZZLE PLACEMENT DETAILS



## GENERAL NOTES

- INSTALLATION SHALL BE PER THE MOST CURRENT EDITIONS OF STANDARD UL 300, NFPA 17A:2009, NFPA 96:2011, THE MANUFACTURER REQUIREMENTS, AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (A.H.J.).
- REMOTE PULL STATION SHALL BE MOUNTED AT 48" FROM FINISHED FLOOR SURFACE AND ON THE WAY TO AN EGRESS. PULL STATION CLEARLY STATES USE ON COVER PLATE AND TO WHICH HOOD IT SERVES. THE PULL STATION SHALL BE LOCATED NO CLOSER THAN 10 FT. AND NO FURTHER THAN 20 FT. FROM THE HOOD.
- ALL APPLIANCE NOZZLES, PLENUM NOZZLES, AND DUCT NOZZLES TO BE INSTALLED AS DESCRIBED IN THE MOST CURRENT MANUFACTURER TECHNICAL MANUAL.
- THE ACTUATION OF THE FIRE EXTINGUISHING SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL OR ELECTRICAL POWER SUPPLY TO THE COOKING EQUIPMENT. THE FUEL AND ELECTRICAL SUPPLY RESET SHALL BE MANUAL.
- A K-CLASS RATED FIRE EXTINGUISHER ACCESSIBLE WITHIN A 30 FT. UNOBSTRUCTED PATH FROM COOKING EQUIPMENT IS REQUIRED, INSTALLED WITHIN 30 FT. OF COMMERCIAL FOOD HEAT-PRODUCING EQUIPMENT.
- SYSTEM TO BE TESTED AND WITNESSED BY THE FIRE AUTHORITY HAVING JURISDICTION UPON COMPLETION AND PRIOR TO SYSTEM BEING PUT INTO SERVICE. TEST TO INCLUDE OPERATION OF REMOTE PULL STATION, LAST FUSIBLE LINK ON DETECTION LINE, AND FUEL SHUT-OFF DEVICE.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE RESTAURANT OWNER TO MAINTAIN AND SERVICE THE SYSTEM AS REQUIRED BY STATE AND LOCAL AUTHORITIES.
- WHEN THE FIRE EXTINGUISHING SYSTEM IS ACTIVATED, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.
- ALL PIPING SHALL BE 3/8" SCH. 40 BLACK STEEL PIPE.
- CONTROL HEAD INDICATES SYSTEM STATE AS "SET" OR "DISCHARGED".
- ALL DEEP-FAT FRYERS SHALL BE INSTALLED WITH AT LEAST A 16" SPACE BETWEEN THE FRYER SURFACE AND FLAMES FROM ADJACENT COOKING EQUIPMENT. WHERE A STEEL OR TEMPERED GLASS Baffle Plate IS INSTALLED AT A MINIMUM 8" HEIGHT BETWEEN THE FRYER AND SURFACE FLAMES OF ADJACENT APPLIANCE, THE "16" SPACE SHALL NOT APPLY.
- STAMPED SET OF APPROVED PLANS, AND APPLICABLE TECHNICAL MANUALS AND/OR CALCULATIONS SHALL BE ON SITE PRIOR TO TOURING ANY FIRE INSPECTIONS. FAILED INSPECTIONS/TEST MAY RESULT IN ADDITIONAL FEES.
- THE MINIMUM PIPING LENGTH OF 3/8" SCHEDULE 40 FROM THE TANK OUTLET TO ANY NOZZLE PROTECTING A RANGE, FRYER, OR WICK MUST BE 6 FT.
- SYSTEM SHALL BE TESTED AND SUPERVISED BY THE BUILDING FIRE ALARM AND ACTIVATE A GENERAL ALARM UPON DISCHARGE. INTERFERENCE WITH THE BUILDING FIRE ALARM SYSTEM UNDER SEPARATE PERMIT. (BY OTHERS) UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM, THE BUILDING FIRE WARNING SYSTEM SHALL ACTIVATE ANY HORN/STROBE DEVICES, STROBES, ANNUNCIATE AT THE PANEL AN ALARM CONDITION AND TRANSMIT TO THE CENTRAL STATION AN ALARM CONDITION, DUCT SHALL TRANSMIT IT AS A KITCHEN HOOD SYSTEM. TO BE TESTED AT FINAL.
- WRITTEN INSTRUCTIONS ON A DURABLE SIGN SHALL BE PROVIDED AND MOUNTED ABOVE THE MANUAL ACTUATING DEVICE IN BOTH ENGLISH AND SPANISH.
- THE OWNER SHALL BE PROVIDED WITH A COPY OF THE MANUFACTURER'S LISTED INSTALLATION AND MAINTENANCE MANUAL OR LISTED OWNERS MANUAL, NFPA 17A SECTION 6.4.4. AN "APPROVED SET" OF AS BUILT FIRE SUPPRESSION SYSTEM PLANS AND THE FIRE SUPPRESSION SYSTEM MAINTENANCE MANUAL SHALL BE RETAINED AT THE SITE ADJACENT TO THE MANUAL ACTUATOR.
- EXHAUST FANS AND DAMPERS SHALL NOT BE REQUIRED TO BE SHUT DOWN ON SYSTEM ACTUATION AS THE SYSTEMS HAVE BEEN TESTED UNDER BOTH ZERO- AND HIGH-VELOCITY FLOW CONDITIONS. HOWEVER, MAKEUP AIR SUPPLY SHALL BE SHUT DOWN.

## SYSTEM COMPONENT DETAILS



LAST SAVED BY: JAKE-LAJA  
LAST PRINTED: 2/17/2022 2:08:09 PM  
FILE PATH: C:\Users\jake\Documents - Johnson Controls\Round\_1\_Puyallup\KH001.dwg  
30 x 42 inch ES Size

**City of Puyallup Fire REVIEWED FOR COMPLIANCE**  
D Drake  
05/18/2022  
2:41:34 PM

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

**ROUND 1 PUYALLUP**  
ROUND 1 PUYALLUP  
3500 SOUTH MERIDIAN, UNIT 900  
PUYALLUP, WA 98373

ISSUE NO.	DATE	CHK	DESCRIPTION

DRAWN BY: J KAPLA  
CHECKED BY: S RAAB  
ISSUE DATE: 2/17/22  
JOB #: 458  
PROJECT #: JOHNSON CONTROLS © 2022  
SYSTEM: KITCHEN HOOD SYSTEM  
SHEET: COVER SHEET  
KH-001

FILE PATH: C:\Users\jkapla\OneDrive - Johnson Controls\Round 1 Puyallup\KH-002.dwg

LAST SAVED BY: JAKP-LJA

LAST PRINTED: 2/17/2022 2:20:13 PM

30" x 42" - ARCH E Size

City of Puyallup  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**ROUND 1 PUYALLUP**  
ROUND 1 PUYALLUP  
3500 SOUTH MERIDIAN, UNIT 900  
PUYALLUP, WA 98373

ISSUE NO.	MARK	DATE	CAD	CHK	DESCRIPTION

DRAWN BY:	J.KAPLA
CHECKED BY:	S.RAAB
ISSUE DATE:	2/17/22
JOB #:	458
PROJECT #:	JOHNSON CONTROLS © 2022
SYSTEM:	KITCHEN HOOD SYSTEM
SHEET:	EGRESS PLAN
	<b>KH-002</b>

