



PIPE SIZES FOR SYSTEM 23 BASED ON SYSTEM 14 CALCULATION
 PIPE SIZES FOR SYSTEM 24 BASED ON SYSTEM 27 CALCULATION

SYSTEMS 23&24
 SCALE = 3/32" = 1'-0"

TOP OF STEEL HIGH POINT = 49'-8 1/2" @ COL. G
 TOP OF STEEL LOW POINT = 41'-7" @ COL. A&N

ALL 2 1/2" LINES TO BE 8" FROM TOP OF STEEL UNLESS NOTED OTHERWISE
 ALL 4" MAINS TO BE 1'-8 1/2" FROM TOP OF STEEL UNLESS NOTED OTHERWISE
 ALL 6" MAINS TO BE 1'-9 1/2" FROM TOP OF STEEL UNLESS NOTED OTHERWISE
 ALL BAY DOORS ARE VERTICAL LIFT AND DO NOT REQUIRE ADDITIONAL HEADS

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27

KEY PLAN
 NOT TO SCALE

HYDROSTATIC TEST TO BE CONDUCTED AT 225 PSI

STANDARD DRAWING SYMBOLS	TYPICAL HANGER ASSEMBLIES BY NUMBER
0-0 DENOTES CENTERLINE OF PIPE ABOVE FINISH FLOOR	01 TOP BEAM CLAMP (TBC)
0-1 DENOTES CENTERLINE OF PIPE BELOW TOP OF STEEL	02 SAMMY SPC-20 SIDE CONCRETE
0-2 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	03 WIDE MOUTH TOP BEAM CLAMP
0-3 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	04 INVERTED TOP BEAM CLAMP
0-4 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	05 SAMMY SPC-20 SIDE WOOD
0-5 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	06 INVERTED WIDE MOUTH TBC
0-6 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	07 SAMMY SPC-20 SIDE STEEL
0-7 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	08 FIRE HOSE VALVE
0-8 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	09 FIRE HYDRANT
0-9 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	10 FIRE DEPT. CONN.
1-0 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	11 FIRE HOSE VALVE CABINET
1-1 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	12 PRESSURE DRAIN
1-2 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	13 PRESSURE GAUGE
1-3 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	14 SAMMY SPC-20 STRAIGHT CONCRETE
1-4 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	15 SAMMY SPC-20 STRAIGHT WOOD
1-5 DENOTES CENTERLINE OF PIPE BELOW BOTTOM OF BEAM	16 SAMMY SPC-20 STRAIGHT STEEL

FIRE PROTECTION SPECIFICATIONS
1. DO NOT SCALE DRAWING(S).
2. ALL PIPE NOTED AS: GC-GROOVED END TO CENTER, GC = GROOVED END TO GROOVED END, INDICATES ACTUAL PIPE "CUT" LENGTHS (I.O.D.N.)
3. DESIGN, INSTALLATION & MATERIALS TO BE PER N.F.P.A. #13 2016
4. HANGERS & ATTACHMENTS TO BE U.L. LISTED & SPACING PER N.F.P.A. #13 2016
5. ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED AT 225 PSI FOR 2 HOURS W/ NO VISIBLE SIGN OF LEAKAGE.
6. THE OWNER SHALL PROVIDE A MINIMUM OF 40' F TO PREVENT SPRINKLER PIPE FROM FREEZING.
7. CONTRACTOR SHALL PROVIDE THE OWNER, INSURANCE CO., & THE PROPER CITY OFFICIALS WITH COPIES OF THE MATERIALS & TEST CERTIFICATES
8. ALL FLOW AND TAMPERS SHALL BE SUPERVISED IN ACCORDANCE WITH NFA 72. THIS WORK IS TO BE DONE BY OTHERS AND IS NOT PART OF S.A. COMUNALE CONTRACT.

MATERIAL SPECIFICATIONS
Note: 1" Pipe is Sch. 40 A53 (uno)
American Made (Domestic)
Smith-Cooper Fittings
Smith-Cooper Couplings
Firelock Fittings
Standard Fire Central Pipe
Head Wrenches
Spare Head Cabinet
Top Beam Clamps
Concrete Inserts
Seismic Screws
Pipe/Strut/Angle Iron
Flt. Fittings
Hangers Cut Length
Cut Lengths
Center to Center

REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	3/9 VICTALIC PL. GRIST ESTER BRASS PENDENT		
2	3/8 RELIABLE PIPING BRASS UPRIGHT		

SPRINKLER LEGEND						
SYMBOL	QTY.	DESCRIPTION	SYMBOL	THD.	K	TEMP.
3/8	749	VICTALIC PL. GRIST ESTER BRASS PENDENT	R44312	1/2"	150°	150°
3/8	13	RELIABLE PIPING BRASS UPRIGHT				

SEISMIC DESIGN CATEGORY 'B', SEISMIC BRACING NOT REQUIRED

USE GROUP: S-1
 CONSTRUCTION TYPE: II-B
 AREA OF WORK: 963,100 SQ. FT.

PROJECT NAME:
 NY145 BROOKFIELD SUFFERN
 PROJECT LOCATION:
 SUFFERN NY
 TIM SURMAN
 PROFESSIONAL ENGINEER
 NY REG. NO. 107569
 SIGNATURE:
 DATE SIGNED:

S.A. COMUNALE Co. Inc.
 FIRE PROTECTION CONTRACTORS
 3900 NEWPAK DR. BAINSBURY, OHIO 44003 330-700-3040 FAX 330-861-0800
 CLEVELAND: 440-584-8325 COLUMBUS: 614-291-7001 CINCINNATI: 513-874-4288
 FREMONT: 410-334-3841 PHILADELPHIA, PA: 856-648-4666 YOUNGSTOWN: 330-856-4440
 MARION 740-303-6789 WASHINGTON, DC 410-768-1831 READING, PA: 610-670-3800

NY145 BROOKFIELD SUFFERN- BUILDING 1
 25 OLD MILL, ROAD SUFFERN, NY 20901
 ESFR SYSTEMS 23 AND 24
 DATE: 01.11.24 SCALE: 3/32" = 1'-0" DRAWN: SARAH CAREW JOB NO: 51718093 DWG. NO: 16 OF 18