

VICINITY MAP
SCALE: 1"=600'

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF SALEM STANDARD CONSTRUCTION SPECIFICATIONS AND ANY SPECIAL PROVISIONS INCLUDED AS APART OF THE APPROVED PLANS.
2. ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-232-1987.

SURVEYOR

MULTI/TECH ENGINEERING SERVICES, INC.
1155 13TH ST.
SALEM, OR 97302
(503) 363-9227
CONTACT: ROBERT HAMMAN

SURVEY

SURVEY PROVIDED BY MULTI/TECH ENGINEERING SERVICES, INC.
DATED JUNE 2010. ALL ELEVATIONS ARE BASED UPON THE CITY OF SALEM CONTROL MONUMENT NO. 1088 BRASS DISK IN A CONCRETE POST AT THE INTERSECTION OF 4TH STREET AND LOCUST STREET.
ELEVATION IS 148.23, NGVD 47.

ARCITECT/ENGINEER

ARCHITECT:
CARLETON HART ARCHITECTURE
322 NW 8TH AVE.
PORTLAND, OR 97209
(503)206-3185
CONTACT: DEVIN FOLLINGSTAD

ENGINEER:
MGH ASSOCIATES, INC.
104 W. 9TH STREET, SUITE 207
VANCOUVER, WA 98660
(360)718-9500
CONTACT: WILLIAM BRANNAN, PE

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		MANHOLE
		CATCH BASIN
		DRYWELL
		CLEAN OUT
		FIRE HYDRANT
		FIRE DEPARTMENT CONNECTION
		WATER VAULT
		WATER METER
		WATER VALVE
		LIGHT POLE
		POWER POLE
		ANCHOR POLE
		LIGHTING PULL BOX
		GAS VALVE
		SIGN
		TREE
		PROPERTY LINE
		CENTERLINE
		CONTOUR
		SAWCUT LINE
		EDGE OF PAVEMENT
		CURB
		STORM DRAIN
		SANITARY SEWER
		PUBLIC WATER (BY CITY)
		PRIVATE WATER
		OVERHEAD UTILITIES
		GAS
		FENCE

ABBREVIATIONS

BS	BOTTOM OF STAIR	MIN.	MINIMUM
COS	CITY OF SALEM	N:	NORTHING
COTG	CLEAN OUT TO GRADE	NO.	NUMBER
CT	CURB TAPER	NTS	NOT TO SCALE
DS	DOWNSPOUT	ROW	RIGHT-OF-WAY
RD	ROOF DRAIN	S=	SLOPE EQUALS
E:	EASTING	SD	STORM DRAIN
(E)	EXISTING	SS	SANITARY SEWER
EX.	EXISTING	STD.	STANDARD
F	FIRE	TC	TOP OF CURB
FF	FINISHED FLOOR	TP	TOP OF PAVEMENT
H	HEIGHT	TS	TOP OF STAIR
IE	INVERT ELEVATION	MOW	MOW STRIP
LF	LINEAL FEET	TYP.	TYPICAL
MAX.	MAXIMUM	W	WATER

SHEET INDEX

C5.0	PUBLIC WORKS COVER SHEET
C5.1	PUBLIC WORKS UTILITY PLAN
C5.2	PUBLIC WORKS DETAILS



CARLETON HART ARCHITECTURE
322 NW 8th Avenue Portland, Oregon 97209
t 503.243.2252 | f 503.243.3261 | carletonhart.com

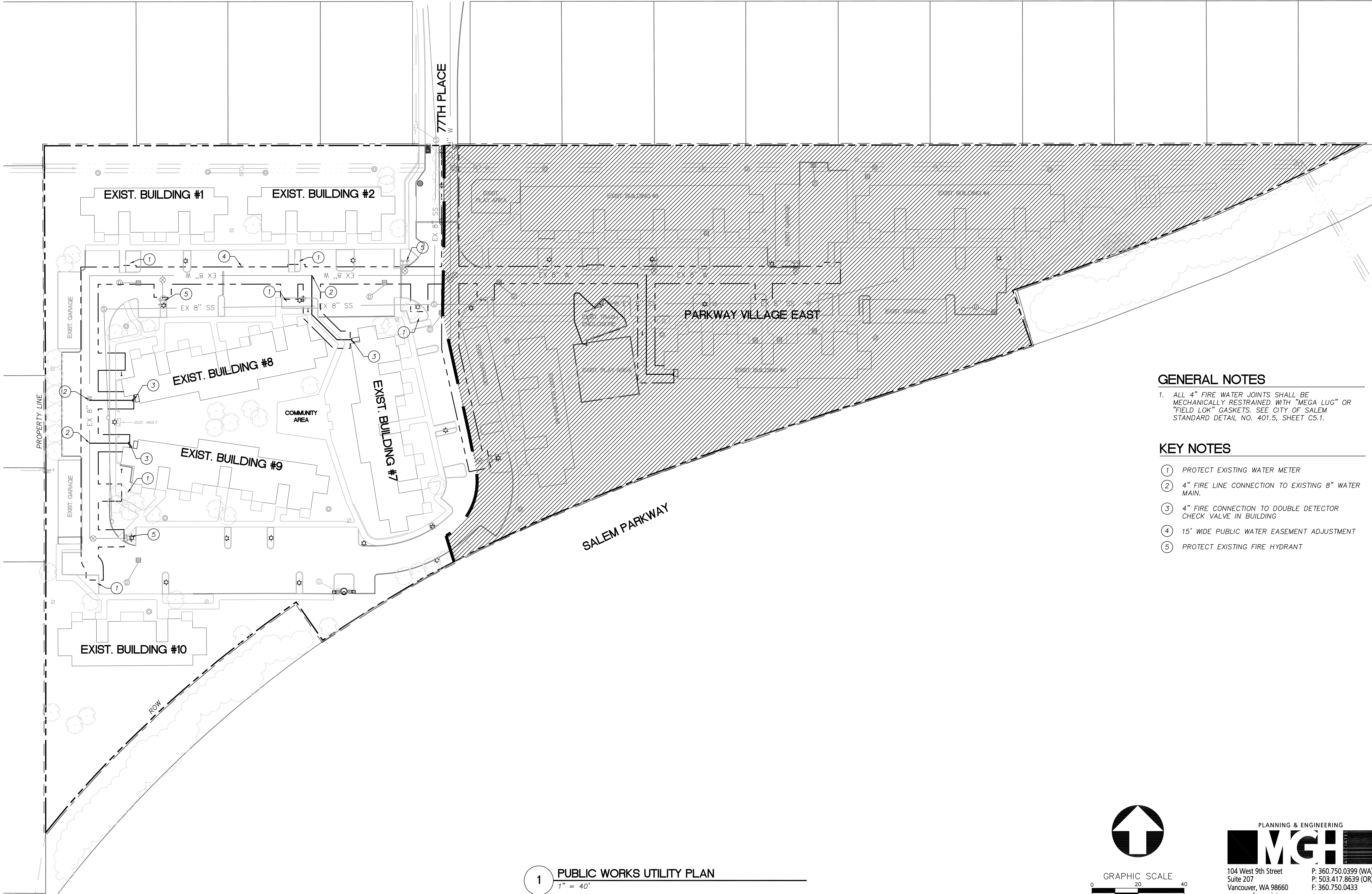
PARKWAY VILLAGE : WEST
SITE REPAIRS
SALEM HOUSING AUTHORITY

PERMIT REVIEW/BID SET

PUBLIC WORKS
COVER SHEET

PROJ NO.
21345

01.10.2014

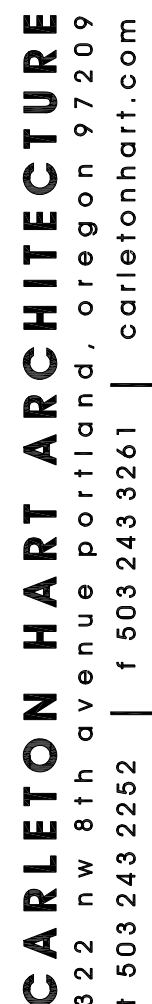


GENERAL NOTES

1. ALL 4" FIRE WATER JOINTS SHALL BE MECHANICALLY RESTRAINED WITH "MEGA LUG" OR "FIELD LOK" GASKETS. SEE CITY OF SALEM STANDARD DETAIL NO. 401.5, SHEET C5.1.

KEY NOTES

1. PROTECT EXISTING WATER METER
2. 4" FIRE LINE CONNECTION TO EXISTING 8" WATER MAIN.
3. 4" FIRE CONNECTION TO DOUBLE DETECTOR CHECK VALVE IN BUILDING
4. 15' WIDE PUBLIC WATER EASEMENT ADJUSTMENT
5. PROTECT EXISTING FIRE HYDRANT



**PARKWAY VILLAGE : WEST
SITE REPAIRS**
SALEM HOUSING AUTHORITY

PERMIT REVIEW/BID SET

PUBLIC WORKS DETAILS

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01.10.2014

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PLANNING & ENGINEERING

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C5.2

12"	49	31	24	21	86	--	--	--	--	--
-----	----	----	----	----	----	----	----	----	----	----

BEND
90°, 45°, 22 1/2°, 11 1/4°

DEAD END

REDUCER

Tree Configurations (Restraint Length for Branch)										
Branch Pipe Diameter	L=0	L=2	L=4	L=6	L=8	L=10	L=12	L=14	L=16	L=18
4"	44	30	19	19	19	19	19	19	19	19
6"	55	45	36	26	19	19	19	19	19	19
8"	66	59	52	44	37	30	23	19	19	19
10"	76	70	64	58	53	47	41	35	30	24
12"	86	81	76	71	67	62	57	52	47	43

LR is the minimum length in either direction from tee to nearest adjacent joint

NOTES:

1. ALL JOINTS WITHIN THE LENGTH "L1" FROM THE ABOVE TABLE, SHALL BE RESTRAINED.
 2. THE JOINT RESTRAINT LENGTHS CALCULATED ARE FOR FITTINGS USED TO CHANGE PIPE HORIZONTAL ALIGNMENT ONLY. FOR APPLICATIONS WHERE FITTINGS ARE USED TO CHANGE THE SLOPE OF THE PIPE, THE DESIGN ENGINEER SHALL INCLUDE THE JOINT RESTRAINT REQUIREMENTS ON THE PROJECT DRAWINGS.
 3. IF AN UNANTICIPATED NEED FOR JOINT RESTRAINT ARISES TO CHANGE THE SLOPE OF THE PIPE, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER OR UTILIZE ANCHORS IN ACCORDANCE WITH STANDARD DRAWING NO. 402.
 4. JOINT TYPES NOT COVERED ON ABOVE TABLE MUST BE DESIGNED INDIVIDUALLY IN ORDER TO DETERMINE APPROPRIATE RESTRAINED LENGTH. THIS LENGTH SHALL BE SHOWN ON THE PROJECT DRAWINGS.
 5. THE SMALL DIAMETER SIDE OF A REDUCER DOES NOT REQUIRE RESTRAINT IF THE LARGE DIAMETER SIDE IS PROPERLY RESTRAINED.
 6. ABOVE RESTRAINED LENGTHS ARE BASED ON:
 - TEST PRESSURE OF 150 POUNDS PER SQUARE INCH
 - MINIMUM OF 3 FEET COVER
 - CLASS B PIPE ZONE CONDITIONS
 - WHEN ORGANIC OR CLAY TYPE SOILS ARE BEING USED FOR BACKFILL, GRANULAR BACKFILL MUST BE USED FOR BEDDING AND BACKFILL TO A HEIGHT OF 6 INCHES OVER THE TOP OF THE PIPE BEFORE OTHER SOILS ARE PLACED.
 - UNCOATED PIPE, THIS TABLE IS NOT APPLICABLE FOR PIPE ENCASED IN POLYETHYLENE
- ANY REDUCTION OF THESE VALUES AS A RESULT OF OTHER CONDITIONS ENCOUNTERED SHALL BE BASED ON THE APPROPRIATE EVALUATION AND RECOMMENDATION BY A QUALIFIED, REGISTERED ENGINEER AND WITH APPROVAL BY THE CITY.

Approved

Karl O. Hunter
City Engineer

2-1-00
Date

CITY OF SALEM
DEPARTMENT OF PUBLIC WORKS

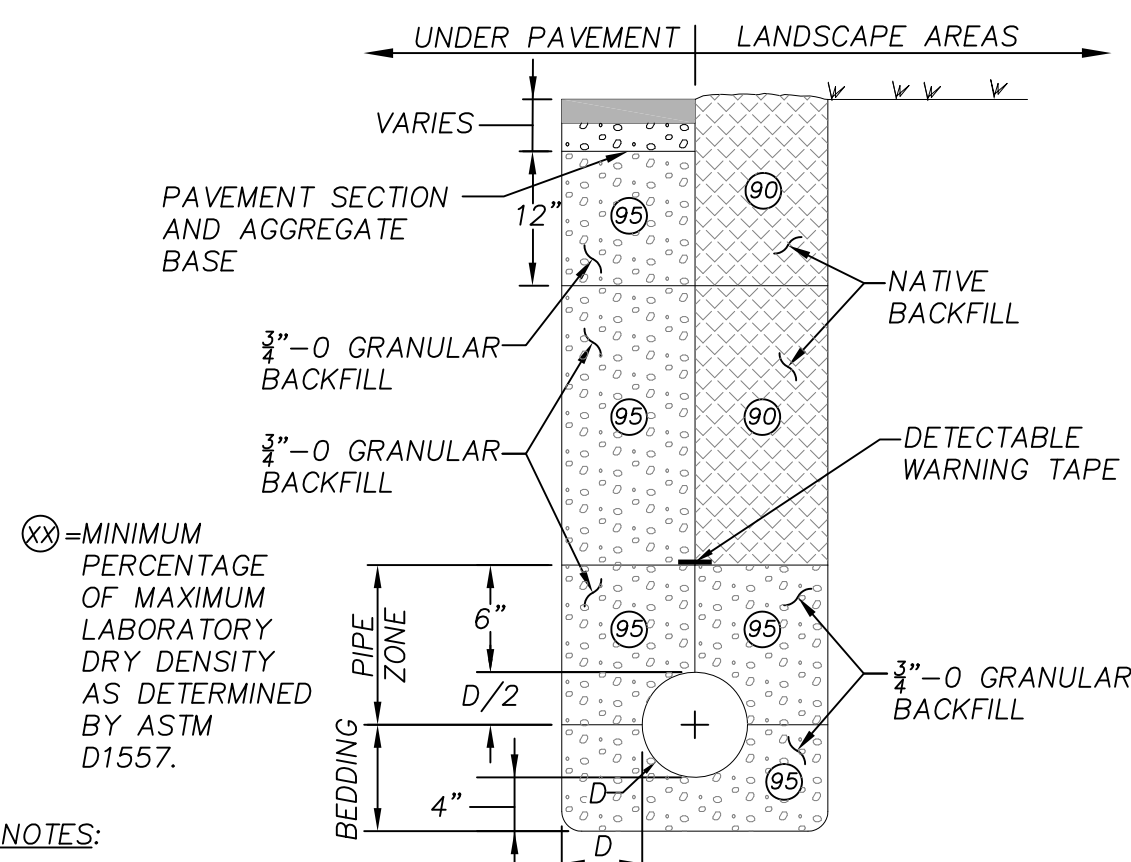
STANDARD PLAN

JOINT RESTRAINT

DRAWN BY: TAL

CHECKED BY: KW

NO. 401.5



TRENCH BACKFILL

NTS

HYDRAULIC - SYSTEM

This building is protected by a hydraulically Designed Automatic Sprinkler System.

Location

3RD FLOOR APARTMENT

No. of Sprinklers

4

Basis of Design

1. DENSITY05 GPM/SQ. FT.

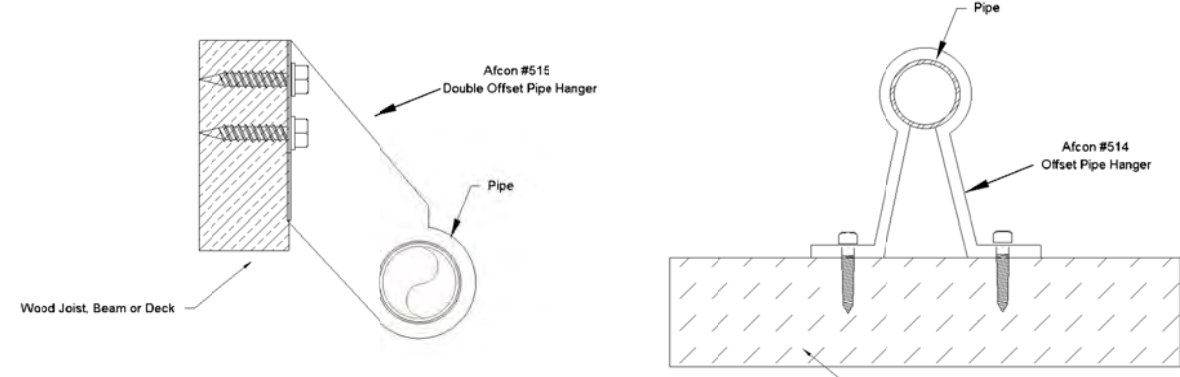
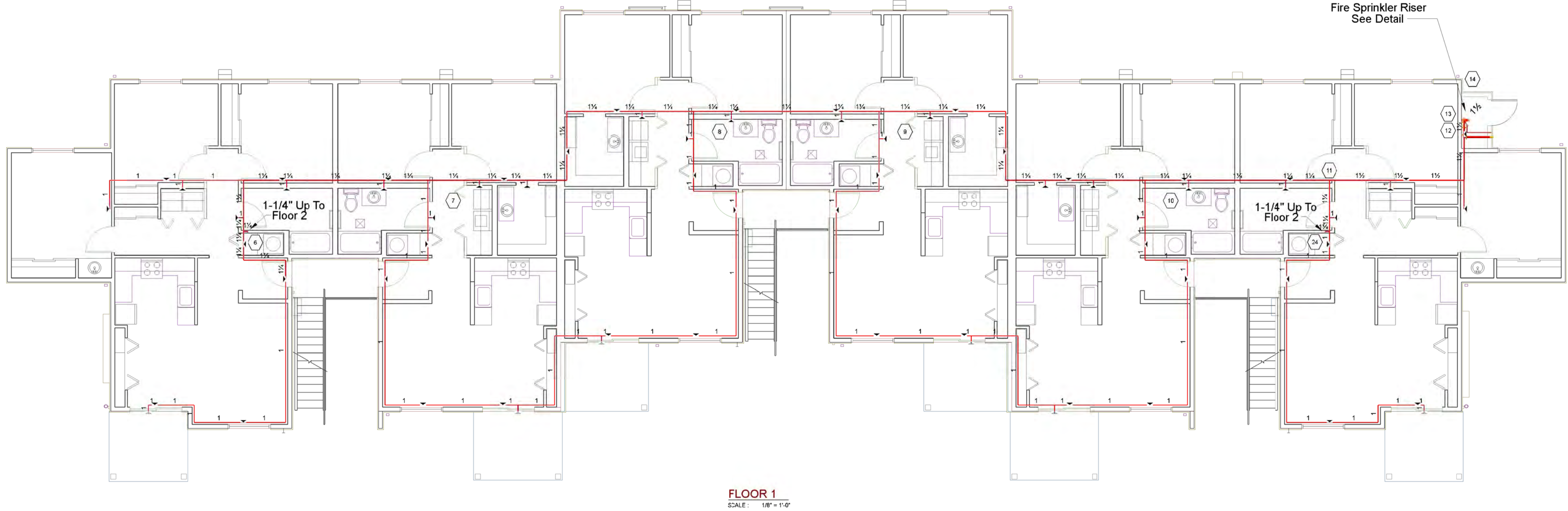
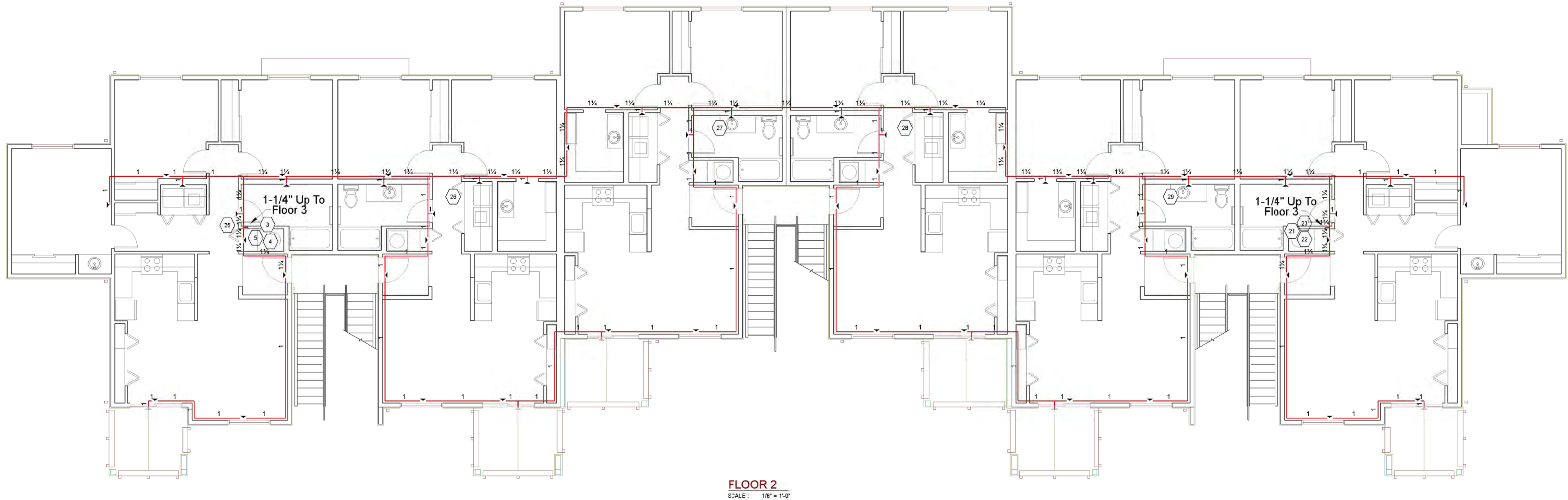
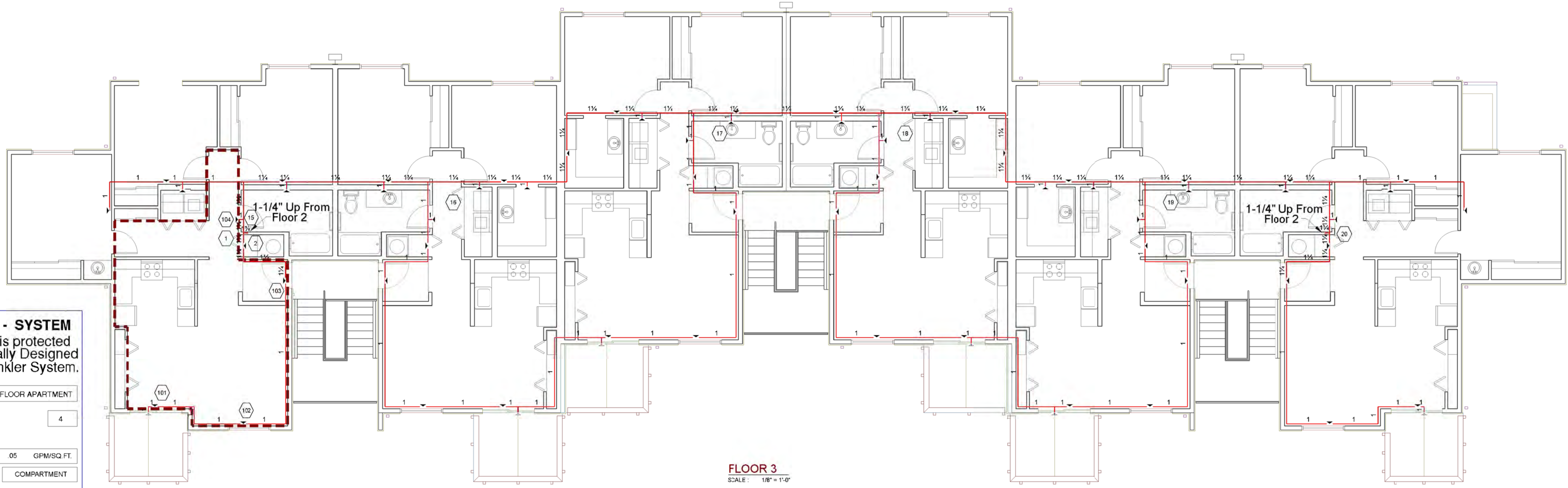
2. DESIGNED AREA OF DISCHARGECOMPARTMENT

System Demand

1. GPM/EDUCING82.0 GPM

2. RESIDUAL PRESSURE AT THE BASE OF THE RISER65.4 PSI

Hydraulic data placard information



- GENERAL NOTES**
1. WESTERN STATES FIRE PROTECTION (WSFP) CONTRACT SHALL START AT 6" ABOVE FINISHED FLOOR.
 2. FIRE SPRINKLER SYSTEM WILL BE DESIGNED AND INSTALLED PER NFPA 13R.
 3. ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE PROVIDED BY OTHERS FOR THE FIRE SPRINKLER SYSTEM.
 4. ALL PIPING SHALL BE HYDROSTATICALLY TESTED @ 200 PSI FOR (2) HOURS.
 5. SPRINKLER HEAD SPACING AND HYDRAULIC PRESSURE / GALLONS ARE PER MANUFACTURER'S REQUIREMENTS.
 6. ALL MATERIALS SHALL BE NEW, UL LISTED.
 7. PAINTING OF PIPE AND PROTECTION FROM PAINT IS NOT IN CONTRACT (NIC).
 8. OWNER IS TO PROVIDE HEAT AT ALL TIMES WHERE WET PIPE SPRINKLER SYSTEM IS INSTALLED.
 9. FOR CLARITY NOT ALL HANGERS ARE SHOWN, BUT WILL BE INSTALLED PER NFPA 13R.
 10. CPVC PIPING TO BE ENCLOSED IN SOFFITS BY OTHERS 4" OR LESS FROM WALLS.

SYSTEM DESIGN

BUILDING CODE: SPRINKLERED PER NFPA 13R, 2010 ED., RESIDENTIAL SPRINKLER HEADS

APARTMENT UNITS - RESIDENTIAL

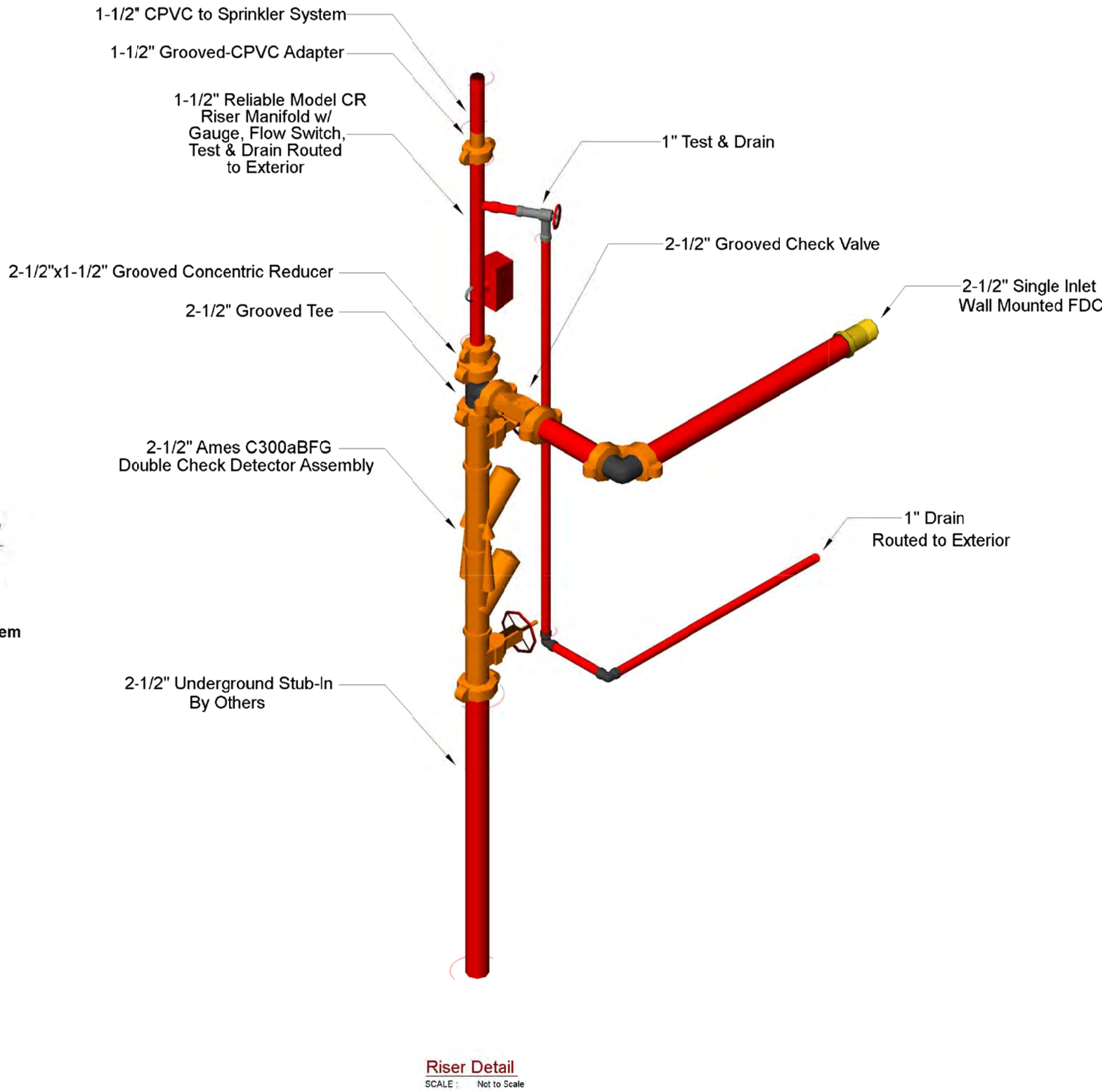
HYDRAULIC REMOTE AREA: UP TO 4 SPRINKLERS IN A COMPARTMENT AT 0.05 GPM/SQ. FT DENSITY.

PIPE MAINS AND BRANCH LINES ARE CPVC WITH CPVC FITTINGS.

Water Supply

Static Pressure: 78 psi
Residual Pressure: 65 psi
Flow Rate: 1680 GPM

Data provided by City of Salem



WEST BLDGS 7, 8, 9

PARKWAY APARTMENTS

SALEM, OR

Approval: Owners' Agents
City of Salem
Contract No.: LM0037
Sprink on Sheet: 199 Per Building
Sprink on Job: 752
Drawn By: Jared Hill
Scale: 1/8" = 1'-0" U.O.N.
Date: January 1, 2014

Western States Fire Protection Company

13880 FIRE ST. SUITE B, OREGON CITY, OREGON 97059
WESTERN STATES FIRE PROTECTION COMPANY, OFFICES LOCATED:
DALLAS TEXAS, DENVER COLORADO, FORT COLLINS COLORADO, HOUSTON TEXAS, KANSAS CITY MISSOURI, LOS ANGELES CALIFORNIA, MINNEAPOLIS MINNESOTA, OMAHA NEBRASKA, PHOENIX ARIZONA, SAN ANTONIO TEXAS, SEATTLE WASHINGTON, ST. LOUIS MISSOURI, TAMPA FLORIDA, WASHINGTON DC, WICHITA KANSAS

Revisions	Description	Date	Symbol	Description	Sprinkler Legend	Device Mfg.	RELIABLE	Orif. Thrd	Temp	Quan
				F1 Res44 Residential Sidewall			White	1/2"	155°	181
				F30R Dry Sidewall			White	1/2"	200°	18

Architect:

Engineer:

Contractor: LMC Construction

SHEET

FP-2