FIRE PRC <u>.IST</u>

BASIC

X #

	ECTION SYMBOL LIST
BASIC	ECTION STIVIDUL LIST
F	FIRE STANDPIPE PIPING (STANDALONE)
	SPRINKLER PIPING
	DEMO SPRINLKER PIPING
DSP	DRY SPRINKLER PIPING
PA	PRE-ACTION SPRINKLER PIPING
DR	DRAIN PIPING
	PIPING BELOW SLAB
	EXISTING PIPING
	EXISTING WORK TO BE REMOVED
	HEAT TRACE / FREEZE PROTECTION CABLE & INSULATION
	SLOPED CHANGE IN PIPE ELEVATION
	BOTTOM PIPE CONNECTION
 ი	TOP PIPE CONNECTION
¹ Ti	SIDE CONNECTION
C	PIPE DOWN/DROP
0	PIPE RISE/UP
(-(PIPE SLOPE
<u>5</u> X	VALVE IN VERTICAL
I	UNION
	REDUCER
+	WATER PROOF SLEEVE
- -	SLEEVE
FE-X	FIRE EXTINGUISHER A - WATER B - DRY CHEMICAL
	C - GASEOUS (CO2 OR HALON 1211 - SEE SPEC.)
	FIRE HOSE VALVE w/FIRE EXTINGUISHER
\bigotimes	VALVE ASSEMBLY AC - ALARM CHECK DR - DRY PIPE PA - PRE ACTION
—	CONNECT TO EXISTING
— —	DISCONNECT FROM EXISTING
—C	FIRE DEPARTMENT SIAMESE CONNECTION (WALL MOUNTED)
$\langle \circ \rangle$	EXISTING FIRE HYDRANT
A state of the	NEW FIRE HYDRANT
\$	TEMPERATURE AND PRESSURE RELIEF VALVE
\$∠ √	PLUG VALVE
\bowtie	MIXING VALVE
\$	RELIEF VALVE
5	BALL VALVE
\bowtie	GATE VALVE
	GLOBE VALVE
Å	OUTSIDE SCREW & YOKE (OS & Y) VALVE
X N	CHECK VALVE
Ř	PRESSURE REDUCING VALVE (PRV)
× Z	SOLENOID VALVE
×1×	FLOAT VALVE
K.	
	Y STRAINER W/BLOW-OFF VALVE
RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
(#)	HYDRAULIC REF. POINTS # = ELEMENT, # = NODE
	TAMPER SWITCH
\square	WATERFLOW SWITCH
\smile	PRESSURE GALLGE W/GALLGE COCK

PRESSURE GAUGE w/GAUGE COCK

RISER DESIGNATION: X = RISER SERVICE; # = RISER NUMBER

EXTEND EXISTING SPRINKLER PIPING TO NEW SPRINKLER HEAD

FIRE PROTECTION ABBREVIATIONS

AUTOMATIC BALL DRIP AREA DRAIN ABOVE FINISHED FLOOR AUTOMATIC TRANSFER SWITCH

BOTTOM OF PIPE CUBIC FEET PER MINUTE CHECK VALVE

DIAMETER DOWN (PENETRATES FLOOR SLAB)

DRAIN EXISTING EXISTING TO BE REMOVED

EXISTING TO BE REMOVED & RELOCATED FLOOR DRAIN

FIRE HOSE CABINET FIRE HOSE RACK FIRE HOSE VALVE FIRE HOSE VALVE CABINET FLOOR FIRE PUMP

FIRE STANDPIPE FEET GALLONS GENERAL CONTRACTOR

GALLONS PER MINUTE GATE VALVE HEAT DETECTOR

INSIDE DIAMETER INCH

JOCKEY PUMP MAXIMUM

MINIMUM

NORMALLY CLOSE NOT IN THIS CONTRACT NORMALLY OPEN NOT TO SCALE

OUTSIDE DIAMETER OUTSIDE SCREW & YOKE GATE VALVE

PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH (GAUGE) POUNDS PER SQUARE INCH (ABSOLUTE)

RELOCATED EXISTING EXISTING TO REMOVED AND RETURN TO OWNER

SMOKE DETECTOR SPRINKLER

TOP OF PIPE TAMPER SWITCH

UNLESS OTHERWISE NOTED UP (PENETRATES FLOOR SLAB)

WFS WATER FLOW SWITCH

Z ZONE

FIRE PROTECTION DEMOLITION NOTES

MAINS. ALL ABANDONED PIPING TO BE REMOVED. 2. MAKE ANY NECESSARY TEMPORARY CONNECTIONS BETWEEN EXISTING AND NEW WORK TO MAINTAIN CONTINUOUS SERVICE OF ALL EXISTING SYSTEMS. MINIMIZE SHUTDOWNS. OBTAIN WRITTEN APPROVAL FROM ARCHITECT/OWNER FOR SHUTDOWNS. ALL SHUT-DOWNS REQUIRE 48 HOUR NOTICE TO OWNER.

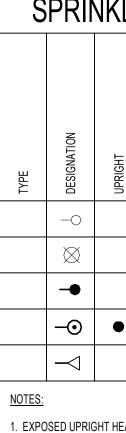
1. REMOVE EXISTING SPRINKLER HEADS AND PIPING IN THE AREA OF WORK, BACK TO EXISTING SPRINKLER

3. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS BEFORE STARTING ANY WORK. 4. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER BEFORE REMOVING OR RELOCATING ANY EXISTING PIPING NOT INDICATED ON DRAWINGS.

FIRE PROTECTION GENERAL NOTES

1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL FIRE PROTECTION DRAWINGS. 2. ALL WORK IS NEW UNLESS OTHERWISE NOTED.

- 3. ALL FIRE PROTECTION WORK SHALL BE IN ACCORDANCE WITH THE CURRENT FIRE PROTECTION CODE AND ALL APPLICABLE LOCAL CODES AND DRAWINGS.
- 4. REFER TO SPECIFICATION SECTION 01362 FOR GENERAL LEED REQUIREMENTS FOR COMMERCIAL
- INTERIORS. 5. REFER TO SPECIFICATION SECTION 01810 FOR LEED REQUIREMENTS FOR COMMISSIONING.
- 6. PROVIDE WET-PIPE SPRINKLERS IN ALL AREAS. PROVIDE DRY-TYPE SPRINKLER SYSTEM IN ALL AREAS
- WHERE AMBIENT TEMPERATURE IS 40 DEG F OR BELOW. 7. SECURE WATER FLOW TEST DATA TAKEN FROM FIRE HYDRANTS NEAREST SITE. IF RECENT FLOW TEST DATA IS NOT AVAILABLE FROM CITY RECORDS, MAKE NECESSARY TESTS AS REQUIRED BY NFPA STANDARDS TO DETERMINE CHARACTER OF WATER SUPPLY. MINIMUM OF 20 PSI DROP IN PRESSURE BETWEEN STATIC AND RESIDUAL PRESSURE SHALL BE REQUIRED IN ORDER TO OBTAIN ACCURATE DATA.
- 8. SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
- 9. ADD 10% CONTINGENCY FACTOR TO HYDRAULIC CALCULATIONS.
- 10. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILING SHALL BE AS INDICATED ON REFLECTED CEILING PLANS. 11. MINIMUM PRESSURE AT END SPRINKLER HEAD 7 PSI.
- 12. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13 AND FACTORY MUTUAL 0.5 2-8N.
- A. WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH LIGHTWALL PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA-13 SHALL BE INCREASED BY 39%. 13. MAXIMUM FLOW VELOCITY SHALL NOT EXCEED 20 F.P.S.
- 14. ALL AUTOMATIC SPRINKLER HEADS, PIPE FITTINGS, PIPE HANGERS, AUTOMATIC CONTROL VALVES AND MANUAL CONTROL VALVES SHALL BE UL LISTED AND BEAR FACTORY MUTUAL APPROVAL AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- 15. ALL EXPOSED PIPE, FITTINGS, HANGERS AND SUPPLEMENTARY STEEL SHALL BE PAINTED.
- 16. ENDS OF ALL CROSS MAINS SHALL BE PROVIDED WITH THREADED FLUSHING CONNECTION NO MORE THAN 2 INCHES IN DIAMETER.
- 17. PROVIDE AUXILIARY DRAINS FOR ALL PIPING BELOW DUCT SPRINKLERS AND OPEN TRAPPED SECTIONS. PIPING TO ONE SINGLE SPRINKLER IS EXCLUDED.
- 18. PROVIDE FLUSHING CONNECTIONS WHERE REQUIRED BY NFPA AND F.M.
- 19. COORDINATE WITH OWNER FOR ALL SHUTDOWNS. 20. PROVIDE TEST CONNECTIONS AT HIGHEST POINT OF MAIN PORTION OF EACH SPRINKLER SYSTEM, WITH 1"
- PIPE AND VALVE. TEST PIPE SHALL BE CONNECTED TO SPRINKLER PIPE AT LEAST 1-1/4" IN SIZE AND SHALL DISCHARGE OUTSIDE BUILDING OR THROUGH 1/2" SMOOTH BORE BRASS OUTLET, WHERE IT CAN BE EASILY SEEN.
- 21. PROVIDE ADDITIONAL HEADS UNDER DUCTWORK LARGER THAN 48" WIDE.
- 22. THE REUSE OF EXISTING SPRINKLER HEADS SHALL BE PROHIBITED.
- 23. NEW SPRINKLER HEAD TYPE AND TEMPERATURE RATING SHALL BE IN ACCORDANCE WITH SCHEDULE UNLESS NOTED OTHERWISE AND/OR REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION. 24. COORDINATE ALL PIPE PENETRATIONS AND CORING WITH STRUCTURAL ENGINEER AND IN ACCORDANCE
- WITH DIVISION 01. 25. REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING RELATED WORK.
- 26. COORDINATE ALL NEW FIRE PROTECTION WORK WITH ALL EXISTING AND/OR NEW DUCTWORK, PIPING AND UTILITIES OF ANY SYSTEMS. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE INTENT OF THE DESIGN. REROUTE ANY PIPING AROUND EXISTING AND/OR NEW SYSTEMS INCLUDING ALL REQUIRED FITTINGS AND SUPPORTS TO MAKE THE INSTALLATION OF THE PIPING AND SPRINKLER HEADS POSSIBLE. RESEAL ANY FIRE AND/OR SMOKE RATED PENETRATIONS THAT HAVE BEEN AFFECTED AS A RESULT OF THE MODIFICATION.
- 27. ALL COMPONENTS USED IN FIRE PROTECTION SYSTEMS SHALL BE IN ACCORDANCE WITH THE OWNER'S GUIDELINES, STANDARDS AND SPECIFICATIONS.



SPRINKLER HEAD SCHEDULE

KLE	KLER HEAD SCHEDULE																	
		E SPKR.		()	BRONZE FINISH)	DENT		ONSE	COVERAGE	EXIST SPR HO TO BE REMOVED		MANUFACTURER						
											KLER HD	CENTRAL	RELIABLE	GRINNELL	STAR	DNIXIN		REMARKS
UPRIGHT	PENDENT	FLUSH PLATE	RECESSED	SIDEWALL (CONCEALED)	SIDEWALL (NATURAL B	FLUSH PENDENT	Y	QUICK RESPONSE	EXTENDED (IST SPR H MOVED	EXIST SPRINKLER HD		•					
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										•								
		•						•				G5-56					K=5.6, 1/2" ORIFICE 165°F RATING, 135°F COVERPLATE	
•								•				F1FR56					K=5.6, 1/2" ORIFICE 155°F RATING	
				•				•				G6-56						K=5.6, 1/2" ORIFICE 155°F RATING, 135°F COVERPLATE

1. EXPOSED UPRIGHT HEADS IN OCCUPIED SPACES SHALL BE CHROME FINISH.

2. PROVIDE ESCUTCHEONS WHEN PENETRATING EXPOSED WALL.

3. PROVIDE SPRINKLER GUARDS AT ALL HEADS 7'-0" AND LOWER. 4. COLOR SELECTION BY ARCHITECT.

5. CORRIDOR SPRINKLER HEAD TO MATCH THERMAL SENSITIVITY WITH EXISTING SPRINKLER HEADS.



DRAWING TITLE

DRAWING No. F00-01 FIRE PROTECTION COVER SHEET FIRE PROTECTION BASEMENT PLAN F01-0B F02-00 FIRE PROTECTION DETAILS

