

2 FIRE DEPARTMENT CONNECTION
SCALE: NTS

NO.	DATE	ISSUE DESCRIPTION

NY ENGINEERS
 NEARBY ENGINEERS
 382 NE 191ST STREET SUITE
 49674, MIAMI, FL 33179
 PH-914.257.3455
 WWW.NY-ENGINEERS.COM

PROJECT NAME

PHYSICAL LOCATION

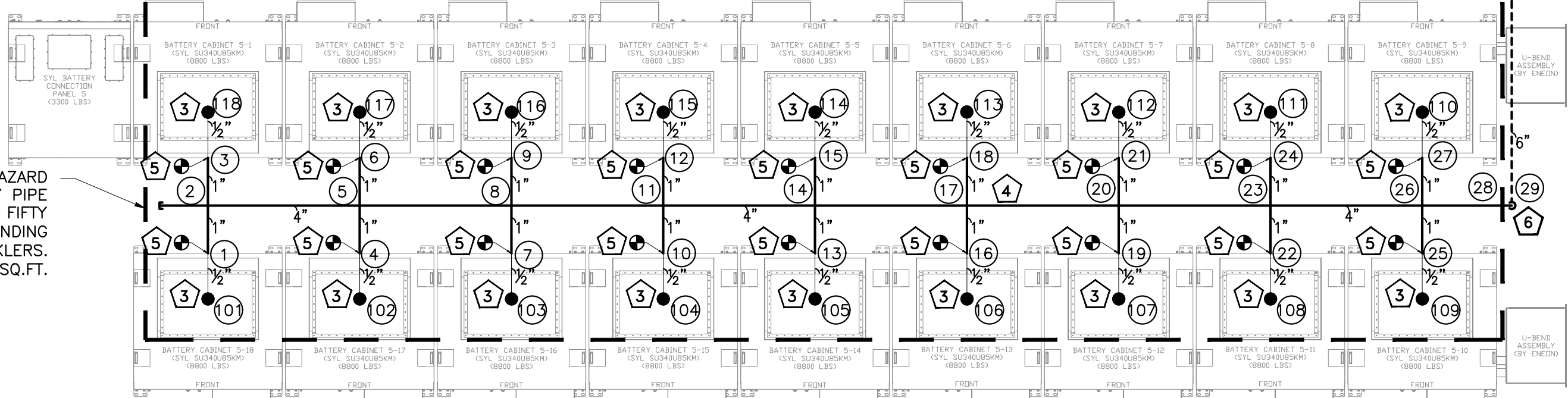
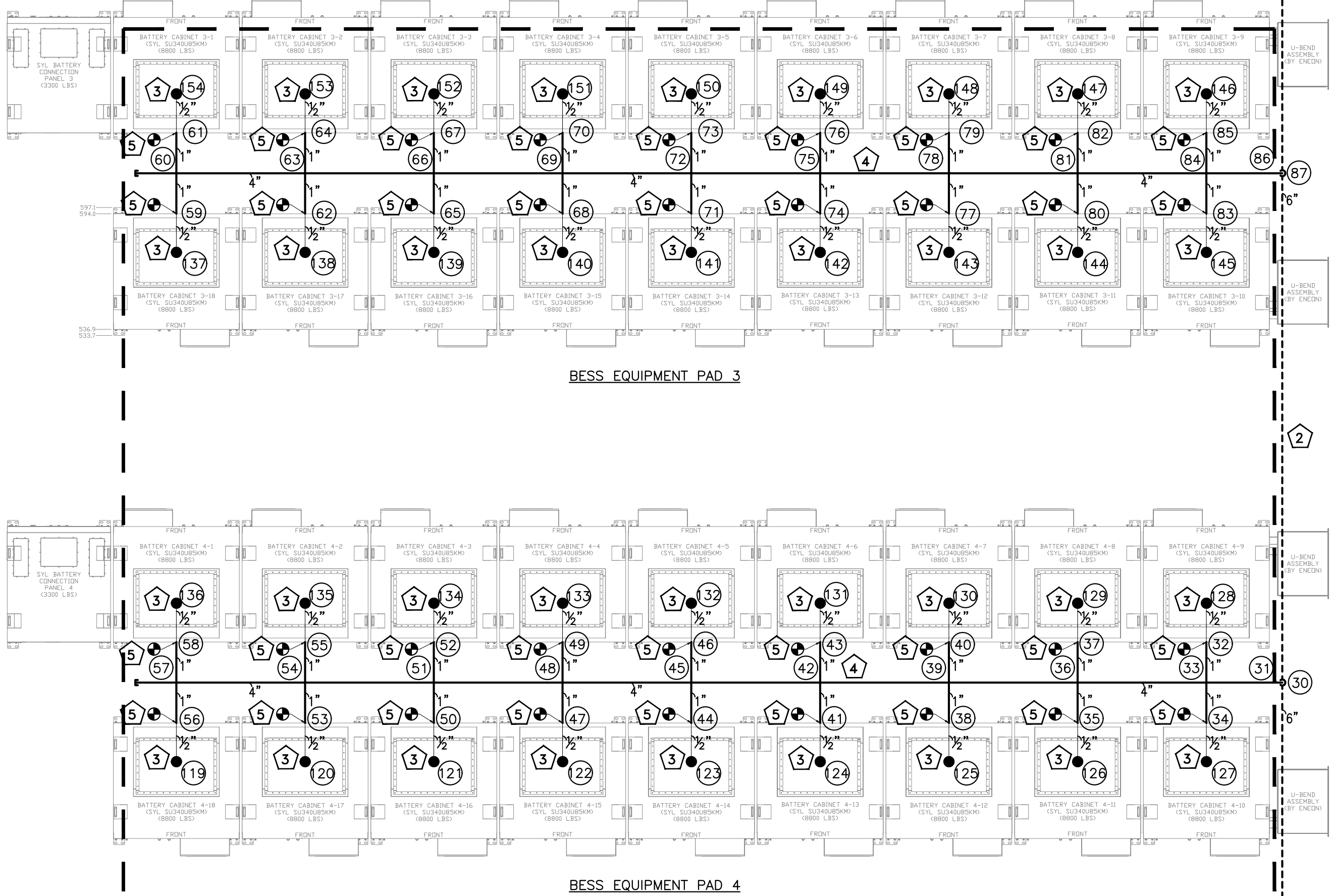
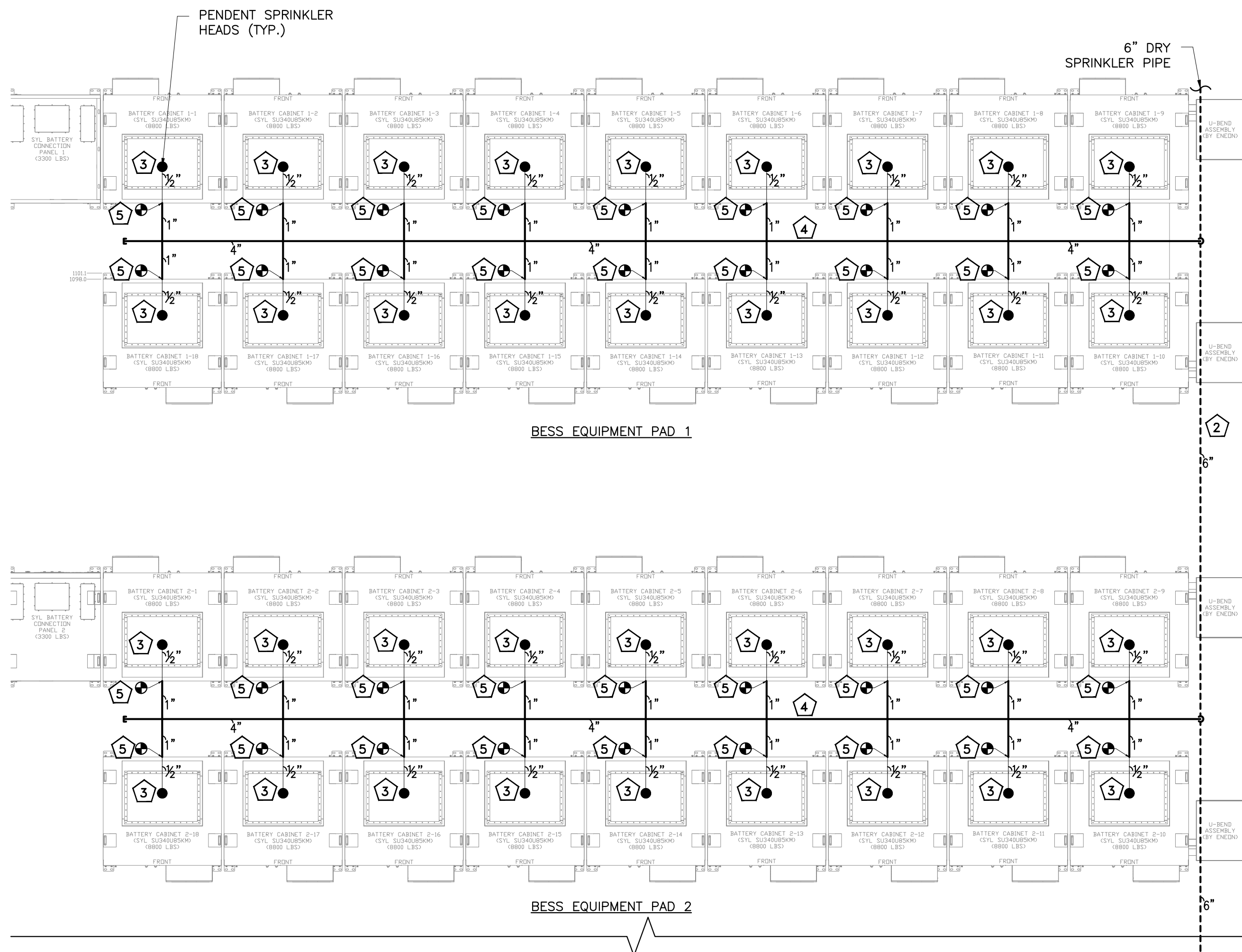
DRAWING TITLE

SPRINKLER OVERALL PLAN

1 SPRINKLER OVERALL PLAN
SCALE: 1/32" = 1'-0"

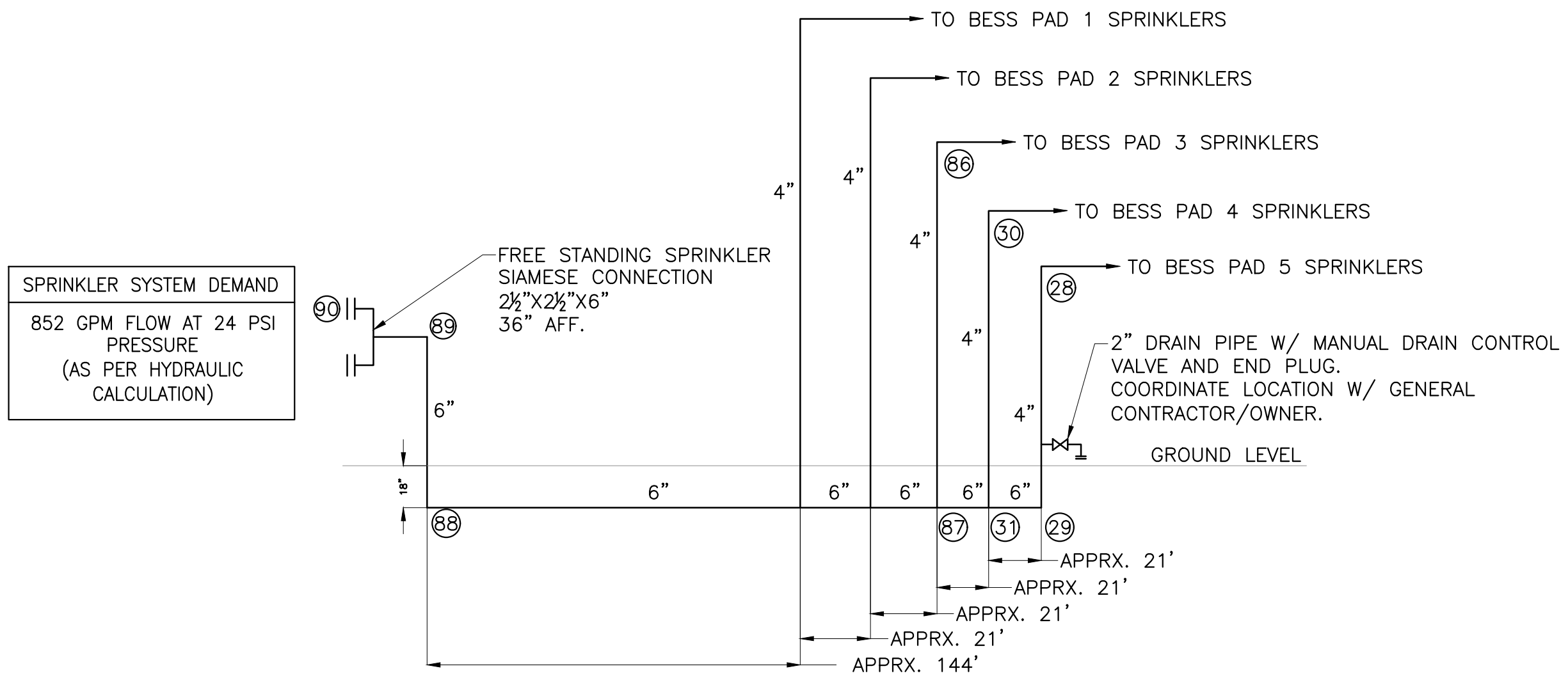
- SPRINKLER LEGEND:**
- 1** FIRE DEPARTMENT SPRINKLER CONNECTION $2\frac{1}{2}$ " x $2\frac{1}{2}$ " x 6", 36" AFF. MAINTAIN MINIMUM 10' EXPOSURE CLEARANCE BETWEEN FIRE DEPARTMENT CONNECTION & THE BESS CABINET BODY. MAINTAIN MINIMUM 3' CONNECTION CLEARANCE ON FRONT SIDE OF FIRE DEPARTMENT CONNECTION. (PROVIDE SOLID BRONZE MATERIAL FOR FIRE DEPARTMENT CONNECTION). REFER KEY PLAN ON SHEET SP-001 FOR EXACT LOCATION.
 - 2** NEW 6" DRY SPRINKLER PIPE RUNNING ABOVE GROUND. COORDINATE PIPING LAYOUT W/ SOLAR CONSULTANT.

SEAL	PROJECT NO.
	-
SCALE	AS NOTED
DRAWN BY	NYE
CHECKED BY	NYE
DATE	12/14/2023
SHEET NUMBER	SP-101.00



DESIGN AS PER NFPA 13 FOR EXTRA HAZARD OCCUPANCY. DESIGN BASED ON DRY PIPE SPRINKLER CONSISTING OF MOST REMOTE FIFTY FOUR (54) HYDRAULICALLY MOST DEMANDING STANDARD RESPONSE SPRINKLERS. DESIGN DENSITY = 0.3 GPM/SQ.FT.

1 DETAILED SPRINKLER PLAN
SCALE: 1/2" = 1'-0"



2 SPRINKLER RISER DIAGRAM
SCALE: NTS

- SPRINKLER LEGEND:**
- 1** FIRE DEPARTMENT SPRINKLER CONNECTION 2 1/2" x 2 1/2" x 6", 36" AFF. MAINTAIN MINIMUM 10' EXPOSURE CLEARANCE BETWEEN FIRE DEPARTMENT CONNECTION & THE BESS CABINET BODY. MAINTAIN MINIMUM 3' CONNECTION CLEARANCE ON FRONT SIDE OF FIRE DEPARTMENT CONNECTION. (PROVIDE SOLID BRONZE MATERIAL FOR FIRE DEPARTMENT CONNECTION). REFER KEY PLAN ON SHEET SP-001 FOR EXACT LOCATION.
 - 2** NEW 6" DRY SPRINKLER PIPE RUNNING BELOW GROUND. COORDINATE PIPING LAYOUT W/ SOLAR CONSULTANT.
 - 3** COORDINATE SPRINKLER LOCATION & PIPING W/ EQUIPMENT CONTRACTOR.
 - 4** COORDINATE WITH CABINET MANUFACTURER AND GC FOR SPRINKLER PIPING SUPPORT FROM THE CABINET. PROVIDE ADD ALTERNATE FOR ANY ADDITIONAL PIPING SUPPORTS IF REQUIRED.
 - 5** SPRINKLER PIPING AND SPRINKLER HEAD BY CABINET MANUFACTURER. COORDINATE PIPING CONNECTION WITH CABINET MANUFACTURER.
 - 6** 2" DRAIN PIPE W/ MANUAL DRAIN CONTROL VALVE WITH END PLUG (SEE SPRINKLER RISER DIAGRAM FOR DETAILS). COORDINATE LOCATION W/ GENERAL CONTRACTOR/OWNER.

HAZARD CLASSIFICATION AND DESIGN DENSITY:
AREA : BATTERY CABINET
OCCUPANCY: EXTRA HAZARDS I
MINIMUM DESIGN DENSITY: 0.30 GPM/SQ. FT.

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NY ENGINEERS
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382 NE 191ST STREET SUITE
49674, MIAMI, FL 33179
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PROJECT NAME

PHYSICAL LOCATION

DRAWING TITLE

**DETAILED SPRINKLER PLAN &
SPRINKLER RISER DIAGRAM**

SEAL

PROJECT NO.

SCALE AS NOTED

DRAWN BY NYE

CHECKED BY NYE

DATE 12/14/2023

SHEET NUMBER

SP-102.00

Fire Sprinkler Reports

Prepared By:

NY ENGINEERS

12/14/2023

General Project Data Report

General Data

Project Title:	Project File Name:
Designed By:	Date:
Code Reference:	Approving Agency:
Client Name:	Phone:
Address:	City, State Zip Code:
Company Name:	Representative:
Company Address:	City And State:
Phone:	
Building Name:	Building Owner:
Contact at Building:	Phone at Building:
Address Of Building:	City, State Zip Code:

Project Data

Description Of Hazard:	Ex. Haz. Gp. 1	Sprinkler System Type:	Dry
Design Area Of Water Application:	2500 ft ²	Maximum Area Per Sprinkler:	50 ft ²
Default Sprinkler K-Factor:	5.60 K	Default Pipe Material:	SCHED 40 WET STEEL
Inside Hose Stream Allowance:	0.00 gpm	Outside Hose Stream Allowance:	0.00 gpm
In Rack Sprinkler Allowance:	0.00 gpm		

Sprinkler Specifications

Make:	TYCO	Model:	TY325
Size:	0.50	Temperature Rating:	155 F

Water Supply Test Data

Source Of Information:		Date Of Test:	
Test Hydrant ID:			
Hydrant Elevation:	0 ft	Static Pressure:	0.00 psi
Test Flow Rate:	0.00 gpm	Test Residual Pressure:	0.00 psi
Calculated System Flow Rate:	851.91 gpm	Calculated Inflow Residual Pressure:	23.61 psi

Calculation Project Data

Calculation Mode:	Demand		
HMD Minimum Residual Pressure:	7.00 psi	Minimum Desired Flow Density:	0.30 gpm/ft ²
Number Of Active Nodes:	144		
Number Of Active Pipes:	143	Number Of Inactive Pipes:	0
Number Of Active Sprinklers:	54	Number Of Inactive Sprinklers:	0

Fire Sprinkler Input Data

Node Input Data

Node No.	Node Description Branch Description	Area Group Branch Dia. (in)	Sprinkler KFactor (K) Branch Len. (ft)	Pressure Estimate (psi) Branch Stnd Fittings	Node Elev (ft) Branch Non- Stnd Fittings (ft)	Non-Sprinkler Flow (gpm) Branch Sprk KFactor (K)
1	No Discharge ----	---- 0.000	N/A 0.0	9.18 ----	10.00 0.0	0.00 0.00
2	No Discharge ----	---- 0.000	N/A 0.0	9.29 ----	10.00 0.0	0.00 0.00
3	No Discharge ----	---- 0.000	N/A 0.0	9.18 ----	10.00 0.0	0.00 0.00
4	No Discharge ----	---- 0.000	N/A 0.0	9.19 ----	10.00 0.0	0.00 0.00
5	No Discharge ----	---- 0.000	N/A 0.0	9.30 ----	10.00 0.0	0.00 0.00
6	No Discharge ----	---- 0.000	N/A 0.0	9.19 ----	10.00 0.0	0.00 0.00
7	No Discharge ----	---- 0.000	N/A 0.0	9.22 ----	10.00 0.0	0.00 0.00
8	No Discharge ----	---- 0.000	N/A 0.0	9.34 ----	10.00 0.0	0.00 0.00
9	No Discharge ----	---- 0.000	N/A 0.0	9.22 ----	10.00 0.0	0.00 0.00
10	No Discharge ----	---- 0.000	N/A 0.0	9.30 ----	10.00 0.0	0.00 0.00
11	No Discharge ----	---- 0.000	N/A 0.0	9.41 ----	10.00 0.0	0.00 0.00
12	No Discharge ----	---- 0.000	N/A 0.0	9.30 ----	10.00 0.0	0.00 0.00
13	No Discharge ----	---- 0.000	N/A 0.0	9.43 ----	10.00 0.0	0.00 0.00
14	No Discharge ----	---- 0.000	N/A 0.0	9.54 ----	10.00 0.0	0.00 0.00
15	No Discharge ----	---- 0.000	N/A 0.0	9.43 ----	10.00 0.0	0.00 0.00
16	No Discharge ----	---- 0.000	N/A 0.0	9.62 ----	10.00 0.0	0.00 0.00
17	No Discharge ----	---- 0.000	N/A 0.0	9.74 ----	10.00 0.0	0.00 0.00
18	No Discharge ----	---- 0.000	N/A 0.0	9.62 ----	10.00 0.0	0.00 0.00

Fire Sprinkler Input Data

Node Input Data (cont'd)

Node No.	Node Description Branch Description	Area Group Branch Dia. (in)	Sprinkler KFactor (K) Branch Len. (ft)	Pressure Estimate (psi) Branch Stnd Fittings	Node Elev (ft) Branch Non- Stnd Fittings (ft)	Non-Sprinkler Flow (gpm) Branch Sprk KFactor (K)
19	No Discharge ----	---- 0.000	N/A 0.0	9.90 ----	10.00 0.0	0.00 0.00
20	No Discharge ----	---- 0.000	N/A 0.0	10.02 ----	10.00 0.0	0.00 0.00
21	No Discharge ----	---- 0.000	N/A 0.0	9.90 ----	10.00 0.0	0.00 0.00
22	No Discharge ----	---- 0.000	N/A 0.0	10.27 ----	10.00 0.0	0.00 0.00
23	No Discharge ----	---- 0.000	N/A 0.0	10.40 ----	10.00 0.0	0.00 0.00
24	No Discharge ----	---- 0.000	N/A 0.0	10.27 ----	10.00 0.0	0.00 0.00
25	No Discharge ----	---- 0.000	N/A 0.0	10.75 ----	10.00 0.0	0.00 0.00
26	No Discharge ----	---- 0.000	N/A 0.0	10.88 ----	10.00 0.0	0.00 0.00
27	No Discharge ----	---- 0.000	N/A 0.0	10.75 ----	10.00 0.0	0.00 0.00
28	No Discharge ----	---- 0.000	N/A 0.0	11.43 ----	10.00 0.0	0.00 0.00
29	No Discharge ----	---- 0.000	N/A 0.0	16.01 ----	0.50 0.0	0.00 0.00
30	No Discharge ----	---- 0.000	N/A 0.0	16.18 ----	0.50 0.0	0.00 0.00
31	No Discharge ----	---- 0.000	N/A 0.0	11.83 ----	10.00 0.0	0.00 0.00
32	No Discharge ----	---- 0.000	N/A 0.0	11.36 ----	10.00 0.0	0.00 0.00
33	No Discharge ----	---- 0.000	N/A 0.0	11.50 ----	10.00 0.0	0.00 0.00
34	No Discharge ----	---- 0.000	N/A 0.0	11.36 ----	10.00 0.0	0.00 0.00
35	No Discharge ----	---- 0.000	N/A 0.0	10.86 ----	10.00 0.0	0.00 0.00
36	No Discharge ----	---- 0.000	N/A 0.0	10.99 ----	10.00 0.0	0.00 0.00
37	No Discharge ----	---- 0.000	N/A 0.0	10.86 ----	10.00 0.0	0.00 0.00

Fire Sprinkler Input Data

Node Input Data (cont'd)

Node No.	Node Description Branch Description	Area Group Branch Dia. (in)	Sprinkler KFactor (K) Branch Len. (ft)	Pressure Estimate (psi) Branch Stnd Fittings	Node Elev (ft) Branch Non- Stnd Fittings (ft)	Non-Sprinkler Flow (gpm) Branch Sprk KFactor (K)
38	No Discharge ----	---- 0.000	N/A 0.0	10.47 ----	10.00 0.0	0.00 0.00
39	No Discharge ----	---- 0.000	N/A 0.0	10.60 ----	10.00 0.0	0.00 0.00
40	No Discharge ----	---- 0.000	N/A 0.0	10.47 ----	10.00 0.0	0.00 0.00
41	No Discharge ----	---- 0.000	N/A 0.0	10.18 ----	10.00 0.0	0.00 0.00
42	No Discharge ----	---- 0.000	N/A 0.0	10.30 ----	10.00 0.0	0.00 0.00
43	No Discharge ----	---- 0.000	N/A 0.0	10.18 ----	10.00 0.0	0.00 0.00
44	No Discharge ----	---- 0.000	N/A 0.0	9.97 ----	10.00 0.0	0.00 0.00
45	No Discharge ----	---- 0.000	N/A 0.0	10.09 ----	10.00 0.0	0.00 0.00
46	No Discharge ----	---- 0.000	N/A 0.0	9.97 ----	10.00 0.0	0.00 0.00
47	No Discharge ----	---- 0.000	N/A 0.0	9.83 ----	10.00 0.0	0.00 0.00
48	No Discharge ----	---- 0.000	N/A 0.0	9.96 ----	10.00 0.0	0.00 0.00
49	No Discharge ----	---- 0.000	N/A 0.0	9.83 ----	10.00 0.0	0.00 0.00
50	No Discharge ----	---- 0.000	N/A 0.0	9.75 ----	10.00 0.0	0.00 0.00
51	No Discharge ----	---- 0.000	N/A 0.0	9.88 ----	10.00 0.0	0.00 0.00
52	No Discharge ----	---- 0.000	N/A 0.0	9.75 ----	10.00 0.0	0.00 0.00
53	No Discharge ----	---- 0.000	N/A 0.0	9.72 ----	10.00 0.0	0.00 0.00
54	No Discharge ----	---- 0.000	N/A 0.0	9.84 ----	10.00 0.0	0.00 0.00
55	No Discharge ----	---- 0.000	N/A 0.0	9.72 ----	10.00 0.0	0.00 0.00

Fire Sprinkler Input Data

Node Input Data (cont'd)

Node No.	Node Description Branch Description	Area Group Branch Dia. (in)	Sprinkler KFactor (K) Branch Len. (ft)	Pressure Estimate (psi) Branch Stnd Fittings	Node Elev (ft) Branch Non- Stnd Fittings (ft)	Non-Sprinkler Flow (gpm) Branch Sprk KFactor (K)
56	No Discharge ----	---- 0.000	N/A 0.0	9.71 ----	10.00 0.0	0.00 0.00
57	No Discharge ----	---- 0.000	N/A 0.0	9.83 ----	10.00 0.0	0.00 0.00
58	No Discharge ----	---- 0.000	N/A 0.0	9.71 ----	10.00 0.0	0.00 0.00
59	No Discharge ----	---- 0.000	N/A 0.0	10.21 ----	10.00 0.0	0.00 0.00
60	No Discharge ----	---- 0.000	N/A 0.0	10.34 ----	10.00 0.0	0.00 0.00
61	No Discharge ----	---- 0.000	N/A 0.0	10.21 ----	10.00 0.0	0.00 0.00
62	No Discharge ----	---- 0.000	N/A 0.0	10.22 ----	10.00 0.0	0.00 0.00
63	No Discharge ----	---- 0.000	N/A 0.0	10.35 ----	10.00 0.0	0.00 0.00
64	No Discharge ----	---- 0.000	N/A 0.0	10.22 ----	10.00 0.0	0.00 0.00
65	No Discharge ----	---- 0.000	N/A 0.0	10.26 ----	10.00 0.0	0.00 0.00
66	No Discharge ----	---- 0.000	N/A 0.0	10.39 ----	10.00 0.0	0.00 0.00
67	No Discharge ----	---- 0.000	N/A 0.0	10.26 ----	10.00 0.0	0.00 0.00
68	No Discharge ----	---- 0.000	N/A 0.0	10.35 ----	10.00 0.0	0.00 0.00
69	No Discharge ----	---- 0.000	N/A 0.0	10.47 ----	10.00 0.0	0.00 0.00
70	No Discharge ----	---- 0.000	N/A 0.0	10.35 ----	10.00 0.0	0.00 0.00
71	No Discharge ----	---- 0.000	N/A 0.0	10.49 ----	10.00 0.0	0.00 0.00
72	No Discharge ----	---- 0.000	N/A 0.0	10.62 ----	10.00 0.0	0.00 0.00
73	No Discharge ----	---- 0.000	N/A 0.0	10.49 ----	10.00 0.0	0.00 0.00
74	No Discharge ----	---- 0.000	N/A 0.0	10.70 ----	10.00 0.0	0.00 0.00

Fire Sprinkler Input Data

Node Input Data (cont'd)

Node No.	Node Description Branch Description	Area Group Branch Dia. (in)	Sprinkler KFactor (K) Branch Len. (ft)	Pressure Estimate (psi) Branch Stnd Fittings	Node Elev (ft) Branch Non- Stnd Fittings (ft)	Non-Sprinkler Flow (gpm) Branch Sprk KFactor (K)
75	No Discharge ----	---- 0.000	N/A 0.0	10.84 ----	10.00 0.0	0.00 0.00
76	No Discharge ----	---- 0.000	N/A 0.0	10.70 ----	10.00 0.0	0.00 0.00
77	No Discharge ----	---- 0.000	N/A 0.0	11.01 ----	10.00 0.0	0.00 0.00
78	No Discharge ----	---- 0.000	N/A 0.0	11.14 ----	10.00 0.0	0.00 0.00
79	No Discharge ----	---- 0.000	N/A 0.0	11.01 ----	10.00 0.0	0.00 0.00
80	No Discharge ----	---- 0.000	N/A 0.0	11.42 ----	10.00 0.0	0.00 0.00
81	No Discharge ----	---- 0.000	N/A 0.0	11.56 ----	10.00 0.0	0.00 0.00
82	No Discharge ----	---- 0.000	N/A 0.0	11.42 ----	10.00 0.0	0.00 0.00
83	No Discharge ----	---- 0.000	N/A 0.0	11.94 ----	10.00 0.0	0.00 0.00
84	No Discharge ----	---- 0.000	N/A 0.0	12.09 ----	10.00 0.0	0.00 0.00
85	No Discharge ----	---- 0.000	N/A 0.0	11.94 ----	10.00 0.0	0.00 0.00
86	No Discharge ----	---- 0.000	N/A 0.0	12.43 ----	10.00 0.0	0.00 0.00
87	No Discharge ----	---- 0.000	N/A 0.0	16.80 ----	0.50 0.0	0.00 0.00
88	No Discharge ----	---- 0.000	N/A 0.0	23.86 ----	0.50 0.0	0.00 0.00
89	No Discharge ----	---- 0.000	N/A 0.0	23.21 ----	3.00 0.0	0.00 0.00
90	No Discharge ----	---- 0.000	N/A 0.0	23.61 ----	3.00 0.0	0.00 0.00
101	Sprinkler ----	---- 0.000	5.60 0.0	7.17 ----	9.00 0.0	0.00 0.00
102	Sprinkler ----	---- 0.000	5.60 0.0	7.18 ----	9.00 0.0	0.00 0.00

Fire Sprinkler Input Data

Node Input Data (cont'd)

Node No.	Node Description Branch Description	Area Group Branch Dia. (in)	Sprinkler KFactor (K) Branch Len. (ft)	Pressure Estimate (psi) Branch Stnd Fittings	Node Elev (ft) Branch Non- Stnd Fittings (ft)	Non-Sprinkler Flow (gpm) Branch Sprk KFactor (K)
103	Sprinkler ----	---- 0.000	5.60 0.0	7.21 ----	9.00 0.0	0.00 0.00
104	Sprinkler ----	---- 0.000	5.60 0.0	7.27 ----	9.00 0.0	0.00 0.00
105	Sprinkler ----	---- 0.000	5.60 0.0	7.37 ----	9.00 0.0	0.00 0.00
106	Sprinkler ----	---- 0.000	5.60 0.0	7.51 ----	9.00 0.0	0.00 0.00
107	Sprinkler ----	---- 0.000	5.60 0.0	7.73 ----	9.00 0.0	0.00 0.00
108	Sprinkler ----	---- 0.000	5.60 0.0	8.01 ----	9.00 0.0	0.00 0.00
109	Sprinkler ----	---- 0.000	5.60 0.0	8.37 ----	9.00 0.0	0.00 0.00
110	Sprinkler ----	---- 0.000	5.60 0.0	8.37 ----	9.00 0.0	0.00 0.00
111	Sprinkler ----	---- 0.000	5.60 0.0	8.01 ----	9.00 0.0	0.00 0.00
112	Sprinkler ----	---- 0.000	5.60 0.0	7.73 ----	9.00 0.0	0.00 0.00
113	Sprinkler ----	---- 0.000	5.60 0.0	7.51 ----	9.00 0.0	0.00 0.00
114	Sprinkler ----	---- 0.000	5.60 0.0	7.37 ----	9.00 0.0	0.00 0.00
115	Sprinkler ----	---- 0.000	5.60 0.0	7.27 ----	9.00 0.0	0.00 0.00
116	Sprinkler ----	---- 0.000	5.60 0.0	7.21 ----	9.00 0.0	0.00 0.00
117	Sprinkler ----	---- 0.000	5.60 0.0	7.18 ----	9.00 0.0	0.00 0.00
118	Sprinkler ----	---- 0.000	5.60 0.0	7.17 ----	9.00 0.0	0.00 0.00
119	Sprinkler ----	---- 0.000	5.60 0.0	7.58 ----	9.00 0.0	0.00 0.00
120	Sprinkler ----	---- 0.000	5.60 0.0	7.59 ----	9.00 0.0	0.00 0.00
121	Sprinkler ----	---- 0.000	5.60 0.0	7.62 ----	9.00 0.0	0.00 0.00

Fire Sprinkler Input Data

Node Input Data (cont'd)

Node No.	Node Description Branch Description	Area Group Branch Dia. (in)	Sprinkler KFactor (K) Branch Len. (ft)	Pressure Estimate (psi) Branch Stnd Fittings	Node Elev (ft) Branch Non- Stnd Fittings (ft)	Non-Sprinkler Flow (gpm) Branch Sprk KFactor (K)
122	Sprinkler ----	---- 0.000	5.60 0.0	7.68 ----	9.00 0.0	0.00 0.00
123	Sprinkler ----	---- 0.000	5.60 0.0	7.78 ----	9.00 0.0	0.00 0.00
124	Sprinkler ----	---- 0.000	5.60 0.0	7.94 ----	9.00 0.0	0.00 0.00
125	Sprinkler ----	---- 0.000	5.60 0.0	8.16 ----	9.00 0.0	0.00 0.00
126	Sprinkler ----	---- 0.000	5.60 0.0	8.46 ----	9.00 0.0	0.00 0.00
127	Sprinkler ----	---- 0.000	5.60 0.0	8.84 ----	9.00 0.0	0.00 0.00
128	Sprinkler ----	---- 0.000	5.60 0.0	8.84 ----	9.00 0.0	0.00 0.00
129	Sprinkler ----	---- 0.000	5.60 0.0	8.46 ----	9.00 0.0	0.00 0.00
130	Sprinkler ----	---- 0.000	5.60 0.0	8.16 ----	9.00 0.0	0.00 0.00
131	Sprinkler ----	---- 0.000	5.60 0.0	7.94 ----	9.00 0.0	0.00 0.00
132	Sprinkler ----	---- 0.000	5.60 0.0	7.78 ----	9.00 0.0	0.00 0.00
133	Sprinkler ----	---- 0.000	5.60 0.0	7.68 ----	9.00 0.0	0.00 0.00
134	Sprinkler ----	---- 0.000	5.60 0.0	7.62 ----	9.00 0.0	0.00 0.00
135	Sprinkler ----	---- 0.000	5.60 0.0	7.59 ----	9.00 0.0	0.00 0.00
136	Sprinkler ----	---- 0.000	5.60 0.0	7.58 ----	9.00 0.0	0.00 0.00
137	Sprinkler ----	---- 0.000	5.60 0.0	7.96 ----	9.00 0.0	0.00 0.00
138	Sprinkler ----	---- 0.000	5.60 0.0	7.97 ----	9.00 0.0	0.00 0.00
139	Sprinkler ----	---- 0.000	5.60 0.0	8.00 ----	9.00 0.0	0.00 0.00

Fire Sprinkler Input Data

Node Input Data (cont'd)

Node No.	Node Description Branch Description	Area Group Branch Dia. (in)	Sprinkler KFactor (K) Branch Len. (ft)	Pressure Estimate (psi) Branch Std Fittings	Node Elev (ft) Branch Non- Std Fittings (ft)	Non-Sprinkler Flow (gpm) Branch Sprk KFactor (K)
140	Sprinkler ----	---- 0.000	5.60 0.0	8.07 ----	9.00 0.0	0.00 0.00
141	Sprinkler ----	---- 0.000	5.60 0.0	8.17 ----	9.00 0.0	0.00 0.00
142	Sprinkler ----	---- 0.000	5.60 0.0	8.34 ----	9.00 0.0	0.00 0.00
143	Sprinkler ----	---- 0.000	5.60 0.0	8.57 ----	9.00 0.0	0.00 0.00
144	Sprinkler ----	---- 0.000	5.60 0.0	8.88 ----	9.00 0.0	0.00 0.00
145	Sprinkler ----	---- 0.000	5.60 0.0	9.29 ----	9.00 0.0	0.00 0.00
146	Sprinkler ----	---- 0.000	5.60 0.0	9.29 ----	9.00 0.0	0.00 0.00
147	Sprinkler ----	---- 0.000	5.60 0.0	8.88 ----	9.00 0.0	0.00 0.00
148	Sprinkler ----	---- 0.000	5.60 0.0	8.57 ----	9.00 0.0	0.00 0.00
149	Sprinkler ----	---- 0.000	5.60 0.0	8.34 ----	9.00 0.0	0.00 0.00
150	Sprinkler ----	---- 0.000	5.60 0.0	8.17 ----	9.00 0.0	0.00 0.00
151	Sprinkler ----	---- 0.000	5.60 0.0	8.07 ----	9.00 0.0	0.00 0.00
152	Sprinkler ----	---- 0.000	5.60 0.0	8.00 ----	9.00 0.0	0.00 0.00
153	Sprinkler ----	---- 0.000	5.60 0.0	7.97 ----	9.00 0.0	0.00 0.00
154	Sprinkler ----	---- 0.000	5.60 0.0	7.96 ----	9.00 0.0	0.00 0.00

Fire Sprinkler Input Data

Pipe Input Data

Beg. Node	End. Node	Pipe Description	Nominal Diameter (inch)	Type Group	Fitting Data	Nominal Length (feet)	Fitting Length (feet)	Total Length (feet)	CFactor (gpm/inch-psi)
101	1	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
1	2	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
2	3	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
3	118	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
2	5	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
5	4	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
4	102	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
5	6	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
6	117	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
5	8	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
8	7	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
7	103	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
8	9	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
9	116	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
8	11	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
11	10	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
10	104	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
11	12	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
12	115	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
11	14	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
14	13	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
13	105	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
14	15	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
15	114	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
14	17	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
17	16	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
16	106	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
17	18	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120

Fire Sprinkler Input Data

Pipe Input Data (cont'd)

Beg. Node	End. Node	Pipe Description	Nominal Diameter (inch)	Type Group	Fitting Data	Nominal Length (feet)	Fitting Length (feet)	Total Length (feet)	CFactor (gpm/inch-psi)
18	113	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
17	20	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
20	19	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
19	107	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
20	21	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
21	112	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
20	23	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
23	22	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
22	108	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
23	24	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
24	111	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
23	26	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
26	25	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
25	109	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
26	27	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
27	110	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
26	28	SCHED 40 WET STEEL	4.000	0	T	3.00	20.00	23.00	120
28	29	SCHED 40 WET STEEL	4.000	0	E	9.50	10.00	19.50	120
29	30	SCHED 40 WET STEEL	6.000	0	T	21.00	30.00	51.00	120
30	31	SCHED 40 WET STEEL	4.000	0		9.50	0.00	9.50	120
31	33	SCHED 40 WET STEEL	4.000	0	E	3.00	10.00	13.00	120
33	34	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
34	127	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
33	32	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
32	128	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
33	36	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
36	35	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
35	126	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
36	37	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120

Fire Sprinkler Input Data

Pipe Input Data (cont'd)

Beg. Node	End. Node	Pipe Description	Nominal Diameter (inch)	Type Group	Fitting Data	Nominal Length (feet)	Fitting Length (feet)	Total Length (feet)	CFactor (gpm/inch-psi)
37	129	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
36	39	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
39	38	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
38	125	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
39	40	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
40	130	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
39	42	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
42	41	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
41	124	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
42	43	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
43	131	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
42	45	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
45	44	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
44	123	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
45	46	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
46	132	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
45	48	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
48	47	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
47	122	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
48	49	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
49	133	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
48	51	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
51	50	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
50	121	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
51	52	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
52	134	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
51	54	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
54	53	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120

Fire Sprinkler Input Data

Pipe Input Data (cont'd)

Beg. Node	End. Node	Pipe Description	Nominal Diameter (inch)	Type Group	Fitting Data	Nominal Length (feet)	Fitting Length (feet)	Total Length (feet)	CFactor (gpm/inch-psi)
53	120	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
54	55	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
55	135	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
54	57	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
57	56	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
56	119	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
57	58	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
58	136	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
30	87	SCHED 40 WET STEEL	6.000	0	T	21.00	30.00	51.00	120
87	86	SCHED 40 WET STEEL	4.000	0		9.50	0.00	9.50	120
86	84	SCHED 40 WET STEEL	4.000	0	E	3.00	10.00	13.00	120
84	85	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
85	146	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
84	83	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
83	145	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
84	81	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
81	80	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
80	144	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
81	82	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
82	147	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
81	78	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
78	77	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
77	143	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
78	79	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
79	148	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
78	75	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
75	74	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
74	142	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
75	76	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120

Fire Sprinkler Input Data

Pipe Input Data (cont'd)

Beg. Node	End. Node	Pipe Description	Nominal Diameter (inch)	Type Group	Fitting Data	Nominal Length (feet)	Fitting Length (feet)	Total Length (feet)	CFactor (gpm/inch-psi)
76	149	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
75	72	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
72	71	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
71	141	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
72	73	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
73	150	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
72	69	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
69	68	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
68	140	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
69	70	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
70	151	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
69	66	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
66	65	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
65	139	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
66	67	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
67	152	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
66	63	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
63	62	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
62	138	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
63	64	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
64	153	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
63	60	SCHED 40 WET STEEL	4.000	0	T	5.40	20.00	25.40	120
60	61	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
61	154	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
60	59	SCHED 40 WET STEEL	1.000	0		1.50	0.00	1.50	120
59	137	SCHED 40 WET STEEL	0.500	0	E	1.50	1.00	2.50	120
87	88	SCHED 40 WET STEEL	6.000	0	6E	186.00	84.00	270.00	120
88	89	SCHED 40 WET STEEL	6.000	0	E	2.50	14.00	16.50	120

Fire Sprinkler Input Data

Pipe Input Data (cont'd)

Beg. Node	End. Node	Pipe Description	Nominal Diameter (inch)	Type Group	Fitting Data	Nominal Length (feet)	Fitting Length (feet)	Total Length (feet)	CFactor (gpm/inch-psi)
89	90	SCHED 40 WET STEEL	6.000	0	E	1.00	14.00	15.00	120

Fire Sprinkler Output Data

Overall Node Groupings Output Data

Pipe Segment Beg. Node	End. Node	Pipe Type Group	Pipe Flow Rate (gpm)	Sprinkler Flow At Beg. Node (gpm)	Non-Sprinkler Flow Out (+) (gpm)	In (-) (gpm)	Beg. Node Residual Pressure (psi)	Imbalance Flow At Beg. Node (gpm)
1	101	0	14.99	0.00	0.00	0.00	9.18	-0.00473
1	2	0	-15.00					
2	1	0	15.00	0.00	0.00	0.00	9.29	0.00000
2	3	0	14.99					
2	5	0	-29.99					
3	2	0	-14.99	0.00	0.00	0.00	9.18	0.00000
3	118	0	14.99					
4	5	0	-15.00	0.00	0.00	0.00	9.19	0.00000
4	102	0	15.00					
5	2	0	29.99	0.00	0.00	0.00	9.30	-0.00001
5	4	0	15.00					
5	6	0	15.00					
5	8	0	-60.00					
6	5	0	-15.00	0.00	0.00	0.00	9.19	0.00000
6	117	0	15.00					
7	8	0	-15.03	0.00	0.00	0.00	9.22	0.00000
7	103	0	15.03					
8	5	0	60.00	0.00	0.00	0.00	9.34	0.00000
8	7	0	15.03					
8	9	0	15.03					
8	11	0	-90.06					
9	8	0	-15.03	0.00	0.00	0.00	9.22	0.00000
9	116	0	15.03					
10	11	0	-15.09	0.00	0.00	0.00	9.30	0.00000
10	104	0	15.09					
11	8	0	90.06	0.00	0.00	0.00	9.41	0.00000
11	10	0	15.09					
11	12	0	15.09					
11	14	0	-120.24					
12	11	0	-15.09	0.00	0.00	0.00	9.30	0.00000
12	115	0	15.09					
13	14	0	-15.19	0.00	0.00	0.00	9.43	0.00000
13	105	0	15.19					
14	11	0	120.24	0.00	0.00	0.00	9.54	0.00000
14	13	0	15.19					
14	15	0	15.19					
14	17	0	-150.62					
15	14	0	-15.19	0.00	0.00	0.00	9.43	0.00000
15	114	0	15.19					
16	17	0	-15.35	0.00	0.00	0.00	9.62	0.00000
16	106	0	15.35					

Fire Sprinkler Output Data

Overall Node Groupings Output Data (cont'd)

Pipe Segment Beg. Node	End. Node	Pipe Type Group	Pipe Flow Rate (gpm)	Sprinkler Flow At Beg. Node (gpm)	Non-Sprinkler Flow Out (+) (gpm)	In (-) (gpm)	Beg. Node Residual Pressure (psi)	Imbalance Flow At Beg. Node (gpm)
17	14	0	150.62	0.00	0.00	0.00	9.74	0.00000
17	16	0	15.35					
17	18	0	15.35					
17	20	0	-181.31					
18	17	0	-15.35	0.00	0.00	0.00	9.62	0.00000
18	113	0	15.35					
19	20	0	-15.56	0.00	0.00	0.00	9.90	0.00000
19	107	0	15.56					
20	17	0	181.31	0.00	0.00	0.00	10.02	0.00000
20	19	0	15.56					
20	21	0	15.56					
20	23	0	-212.43					
21	20	0	-15.56	0.00	0.00	0.00	9.90	0.00000
21	112	0	15.56					
22	23	0	-15.84	0.00	0.00	0.00	10.27	0.00000
22	108	0	15.84					
23	20	0	212.43	0.00	0.00	0.00	10.40	0.00000
23	22	0	15.84					
23	24	0	15.84					
23	26	0	-244.11					
24	23	0	-15.84	0.00	0.00	0.00	10.27	0.00000
24	111	0	15.84					
25	26	0	-16.20	0.00	0.00	0.00	10.75	0.00000
25	109	0	16.20					
26	23	0	244.11	0.00	0.00	0.00	10.88	0.00000
26	25	0	16.20					
26	27	0	16.20					
26	28	0	-276.50					
27	26	0	-16.20	0.00	0.00	0.00	10.75	0.00000
27	110	0	16.20					
28	26	0	276.50	0.00	0.00	0.00	11.43	0.00000
28	29	0	-276.50					
29	28	0	276.50	0.00	0.00	0.00	16.01	0.00000
29	30	0	-276.50					
30	29	0	276.50	0.00	0.00	0.00	16.18	0.00000
30	31	0	284.15					
30	87	0	-560.66					
31	30	0	-284.15	0.00	0.00	0.00	11.83	0.00000
31	33	0	284.15					
32	33	0	-16.64	0.00	0.00	0.00	11.36	0.00000
32	128	0	16.64					

Fire Sprinkler Output Data

Overall Node Groupings Output Data (cont'd)

Pipe Segment Beg. Node	End. Node	Pipe Type Group	Pipe Flow Rate (gpm)	Sprinkler Flow At Beg. Node (gpm)	Non-Sprinkler Flow Out (+) (gpm)	In (-) (gpm)	Beg. Node Residual Pressure (psi)	Imbalance Flow At Beg. Node (gpm)
33	31	0	-284.15	0.00	0.00	0.00	11.50	0.00000
33	32	0	16.64					
33	34	0	16.64					
33	36	0	250.87					
34	33	0	-16.64	0.00	0.00	0.00	11.36	0.00000
34	127	0	16.64					
35	36	0	-16.28	0.00	0.00	0.00	10.86	0.00000
35	126	0	16.28					
36	33	0	-250.87	0.00	0.00	0.00	10.99	0.00000
36	35	0	16.28					
36	37	0	16.28					
36	39	0	218.31					
37	36	0	-16.28	0.00	0.00	0.00	10.86	0.00000
37	129	0	16.28					
38	39	0	-15.99	0.00	0.00	0.00	10.47	0.00000
38	125	0	15.99					
39	36	0	-218.31	0.00	0.00	0.00	10.60	0.00000
39	38	0	15.99					
39	40	0	15.99					
39	42	0	186.34					
40	39	0	-15.99	0.00	0.00	0.00	10.47	0.00000
40	130	0	15.99					
41	42	0	-15.77	0.00	0.00	0.00	10.18	0.00000
41	124	0	15.77					
42	39	0	-186.34	0.00	0.00	0.00	10.30	0.00000
42	41	0	15.77					
42	43	0	15.77					
42	45	0	154.80					
43	42	0	-15.77	0.00	0.00	0.00	10.18	0.00000
43	131	0	15.77					
44	45	0	-15.61	0.00	0.00	0.00	9.97	0.00000
44	123	0	15.61					
45	42	0	-154.80	0.00	0.00	0.00	10.09	0.00000
45	44	0	15.61					
45	46	0	15.61					
45	48	0	123.57					
46	45	0	-15.61	0.00	0.00	0.00	9.97	0.00000
46	132	0	15.61					
47	48	0	-15.51	0.00	0.00	0.00	9.83	0.00000
47	122	0	15.51					
48	45	0	-123.57	0.00	0.00	0.00	9.96	0.00001

Fire Sprinkler Output Data

Overall Node Groupings Output Data (cont'd)

Pipe Segment		Pipe	Pipe	Sprinkler Flow	Non-Sprinkler Flow		Beg. Node	Imbalance
Beg. Node	End. Node	Type Group	Flow Rate (gpm)	At Beg. Node (gpm)	Out (+) (gpm)	In (-) (gpm)	Residual Pressure (psi)	Flow At Beg. Node (gpm)
48	47	0	15.51					
48	49	0	15.51					
48	51	0	92.55					
<hr/>								
49	48	0	-15.51	0.00	0.00	0.00	9.83	0.00000
49	133	0	15.51					
<hr/>								
50	51	0	-15.45	0.00	0.00	0.00	9.75	0.00000
50	121	0	15.45					
<hr/>								
51	48	0	-92.55	0.00	0.00	0.00	9.88	-0.00001
51	50	0	15.45					
51	52	0	15.45					
51	54	0	61.66					
<hr/>								
52	51	0	-15.45	0.00	0.00	0.00	9.75	0.00000
52	134	0	15.45					
<hr/>								
53	54	0	-15.42	0.00	0.00	0.00	9.72	0.00000
53	120	0	15.42					
<hr/>								
54	51	0	-61.66	0.00	0.00	0.00	9.84	0.00001
54	53	0	15.42					
54	55	0	15.42					
54	57	0	30.82					
<hr/>								
55	54	0	-15.42	0.00	0.00	0.00	9.72	0.00000
55	135	0	15.42					
<hr/>								
56	57	0	-15.41	0.00	0.00	0.00	9.71	0.00000
56	119	0	15.41					
<hr/>								
57	54	0	-30.82	0.00	0.00	0.00	9.83	0.00000
57	56	0	15.41					
57	58	0	15.41					
<hr/>								
58	57	0	-15.41	0.00	0.00	0.00	9.71	0.00000
58	136	0	15.41					
<hr/>								
59	60	0	-15.80	0.00	0.00	0.00	10.21	0.00000
59	137	0	15.80					
<hr/>								
60	59	0	15.80	0.00	0.00	0.00	10.34	0.00000
60	63	0	-31.59					
60	61	0	15.80					
<hr/>								
61	60	0	-15.80	0.00	0.00	0.00	10.21	0.00000
61	154	0	15.80					
<hr/>								
62	63	0	-15.80	0.00	0.00	0.00	10.22	0.00000
62	138	0	15.80					
<hr/>								
63	60	0	31.59	0.00	0.00	0.00	10.35	0.00000
63	62	0	15.80					
63	66	0	-63.20					
63	64	0	15.80					

Fire Sprinkler Output Data

Overall Node Groupings Output Data (cont'd)

Pipe Segment Beg. Node	End. Node	Pipe Type Group	Pipe Flow Rate (gpm)	Sprinkler Flow At Beg. Node (gpm)	Non-Sprinkler Flow Out (+) (gpm)	In (-) (gpm)	Beg. Node Residual Pressure (psi)	Imbalance Flow At Beg. Node (gpm)
64	63	0	-15.80	0.00	0.00	0.00	10.22	0.00000
64	153	0	15.80					
65	66	0	-15.83	0.00	0.00	0.00	10.26	0.00000
65	139	0	15.83					
66	63	0	63.20	0.00	0.00	0.00	10.39	0.00000
66	65	0	15.83					
66	69	0	-94.87					
66	67	0	15.83					
67	66	0	-15.83	0.00	0.00	0.00	10.26	0.00000
67	152	0	15.83					
68	69	0	-15.90	0.00	0.00	0.00	10.35	0.00000
68	140	0	15.90					
69	66	0	94.87	0.00	0.00	0.00	10.47	0.00000
69	68	0	15.90					
69	72	0	-126.67					
69	70	0	15.90					
70	69	0	-15.90	0.00	0.00	0.00	10.35	0.00000
70	151	0	15.90					
71	72	0	-16.00	0.00	0.00	0.00	10.49	0.00000
71	141	0	16.00					
72	69	0	126.67	0.00	0.00	0.00	10.62	0.00000
72	71	0	16.00					
72	75	0	-158.67					
72	73	0	16.00					
73	72	0	-16.00	0.00	0.00	0.00	10.49	0.00000
73	150	0	16.00					
74	75	0	-16.16	0.00	0.00	0.00	10.70	0.00000
74	142	0	16.16					
75	72	0	158.67	0.00	0.00	0.00	10.84	0.00000
75	74	0	16.16					
75	78	0	-191.00					
75	76	0	16.16					
76	75	0	-16.16	0.00	0.00	0.00	10.70	0.00000
76	149	0	16.16					
77	78	0	-16.39	0.00	0.00	0.00	11.01	0.00000
77	143	0	16.39					
78	75	0	191.00	0.00	0.00	0.00	11.14	0.00000
78	77	0	16.39					
78	81	0	-223.78					
78	79	0	16.39					
79	78	0	-16.39	0.00	0.00	0.00	11.01	0.00000
79	148	0	16.39					

Fire Sprinkler Output Data

Overall Node Groupings Output Data (cont'd)

Pipe Segment Beg. Node	End. Node	Pipe Type Group	Pipe Flow Rate (gpm)	Sprinkler Flow At Beg. Node (gpm)	Non-Sprinkler Flow Out (+) (gpm)	In (-) (gpm)	Beg. Node Residual Pressure (psi)	Imbalance Flow At Beg. Node (gpm)
80	81	0	-16.68	0.00	0.00	0.00	11.42	0.00000
80	144	0	16.68					
81	78	0	223.78	0.00	0.00	0.00	11.56	0.00000
81	80	0	16.68					
81	84	0	-257.14					
81	82	0	16.68					
82	81	0	-16.68	0.00	0.00	0.00	11.42	0.00000
82	147	0	16.68					
83	84	0	-17.06	0.00	0.00	0.00	11.94	0.00000
83	145	0	17.06					
84	81	0	257.14	0.00	0.00	0.00	12.09	0.00000
84	83	0	17.06					
84	86	0	-291.25					
84	85	0	17.06					
85	84	0	-17.06	0.00	0.00	0.00	11.94	0.00000
85	146	0	17.06					
86	84	0	291.25	0.00	0.00	0.00	12.43	0.00000
86	87	0	-291.25					
87	30	0	560.66	0.00	0.00	0.00	16.80	0.00000
87	86	0	291.25					
87	88	0	-851.91					
88	87	0	851.91	0.00	0.00	0.00	23.86	-0.00001
88	89	0	-851.91					
89	88	0	851.91	0.00	0.00	0.00	23.21	0.00001
89	90	0	-851.91					
90	89	0	851.91	0.00	0.00	-851.91	23.61	
101	1	0	-14.99	15.00	0.00	0.00	7.17	0.00616
102	4	0	-15.00	15.01	0.00	0.00	7.18	0.00552
103	7	0	-15.03	15.04	0.00	0.00	7.21	0.00556
104	10	0	-15.09	15.10	0.00	0.00	7.27	0.00566
105	13	0	-15.19	15.20	0.00	0.00	7.37	0.00582
106	16	0	-15.35	15.35	0.00	0.00	7.51	0.00606
107	19	0	-15.56	15.56	0.00	0.00	7.73	0.00641
108	22	0	-15.84	15.85	0.00	0.00	8.01	0.00688
109	25	0	-16.20	16.20	0.00	0.00	8.37	0.00747
110	27	0	-16.20	16.20	0.00	0.00	8.37	0.00747

Fire Sprinkler Output Data

Overall Node Groupings Output Data (cont'd)

Pipe Segment Beg. Node	End. Node	Pipe Type Group	Pipe Flow Rate (gpm)	Sprinkler Flow At Beg. Node (gpm)	Non-Sprinkler Flow Out (+) (gpm)	In (-) (gpm)	Beg. Node Residual Pressure (psi)	Imbalance Flow At Beg. Node (gpm)
111	24	0	-15.84	15.85	0.00	0.00	8.01	0.00688
112	21	0	-15.56	15.56	0.00	0.00	7.73	0.00641
113	18	0	-15.35	15.35	0.00	0.00	7.51	0.00606
114	15	0	-15.19	15.20	0.00	0.00	7.37	0.00582
115	12	0	-15.09	15.10	0.00	0.00	7.27	0.00566
116	9	0	-15.03	15.04	0.00	0.00	7.21	0.00556
117	6	0	-15.00	15.01	0.00	0.00	7.18	0.00552
118	3	0	-14.99	15.00	0.00	0.00	7.17	0.00552
119	56	0	-15.41	15.42	0.00	0.00	7.58	0.00593
120	53	0	-15.42	15.42	0.00	0.00	7.59	0.00595
121	50	0	-15.45	15.45	0.00	0.00	7.62	0.00600
122	47	0	-15.51	15.51	0.00	0.00	7.68	0.00611
123	44	0	-15.61	15.62	0.00	0.00	7.78	0.00630
124	41	0	-15.77	15.78	0.00	0.00	7.94	0.00658
125	38	0	-15.99	16.00	0.00	0.00	8.16	0.00698
126	35	0	-16.28	16.28	0.00	0.00	8.46	0.00750
127	34	0	-16.64	16.65	0.00	0.00	8.84	0.00816
128	32	0	-16.64	16.65	0.00	0.00	8.84	0.00816
129	37	0	-16.28	16.28	0.00	0.00	8.46	0.00750
130	40	0	-15.99	16.00	0.00	0.00	8.16	0.00698
131	43	0	-15.77	15.78	0.00	0.00	7.94	0.00658
132	46	0	-15.61	15.62	0.00	0.00	7.78	0.00630
133	49	0	-15.51	15.51	0.00	0.00	7.68	0.00611
134	52	0	-15.45	15.45	0.00	0.00	7.62	0.00600
135	55	0	-15.42	15.42	0.00	0.00	7.59	0.00595
136	58	0	-15.41	15.42	0.00	0.00	7.58	0.00593
137	59	0	-15.80	15.80	0.00	0.00	7.96	0.00647
138	62	0	-15.80	15.81	0.00	0.00	7.97	0.00649

Fire Sprinkler Output Data

Overall Node Groupings Output Data (cont'd)

Pipe Segment Beg. Node	End. Node	Pipe Type Group	Pipe Flow Rate (gpm)	Sprinkler Flow At Beg. Node (gpm)	Non-Sprinkler Flow Out (+) (gpm)	In (-) (gpm)	Beg. Node Residual Pressure (psi)	Imbalance Flow At Beg. Node (gpm)
139	65	0	-15.83	15.84	0.00	0.00	8.00	0.00655
140	68	0	-15.90	15.90	0.00	0.00	8.07	0.00666
141	71	0	-16.00	16.01	0.00	0.00	8.17	0.00686
142	74	0	-16.16	16.17	0.00	0.00	8.34	0.00716
143	77	0	-16.39	16.39	0.00	0.00	8.57	0.00758
144	80	0	-16.68	16.69	0.00	0.00	8.88	0.00813
145	83	0	-17.06	17.06	0.00	0.00	9.29	0.00883
146	85	0	-17.06	17.06	0.00	0.00	9.29	0.00883
147	82	0	-16.68	16.69	0.00	0.00	8.88	0.00813
148	79	0	-16.39	16.39	0.00	0.00	8.57	0.00758
149	76	0	-16.16	16.17	0.00	0.00	8.34	0.00716
150	73	0	-16.00	16.01	0.00	0.00	8.17	0.00686
151	70	0	-15.90	15.90	0.00	0.00	8.07	0.00666
152	67	0	-15.83	15.84	0.00	0.00	8.00	0.00655
153	64	0	-15.80	15.81	0.00	0.00	7.97	0.00649
154	61	0	-15.80	15.80	0.00	0.00	7.96	0.00647

Fire Sprinkler Output Data

Overall Pipe Output Data

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
101	5.60	9.00	15.00	7.17	0.50	15.00	0.97386	1.50	2.435
1	0.00	10.00	0.00	9.18	0.622	14.99	E	1.00	-0.433
	SCHED 40 WET STEEL				120	15.83	0	2.50	2.002
1	0.00	10.00	0.00	9.18	1.00	0.00	0.07644	1.50	0.115
2	0.00	10.00	0.00	9.29	1.049	15.00	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.57	0	1.50	0.115
2	0.00	10.00	0.00	9.29	1.00	0.00	0.07640	1.50	0.115
3	0.00	10.00	0.00	9.18	1.049	14.99	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.57	0	1.50	0.115
3	0.00	10.00	0.00	9.18	0.50	15.00	0.97388	1.50	2.435
118	5.60	9.00	15.00	7.17	0.622	14.99	E	1.00	-0.433
	SCHED 40 WET STEEL				120	15.83	0	2.50	2.002
4	0.00	10.00	0.00	9.19	0.50	15.01	0.97487	1.50	2.437
102	5.60	9.00	15.01	7.18	0.622	15.00	E	1.00	-0.433
	SCHED 40 WET STEEL				120	15.84	0	2.50	2.004
2	0.00	10.00	0.00	9.29	4.00	0.00	0.00039	5.40	0.010
5	0.00	10.00	0.00	9.30	4.026	29.99	T	20.00	0.000
	SCHED 40 WET STEEL				120	0.76	0	25.40	0.010
5	0.00	10.00	0.00	9.30	1.00	0.00	0.07648	1.50	0.115
4	0.00	10.00	0.00	9.19	1.049	15.00	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.57	0	1.50	0.115
5	0.00	10.00	0.00	9.30	1.00	0.00	0.07648	1.50	0.115
6	0.00	10.00	0.00	9.19	1.049	15.00	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.57	0	1.50	0.115
6	0.00	10.00	0.00	9.19	0.50	15.01	0.97487	1.50	2.437
117	5.60	9.00	15.01	7.18	0.622	15.00	E	1.00	-0.433
	SCHED 40 WET STEEL				120	15.84	0	2.50	2.004
7	0.00	10.00	0.00	9.22	0.50	15.04	0.97828	1.50	2.446
103	5.60	9.00	15.04	7.21	0.622	15.03	E	1.00	-0.433
	SCHED 40 WET STEEL				120	15.87	0	2.50	2.013
5	0.00	10.00	0.00	9.30	4.00	0.00	0.00142	5.40	0.036
8	0.00	10.00	0.00	9.34	4.026	60.00	T	20.00	0.000
	SCHED 40 WET STEEL				120	1.51	0	25.40	0.036
8	0.00	10.00	0.00	9.34	1.00	0.00	0.07674	1.50	0.115
7	0.00	10.00	0.00	9.22	1.049	15.03	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.58	0	1.50	0.115
8	0.00	10.00	0.00	9.34	1.00	0.00	0.07674	1.50	0.115
9	0.00	10.00	0.00	9.22	1.049	15.03	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.58	0	1.50	0.115

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
9	0.00	10.00	0.00	9.22	0.50	15.04	0.97828	1.50	2.446
116	5.60	9.00	15.04	7.21	0.622	15.03	E	1.00	-0.433
	SCHED 40 WET STEEL				120	15.87	0	2.50	2.013
10	0.00	10.00	0.00	9.30	0.50	15.10	0.98550	1.50	2.464
104	5.60	9.00	15.10	7.27	0.622	15.09	E	1.00	-0.433
	SCHED 40 WET STEEL				120	15.93	0	2.50	2.031
8	0.00	10.00	0.00	9.34	4.00	0.00	0.00301	5.40	0.077
11	0.00	10.00	0.00	9.41	4.026	90.06	T	20.00	0.000
	SCHED 40 WET STEEL				120	2.27	0	25.40	0.077
11	0.00	10.00	0.00	9.41	1.00	0.00	0.07731	1.50	0.116
10	0.00	10.00	0.00	9.30	1.049	15.09	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.60	0	1.50	0.116
11	0.00	10.00	0.00	9.41	1.00	0.00	0.07731	1.50	0.116
12	0.00	10.00	0.00	9.30	1.049	15.09	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.60	0	1.50	0.116
12	0.00	10.00	0.00	9.30	0.50	15.10	0.98550	1.50	2.464
115	5.60	9.00	15.10	7.27	0.622	15.09	E	1.00	-0.433
	SCHED 40 WET STEEL				120	15.93	0	2.50	2.031
13	0.00	10.00	0.00	9.43	0.50	15.20	0.99782	1.50	2.495
105	5.60	9.00	15.20	7.37	0.622	15.19	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.04	0	2.50	2.062
11	0.00	10.00	0.00	9.41	4.00	0.00	0.00514	5.40	0.131
14	0.00	10.00	0.00	9.54	4.026	120.24	T	20.00	0.000
	SCHED 40 WET STEEL				120	3.03	0	25.40	0.131
14	0.00	10.00	0.00	9.54	1.00	0.00	0.07828	1.50	0.117
13	0.00	10.00	0.00	9.43	1.049	15.19	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.64	0	1.50	0.117
14	0.00	10.00	0.00	9.54	1.00	0.00	0.07828	1.50	0.117
15	0.00	10.00	0.00	9.43	1.049	15.19	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.64	0	1.50	0.117
15	0.00	10.00	0.00	9.43	0.50	15.20	0.99782	1.50	2.495
114	5.60	9.00	15.20	7.37	0.622	15.19	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.04	0	2.50	2.062
16	0.00	10.00	0.00	9.62	0.50	15.35	1.01650	1.50	2.541
106	5.60	9.00	15.35	7.51	0.622	15.35	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.20	0	2.50	2.108
14	0.00	10.00	0.00	9.54	4.00	0.00	0.00780	5.40	0.198
17	0.00	10.00	0.00	9.74	4.026	150.62	T	20.00	0.000
	SCHED 40 WET STEEL				120	3.80	0	25.40	0.198

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
17	0.00	10.00	0.00	9.74	1.00	0.00	0.07974	1.50	0.120
16	0.00	10.00	0.00	9.62	1.049	15.35	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.70	0	1.50	0.120
17	0.00	10.00	0.00	9.74	1.00	0.00	0.07974	1.50	0.120
18	0.00	10.00	0.00	9.62	1.049	15.35	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.70	0	1.50	0.120
18	0.00	10.00	0.00	9.62	0.50	15.35	1.01650	1.50	2.541
113	5.60	9.00	15.35	7.51	0.622	15.35	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.20	0	2.50	2.108
19	0.00	10.00	0.00	9.90	0.50	15.56	1.04279	1.50	2.607
107	5.60	9.00	15.56	7.73	0.622	15.56	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.43	0	2.50	2.174
17	0.00	10.00	0.00	9.74	4.00	0.00	0.01100	5.40	0.279
20	0.00	10.00	0.00	10.02	4.026	181.31	T	20.00	0.000
	SCHED 40 WET STEEL				120	4.57	0	25.40	0.279
20	0.00	10.00	0.00	10.02	1.00	0.00	0.08180	1.50	0.123
19	0.00	10.00	0.00	9.90	1.049	15.56	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.78	0	1.50	0.123
20	0.00	10.00	0.00	10.02	1.00	0.00	0.08180	1.50	0.123
21	0.00	10.00	0.00	9.90	1.049	15.56	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.78	0	1.50	0.123
21	0.00	10.00	0.00	9.90	0.50	15.56	1.04279	1.50	2.607
112	5.60	9.00	15.56	7.73	0.622	15.56	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.43	0	2.50	2.174
22	0.00	10.00	0.00	10.27	0.50	15.85	1.07796	1.50	2.695
108	5.60	9.00	15.85	8.01	0.622	15.84	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.72	0	2.50	2.262
20	0.00	10.00	0.00	10.02	4.00	0.00	0.01474	5.40	0.374
23	0.00	10.00	0.00	10.40	4.026	212.43	T	20.00	0.000
	SCHED 40 WET STEEL				120	5.35	0	25.40	0.374
23	0.00	10.00	0.00	10.40	1.00	0.00	0.08456	1.50	0.127
22	0.00	10.00	0.00	10.27	1.049	15.84	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.88	0	1.50	0.127
23	0.00	10.00	0.00	10.40	1.00	0.00	0.08456	1.50	0.127
24	0.00	10.00	0.00	10.27	1.049	15.84	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.88	0	1.50	0.127
24	0.00	10.00	0.00	10.27	0.50	15.85	1.07796	1.50	2.695
111	5.60	9.00	15.85	8.01	0.622	15.84	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.72	0	2.50	2.262

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
25	0.00	10.00	0.00	10.75	0.50	16.20	1.12334	1.50	2.808
109	5.60	9.00	16.20	8.37	0.622	16.20	E	1.00	-0.433
SCHED 40 WET STEEL					120	17.10	0	2.50	2.375
23	0.00	10.00	0.00	10.40	4.00	0.00	0.01907	5.40	0.484
26	0.00	10.00	0.00	10.88	4.026	244.11	T	20.00	0.000
SCHED 40 WET STEEL					120	6.15	0	25.40	0.484
26	0.00	10.00	0.00	10.88	1.00	0.00	0.08812	1.50	0.132
25	0.00	10.00	0.00	10.75	1.049	16.20	----	0.00	0.000
SCHED 40 WET STEEL					120	6.01	0	1.50	0.132
26	0.00	10.00	0.00	10.88	1.00	0.00	0.08812	1.50	0.132
27	0.00	10.00	0.00	10.75	1.049	16.20	----	0.00	0.000
SCHED 40 WET STEEL					120	6.01	0	1.50	0.132
27	0.00	10.00	0.00	10.75	0.50	16.20	1.12334	1.50	2.808
110	5.60	9.00	16.20	8.37	0.622	16.20	E	1.00	-0.433
SCHED 40 WET STEEL					120	17.10	0	2.50	2.375
26	0.00	10.00	0.00	10.88	4.00	0.00	0.02401	3.00	0.552
28	0.00	10.00	0.00	11.43	4.026	276.50	T	20.00	0.000
SCHED 40 WET STEEL					120	6.97	0	23.00	0.552
28	0.00	10.00	0.00	11.43	4.00	0.00	0.02401	9.50	0.468
29	0.00	0.50	0.00	16.01	4.026	276.50	E	10.00	4.114
SCHED 40 WET STEEL					120	6.97	0	19.50	4.582
29	0.00	0.50	0.00	16.01	6.00	0.00	0.00326	21.00	0.166
30	0.00	0.50	0.00	16.18	6.065	276.50	T	30.00	0.000
SCHED 40 WET STEEL					120	3.07	0	51.00	0.166
30	0.00	0.50	0.00	16.18	4.00	0.00	0.02525	9.50	0.240
31	0.00	10.00	0.00	11.83	4.026	284.15	----	0.00	4.114
SCHED 40 WET STEEL					120	7.16	0	9.50	4.353
31	0.00	10.00	0.00	11.83	4.00	0.00	0.02525	3.00	0.328
33	0.00	10.00	0.00	11.50	4.026	284.15	E	10.00	0.000
SCHED 40 WET STEEL					120	7.16	0	13.00	0.328
32	0.00	10.00	0.00	11.36	0.50	16.65	1.18117	1.50	2.953
128	5.60	9.00	16.65	8.84	0.622	16.64	E	1.00	-0.433
SCHED 40 WET STEEL					120	17.57	0	2.50	2.520
33	0.00	10.00	0.00	11.50	1.00	0.00	0.09266	1.50	0.139
32	0.00	10.00	0.00	11.36	1.049	16.64	----	0.00	0.000
SCHED 40 WET STEEL					120	6.18	0	1.50	0.139
33	0.00	10.00	0.00	11.50	1.00	0.00	0.09266	1.50	0.139
34	0.00	10.00	0.00	11.36	1.049	16.64	----	0.00	0.000
SCHED 40 WET STEEL					120	6.18	0	1.50	0.139

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
33	0.00	10.00	0.00	11.50	4.00	0.00	0.02005	5.40	0.509
36	0.00	10.00	0.00	10.99	4.026	250.87	T	20.00	0.000
	SCHED 40 WET STEEL				120	6.32	0	25.40	0.509
34	0.00	10.00	0.00	11.36	0.50	16.65	1.18117	1.50	2.953
127	5.60	9.00	16.65	8.84	0.622	16.64	E	1.00	-0.433
	SCHED 40 WET STEEL				120	17.57	0	2.50	2.520
35	0.00	10.00	0.00	10.86	0.50	16.28	1.13358	1.50	2.834
126	5.60	9.00	16.28	8.46	0.622	16.28	E	1.00	-0.433
	SCHED 40 WET STEEL				120	17.19	0	2.50	2.401
36	0.00	10.00	0.00	10.99	1.00	0.00	0.08893	1.50	0.133
35	0.00	10.00	0.00	10.86	1.049	16.28	----	0.00	0.000
	SCHED 40 WET STEEL				120	6.04	0	1.50	0.133
36	0.00	10.00	0.00	10.99	1.00	0.00	0.08893	1.50	0.133
37	0.00	10.00	0.00	10.86	1.049	16.28	----	0.00	0.000
	SCHED 40 WET STEEL				120	6.04	0	1.50	0.133
36	0.00	10.00	0.00	10.99	4.00	0.00	0.01551	5.40	0.394
39	0.00	10.00	0.00	10.60	4.026	218.31	T	20.00	0.000
	SCHED 40 WET STEEL				120	5.50	0	25.40	0.394
37	0.00	10.00	0.00	10.86	0.50	16.28	1.13358	1.50	2.834
129	5.60	9.00	16.28	8.46	0.622	16.28	E	1.00	-0.433
	SCHED 40 WET STEEL				120	17.19	0	2.50	2.401
38	0.00	10.00	0.00	10.47	0.50	16.00	1.09671	1.50	2.742
125	5.60	9.00	16.00	8.16	0.622	15.99	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.88	0	2.50	2.309
39	0.00	10.00	0.00	10.60	1.00	0.00	0.08603	1.50	0.129
38	0.00	10.00	0.00	10.47	1.049	15.99	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.94	0	1.50	0.129
39	0.00	10.00	0.00	10.60	1.00	0.00	0.08603	1.50	0.129
40	0.00	10.00	0.00	10.47	1.049	15.99	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.94	0	1.50	0.129
39	0.00	10.00	0.00	10.60	4.00	0.00	0.01157	5.40	0.294
42	0.00	10.00	0.00	10.30	4.026	186.34	T	20.00	0.000
	SCHED 40 WET STEEL				120	4.70	0	25.40	0.294
40	0.00	10.00	0.00	10.47	0.50	16.00	1.09671	1.50	2.742
130	5.60	9.00	16.00	8.16	0.622	15.99	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.88	0	2.50	2.309
41	0.00	10.00	0.00	10.18	0.50	15.78	1.06915	1.50	2.673
124	5.60	9.00	15.78	7.94	0.622	15.77	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.65	0	2.50	2.240

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
42	0.00	10.00	0.00	10.30	1.00	0.00	0.08387	1.50	0.126
41	0.00	10.00	0.00	10.18	1.049	15.77	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.85	0	1.50	0.126
42	0.00	10.00	0.00	10.30	1.00	0.00	0.08387	1.50	0.126
43	0.00	10.00	0.00	10.18	1.049	15.77	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.85	0	1.50	0.126
42	0.00	10.00	0.00	10.30	4.00	0.00	0.00821	5.40	0.209
45	0.00	10.00	0.00	10.09	4.026	154.80	T	20.00	0.000
	SCHED 40 WET STEEL				120	3.90	0	25.40	0.209
43	0.00	10.00	0.00	10.18	0.50	15.78	1.06915	1.50	2.673
131	5.60	9.00	15.78	7.94	0.622	15.77	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.65	0	2.50	2.240
44	0.00	10.00	0.00	9.97	0.50	15.62	1.04956	1.50	2.624
123	5.60	9.00	15.62	7.78	0.622	15.61	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.49	0	2.50	2.191
45	0.00	10.00	0.00	10.09	1.00	0.00	0.08234	1.50	0.124
44	0.00	10.00	0.00	9.97	1.049	15.61	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.80	0	1.50	0.124
45	0.00	10.00	0.00	10.09	1.00	0.00	0.08234	1.50	0.124
46	0.00	10.00	0.00	9.97	1.049	15.61	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.80	0	1.50	0.124
45	0.00	10.00	0.00	10.09	4.00	0.00	0.00541	5.40	0.137
48	0.00	10.00	0.00	9.96	4.026	123.57	T	20.00	0.000
	SCHED 40 WET STEEL				120	3.11	0	25.40	0.137
46	0.00	10.00	0.00	9.97	0.50	15.62	1.04956	1.50	2.624
132	5.60	9.00	15.62	7.78	0.622	15.61	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.49	0	2.50	2.191
47	0.00	10.00	0.00	9.83	0.50	15.51	1.03665	1.50	2.592
122	5.60	9.00	15.51	7.68	0.622	15.51	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.38	0	2.50	2.159
48	0.00	10.00	0.00	9.96	1.00	0.00	0.08132	1.50	0.122
47	0.00	10.00	0.00	9.83	1.049	15.51	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.76	0	1.50	0.122
48	0.00	10.00	0.00	9.96	1.00	0.00	0.08132	1.50	0.122
49	0.00	10.00	0.00	9.83	1.049	15.51	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.76	0	1.50	0.122
48	0.00	10.00	0.00	9.96	4.00	0.00	0.00317	5.40	0.081
51	0.00	10.00	0.00	9.88	4.026	92.55	T	20.00	0.000
	SCHED 40 WET STEEL				120	2.33	0	25.40	0.081

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
49	0.00	10.00	0.00	9.83	0.50	15.51	1.03665	1.50	2.592
133	5.60	9.00	15.51	7.68	0.622	15.51	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.38	0	2.50	2.159
50	0.00	10.00	0.00	9.75	0.50	15.45	1.02907	1.50	2.573
121	5.60	9.00	15.45	7.62	0.622	15.45	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.31	0	2.50	2.140
51	0.00	10.00	0.00	9.88	1.00	0.00	0.08073	1.50	0.121
50	0.00	10.00	0.00	9.75	1.049	15.45	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.73	0	1.50	0.121
51	0.00	10.00	0.00	9.88	1.00	0.00	0.08073	1.50	0.121
52	0.00	10.00	0.00	9.75	1.049	15.45	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.73	0	1.50	0.121
51	0.00	10.00	0.00	9.88	4.00	0.00	0.00150	5.40	0.038
54	0.00	10.00	0.00	9.84	4.026	61.66	T	20.00	0.000
	SCHED 40 WET STEEL				120	1.55	0	25.40	0.038
52	0.00	10.00	0.00	9.75	0.50	15.45	1.02907	1.50	2.573
134	5.60	9.00	15.45	7.62	0.622	15.45	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.31	0	2.50	2.140
53	0.00	10.00	0.00	9.72	0.50	15.42	1.02550	1.50	2.564
120	5.60	9.00	15.42	7.59	0.622	15.42	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.28	0	2.50	2.131
54	0.00	10.00	0.00	9.84	1.00	0.00	0.08045	1.50	0.121
53	0.00	10.00	0.00	9.72	1.049	15.42	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.72	0	1.50	0.121
54	0.00	10.00	0.00	9.84	1.00	0.00	0.08045	1.50	0.121
55	0.00	10.00	0.00	9.72	1.049	15.42	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.72	0	1.50	0.121
54	0.00	10.00	0.00	9.84	4.00	0.00	0.00041	5.40	0.011
57	0.00	10.00	0.00	9.83	4.026	30.82	T	20.00	0.000
	SCHED 40 WET STEEL				120	0.78	0	25.40	0.011
55	0.00	10.00	0.00	9.72	0.50	15.42	1.02550	1.50	2.564
135	5.60	9.00	15.42	7.59	0.622	15.42	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.28	0	2.50	2.131
56	0.00	10.00	0.00	9.71	0.50	15.42	1.02451	1.50	2.561
119	5.60	9.00	15.42	7.58	0.622	15.41	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.27	0	2.50	2.128
57	0.00	10.00	0.00	9.83	1.00	0.00	0.08037	1.50	0.121
56	0.00	10.00	0.00	9.71	1.049	15.41	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.72	0	1.50	0.121

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
57	0.00	10.00	0.00	9.83	1.00	0.00	0.08037	1.50	0.121
58	0.00	10.00	0.00	9.71	1.049	15.41	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.72	0	1.50	0.121
58	0.00	10.00	0.00	9.71	0.50	15.42	1.02451	1.50	2.561
136	5.60	9.00	15.42	7.58	0.622	15.41	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.27	0	2.50	2.128
59	0.00	10.00	0.00	10.21	0.50	15.80	1.07253	1.50	2.681
137	5.60	9.00	15.80	7.96	0.622	15.80	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.68	0	2.50	2.248
60	0.00	10.00	0.00	10.34	1.00	0.00	0.08414	1.50	0.126
59	0.00	10.00	0.00	10.21	1.049	15.80	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.86	0	1.50	0.126
60	0.00	10.00	0.00	10.34	1.00	0.00	0.08414	1.50	0.126
61	0.00	10.00	0.00	10.21	1.049	15.80	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.86	0	1.50	0.126
61	0.00	10.00	0.00	10.21	0.50	15.80	1.07253	1.50	2.681
154	5.60	9.00	15.80	7.96	0.622	15.80	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.68	0	2.50	2.248
62	0.00	10.00	0.00	10.22	0.50	15.81	1.07356	1.50	2.684
138	5.60	9.00	15.81	7.97	0.622	15.80	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.69	0	2.50	2.251
63	0.00	10.00	0.00	10.35	4.00	0.00	0.00043	5.40	0.011
60	0.00	10.00	0.00	10.34	4.026	31.59	T	20.00	0.000
	SCHED 40 WET STEEL				120	0.80	0	25.40	0.011
63	0.00	10.00	0.00	10.35	1.00	0.00	0.08422	1.50	0.126
62	0.00	10.00	0.00	10.22	1.049	15.80	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.87	0	1.50	0.126
63	0.00	10.00	0.00	10.35	1.00	0.00	0.08422	1.50	0.126
64	0.00	10.00	0.00	10.22	1.049	15.80	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.87	0	1.50	0.126
64	0.00	10.00	0.00	10.22	0.50	15.81	1.07356	1.50	2.684
153	5.60	9.00	15.81	7.97	0.622	15.80	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.69	0	2.50	2.251
65	0.00	10.00	0.00	10.26	0.50	15.84	1.07729	1.50	2.693
139	5.60	9.00	15.84	8.00	0.622	15.83	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.72	0	2.50	2.260
66	0.00	10.00	0.00	10.39	4.00	0.00	0.00157	5.40	0.040
63	0.00	10.00	0.00	10.35	4.026	63.20	T	20.00	0.000
	SCHED 40 WET STEEL				120	1.59	0	25.40	0.040

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
66	0.00	10.00	0.00	10.39	1.00	0.00	0.08451	1.50	0.127
65	0.00	10.00	0.00	10.26	1.049	15.83	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.88	0	1.50	0.127
66	0.00	10.00	0.00	10.39	1.00	0.00	0.08451	1.50	0.127
67	0.00	10.00	0.00	10.26	1.049	15.83	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.88	0	1.50	0.127
67	0.00	10.00	0.00	10.26	0.50	15.84	1.07729	1.50	2.693
152	5.60	9.00	15.84	8.00	0.622	15.83	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.72	0	2.50	2.260
68	0.00	10.00	0.00	10.35	0.50	15.90	1.08520	1.50	2.713
140	5.60	9.00	15.90	8.07	0.622	15.90	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.79	0	2.50	2.280
69	0.00	10.00	0.00	10.47	4.00	0.00	0.00332	5.40	0.084
66	0.00	10.00	0.00	10.39	4.026	94.87	T	20.00	0.000
	SCHED 40 WET STEEL				120	2.39	0	25.40	0.084
69	0.00	10.00	0.00	10.47	1.00	0.00	0.08513	1.50	0.128
68	0.00	10.00	0.00	10.35	1.049	15.90	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.90	0	1.50	0.128
69	0.00	10.00	0.00	10.47	1.00	0.00	0.08513	1.50	0.128
70	0.00	10.00	0.00	10.35	1.049	15.90	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.90	0	1.50	0.128
70	0.00	10.00	0.00	10.35	0.50	15.90	1.08520	1.50	2.713
151	5.60	9.00	15.90	8.07	0.622	15.90	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.79	0	2.50	2.280
71	0.00	10.00	0.00	10.49	0.50	16.01	1.09868	1.50	2.747
141	5.60	9.00	16.01	8.17	0.622	16.00	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.90	0	2.50	2.314
72	0.00	10.00	0.00	10.62	4.00	0.00	0.00566	5.40	0.144
69	0.00	10.00	0.00	10.47	4.026	126.67	T	20.00	0.000
	SCHED 40 WET STEEL				120	3.19	0	25.40	0.144
72	0.00	10.00	0.00	10.62	1.00	0.00	0.08619	1.50	0.129
71	0.00	10.00	0.00	10.49	1.049	16.00	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.94	0	1.50	0.129
72	0.00	10.00	0.00	10.62	1.00	0.00	0.08619	1.50	0.129
73	0.00	10.00	0.00	10.49	1.049	16.00	----	0.00	0.000
	SCHED 40 WET STEEL				120	5.94	0	1.50	0.129
73	0.00	10.00	0.00	10.49	0.50	16.01	1.09868	1.50	2.747
150	5.60	9.00	16.01	8.17	0.622	16.00	E	1.00	-0.433
	SCHED 40 WET STEEL				120	16.90	0	2.50	2.314

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
74	0.00	10.00	0.00	10.70	0.50	16.17	1.11912	1.50	2.798
142	5.60	9.00	16.17	8.34	0.622	16.16	E	1.00	-0.433
SCHED 40 WET STEEL					120	17.07	0	2.50	2.365
75	0.00	10.00	0.00	10.84	4.00	0.00	0.00859	5.40	0.218
72	0.00	10.00	0.00	10.62	4.026	158.67	T	20.00	0.000
SCHED 40 WET STEEL					120	4.00	0	25.40	0.218
75	0.00	10.00	0.00	10.84	1.00	0.00	0.08779	1.50	0.132
74	0.00	10.00	0.00	10.70	1.049	16.16	----	0.00	0.000
SCHED 40 WET STEEL					120	6.00	0	1.50	0.132
75	0.00	10.00	0.00	10.84	1.00	0.00	0.08779	1.50	0.132
76	0.00	10.00	0.00	10.70	1.049	16.16	----	0.00	0.000
SCHED 40 WET STEEL					120	6.00	0	1.50	0.132
76	0.00	10.00	0.00	10.70	0.50	16.17	1.11912	1.50	2.798
149	5.60	9.00	16.17	8.34	0.622	16.16	E	1.00	-0.433
SCHED 40 WET STEEL					120	17.07	0	2.50	2.365
77	0.00	10.00	0.00	11.01	0.50	16.39	1.14789	1.50	2.870
143	5.60	9.00	16.39	8.57	0.622	16.39	E	1.00	-0.433
SCHED 40 WET STEEL					120	17.30	0	2.50	2.437
78	0.00	10.00	0.00	11.14	4.00	0.00	0.01211	5.40	0.308
75	0.00	10.00	0.00	10.84	4.026	191.00	T	20.00	0.000
SCHED 40 WET STEEL					120	4.81	0	25.40	0.308
78	0.00	10.00	0.00	11.14	1.00	0.00	0.09005	1.50	0.135
77	0.00	10.00	0.00	11.01	1.049	16.39	----	0.00	0.000
SCHED 40 WET STEEL					120	6.08	0	1.50	0.135
78	0.00	10.00	0.00	11.14	1.00	0.00	0.09005	1.50	0.135
79	0.00	10.00	0.00	11.01	1.049	16.39	----	0.00	0.000
SCHED 40 WET STEEL					120	6.08	0	1.50	0.135
79	0.00	10.00	0.00	11.01	0.50	16.39	1.14789	1.50	2.870
148	5.60	9.00	16.39	8.57	0.622	16.39	E	1.00	-0.433
SCHED 40 WET STEEL					120	17.30	0	2.50	2.437
80	0.00	10.00	0.00	11.42	0.50	16.69	1.18638	1.50	2.966
144	5.60	9.00	16.69	8.88	0.622	16.68	E	1.00	-0.433
SCHED 40 WET STEEL					120	17.61	0	2.50	2.533
81	0.00	10.00	0.00	11.56	4.00	0.00	0.01623	5.40	0.412
78	0.00	10.00	0.00	11.14	4.026	223.78	T	20.00	0.000
SCHED 40 WET STEEL					120	5.64	0	25.40	0.412
81	0.00	10.00	0.00	11.56	1.00	0.00	0.09307	1.50	0.140
80	0.00	10.00	0.00	11.42	1.049	16.68	----	0.00	0.000
SCHED 40 WET STEEL					120	6.19	0	1.50	0.140

Fire Sprinkler Output Data

Overall Pipe Output Data (cont'd)

Beg. End. Node	Nodal KFactor (K)	Elevation (feet)	Spk/Hose Discharge (gpm)	Residual Pressure (psi)	Nom. Dia. Inside Dia. C-Value	q (gpm) Q (gpm) Velocity (fps)	F. L./ft (psi/ft) Fittings Type-Grp	Pipe-Len. Fit-Len. Tot-Len. (ft)	PF-(psi) PE-(psi) PT-(psi)
81	0.00	10.00	0.00	11.56	1.00	0.00	0.09307	1.50	0.140
82	0.00	10.00	0.00	11.42	1.049	16.68	----	0.00	0.000
	SCHED 40 WET STEEL				120	6.19	0	1.50	0.140
82	0.00	10.00	0.00	11.42	0.50	16.69	1.18638	1.50	2.966
147	5.60	9.00	16.69	8.88	0.622	16.68	E	1.00	-0.433
	SCHED 40 WET STEEL				120	17.61	0	2.50	2.533
83	0.00	10.00	0.00	11.94	0.50	17.06	1.23605	1.50	3.090
145	5.60	9.00	17.06	9.29	0.622	17.06	E	1.00	-0.433
	SCHED 40 WET STEEL				120	18.01	0	2.50	2.657
84	0.00	10.00	0.00	12.09	4.00	0.00	0.02099	5.40	0.533
81	0.00	10.00	0.00	11.56	4.026	257.14	T	20.00	0.000
	SCHED 40 WET STEEL				120	6.48	0	25.40	0.533
84	0.00	10.00	0.00	12.09	1.00	0.00	0.09697	1.50	0.145
83	0.00	10.00	0.00	11.94	1.049	17.06	----	0.00	0.000
	SCHED 40 WET STEEL				120	6.33	0	1.50	0.145
84	0.00	10.00	0.00	12.09	1.00	0.00	0.09697	1.50	0.145
85	0.00	10.00	0.00	11.94	1.049	17.06	----	0.00	0.000
	SCHED 40 WET STEEL				120	6.33	0	1.50	0.145
85	0.00	10.00	0.00	11.94	0.50	17.06	1.23605	1.50	3.090
146	5.60	9.00	17.06	9.29	0.622	17.06	E	1.00	-0.433
	SCHED 40 WET STEEL				120	18.01	0	2.50	2.657
86	0.00	10.00	0.00	12.43	4.00	0.00	0.02643	3.00	0.344
84	0.00	10.00	0.00	12.09	4.026	291.25	E	10.00	0.000
	SCHED 40 WET STEEL				120	7.34	0	13.00	0.344
30	0.00	0.50	0.00	16.18	6.00	0.00	0.01207	21.00	0.616
87	0.00	0.50	0.00	16.80	6.065	560.66	T	30.00	0.000
	SCHED 40 WET STEEL				120	6.23	0	51.00	0.616
87	0.00	0.50	0.00	16.80	4.00	0.00	0.02643	9.50	0.251
86	0.00	10.00	0.00	12.43	4.026	291.25	----	0.00	4.114
	SCHED 40 WET STEEL				120	7.34	0	9.50	4.365
87	0.00	0.50	0.00	16.80	6.00	0.00	0.02618	186.00	7.067
88	0.00	0.50	0.00	23.86	6.065	851.91	6E	84.00	0.000
	SCHED 40 WET STEEL				120	9.46	0	270.00	7.067
88	0.00	0.50	0.00	23.86	6.00	0.00	0.02618	2.50	0.432
89	0.00	3.00	0.00	23.21	6.065	851.91	E	14.00	-1.083
	SCHED 40 WET STEEL				120	9.46	0	16.50	-0.651
89	0.00	3.00	0.00	23.21	6.00	0.00	0.02618	1.00	0.393
90	0.00	3.00	0.00	23.61	6.065	851.91	E	14.00	0.000
	SCHED 40 WET STEEL				120	9.46	0	15.00	0.393

Fire Sprinkler Output Data

Overall Sprinkler Output Data

Flowing Sprinkler Node No.	Area Group Code	Sprinkler KFactor (K)	Sprinkler Elevation (feet)	Residual Pressure (psi)	Flowing Area (ft ²)	Flowing Density (gpm/ft ²)	Sprinkler Discharge (gpm)
101		5.60	9.00	7.17	50.00	0.300	15.00
Sub Totals For Non-Group					50.00	0.300	15.00
102		5.60	9.00	7.18	50.00	0.300	15.01
Sub Totals For Non-Group					50.00	0.300	15.01
103		5.60	9.00	7.21	50.00	0.301	15.04
Sub Totals For Non-Group					50.00	0.301	15.04
104		5.60	9.00	7.27	50.00	0.302	15.10
Sub Totals For Non-Group					50.00	0.302	15.10
105		5.60	9.00	7.37	50.00	0.304	15.20
Sub Totals For Non-Group					50.00	0.304	15.20
106		5.60	9.00	7.51	50.00	0.307	15.35
Sub Totals For Non-Group					50.00	0.307	15.35
107		5.60	9.00	7.73	50.00	0.311	15.56
Sub Totals For Non-Group					50.00	0.311	15.56
108		5.60	9.00	8.01	50.00	0.317	15.85
Sub Totals For Non-Group					50.00	0.317	15.85
109		5.60	9.00	8.37	50.00	0.324	16.20
Sub Totals For Non-Group					50.00	0.324	16.20
110		5.60	9.00	8.37	50.00	0.324	16.20
Sub Totals For Non-Group					50.00	0.324	16.20
111		5.60	9.00	8.01	50.00	0.317	15.85
Sub Totals For Non-Group					50.00	0.317	15.85
112		5.60	9.00	7.73	50.00	0.311	15.56
Sub Totals For Non-Group					50.00	0.311	15.56
113		5.60	9.00	7.51	50.00	0.307	15.35
Sub Totals For Non-Group					50.00	0.307	15.35
114		5.60	9.00	7.37	50.00	0.304	15.20
Sub Totals For Non-Group					50.00	0.304	15.20
115		5.60	9.00	7.27	50.00	0.302	15.10
Sub Totals For Non-Group					50.00	0.302	15.10
116		5.60	9.00	7.21	50.00	0.301	15.04
Sub Totals For Non-Group					50.00	0.301	15.04
117		5.60	9.00	7.18	50.00	0.300	15.01
Sub Totals For Non-Group					50.00	0.300	15.01
118		5.60	9.00	7.17	50.00	0.300	15.00
Sub Totals For Non-Group					50.00	0.300	15.00
119		5.60	9.00	7.58	50.00	0.308	15.42
Sub Totals For Non-Group					50.00	0.308	15.42

Fire Sprinkler Output Data

Overall Sprinkler Output Data (cont'd)

Flowing Sprinkler Node No.	Area Group Code	Sprinkler KFactor (K)	Sprinkler Elevation (feet)	Residual Pressure (psi)	Flowing Area (ft ²)	Flowing Density (gpm/ft ²)	Sprinkler Discharge (gpm)
120		5.60	9.00	7.59	50.00	0.308	15.42
Sub Totals For Non-Group					50.00	0.308	15.42
121		5.60	9.00	7.62	50.00	0.309	15.45
Sub Totals For Non-Group					50.00	0.309	15.45
122		5.60	9.00	7.68	50.00	0.310	15.51
Sub Totals For Non-Group					50.00	0.310	15.51
123		5.60	9.00	7.78	50.00	0.312	15.62
Sub Totals For Non-Group					50.00	0.312	15.62
124		5.60	9.00	7.94	50.00	0.316	15.78
Sub Totals For Non-Group					50.00	0.316	15.78
125		5.60	9.00	8.16	50.00	0.320	16.00
Sub Totals For Non-Group					50.00	0.320	16.00
126		5.60	9.00	8.46	50.00	0.326	16.28
Sub Totals For Non-Group					50.00	0.326	16.28
127		5.60	9.00	8.84	50.00	0.333	16.65
Sub Totals For Non-Group					50.00	0.333	16.65
128		5.60	9.00	8.84	50.00	0.333	16.65
Sub Totals For Non-Group					50.00	0.333	16.65
129		5.60	9.00	8.46	50.00	0.326	16.28
Sub Totals For Non-Group					50.00	0.326	16.28
130		5.60	9.00	8.16	50.00	0.320	16.00
Sub Totals For Non-Group					50.00	0.320	16.00
131		5.60	9.00	7.94	50.00	0.316	15.78
Sub Totals For Non-Group					50.00	0.316	15.78
132		5.60	9.00	7.78	50.00	0.312	15.62
Sub Totals For Non-Group					50.00	0.312	15.62
133		5.60	9.00	7.68	50.00	0.310	15.51
Sub Totals For Non-Group					50.00	0.310	15.51
134		5.60	9.00	7.62	50.00	0.309	15.45
Sub Totals For Non-Group					50.00	0.309	15.45
135		5.60	9.00	7.59	50.00	0.308	15.42
Sub Totals For Non-Group					50.00	0.308	15.42
136		5.60	9.00	7.58	50.00	0.308	15.42
Sub Totals For Non-Group					50.00	0.308	15.42
137		5.60	9.00	7.96	50.00	0.316	15.80
Sub Totals For Non-Group					50.00	0.316	15.80
138		5.60	9.00	7.97	50.00	0.316	15.81
Sub Totals For Non-Group					50.00	0.316	15.81

Fire Sprinkler Output Data

Overall Sprinkler Output Data (cont'd)

Flowing Sprinkler Node No.	Area Group Code	Sprinkler KFactor (K)	Sprinkler Elevation (feet)	Residual Pressure (psi)	Flowing Area (ft ²)	Flowing Density (gpm/ft ²)	Sprinkler Discharge (gpm)
139		5.60	9.00	8.00	50.00	0.317	15.84
Sub Totals For Non-Group					50.00	0.317	15.84
140		5.60	9.00	8.07	50.00	0.318	15.90
Sub Totals For Non-Group					50.00	0.318	15.90
141		5.60	9.00	8.17	50.00	0.320	16.01
Sub Totals For Non-Group					50.00	0.320	16.01
142		5.60	9.00	8.34	50.00	0.323	16.17
Sub Totals For Non-Group					50.00	0.323	16.17
143		5.60	9.00	8.57	50.00	0.328	16.39
Sub Totals For Non-Group					50.00	0.328	16.39
144		5.60	9.00	8.88	50.00	0.334	16.69
Sub Totals For Non-Group					50.00	0.334	16.69
145		5.60	9.00	9.29	50.00	0.341	17.06
Sub Totals For Non-Group					50.00	0.341	17.06
146		5.60	9.00	9.29	50.00	0.341	17.06
Sub Totals For Non-Group					50.00	0.341	17.06
147		5.60	9.00	8.88	50.00	0.334	16.69
Sub Totals For Non-Group					50.00	0.334	16.69
148		5.60	9.00	8.57	50.00	0.328	16.39
Sub Totals For Non-Group					50.00	0.328	16.39
149		5.60	9.00	8.34	50.00	0.323	16.17
Sub Totals For Non-Group					50.00	0.323	16.17
150		5.60	9.00	8.17	50.00	0.320	16.01
Sub Totals For Non-Group					50.00	0.320	16.01
151		5.60	9.00	8.07	50.00	0.318	15.90
Sub Totals For Non-Group					50.00	0.318	15.90
152		5.60	9.00	8.00	50.00	0.317	15.84
Sub Totals For Non-Group					50.00	0.317	15.84
153		5.60	9.00	7.97	50.00	0.316	15.81
Sub Totals For Non-Group					50.00	0.316	15.81
154		5.60	9.00	7.96	50.00	0.316	15.80
Sub Totals For Non-Group					50.00	0.316	15.80
Totals For All Groups					2700.00	0.316	852.26

Fire Sprinkler Output Summary

Hydraulically Most Demanding Sprinkler Node

HMD Sprinkler Node Number:	101
HMD Actual Residual Pressure:	7.17 psi
HMD Actual GPM:	15.00 gpm

Sprinkler Summary

Sprinkler System Type:	Dry
Specified Area Of Application:	2500.00 ft ²
Adjusted Area Of Application:	3250.00 ft ²
Minimum Desired Density:	0.300 gpm/ft ²
Application Average Density:	0.341 gpm/ft ²
Application Adjusted Density (not required by NFPA 13):	0.262 gpm/ft ²
Application Average Area Per Sprinkler:	46.30 ft ²
Adjusted Area Per Sprinkler (not required by NFPA 13):	60.19 ft ²
Sprinkler Flow:	852.26 gpm
Average Sprinkler Flow:	15.78 gpm

Flow Velocity And Imbalance Summary

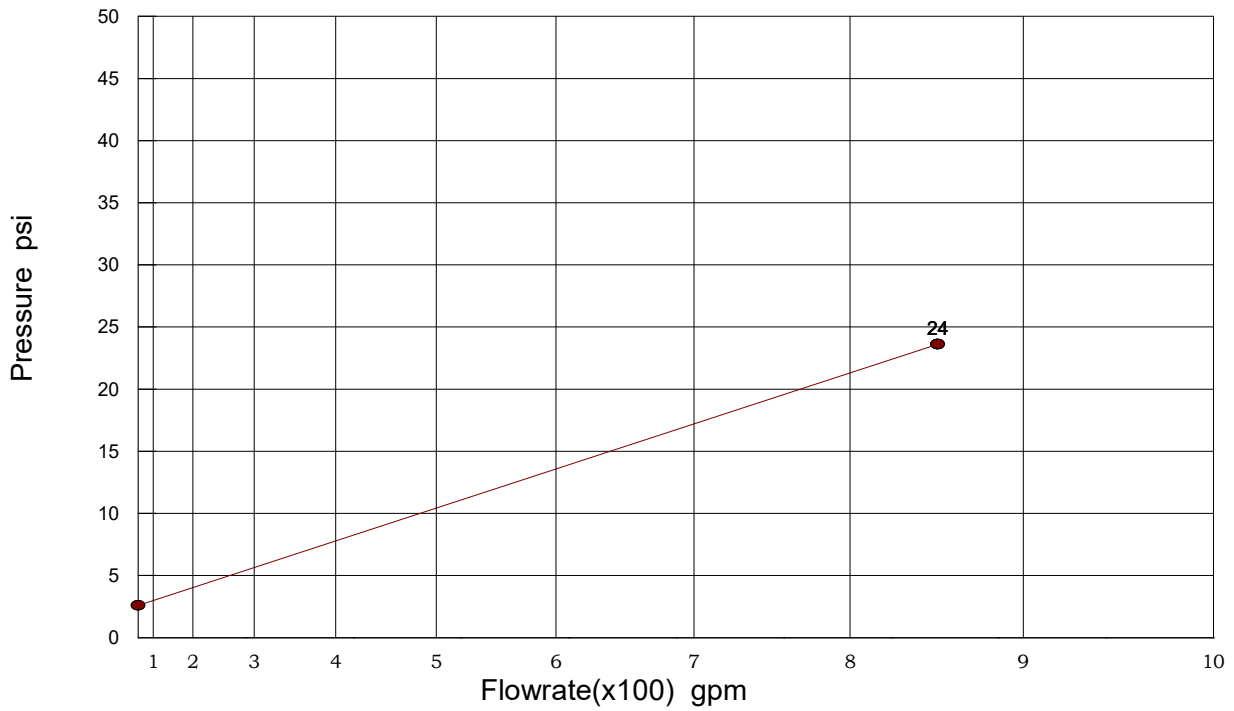
Maximum Flow Velocity (In Pipe 83 - 145)	18.01 ft/sec
Maximum Velocity Pressure (In Pipe 83 - 145)	2.18 psi
Allowable Maximum Nodal Pressure Imbalance:	0.1000 psi
Actual Maximum Nodal Pressure Imbalance:	0.0103 psi
Actual Average Nodal Pressure Imbalance:	0.0018 psi
Actual Maximum Nodal Flow Imbalance:	0.0088 gpm
Actual Average Nodal Flow Imbalance:	0.0025 gpm

Overall Network Summary

Number Of Unique Pipe Sections:	143
Number Of Flowing Sprinklers:	54
Pipe System Water Volume:	462.85 gal
Sprinkler Flow:	852.26 gpm
Non-Sprinkler Flow:	0.00 gpm
Minimum Required Residual Pressure At System Inflow Node:	23.61 psi
Demand Flow At System Inflow Node:	851.91 gpm

Fire Sprinkler Output Data

Hydraulic Supply/Demand Graph



Demand Curve Data

Calculated Residual Pressure: 23.61 psi

Calculated Flow Rate: 851.91 gpm

Pressure Required For First Sprinkler Downstream From Inflow Node To Flow: 2.60 psi