

SCOPE OF WORK

- TENANT IMPROVEMENT TO ADD FIRE SPRINKLER COVERAGE WITHIN "KARDEX VERTICAL LIFT MODULE" TYPE AUTOMATED STORAGE AND RETRIEVAL MACHINES.

DESIGN CRITERIA:

- VERTICALLY ENCLOSED ASRS STORAGE UNIT WITH MAXIMUM CEILING HEIGHT OF 35 FT
- DESIGN STANDARD IS FM GLOBAL DATA SHEET 8-34, SECTION 2.4.3.3.2 USING RELIABLE'S JL-17 STORAGE SPRINKLER WITH A MINIMUM FLOW PRESSURE OF 52 PSI IN ACCORDANCE WITH TABLE 47.
- HYDRAULIC DESIGN ACCOUNTS FOR ALL SPRINKLERS WITHIN THE VERTICALLY ENCLOSED ASRS UNIT OPERATING AT THE MINIMUM DESIGN PRESSURE.

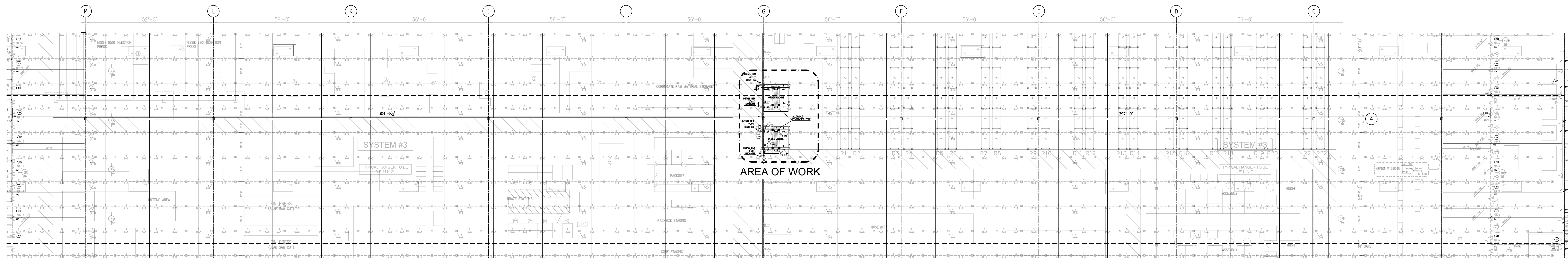
City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

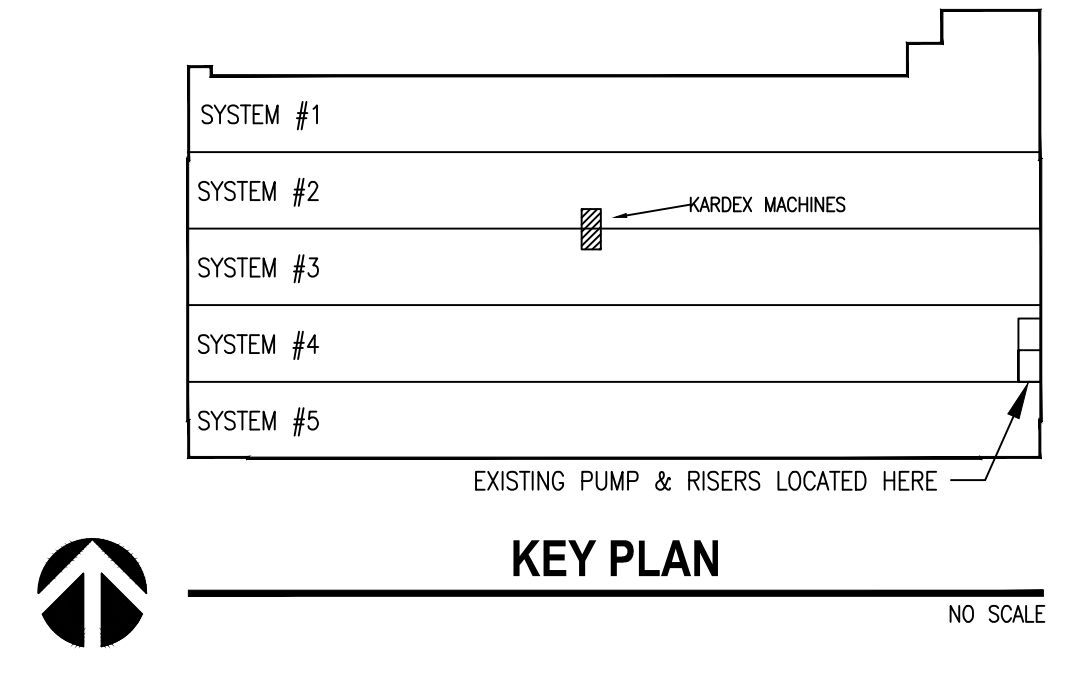
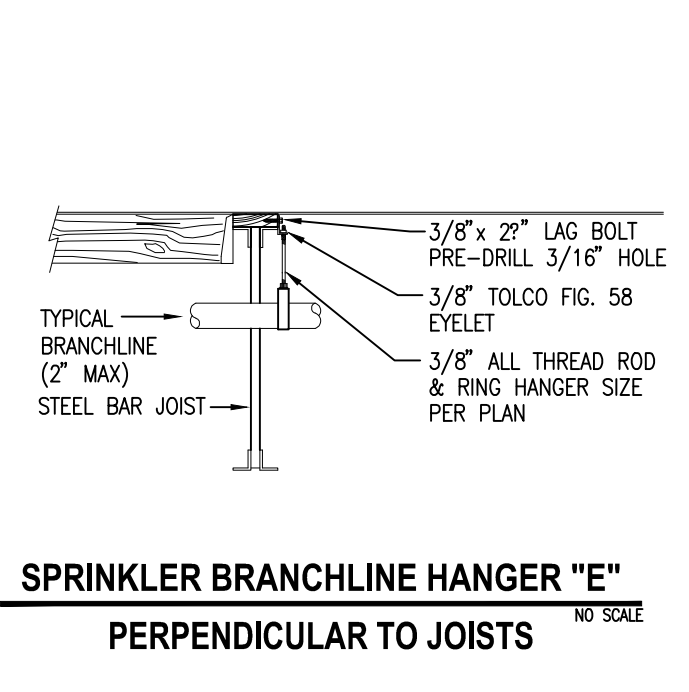
City of Puyallup
Fire REVIEWED FOR COMPLIANCE
DDrake
11/01/2023
1:57:42 PM

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

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.



SYSTEM #3 HYDRAULIC REFERENCE PLAN
SCALE: 1/16" = 1'-0"
0' 4' 8' 16' 32'



<p>STATE CERTIFICATION</p> <p>CERTIFICATE OF COMPETENCY FIRE PROTECTION SPRINKLER SYSTEMS</p> <p>Pietro Demonte 5541-0910-C Level 3 Patriot Fire Protection, Inc. PATRIFP099CF 10/25/2023</p>		<p>FITTING LEGEND</p> <p>P PIPE-D-LEET SN GROOVED SHAPED NIPPLE TSN THREADED SHAPED NIPPLE ADN ADJUSTABLE DROP NIPPLE FLG FLANGE MC REDUCING COUPLING S SPRINKLER 1/2" CENTER LINE OF PIPE IN MOLES E 2-WAY EARTHQUAKE BRACE F 4-WAY EARTHQUAKE BRACE</p>		<p>HANGER LEGEND</p> <p>A "U" HOOK B COACH SCREW ROD D BM CLAMP W/ "STRAP" E EYELET F FLUSH SHELL G CEILING FLANGE H SIDE BEAM BRACKET K SHORT CLIP M ALL THREAD ROD N TOGGLE NUT P POWDER DRIVEN STUD R SAMMY XPRESS T PIPE SPIKE U TRAPEZE HANGER V WALL BRACKET HANGER</p>		<p>QUALITY CONTROL BY: _____ DATE: _____ APPROVED FOR FABRICATION BY: _____ DATE: _____</p> <p>GENERAL NOTES</p> <ol style="list-style-type: none"> ALL MATERIAL AND EQUIPMENT TO BE NEW AND UL LISTED OR FM APPROVED. PIPE DIMENSIONS ARE GIVEN TO CENTER UNLESS OTHERWISE SHOWN (I-X) MECH ARE END TO END. EARTHQUAKE BRACING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA HANDBOOK NO. 13, 2016 EDITION. PIPE DIMENSIONS ARE GIVEN TO CENTER UNLESS OTHERWISE SHOWN (I-X) MECH ARE END TO END. JOINING OF PIPE AND FITTINGS, THREADED & WELDED, SHALL BE IN ACCORDANCE WITH NFPA HANDBOOK NO. 13, 2016 EDITION. OWNER TO PROVIDE ABSOLUTE HEAD IN AREA PROTECTED BY A WET PIPE SPRINKLER SYSTEM TO PREVENT WATER IN PIPES FROM FREEZING. ALL WIRING OF ELECTRICAL DEVICES (IF REQUIRED) TO BE PROVIDED BY OTHERS. PAINTING OF PIPE & EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS. FURNISHING OF PIPE & EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS. 																																																													
<p>SPRINKLER HEAD LEGEND</p> <table border="1"> <thead> <tr> <th>SYM</th> <th>MANUF.</th> <th>MODEL</th> <th>SN</th> <th>TYPE</th> <th>HEAD</th> <th>THREAD</th> <th>CS</th> <th>HEAD</th> <th>ESD/OUT</th> <th>TEMP</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td>■</td> <td>RELIABLE</td> <td>JL-17</td> <td>041914</td> <td>ESR PENDENT</td> <td>J1</td> <td>3/4"</td> <td>16.8K</td> <td>BRONZE</td> <td>N/A</td> <td>165°</td> <td>8</td> </tr> <tr> <td colspan="12">TOTAL 8</td> </tr> </tbody> </table>		SYM	MANUF.	MODEL	SN	TYPE	HEAD	THREAD	CS	HEAD	ESD/OUT	TEMP	QTY	■	RELIABLE	JL-17	041914	ESR PENDENT	J1	3/4"	16.8K	BRONZE	N/A	165°	8	TOTAL 8												<p>APPROVAL REQUIRED</p> <p>CITY OF PUYALLUP</p>		<p>TEMP RATING</p> <p>155° 212° 288° 350° 500°</p>		<p>SPRINKLER LEGEND</p> <table border="1"> <thead> <tr> <th>TEMP RATING</th> <th>ORIFICE SIZES AND TYPE</th> <th>UPRISER</th> <th>SIZE</th> </tr> </thead> <tbody> <tr> <td>155°</td> <td>1/2"</td> <td>1"</td> <td>1/2"</td> </tr> <tr> <td>212°</td> <td>1/2"</td> <td>1"</td> <td>1/2"</td> </tr> <tr> <td>288°</td> <td>1/2"</td> <td>1"</td> <td>1/2"</td> </tr> <tr> <td>350°</td> <td>1/2"</td> <td>1"</td> <td>1/2"</td> </tr> <tr> <td>500°</td> <td>1/2"</td> <td>1"</td> <td>1/2"</td> </tr> </tbody> </table>		TEMP RATING	ORIFICE SIZES AND TYPE	UPRISER	SIZE	155°	1/2"	1"	1/2"	212°	1/2"	1"	1/2"	288°	1/2"	1"	1/2"	350°	1/2"	1"	1/2"	500°	1/2"	1"	1/2"
SYM	MANUF.	MODEL	SN	TYPE	HEAD	THREAD	CS	HEAD	ESD/OUT	TEMP	QTY																																																								
■	RELIABLE	JL-17	041914	ESR PENDENT	J1	3/4"	16.8K	BRONZE	N/A	165°	8																																																								
TOTAL 8																																																																			
TEMP RATING	ORIFICE SIZES AND TYPE	UPRISER	SIZE																																																																
155°	1/2"	1"	1/2"																																																																
212°	1/2"	1"	1/2"																																																																
288°	1/2"	1"	1/2"																																																																
350°	1/2"	1"	1/2"																																																																
500°	1/2"	1"	1/2"																																																																
<p>DESIGN CRITERIA</p> <p>SEE NOTES THIS SHEET</p> <p>PIPE NOTES</p> <ol style="list-style-type: none"> WELDED/GROOVED MAIN PIPING TO BE SCH. 10 BLACK PIPE WELDED/GROOVED BRANCH LINE PIPING TO BE SCH. 10 BLACK PIPE THREADED PIPING TO BE SCH. 40 BLACK PIPE. 		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO	DATE	BY	DESCRIPTION					<p>CONTRACT WITH:</p> <p>POE CONSTRUCTION 1519 W VALLEY HWY N, SUITE 103 AUBURN, WA 98001 CLAY JOHNSON: 253-833-2400</p> <p>PROJECT NAME:</p> <p>RED DOT TI - KARDEX MACHINES</p> <p>2504 EAST MAIN PUYALLUP, WA 98372</p>																																																							
NO	DATE	BY	DESCRIPTION																																																																
<p>DESIGNER DEREK STRICKLAND DATE 10-25-2023 JOB NO. 11-2404</p>		<p>SHEET 1 OF 1 FP-1</p>		<p>PATRIOT FIRE PROTECTION, INC. 27107 70TH AVENUE EAST TACOMA, WA 98424 TEL: (253) 926-2290 FAX: (253) 922-6150 WWW.PATRIOTFIRE.COM Derek.Strickland@PatriotFire.com FIRE SPRINKLERS SAVE LIVES!</p>																																																															