NOTES:

- PROVIDE ONE WET-PIPE SPRINKLER SYSTEM FOR EACH HANGAR BAY PAINT SPRAY BOOTH. SPRINKLER SYSTEMS FOR THE HANGAR BAY SHALL PROVIDE 8.15 LPM/M² (0.2 GPM/FT²) OVER A 465 M²(5,000 FT²) DESIGN AREA, WITH 1,893 LPM (500 GPM) HOSE STREAM ALLOWANCE.
- PROVIDE ONE WET-PIPE SPRINKLER SYSTEM FOR EACH EQUIPMENT AREA ABOVE THE HANGAR BAY. SPRINKLER SYSTEM FOR EQUIPMENT AREA SHALL PROVIDE 8.15 LPM/M² (0.2 GPM/FT²) OVER A 280 M² (3.000 FT²) DESIGN AREA. WITH 1.893 LPM (500 GPM) HOSE STREAM ALLOWANCE.
- SPRINKLER ACTIVATION IN HANGAR PAINT BOOTH SHALL ACTIVATE THE HIGH EXPANSION FOAM SYSTEMS PROTECTING THE PAINT SPRAY BOOTH. HAZARD CLASSIFICATION, DENSITIES, AREAS OF COVERAGE AND HOSE STREAM ALLOWANCES SHALL BE IN ACCORDANCE WITH UFC 3-600-01.
- ALL PIPING SHALL BE SCHEDULE 40 STEEL, EXCEPT IN SIZES 8-INCH AND LARGER, WHICH SHALL BE SCHEDULE 30. ALL FOAM CONCENTRATE PIPING SHALL BE SCHEDULE 40 STAINLESS STEEL.
- ALL PIPING AND EQUIPMENT SHALL BE SEISMICALLY PROTECTED IN ACCORDANCE WITH SPECIFICATION 01 88 15 "SEISMIC ANCHORAGE AND LATERAL BRACING".
- FOAM SYSTEM CONTROL PANEL SHALL BE AN ADDRESSABLE FIRE ALARM PANEL, UL LISTED FOR RELEASING SERVICE. FIRE ALARM CONTROL PANEL SHALL BE AN ADDRESSABLE FIRE ALARM PANEL.
- ALL FIRE ALARM SYSTEM INITIATING DEVICE CIRCUITS SHALL BE CLASS A STYLE 6, EXCEPT SOLENOID
 CIRCUITS WHICH SHALL BE CLASS B. NOTIFICATION APPLIANCE CIRCUITS SHALL BE CLASS A, STYLE D.
- 8. FIRE ALARM DEVICES WHICH ARE NOT SHOWN, BUT SHALL BE PROVIDED INCLUDE: VALVE TAMPER SWITCHES, SOLENOIDS, PRESSURE SWITCHES, FLOW SWITCHES, DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS AND AUXILIARY FUNCTIONS.
- FIRE ALARM SYSTEM COMPONENTS, WIRING AND CONDUIT SYSTEM IN THE HANGAR BAYS SHALL COMPLY WITH NFPA 70 FOR CLASSIFIED (HAZARDOUS) LOCATIONS. CLASS 1, DIVISION 1. NOTE: DEVICES IN HANGAR ARE EXPLOSION PROOF.
- 10. FIRE ALARM SYSTEM SHALL BE CAPABLE OF SENDING AND RECEIVING DATA TO/FROM THE BASE MASS NOTIFICATION SYSTEM.
- PROVIDE ONE LOW LEVEL HIGH EXPANSION FOAM SYSTEM RISER FOR EACH HANGAR AREA. TOTAL 2
 AREAS.
- 12. FIRE ALARM DEVICES INSTALLED WITHIN HANGAR AND FILTER BANKS SHALL BE RATED FOR HAZARDOUS LOCATIONS (CLASS I, DIVISION I) AS DEFINED BY NFPA 70. MATERIALS INSTALLED IN THESE AREAS, AS WELL AS INSTALLATION METHODS SHALL MEET REQUIREMENTS OF NEC ARTICLE 500, 501, 513 AND AF ETI, 02-15.
- 13. ALL INTERIOR INSTALLATIONS SHALL UTILIZE NEMA 1 ENCLOSURES AND ALL EXTERIOR INSTALLATIONS SHALL UTILIZE NEMA 4X STAINLESS STEEL ON NEMA 3R (WHEN NEMA 4X ARE NOT AVAILABLE.
- HEAT DETECTORS AND SPRINKLERS IN HANGAR AREAS SHALL BE PROTECTED ACCORDING TO NFPA 13, NFPA 72, AND NFPA 30.
- 15. CIRCUITS CONNECTED TO THE FOAM SYSTEM CONTROL PANEL (FSCP) WHICH MONITOR INITIATING DEVICES (HEAT DETECTORS, FOAM MANUAL RELEASE STATIONS, WATERFLOW SWITCHES AND PRESSURE SWITCHES) SHALL BE SEPARATE FROM ALL OTHER CIRCUITS, AND SHALL NOT BE LOCATED IN CONDUIT(S) WHICH CONTAINS ANY OTHER TYPE OF FIRE ALARM CIRCUIT. ADDITIONALLY THESE AFORE MENTIONED FSCP INITIATING DEVICES SHALL BE ON THEIR OWN ADDRESSABLE LOOP, WHICH DOES NOT MONITOR ANY OTHER DEVICES. FOR ADDITIONAL CIRCUIT AND CONDUIT SEGREGATION REQUIREMENTS SEE PROJECT SPECIFICATION 28 31 00 FIRE DETECTION AND ALARM.
- PROVIDE DOUBLE POLE, DOUBLE THROW RELAYS FOR ALL HVAC SHUTDOWN FUNCTIONS INCLUDING DUCT SMOKE DETECTION AND AT/FP.
- 17. FOR AT/FP BRACING REQUIREMENTS SEE GENERAL STRUCTURAL NOTES

OCCUPANCY CLASSIFICATION LEGEND

		SPRINKLER	RSYSTEM		
	OCCUPANCY CLASSIFICATION	DESIGN DENSITY LPM/M ² (GPM/FT ²)	DESIGN AREA M²(FT²)	HOSE STREAM ALLOWANCE LPM (GPM)	DURATION OF SUPPLY MINUTES
1	LIGHT HAZARD	4.1 (0.10)	280 (3000)	950 (250)	60
2	ORDINARY HAZARD GROUP1	6.1 (0.15)	280 (3000)	1900 (500)	60
3	ORDINARY HAZARD GROUP2	8.2 (0.20)	280 (3000)	1900 (500)	90
4	EXTRA HAZARD GROUP1	12.2 (0.30)	280 (3000)	2840 (750)	120
5	EXTRA HAZARD GROUP2	16.3 (0.40)	280 (3000)	2840 (750)	120
6	HANGAR WET-PIPE	8.2 (0.20)	465 (5000)	1900 (500)	90

FIRE SPRINKLER SYSTEM SYMBOLS

HEF PIPING

HANGAR SYSTEMS



HIGH EXPANSION FOAM GENERATOR

25

PIPE DIAMETER APPROXIMATE METRIC EQUIVALENT (IN INCHES)



HVAC

EQUIPMENT TAG

ABBREVIATIONS USED

OVERHEAD

O.H. OVER

LPM LITERS PER MINUTE
GPM GALLONS PER MINUTE

FIRE ALARM DEVICE SYMBOLS

M ADDRESSABLE MONITOR MODULE

C ADDRESSABLE CONTROL MODULE

AUXILIARY POWER SUPPLY

\$ EYEWASH STATION SUPERVISORY MONITOR

FAA FIRE ALARM ANNUNICATOR

FACP FIRE ALARM CONTROL PANEL

FTR FIRE ALARM RADIO TRANSCEIVER

FOOM SYSTEM CONTROL PANEL
FICE FIRE PUMP REMOTE START

⊕_{RIC} HEAT DETECTOR (RATE COMPENSATED TYPE-160°F)

KNOX KNOX BO

LOCAL OPERATING CONSOLE

MANUAL FIRE ALARM PULL STATION

MANUAL FOAM RELEASE STATION

MASS NOTIFICATION ACU

TATIFF AT/FP HVAC SHUTDOWN BUTTON - DUAL CONTACT

HVAC SHUTDOWN INTERFACE - DUAL CONTACT

PBC PAINT BOOTH SHUTDOWN - DUAL CONTACT

REMOTE DUCT-DETECTION LED / TEST STATION

DOOR ROLL-DOWN DOOR RELEASE CONTROLLER

SMOKE DETECTOR - DUCT

(), SMOKE DETECTOR - PHOTOELECTRIC

SOLENOID VALVE

□ SPEAKE

HO(NO VISUAL MNS ALERT DEVICE (AMBER LENS STROBE)

C. VISUAL FIRE ALARM DEVICE (BLUE LENS STROBE)

HX VISUAL FIRE ALARM DEVICE (CLEAR LENS STROBE)

 $+ \widehat{\boxtimes}_{\text{EVE}} \ \text{ EMERGENCY EYEWASH } / \text{SHOWER BEACON (ORANGE)}$

WATERFLOW SWITCH

SUBSCRIPTS

A AMBER (STROBE)

B BLUE (STROBE)

C CEILING MOUNT

CD CANDELA RATING

VALVE SUPERVISORY SWITCH

EYE EYEWASH / SHOWER

MAU MAKE UP AIR UNIT

WP WEATHERPROOF

XP EXPLOSION-PROOF



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CH2MHILL
22 LO/ COMPOSITE REPAIR FACILITY
FIRE PROTECTION
LEGEND

VERIFY SCALE

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SHEET

3 5 6 6 6 5 2 2 2 1 2 1 1 3 3 1 1 2 3 1 2 3 2 2 1 (3) $\langle 5 \rangle$ 3 2 2 (3) OCCUPANCY CLASSIFICATION LEGEND FIRST FLOOR SPINKLER PLAN - OVERALL 1/16"=1'-0" SPRINKLER SYSTEM OCCUPANCY CLASSIFICATION DESIGN DESIGN HOSE STREAM **DURATION OF** DENSITY AREA SUPPLY LPM/M² M²(FT²) ALLOWANCE MINUTES (GPM/FT2) LPM (GPM) 1 LIGHT HAZARD 4.1 (0.10) 280 (3000) 950 (250) 60 ORDINARY HAZARD GROUP1 6.1 (0.15) 280 (3000) 1900 (500) 60 3 ORDINARY HAZARD GROUP2 90 8.2 (0.20) 280 (3000) 1900 (500) 4 EXTRA HAZARD GROUP1 120 12.2 (0.30)

EXTRA HAZARD GROUP2

6 HANGAR WET-PIPE

280 (3000)

280 (3000)

465 (5000)

16.3 (0.40)

8.2 (0.20)

2840 (750)

2840 (750)

1900 (500)

120

90

GENERAL SHEET NOTES

A. SEE FP401 FOR WATER SUPPLY DATA

⟨ ` \ KEYED NOTES

- 1. SEE SHEETS FP401 & FP402 FOR ENLARGEMENT
- DASHED LINE INDICATES PERIMETER OF SECURED AREA. LINE SHOWN FOR REFERENCE ONLY. REFER TO SHEET G-007 FOR LOCATIONS OF SECURED ROOM AND ACOUSTICAL PARTITIONS. PIPING PENETRATING ACOUSTICAL PARTITIONS REQUIRES GROUNDING OUTSIDE EACH ACOUSTICAL PARTITION PENETRATED. PIPING SHALL BE BONDED ON SECURE SIDE OF WALL OF SECURE AREA WITH #12 INSULATED COPPER TO NEAREST ELECTRICAL GROUND. COMPLY WITH SECTION 26 05 26 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS.
- PROVIDE COMPLETE SPRINKLER COVERAGE FOR EXTERIOR CANOPY. UTILIZE INTERMEDIATE TEMPERATURE SPRINKLERS FOR EXTERIOR
- BUILDING SEPARATION JOINT SHOWN FOR REFERENCE ONLY, REFER TO STRUCTURAL SHEETS FOR LOCATIONS OF BUILDING SEPARATION JOINTS. PROTECT PIPING CROSSING BUILDING SEPARATION JOINTS AS REQUIRED BY PROJECT SPECIFICATIONS AND NFPA 13.
- PROVIDE 2-INCH WET-PIPE SPRINKLER CONNECTION FROM CEILING SPRINKLERS TO SERVE DUSTRON EQUIPMENT. PROVIDE SHUT OFF VALVE, WATER FLOW SWITCH AND DRAIN AT 6'-0"
- LINEAR TEST HEADER LOCATION. SEE DETAILS 4 AND 5, SHEET FP403

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F-22 LO/COMPOSITE REPAIR FACILITY
HICKAM AIR FORCE BASE, HAWAII
AIR NATIONAL GUARD
PROJECT NUMBER KNMD069208

F-22 LO/ COMPOSITE REPAIR FACILITY
FIRE PROTECTION
FIRST FLOOR SPRINKLER PLAN
OVERALL

CH2MHILL

VERIFY SCALE DATE DECEMBER 2009

363764

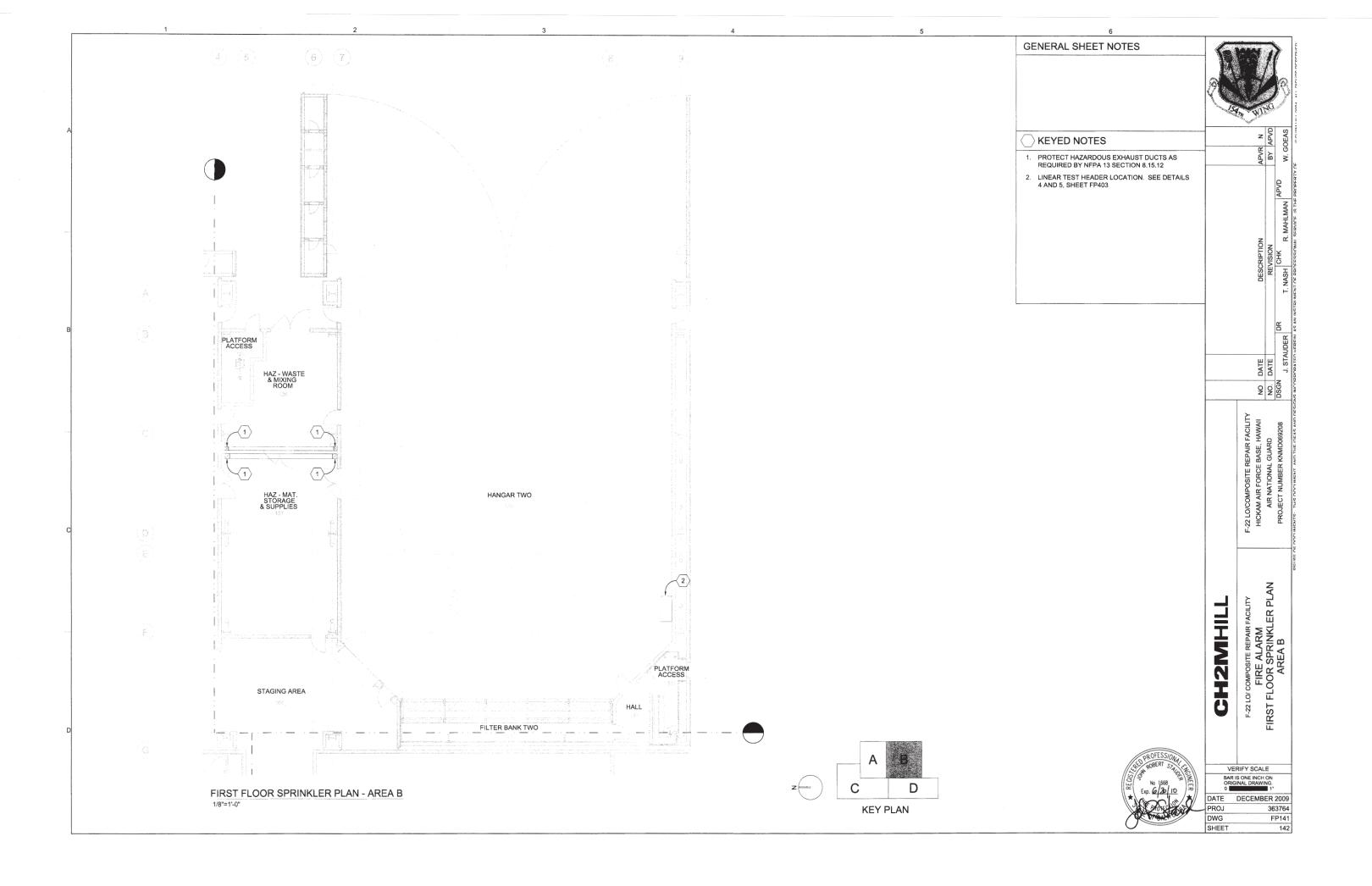
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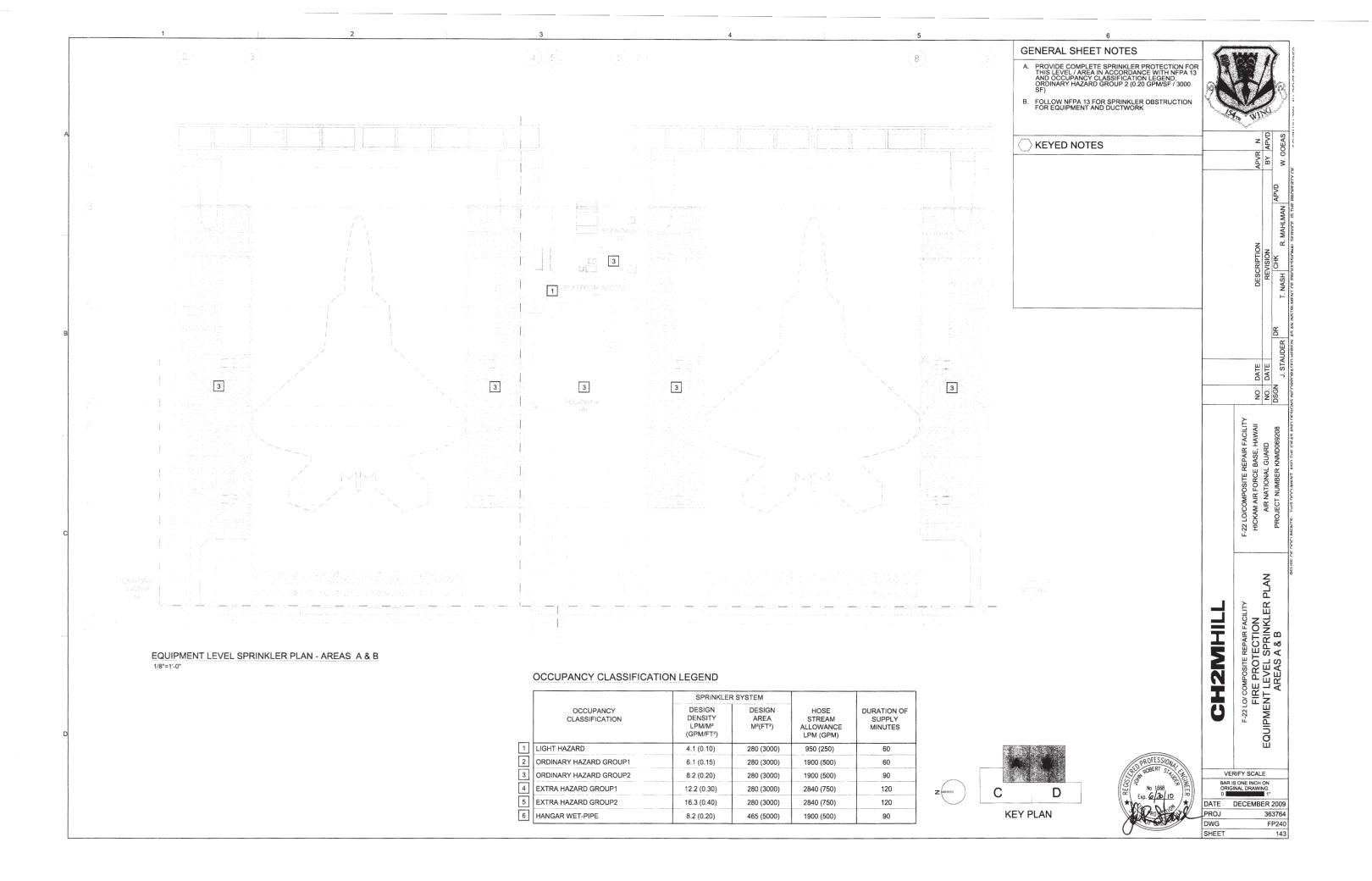
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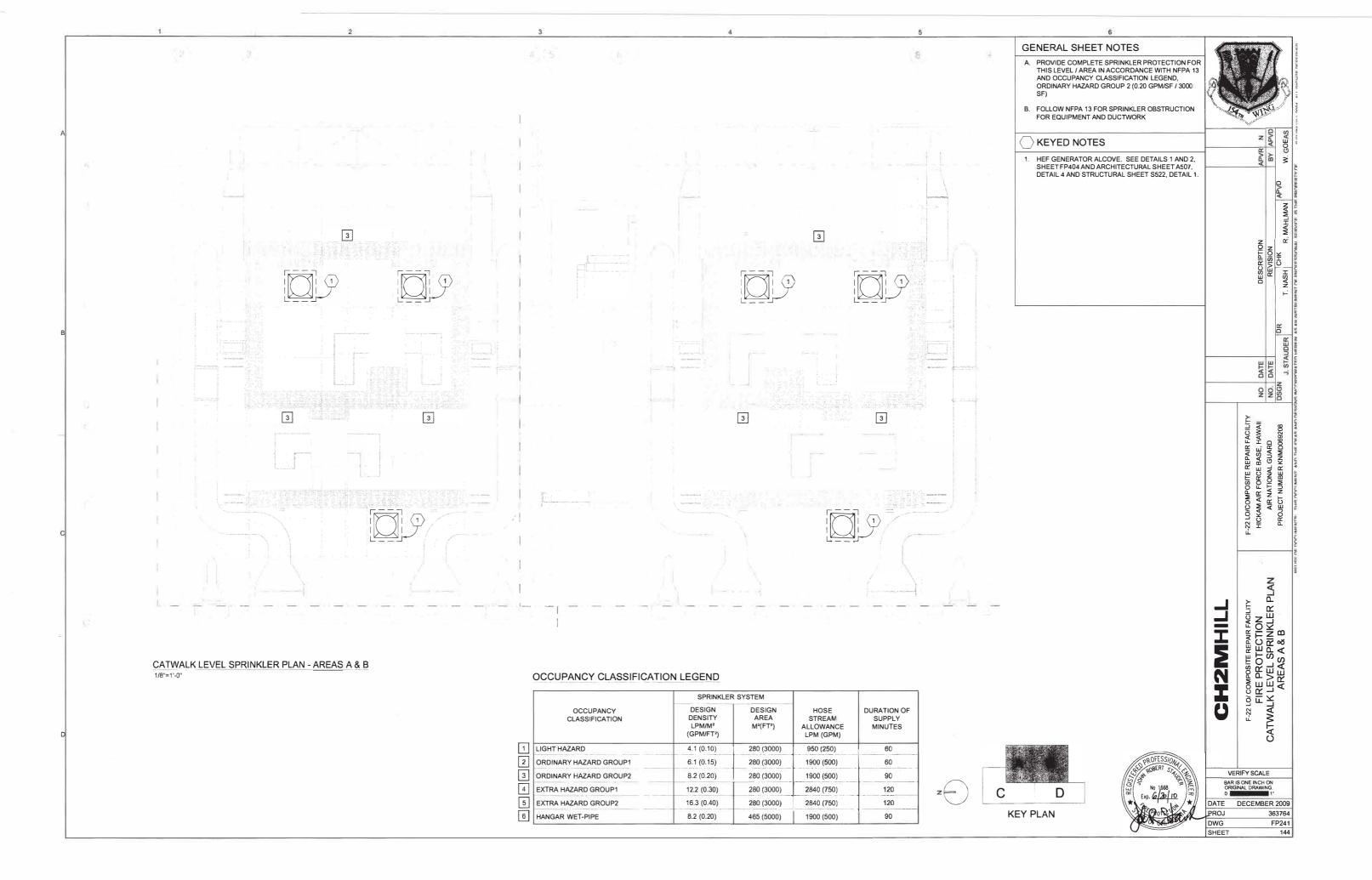
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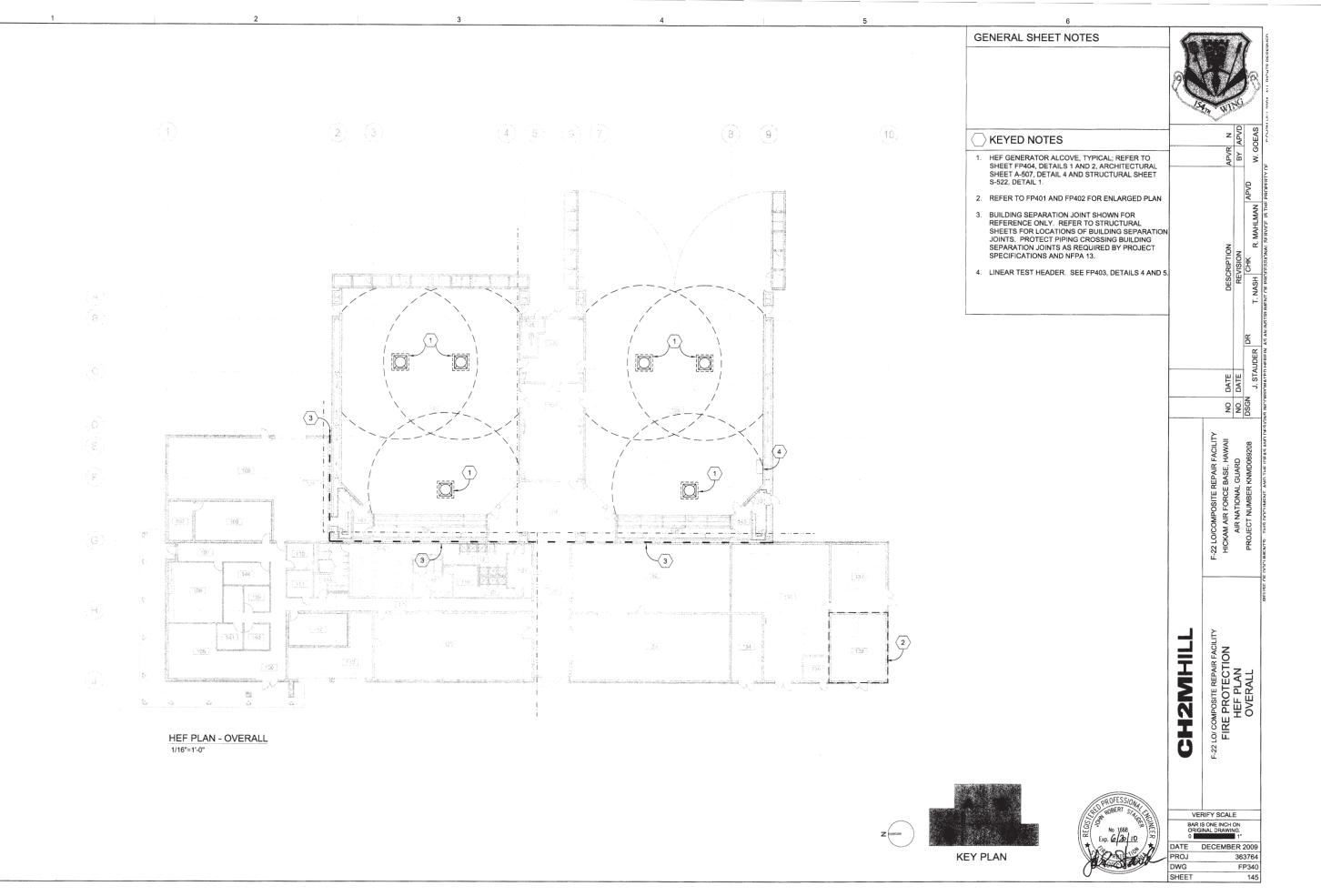
KEY PLAN

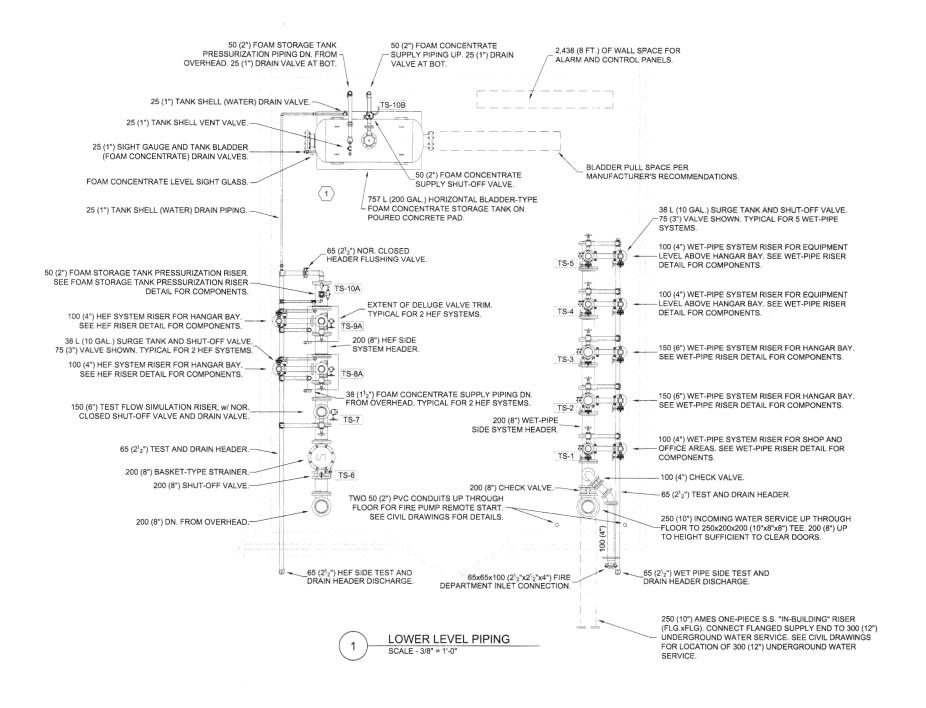
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GENERAL SHEET NOTES

- A. ALL WATER SUPPLY CONTROL VALVES, INCLUDING STORAGE TANK PRESSURIZED WATER SHUT-OFF VALVE, SHALL BE ELECTRICALLY SUPERVISED TO THE OPEN POSITION (EXCEPTION - SURGE TANK SHUT OFF VALVES).
- B. ALL FOAM CONCENTRATE AND FOAM SOLUTION CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED TO THE OPEN POSITION.
- C. ALL SYSTEM TEST AND FLOW SIMULATION VALVES SHALL BE ELECTRICALLY SUPERVISED TO THE CLOSED POSITION.
- D. SEE SHEET FP403, DETAILS 1-3 FOR RISER ELEVATIONS. E. SEE SHEET FP501 FOR TAMPER SWITCH SCHEDULE
- F. WATER SUPPLY INFO STATIC 122 PSI RESIDUAL 114 PSI 1,700 GPM

THIS FLOW DATA SHALL BE ASSUMED TO EXIST AT THE PIV, BASED ON CALCULATION AND ASSUMPTIONS, NOT TESTING. PROJECT FIRE PUMPS AND PORTION OF UNDERGROUND FIRE PUMP MAIN BY OTHERS. REFER TO CIVIL CU102.

KEYED NOTES

ENLARGEMENT AREA

KEY PLAN

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SEE ARCHITECTURAL AND STRUCTURAL SHEET S-503, DETAIL 4 FOR FOAM CONTAINMENT CURB.

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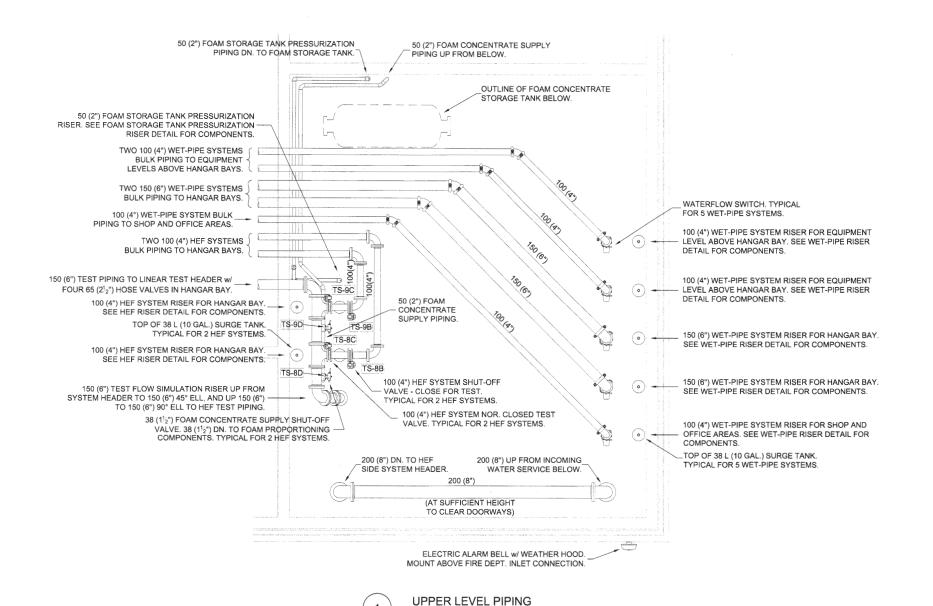
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F-22 LO/ COMPOSITE REPAIR FACILITY
FIRE PROTECTION
ENLARGED FIRE PROTECTION ROOM
LOWER PIPING CH2MHILL

VERIFY SCALE

363764 FP401

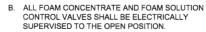
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SCALE - 3/8" = 1'-0"

GENERAL SHEET NOTES

A. ALL WATER SUPPLY CONTROL VALVES, INCLUDING STORAGE TANK PRESSURIZED WATER SHUT-OFF VALVE, SHALL BE ELECTRICALLY SUPERVISED TO THE OPEN POSITION (EXCEPTION - SURGE TANK SHUT OFF VALVES).



C. ALL SYSTEM TEST AND FLOW SIMULATION VALVES SHALL BE ELECTRICALLY SUPERVISED TO THE CLOSED POSITION.

D. SEE SHEET FP403, DETAILS 1-3 FOR RISER ELEVATIONS.

E. SEE SHEET FP501 FOR TAMPER SWITCH SCHEDULE.

KEYED NOTES



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F-22 LO/ COMPOSITE REPAIR FACILITY
FIRE PROTECTION
ENLARGED FIRE PROTECTION ROOM
UPPER PIPING

VERIFY SCALE

SHEET

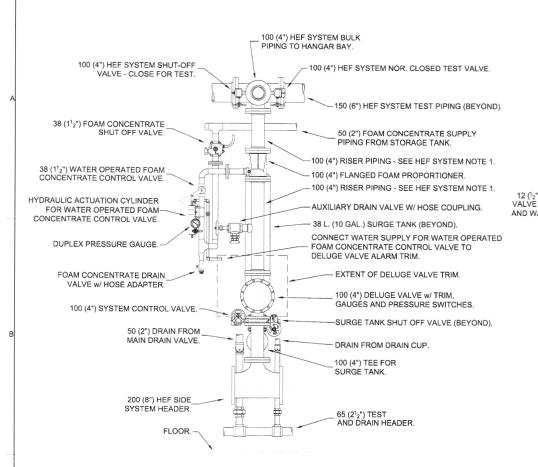
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KEY PLAN

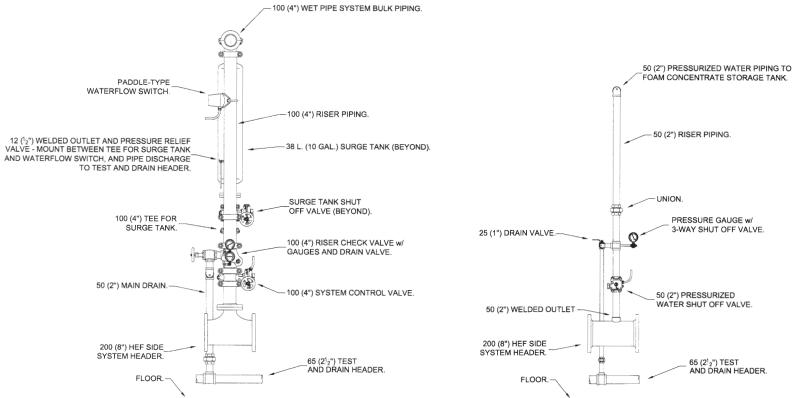
ENLARGEMENT AREA



HEF SYSTEM RISER ELEVATION SCALE - 3/8" = 1'-0'

HEF SYSTEM RISER NOTES -

- 1. PIPE ON SUPPLY SIDE OF FOAM PROPORTIONER SHALL BE STRAIGHT FOR A MINIMUM OF 5 PIPE DIAMETERS FLANGE-TO-FLANGE. PIPE ON SYSTEM SIDE OF FOAM PROPORTIONER SHALL BE STRAIGHT FOR A MINIMUM OF 2 PIPE DIAMETERS FLANGE-TO-FLANGE. IN ALL CASES. MANUFACTURER'S INSTRUCTIONS SHALL BE ADHERED TO.
- 2. IN FOAM CONCENTRATE SUPPLY PIPING, PROVIDE FLANGES OR COUPLINGS ON SYSTEM SIDE OF FOAM CONCENTRATE SHUT OFF VALVE AND AT FOAM PROPORTIONER SO FOAM CONCENTRATE CONTROL DEVICES MAY BE REMOVED FOR SERVICE OR REPLACEMENT.
- 3. ALL FOAM CONCENTRATE AND FOAM SOLUTION DRAIN VALVES, INCLUDING AUXILIARY DRAIN VALVES ON HEF RISERS, SHALL BE PROVIDED WITH A HOSE ADAPTER OR COUPLING, SO FOAM CONCENTRATE OR SOLUTION MAY BE RECOVERED FOR RE-USE OR DISPOSAL USING OWNER-SUPPLIED HOSE, FOAM DRAIN VALVES SHALL NOT BE CONNECTED TO TEST AND DRAIN HEADER, OR TO STORM OR SANITARY DRAINS.

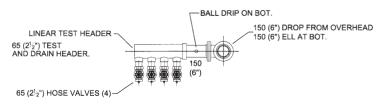


WET PIPE SYSTEM RISER ELEVATION SCALE - 3/8" = 1'-0

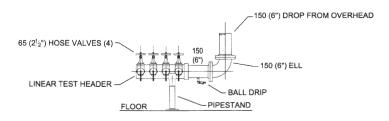
WET PIPE SYSTEM RISER NOTES -

1. 100 (4") RISER SHOWN. 150 (6") RISER IS SIMILAR, WITH RESPECT TO SYSTEM COMPONENTS AND ARRANGEMENT









LINEAR TEST VALVE HEADER ELEVATION SCALE - 3/4" = 1'-0"



CH2M HILL	F-22 LO/ COMPOSITE REPAIR FACILITY FIRE PROTECTION ENLARGED FIRE PROTECTION RC RISER DETAILS
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FP403 148

A. SEE STRUCTURAL SHEET S-522, DETAIL 1 FOR MOUNTING DETAIL B. SEE ARCHITECTURAL SHEET A507, DETAIL 4 FOR HEF GENERATOR ALCOVE ALCOVE, TYP; CENTER HEF GENERATOR IN ALCOVE, TO PROVIDE EQUAL KEYED NOTES CLEARANCE ON EACH SIDE INSTALL CHECK VALVE "REVERSED" FROM NORMAL DIRECTION OF FLOW, TO EXHAUST AIR IN GENERATOR SUPPLY PIPING AND ALLOW MORE R. MAHLMAN RAPID FILLING OF GENERATOR SUPPLY PIPING WITH FOAM SOLUTION. TYPICAL FOR ALL HEF GENERATORS. CENTERLINE, TYP. SOLUTION INLET (Y-STRAINER) DR **BOTTOM VIEW** DATE NO. DSGN HEF GENERATOR & ALCOVE ARRANGEMENT DETAIL NOT TO SCALE F-22 LO/COMPOSITE REPAIR FACILITY
HICKAM AIR FORCE BASE, HAWAII
AIR NATIONAL GUARD
PROJECT NUMBER KNMD069208 CENTERLINE, TYP. 2" HEF GENERATOR SUPPLY PIPING ----- ALOVE IS SHOWN FOR REFERENCE ONLY; REFER TO ARCHITECTURAL SHEET A507 2" CHECK VALVE (SEE ELEVATION "B" AND NOTE 1) FOR ADDITIONAL INFORMATION - 2" CHECK VALVE - NOTE ORIENTATION (SEE NOTE 1) 2" TO HEF GENERATOR (2) 2" ELBOWS INLET CONNECTION F-22 LO/COMPOSITE REPAIR FACILITY FIRE PROTECTION HEF GENERATOR ALCOVE DETAILS 2" HEF GENERATOR CH2MHILL INLET CONNECTION **GENERATOR SUPPLY** CHECK VALVE PIPING DRAIN VALVE 2" STRAINER **ELEVATION 'B'** CHECK VALVE -HEF GENERATOR - CAPACITY SHOWING ORIENTATION DISCHARGE (SEE ELEVATION "B") OF 13,880 CFM @ 50 PSI OF 2" CHECK VALVE SIDE VIEW VERIFY SCALE HEF GENERATOR CONNECTION DETAIL BAR IS ONE INCH ON ORIGINAL DRAWING. NOT TO SCALE DATE DECEMBER 2009 PROJ 363764 DWG FP404 SHEET 149

GENERAL SHEET NOTES

TAMPER SWITCH SCHEDULE				
SUPERVISORY ZONE NUMBER	TAMPER SWITCH DESIGNATION	SUPERVISORY ZONE NAME	DESCRIPTION OF VALVE TAMPER SWITCH	NORMAL POSITION
1	TS-1	WET PIPE SYSTEM NO. 1 (SHOPS AND OFFICES)	WET PIPE SYSTEM NO. 1 CONTROL VALVE	OPEN
2	TS-2	WET PIPE SYSTEM NO. 2 (WEST HANGAR BAY)	WET PIPE SYSTEM NO. 2 CONTROL VALVE	OPEN
3	TS-3	WET PIPE SYSTEM NO. 3 (EAST HANGAR BAY)	WET PIPE SYSTEM NO. 3 CONTROL VALVE	OPEN
4	TS-4	WET PIPE SYSTEM NO. 4 (WEST EQUIPMENT LEVEL)	WET PIPE SYSTEM NO. 4 CONTROL VALVE	OPEN
5	TS-5	WET PIPE SYSTEM NO. 5 (EAST EQUIPMENT LEVEL)	WET PIPE SYSTEM NO. 5 CONTROL VALVE	OPEN
6	TS-6	HEF SIDE SYSTEM HEADER SECTIONAL	CONTROL VALVE ON SUPPLY SIDE OF BASKET STRAINER (ON HEF SIDE SYSTEM HEADER)	OPEN
7	TS-7	FLOW SIMULATION RISER	FLOW SIMULATION RISER CONTROL VALVE (ON HEF SIDE SYSTEM HEADER)	CLOSED
	TS-8A	HEF SYSTEM NO. 1 (EAST HANGAR BAY)	HEF SYSTEM #1 CONTROL VALVE	OPEN
8	TS-8B	HEF SYSTEM NO. 1 (EAST HANGAR BAY)	HEF SYSTEM #1 RISER SHUT-OFF VALVE (CLOSE FOR TEST)	OPEN
	TS-8C	HEF SYSTEM NO. 1 (EAST HANGAR BAY)	HEF SYSTEM #1 TEST VALVE (OPEN FOR TEST - WATER ONLY)	CLOSED
	TS-8D	HEF SYSTEM NO. 1 (EAST HANGAR BAY)	HEF SYSTEM #1 FOAM CONCENTRATE SHUT OFF VALVE (SS SPECIALTY VALVE)	OPEN
9	TS-9A	HEF SYSTEM NO. 2 (WEST HANGAR BAY)	HEF SYSTEM #2 CONTROL VALVE	OPEN
	TS-9B	HEF SYSTEM NO. 2 (WEST HANGAR BAY)	HEF SYSTEM #2 RISER SHUT-OFF VALVE (CLOSE FOR TEST)	OPEN
	TS-9C	HEF SYSTEM NO. 2 (WEST HANGAR BAY)	HEF SYSTEM #2 TEST VALVE (OPEN FOR TEST - WATER ONLY)	CLOSED
	TS-9D	HEF SYSTEM NO. 2 (WEST HANGAR BAY)	HEF SYSTEM #2 FOAM CONCENTRATE SHUT OFF VALVE (SS SPECIALTY VALVE)	OPEN
10	TS-10A	FOAM CONCENTRATE STORAGE TANK	STORAGE TANK PRESSURIZED WATER RISER CONTROL VALVE (ON HEF SIDE SYSTEM HEADER)	OPEN
	TS-10B	FOAM CONCENTRATE STORAGE TANK	STORAGE TANK FOAM CONCENTRATE SUPPLY SHUT OFF VALVE (SS SPECIALTY VALVE)	OPEN



CH2MHILL	
F-22 LO/ COMPOSITE REPAIR FACILITY	F-22 LO/COMPOSITE REPAIR F.
FIRE PROTECTION	HICKAM AIR FORCE BASE, H.
VALVE TAMPER SCHEDULE	AIR NATIONAL GUARD
	PROJECT NUMBER KNMD06

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