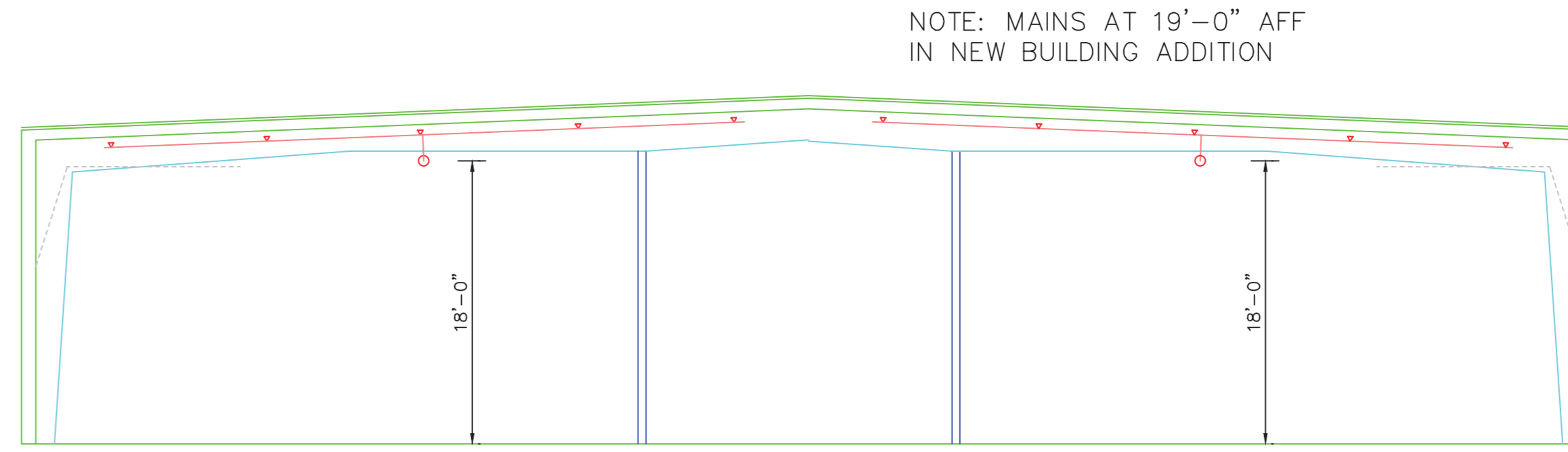
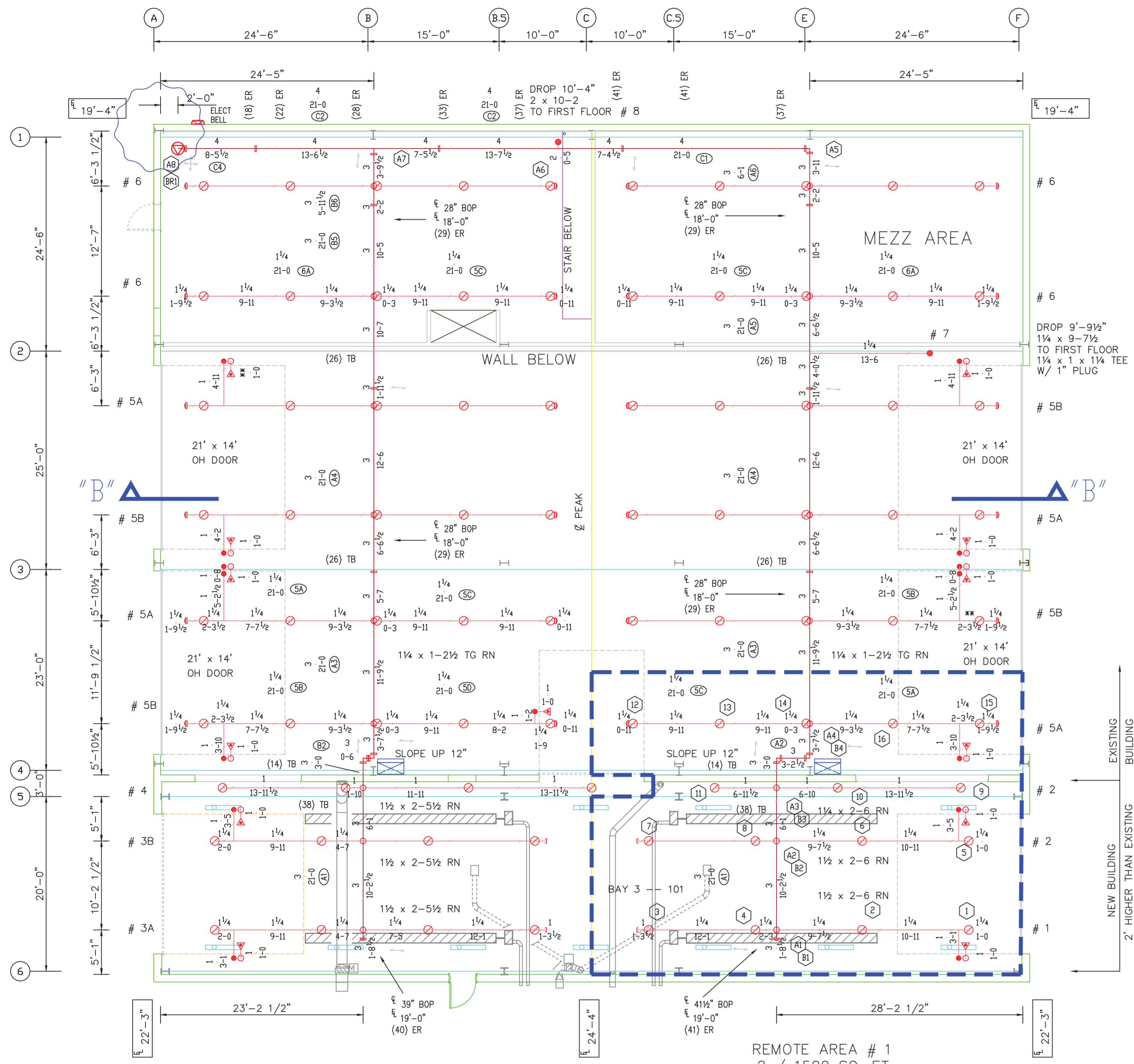


REVIEWED FOR
CODE COMPLIANCE
BP-17-3412-CADD
501 SE 2ND ST
BLDG B



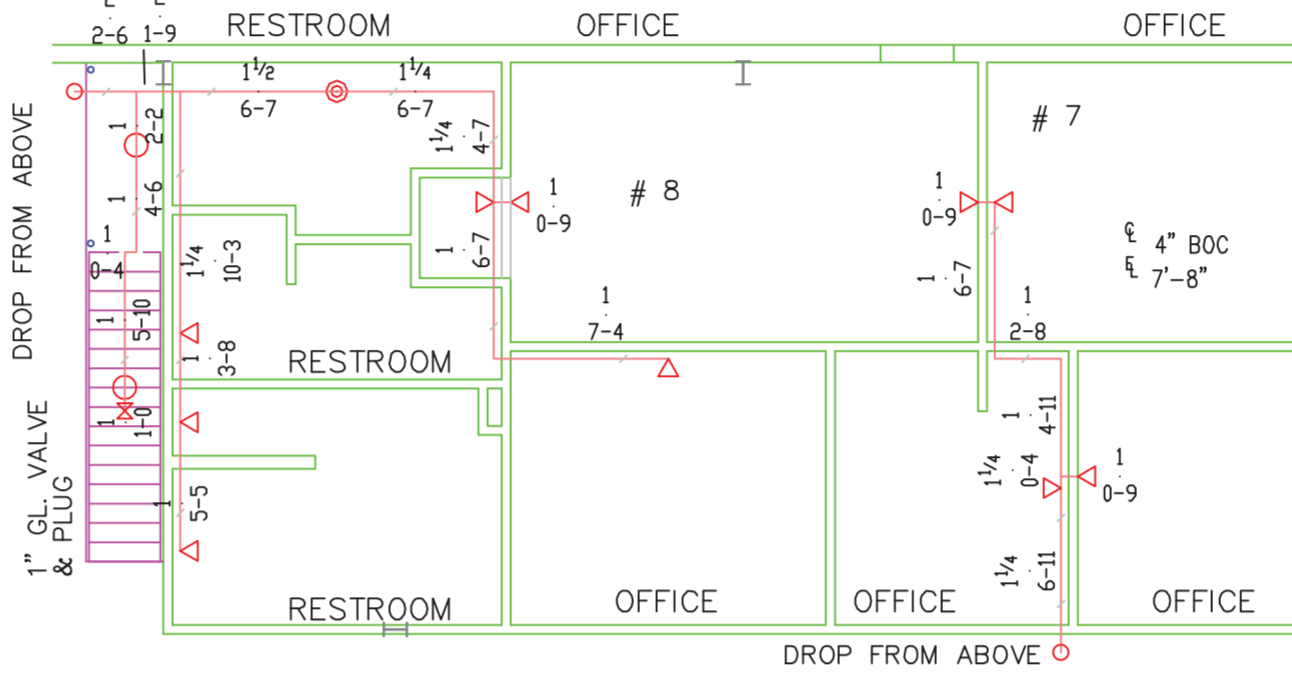
SECTION "B-B" EXIST. SHOP BLDG

CITY OF BEND STAMP



SHOP BUILDING

REMOTE AREA # 1
.2 / 1500 SQ. FT.
ACTUAL AREA = 1684



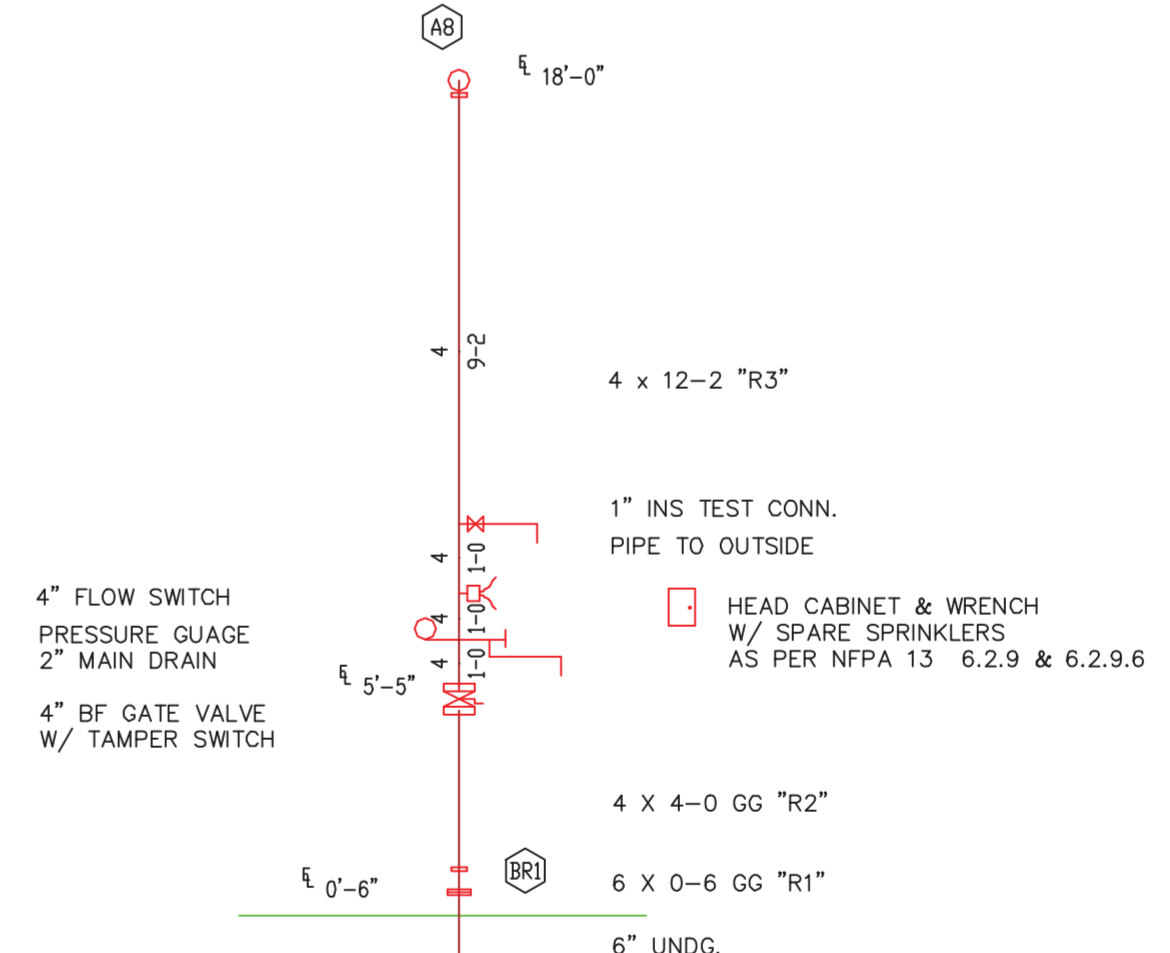
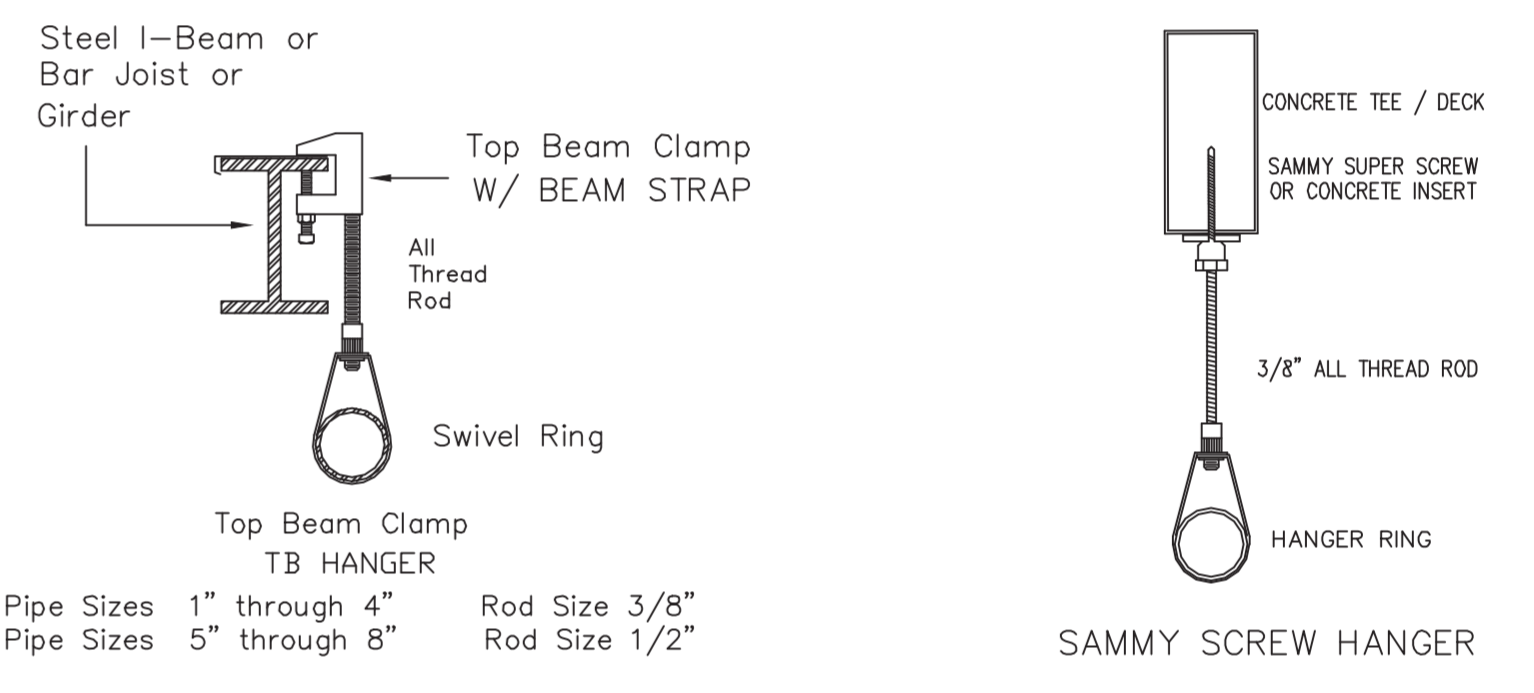
FIRST FLOOR SHOP BLDG.

NOTE: MEZZ. FLOOR ABOVE IS CONCRETE
NO CEILING IN THESE ROOMS (BOTTOM OF
CONCRETE = CEILING)
PIPE TO BE EXPOSED
RUN PIPE @ 4" OFF WALLS

SYSTEM NUMBER: 1	REMOTE AREA NUMBER: SHOP BUILDING
OCCUPANCY CLASSIFICATION: ORDINARY HAZARD II	AREA OF APPLICATION: 1500 SQ. FT.
DENSITY: .20	NO. OF HEADS CALCD: 16
MAX. 130 SQ. FT. PER HEAD	ORIFICE SIZE: 17/32"
SPRINKLER SYSTEM DEMAND: 417.2 GPM AT 45.2 PSI AT BASE OF RISER	HOSE STREAM REQUIRED: 250 GPM (INSIDE) 250 GPM (OUTSIDE)
TOTAL WATER REQUIRED: 667.6 GPM AT 54.8 PSI AT CITY CONN.	PRESSURE AVAILABLE: 66.2 PSI
	11.4 PSI SAFETY FACTOR

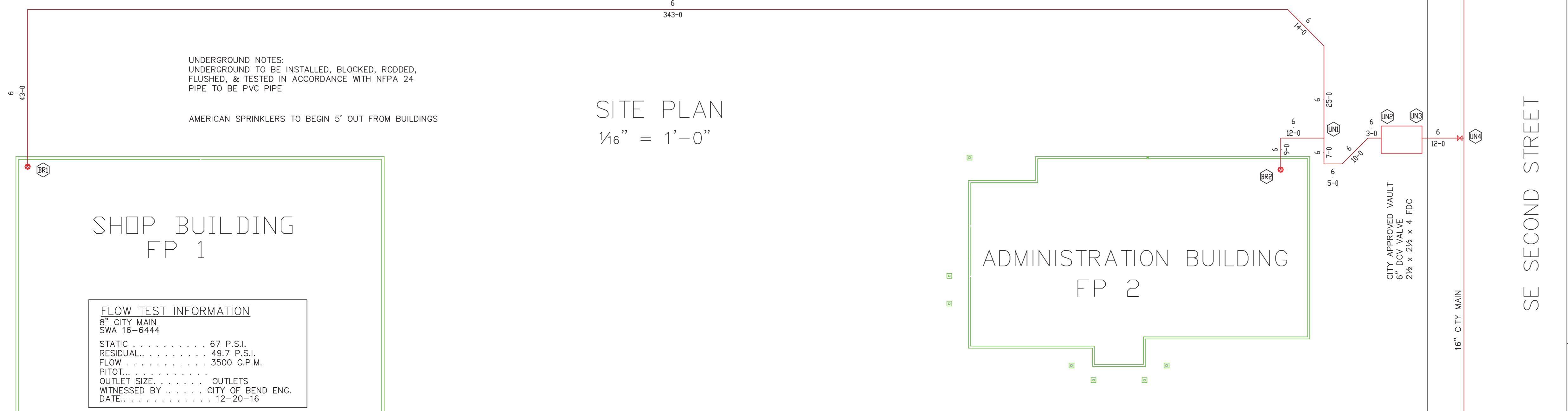
- GENERAL NOTES**
- DESIGN ORDINARY HAZARD II / 1500 SQ. FT. BUILDING IS USED FOR BUS BARN.
 - MAIN PIPING TO BE THINWALL SCH. 10 PIPE WITH GROOVED FITTINGS AND SCH. 40 PIPE WITH CI SCREWED FITTINGS FOR THREADED PIPE.
 - SYSTEM TO BE IN ACCORDANCE WITH NFPA # 13.
 - MAXIMUM STORAGE HEIGHT TO BE 12' PALLETIZED THROUGHOUT BUILDING. (IF FUTURE RACK STORAGE IS TO BE INSTALLED, STORAGE HEIGHT WILL BE LIMITED TO 12' FOR UP TO CLASS III COMMODITY AND 10' FOR CLASS IV COMMODITY)
 - ALL UNDERGROUND PIPING (BY OTHERS) TO BE INSTALLED, BLOCKED, RODDED, FLUSHED, AND TESTED IN ACCORDANCE WITH NFPA # 13 & # 24 & # 25.
 - SYSTEM TO BE TESTED AT 200 # FOR 2 HOURS.
 - SEE NOTES ON SPRINKLER DESIGN.

- DESIGN DEFINITIONS FROM NFPA 13 2013 EDITION:**
- ORDINARY HAZARD GROUP II: NFPA 5.3.2 "OCCUPANCIES SHALL BE DEFINED AS OCCUPANCIES OR PORTIONS OF OTHER OCCUPANCIES WHERE THE QUANTITY AND COMBUSTIBILITY OF CONTENTS ARE MODERATE TO HIGH, STOCKPILES DO NOT EXCEED 12' AND FIRES WITH MODERATE TO HIGH RATES OF HEAT RELEASE ARE EXPECTED."
 - NFPA 5.3.2 GIVES EXAMPLES OF ORD. HAZARD GROUP II AS: CEREAL MILL, ORDINARY CHEMICAL PLANTS, DRY CLEANERS, HORSE STABLES, LEATHER GOODS MGR., MACHINE SHOPS, METAL WORKING, MERCANTILE, PRINTING AND PUBLISHING, REPAIR GARAGES, RESIN APPLICATION AREA, STAGES, TIRE MGR., WOOD MACHINING, AND WOOD PRODUCT ASSEMBLY.
 - ANY APPLICATION OTHER THAN THOSE MENTIONED ABOVE WILL NEED TO BE VERIFIED BY FIRE MARSHAL AS AN ORDINARY HAZARD OCCUPANCY.
 - SPRINKLER SYSTEM MAY NEED TO BE REVISED IF APPLICATION DOES NOT MEET THE ABOVE CRITERIA.
 - THE SPRINKLER SYSTEM FOR THIS BUILDING IS DESIGNED AND INSTALLED IN ACCORDANCE TO THE CURRENT (ADOPTED) EDITIONS OF NFPA.



NOTE: FLOW SWITCH AND TAMPER SWITCHES TO BE CONNECTED TO CENTRAL ALARM STATION BY OTHERS.

NOTE: ALL RISERS TO HAVE IDENTIFICATION SIGNS AS PER NFPA 13 SECTION 6.7.4.1 ALONG WITH HYDRAULIC CALC. PLAQUE AS PER SECTION 16.3



UNDERGROUND NOTES:
UNDERGROUND TO BE INSTALLED, BLOCKED, RODDED, FLUSHED, & TESTED IN ACCORDANCE WITH NFPA 24
PIPE TO BE PVC PIPE

AMERICAN SPRINKLERS TO BEGIN 5' OUT FROM BUILDINGS

FLOW TEST INFORMATION

BY CITY MAIN
SWA 16-6444

STATIC 67 P.S.I.
RESIDUAL 49.7 P.S.I.
FLOW 3500 G.P.M.
PISTON
OUTLET SIZE
WITNESSED BY CITY OF BEND ENG.
DATE 12-20-16

SPRINKLER SYMBOL DESCRIPTION									
SYMBOL	MAKE	MODEL	STYLE	COLOR	SN #	ORIFICE	TEMP	K-FACTOR	TOTAL
○	GLOBE	OR BULB	SSU	BRASS	GL5615	1/2"	175°	5.6	2
●	GLOBE	OR BULB	SSP	CHROME	GL5610	1/2"	155°	5.6	1
△	GLOBE	OR BULB	HSW	CHROME	GL5626	1/2"	155°	5.6	10
▲	GLOBE	OR BULB	HSW	CHROME	GL5626	1/2"	175°	5.6	13
○	GLOBE	OR BULB	SSU	BRASS	GL8164	17/32"	175°	8.0	83
TOTAL SPRINKLERS									109
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT									199

SYMBOLS	REVISIONS
Y = 2" PIPE STAND	5-25-17 RELOCATE LEAD-IN
○ = MAIN PIPE NUMBER	
# 6 = LINE NUMBER	
⊕ = CENTERLINE OF PIPE	
⊕ = ELEVATION OF PIPE AFF	
⊕ = HANGER LOCATION	
TOU = TOP OF JOIST (STEEL)	
BOB = BOTTOM OF CONCRETE DECK	
⊕ = 2 WAY EARTHQUAKE BRACE	
⊕ = 4 WAY EARTHQUAKE BRACE	
⊕ 21'-0" = ELEVATION BOP	

OWNER:
BEND LAPINE SCHOOLS
520 NW WALL STREET
BEND, OREGON 97703

AMERICAN SPRINKLERS, INC.
7950 N. LINE PINE ROAD
(541) 504-0837 (503) 289-3095 PORTLAND
(541) 504-4244 FAX (503) 541286-2640 PORTLAND FAX
(541) 548-0579 CELL PHONE
TERREBONNE, OREGON 97760

PROJECT
BLS TRANSPORTATION FACILITY
ADMINISTRATION & SHOP BUILDINGS
501 S.E. 2 ND STREET
BEND, OREGON 97702

SHEET TITLE
FIRE SPRINKLER SYSTEM

BUILDING AREA:
9,821 SQ. FT.

DATE:
4-18-17

SCALE:
1/4" = 1'-0"

JOB NO.:
2017-13

BY:
C. HEGELE

SHEET:
FP 1 OF 2