

City of Puyallup

Fire

REVIEWED FOR COMPLIANCE

DDrake
07/09/2025
7:46:53 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.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

Planning

Engineering

Public Works

Fire

Traffic

SCOPE OF WORK

NORTHWEST FIRE SYSTEMS (NWFS) TO MODIFY EXISTING WET PIPE AUTOMATIC SPRINKLER SYSTEM TO ACCOMMODATE FOR NEW WALLS AND CEILING

NWFS WILL START WORK AT A THE OVER HEAD SYSTEM.

ALL AREAS PROTECTED BY A WET SYSTEM MUST BE MAINTAINED BY OTHERS AT A MINIMUM 40°F TO PREVENT FREEZING.

EXCLUSIONS

PAINTING OR LABELING OF PIPE AND/OR EQUIPMENT

ELECTRICAL WIRING OF ANY KIND INCLUDING BUT NOT LIMITED TO: BACKFILL, WATERFLOW SWITCH, ELECTRIC BELL, AND TAMPER SWITCHES

CENTRAL STATION MONITORING EQUIPMENT, WIRING AND SERVICES

ALL UNDERGROUND WORK INCLUDING BUT NOT LIMITED TO: BACKFILL, SELECT FILL, BREAKING PATCHING, SAW CUTTING, LAWN REPAIR, LANDSCAPING, TREE REMOVAL, STERILIZATION, DEVELOPMENT FEES AND CITY CONNECTION.

DESIGN CRITERIA

PER NFPA 13(2022) AND CITY OF PUYALLUP

EXISTING SYSTEM DESIGN CRITERIA (WET)

MERCANTILE
ORDINARY HAZARD II
DESIGN DENSITY: 0.165 gpm/ft² OVER 2650ft²

NEW T.I. DESIGN CRITERIA

MERCANTILE
ORDINARY HAZARD II
DESIGN DENSITY: 0.20 gpm/ft² OVER 1500ft²

CONSTRUCTION TYPE 2B OPEN STEEL BAR JOIST
NONCOMBUSTIBLE UNOBSTRUCTED CONSTRUCTION
OCCUPANCY GROUP: GROUP M MERCANTILE
19,151 SF

WATER FLOW INFORMATION	
FRUITLAND MUTUAL WATER COMPANY	
STATIC: 47'	RESIDUAL: 46'
FLOW: 716 GPM	
BY: TED HARDMAN (FRUITLAND WATER)	
DATE: 06-20-25	

VICINITY MAP

SYMBOLS

SPRINKLER PLAN SYMBOLS

	SWAY BRACING
	PIPE HANGER
	BRANCHLINE RESTRAINT
	FLEXIBLE COUPLING
	RIGID COUPLING
	HYDRAULIC NODE
	LINE PIPE DESIGNATION LABEL
	MAIN PIPE DESIGNATION LABEL
	FLOW SWITCH (FS)
	CHECK VALVE
	BUTTERFLY VALVE
	BALL VALVE
	HOSE VALVE
	GROOVED ELL (LOOKING SIDeways)
	GROOVED ELL (LOOKING DOWN)
	GROOVED 45° ELL VERTICAL OFFSET
	GROOVED 45° ELL LATERAL OFFSET
	THREADED PIPE VERTICAL OFFSET
	EXISTING SPRINKLER PIPING
	NEW SPRINKLER PIPING
	CENTERLINE OF PIPE TO BOTTOM OF DECK
	CENTERLINE OF PIPE TO BOTTOM OF BEAM OR JOIST
	CENTERLINE OF PIPE ABOVE FINISHED FLOOR
	RELOCATE SPRINKLER

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FP1.0 DEMO FIRE SPRINKLER PLAN
FP2.0 T.I. FIRE SPRINKLER PLAN

ABBREVIATIONS

ATR	ALL-THREAD ROD	SN	GROOVED SHAPED NIPPLE
C	CENTERLINE	SS	STAINLESS STEEL
CTS	CUT TO SUIT	TYP	TYPICAL
FDC	FIRE DEPT. CONNECTION	UNO	UNLESS NOTED OTHERWISE
GAL	GALVANIZED	RN	RISER NIPPLE
IFOW	INSIDE FACE OF WALL	DR	DROP
MT	MECHANICAL TEE	DN	PIPE DOWN
O.C.	ON CENTER	UP	PIPE UP
POL	PIPE-O-LET	THR	THREAD
RC	REDUCING COUPLING		

NORTHWEST FIRE SYSTEMS

22645 83rd ave. S., Bldg D *Kent, WA 98032
Ph: 206.772.7502 * Fax: 206.772.7504
www.nwfiresystems.com LIC # NORTHFS928CR

NCET Stamp

Approvals Required

PUYALLUP
OWNER / ARCHITECT

Revisions

Contract With:

CENSOR COMMERCIAL

PO BOX 692525 NE TWIN KNOLLS
AVE SUITE 3
BEND, OR
SUPER: RYAN THURNER
Phone: 808-785-5700

Contract Name:

BARNES AND NOBLE

3500 S. MERIDIAN ST UNIT
800
PUYALLUP, WA 98373

Drawing Title

SITE PLAN & GENERAL NOTES

Key Plan

Date: 06.25.2025

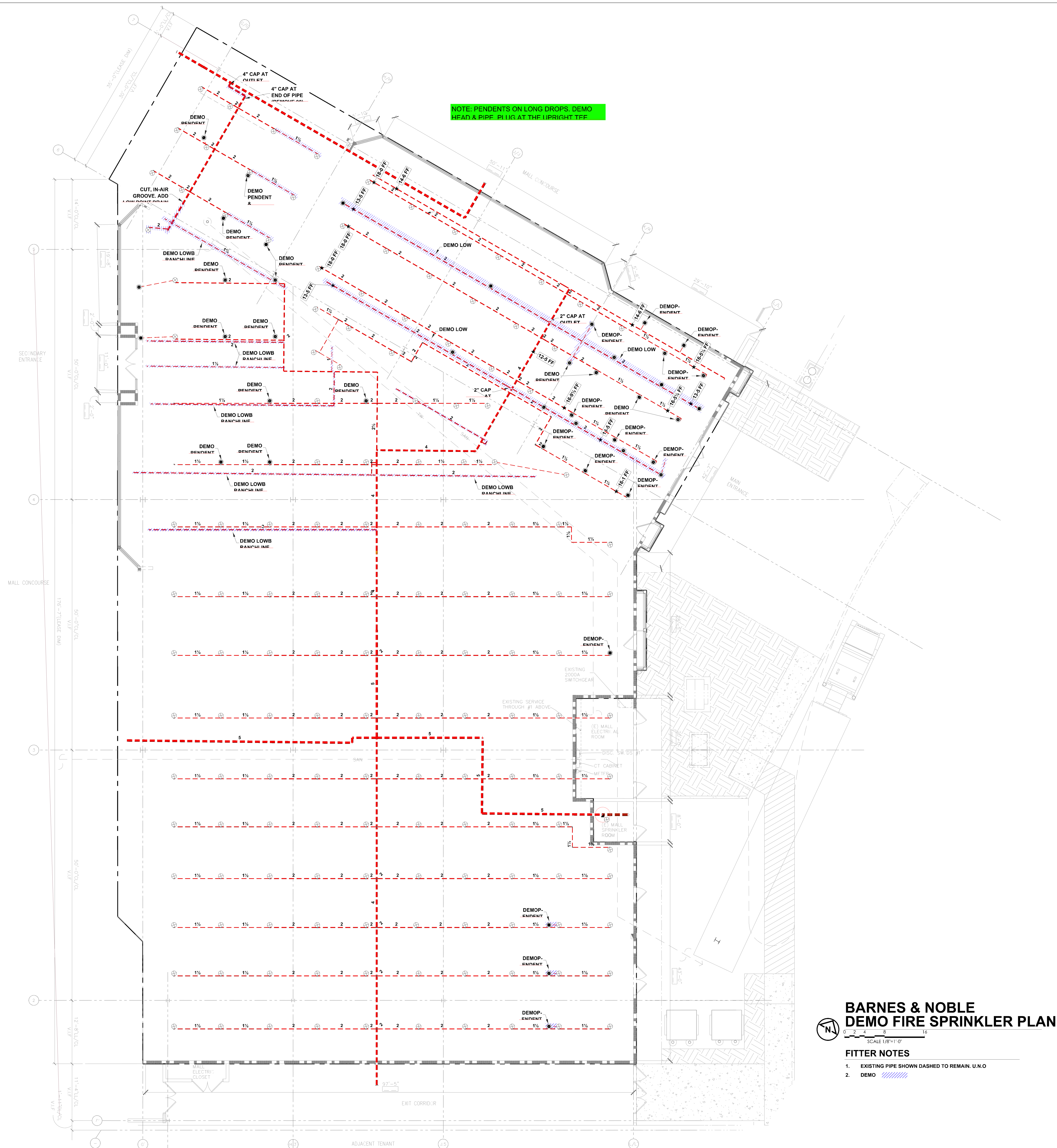
Job Number: 05532C

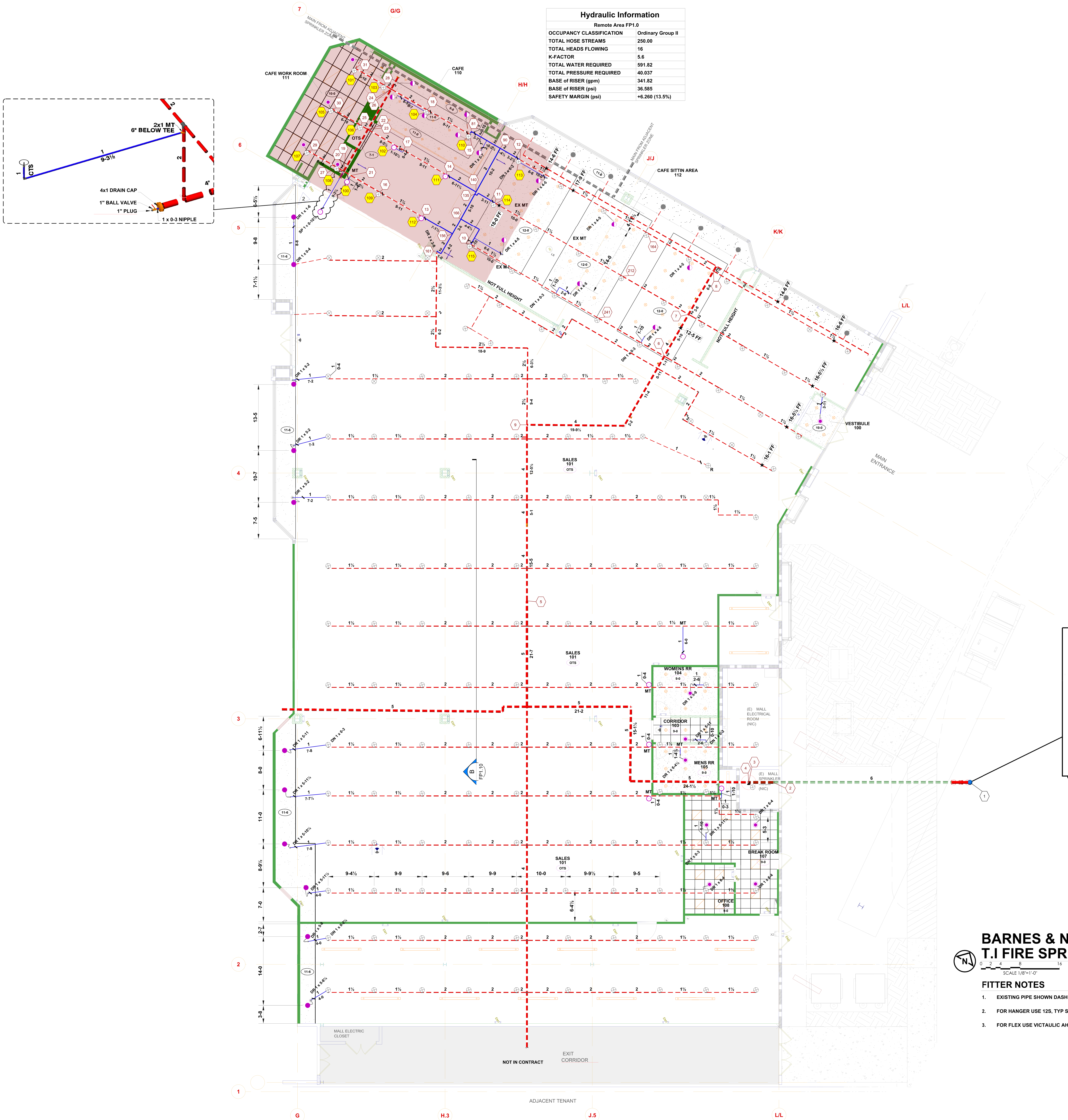
Designer: BRYAN FARMER

Building Permit:

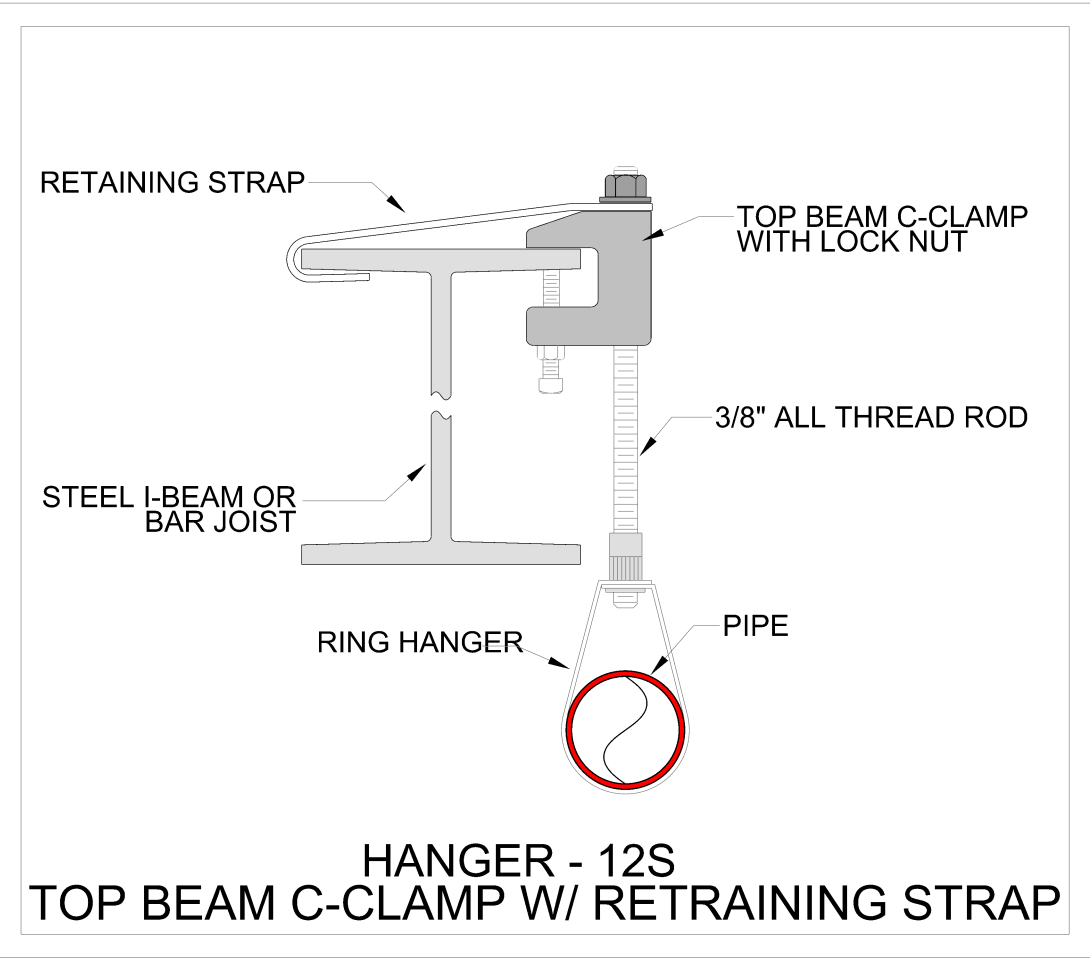
Drawing No.

FP 0.1



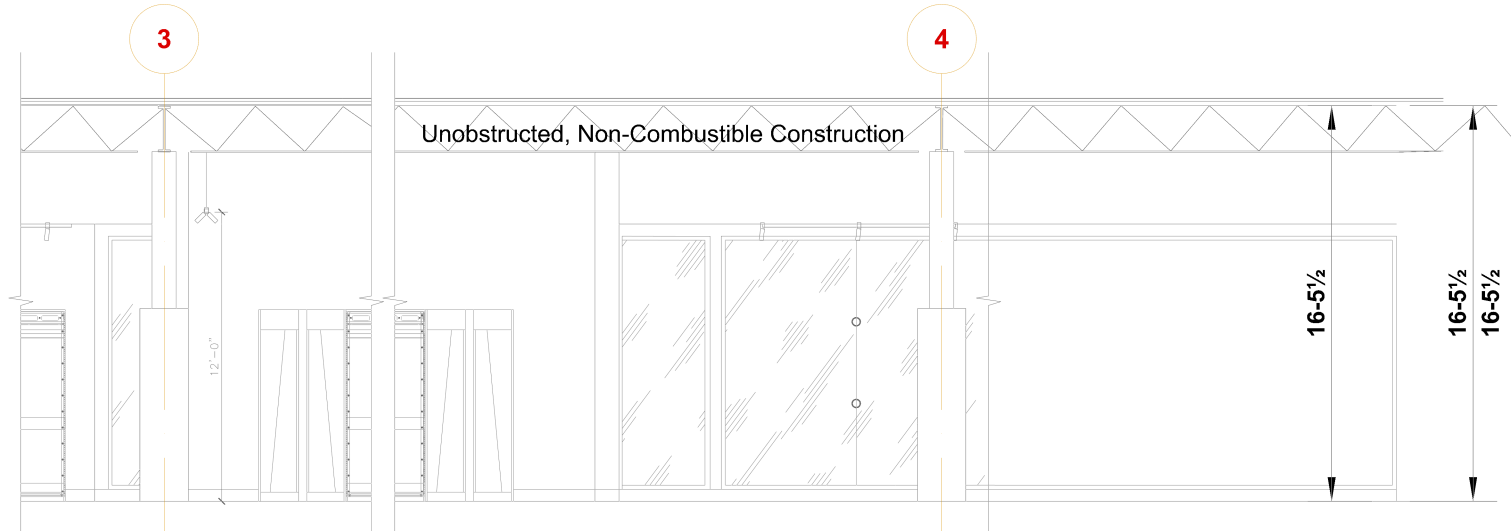


Hydraulic Information	
Remote Area FP1.0	
OCCUPANCY CLASSIFICATION	Ordinary Group II
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	16
K-FACTOR	5.6
TOTAL WATER REQUIRED	591.82
TOTAL PRESSURE REQUIRED	40.037
BASE OF RISER (gpm)	341.82
BASE OF RISER (psi)	36.585
SAFETY MARGIN (psi)	+6.260 (13.5%)



EXISTING RISER DETAIL
SCALE: 1/2"=1'-0"

EXISTING RISER DETAIL



SECTION
SCALE: 1/8"=1'-0"


BARNES & NOBLE T.I FIRE SPRINKLER PLAN



FITTER NOTES

- EXISTING PIPE SHOWN DASHED TO REMAIN. U.N.O
- FOR HANGER USE 12S, TYP SEE DETAIL THIS SHEET
- FOR FLEX USE VICTAULIC AH-2 48"X1/2", USING AN AB-2 BRACKET

Sprinkler Legend - Existing Heads									
SYM	MAN	SIN	K	TYPE	THD	Response	FIN	TEMP	
⊗	Tyco		5.6	EX SSU	1/2	Standard	Brass	155°F	
●	Tyco	TY3551	5.6	EX CONC	1/2	Standard	Brass	155°F	

Sprinkler Legend - New Heads										
SYM	MAN	SIN	K	TYPE	THD	Response	FIN	TEMP	ESC	QTY
	Tyco	TY3231	5.6	CHR SSP	1/2	Quick	Chrome	155°F	CHROME	12
	Tyco	TY3551	5.6	CONC SSP	1/2	Standard	Brass	155°F	WHT	11
	Tyco	TY3153	5.6	SSU	1/2	Standard	Natural Brass	155°F		10
	Tyco	TY3251	5.6	CHR SSP	1/2	Standard	Chrome	155°F	CHROME	12
										Total = 45

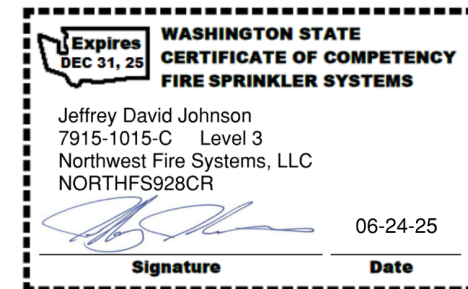
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Phone: 800-785-5700

Contract Name:

BARNES AND NOBLE

3500 S. MERIDIAN ST UNIT
800
PUYALLUP, WA 98373

Drawing Title

TENANT IMPROVEMENT FIRE SPRINKLER PLAN

Key Plan

Date: 06.25.2025

Job Number: 05532C

Designer: BRYAN FARMER

Building Permit:

Drawing No.

FP 2.0