GENERAL NOTES:

- 1. MATERIALS AND INSTALLATION SHALL COMPLY WITH APPLICABLE NFPA CODES (NFPA 13 2013 EDITION), STATE BUILDING CODE, LOCAL AUTHORITY HAVING JURISDICTION, AND INSURANCE UNDERWRITER'S REQUIREMENTS.
- 2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UL LISTED FOR THE INTENDED USE AND SHALL BE INSTALLED IN FULL COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3. ALL NEW SPRINKLER PIPE 1" AND SMALLER IS SCHEDULE-40 BLACK STEEL WITH THREADED ENDS AND FITTINGS. ALL NEW SPRINKLER PIPE 11/4" AND LARGER IS SCHEDULE-10 BLACK STEEL WITH GROOVED ENDS AND FITTINGS.
- 4. SPRINKLER HEAD SPACING IS BASED ON THE NFPA STANDARDS FOR ORDINARY HAZARD OCCUPANCIES ALLOWING A MAXIMUM HEAD SPACING OF 130 S.F. PER HEAD.
- 5. LOCATIONS OF PIPING AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD.
- 6. SCOPE OF WORK IS TO INSTALL A NEW ONE RISER SPRINKLER SYSTEM FOR NEW SHELL BUILDING.
- 7. THE WATER TEST INFORMATION HAS BEEN PROVIDED BY J&D SPRINKLER DATED 2/6/2024 INDICATES THE FOLLOWING...

52 PSI STATIC: RESIDUAL: 36 PSI FLOW: 840 GPM

SYMBOLS:



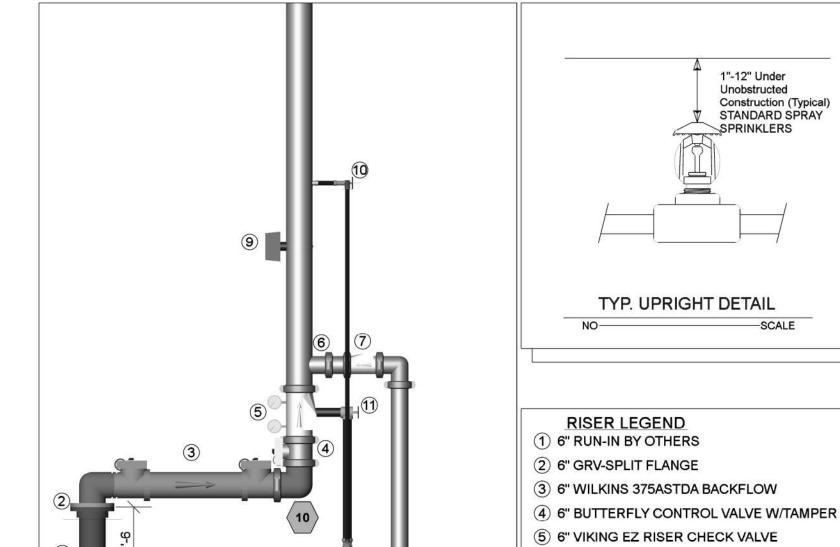
DENOTES A HYDRAULIC CALCULATION POINT OF REFERENCE DENOTES A HYDRAULIC REMOTE AREA

DENOTES NEW SPRINKLER PIPE

DENOTES UNDERGROUND PIPE

DENOTES PIPE CENTERLINE ELEVATION AFF

DENOTES PIPE CENTERLINE BELOW TOP OF STEEL



RISER DETAIL

0½" = 1 Foot

(6) 4" GRV OUTLET

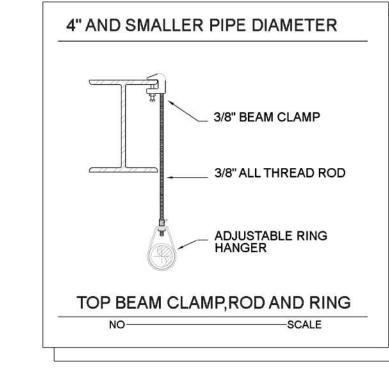
(8) OUT TO YARD FDC

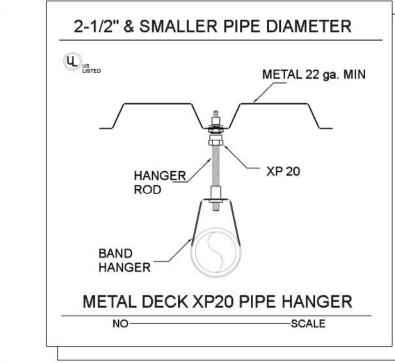
(9) FLOW SWITCH

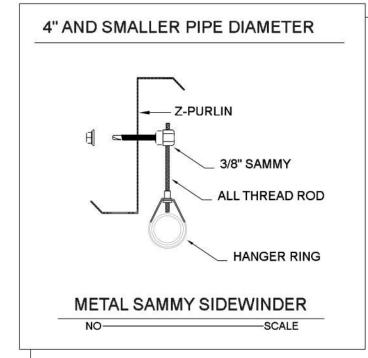
11) 2" MAIN DRAIN

(7) 4" SWING CHECK VALVE

10 TEST & DRAIN ASSMBLY







Sprinkler Design Data

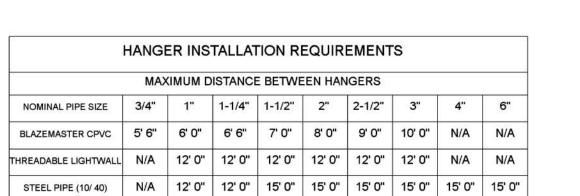
Project Name: HARBOR FREIGHT TOOL	System:WET Sys. Sq. Ft.: 15,632		
Project Street Address: 46 SHRIJI LN, El			
Suite: -	Floor#:-	Ceiling Height: VARIES	
Designed By: J&D SPRINKLER CO	Phone: 919-553-2356	Total Bldg. Hgt.:22'-0	
Occupancy: MERCHANTILE	Hazard: ORDINARY GRP II		

Design Summary

	:=				
Design Method	CALCULATED	a.	.=	a. 	.
Design Area #	1	-	-	5=	6 1 10
Location	-	-	-		-
Type of System	WET	P=)	-	9₩	: = 1
Hazard Class	ORDINARY GRP II		<u>.</u>	% -	=
Criteria From	NFPA13 2013 ED	0 =)	0 = 7	90 =	: - :
Design Area	1500 S.F.	-	-	0-	: - :
Sprinkler Spacing	130 S.F. MAX		-	-	
Density	.20		-	9■:	A = 8
K-factor	5.6	∂- 1	o -	s -	: - :
Hose Allowance	250 GPM		-	(-	-
# Design Sprinklers	13		-	8 -	.=:
Special Application Spk.	-	-	-	•	₩.
Requirement @ BASE					
G.P.M. Req'd	329.08	2 =	-	×=	3 = 3
P.S.I. Req'd	30.630	-	-	-	-
Requirement @ TEST					
GPM Required	579.08	12	_	S(#)	-
PSI Required	41.467	-	-	-	-
Safety factor @ Test	2.493	9=7	-	8 =	(=)
Dry Sys. Volume (gal)	-	-		12	-

Water Supply	Information
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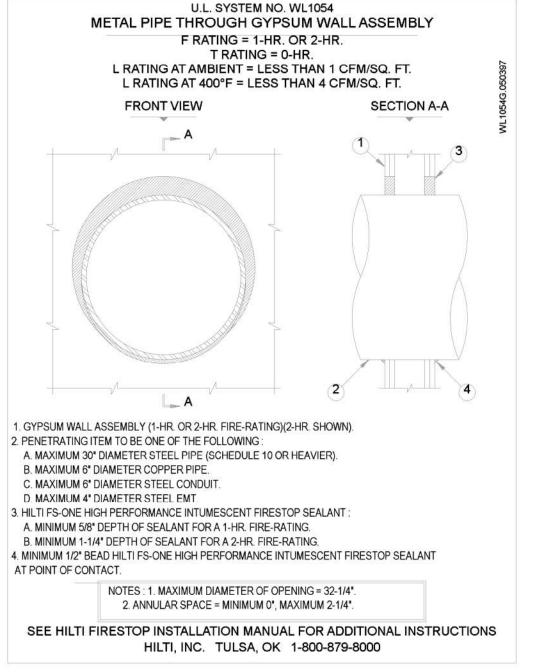
Tested by	J&D SPRINKLER CO	Date/Time	2/6/2024 @ 1:45PM	Pressure Hydrant		
Hydrant Elevation	-	Flow Hydrant # 1	·-	Flow Hydrant #2	-	
Static (PSI)	52	Residiual (PSI)	36	Flow (gpm)	840	
	Copy	of Water Test Data Inc	luded with Calculation is a	required		



100 PSI STATIC PRESSURE ON SYSTEM REQUIRES UP-LIFT RESTRAINT WITHIN 12 INCHES HORIZONTALLY OF HEAD FOR ARM-OVERS AND END OF BRANCH LINE

THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER,

TRA	APEZE I	NSTAL	LATION	I REQI	JIREME	ENTS		
SPAN OF TRAPEZE (Schedule 10)	NOMINAL PIPE SIZE SUPPORTED							
	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
1 FT. 6 IN.	1"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"
2 FT. 0 IN.	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"
2 FT. 6 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"
3 FT. 0 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"	2"
4 FT. 0 IN.	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2"	2-1/2"
5 FT. 0 IN.	2"	2"	2"	2"	2"	2"	2-1/2"	2-1/2"
6 FT. 0 IN.	2"	2"	2"	2"	2"	2-1/2"	2-1/2"	3"
7 FT. 0 IN.	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"
8 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"
9 FT. O IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	4"
10 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	4"





DANA GRAHAM

NC # 16269FS CERT # 71075

REVISION: NO. DATE

4/24/2024

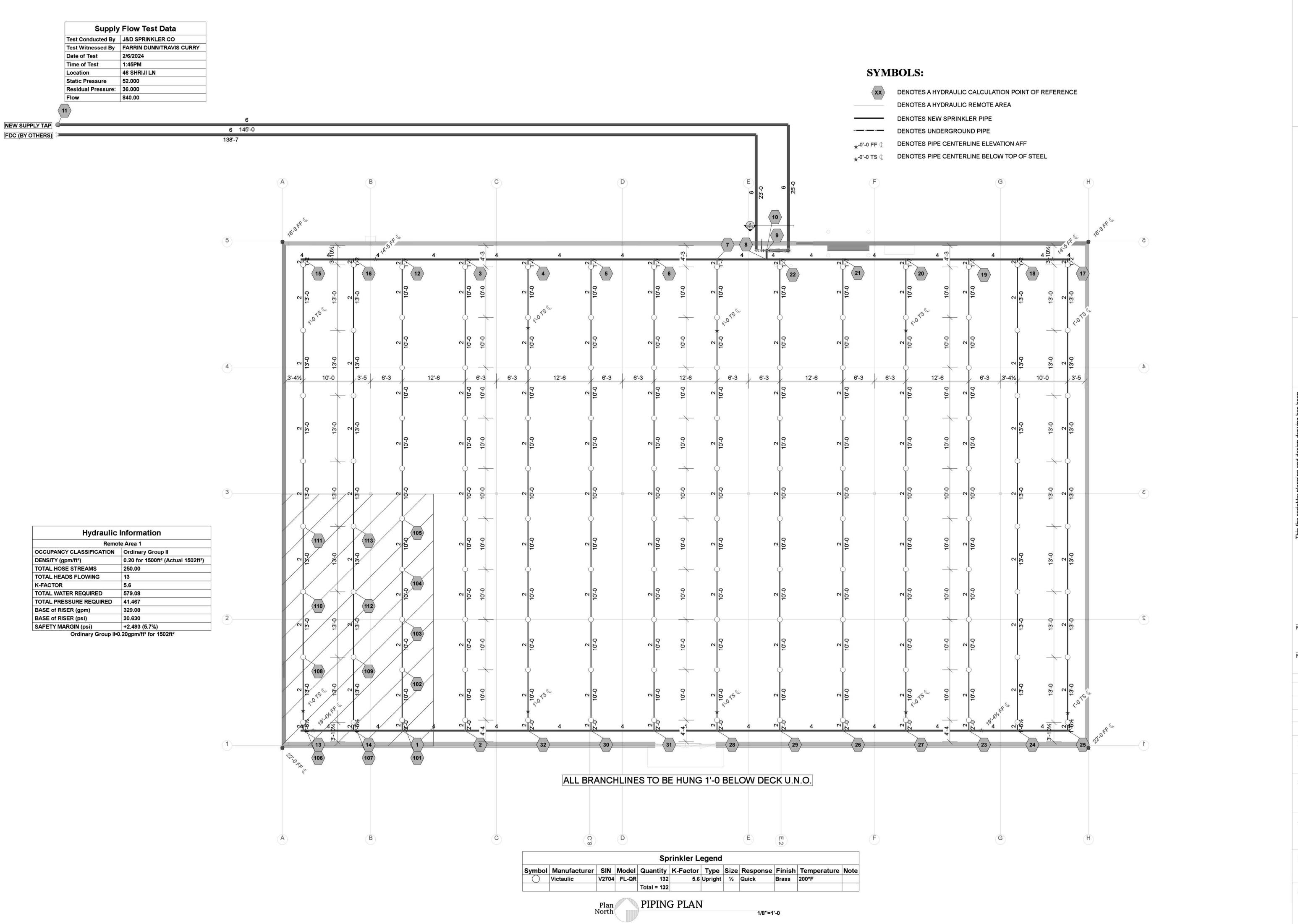
1/8"=1'-0"

____ Job Number:

F24084 Drawn By:

MWL

Sheet Number FP-1



DANA GRAHAM NC # 16269FS CERT # 71075 NICET LEVEL III JASON CRAHAM

NC # 15269FS CERT # 121842 NICET LEVEL III

REVISION: NO. DATE

4/24/2024

1/8"=1'-0" ____

Job Number: F24084

Drawn By: MWL

Sheet Number

FP-2