

FIRE PROTECTION SYSTEM PRESSURE SWITCH SCHEDULE		
PS-#	DESCRIPTION	LOCATION
PS-4	PRESSURE SWITCH FOR P-1 PARKING DRY SPR. SYSTEM	SPRINKLER ROOM
PS-5	PRESSURE SWITCH FOR P-2 PARKING DRY SPR. SYSTEM	SPRINKLER ROOM
PS-7	PRESSURE SWITCH FOR JOCKEY PUMP	SPRINKLER ROOM
PS-8	PRESSURE SWITCH FOR FIRE PUMP	SPRINKLER ROOM
PS-9	PRESSURE SWITCH FOR COMBINATION FEED MAIN.	SPRINKLER ROOM
LAPS-1	LOW AIR PRESSURE SWITCH	SPRINKLER ROOM
LAPS-2	LOW AIR PRESSURE SWITCH	SPRINKLER ROOM

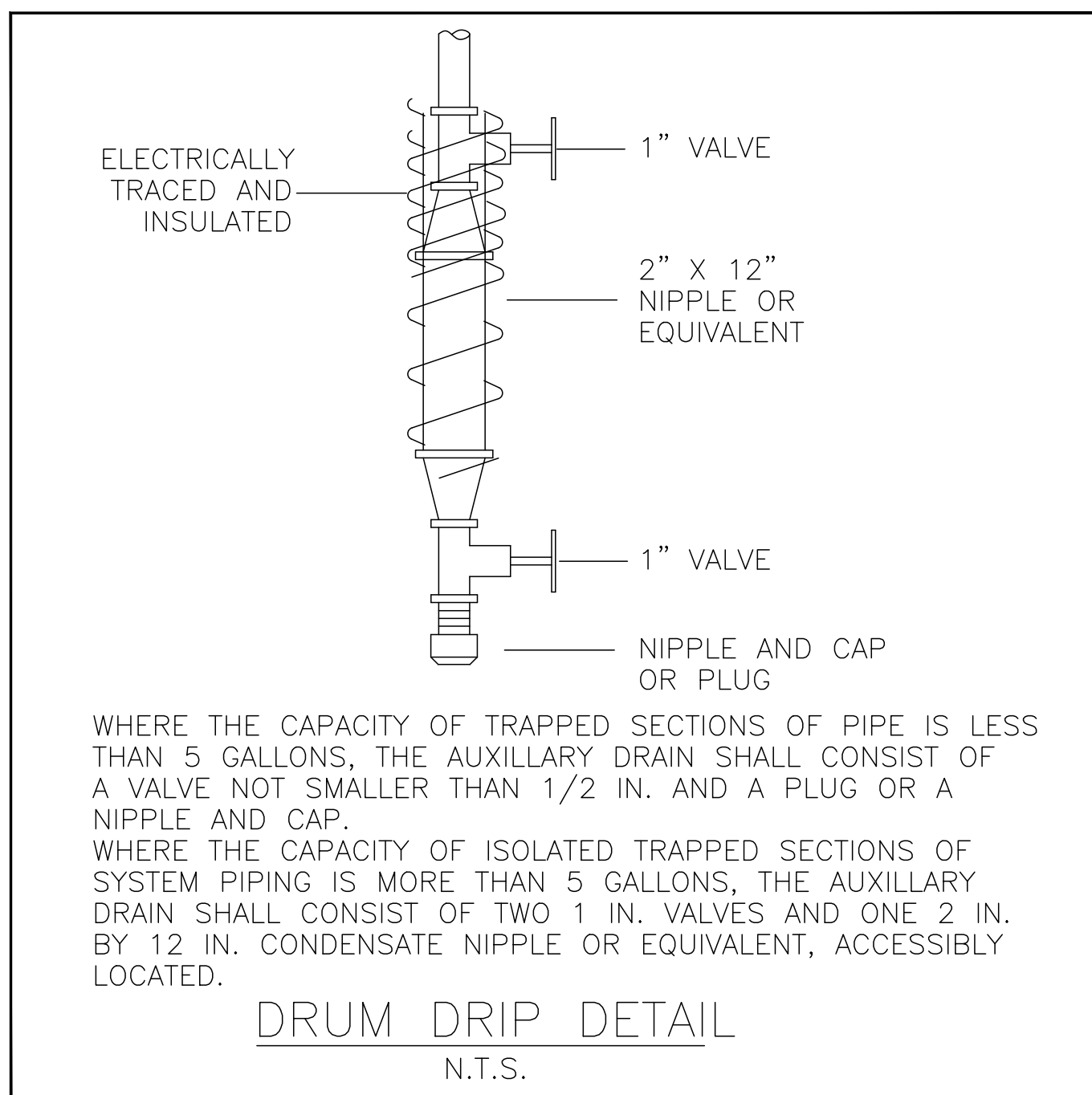
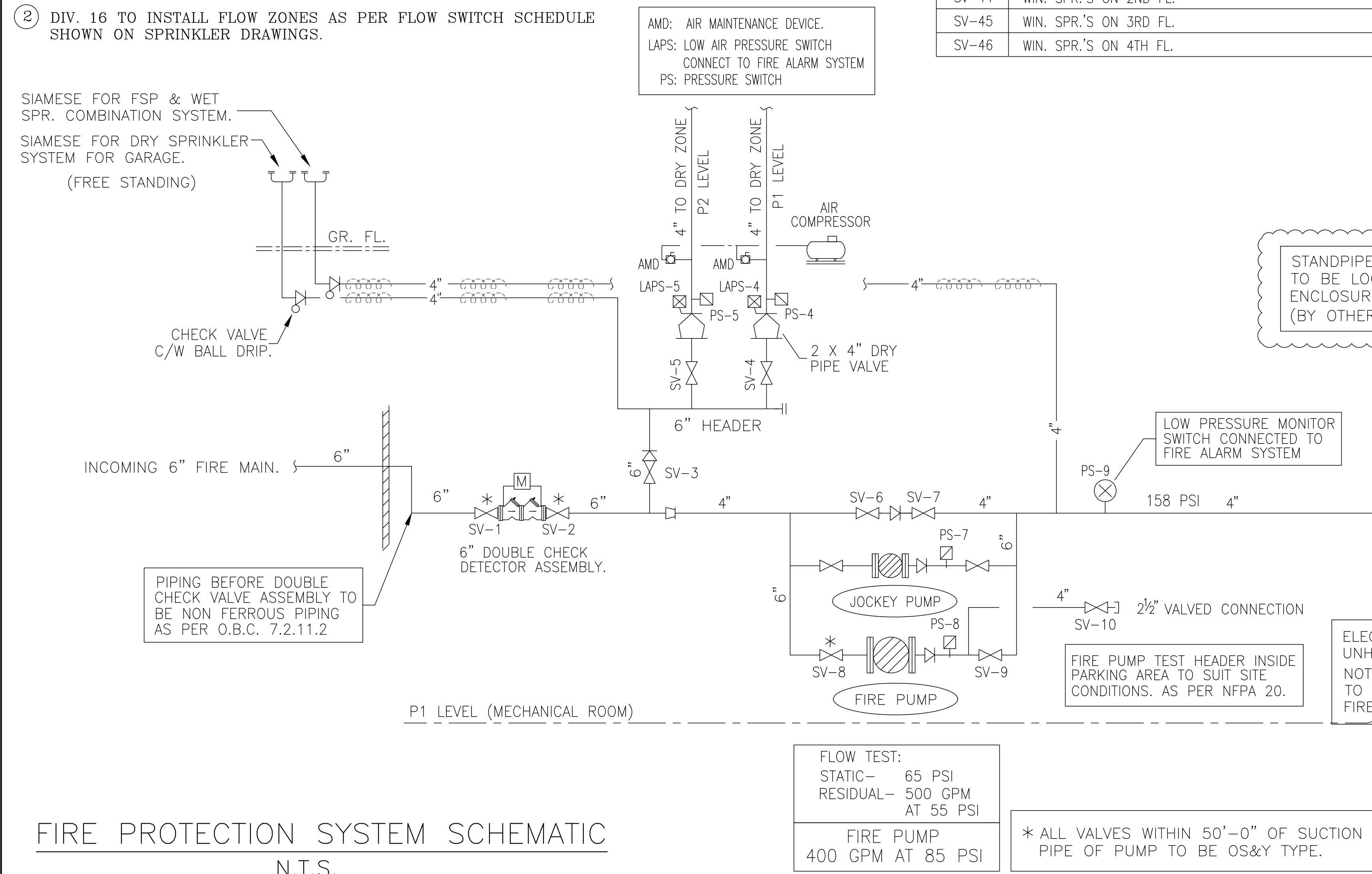
FIRE PROTECTION SYSTEM FLOW SWITCHES SCHEDULE ALL LOW PRESSURE SWITCHES TO BE CONNECTED TO ANNUNCIATION PANEL		
ZONE	DESCRIPTION	LOCATION
FS-21	SPR. SYSTEM ON GROUND LEVEL	GARBAGE ROOM (170)
FS-22	SPR. SYSTEM IN GARBAGE ROOM	GARBAGE ROOM (170)
FS-23	SPR. RISER IN GARBAGE CHUTE.	GARBAGE ROOM (170)
FS-24	SPR. SYSTEM IN TOWNHOUSE AT NORTHEAST CORNER.	GARBAGE ROOM (170)

FS-25	SPR. SYSTEM ON 2ND LEVEL	2ND LEVEL (STAIR G)
FS-26	SPR. SYSTEM ON 3RD LEVEL	3RD LEVEL (STAIR F)
FS-27	SPR. SYSTEM ON 4TH LEVEL	4TH LEVEL (STAIR G)
FS-28	SPR. SYSTEM ON 5TH LEVEL	5TH LEVEL (STAIR F)
FS-29	SPR. SYSTEM ON 6TH LEVEL	6TH LEVEL (STAIR G)
FS-30	SPR. SYSTEM ON 7TH LEVEL	7TH LEVEL (STAIR F)
FS-31	SPR. SYSTEM ON 8TH LEVEL	8TH LEVEL (STAIR G)
FS-32	SPR. SYSTEM ON 9TH LEVEL	9TH LEVEL (STAIR F)
FS-33	SPR. SYSTEM ON 10TH LEVEL	10TH LEVEL (STAIR G)
FS-34	SPR. SYSTEM ON 11TH LEVEL	11TH LEVEL (STAIR F)
FS-35	SPR. SYSTEM ON 12TH LEVEL	12TH LEVEL (STAIR G)
FS-36	SPR. SYSTEM ON 13TH LEVEL	13TH LEVEL (STAIR F)
FS-37	SPR. SYSTEM ON 14TH LEVEL	14TH LEVEL (STAIR G)
FS-38	SPR. SYSTEM ON MECH. PENHOUSE	PENHOUSE
FS-39	SPR. SYSTEM IN MECH. P.H. ON 9TH FL.	MECH. RM ON 9TH FL.

FS-41	WIN. SPR.'S ON P1	STAFF ROOM ON P1
FS-42	WIN. SPR.'S ON P2	STAFF ROOM ON P1
FS-43	WIN. SPR.'S ON GR. FL.	CORRIDOR ON GR. FL.
FS-44	WIN. SPR.'S ON 2ND FL.	2ND FL. (STAIR J)
FS-45	WIN. SPR.'S ON 3RD FL.	3RD FL. (STAIR J)
FS-46	WIN. SPR.'S ON 4TH FL.	4TH FL. (STAIR J)

KEY NOTES:

- CONNECT ALL SV'S, PS'S, PS'S AND OTHER DEVICES INDICATED ON THE SCHEDULES ABOVE TO CACF BY ADDRESSABLE CLASS A LOOPS.
- DIV. 16 TO INSTALL FLOW ZONES AS PER FLOW SWITCH SCHEDULE SHOWN ON SPRINKLER DRAWINGS.



FIRE PROTECTION SYSTEM SUPERVISED VALVES SCHEDULE		
ZONE	DESCRIPTION	LOCATION
SV-1	INCOMING FIRE MAIN ISOLATION	SPRINKLER ROOM
SV-2	INCOMING FIRE MAIN ISOLATION	SPRINKLER ROOM
SV-3	DRY SPR. SYSTEM HEADER MAIN ISOLATION	SPRINKLER ROOM
SV-4	P-1 PARKING DRY SPR. SYSTEM	SPRINKLER ROOM
SV-5	P-2 PARKING DRY SPR. SYSTEM	SPRINKLER ROOM
SV-6	FIRE PUMP BY-PASS	SPRINKLER ROOM
SV-7	FIRE PUMP BY-PASS	SPRINKLER ROOM
SV-8	FIRE PUMP SUCTION	SPRINKLER ROOM
SV-9	FIRE PUMP DISCHARGE	SPRINKLER ROOM
SV-10	FIRE PUMP TEST HEADER	SPRINKLER ROOM
SV-11	FIRE STANDPIPE RISER-P1	P-1 PARKING GARAGE
SV-12	FIRE STANDPIPE RISER-P2	P-1 PARKING GARAGE
SV-13	FIRE STANDPIPE RISER-4 & P3	P-1 PARKING GARAGE
SV-14	FIRE STANDPIPE RISER-1	P-1 PARKING GARAGE
SV-15	FSP & SPR. COMBINATION RISER (FSP-2)	P-1 PARKING GARAGE
SV-16	FIRE STANDPIPE RISER-3	P-1 PARKING GARAGE

SV-20	SPR. RISER ISOLATION	GARBAGE ROOM (170)
SV-21	SPR. SYSTEM ON GROUND LEVEL	GARBAGE ROOM (170)
SV-22	SPR. SYSTEM IN GARBAGE ROOM	GARBAGE ROOM (170)
SV-23	SPR. RISER IN GARBAGE CHUTE.	GARBAGE ROOM (170)
SV-24	SPR. SYSTEM IN TOWNHOUSE AT NORTHEAST CORNER.	GARBAGE ROOM (170)

SV-25	SPR. SYSTEM ON 2ND LEVEL	2ND LEVEL (STAIR G)
SV-26	SPR. SYSTEM ON 3RD LEVEL	3RD LEVEL (STAIR F)
SV-27	SPR. SYSTEM ON 4TH LEVEL	4TH LEVEL (STAIR G)
SV-28	SPR. SYSTEM ON 5TH LEVEL	5TH LEVEL (STAIR F)
SV-29	SPR. SYSTEM ON 6TH LEVEL	6TH LEVEL (STAIR G)
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SV-38	SPR. SYSTEM ON MECH. PENHOUSE	PENHOUSE
SV-39	SPR. SYSTEM IN MECH. P.H. ON 9TH FL.	MECH. RM ON 9TH FL.

SV-41	WIN. SPR.'S ON P1	STAFF ROOM ON P1
SV-42	WIN. SPR.'S ON P2	STAFF ROOM ON P1
SV-43	WIN. SPR.'S ON GR. FL.	CORRIDOR ON GR. FL.
SV-44	WIN. SPR.'S ON 2ND FL.	2ND FL. (STAIR J)
SV-45	WIN. SPR.'S ON 3RD FL.	3RD FL. (STAIR J)
SV-46	WIN. SPR.'S ON 4TH FL.	4TH FL. (STAIR J)

SV-47	WIN. SPR.'S ON P1	STAFF ROOM ON P1
SV-48	WIN. SPR.'S ON P2	STAFF ROOM ON P1
SV-49	WIN. SPR.'S ON GR. FL.	CORRIDOR ON GR. FL.
SV-50	WIN. SPR.'S ON 2ND FL.	2ND FL. (STAIR J)
SV-51	WIN. SPR.'S ON 3RD FL.	3RD FL. (STAIR J)
SV-52	WIN. SPR.'S ON 4TH FL.	4TH FL. (STAIR J)

SV-53	WIN. SPR.'S ON P1	STAFF ROOM ON P1
SV-54	WIN. SPR.'S ON P2	STAFF ROOM ON P1
SV-55	WIN. SPR.'S ON GR. FL.	CORRIDOR ON GR. FL.
SV-56	WIN. SPR.'S ON 2ND FL.	2ND FL. (STAIR J)
SV-57	WIN. SPR.'S ON 3RD FL.	3RD FL. (STAIR J)
SV-58	WIN. SPR.'S ON 4TH FL.	4TH FL. (STAIR J)

PUMPS SCHEDULE - FIRE PROTECTION						
PUMP NO.	GPM	HEAD	HP	V./~A	RPM	MAKE
FIRE PUMP	400 GPM	85 PSI	40 HP	575/3/60	3560 RPM	ARMSTRONG OR SIMILAR
JOCKEY PUMP	10 GPM	90 PSI	1 HP	575/3/60	3600 RPM	ARMSTRONG OR SIMILAR

NOTE: ELECTRICAL SPECIFICATIONS FOR FIRE PUMP TO BE CONFIRMED BY ELECTRICAL CONSULTANT.

ANCILIARY CIRCUITS (OUTPUT TO START/SHUTDOWN FANS & DEVICES)	
CR1	AHU-1 STOP (AUTOMATIC ON FIRE ALARM INITIATION & BY MANUAL SW. AT CACF)
CR2	GF-1 START (AUTOMATIC ON FIRE ALARM INITIATION & BY MANUAL SW. AT CACF)
CR3	GF-2 START (AUTOMATIC ON FIRE ALARM INITIATION & BY MANUAL SW. AT CACF)
CR4	EF-11 START (AUTOMATIC ON FIRE ALARM INITIATION & BY MANUAL SW. AT CACF)
CR5	EF-18 START (AUTOMATIC ON FIRE ALARM INITIATION & BY MANUAL SW. AT CACF)
CR6	HOLD OPEN DEVICES
CR1	CACF SIGN
CR8	FIRE DAMPERS (AUTOMATIC ON FIRE ALARM INITIATION) OPEN
CR3-CR13	SPARE (AUTOMATIC ON FIRE ALARM INITIATION & BY MANUAL SW. AT CACF)

TROUBLE PANEL			
No.	ALARM	DESCRIPTION	LOCATION
1		FIRE PUMP RUNNING	P2 SPRINKLER ROOM
2		FIRE PUMP LOSS OF POWER	P2 SPRINKLER ROOM
3		FIRE PUMP LOW PRESSURE	P2 SPRINKLER ROOM
4		FIRE PUMP PHASE REVERSAL	P2 SPRINKLER ROOM
5		SPRINKLER ROOM LOW TEMP. (4°C ALARM)	P2 SPRINKLER ROOM
6		JOCKEY PUMP RUNNING	P2 SPRINKLER ROOM
7		SPRINKLER COMPRESSOR LOSS OF POWER	P2 SPRINKLER ROOM
8		STANDPIPE – ELECT. TRACED-LOSS OF POWER	P2 SPRINKLER ROOM
9		GENERATOR TROUBLE	P2 SPRINKLER ROOM
10		MAIN GAS VALVE OPEN	P2 SPRINKLER ROOM

FIRE ALARM ZONE SCHEDULE		
ZONE NO.	ZONE	DESCRIPTION
1	P-2 PARKING	
2	P-1 PARKING	
3	G/F PARKING RECYCLING AREA	
4	G/F PARKING GARBAGE & MOVING ROOM	
5	P-2 ELEVATOR LOBBY	
6	P-1 ELEVATOR LOBBY	
7	SPRINKLER ROOM (P-1)	
8	GARBAGE ROOM (G/F)	
9	MAIN ELECTRICAL ROOM (P-2)	
10	GENERATOR ROOM (P-1)	
11	CHILLER ROOM (P-2)	
12	AHU ROOM (P-2)	
13	G/F LOBBY	
14	G/F ELEVATOR LOBBY	
15	G/F AMENITY	
16	G/F CACF ROOM	
17	2/F RESIDENTIAL TO 14/F RESIDENTIAL	
18	STAIR #A SMOKE (P2 TO G/F)	
19	STAIR #B SMOKE (P2 TO G/F)	
20	STAIR #J SMOKE (G/F TO 9/F)	
21	STAIR #F SMOKE (G/F TO ELEV. MACH. RM.)	
22-53	STAIR #G SMOKE (G/F TO ELEV. MACH. RM.)	
54	STAIR #H SMOKE (G/F TO 5/F)	
55	STAIR #K SMOKE (14/F-ELEV. MACH. RM.)	
56-87	MECHANICAL PENTHOUSE (14/F)	
88	ROOF ELEVATOR MACHINE ROOM	
89	ELEVATOR "A" SHAFT & PIT	
90	ELEVATOR "B" SHAFT & PIT	
91	ELEVATOR "C" SHAFT & PIT	
92	SP #1 SMOKE	
93	SP #2 SMOKE	
94	AHU-1 DUCT SMOKE	
95	GARBAGE SHUTE	
96	LOADING DOCK (G/F)	
97	9/F AMENITY	
98-130	SPARES	

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SV-2	INCOMING FIRE MAIN ISOLATION	SPRINKLER ROOM
SV-3	DRY SPR. SYSTEM HEADER MAIN ISOLATION	SPRINKLER ROOM
SV-4	P-1 PARKING DRY SPR. SYSTEM	SPRINKLER ROOM
SV-5	P-2 PARKING DRY SPR. SYSTEM	SPRINKLER ROOM
SV-6	FIRE PUMP BY-PASS	SPRINKLER ROOM
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ELECTRICAL LEGEND			
LIGHTING			
	FLUORESCENT LIGHT FIXTURE TYPE AS INDICATED		
	NIGHT LIGHT OR LIGHT CONNECTED TO EMERGENCY POWER		
	CEILING MOUNTED POINTED LIGHT FIXTURE INSCRIBED LETTER DENOTES TYPE		
	RECESSED LIGHT FIXTURE INSCRIBED LETTER DENOTES TYPE		
	CAPPED CEILING LIGHT OUTLET		
	TRACK LIGHT		
	STRIPLIGHT		
	UNDER CABINET FLUORESCENT LIGHT FIXTURE		
	CEILING MOUNTED WALL MOUNTED EXIT SIGN		
	SINGLE-DUAL EMERGENCY LAMP REMOTE HEAD		
	EMERGENCY BATTERY PACK		
	OCCUPANCY SENSOR POWER PACKS		
	SINGLE/THREE POLE SINGLE/THREE POLE THROUGH TOGGLE SWITCH RESPECTIVELY, (3/4 P.O. DENOTES 3-WAY-4-WAY PULL LIGHT, OTHER SWITCHED LIGHT RESPECTIVELY)		
	MASTER LIGHTING SHUT-OFF SWITCH		
	SENSOR WALL SWITCH FIRE SELF POWERED		
	OCCUPANCY SENSOR CEILING MOUNTED		
POWER			
	REGULAR DUPLEX RECEPTACLE		
	DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER AS SPECIFIED FOR DRIVER		
	SINGLE RECEPTACLE TYPE AND CONFIGURATION AS SPECIFIED FOR DRIVER		
	CONNECTION FOR OVERCURRENT PROTECTION		
	ABOVE COUNTER DEVICE		
	CEILING MOUNTED DEVICES		
	FLOOR MOUNTED DEVICES		
	DISCONNECT SWITCH NON-FUSED		
	DISCONNECT SWITCH FUSED		
	COMBINATION STARTER		
	FRACTIONAL MOTOR/FULL DIRECT CONNECTION		
	DIRECT CONNECTION SINGLE PHASE		
	DIRECT CONNECTION THREE PHASE		
	THERMOSTAT		
	DOOR SENSOR		
	HEAT TRACE		
	ELECTRICAL HEATER		
	ELECTRICAL PANEL / SECURITY PANEL		
TELECOMMUNICATION			
	TV/CABLE OUTLET		
	TELEPHONE OUTLET		
	TELEPHONE CABLE (MULTI-PORT OUTLET)		
	DATA OUTLET		
	DATA/TELEPHONE OUTLET		
	IN SUITE TELECOMM. BOX C/U RECEPTACLE		
	SPLIT LOCATION		
	MUSIC SPEAKER / VOLUME CONTROL		
	RADIO RECEIVER		
SECURITY			
	INTERCOM / INTERPHONE		
	INTERCOM WITH CAMERA		
	PANIC BUTTON / PANIC INTERCOM STATION		
	CARD READER		
	AUTOMATIC RELEASE CARD ACCESS-RADIO RECEIVER		
	ELECTRIC STRIKE		
	PADLOCK		
	DOOR CONTACT / WINDOW CONTACT		
	GLASS BREAK DETECTOR		
	AUTOMATIC DOOR OPERATOR		
	MOTION DETECTOR		
	PUSH BUTTON		
	SECURITY CAMERA		
LIFE SAFETY			
	FIRE ALARM SMOKE DETECTOR		
	SMOKE ALARM		
	FIRE ALARM DUCT TYPE SMOKE DETECTOR		
	FIRE ALARM HEAT DETECTOR		
	FIXED TEMP. OR T. DRAGGER HEAT DETECTOR		
	MOISTURE PROOF HEAT DETECTOR		
	CO ALARM		
	COMBINATION SMOKE & CO ALARM		
	CO SENSOR / NO SENSOR		
	FIRE ALARM MANUAL PULL STATION		
	FIREFIGHTER'S HANDSET		
	FIRE ALARM STROBE/FLASHER, WALL MTD.		
	FIRE ALARM STROBE/FLASHER, WALL MTD.		
	FIRE ALARM SPEAKER/STROBE CEILING MTD.		
	FIRE ALARM SPEAKER CEILING MTD.		
	FIRE ALARM ANNUNCIATOR PANEL		
	FIRE ALARM CONTROL PANEL		
REVISIONS			
NOVA	DATE	DESCRIPTION	
02/23/14	1	ISSUED FOR TENDER	ST
02/23/14	2	RE-ISSUED FOR PERMIT	ST
02/23/14	3	ISSUED FOR PERMIT	ST
DATE	NO	REVISION	BY
*HARD COPY AND PRINTED REVISIONS MUST BE AVAILABLE FOR PERMIT DATE ABOVE			
REVISIONS			
CONTRACTOR HAS CHECKED REVISIONS AND ALL CHANGES AND CONDITIONS ON THIS JOB AND AGREES TO PERFORM THE WORK IN ACCORDANCE WITH THE PERMITS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND WILL BE RETURNED UPON COMPLETION OF THE WORK.			
DRAWINGS ARE NOT TO BE SCALED			
NOVA TREND CONSULTING REGISTERED PROFESSIONAL ENGINEER 02/23/14 ST-P, TM <i>Signature</i>			
175 West Beaver Creek Road, Unit 31 Richmond Hill, Ontario L4B 3M1 Tel: 905 882-5448 Fax: 905 882-5441 Email: cad@novatrend.com			
Fire Alarm SCHEDULES & DETAILS			
PROJECT TITLE:			
ALEXANDRA PARK			
38 CAMERON STREET, BLOCK II			
ONTARIO			
DRAWN BY:	DESIGNED BY:	SCALE:	
S.O.	S.T.	N.T.S.	
DATE:	PROJECT NUMBER:	DRAWING NUMBER:	
FEB. 13	1313	E-33	