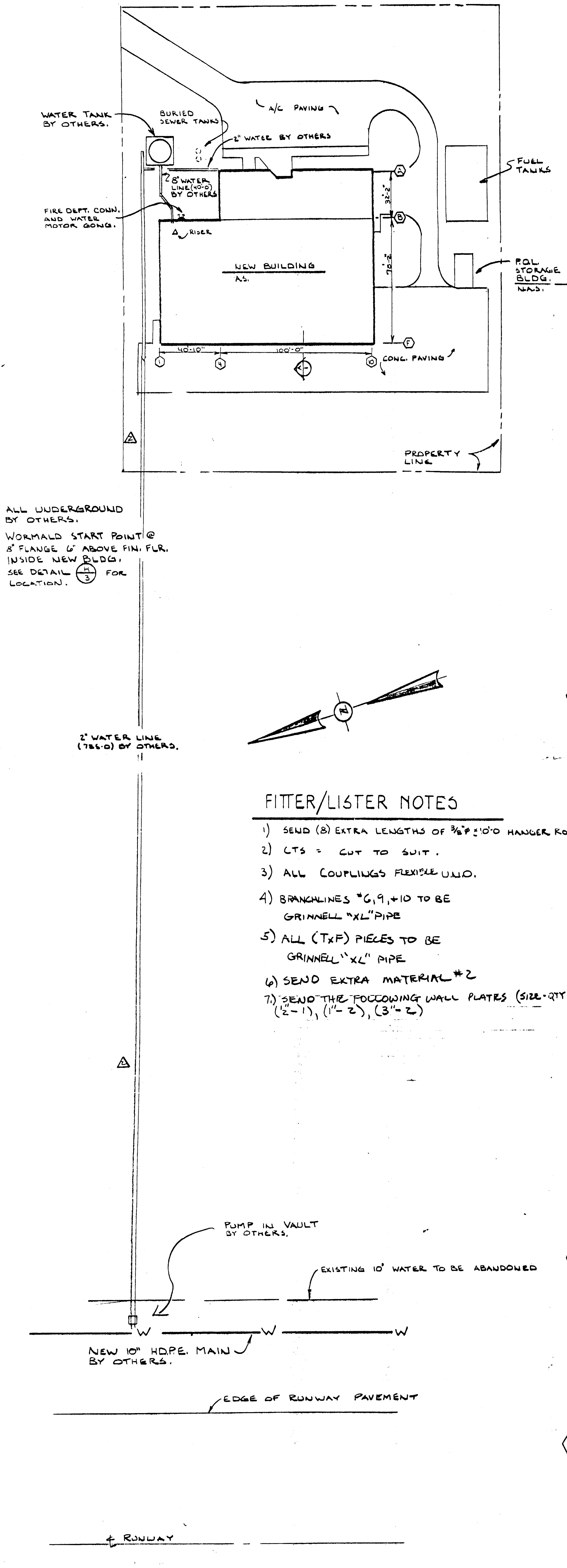


NOTE - ALL UNDERGROUND BY OTHERS.

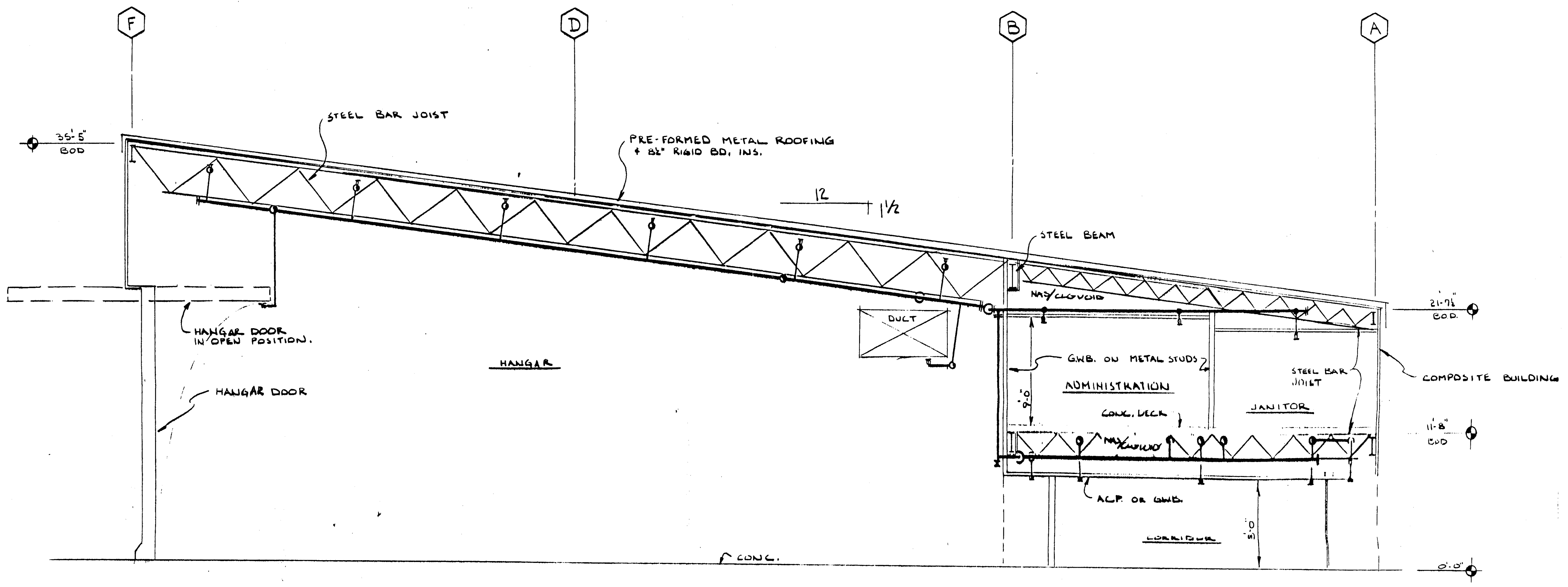
WORMALD START POINT @ 8" FLANGE 6" ABOVE FIN. FLR. INSIDE NEW BLDG. SEE DETAIL H/3 FOR LOCATION.

SITE PLAN

SCALE: 1" = 50'-0"

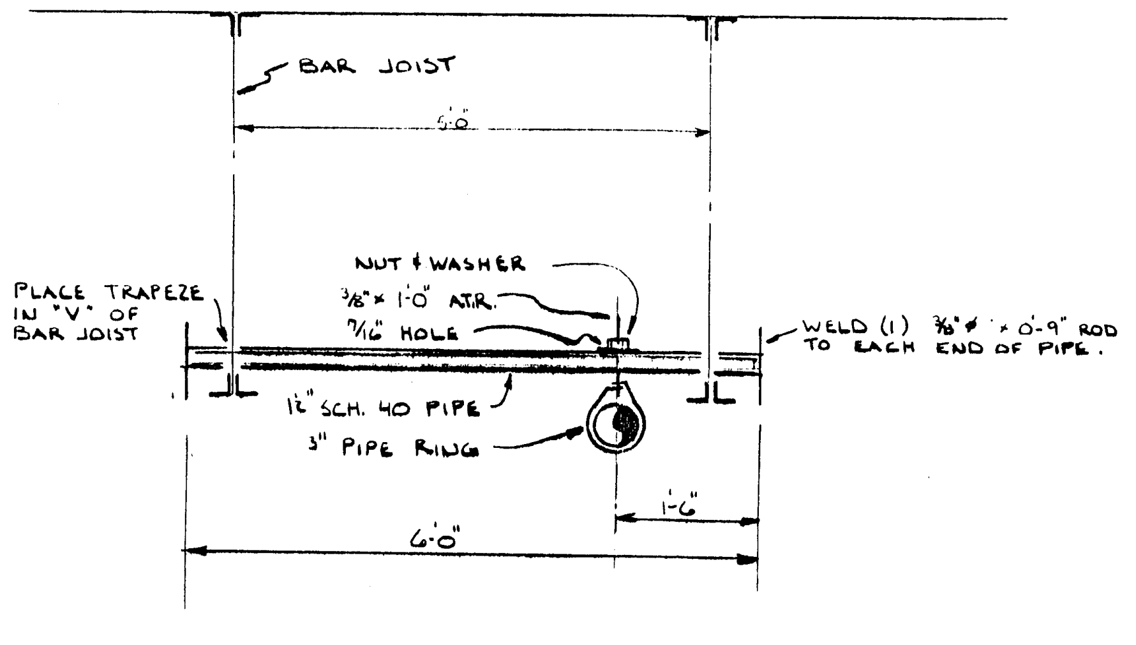
FITTER/LISTER NOTES

1) SEND (8) EXTRA LENGTHS OF 3/8"φ x 10'-0 HANGER ROD.
2) CTS = CUT TO SUIT.
3) ALL COUPLINGS FLEXIBLE U.N.O.
4) BRANCHLINES #6, 9, + 10 TO BE GRINNELL "XL" PIPE
5) ALL (TxF) PIECES TO BE GRINNELL "XL" PIPE
6) SEND EXTRA MATERIAL #2
7.) ~~SEND THE FOLLOWING~~ WALL PLATES (SIZE - QTY) (1/2"-1), (1"-2), (3"-2)



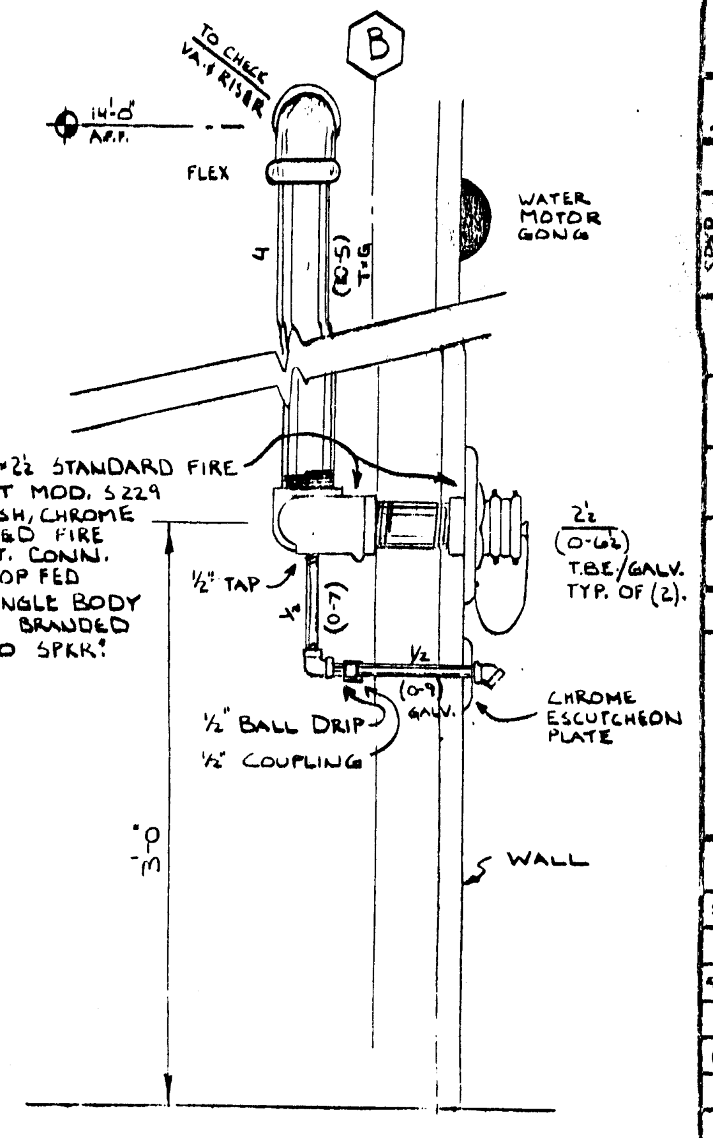
A/1 CROSS-SECTION

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



HANGER DETAIL "T1"

SCALE 1/2" = 1'-0"


B
TO CHECK VA. + RISER
14'-0" A.F.F.
FLEX
4
(10-5) T+G
WATER MOTOR GONG
4x2½x2½ STANDARD FIRE WEST MOD. S229 FLUSH, CHROME PLATED FIRE DEPT. CONN. W/ TOP FED 90° ANGLE BODY AND BRANDED "AUTO SPKR."
½" TAP
(0-7)
2½ (0-6½) T.B.E./GALV. TYP. OF (2).
½ (0-9) GALV.
½" BALL DRIP
½" COUPLING
CHROME ESCUTCHEON PLATE
3'-0"
WALL

B/1 FIRE DEPT. CONN. DETAIL

HANGER LEGEND	
A	"U" HOOK
B	COACH SCREW ROD
C	"C" CLAMP
D	TOP BEAM CLAMP
E	EYE ROD
F	FLUSH SHELL
G	CEILING FLANGE
H	SIDE BEAM BRACKET
J	"J" BOLT
K	SHORT CLIP
L	"L" ROD
M	MACHINE THREADED ROD
N	TOGGLE NUT
P	POWDER DRIVEN STUD
R	WEDGE ANCHOR
T	SEE DETAIL
U	
V	
W	
X	
Y	

- ⟶ 2 - WAY EARTHQUAKE BRACE
- ✢ 4 - WAY EARTHQUAKE BRACE
- ○ STRUCTURE TO CENTER LINE OF PIPE IN INCHES

SPRINKLER LEGEND

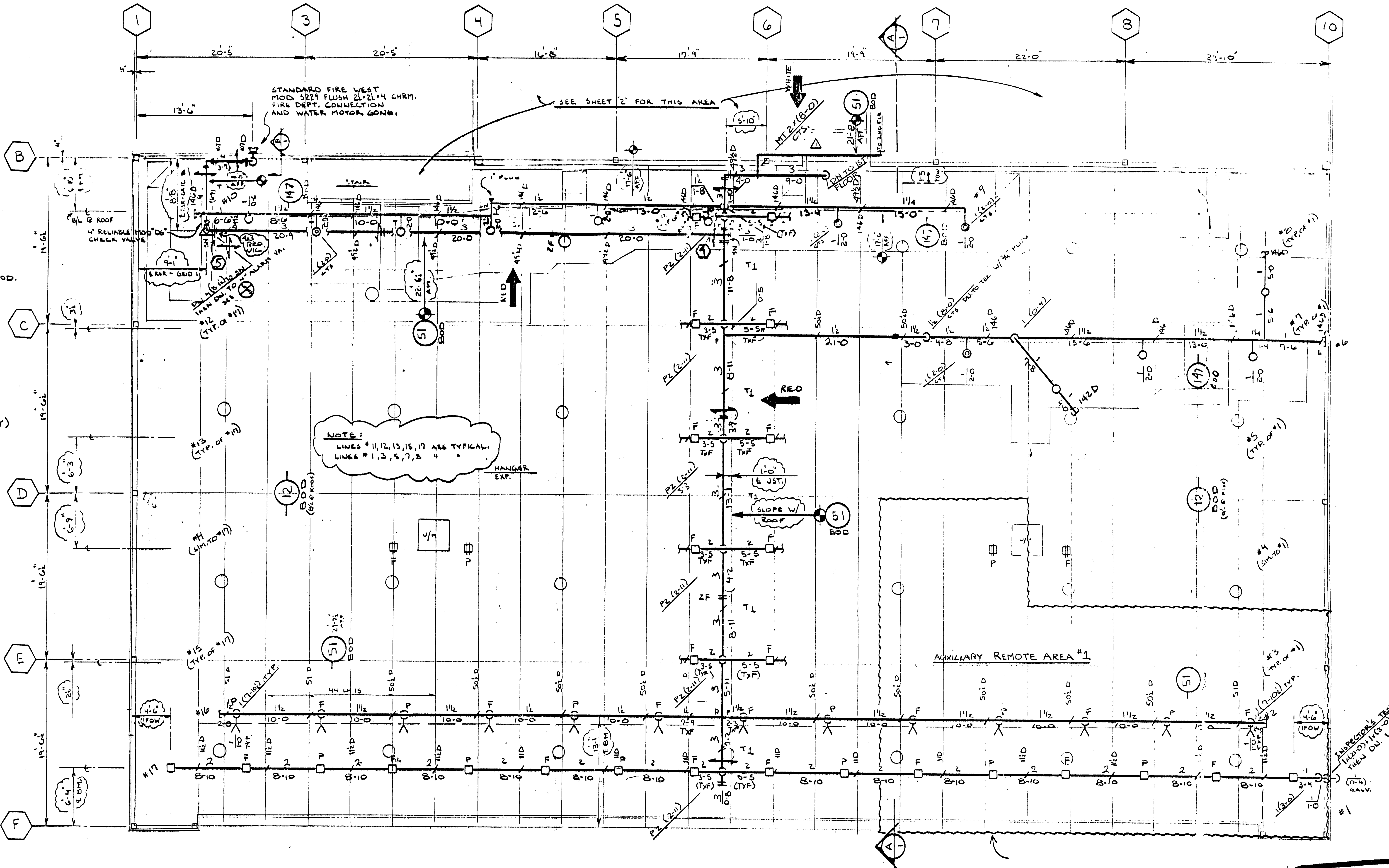
SPKR THRDS	SPRINKLER ORIFICE SIZES AND TYPE	UPRIGHT	PENDENT	TEE SIZE
1"	5/16 3/8 7/16 1/2 SPRAY	○	◉	1/2"
		◎	●	1"
3/4"	17/32 SPRAY	□	▣	3/4"
		◘	■	1"
1/2"	3/8 7/16 1/2 SIDEWALL	◁	◀	1/2"
		◁	◀	1"
1"	1/2 DRY TYPE	◇	◈	1"
		◇	◆	1"

TEMP. RATING	
○	165°
⊖	212°
⊖	286°
●	350°
●	500°

SPRINKLERS UP AND DOWN		
OPENING UP	SYMBOL	OPENING DOWN
1/2	◑	1
1	◑	1/2
1	◑	1
1/2	◑	1/2

SPRINKLERS USED

SYM	SPRINKLER ORIFICE SIZE, TYPE & FINISH	QUAN	TEMP
□	17/32" SSU. BRZ. REL.	92	165°
⊟	" " " REL.	4	286°
<	1/2" HSSW. BRZ. REL.	13	165°
○	1/2" SSU BRZ. REL.	13	165°



SPRINKLER PLAN - HANGAR

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

FITTING LEGEND		[illegible] REQUIRED
C	MEYER[illegible]	OWNER / [illegible]
F	VICTAULIC "FIT"	ISO
M	MICHIGAN "SLIP-LOK"	STATE FIRE MARSHAL
P	PIPE-O-LET	
SN	SHAPED NIPPLE	DISTRIBUTION
Z	ITT GRINNELL "EASE-TEE"	
FLEX	FLEXIBLE GROOVED COUP.	
MT	VICTAULIC "MECH. TEE	
ZF	ZERO FLEX	

QUALITY CONTROL BY	SO	DATE	1-18-89
APPROVED FOR FABRICATION BY		DATE	5/30/89
APPROVED FOR INSTALLATION BY		DATE	

GENERAL NOTES

1. ALL MATERIAL AND EQUIPMENT TO BE NEW AND UNDERWRITERS APPROVED.
2. PIPING DIMENSIONS ARE CENTER TO CENTER EXCEPT RISER & DIMENSIONS SHOWN THUSLY (1-6) WHICH ARE END TO END.
3. EARTHQUAKE BRACING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA PAMPHLET NO. 13-1983, SECTION 3-10.3.5.
4. PIPE HANGERS AND METHOD OF HANGING TO BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, SECTION 3-15.
5. PIPING SHALL BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, SECTION 3-1.
6. JOINING OF PIPE AND FITTINGS, THREADED AND WELDED SHALL BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, SECTIONS 3-12 AND 3-13.
7. OWNER TO PROVIDE ADEQUATE HEAT TO PREVENT WATER IN PIPES FROM FREEZING IN AREAS PROTECTED BY A WET PIPE SPRINKLER SYSTEM.
8. ALL WIRING OF ELECTRICAL DEVICES (IF REQUIRED) TO BE PROVIDED BY OTHERS
9. PAINTING OF PIPE AND EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS
10. FURRING OF PIPE AND EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS

DESIGN CRITERIA AND PIPE NOTES

SPRINKLER SYSTEM HYDRAULICALLY CALCULATED TO DELIVER .21 G.P.M./SQ.FT. OVER 1500 #, (ORDINARY HAZARD GP. III)

PIPE TO BE BLACK STEEL, DOMESTIC, SCH. 10 OR 40.

REVISIONS			
MK	DATE	BY	
1	11-7-89	A.B.	AS-BUILT
2	8/16/90	DLW	AS-BUILT PER OWNERS REVIEW

CONTRACT WITH:

S.A.J. MECHANICAL INC.
8221 DIMOND HOOK DR.
ANCHORAGE ALASKA 99507
CONTACT: TIM JACQUES (907) 344-3200

CONTRACT NAME:

NOME HANGAR AAOF.

NOME, ALASKA

WORMALD
FIRE SYSTEMS
6108 PETERSBURG ST.
ANCHORAGE, ALASKA 99507
PH. (907) 563-3585

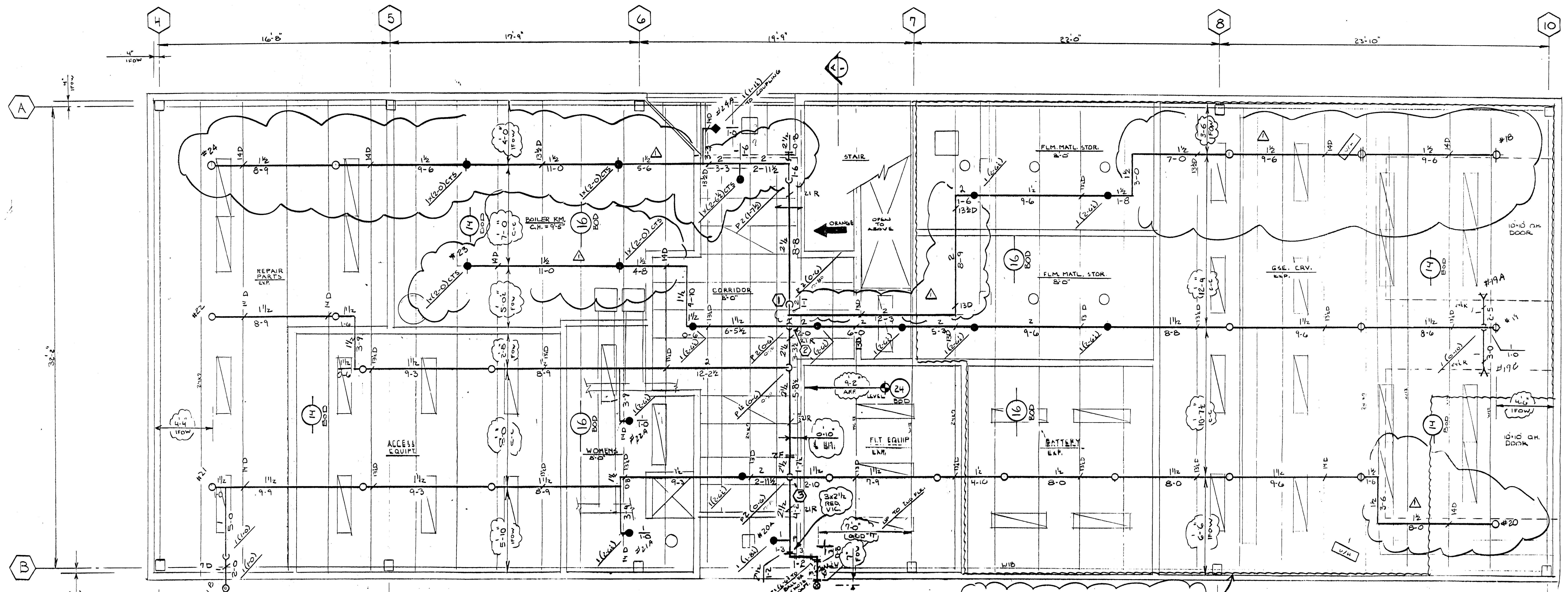
DESIGNER	DATE	SHEET	JOB NO.
M. OUELLETTE	1-19-89	1 OF 3	2500105[illegible]

FP-1

HANGAR SPRINKLER PLAN

AS - BUILT

11-7-89



FIRST FLOOR SPRINKLER PLAN

SCALE ¼" = 1'-0"

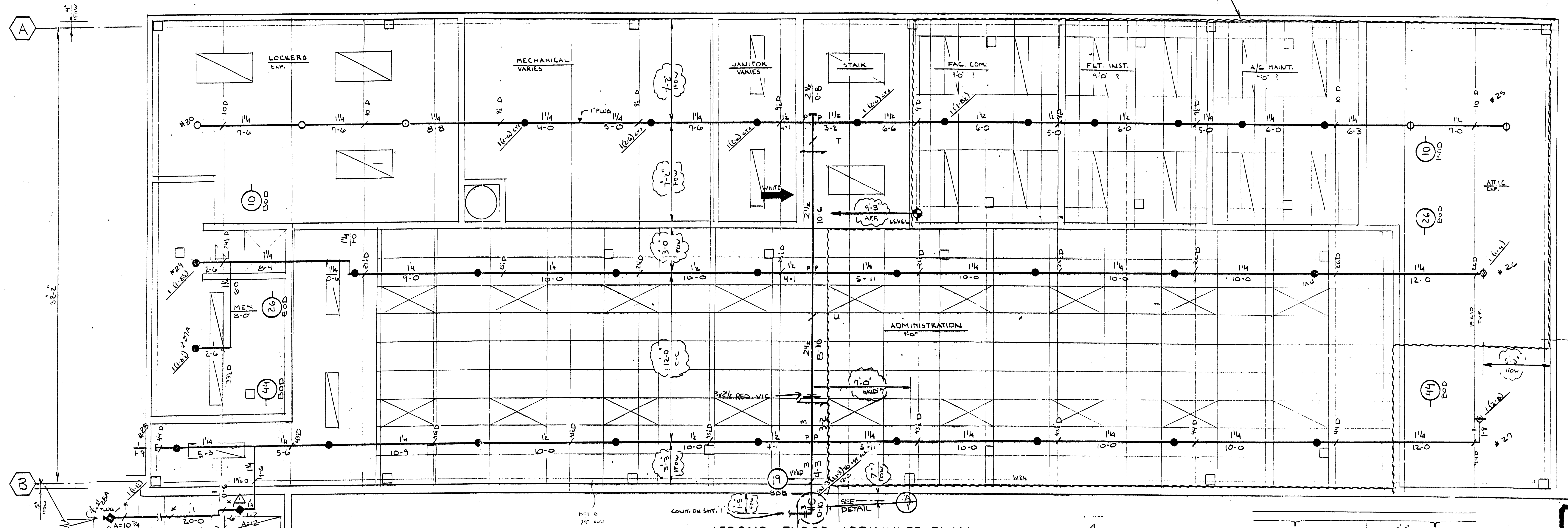
HYDRAULICALLY MOST DEMANDING AREA as outlined above

SYSTEM DEMAND: 433.62 GPM REQUIRED AT 92.25 PSI AT BASE OF WATER TANK

BASIS OF DESIGN: DENSITY OF .21 GPM OVER 1500#

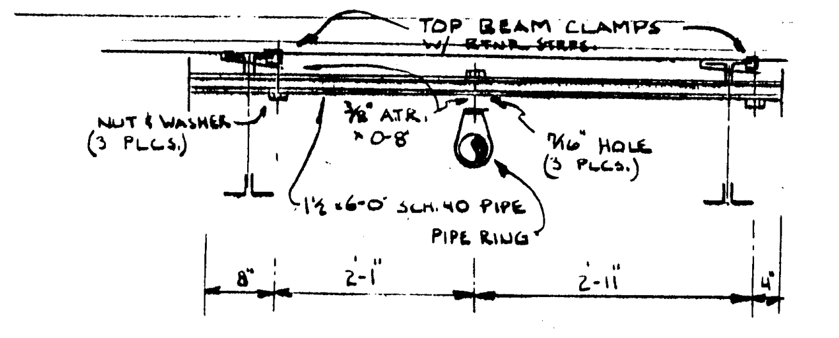
CRITERIA SOURCE: SPECIFICATIONS

AUXILLIARY REMOTE AREA #2
.16/1500#



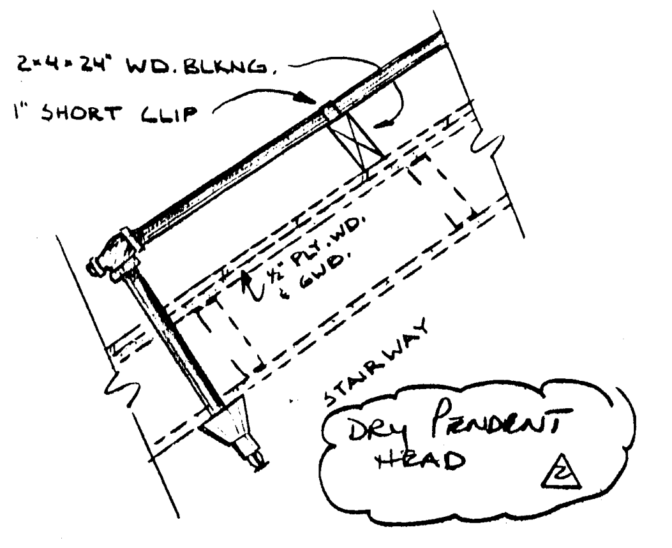
SECOND FLOOR SPRINKLER PLAN

SCALE ¼" = 1'-0"



"T" TRAPEZE HANGER DETAIL

SCALE: ½" = 1'-0"



PIPING SECTION

A/2 N.T.S.

	HANGER LEGEND
A	"U" HOOK
B	COACH SCREW ROD
C	"C" CLAMP
D	TOP BEAM CLAMP W/RETAINER STRAPS
E	EYE ROD
F	FLUSH SHELL
G	CEILING FLANGE
H	SIDE BEAM BRACKET
J	"J" BOLT
K	SHORT CLIP W/2×4×24" WD. BLK. - SEE DETAIL A/2
L	"L" ROD
M	MACHINE THREADED ROD
N	TOGGLE NUT
P	POWDER DRIVEN STUD
R	WEDGE ANCHOR
T	SEE DETAIL
U	SEE DETAIL
V	
W	"U" BOLT W(2) TOP BM CPS. & RTNR. STRPS.
X	
Y	

2 - WAY EARTHQUAKE BRACE
4 - WAY EARTHQUAKE BRACE
STRUCTURE TO CENTER LINE OF PIPE IN INCHES

SPRINKLER LEGEND

SPKR THRDS	SPRINKLER ORIFICE SIZES AND TYPE	UPRIGHT	PENDENT	TEE SIZE
½"	5/16 3/8 7/16 1/2 SPRAY	○	◉	1/2"
		◎	●	1"
¾"	17/32 SPRAY	□	▣	3/4"
		▣	■	1"
½"	3/8 7/16 1/2 SIDEWALL	△	▲	1/2"
		▲	▲	1"
1"	1/2 DRY TYPE	◇	◈	1"
		◈	◆	1"

TEMP. RATING	
○	165°
⊖	212°
⊜	286°
●	350°
■	500°

SPRINKLERS UP AND DOWN: OPENING UP	SYMBOL	OPENING DOWN
1/2	◐	1
1	◉	1/2
1	◉	1
1/2	◉	1/2

SPRINKLERS USED

	SYM	SPRINKLER ORIFICE SIZE, TYPE & FINISH	QUAN	TEMP
RASCO	○	½", SSU., BRZ.	21	165°
"	⊖	" " "	7	212°
"	⊜	" " "	2	286°
"	●	½", SSP., BRZ. W/CHM. 401	41	165°
"	⊖	" " " " "	4	212°
"	<	½", H.S.S.W., BRZ.	2	212°
	◆	½" D.P. FLUSH BRZ.		
		CENTRAL "A" A-15"	3	165°
		A-[illegible] A-12		
		TOTAL	80	

FITTER/LISTER NOTES

1) ALL DROPS TO BE 1 (0-8½) UNO.
2) ALL COUPLINGS TO BE FLEXIBLE UNO.
3) ALL BRANCHLINE PIPING TO BE GRINNELL "XL" THIS SHEET
4) SEND EXTRA MAT. #2
5.) SEND THE FOLLOWING WALL PLATES (SIZE - QTY) (1¼"-4), (1"-2), (1½"-4), (3"-2)

	FITTING LEGEND
C	MEYERTECH
F	VICTAULIC "FIT"
M	MICHIGAN "SLIP-LOK"
PI	PIPE-O-LET
SN	SHAPED NIPPLE
Z	ITT GRINNELL "EASE-TEE"
ZF	ZERO FLEX

APPROVALS REQUIRED
OWNER / ARCH.
I.S.O.
STATE FIRE MARSHALL

DISTRIBUTION

QUALITY CONTROL BY SD DATE 1-18-89
APPROVED FOR FABRICATION BY Dan W. DATE 5/30/89
APPROVED FOR INSTALLATION BY DATE

GENERAL NOTES

1. ALL MATERIAL AND EQUIPMENT TO BE NEW AND UNDERWRITERS APPROVED.
2. PIPING DIMENSIONS ARE CENTER TO CENTER EXCEPT RISER & DIMENSIONS SHOWN, THUSLY (1-6) WHICH ARE END TO END.
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9. PAINTING OF PIPE AND EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS
10. FURRING OF PIPE AND EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS

DESIGN CRITERIA AND PIPE NOTES

SPRINKLER SYSTEM HYDRAULICALLY CALCULATED TO DELIVER .21 GPM./SQ.FT. FOR 1500#, (ORDINARY HAZARD GP. III)
FOR OFFICE AREA .16 GPM/SQ.FT FOR 1500#. (ORDINARY HAZARD GP. I)
PIPE TO BE BLACK STEEL, DOMESTIC SCH. 10 OR 40.

REVISIONS

MK	DATE	BY	
1	11-7-89	AB	AS-BUILT
2	8/16/90	DLW	AS-BUILT PER OWNERS REVIEW

CONTRACT WITH:
S.A.J. MECHANICAL INC.
8221 DIMOND HOOK DR.
ANCHORAGE, ALASKA 99507
CONTACT: TIM JACQUES (907) 344-3200

CONTRACT NAME:

NOME HANGAR A.A.O.F.

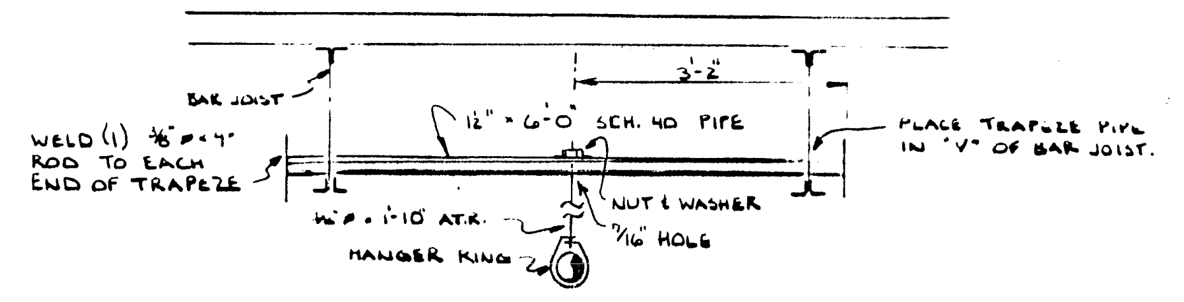
NOME, ALASKA

WORMALD
FIRE SYSTEMS
6108 PETERSBURG ST.
ANCHORAGE ALASKA 99507
PH. (907) 563-3585

DESIGNER	DATE	SHEET	JOB NO.

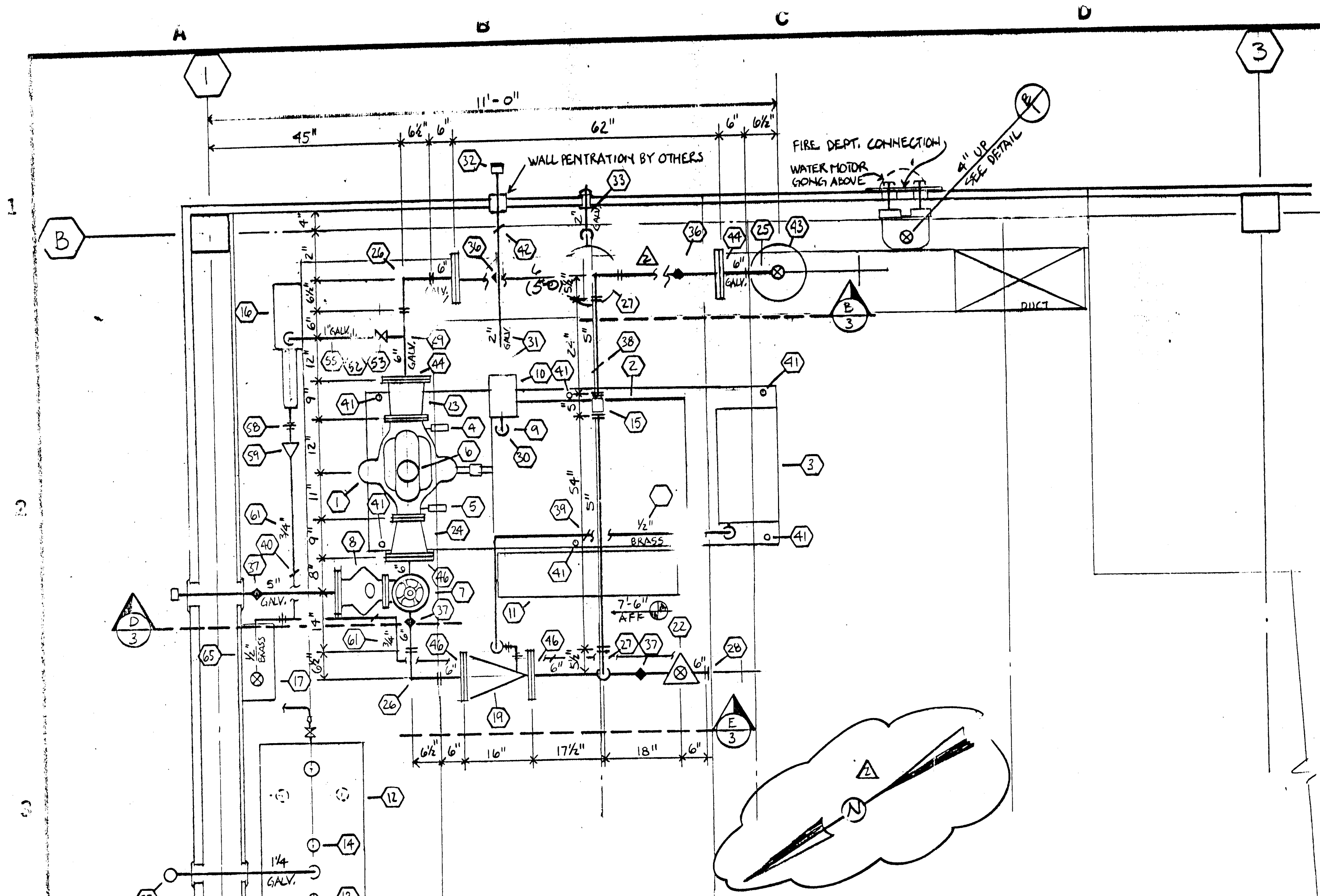
FP-2

AS-BUILT 11-7-89
2ND FLOOR SPRINKLER PLAN

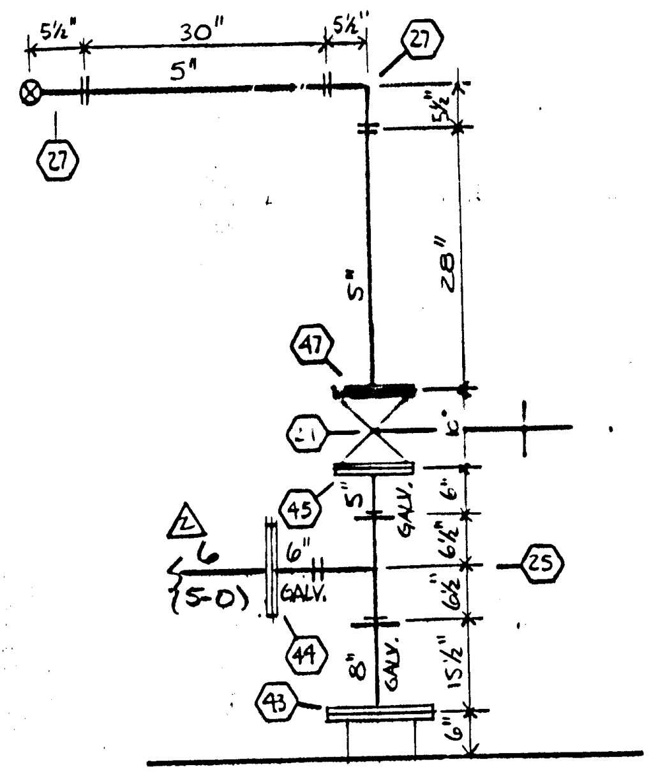


"U" TRAPEZE HANGER DETAIL

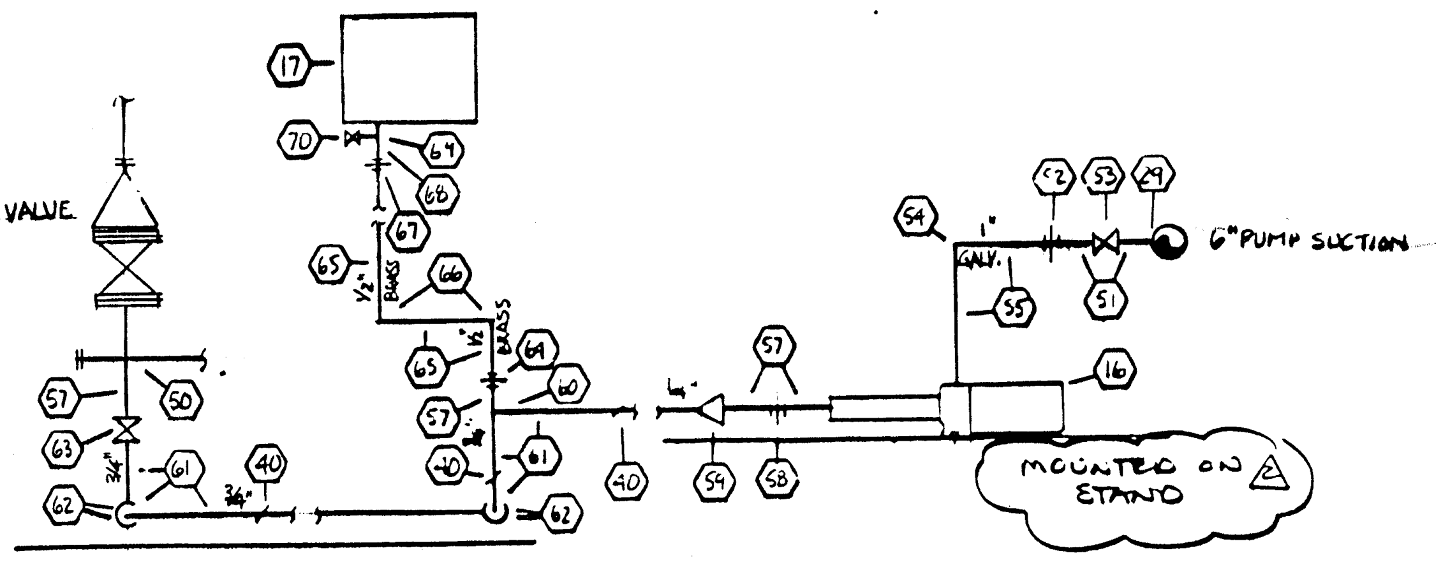
SCALE: ½" = 1'-0"



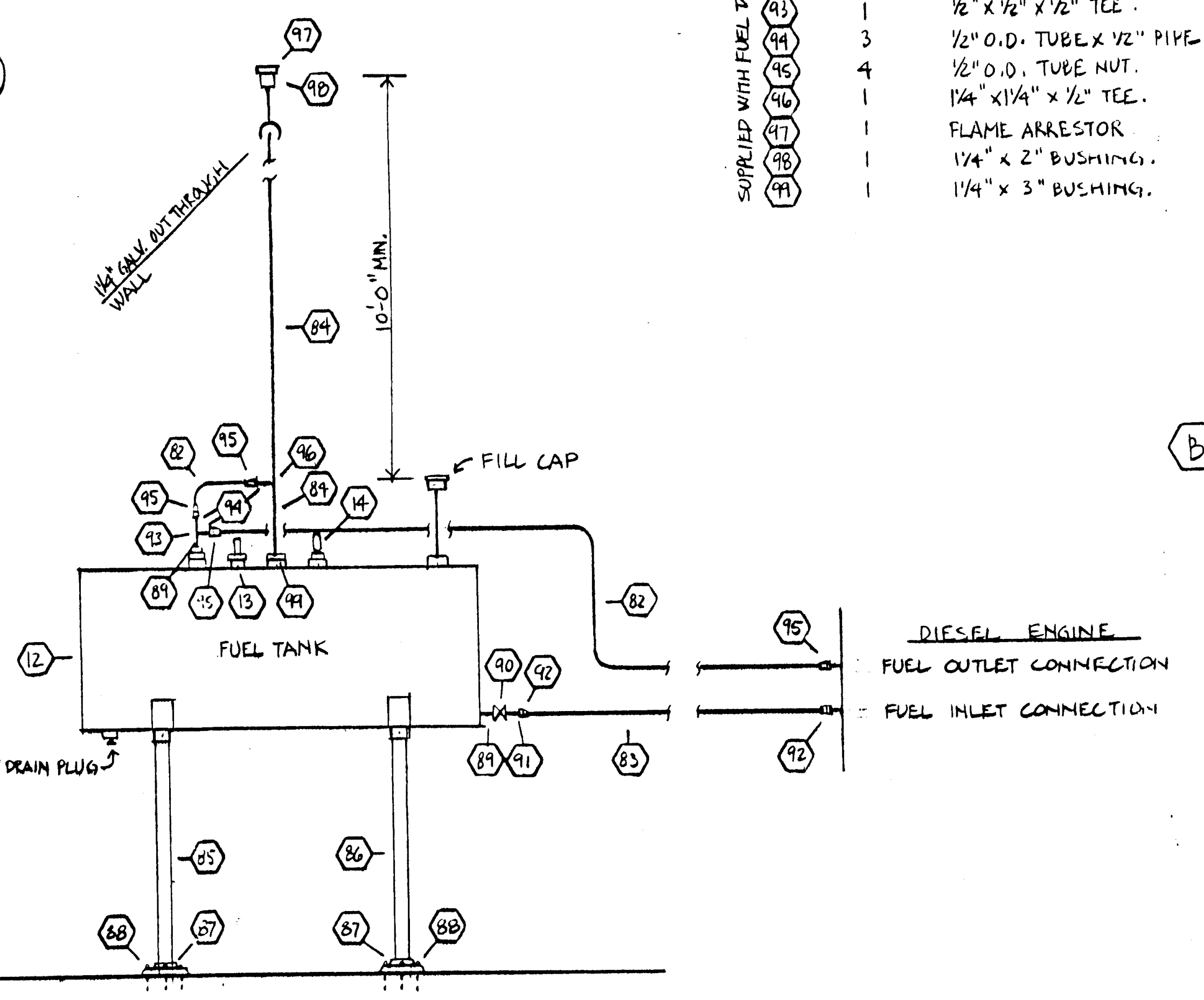
A/3 FIRE PUMP PLAN
SCALE: 1/2" = 1'-0"

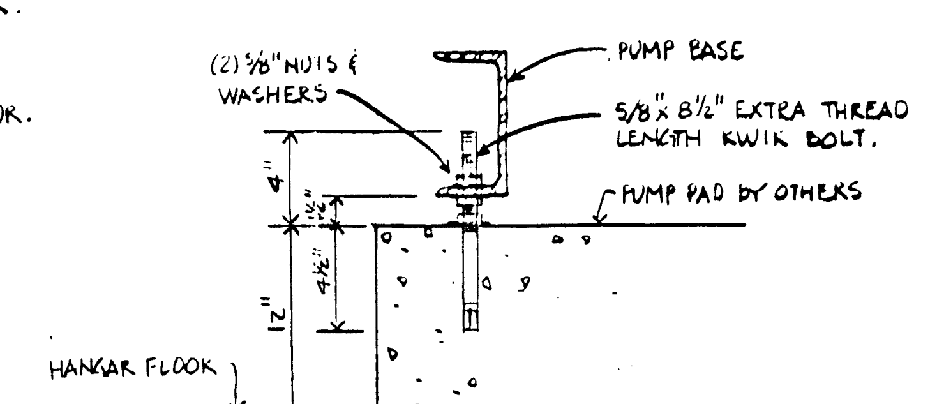


B/3 PIPING DETAIL
SCALE: 1/2" = 1'-0"

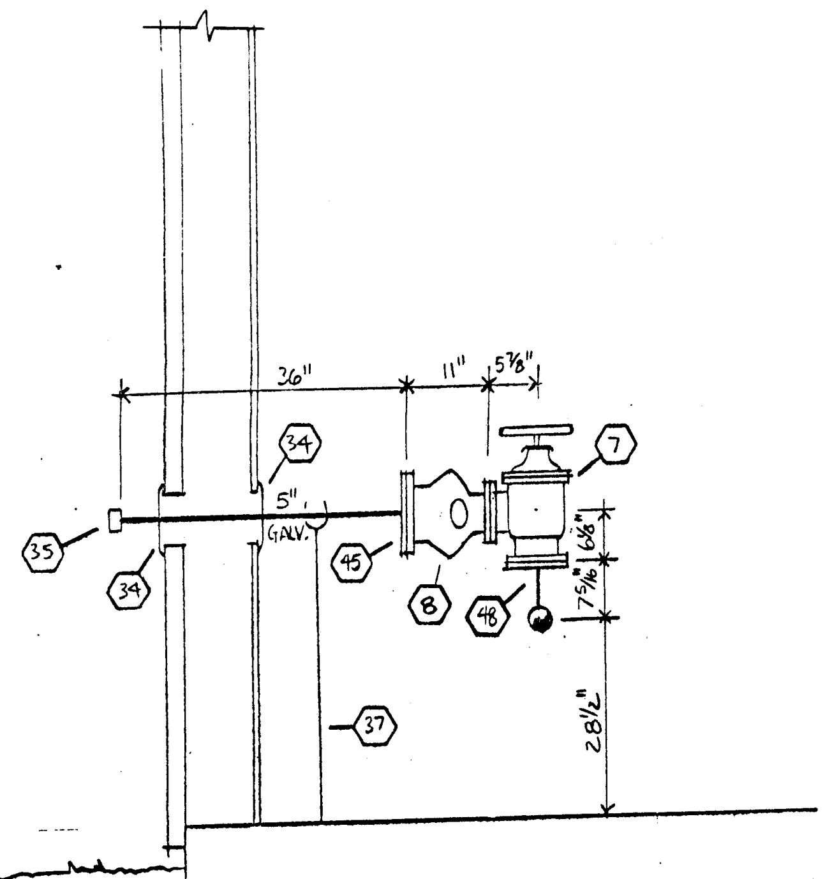


C/3 JOCKEY PUMP DETAIL
SCALE: 1/2" = 1'-0"

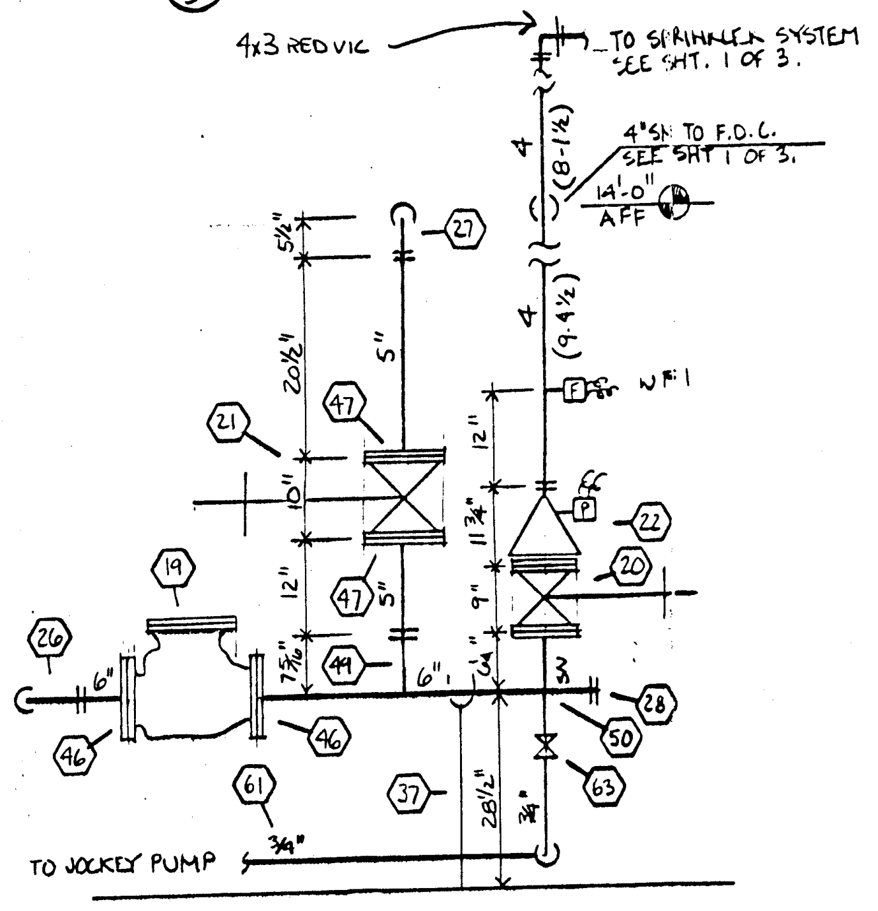




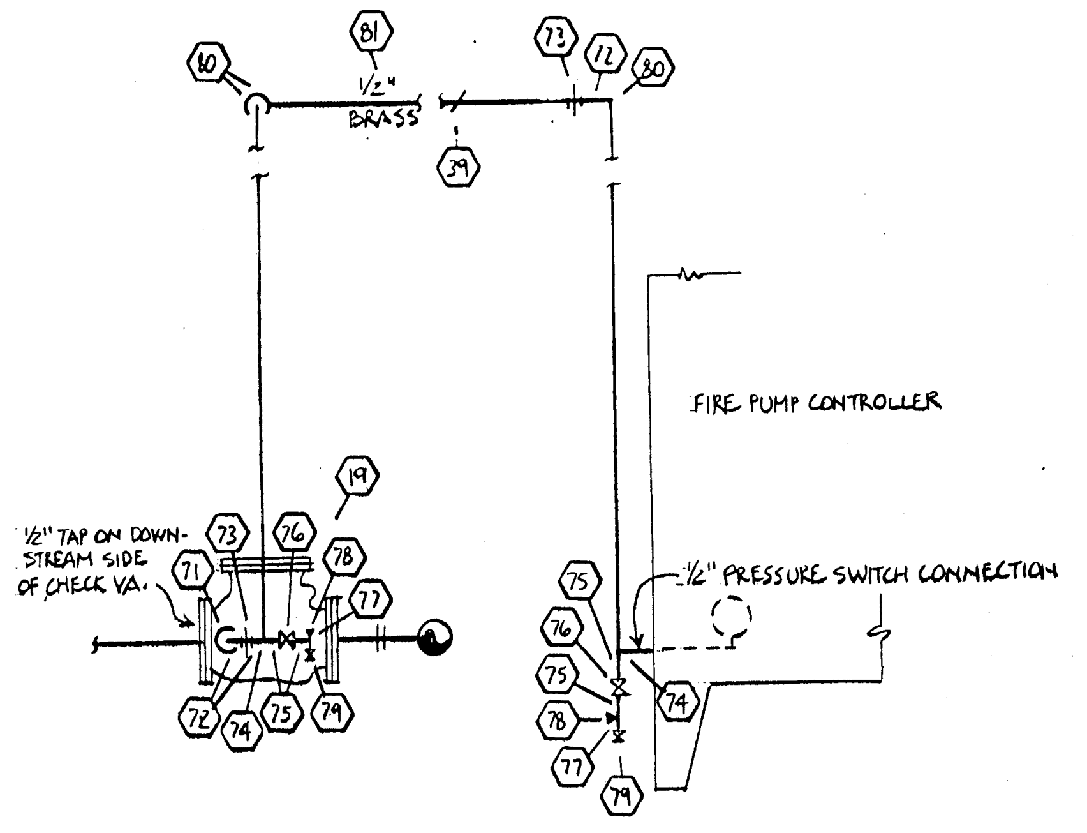
ANCHOR BOLT
NTS



D/3 PIPING DETAIL
SCALE: 1/2" = 1'-0"

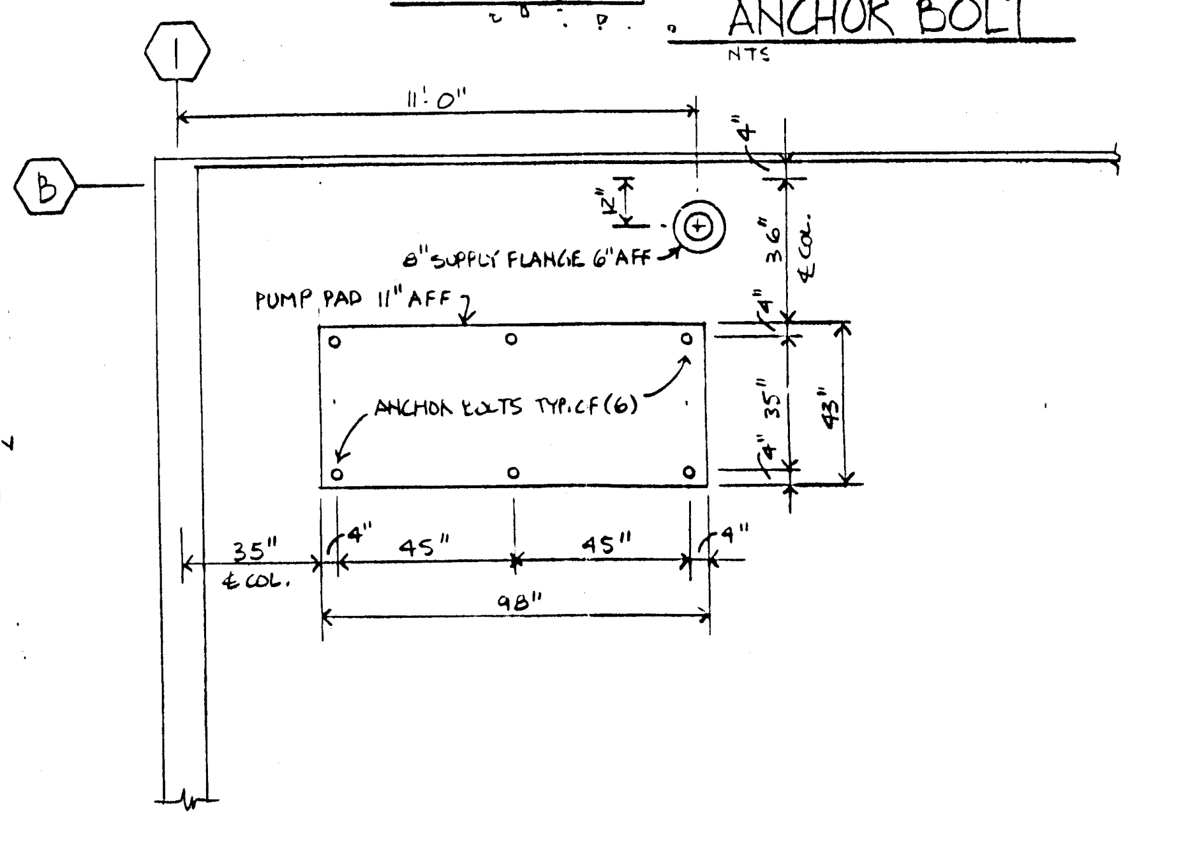

4x3 RED VIC
TO SPRINKLER SYSTEM SEE SHT. 1 OF 3.
4"x5" TO F.D.C. SEE SHT. 1 OF 3.
14'-0" AFF
TO JOCKEY PUMP
34"

E/3 PIPING DETAIL
SCALE: 1/2" = 1'-0"

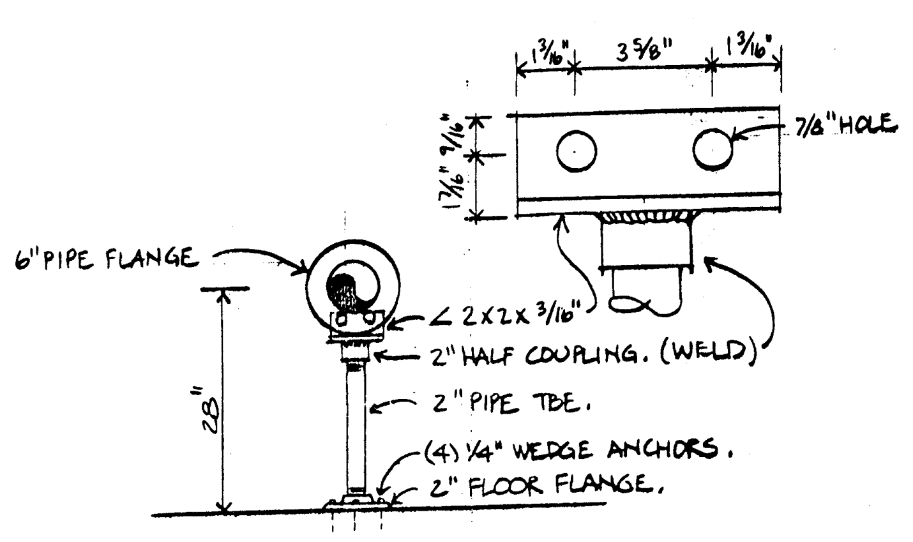

BRASS
FIRE PUMP CONTROLLER
1/2" PRESSURE SWITCH CONNECTION
1/2" TAP ON DOWNSTREAM SIDE OF CHECK VA.

F/3 FIRE PUMP CONTROLLER PIPING DETAIL
SCALE: 1/2" = 1'-0"

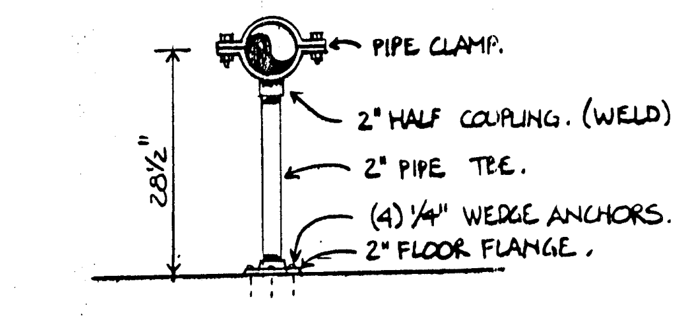
G/3 FUEL TANK DETAIL
SCALE: 1/2" = 1'-0"



H/3 PUMP PAD LAYOUT
SCALE: 1/2" = 1'-0"



I/3 PIPE STAND DETAIL
SCALE: 1/2" = 1'-0"



J/3 PIPE STAND DETAIL
SCALE: 1/2" = 1'-0"

MATERIAL LIST

LIST: PIPE, VIC COUPLINGS, & NUTS BOLTS GASKETS FROM DRAWINGS.

	ITEM	QUANTITY	DESCRIPTION
SUPPLIED BY PUMP SUPPLIER	1	1	FIRE PUMP, FAIRBANKS MORSE "2874AF", 500 GPM @ 100 PSI.
	2	1	DIESEL ENGINE, MWM CLARKE-MURPHY "MD4", 62 HP, W/HEAT EXCHANGER.
	3	1	FIRE PUMP CONTROLLER, METRON "FD2" SEE DETAIL "F"
	4	1	SUCTION GAUGE, U.S. GAUGE "66." 30 HG-0-300 PSIG.
	5	1	DISCHARGE GAUGE, U.S. GAUGE "65." 0-300 PSIG.
	6	1	1/2" AIR RELEASE VALVE, APCO "50."
	7	1	3" RELIEF VALVE, KUNKLE SET AT 175 PSI.
	8	1	3"x5" WASTE CONE.
	9	1	2"x24" FLEXIBLE EXHAUST CONNECTOR.
	10	1	2"x12" EXHAUST SILENCER.
	11	1	BATTERY RACK W/ STARTER BATTERIES & CABLES.
	12	1	105 GAL. DIESEL TANK, SEE DETAIL "G"
	13	1	FUEL GAUGE.
	14	1	LOW FUEL ALARM SWITCH.
	15	1	5" FLOW METER, GERAND "K-500-5 (715)" GROOVED.
	16	1	JOCKEY PUMP, TRUPAR DURO P&S "9D07-95," 3/4 H.P, 208V 3 ϕ., SEE DETAIL "C."
	17	1	JOCKEY PUMP CONTROLLER, METRON "M 14 A." SEE DETAIL "C."
VALVES	18	1	△2
	19	1	6" FLANGED CHECK VALVE, KENNEDY "126A", W/ 1/2" TAP ON DOWNSTREAM SIDE.
	20	1 ✓	4" OS&Y VALVE WITH TAMPER SWITCH, KENNEDY "68."
	21	2	5" OS&Y VALVE WITH TAMPER SWITCH, KENNEDY "68."
	22	1	4" ALARM VALVE, RELIABLE "E" W/TRIM, RETARD, MOD. "J" PRESS. SWITCH.
FITTINGS	23	1	6"x5" ECCENTRIC REDUCER
	24	1	6"x3" CONCENTRIC REDUCER
	25	1	6" VICTAULIC TEE.
	26	2	6" VICTAULIC ELL.
	27	3	5" VICTAULIC ELL.
	28	1	6" VICTAULIC CAP.
	29	1	6x1½" MECHANICAL TEE W/ 1½x1 BUSHING.
DRAINS & EXHAUST	30	1	2" ELL
	31	1	2"x(4'-0") GALV. PIPE, TBE & 2" COUPLING.
	32	1	2" THREADED EXHAUST CLAPPER.
	33	1	2" DRAIN (BACKFLOW PREVENTER): 2x(0-4) NIP., 2" ELL, 2x(0-10) GALV. TBE., (2) 2" WALL PLATES, 2" GALV. 45° ELL.
	34	2	5" WALL PLATES
	35	1	5" RAIN CAP
SUPPORTS & HANGERS	36	2	2" PIPE STAND SEE DETAIL "I."
	37	3	2" PIPE STAND SEE DETAIL "J."
	38	1	1/2" TOP BEAM CLAMP W/ "RETAINER, 1/2x(20'-0") CTS ATR, 5" PIPE RING.
	39	1	3/8" TOP BEAM CLAMP W/ "RETAINER, 3/8x(20'-0") CTS ATR, 1/2" PIPE RING.
	40	3	3/8" WEDGE ANCHOR INTO FLOOR, 3/8" ROD COUP., 3/8x(0-2½) ATR, INVERTED 3/4" PIPE RING. SINCH TIGHT TO PIPE.
	41	6	5/8" ANCHOR BOLT SEE DETAIL "H"
	42	1	3/8" TOP BEAM CLAMP W/ "RETAINER, 3/8x(20'-0") CTS ATR, 2" PIPE RING.
SHOP FAB, FITTINGS	43	1	8" THREADED FLANGE.
	44	3	6" THREADED FLANGE.
	45	2	5" THREADED FLANGE.
	46	3	6" WELD SLIP ON FLANGE.
	47	3	5" WELD SLIP ON FLANGE.
	48	1	3" SHAPED NIPPLE W/ WELD SLIP ON FLANGE.
	49	1	5" GROOVED SHAPED NIPPLE.
	50	1 EA.	DOWN 3/4" POL, UP 4" SN W/ WELD SLIPON FLANGE.
JOCKEY PUMP	51	2	1x(0-3) GALV. NIP.
	52	1	1" GALV. UNION.
	53	1	1" OS&Y VALVE.
	54	3	1" GALV ELL.
	55	6'	1" GALV SCH 40 PIPE CTS.
	56	2	1/4" WEDGE ANCHOR.
	57	4	3/4x(0-3) NIP.
	58	1	3/4" UNION.
	59	1	3/4" CHECK VALVE, UNITED BRASS "99 S."
	60	1	3/4x1/2x3/4 TEE.
	61	21'	3/4" BLACK SCH 40 PIPE.
	62	8	3/4" ELL.
	63	1	3/4" OS&Y VALVE.
	64	1	1/2" DIELECTRIC UNION.
	65	10'	1/2" SCH 40 BRASS PIPE.
	66	4	1/2" BRASS ELL.
	67	1	1/2" BRASS UNION W/ 3/32" ORIFICE.
	68	1	1/2"x0-3 BRASS NIP.
	69	1	1/2x1/2x1/4 BRASS TEE.
	70	1	1/4" PET COCK, UNITED BRASS "971".
FIRE PUMP CONTROLLER PIPING	71	1	1/2x(0-3) GALV. NIP., 1/2" DI-ELECTRIC UNION, 1/2x(0-3) BRASS NIP., 1/2" BRASS ELL.
	72	3	1/2"x(0-3) BRASS NIP.
	73	2	1/2" BRASS UNION W/ 3/32" ORIFICE.
	74	2	1/2"x1/4"x1/2" BRASS TEE.
	75	4	1/4x(0-3) BRASS NIPPLE.
	76	2	1/4" GLOBE VALVE, UNITED BRASS "45 S."
	77	2	1/4" BRASS TEE.
	78	2	1/4" BRASS PLUG.
	79	2	1/4" PETCOCK, UNITED BRASS "971."
	80	5	1/2" BRASS ELL.
	81	20'	1/2" SCH 40 BRASS PIPE.
FUEL TANK	82	30'	1/2" O.D. COPPER TUBING.
	83	20'	5/8" O.D. COPPER TUBING.
	84	15'	1¼" GALV. PIPE. W/(2) GALV. 1¼" ELLS., & (2) 1¼" WALL PLATES
	85	2	2x(2-10) PIPE TBE.
	86	2	2x(2-10¼) PIPE TBE.
	87	4	2 FLOOR FLANGE
	88	16	1/4" WEDGE ANCHORS
SUPPLIED WITH FUEL TANK	89	2	1/2" CLOSE NIPPLE.
	90	1	1/2" STOP COCK, LOCK TYPE.
	91	1	5/8" O.D. TUBE x 1/2" PIPE THREAD CONNECTOR.
	92	2	5/8" O.D. TUBE NUT.
	93	1	1/2"x1/2"x1/2" TEE.
	94	3	1/2" O.D. TUBE x 1/2" PIPE THREAD CONNECTOR.
	95	4	1/2" O.D. TUBE NUT.
	96	1	1¼"x1¼"x1/2" TEE.
	97	1	FLAME ARRESTOR
	98	1	1¼"x2" BUSHING.
	99	1	1¼"x3" BUSHING.

GENERAL NOTES

1) OWNER TO MAINTAIN 70°F MINIMUM
2) THE FIRE PUMP IS DESIGNED TO WATER FOR SEALING, LUBRICATION, + COOLING. THE SEALS SHOULD BE ADJUSTED TO HAVE A SMALL AMOUNT OF WATER LEAKING THRU PACKING GLAND WHEN PUMP IS OPERATING AND WILL USUALLY NOT BE "DRIP TIGHT IN A STATIC CONDITION.
3) LIST INSTALL ELEVEN, (11) QTS. OF SAE 30 MOTOR OIL
4) LIST INSTALL NINE, (9) QTS. OF PRESTONE ANTIFREEZE INTO HEAT EXCH. COOLING SYS.
5) AIR RELEASE VALVE SUPPLIED WITH PUMP DOES NOT REQUIRE DRAIN PIPING
6) ~~FITTER TO GROUT BASE OF PUMP, PER MFRS. INSTRUCTIONS. PRODUCT TO BE USED IS MASTERFLOW #712, LISTER TO SEND (12) SACKS, EACH WEIGHING 55LBS. GROUT IS TO BE MIXED W/ APPROX 1/3 GAL WATER PER BAG, THEN POURED INTO BASE CAVITY OF DIESEL DRIVER.~~

NOT REQUIRED PER NFPA 20 3-4 DUE TO PUMP HOUSEKEEPING PAD △2

AS-BUILT
11-7-89

SPRINKLER DETAILS

FP-3

Ⓝ PROJECT NORTH

HANGER LEGEND	
A	"U" HOOK
B	COACH SCREW ROD
C	"C" CLAMP
D	TOP BEAM CLAMP
E	EYE ROD
F	FLUSH SHELL
G	CEILING FLANGE
H	SIDE BEAM BRACKET
J	"J" BOLT
K	SHORT CLIP
L	"L" ROD
M	MACHINE THREADED ROD
N	TOGGLE NUT
P	POWDER DRIVEN STUD
R	WEDGE ANCHOR
T	
U	
V	
W	
X	
Y	

→ 2-WAY EARTHQUAKE BRACE
✛ 4-WAY EARTHQUAKE BRACE
○ STRUCTURE TO CENTER LINE OF PIPE IN INCHES

SPRINKLER LEGEND

SPKR THRDS	SPRINKLER ORIFICE SIZES AND TYPE	UPRIGHT	PENDENT	TEE SIZE
1/2"	5/16 3/8 7/16 1/2 SPRAY	○	◉	1/2"
		◎	●	1"
3/4"	17/32 SPRAY	□	▣	3/4"
		▣	■	1"
1/2"	3/8 7/16 1/2 SIDEWALL	△	▲	1/2"
		△	▲	1"
1"	1/2 DRY TYPE	◇	◈	1"
		◇	◆	1"

TEMP. RATING	
○	165°
⊖	212°
⊜	286°
●	350°
■	500°

SPRINKLERS UP AND DOWN	OPENING UP	SYMBOL	OPENING DOWN
	1/2	◐	1
	1	◉	1/2
	1	●	1
	1/2	◑	1/2

SPRINKLERS USED

SYM	SPRINKLER ORIFICE SIZE, TYPE & FINISH	QUAN	TEMP
	TOTAL		

FITTING LEGEND	
C	MEYERTECH
F	VICTAULIC "FIT"
M	MICHIGAN "SLIP-LOK"
P	PIPE-O-LET
SN	SHAPED NIPPLE
Z	ITT GRINNELL "EASE-TEE"

APPROVALS REQUIRED
OWNER / ARCH.
I.S.O.
STATE FIRE MARSHALL

DISTRIBUTION

QUALITY CONTROL BY DATE 5/26/89
APPROVED FOR FABRICATION BY DATE 5/30/89
APPROVED FOR INSTALLATION BY DATE

GENERAL NOTES

1. ALL MATERIAL AND EQUIPMENT TO BE NEW AND UNDERWRITERS APPROVED.
2. PIPING DIMENSIONS ARE CENTER TO CENTER EXCEPT RISER & DIMENSIONS SHOWN THUSLY (1-6) WHICH ARE END TO END.
3. EARTHQUAKE BRACING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA PAMPHLET NO. 13-1983, SECTION 3-10.3.5.
4. PIPE HANGERS AND METHOD OF HANGING TO BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, SECTION 3-15.
5. PIPING SHALL BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, SECTION 3-1.
6. JOINING OF PIPE AND FITTINGS, THREADED AND WELDED SHALL BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13, SECTIONS 3-12 AND 3-13.
7. OWNER TO PROVIDE ADEQUATE HEAT TO PREVENT WATER IN PIPES FROM FREEZING IN AREAS PROTECTED BY A WET PIPE SPRINKLER SYSTEM.
8. ALL WIRING OF ELECTRICAL DEVICES (IF REQUIRED) TO BE PROVIDED BY OTHERS
9. PAINTING OF PIPE AND EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS
10. FURRING OF PIPE AND EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS

DESIGN CRITERIA AND PIPE NOTES

CAULKING, FLASHING, & SEALING OF WALL PENITRATIONS BY OTHERS
STANDARD WALL & LIGHTWALL BLACK STEEL PIPE U.N.O.
ALL MATERIALS DOMESTIC

REVISIONS

MK	DATE	BY	
△1	11-7-89	A.B.	AS-BUILT
△2	8/16/90	DLW	AS-BUILT PER OWNERS REVIEW
△			
△			

CONTRACT WITH:
SAS MECHANICAL INC.
8221 DIMOND HOOK DR.
ANCHORAGE, ALASKA 99507
CONTACT: TIM JACQUES (907) 344-3200

CONTRACT NAME:
NOME HANGAR AAOF
NOME, ALASKA

WORMALD
FIRE SYSTEMS
6108 PETERSBURG ST.
ANCHORAGE, ALASKA 99507
PH. (907) 563-3585

DESIGNER	DATE	SHEET	JOB NO.
STEVE DORSEY	1-19-89	3 OF 3	25001059