

Project: WHATCOM TRANSIT AUTHORITY

Contract: WTA

??DRAWING????DRAWING DESCRIPTION???????????

??1 OF 30 RSR1-1????RISER DIAGRAM???????????

??2 OF 30 FPB1-1????FPB W/HEAT FLOW DIAGRAM???????????

??3 OF 30 FPB1-2????FPB W/O HEAT FLOW DIAGRAM

??4 OF 30 FPB1-3????FPB POINT SCHEDULE???????

??5 OF 30 EF1-1????EF FLOW DIAGRAM

??6 OF 30 VHEF1-1????VEHICLE EXHAUST / HOSE REEL FLOW DIAGRAM

??7 OF 30 VHEF1-2????VEHICLE EXHAUST / HOSE REEL POINT SCHEDULE

??8 OF 30 F1-1????FURNACE #1 FLOW DIAGRAM

??9 OF 30 F1-2????FURNACE #1 POINT SCHEDULE

??10 OF 30 FC1-1????FC-1/HP-1 FLOW DIAGRAM

??11 OF 30 RAC1-1????RAC-1 FLOW DIAGRAM

??12 OF 25 RAC1-2????RAC-1 POINT SHCEDULE

??13 OF 30 RAC2-1????RAC-2 FLOW DIAGRAM

??14 OF 30 RAC2-2????RAC-2 POINT SCHEDULE

??15 OF 30 MAH1-1????MAH-1 FLOW DIAGRAM

??16 OF 30 MAH1-2????MAH-1 POINT SHCEDULE

??17 OF 30 MAH2-1????MAH-2 FLOW DIAGRAM

??18 OF 30 MAH2-2????MAH-2 POINT SHCEDULE

??19 OF 30 MAH3-1????MAH-3 FLOW DIAGRAM

??20 OF 30 MAH3-2????MAH-3 POINT SHCEDULE

??21 OF 30 RHU1-1????RHU-1 FLOW DIAGRAM

??22 OF 30 RHU1-2????RHU-1 POINT SHCEDULE

??23 OF 30 UH1-1????UNIT HEATER FLOW DIAGRAM

??24 OF 30 UH1-2????UNIT HEATER POINT SCHEDULE

??25 OF 30 RS-1????1ST FLOOR ROOM SCHEDULE

??26 OF 30 RS-2????2ND FLOOR ROOM SCHEDULE???????????

- Creating a better climate for business.
- ☐

Environmental Control System
- ☐
- Facility Management System

☐☐☐☐☐☐☐☐☐☐

Air Conditioning

Heating

Diagnostic Services

Coil Cleaning

Refrigeration

Automatic Temperature Controls

Facility Management Systems

Fire Management

Security Management

Building Operations and Management

Water Treatment

Electrical Equipment

Emergency Generator / Lighting Equipment

Industrial Controls / Recording / Indication

Equipment

PROJECT

WTA

ARCHITECT

Zervas Group Architects
209 Prospect St. Suite One
Bellingham, WA 98225
(360) 734-4744
(360) 733-2696

ENGINEER

Berona Engineers Inc.
19400 3rd Ave. W Suite 100
Lynnwood, WA 98036
(425) 744-6033
(360) 744-6322

GENERAL CONTRACTOR

IMPERO CONTRACTING CO. LLC
1971 Midway Lane, Suite N
Bellingham, WA 98226-9175
(360) 733-7052
(360) 733-7141

ELECTRICAL CONTRACTOR

AS-BUILT

05/15/02

MWK

REFERENCE DRAWING

no.

revision-location

ecn

date

by

branch info
2100 196TH ST. SW
SUITE 125
LYNNWOOD WA,
98036
Ph. 425/673-4446
Fax 425/673-2886

SALES ENGINEER

PROJECT MANAGER

APPLICATION ENGINEER

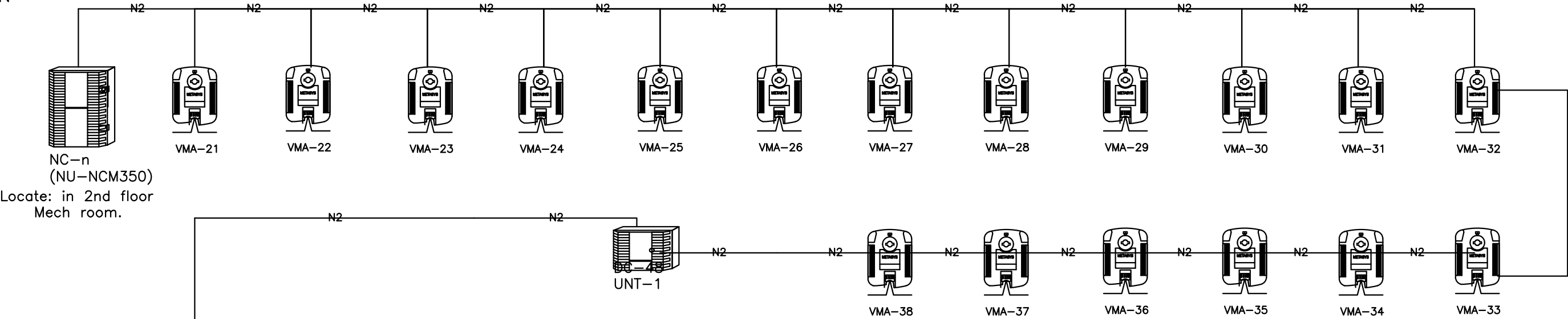
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contract number

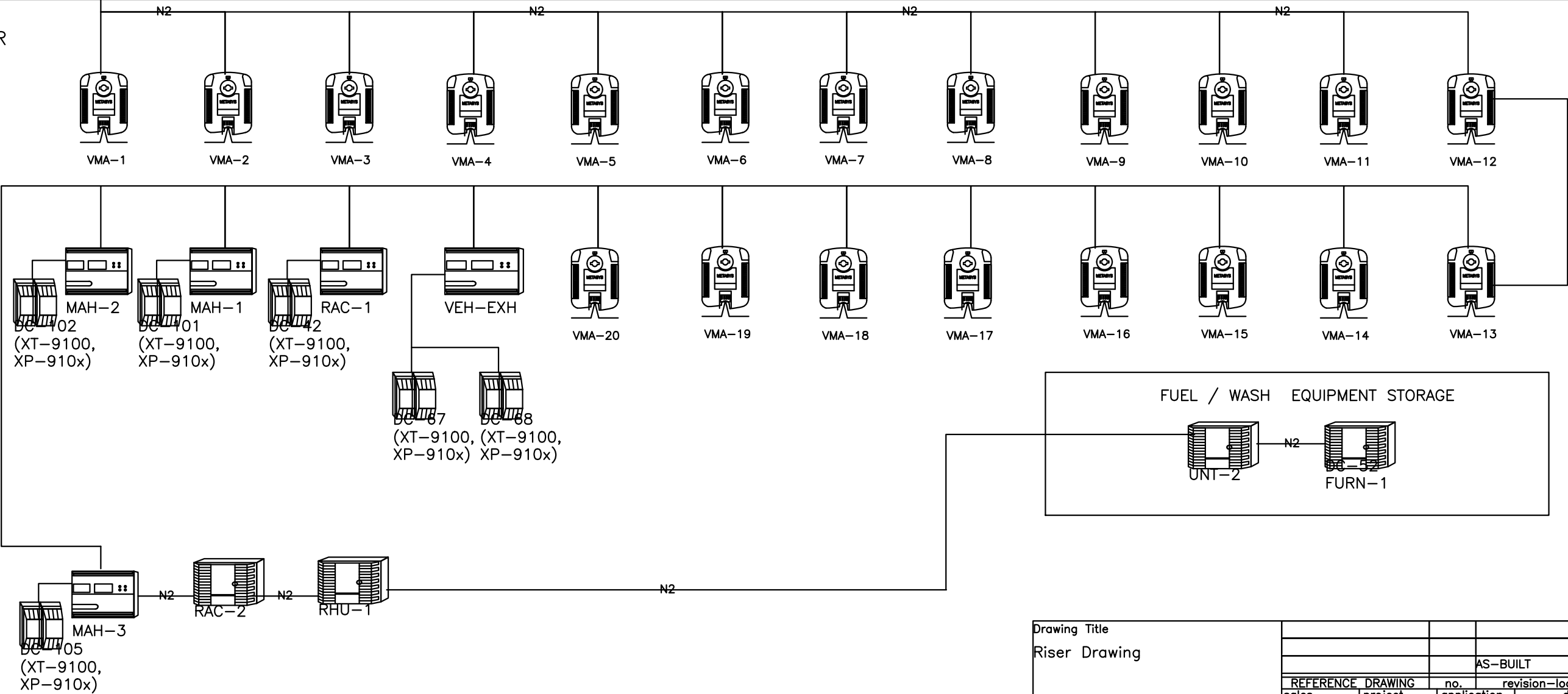
05/15/02

WTA

2ND FLOOR
ADMIN



1ST FLOOR
ADMIN



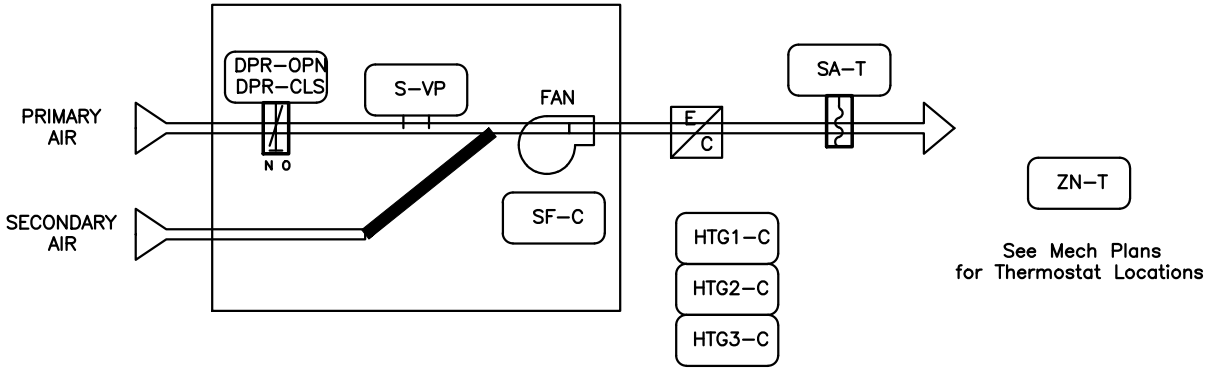
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	REFERENCE DRAWING		no.	revision—location			ecn	date	by
Project Title WTA	sales engineer	project manager	application engineer	drawn by MAS date 02/01/01			approved date 0		
				branch 2100 NORTH ST. SW SUITE 125 LYNNWOOD WA, 98036 Ph. 425/673-4446 Fax 425/673-2886			contract number 2000-026 drawing number of 30 RSR1-1		

SINGLE DUCT fpb?S

WITH 3 STAGE OF ELECTRIC HEAT
AND series FAN

TYPICAL OF 31

See Room Schedule for box information



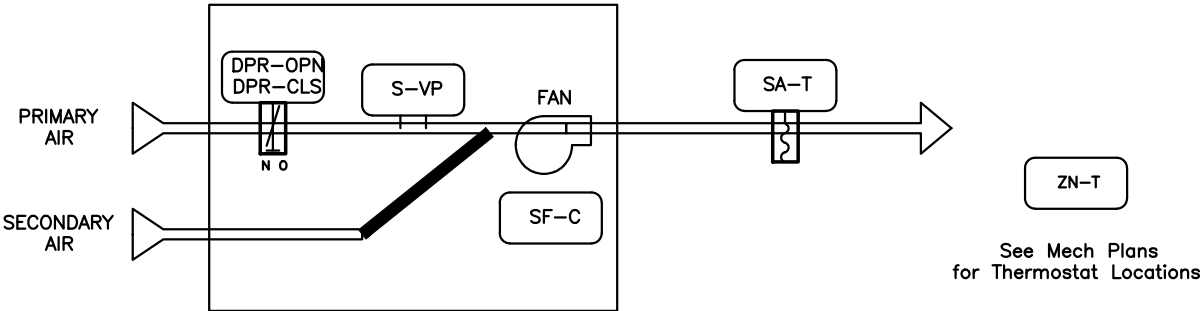
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Designation ?Qty?Part Number?Description
Field Devices:
VMA CONTROLLER?31?AP-VMA1420-0?VAV MODULAR ASSY -
CLG W/ REHEAT
SA-T?31?TE-6300-601?SENSOR ELEMENT,NICKEL,8IN,1K
Other Devices:
ZN-T?31?TMZ-1600?T-STAT

Drawing Title FPB With Heat Flow Diagram						
			1		AS-BUILT	
					\$/15/02 MWK	
	REFERENCE DRAWING		no.	revision-location		ecn
Project Title WTA	sales engineer	project manager	application engineer	drawn by	approved by	
	D.D.	MS	MS	by MAS	date	0
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					contract number	
					drawing number of 30	
						FPB1-1

SINGLE DUCT FPB'S
series FAN

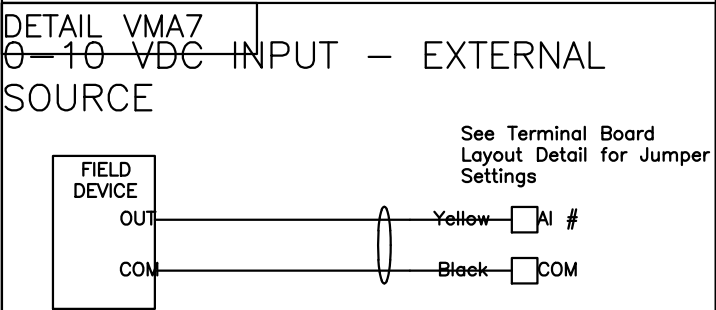
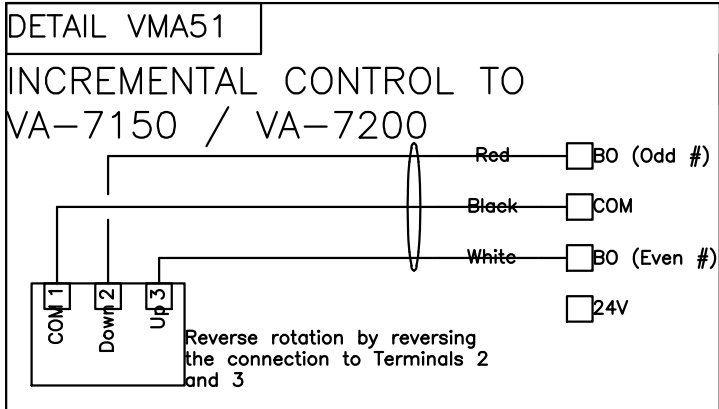
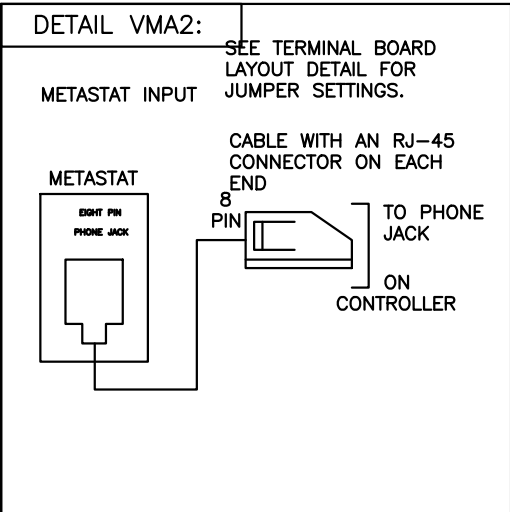
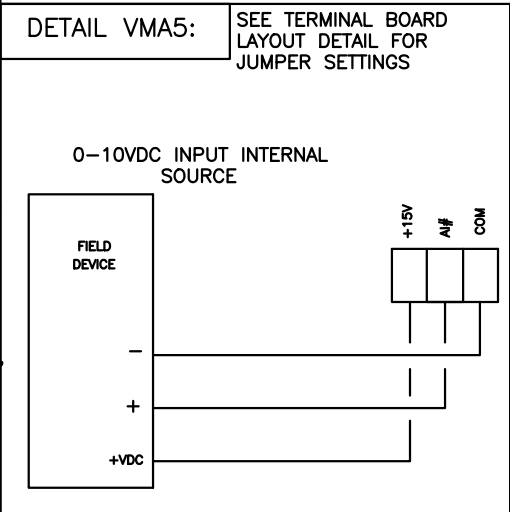
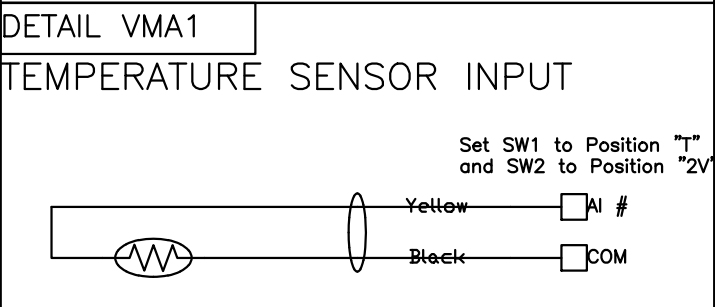
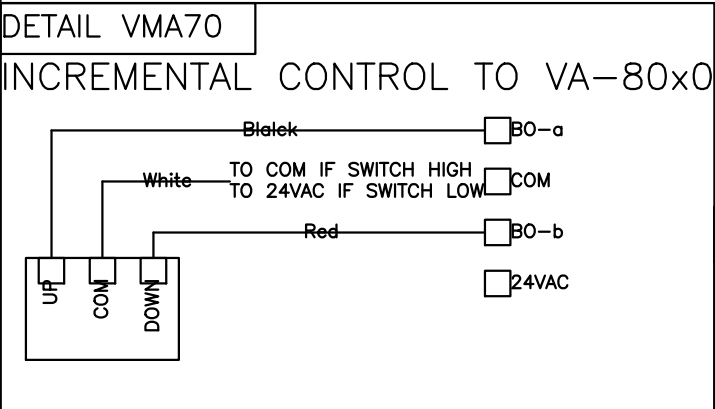
TYPICAL OF 8

See Room Schedule for box information



??Bill of Materials?			
??			
Designation	?	Qty?	Part Number?Description
Field Devices:	VMA CONTROLLER?8?AP-VMA1420-0?VAV MODULAR ASSY -		
CLG W/ REHEAT	?0?TE-6300-601?SENSOR ELEMENT,NICKEL,8IN,1K		
Other Devices:	ZN-T?8?TMZ-1600?T-STAT		

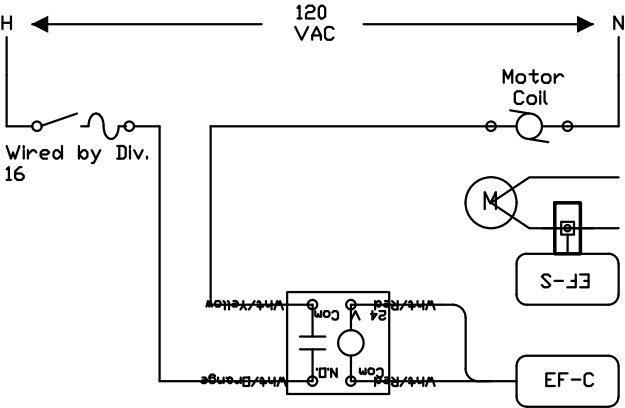
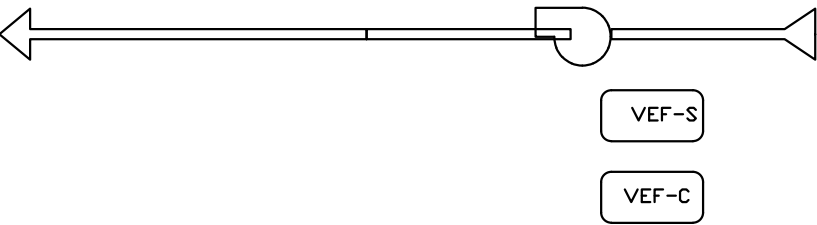
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		REFERENCE DRAWING	no.	revision-location	ecn	date
		sales engineer	project manager	application engineer	drawn by	approved by
Project Title WTA		by MAS	date01/02/01	by	date	0
		2100 196TH ST. SW		contract number		
		LYNNWOOD WA,		2000-026		
		Ph. 425/673-4446		drawing number of 30		
		Fax 425/673-2886		FPB1-2		



Drawing Title	
FPB Point Schedules	
Project Title	
WTA	

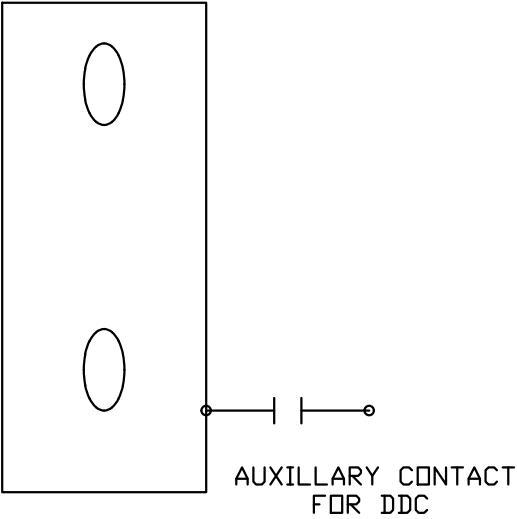
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REFERENCE DRAWING		no.		revision-location		ecn	
sales engineer		project manager		application engineer		drawn	
		by		date		approved	
		0		0		0	
		2000-026		2000-026		drawing number	
						of 30	
						FPB1-3	

VEHICLE EXHAUST
FAN
TYPICAL OF 3



EF WIRING

HOSEREEL

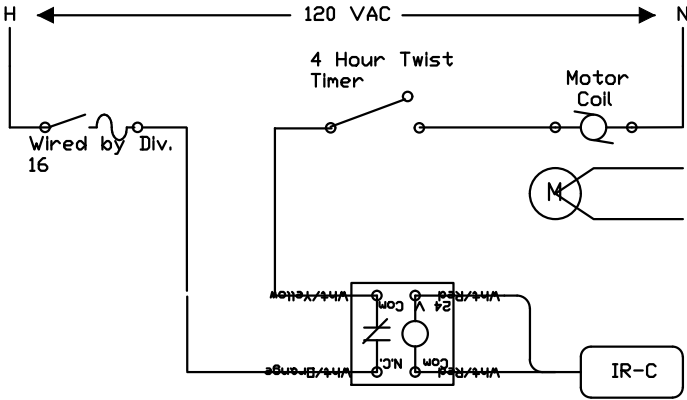


HOSEREEL	VEHICLE EXHAUST FAN
H.R. #1	VEH-1
H.R. #2	VEH-1
H.R. #3	VEH-1
H.R. #4	VEH-2
H.R. #5	VEH-2
H.R. #6	VEH-3
H.R. #7	VEH-3
H.R. #8	VEH-3
H.R. #9	VEH-3
H.R. #10	VEH-2

INFRARED HEATERS
TYPICAL OF 9

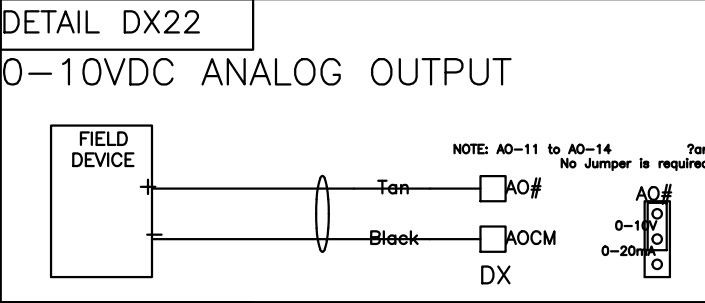


Inferred Heat Control



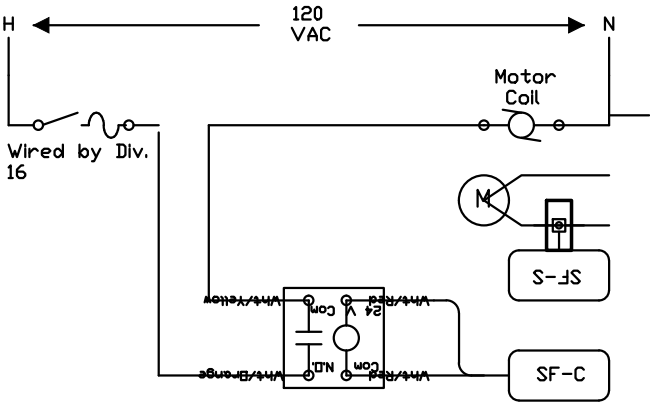
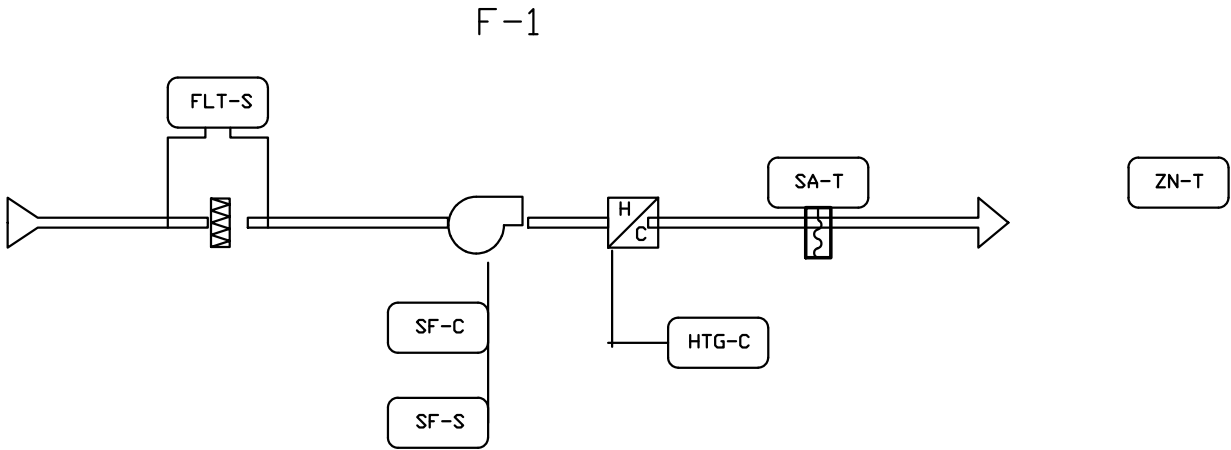
??Bill of Materials?
??
Designation ?Qty?Part Number?Description
Field Devices:
 STATUS?3?H-720?SENS,CURR,4-20MA,HI-ACC,SOLID
 FAN-C,INF-ENA?12?RIBUIC?RELAY
Panel Devices:
 CONTROLLER?1?DX-9100-8454?CNTRLR,DIG,DX,8AI,8AO,6BO,8BI
 ?1?DX-9100-8990?CNTRLR,DIG,DX,MTG BASE,F/ DX-91?0-8454
 ?1?DX-9100-8991?KIT,CNTRLR,DIG,DX,WIRING PROTECTION
 ?1?XP-9105-8304?CNTRLR,DIG,DX EXPN MOD,8BI,TRIACS,2/XT
 ?1?XT-9103-8304?CNTRLR,DIG,DX EXTENSION MODULE,8/DX

Drawing Title									
Vehicle Exhaust / Hose Reel									
Infrared Heat									
Flow Diagram									
			1	AS-BUILT				5/15/02	MWK
		REFERENCE DRAWING		no.	revision-location		ecn	date	by
		sales engineer	project manager	application engineer	drawn by		approved by		
					MAS date 01/02/01		by	date	0
Project Title					2000-198TH ST. SW		contract number		
WTA					3010 125		number		
					LYNNWOOD WA,		2000-026		
					98036		drawing number		
					Ph. 425/673-4446		of 30		
					Fax 425/673-2886		VHEF1-1		

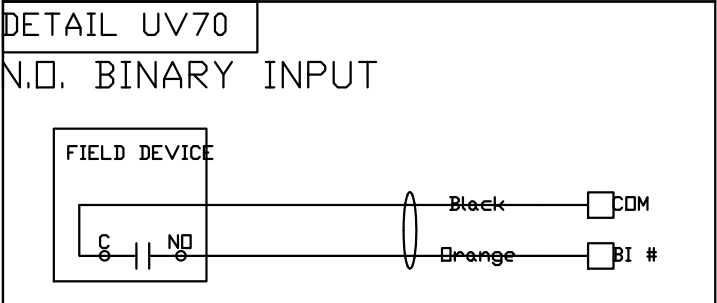
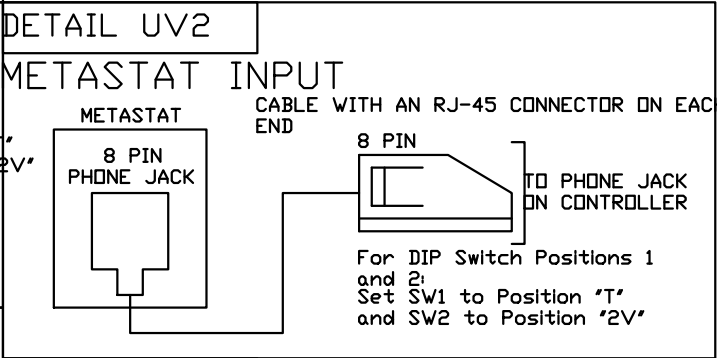
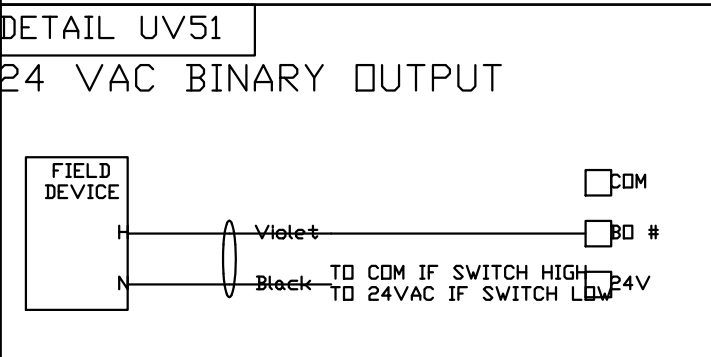
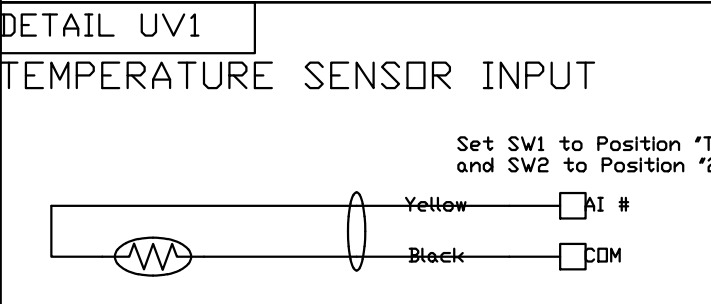
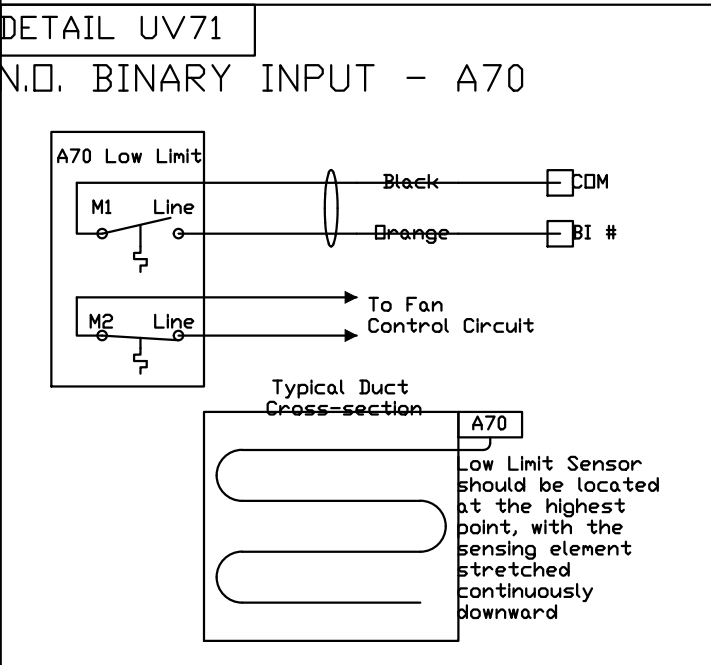


??Bill of Materials?
??
Designation ?Qty?Part Number?Description
Field Devices:

CONTROLLER?1?AS-UNT111-101?CNTRLR,DIG,UNT,6AI,4BI,6BO,2AO,ENCL,50VA
FILTER?1?DPT-2015-1?0-1.5" DIFF PRESS TO ELECTRIC TRANSP
STATUS?1?H-720?SENS,CURR,4-20MA,HI-ACC,SOLID
SA-T?1?TE-6311P-1?SENSOR,T-NI,0.1%,8IN DUCT
Other Devices:
FAN-C?1?RIB1US?RIB W/HOA
HEAT-C?1?RIBU1C?RELAY
RM-T?1?TMZ-1600?

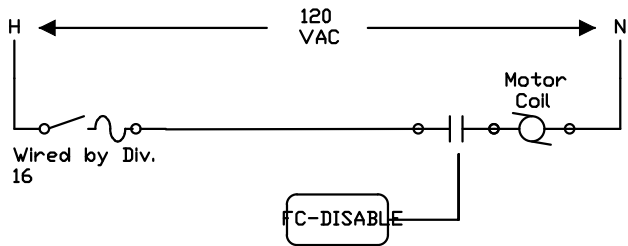
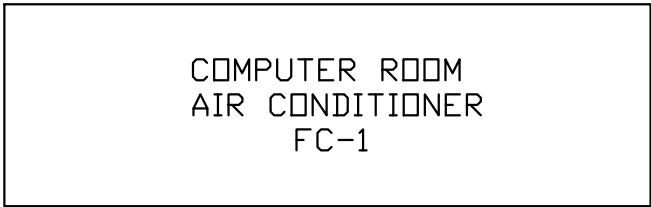


Drawing Title Furnace 1 Flow Diagram									
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	REFERENCE DRAWING		no.	revision-location		ecn	date	by	
Project Title WTA	sales engineer	project manager	application engineer	drawn by		approved by			
				MAS		date		0	
				01/02/01		date		0	
				2100 NORTH ST. SW 301 F1-1 LYNNWOOD WA, 98036 Ph. 425/673-4446 Fax 425/673-2888		contract number 2000-026 drawing number 30 of 30 F1-1			

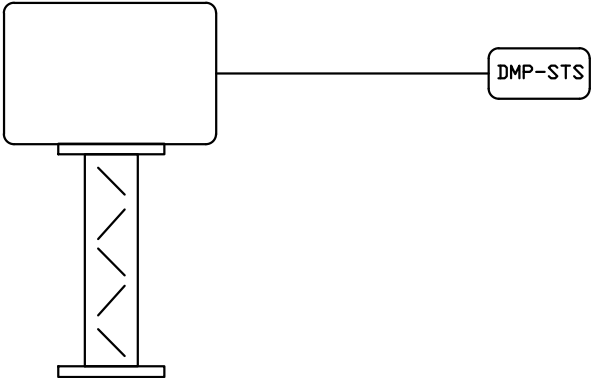


Drawing Title						
Furnace 1 Point Schedule						
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sales engineer	project manager	application engineer	drawn by	approved by	date	0
Project Title		2000-026		contract number		
WTA		3016 NORTH ST. SW LYNNWOOD WA, 98036 Ph. 425/673-4446 Fax 425/673-2886		drawing number		
				30 F1-2		

Computer Room Air
Conditioner



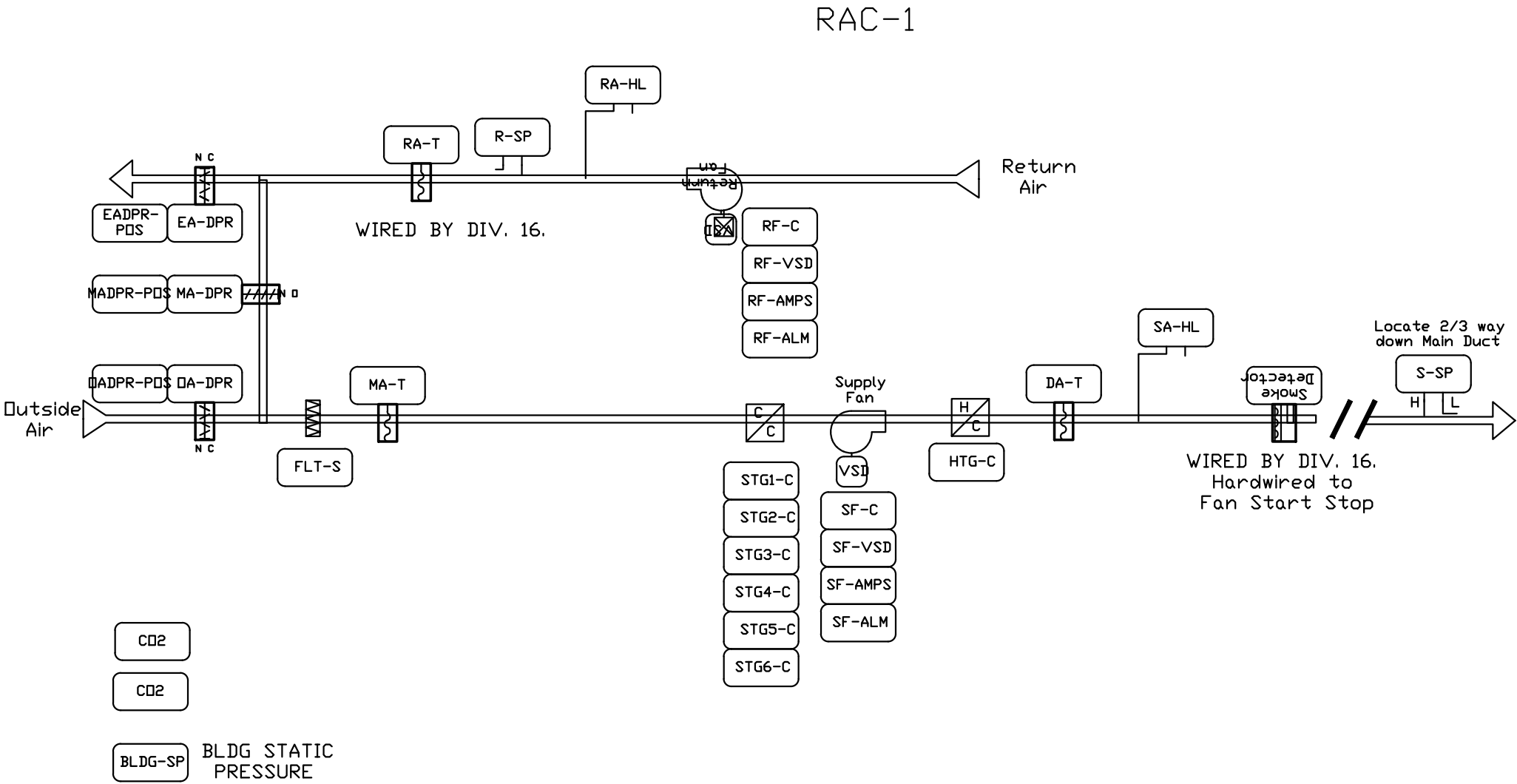
Smoke Damper Status



DAMPER	CONTROLLER	INPUT
I-54-2B	VMA-34	BI-1
I-54-2A	UNT-1	BI-4
I-54-1A	VMA-15	BI-2
I-54-1B	VMA-13	BI-2
FSD1	VEH-EXH	XT1DI6
FSD2	VEH-EXH	XT1DI7
FSD3	VEH-EXH	XT1DI8

??Bill of Materials?
??
Designation ?Qty?Part Number?Description
Other Devices:
FC-DISABLE?1?RIBU1C?RELAY

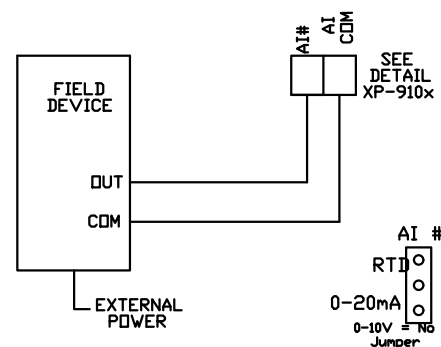
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sales	project	application	drawn	approved		
engineer	manager	engineer	byMAS	date01/02/01	by	date 0
Project Title				contract		
WTA				number		
				2000-026		
				drawing		
				number		
				10 of 30 FC1-1		



??Bill of Materials?
??
Designation QtyPart NumberDescription
Field Devices:
FLT-S?1?DPT-2015-1?0-1.5" DIFF PRESS TO ELECTRIC TRANS
S-SP, R-SP?2?DPT2640-005D?DP TRANS DIF, 0 TO 5 WC
BLDG-SP?1?DPT2640-0R5B?DP TRANS DIF, -0.5 TO 0.5
SF,RF-AMPS?2?H-720?SENS,CURR,4-20MA,HI-ACC,SOLID
EA,RA,DA-DPR?3?M9216-HGA-2?ACT,PRODP,140IN #,SR,0-10V-FB
SA-HL, RA-HL?2?AFS-460-DSS?PRESS SW,DP,DPDT,12IN
WC,L-BRKT
DA-T,RA-T?2?TE-6311P-1?SENSOR,T-NI,0.1%,8IN DUCT
MA-T?1?TE-6315P-1?SENSOR,T-NI,0.1%,8FT AVG
?3?T-275-101?HOLDER, AVG ELEMENT
?3?TE-6001-8?CLIP F/AVG ELEMENT,QTY 10
Panel Devices:
CONTROLLER?1?DX-9100-8454?CNTRLR,DIG,DX,8AI,8AO,6BI
?1?DX-9100-8990?CNTRLR,DIG,DX,MTG BASE,F/ DX-91?0-8454
?1?DX-9100-8991?KIT,CNTRLR,DIG,DX,WIRING PROTECTION
?1?XP-9106-8304?CNTRLR,DIG,DX EXPN MOD,6AI,2AO
?1?XT-9100-8304?CNTRLR,DIG,DX EXTENSION MODULE,8/DX
?1?XP-9106-8304?CNTRLR,DIG,DX EXPN MOD,6AI,2AO
?1?XT-9100-8304?CNTRLR,DIG,DX EXTENSION MODULE,8/DX
Other Devices:
SF-C, RF-C?2?RIB1UC?RELAY
STG1-C TO STG6-C?6?RIBU1C?RELAY
CD2?2??CARBON DIOXIDE SENSOR

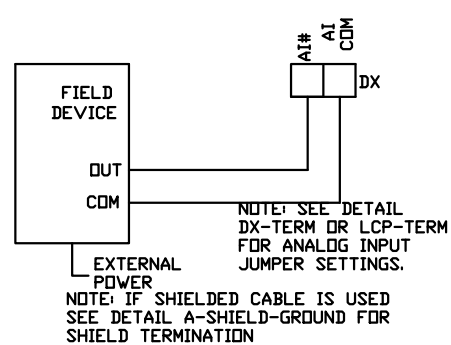
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RAC-1 Flow Diagram						
??AS-BUILT		1				ML109/02
REFERENCE DRAWING		no.	revision-location		ecn	date by
sales engineer	project manager	application engineer	drawn by	checked by	approved by	date
Project Title		WTA		2108 196TH ST. SW 301st LYNNWOOD WA, 98036 Ph. 425/673-4446 Fax 425/673-2886		contract number 2000-026 drawing number 1 of 30RAC1-1

DETAIL XP5:

0-10VDC INPUT EXTERNAL
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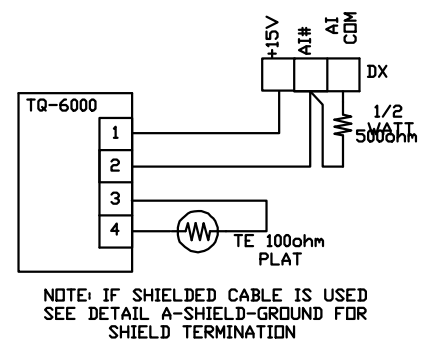
DETAIL DX6:

0-10VDC ANALOG INPUT
EXTERNAL SOURCE



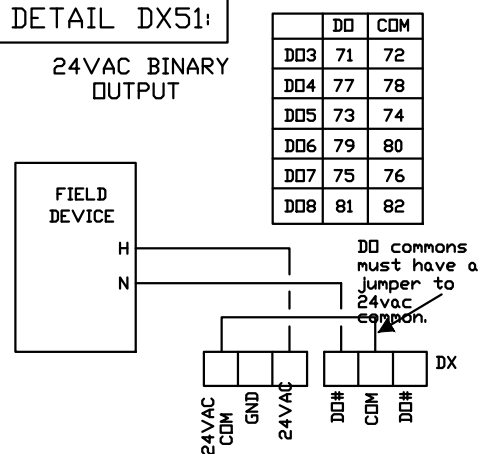
DETAIL DX8:

TQ-6000 0-20mA
ANALOG INPUT



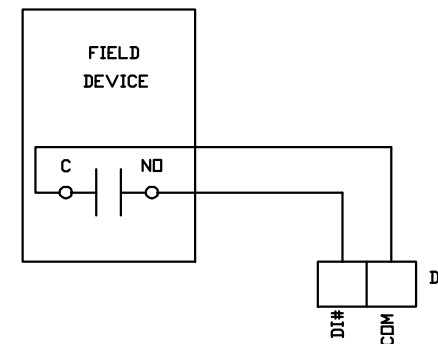
DETAIL DX51:

24VAC BINARY
OUTPUT



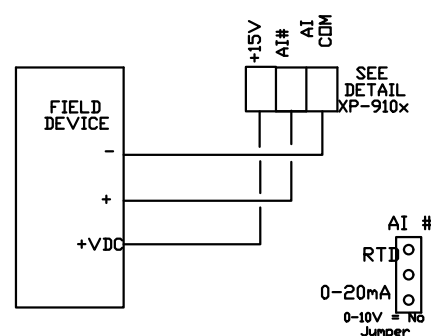
DETAIL DX70:

N.O. BINARY INPUT



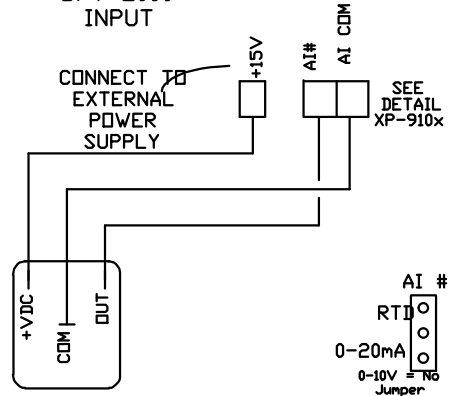
DETAIL XP6:

0-10VDC INPUT INTERNAL
SOURCE



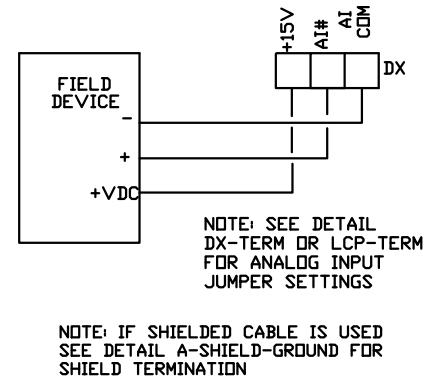
DETAIL XP9:

~~FILE 7~~
~~DPT-2000~~
INPUT



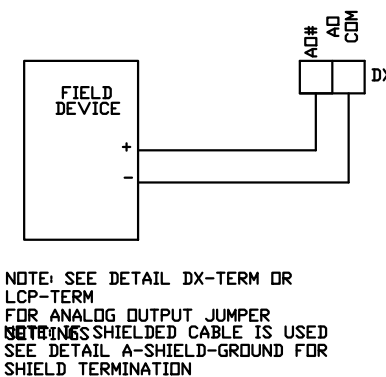
DETAIL DX7:

0-10VDC ANALOG INPUT
INTERNAL SOURCE



DETAIL DX22:

0-10VDC ANALOG OUTPUT



Drawing Title

RAC-1 Point Schedule

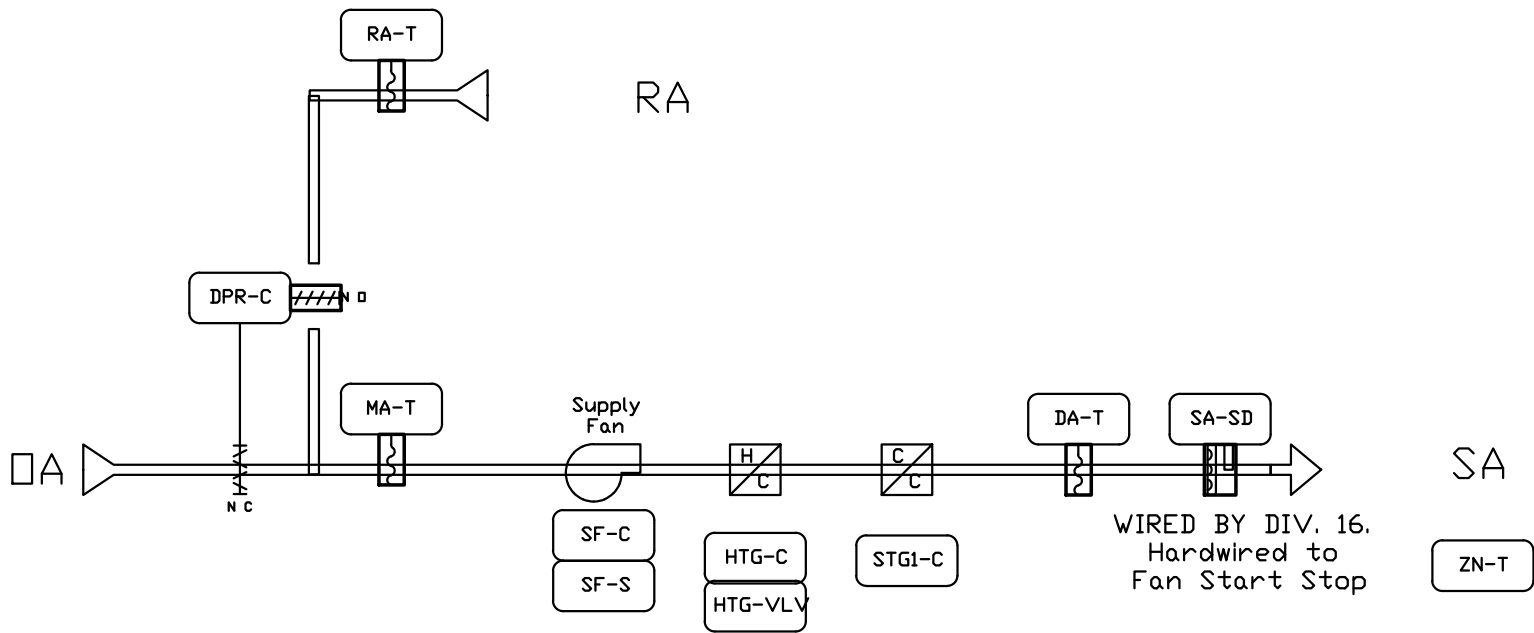
Project Title	
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WTA

??AS-BUILT								MVA 15/0	
REFERENCE DRAWING		no.		revision-location		ecn		date by	
sales engineer		project manager		application engineer		drawn by		approved by	
2000-026		MVA		by MAS date 01/02/01		by		date 0	
				2000-026 3011 NORTH ST. SW LYNNWOOD WA, 98036 Ph. 425/673-4446 Fax 425/673-2886		contract number 2000-026 drawing of 30 number		RAC1-2	

RAC-2

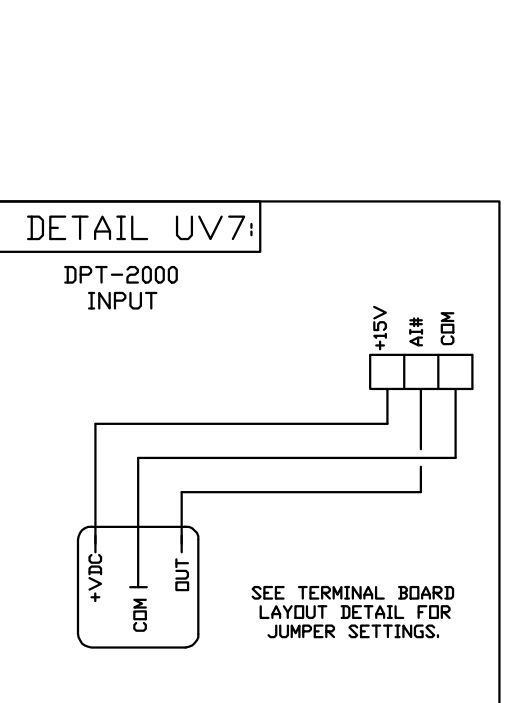
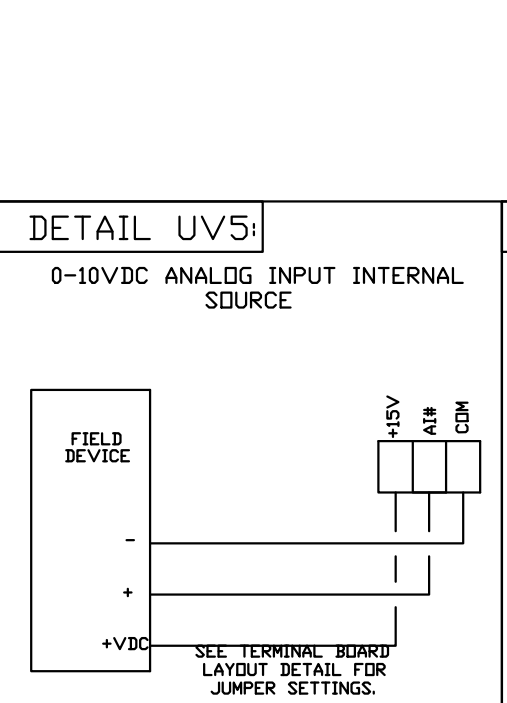
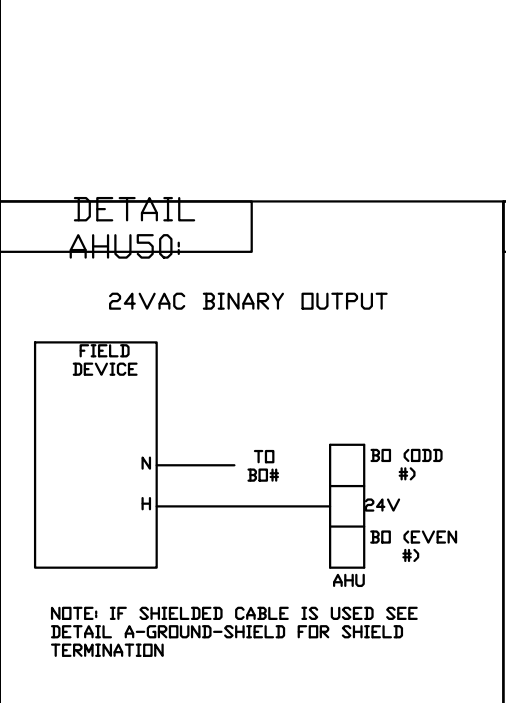
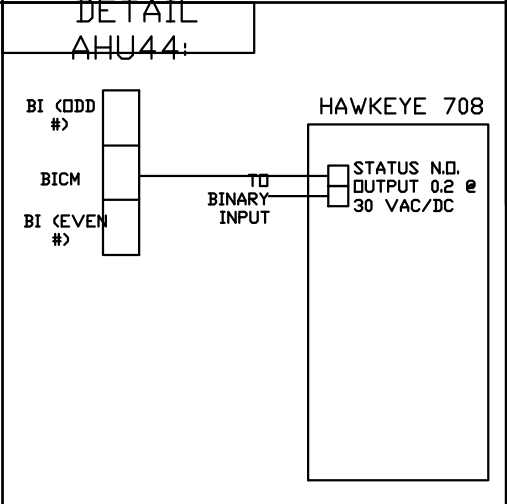
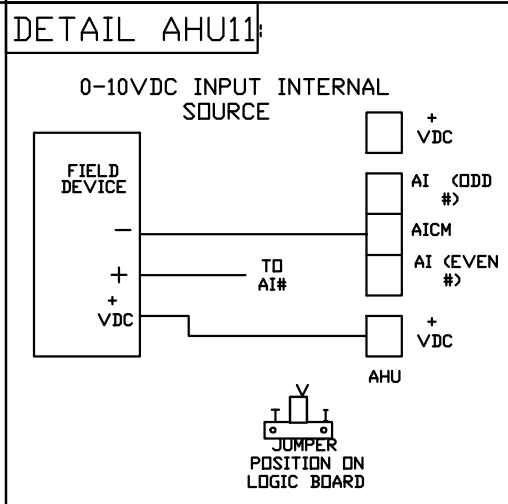
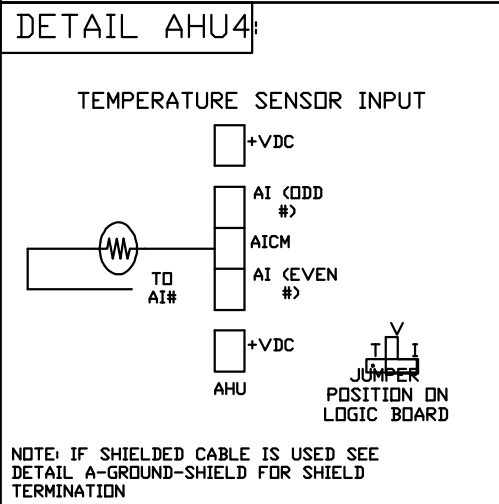
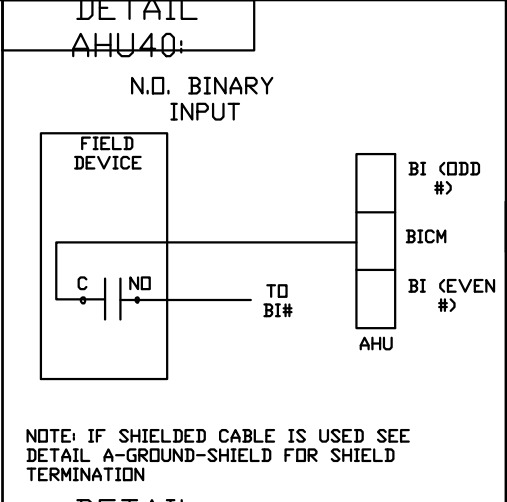
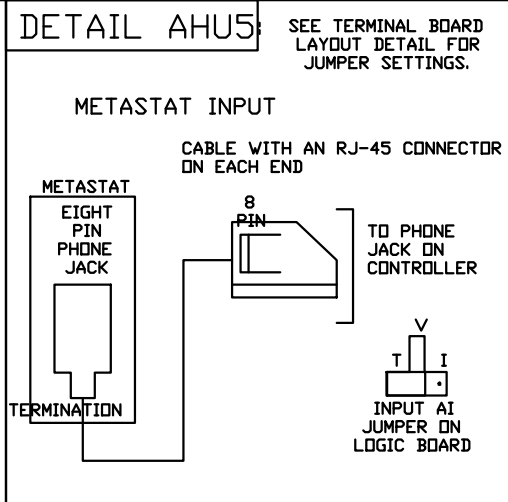
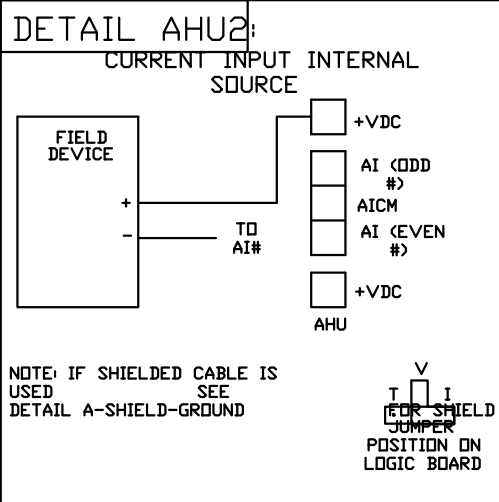
RA



??Bill of Materials?
??

Designation	Qty	Part Number	Description
Field Devices:			
SF-S	1	H-720	SENS,CURR,4-20MA,HI-ACC,SOLID
UNT	1	CONTROLLER	UNT CONTROLLER
RA,DA	1	DPR	M9216-HGA-2?ACT,PROP,140IN #,SR,0-10V-FB
DAT	1	TE-6311P-1	SENSOR,T-NI,0.1%,8IN DUCT DAT
MAT	1	TE-6100-2	SENSOR,T-NI,1.0%,8FT AVG MAT
RAT	1	TE-6311P-1	SENSOR,T-NI,0.1%,8IN DUCT RAT
SF-C	1	RIB1US	RIB W/HDA
STG1-C,	1	HTG-C	2?RIBU1C?
RM-T	1	TMZ-1600	

Drawing Title RAC-2 Flow Diagram									
	AS-BUILT		2						M/K
	REFERENCE DRAWING		no.	revision-location			ech	date	by
Project Title WTA	sales engineer	project manager	application engineer	drawn by			approved by		
				MAS date 01/02/01			date 0		
				2106 NORTH ST. SW SUITE 100 LYNNWOOD WA, 98036 Ph. 425/673-4446 Fax 425/673-2886			contract number 2000-026 drawing number of 30 RAC2-1		



Drawing Title		RAC-2 Point Schedule		Project Title		WTA	
AS-BUILT		2		revision-location		ecn	
REFERENCE DRAWING		no.		revision-location		ecn	
sales engineer		project manager		application engineer		drawn	
by KLB		date 01/02/01		approved		date 0	
2106 198TH ST. SW		30110		LYNNWOOD WA, 98036		contract number	
Ph. 425/673-4446		Fax 425/673-2888		drawing number		2000-026	
						drawing number	
						of 30 RAC2-2	

EA-DPR

EAFLTR-S

EA

EF-S

EF-C

FACE-PDS

FACE-DPR

H/X

BYPASS

HXS-T

SF-1

SA-T

SMOKE

SA

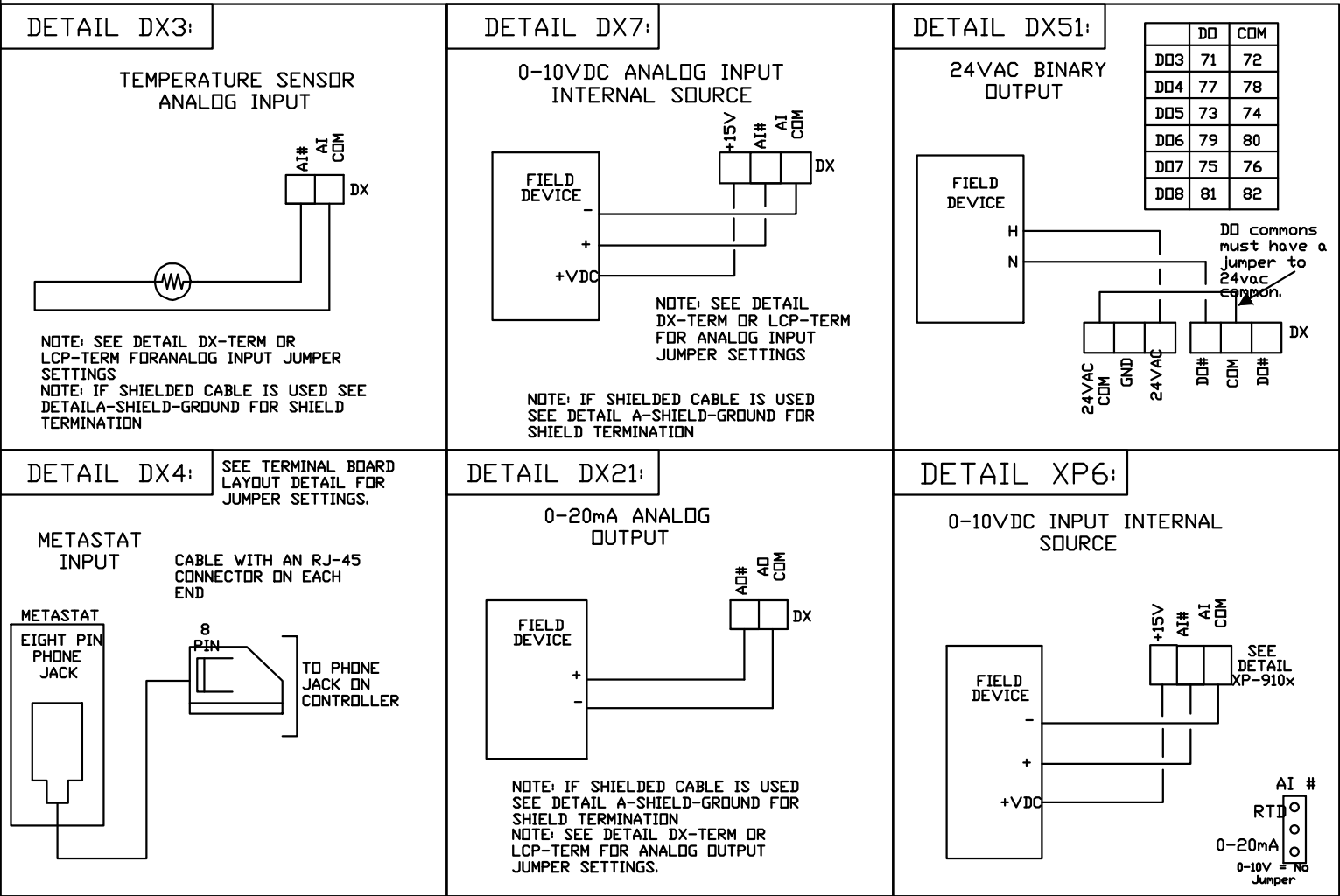
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Hardwired to
Fan Start Stop

CD

RM-T

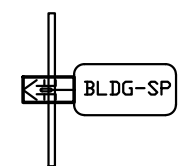
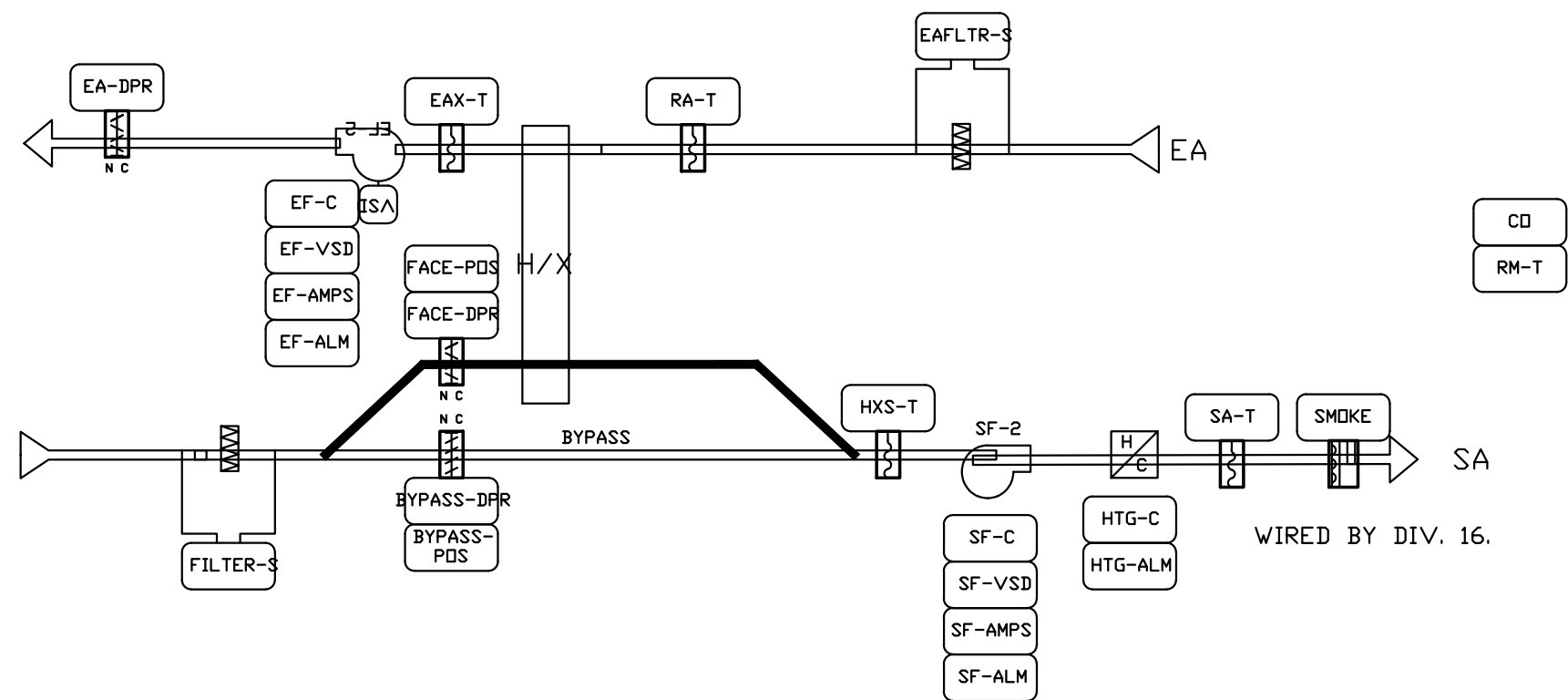
CO?1?RTS451?REMOTE CARBON MONOXIDE DETECTOR

Drawing Title MAH-1 Flow Diagram							
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	sales engineer	project manager	application engineer	drawn by	checked by	approved by	date
Project Title WTA				2900 NORTH ST. SW SUITE 125 LYNNWOOD WA, 98036 Ph. 425/673-4446 Fax 425/673-2886	contract number 2000-026 drawing number 15 of 30 MAH1-1		



Drawing Title MAH-1 Point Schedule						
			AS-BUILT		5/15/02	MWK
	REFERENCE DRAWING	no.	revision	location	ecn	date
	sales engineer	project manager	application engineer	drawn by	approved by	date
Project Title WTA			by MAS date 01/02/01		contract number 2000-026	
			2000 30TH ST. SW LYNNWOOD WA, 98036		drawing number of 30	
			Ph. 425/673-4446		MAH1-2	
			Fax 425/673-2886			

MAH-2

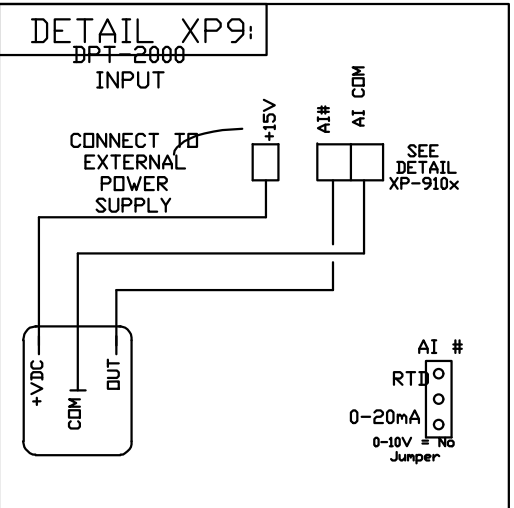
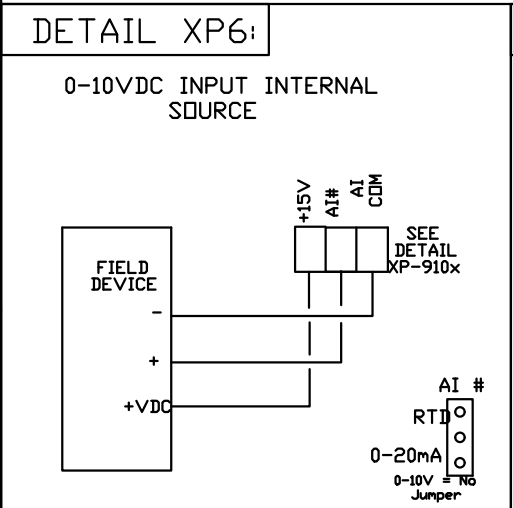
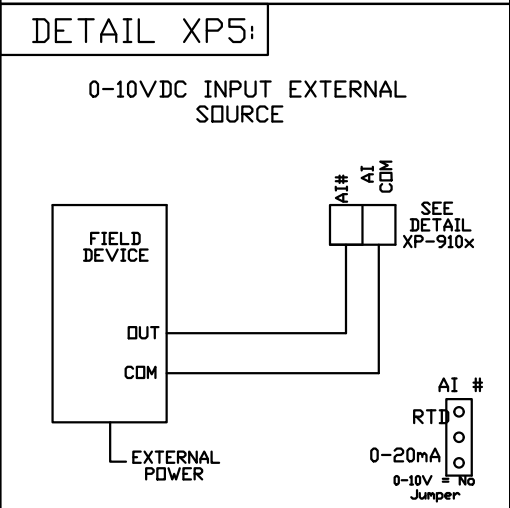
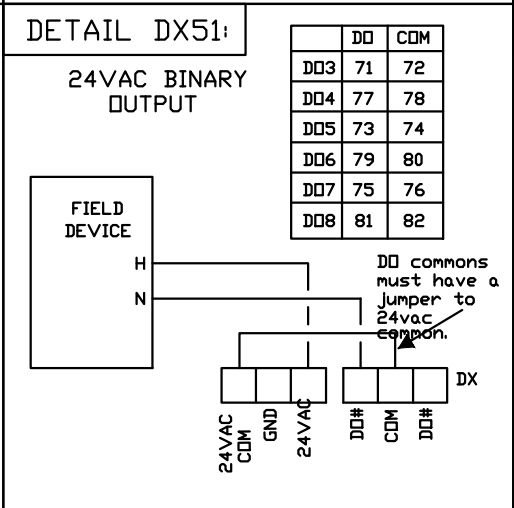
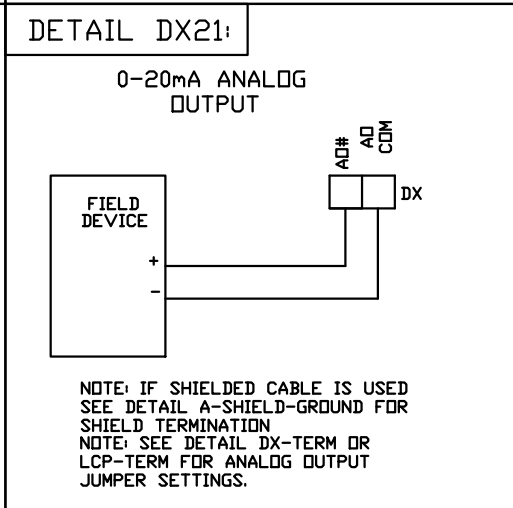
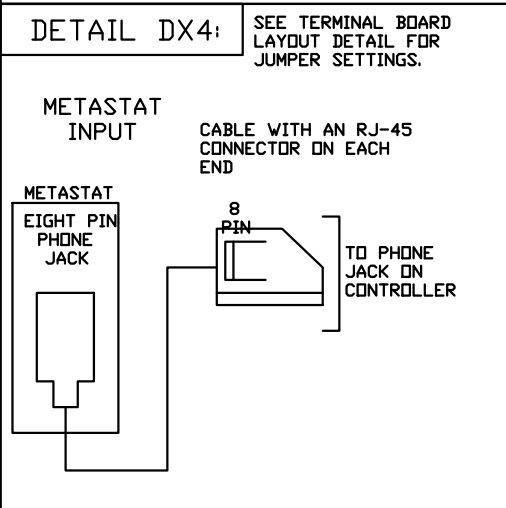
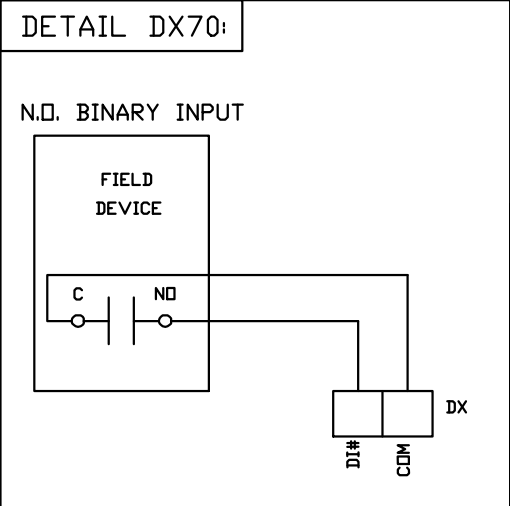
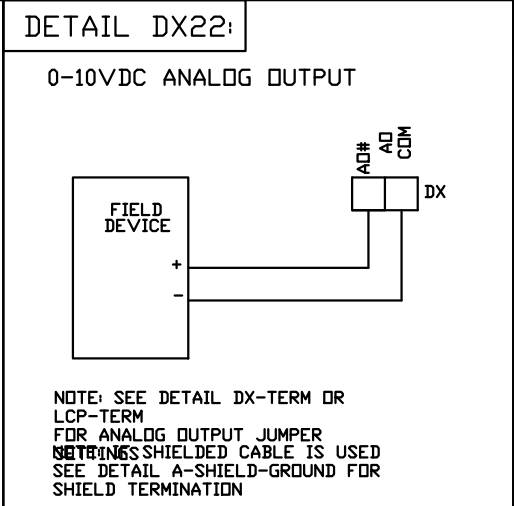
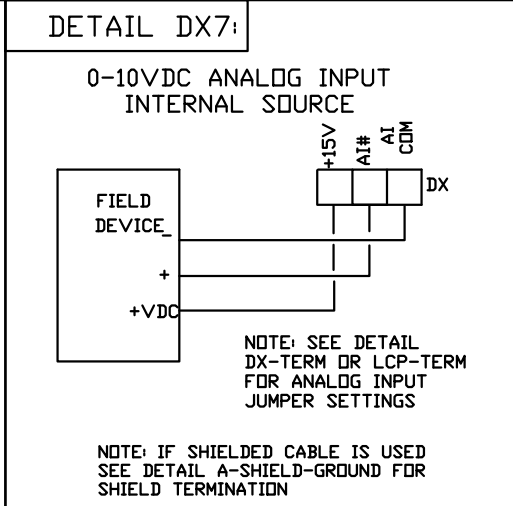
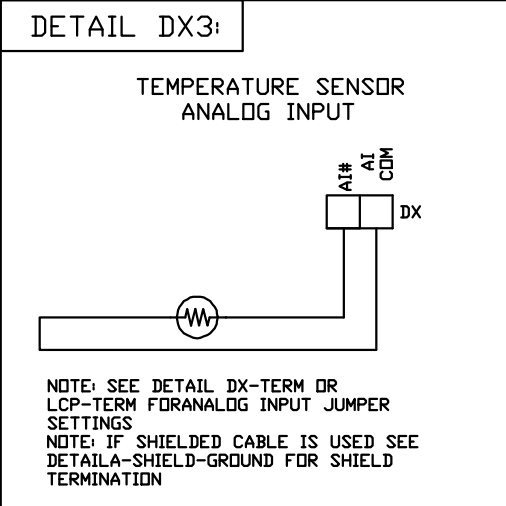


Located in Bay

??Bill of Materials?
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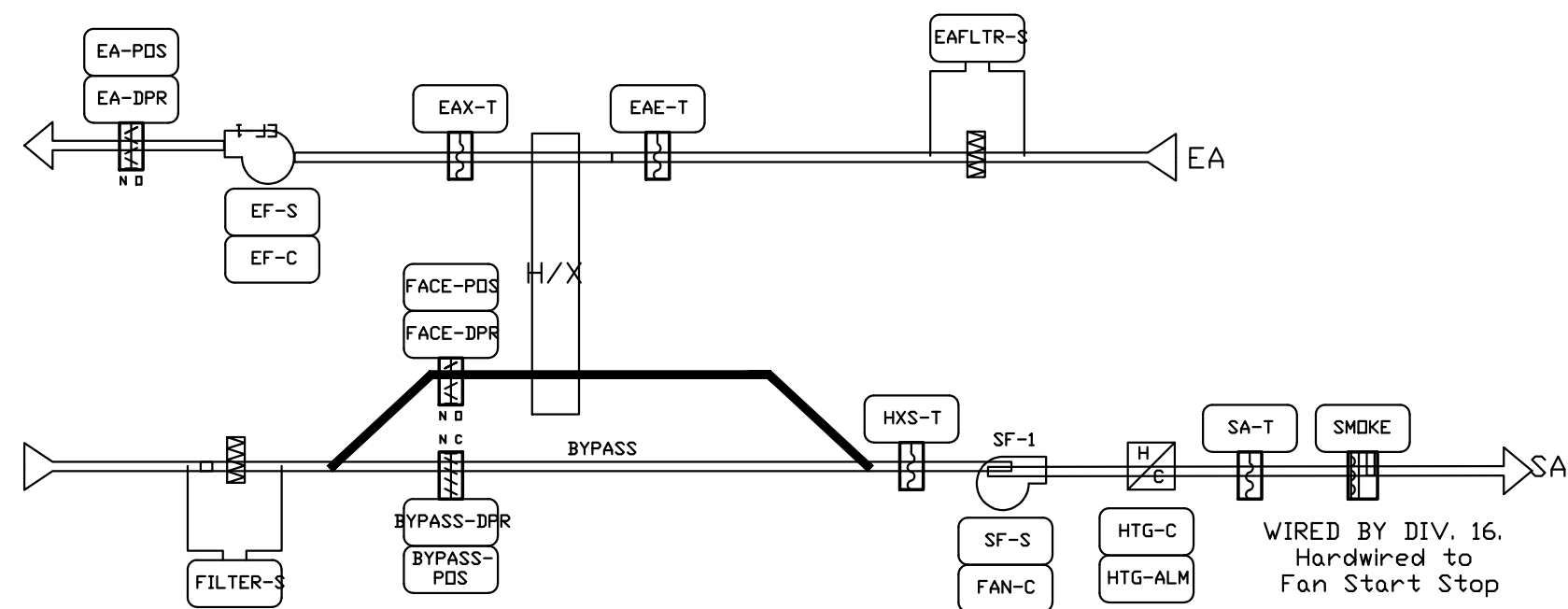
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Field Devices:			
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	1	DX-9100-8990	CNTRLR,DIG,DX,MTG BASE,F/DX9100
	1	DX-9100-8991	KIT,CNTRLR,DIG,DX,WIRING PROTECTION
	1	XT-9106-8004	CNTRLR,DIG,EXTENSION MODULE
	1	XP-9102-8004	CNTRLR,DIG,EXPN MODULE,6AI,2AO
			EAFLTR-S, FILTER-S
	2	DPT-2015-170-1.5"	DIFF PRESS TO ELECTRIC TRANSP
			BLDG-SP
	1	DPT2640-0R5B	DP TRANS DIF, -0.5 TO 0.5
			SF-S,EF-S
	2	H-720	SENS,CURR,4-20MA,HI-ACC,SOLID
			FACE-DPR, BYPASS-DPR
	2	NF24-SR	ACT,PROP,S.R.2-10V-FB
			EA-DPR
	1	M9216-BGC-2	ACT,2-PDS,SR,SW
			SA-T, RA-T, EAX-T,
			HXS-T
	4	TE-6311P-1	SENSOR,T-NI,0.1%,8IN DUCT
			SF-C
	2	RIBU1C	RELAY
			RM-T
	1	TE-6411S-2100	METATSTAT
			CD
	1	RTS451	REMOTE CARBON MONOXIDE DETECTOR

Drawing Title MAH-2 Flow Diagram										
				AS-BUILT			5/14/02	MWK		
	REFERENCE DRAWING		no.	revision-location			ecn	date	by	
	sales engineer	project manager	application engineer	drawn by	MAS	date	01/02/01	approved by	date	0
Project Title WTA				2106 1/2 TH ST. SW 3014 LYNNWOOD WA, 98036 Ph. 425/673-4446 Fax 425/673-2886			contract number 2000-026 drawing number of 30 MAH2-2			

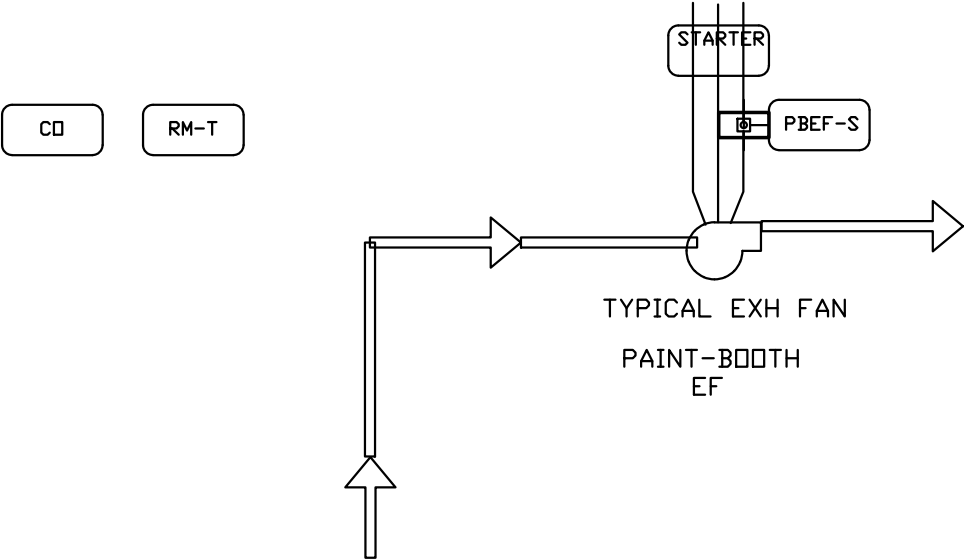


Drawing Title									
MAH-2 Flow Diagram									
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sales engineer		project manager		application engineer		drawn by		MAS	
DATE		DATE		DATE		DATE		DATE	
1/02/01		1/02/01		1/02/01		1/02/01		1/02/01	
2000-026		2000-026		2000-026		2000-026		2000-026	
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MAH-3

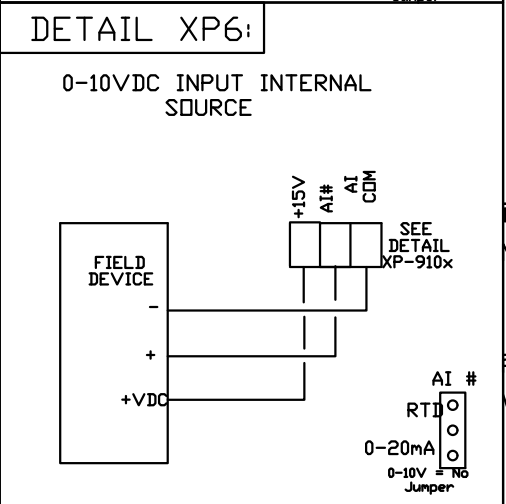
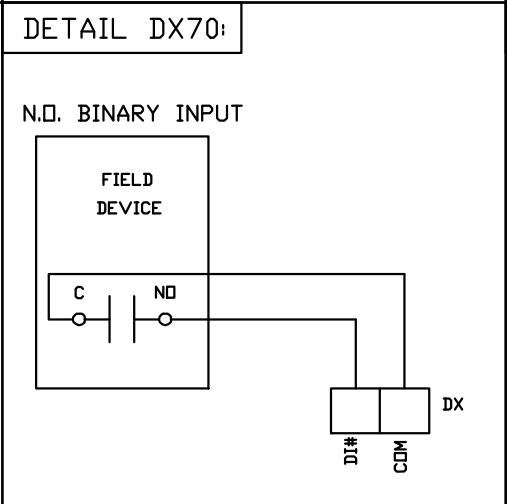
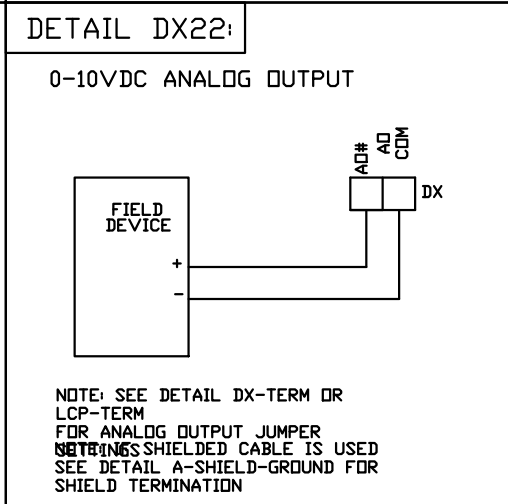
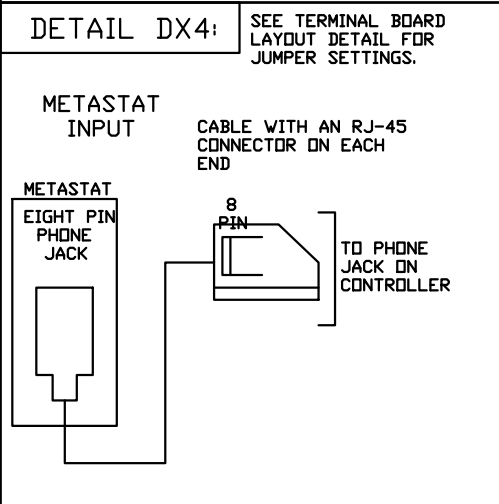
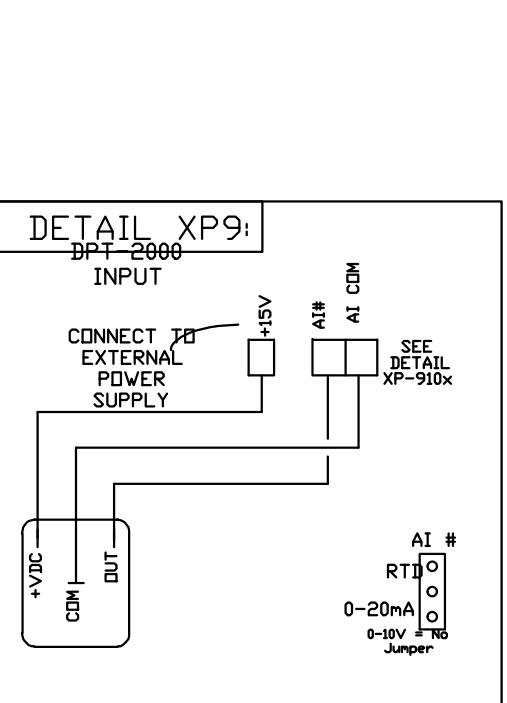
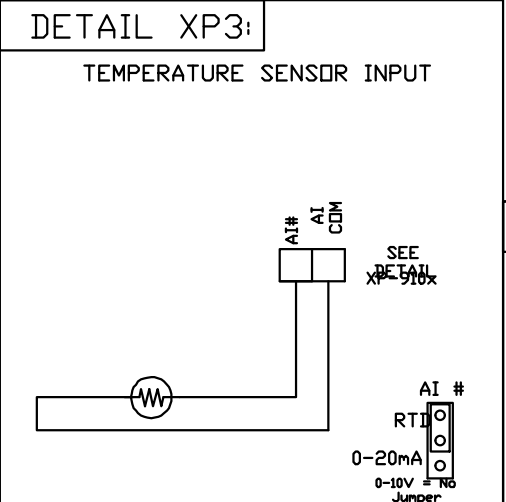
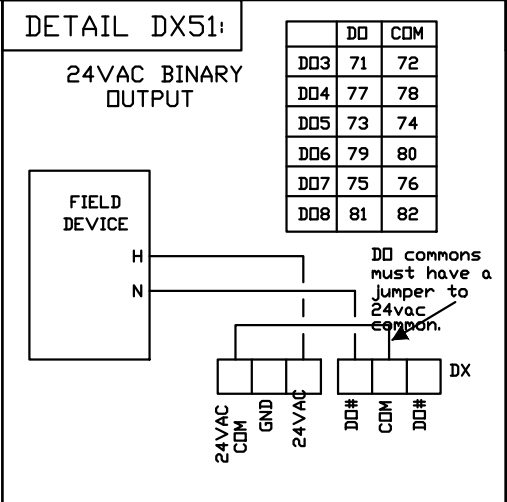
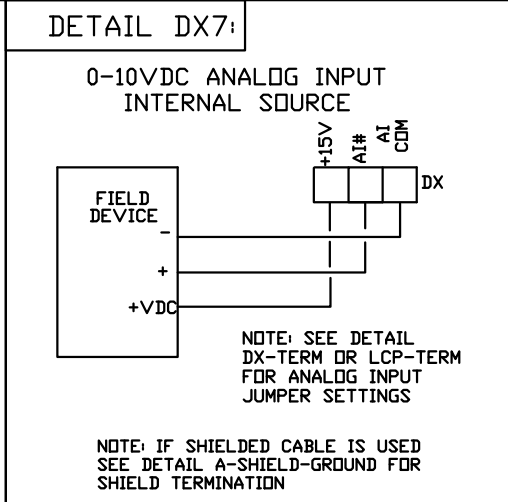
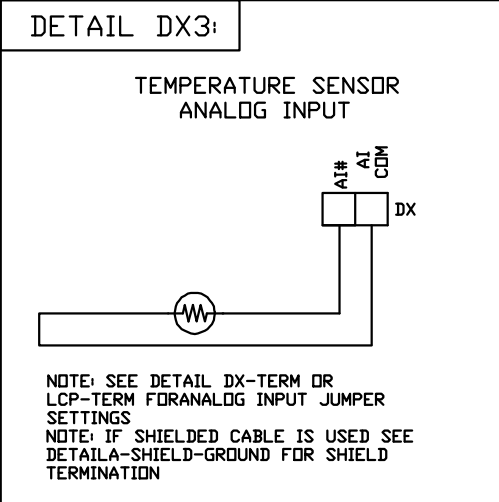


WIRED BY DIV. 16.
Hardwired to
Fan Start Stop

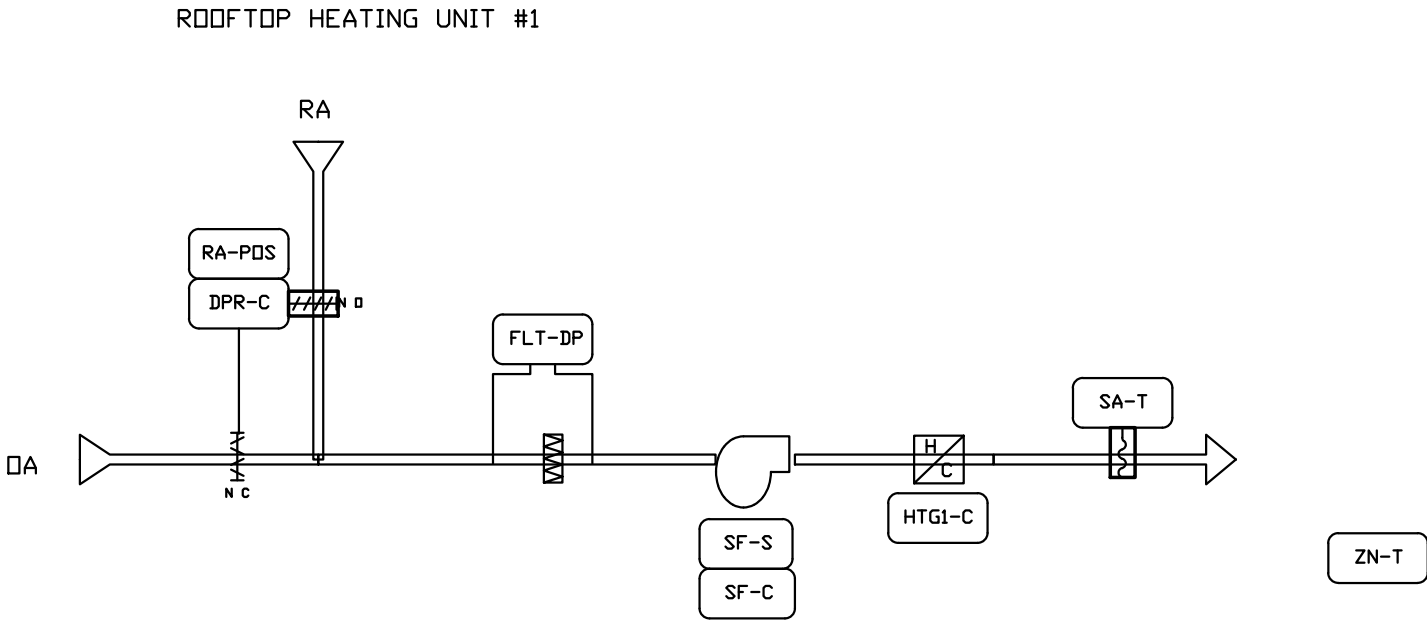


??Bill of Materials?
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Designation ?Qty?Part Number?Description
Field Devices:
CONTROLLER?1?DX-9100-8454?CNTRLR,DIG,DX,8AI,8AO,6BO,8BI
?1 ?DX-9100-8990?CNTRLR,DIG,DX,MTG BASE,F/DX-9100-8454
?1?DX-9100-8991?KIT, CNTRLR,DIG,DX,WIRING PROTECTION
?1?XT-9106-8304?CNTRLR,DIG,DX EXPN MOD
?1?XP-9102-8304?CNTRLR,DIG,EXTENSION 6AI,2AO
FILTER-S?2?DPT-2015-1?0-1.5" DIFF PRESS TO ELECTRIC
TRANSP
SF-S, EF-S?2?H-720?SENS,CURR,4-20MA,HI-ACC,SOLID
FACE,BYP-DPR?2?NF24-SR?ACT,PROP,SR,2-10V-FB
EA-DPR?1?M9216BGC-2?ACT.2POS.SR,AUX SWITCH
HXS-T, EAX-T,
EAE-T, SA-T?4?TE-6311P-1?SENSOR,T-NI,0.1%,8IN DUCT
SF-C,EF-C?2?RIBU1C?RELAY
RM-T?1?TE-6411S-2100?METASTAT
CD?1?RTS451?REMOTE CARBON MONOXIDE DETECTOR

Drawing Title							
MAH-3 FLOW DIAGRAM		1		AS-BUILT		5/15/02 MWK	
REFERENCE DRAWING		no.		revision-location		ecn	
sales		project		application		drawn	
engineer		manager		engineer		approved	
Project Title		2100 158TH ST. SW		contract		number	
WTA		LYNNWOOD WA, 98036		2000-026		drawing	
		Ph. 425/673-4446		number		of 30 MAH3-1	
		Fax 425/673-2886					



Drawing Title									
MAH3-2 POINT SCHEDULE									



Bill of Materials?

Designation Qty Part Number Description

Field Devices:

CONTROLLER 1 AS-UNT111-101 CNTRLR,DIG,UNT,6AI,4BI,6BD,2AD,ENCL,50VA

FLT-DP 1 DPT-2015-170-1.5" DIFF PRESS TO ELECTRIC TRANSP

STATUS 1 H-720 SENS,CURR,4-20MA,HI-ACC,SOLID

DPR-C 1 NF24-SR ACT,PROP,140IN #,SR,2-10V-FB

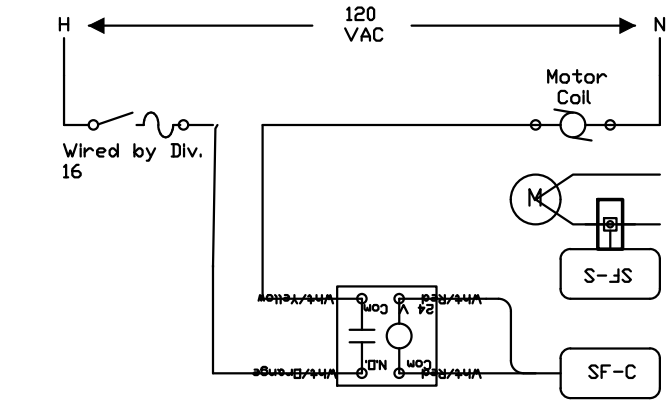
SA-T 1 TE-6311P-1 SENSOR,T-NI,0.1%,8IN DUCT

Other Devices:

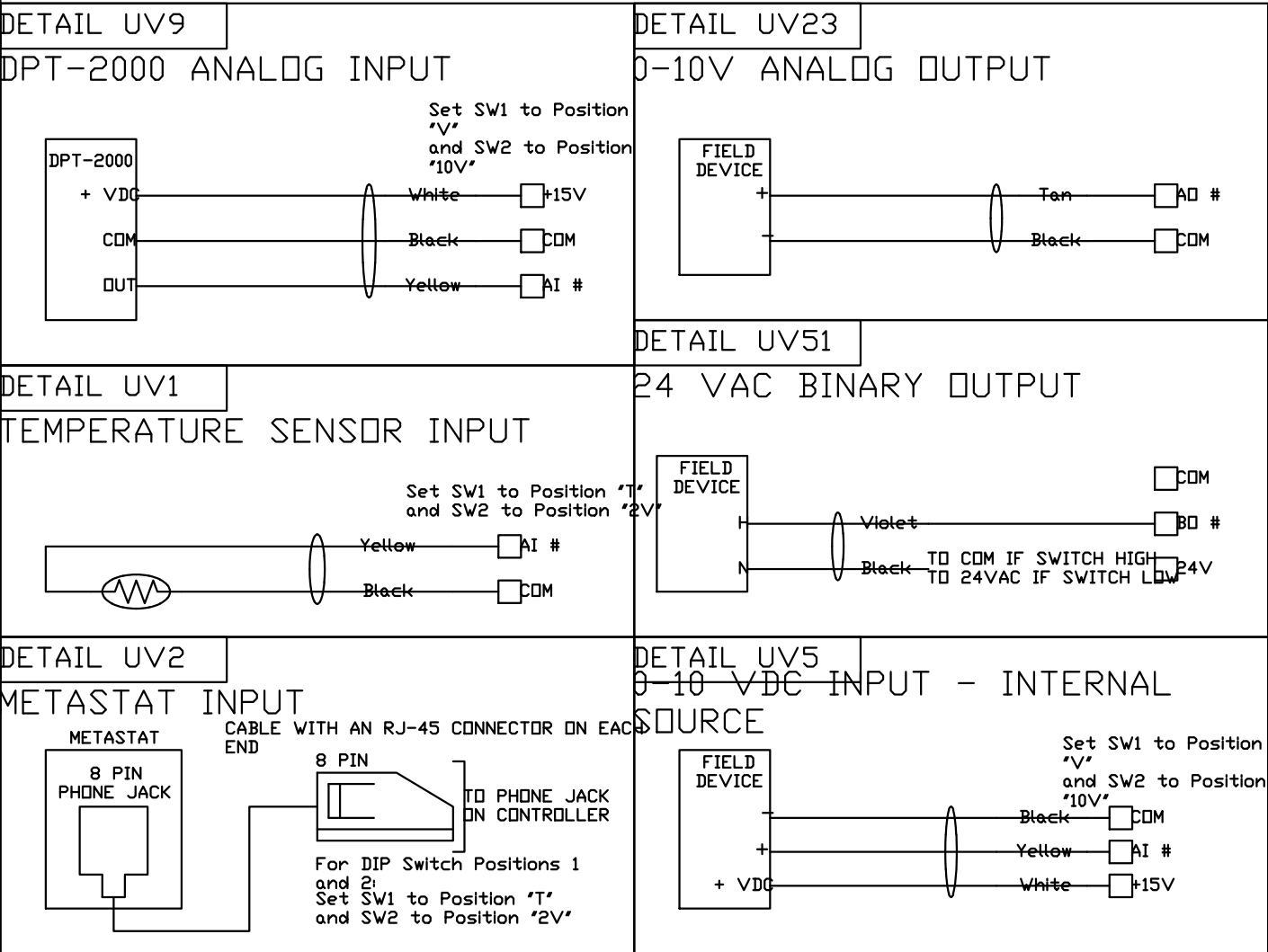
SF-C 1 RIB1US RIB W/HOA

HTG1-C 1 RIBU1C RELAY

ZN-T 1 TMZ-1600



Drawing Title RHU-1 Flow Diagram						
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Project Title WTA	REFERENCE	DRAWING	no.	revision	location	ecn
	sales	project	application	drawn		date
	engineer	manager	engineer	by	date	approved
				by	date	date
			2100 196TH ST. SW		contract	
			301 PMB		number	
			LYNNWOOD WA,		2000-026	
			98036		drawing	
			Ph. 425/673-4446		number	
			Fax 425/673-2886		of 30 RHU1-1	



Drawing Title						
RHU-1 Point Schedule						
			AS-BUILT		\$/15/02	MWK
REFERENCE DRAWING	no.	revision	location	ecn	date	by
sales engineer	project manager	application engineer	drawn by	approved by	date	
			MAS		01/02/01	0
Project Title			2100 158TH ST. SW 301P LYNNWOOD WA, 98036 Ph. 425/673-4446 Fax 425/673-2882	contract number		
WTA				2000-026		
				drawing number		
				OF 30		RHU1-2

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Designation

?Qty?	Part Number	Description
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Field Devices:

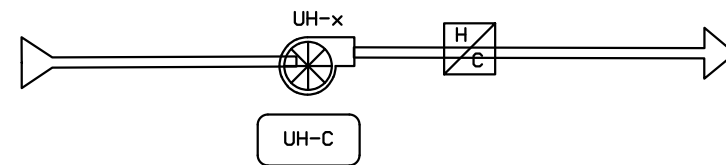
UH-C787CVR11C-07BOX RELAY SINGLE POLE SINGLE THROW

LUBE-ALM, RECL-ALM

WASH-ALM?3?TMZ-1600?T-STAT

CONTROLLER?2?AS-UNT111-1?APPLICATION SPECIFIC CONTROLER

TYPICAL FOR UH-1 TO
UH-3



Please Note The Lube Alarm Is
Generated By A Thermostat
Associated With Exhaust Fan 7

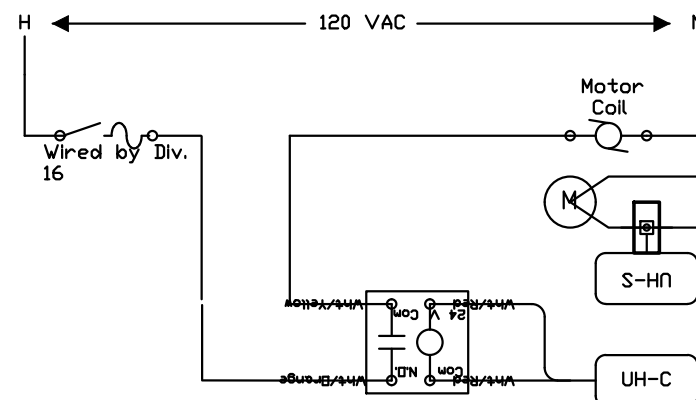
LUBE-ALM

RECL-ALM

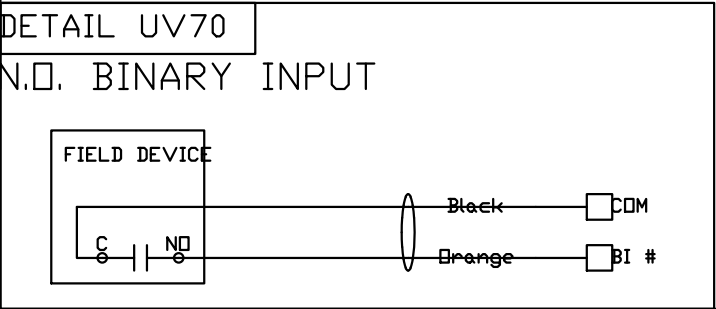
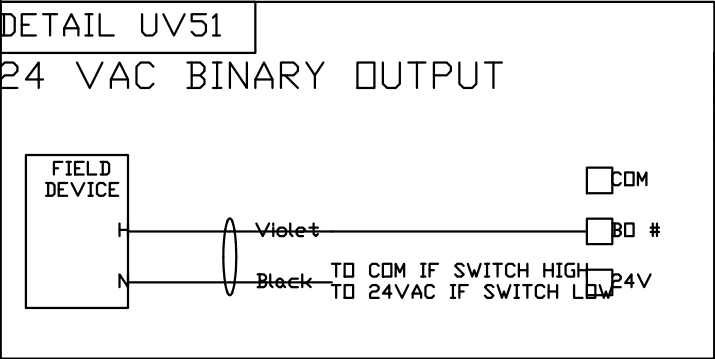
WASH-ALM

UNIT HEATER	CONTROLLER	OUTPUT
UH-1	UNT-2	B0-3
UH-2	UNT-2	B0-4
UH-3	UNT-1	B0-4

Typical Unit Heater Control



Drawing Title											
Unit Heater Flow Diagram											
		1		AS-BUILT				5/15/02		MWK	
REFERENCE DRAWING		no.		revision-location		ecn		date		by	
sales engineer		project manager		application engineer		drawn by		approved by		date	
JTB		JTB		MAS		MAS date 01/02/01				0	
Project Title				2000 SOUTH ST. SW		contract number					
WTA				SOITE 125		drawing number		2000-026			
				LYNNWOOD WA, 98036		of 30					
				Ph. 425/673-4446		UH1-1					
				Fax 425/673-2886							



Drawing Title						
Unit Heater Point Schedule						
			AS-BUILT		5/15/02	MWK
	REFERENCE DRAWING	no.	revision	location	ecn	date
	sales engineer	project manager	application engineer	drawn by	approved by	
Project Title			by MAS	date 01/02/01	date 0	
WTA			2000-026	30TH ST. SW LYNNWOOD WA, 98036	contract number	2000-026
			Ph. 425/673-4446		drawing number	of 30
			Fax 425/673-2886			UH1-2