

FIRE PROTECTION GENERAL NOTES

1. **SCOPE OF WORK**
 - A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR REQUIRED TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
 - B. THE WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH NFPA 13 (LATEST EDITION), ALL CODES AND OTHER NFPA REGULATIONS GOVERNING WORK OF THIS NATURE.
 - C. THE CONTRACTOR SHALL BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
 - D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.
 - E. FLOW TEST DATA PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR PERFORMING FLOW TEST AND CONFIRMING HYDRAULICS PRIOR TO WORK.
2. **PERMITS**
 - A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.
 - B. THE CONTRACTOR SHALL BE A LICENSED FIRE SPRINKLER CONTRACTOR.
3. **SHOP DRAWINGS**
 - A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT/ENGINEER AND STATE FIRE MARSHALL FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT SIX SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
4. **SPRINKLER PIPING**
 - A. PIPE SHALL BE MADE TO ANY OF THE SPECIFICATIONS LISTED. WELDING WILL NOT BE PERMITTED IF THERE ARE ANY SPRINKLERS CONNECTED THERETO.
 - ASTM A53
 - ASTM A120
 - ASTM A135
 - B. PIPING MATERIAL MAY BE SCHEDULE 10 (THINWALL) PROVIDED JOINTS ARE MADE BY ROLL-GROOVE COUPLING. THREADING WILL NOT BE PERMITTED.
 - C. PIPING MATERIAL MAY BE SCHEDULE 40 WITH FLANGED, ROLL-GROOVE COUPLINGS, OR THREADED JOINTS.
5. **PIPE SUPPORTS**
 - A. ALL HANGERS MUST BE AN APPROVED TYPE BY NFPA 13. NO SPRINKLER PIPING IS TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICES.
 - B. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. VERTICAL RISERS SHALL BE SUPPORTED AT EACH FLOOR LEVEL WITH STEEL PIPE CLAMPS. THE USE OF WIRE OR STRAP METAL HANGER TO SUPPORT PIPES WILL NOT BE PERMITTED. HANGING PIPES FROM OTHER PIPES WILL NOT BE PERMITTED. PIPING SHALL BE CAREFULLY COORDINATED BEFORE INSTALLATION WITH OTHER SYSTEMS AND EQUIPMENT IN CHASES AND OTHER CONGESTED AREAS.
 - C. SEISMIC PERFORMANCE: FIRE-SUPPRESSION PIPING BRACING SHALL BE IN ACCORDANCE TO NFPA 13.
6. **WORKING PLANS**
 - A. THE DRAWINGS INCLUDED AS PART OF THIS SET OF CONSTRUCTION DOCUMENTS ARE TO PROVIDE ENGINEERING DESIGN INTENT. THE CONTRACTOR SHALL PREPARE WORKING DRAWINGS (AS DEFINED BY NFPA 13) WHICH SHALL INCLUDE HYDRAULIC CALCULATIONS AND WILL BE SUBMITTED TO THE ENGINEER AND FIRE MARSHALL FOR APPROVAL.
7. **TESTS**
 - A. ACCEPTANCE AND HYDROSTATIC TESTS TO BE PERFORMED IN ACCORDANCE WITH CHAPTER 10 OF NFPA 13.
8. **MISCELLANEOUS**
 - A. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
 - B. THE SPRINKLER PLANS ARE INTENDED TO BE DIAGRAMATIC. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION.
9. **GUARANTEE**
 - A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE SPRINKLER CONTRACTOR'S EXPENSE.

HAZARD CLASSIFICATIONS

- A. STORAGE: ORDINARY HAZARD, GROUP 1
- B. ALL AREAS: LIGHT HAZARD

FLOW TEST DATA

DATA PROVIDED BY: TAWC
 DATE: 6/13/2017
 TEST PERFORMED BY: STEED AND STANLEY
 STATIC PRESSURE: 86 PSI
 RESIDUAL PRESSURE: 84 PSI
 FLOW: 919 GPM

REQUIRED CONDITIONS:

DESIGN AREA #1: 78 PSI @ 238 GPM (W/ 100 GPM HOSE ALLOWANCE)
 HAZARD: LIGHT (1500 SQ. FT. BEFORE AREA REDUCTION FOR 12' CEILING)
 DESIGN AREA #2: 78 PSI @ 427 GPM (W/ 100 GPM HOSE ALLOWANCE)
 HAZARD: LIGHT (1950 SQ. FT. WITH 12' CEILING AREA INCREASE PENALTY)

SAFETY FACTOR: %
 ADEQUATE WATER SERVICE AVAILABLE: YES

FIRE PROTECTION LEGEND

SYMBOLS

- UPRIGHT SPRINKLER
- PENDENT SPRINKLER

ABBREVIATIONS

AFC - ABOVE FINISHED CEILING	FACP - FIRE ALARM CONTROL PANEL	T - TEE-FLOW TURNED 90 DEGREES
AFF - ABOVE FINISHED FLOOR	FBO - FURNISHED BY OTHERS	TS - TAMPER SWITCH
AFG - ABOVE FINISHED GRADE	FP - FIRE PUMP	UG - UNDERGROUND
AHJ - AUTHORITY HAVING JURISDICTION	FS - FLOW SWITCH	UNO - UNLESS NOTED OTHERWISE
ALV - ALARM VALVE	GC - GENERAL CONTRACTOR	WCV - BUTTERFLY (wafer) CHECK VALVE
BFG - BELOW FINISH GRADE	GV - GATE VALVE	
BFP - BACK FLOW PREVENTER	IAW - IN ACCORDANCE WITH	
BMS - BUILDING MANAGEMENT SYSTEM	JP - JOCKEY PUMP	
BV - BUTTERFLY (wafer) CHECK VALVE	LLE - LONG TURN ELBOW	
C - CROSS	NIC - NOT IN CONTRACT	
CV - SWING CHECK VALVE	NTS - NOT TO SCALE	
DeLV - DELUGE VALVE	OC - ON CENTER	
DPV - DRY PIPE VALVE	OSRY - OUTSIDE SCREW & YIELDING WRENCH	
(E) - EXISTING	PA - PUBLIC ADDRESS	
E - 90 DEGREE ELBOW	PAV - PREACTION VALVE	
EE - 45 DEGREE ELBOW	PV - POST INDICATING VALVE	
FA - FIRE ALARM		



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CONSTRUCTION DOCUMENTS

Revisions

No.	Issue	Date

Sheet Information

Date	11.26.2018
Job No.	6774.3 / 6774.4

Title

**FIRE PROTECTION
 COVER SHEET**

Sheet

FP001

Fire Protection Sheet Index		ISSUANCE
Sheet Number	Sheet Name	100% CD
FP001	COVER SHEET	X
FP101	SPRINKLER PLAN - GYM ADDITION	X
FP102	SPRINKLER PLAN - SPIRIT SHOP	X

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