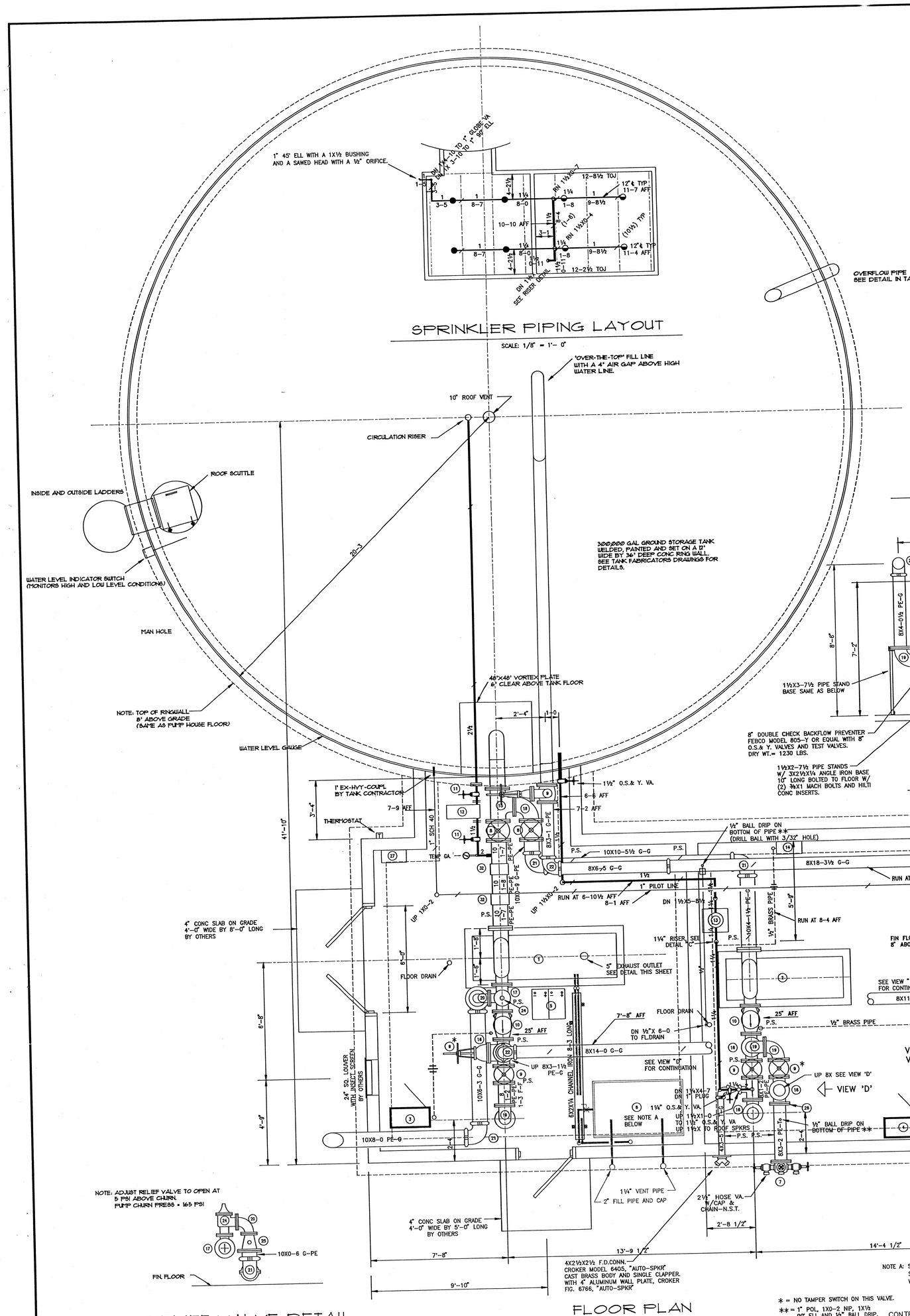
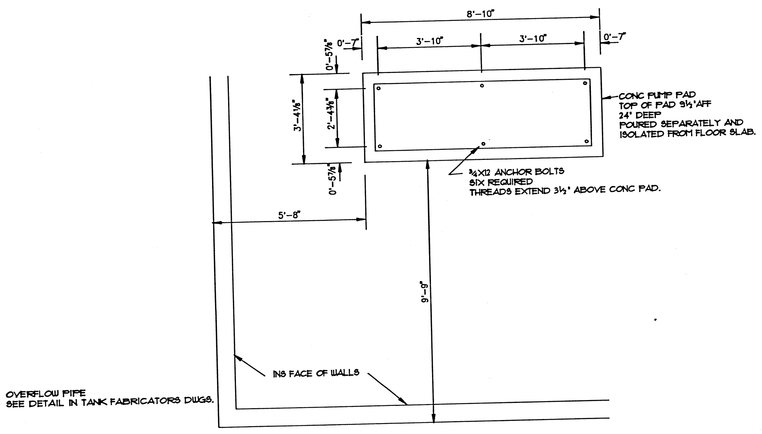


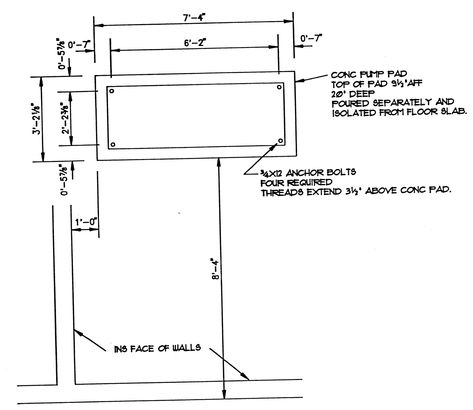
SPRINKLER PIPING LAYOUT

SCALE: 1/8" = 1'-0"

FLOOR PLAN



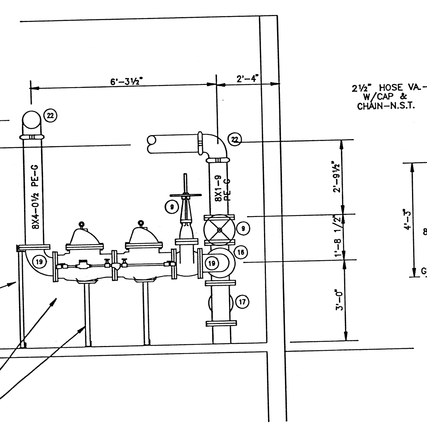
CONC PUMP PAD FOR DIESEL DRIVEN PUMP



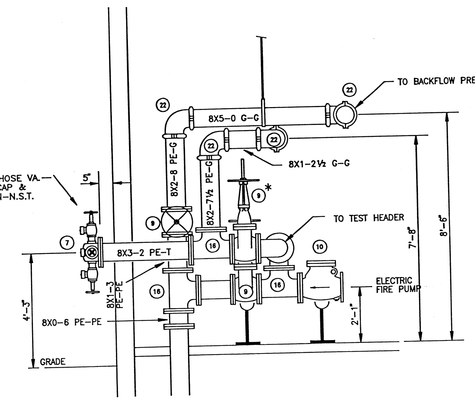
CONC PUMP PAD FOR ELECTRIC MOTOR DRIVEN PUMP

BILL OF MATERIALS

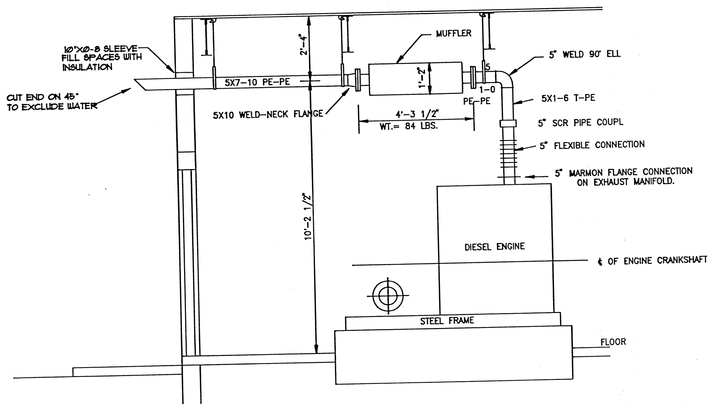
ITEM NO.	QUANTITY REQUIRED	DESCRIPTION
1.	1	DIESEL ENGINE DRIVEN FIRE PUMP, ITT A/C MOD 8000
		RATED AT 2000 GPM AT 125 PSI. CLOCKWISE ROTATION.
2.	1	ELECTRIC MOTOR DRIVEN FIRE PUMP, RATED AT 2000
		GPM AT 125 PSI. 200 HP 480 VOLTS CLOCKWISE ROT.
3.	1	DIESEL PUMP CONTROLLER, METRON SERIES FD2,
4.	1	ELECTRIC PUMP CONTROLLER, MODEL M300
5.	1	BATTERY RACK WITH TWO BATTERIES, 12 VOLT NEG GRND
6.	1	300 GAL DIESEL OIL STORAGE TANK WITH 2" PIPE LEGS
7.	1	TEST HEADER, WITH SIX 2½"ANGLE HOSE VALVES, AND
		WITH CAPS AND CHAINS. SIX 2½X0-4 GALV NIPPLES.
8.	2	10" O.S.& Y. VALVES, WITH TAMPER SWITCH SPDT
9.	8	8" " " " " " "
10.	2	8" HORIZONTAL SWING CHECK VALVE, KENNEDY 126-A
		OR EQUAL.
11.	4	1½" O.S.& Y. VALVE
12.	1	TEEL IN-LINE CIRCULATOR PUMP, ¾ HP GRAINGER
		STOCK #2P436, 115/230 1 PHASE 1½" FLG'S
13.	1	JOCKEY PUMP, 30 GPM AT 150 PSI, MODEL CR4-120U
		5 HP 480 VOLTS.
14.	1	JOCKEY PUMP CONTROLLER, METRON SERIES M14
15.	1	10X10X10 FLG'D TEE
16.	5	8X8X8 " " "
17.	2	8X8X6 " " "
18.	1	10" FLG'D 90° ELL
19.	5	8" " " "
20.	1	6" " " "
21.	4	10" GRV'D 90° ELL
22.	10	8" " " "
23.	1	6" ALTITUDE VALVE, GOLDEN-ANDERSON MODEL 3200-D,
		WITH PILOT CONTROLS.
24.	1	6" RELIEF VALVE, MUSCO BAKER-6, 125# BODY
25.	1	6X10 WASTE CONE, ENCLOSED, 125# FLANGES
26.	1	8X13½ SCREW FLANGE, 125#
27.	1	STARTER FOR CIRCULATION PUMP
28.	1	6" GRV'D 90° ELL
29.	2	6" O.S.& Y. VA.
30.	1	2X0-11 PIPE STAND
31.	1	THERMOSTAT, #A19ABC-24, BIG M CONTROLS - 3325
		WINCHESTER CONTROL FOR CIRCULATOR PUMP.
32	2	10" DRESSER COUPLINGS, STAB-38



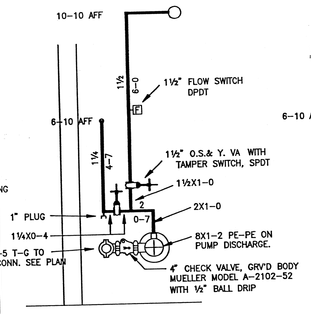
VIEW "C"



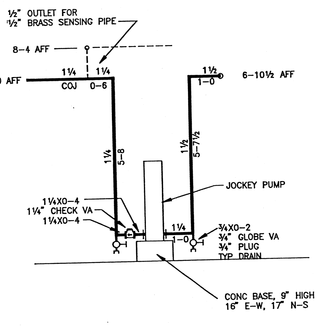
VIEW "D"



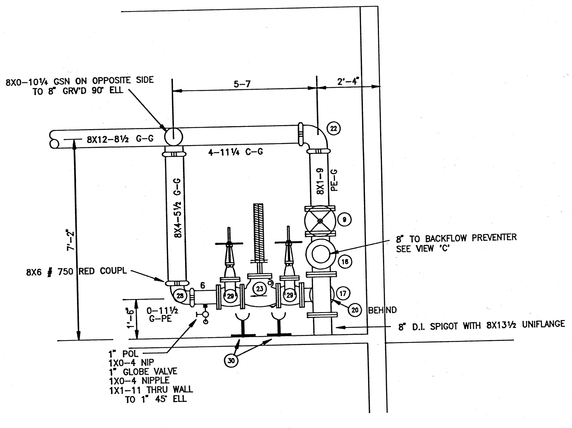
EXHAUST SYSTEM DETAIL



SPRINKLER RISER



DETAIL "C"



VIEW "B"

NOTE: THE FIRE PUMP AND PUMP HOUSE INSTALLATION WILL BE AS REQUIRED BY NFPA PAMPHLET 20, 1990 ED. REFER TO CHAPTERS 2, 3, 8 AND 9 FOR REQUIREMENTS.

THE PUMP HOUSE SHALL BE PROVIDED WITH A UNIT HEATER OF A SUFFICIENT SIZE TO MAINTAIN A MINIMUM TEMPERATURE OF 10°.

PUMP HOUSE CONSTRUCTION BY OTHERS.

PUMP HOUSE and TANK

NOTE: ADJUST RELIEF VALVE TO OPEN AT 5 PSI ABOVE CHURN. PUMP CHURN PRESS = 165 PSI

RELIEF VALVE DETAIL

NOTE A: SET THE ELEVATION OF THE TANK SO THAT THE TANK OUTLET IS EVEN WITH THE FUEL PUMP CENTER LINE.

* = NO TAMPER SWITCH ON THIS VALVE.
** = 1" POL, 1X0-2 NIP, 1X½ 90° ELL AND ½" BALL DRIP.

SPRINKLER HEAD SUMMARY

QTY	MAKE AND MODEL	TEMP	DESCRIPTION
4	RELIABLE MODEL C	212°	BRZ UPRIGHT, ½" ORIFICE
4	RELIABLE MODEL C	286°	BRZ UPRIGHT, ½" ORIFICE

REVISION

NO	DATE		BY
1	5-15-91	ADDED (1) F.D.CONN, (2) 8" BACKFLOW PREVENTER IN CITY	
		BY-PASS, (3) LEVEL INDICATOR SWITCH ON TANK WALL.	GFC
2	6-12-91	RELOCATED DOORS, GEN. REVISIONS FOR STOCKLISTING	GFC
3	6-27-91	REMOVED TEST HEADER FROM DIESEL PUMP, INTERCONNECT	
		WITH ELECTRIC PUMP TEST HEADER.	GFC
4	7-11-92	REVISED PER AS BUILTS	BW

CONTRACTORS LICENSE NO. _____

RME LICENSE NO. _____

RME SIGNATURE _____

SECURITY FIRE PROTECTION, INC.

P.O.BOX 18333
MEMPHIS, TN. 38118
(901) 362-6250

TENNESSEE DISTRIBUTION, INC.
PINEY FLATS, TENNESSEE

APPROVING AUTHORITY: OWNERS UNDERWRITERS
HAZARD CLASSIFICATION: SYSTEM AREA:
DENSITY: GPM/SQ.FT. OPERATING AREA:
TOTAL SYSTEM REQUIREMENTS: GPM AT: PSI
SQ.FT./SPKR: HOSE STREAM ALLOWANCE: GPM
SYSTEM TYPE: (WET, DRY, DELUGE OR PREACTION) C FACTOR:
WATER SUPPLY INFORMATION
STATIC: FLOW: TEST CONDUCTED BY:
RESIDUAL: DATE: TEST WITNESSED BY:

SCALE: ⅜" = 1'-0"

SHEET NO. 2 OF

DRAWN BY: G. CHAMPION
CHECKED BY:
DATE: APR 23, 1991
PLANS PREPARED AT MEMPHIS ENG.OFFICE
CONTRACT NO. 90-2105

DRAWING LAST EDITED: 06/27/91