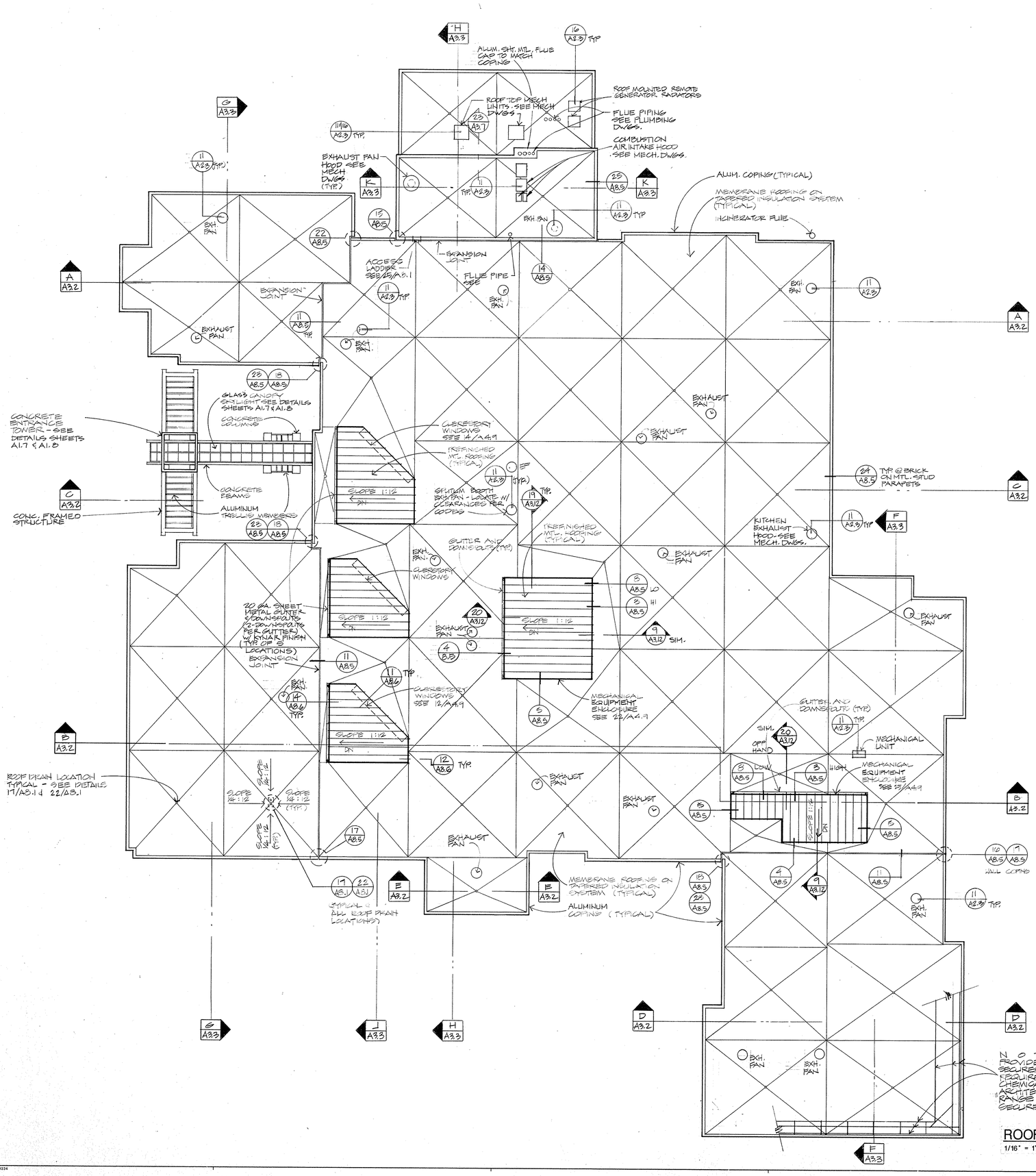
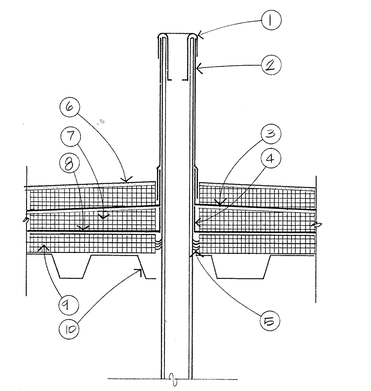


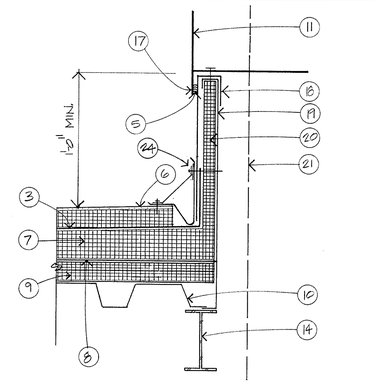
NOTE:
PROVIDE METAL STRAPPING PERIMETER SECUREMENT IN ACCORDANCE WITH MFRS REQUIREMENTS AND AS SHOWN IN THE DOW CHEMICAL CO. STYROFOAM BRAND INSULATION ARCHITECTURAL REFERENCE MANUAL, REFERENCE RANGE 3 SECUREMENT WITH PERIMETER SECUREMENT - TYPICAL - SEE SPECIFICATION

ROOF PLAN

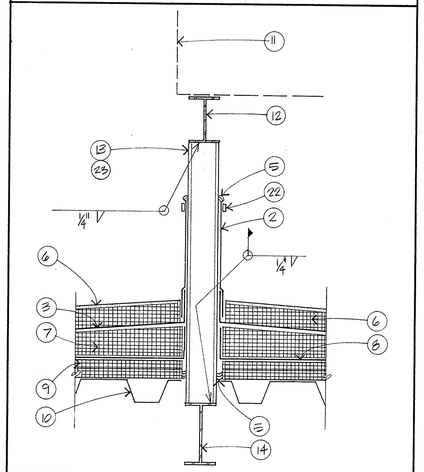
1/16" = 1'-0"



6 PIPE PENETRATION THROUGH ROOF 1 1/2"



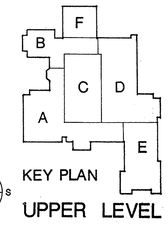
11 MECHANICAL EQUIPMENT CURB 1 1/2"



16 MECH. EQUIP. SUPPORT FRAME 1 1/2"

Wyatt/Rhodes architects inc.
ARCHITECTURE PLANNING
PHOENIX

REGISTERED ARCHITECT REG. NO. 4798 BURKE B. WYATT SOUTH DAKOTA



KEY PLAN
UPPER LEVEL

KEY NOTES

1. ROOFING MEMBRANE CAP OVER TOP
2. ROOFING MEMBRANE – UP SIDE
3. ROOFING MEMBRANE
4. FLASH UP VAPOR RETARDER FOR AIR INFILTRATION BARRIER
5. SEALANT
6. T. & G. CONCRETE CLAD INSULATION ROOF PANELS
7. TAPERED INSULATION
8. ASPHALT MEMBRANE VAPOR RETARDER
9. 2 LAYERS PERLITE RIGID INSULATION
10. METAL ROOF DECK
11. ROOF MOUNTED MECHANICAL EQUIPMENT
12. MECHANICAL EQUIPMENT STEEL SUPPORT FRAME - SEE STRUCTURAL
13. 4" O.D. STEEL PIPE MECHANICAL EQUIPMENT SUPPORT FRAME LEG @ 8'-0" O.C. MAX.
14. STEEL SUPPORT STRUCTURE - SEE STRUCTURAL
15. STEEL PIPE
16.
17. FLASH OVER CURB
18. ROOFING MEMBRANE OVER TOP OF CURB
19. PRE-FRABICATED SHEET METAL CURB TYP.
20. 1-1/2" RIGID INSULATION
21. DUCT THROUGH ROOF - SEE MECHANICAL
22. COLLAR CLAMP
23. MPE PIPE PENETRATIONS (EXCEPT VENTS) WHERE OCCUR
24. PERIMETER SECUREMENT COMPRESSION/ RETAINER BAR - TYPICAL - SEE SPEC.

NOTE:
VERIFY LOCATIONS OF ALL PIPES, DUCTS, CONDUIT, EQUIPMENT SUPPORT STANDS ETC. THAT PENETRATE OR ARE MOUNTED ON THE ROOF. VERIFY ALL LOCATIONS WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND INSTALL PER DETAILS AND MFGRS PRINTED INSTRUCTIONS AND REQUIREMENTS

REV	DATE	ACTION	DESCRIPTION	BY	APVD

DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF ENGINEERING SERVICES
2201 SIXTH AVENUE SEATTLE, WASHINGTON 98121

PINE RIDGE
COMPREHENSIVE HEALTH CARE FACILITY
PINE RIDGE, SOUTH DAKOTA

DEPARTMENT OF HEALTH & HUMAN SERVICES USA

DRAWING TITLE: ROOF PLAN
PROJECT NUMBER: D10 - 387
SCALE
DATE: 12.19.90
DRAWN: AT, DS
CHKD: AT
APVD
A2.3
SHT 29 OF 267

COMMERCIAL BLUEPRINT FORM • 129234

Overlays

THERMOSTATIC MIXING VALVE SCHEDULE

NO.	MANUFACTURER	MODEL	CW INLET CONNECT	HW INLET CONNECT	TW INLET CONNECT	CAPACITY IN GPM	REMARKS
#1	POWERS	431-1085 ROUGH BRASS	3/4"	3/4"	3/4"	10 GPM 120 PSI DROP.	PROVIDE WITH THERMOMETER. TEMP. RANGE 85°F TO 160°F.
#2	POWERS	431-1085 ROUGH BRASS	1 1/4"	1 1/4"	1 1/4"	55 GPM 10 PSI DROP.	PROVIDE WITH THERMOMETER. TEMP. RANGE 85°F TO 160°F. PROVIDE TWO MIXING VALVES.

DUPLEX AIR COMPRESSOR SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY AT 100 PSI	RPM	MOTOR HP	MOTOR VOLT	MOTOR Φ	MOTOR HZ	OPER. PRESS.	REMARKS
A.C.	OHMEDA	6910-9008 093	23.2 CFM EACH	-	7.5/7.5	480	3	60	100	120 GAL. ASME RECEIVER - 2 V-LESS COMP. DUPLEX NEMA 12 CONTROL CABINET TIMER/ALTERNATOR, PACKAGE SYS. H/ STEEL BASE EXTEND AIR INTAKE PIPE THRU ROOF
DRYER	OHMEDA	6910-9009 206	42.3 CFM AT 50 PSI	-	-	110	1	60		DESICCANT DRYER WITH PRE PACKAGED DUAL FILTER SYSTEM

DUPLEX VACUUM PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY @ 19" HG	RPM	MOTOR HP	MOTOR VOLT	MOTOR Φ	MOTOR HZ	REMARKS
V.P	OHMEDA	0395-0101-300	32 CFM EACH x 2 = 64	-	5/5	480	3	60	120 GAL RECEIVER, PROVIDE (2) 10395-5006-800 MUFFLERS, 10395-3303-300 (2) FLEX CONNECTORS, 10395-5403-300 (6) ISOLATION DAMPERS, EXTEND EXHAUST PIPES TO OUTSIDE THRU ROOF.

EQUIPMENT CONNECTION SCHEDULE (GROUP I & GROUP II)

SYMBOL-NO

MARK	DESCRIPTION	TRAP SIZE	CW	HW	REMARKS
33	STERILIZER	INDIRECT TO F.S		—	CONNECT WITH WATTS #800 VACUUM BREAKER, REGULATOR SET @ 30 PSI, SHOCK ABSORBER W/ SHUT-OFF VALVE. LOCATE VACUUM BREAKER ABOVE UNIT.
60	WASHER/ STERILIZER	INDIRECT TO F.S.	1"	—	CONNECT WITH WATTS #800 VACUUM BREAKER, REGULATOR SET @ 30 PSI, SHOCK ABSORBER W/ SHUT-OFF VALVE. LOCATE VACUUM BREAKER ABOVE UNIT.
62	GAS STERILIZER	INDIRECT TO F.S.	1"	—	CONNECT WITH WATTS #800 VACUUM BREAKER, REGULATOR SET @ 30 PSI, SHOCK ABSORBER W/ SHUT-OFF VALVE. LOCATE VACUUM BREAKER ABOVE UNIT.
64	STEAM GUN	INDIRECT TO F.S.	3/4"	—	CONNECT WITH SHOCK ABSORBER, SHUT-OFF VALVE, WATTS NO. U8 REGULATOR W/ STRAINER; SET @ 30 PSI.
65	STERILIZER	INDIRECT TO F.S.		1"	CONNECT WITH WATTS #800 VACUUM BREAKER, REGULATOR SET @ 30 PSI, SHOCK ABSORBER W/ SHUT-OFF VALVE. LOCATE VACUUM BREAKER ABOVE UNIT.
79/80/81	HEADWALL MODULE	—	—	—	CONNECT MEDICAL GAS PIPE AT TOP OF HEADWALL. SEE DRAWINGS FOR GASES TO EACH HEADWALL.
12	HEADWALL	—	—	—	CONNECT MEDICAL GAS PIPE AT TOP OF HEADWALL. SEE DRAWINGS FOR GASES TO EACH HEADWALL.
15	MEDICINE CENTER	1 1/2"	1/2"	1/2"	CONNECT WITH MCGUIRE 89:12 P-TRAP W/ EASTMAN C5RC25-LK STOPS.
53	ICE MACHINE	INDIRECT TO F.S.	1/2"	—	MAKE CW CONNECTION WITH SHUT-OFF VALVE
25	POWER COLUMN	—	—	—	CONNECT MEDICAL GAS PIPE AT TOP OF COLUMN. SEE DRAWINGS FOR GASES TO EACH COLUMN.
55	ICE MACHINE	INDIRECT TO CUP SINK IN COUNTER TOP	1/4"	—	MAKE CONNECTION WITH SHUT-OFF VALVE
251	X-RAY SOLUTION TANKS	INDIRECT INTO F.S.			SET F.S. IN BASIN FOR TANKS
56/57	ARM, LEG, HIP WHIRLPOOL /LOW BOY WHIRLPOOL	INDIRECT TO F.S.	3/4"	3/4"	INSTALL THERMOSTATIC MIXING VALVE FURNISHED WITH TUB. CONNECT 3/4" H & CW. RUN WASTE TO F.S. NOTE: MIXING SHALL BE FURNISHED W/ VACUUM BREAKER & FILL HOSE.
32	GLASS WASHER	1 1/2"	1/2"	1/2"	CONNECT WITH SHUT-OFF VALVES, SHOCK ABSORBERS W/ REGULATOR SET @ 30 PSI.
209	X-RAY PROCESSOR	INDIRECT INTO F.S.	1/2"	1/2"	SEE DETAIL #7 ON DRAWING P5.1

DOMESTIC HOT WATER CIRCULATING PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	GPM	TOTAL FT. HEAD	APM	MOTOR HP	MOTOR VOLT	MOTOR Φ	MOTOR HZ	REMARKS
C.P. #1	AMTROL	1 1/4 x 1 1/2 x 7 PCE 800	15	35	.750	1	480	3	60	BASE MOUNTED BRONZE FITTED SEE DETAIL ON DRAWING.
C.P. #2	AMTROL	3 GTB	10	20	.750	1/2	115	1	60	

FIRE PUMP SCHEDULE

MARK	MANUFACTURER	MODEL NO.	GPM	TOT. RANGE FT. HEAD	RPM	MOTOR HP	MOTOR VOLTS-PH-HZ	REMARKS
FP-1	PEERLESS	2ADF8	250	92-231	3500	15	480-3-60	PROVIDE W/ TRANSFER SWITCH
JP-1	GRUND FOS	CR2-30	4	127	3500	3/4	480-3-60	

NOTES: 1) PROVIDE REQUIRED FIRE PUMP CONTROLS, VALVES WITH TAMPER SWITCHES, CHECK VALVES, PRESSURE RELIEF VALVE, ETC... PROVIDE FLOW METER ASSEMBLY FOR PUMP TESTING.

PLUMBING SYMBOLS LIST

SYMBOL	ABBREV.	DESCRIPTION
— — —	C.I.	CAST IRON BELOW FLOOR
———	C.I.	CAST IRON ABOVE FLOOR
H ⊂⊃	WCO	WALL CLEAN OUT
Ø	FCO	FLOOR CLEANOUT
Ø	SCO	SURFACE CLEAN OUT
>		INDICATE DIRECTION OF FLOW IN PIPE
— - —	CW	COLD WATER PIPE
— - - —	HW	HOT WATER PIPE
— - - - —	HWR	HOT WATER RETURN PIPE
—⋈—	GV	GATE VALVE
—⋪—	CW	CHECK VALVE
—┼—	BV	BALL VALVE
—⊣	FP-B	FRESH PROOF HOSE BIBB
⋈	PRV	PRESSURE REDUCING REGULATOR
•I	S.A.	SHOCK ABSORBER W/ACCESS DOOR
- - - - -	V	VENT PIPE
J\L	VTR	VENT THRU ROOF (SHALL BE 4")
—╫—	BTV	BUTTERFLY VALVE
— O_2 —	O_2	OXYGEN PIPING
— V —	V	VACUUM PIPING
— A —	A	AIR PIPING (MEDICAL)
— A_D —	A_D	AIR PIPING (DENTAL)
— V_D —	V_D	VACUUM PIPING (DENTAL)
◎	F.D	FLOOR DRAIN
— LPG —		LIQUEFIED PETROLEUM GAS PIPING
— F.O —		FUEL OIL PIPE FOS = FUEL OIL SUPPLY FOR = FUEL OIL RETURN
⊠	F.S	FLOOR SINK
(R)	R.D.	ROOF DRAIN
O	O.R.D	OVERFLOW ROOF DRAIN
— RDL —	RDL	ROOF DRAIN LEADER
— ODL —	ODL	OVERFLOW DRAIN LEADER
Y	F.D	FIRE DEPARTMENT CONNECTION
⋈	D&TV	D&TV VALVE W/TAMPER SWITCH
FSW	FSW	FLOW SWITCH
— F —		SPRINKLER UNDERGROUND PIPE
		AUTOMATIC SPRINKLER RISER
— AS —	AS	AUTOMATIC SPRINKLER PIPE
		AREA NOT SPRINKLED
SVB-3		MEDICAL GASES ZONE VALVE (NO. INDICATES COUNT)
PA-3		MEDICAL GASES LINE PRESSURE ALARM PANEL (NO. INDICATES COUNT)
MGA		MEDICAL GASES MASTER ALARM PANEL
AO, V, N		MEDICAL GASES WALL OR CEILING OUTLET (AIR, OXYGEN, VACUUM, VACUUM SUCT)
— CA —		COMPRESSED AIR @ 100 PSI

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	TRAP SIZE	W	V	CW	HW	REMARKS
WC-1	WATER CLOSET	INTEGRAL	4"	2"	1"	-	WALL HUNG, BED PAN LUGS
WC-2	WATER CLOSET	INTEGRAL	4"	2"	1"	-	WALL HUNG
WC-3	WATER CLOSET	INTEGRAL	4"	2"	1"	-	WALL HUNG, WHEELCHAIR
WC-4	WATER CLOSET/LAVATORY	INTEGRAL	4"	2"	1"	-	WATER CLOSET W/ LAVATORY CABINET
WC-5	WATER CLOSET	INTEGRAL	4"	2"	1/2"	—	
L-1	LAVATORY	1 1/4" x 1 1/2"	2"	1/2"	1/2"	1/2"	WALL TYPE, WRIST BLADE HANDLES
L-2	LAVATORY	1 1/4" x 1 1/2"	2"	1/2"	1/2"	1/2"	WALL TYPE
L-3	LAVATORY	1 1/4" x 1 1/2"	2"	1/2"	1/2"	1/2"	COUNTER, SELF CLOSING FAUCET
L-4	LAVATORY	1 1/4" x 1 1/2"	2"	1/2"	1/2"	1/2"	COUNTER
L-5	LAVATORY	1 1/4" x 1 1/2"	2"	1 1/2"	1/2"	1/2"	COUNTER, WRIST BLADE HANDLES
L-6	LAVATORY	1 1/4" x 1 1/2"	2"	1/2"	1/2"	1/2"	INTEGRAL WITH COUNTER, WRIST BLADE HANDLES.
S-1	SINK	1 1/2"	2"	1/2"	1/2"	1/2"	SINGLE COMP., STAINLESS STEEL, WRIST BLADE HANDLES
S-2	SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	SINGLE COMP., STAINLESS STEEL, WRIST BLADE HANDLES
S-3	SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	ROUGH-IN ONLY, CAP WASTE W/ WATER BEHIND FINISH WALL
S-4	SINK - PLASTER	PLASTER TRAP	2"	1 1/2"	1/2"	1/2"	SINGLE COMP., STAINLESS STEEL, WRIST BLADE HANDLES
S-5	SINK	SOLID INTERCEPTOR	2"	1 1/2"	1/2"	1/2"	SINGLE COMP., STAINLESS STEEL, WRIST BLADE HANDLES, VACUUM BREAKER
S-6	SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	INTEGRAL WITH COUNTER, WRIST BLADE HANDLES, VACUUM BREAKER
S-7	SINK - PHOTO	DILUTION TRAP	2"	1 1/2"	1/2"	1/2"	SINGLE COMP.
S-8	SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	SINGLE COMP., FOOT PEDAL CONTROL
S-9	SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	DOUBLE COMP., STAINLESS STEEL, WRIST BLADE HANDLES.
S-10	SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	DOUBLE COMP., STAINLESS STEEL, DISPOSAL
S-11	SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	TRIPLE COMPARTMENT, STAINLESS STEEL, WRIST BLADE HANDLES
S-12	SINK - CUP	1 1/2"	—	—	—	—	WASTE ARM OVER
S-13	SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	SINGLE COMP, STAINLESS STEEL, WRIST BLADE HANDLES
S-14	SINK - PAINT ROOM	1 1/2"	2"	1 1/2"	1/2"	1/2"	WITH OIL INTERCEPTOR
S-15	SINK	SOLIDS INTERCEPTOR	2"	1 1/2"	1/2"	1/2"	SINGLE COMP, STAINLESS STEEL, WRIST BLADE HANDLES
SC-1	SCRUB SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	
SH-1	SHOWER	2"	2"	1 1/2"	1/2"	1/2"	
SH-2	SHOWER	2"	2"	1 1/2"	1/2"	1/2"	WITH HAND SPRAY W/ HOSE
SS-1	SERVICE SINK	3"	3"	1 1/2"	1/2"	1/2"	FLOOR TYPE, CORNER
DF-1	DRINKING FOUNTAIN	1 1/2" x 1 1/2"	2"	1 1/2"	1/2"	-	
DF-2	DRINKING FOUNTAIN	1 1/4" x 1 1/2"	2"	1 1/2"	1/2"	-	WHEELCHAIR
ES-1	EMERGENCY SHWR / EYE WASH	1 1/4" x 1 1/2"	2"	1 1/2"	1 1/4"		
BT-1	BATH TUB	2"	2"	1 1/2"	1/2"	1/2"	
BT-2	BATH TUB	2"	2"	1 1/2"	1/2"	1/2"	INSTITUTIONAL WITH ENAMELED BASE
CS-1	CLINICAL SERVICE SINK	INTEGRAL	4"	2"	1"	1/2"	
WSS-1	WALL SERVICE SINK	3"	3"	1 1/2"	1/2"	1/2"	STAINLESS STEEL
SH-3	SHOWER	2"	1 1/2"	1 1/2"	1/2"	1/2"	WITH SECURITY HEAD
L-7	LAVATORY	1 1/4" x 1 1/2"	2"	1 1/2"	1/2"	1/2"	SECURITY BRASS
L-8	LAVATORY	1 1/4" x 1 1/2"	2"	1 1/2"	1/2"	1/2"	SECURITY BRASS

FIXTURE UNIT CALCULATIONS

DESCRIPTION	TOTAL COUNT	F.U. TOTAL WASTE	F.U. TOTAL WATER	TOTAL F.U WASTE	TOTAL F.U WATER
WATER CLOSET	88	6	10	528	880
LAVATORY	100	1	2	100	200
SINK	129	3	4	387	516
SERVICE SINK	17	3	4	51	68
CLINICAL SERVICE SINK	9	6	10	54	90
DRINKING FOUNTAIN	7	1	2	7	14
URINAL	6	2	5	12	30
BATH TUB	3	2	4	6	12
THERAPY TUB	3	3	4	9	12
SHOWER	9	2	4	18	156
DENTAL OPERATORY	19	1	1	19	19
KITCHEN SINK	5	3	4	15	20
CAN WASH	1	3	4	3	4
DISPOSAL	3	3	4	9	12
HOSE BIBB	18	—	5	—	90
FLOOR SINK	32	3	—	96	—
FLOOR DRAIN	15	2	—	30	—
TOTAL FIXTURE UNITS				1326	2009

TOTAL F.U. = 2127 = 342 GPM

NOTE: QUANTITIES ARE LISTED FOR CITY REVIEWER AND ARE NOT INTENDED FOR CONTRACTOR'S TAKE OFF.

WATER CALCULATIONS

STREET PRESSURE 30 PSI (AS PER CIVIL REPORT)

HORIZONTAL PIPE LENGTH, TAP TO METER

HORIZONTAL PIPE LENGTH METER TO LAST FIXTURE 1000

VERTICAL RISE, TAP TO HIGHEST FIXTURE 26

TOTAL LENGTH PIPE 1026

HEIGHT 26 x 0.43 = 11 PSI LOSS (STATIC)

TOTAL FIXTURE UNITS = 2109 = GPM = 342

SIZE	DEVICE	PSI LOSS
6"	TAP	2
6"	METER	2
	STATIC	11
	FIXTURE	20
	TOTAL LOSS	35

STREET PRESS = 30

TOTAL LOSS = 35

DIFFERENCE = 15

PSI DIFFERENCE = 15 x 100 = 1.2 MAXIMUM PSI DROP

TOTAL LENGTH = 1026 ALLOWABLE PER 100 FT. PIPE

NOTE: THIS WATER DEMAND CALCULATION DOES NOT INCLUDE YARD SPRINKLER REQUIREMENTS.

DUPLEX WATER SOFTENER SCHEDULE

MARK	TYPE CONTROLS	MODEL	CAPACITY IN KLOGRAINS USING 6# SALT PER CU. FT.	CU. FT RESIN	FLOW RATE GPM	FACE PRESS	BACKWASH RATE G.P.M.	SALT PER REGENERATION	REMARKS
W.S.	AUTOMATIC	VARIO VR-300-3	300,000	10	60	3"	20	30-B	SEE NOTE 1

NOTE: 1 WITH METER - INSTALL SHUT-OFF VALVES ON INLET AND OUTLET AND FULL SIZED BY-PASS.

DENTAL AIR COMPRESSOR SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY	MOTOR HP	MOTOR VOLT	MOTOR Φ	MOTOR HZ	OPER. PRESS.	REMARKS
AC	AIR TECHNIQUES	AIR STAR #7	14.8 CFM @ 80 PSI	1 1/2 / 1 1/2	208	3	60	80#	80 GALLON RECEIVER, SEE NOTE #1. PROVIDE TWO YEAR WARRANTY
AD	(AIR DRYER) OHMEDA	PD 15	15 CFM	AMTS 29 AMPS 5	115	1	60	—	PROVIDE WITH OHMEDA FILTER BYPASS # AFS-20

NOTE: #1 PROVIDE WITH INLET FILTER MUFFLER, AUTO. START/STOP CONTROLS, ALTERNATOR PANEL WITH NEMA 1 CABINET TWO MAGNETIC STARTERS, TWO CONTROL TERMINAL BOARDS. TWO MANUAL RESET BUTTONS AND HANDS OFF AUTO. SWITCHES, STEEL BASE PLATE AND VIBRATION ISOLATORS

DENTAL VACUUM PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY	RPM	MOTOR HP	MOTOR VOLT	MOTOR Φ	MOTOR HZ	REMARKS
VP	DEN-TAL-EZ	DUPLEX CD-207	150 CFM @ 5" HG	3450	7 1/2 / 7 1/2	480	3	60	PROVIDE WITH MODEL CT-160G, 60 GALLON COLLECTION TANK, MUFFLERS, PKC-205 PARALLEL HOOK-UP KIT, FLOATING STAND (PROVIDE A MINIMUM OF 18 MONTHS WARRANTY FOR ALL TURBINE COMPONENTS)

WATER HEATER SCHEDULE

MARK	MANUF.	MODEL	STORAGE CAP GAL	FUEL	G.P.H INPUT	GAL/HR REC @ 80°F TR	VENT SIZE	PIPE SIZES CW	PIPE SIZES HW	PIPE SIZES OIL	REMARKS
W.H	PVI	1250-P 500A-TPD	500	#2 OIL	7.2	1250	8"	3"	3"	1/4"	SEE SPECIFICATIONS (12 REQUIRED)

LOWRY - SORENSEN - WILLCOXSON ENGINEERS INC.
PHOENIX, ARIZONA 85021
Job 8119.20 Des. RAN Dr. RM

Wyatt/Rhodes architects inc.
ARCHITECTURE
PLANNING
PHOENIX

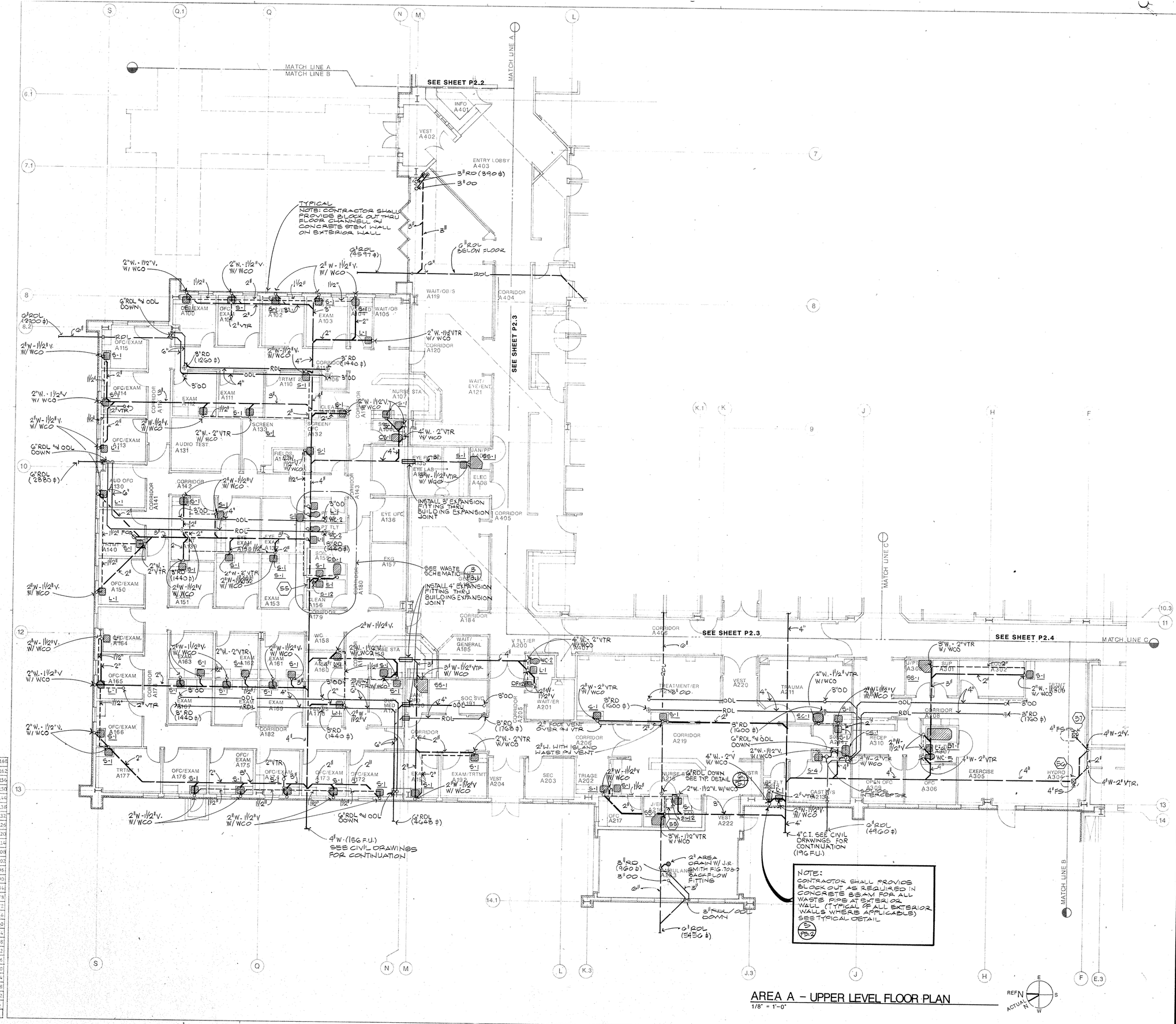
REV	DATE	ACTION	DESCRIPTION	BY	APVD

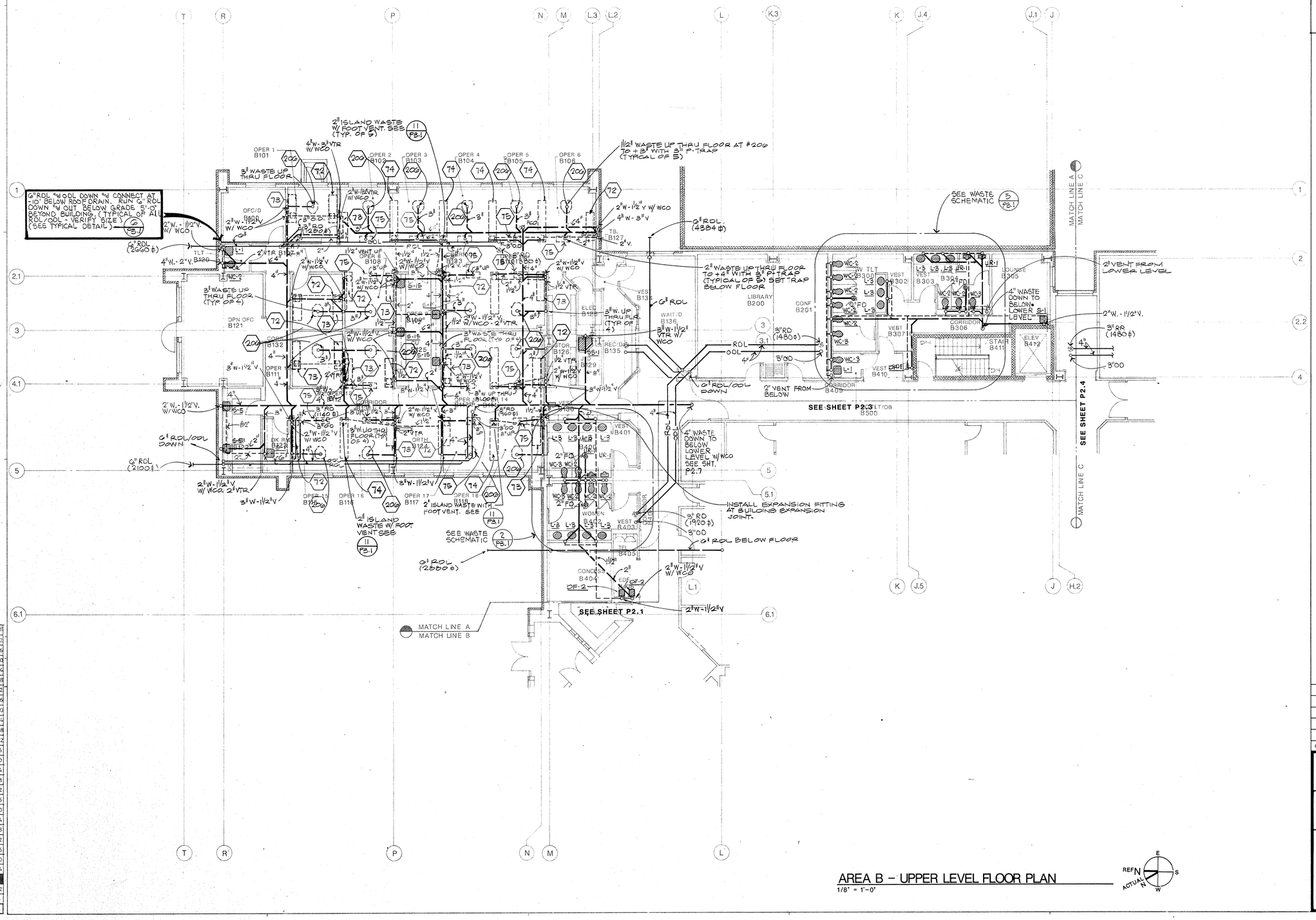
DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF ENGINEERING SERVICES
2201 SIXTH AVENUE SEATTLE, WASHINGTON 98121

PINE RIDGE
COMPREHENSIVE HEALTH CARE FACILITY
PINE RIDGE, SOUTH DAKOTA

DRAWING TITLE
SCHEDULES, SYMBOLS, CALCULATIONS

PROJECT NUMBER D10-387
SCALE AS NOTED
DATE 10-19-90
DRAWN RM CHKD RAN APVD ML
P0.1
SHT 196 OF 267


MATCH LINE A
MATCH LINE B
SEE SHEET P2.2
SEE SHEET P2.3
SEE SHEET P2.4
MATCH LINE C
INFO A401
VEST A402
ENTRY LOBBY A403
CORRIDOR A404
CORRIDOR A405
CORRIDOR A406
CORRIDOR A408
CORRIDOR A120
WAIT/OB'S A119
WAIT/EYE/ENT. A121
NURSE STA. A107
EYE OFC. A136
EYE EXAM A138
EYE EXAM A139
EYE LAB A135
ELEC A406
EXAM A153
CLEAN A156
CORRIDOR A179
CORRIDOR A184
WC A158
WAIT/GENERAL A165
V TLT/ER A200
WAIT/ER A201
TREATMENT/ER A211
VEST A220
CORRIDOR A219
CORRIDOR A206
TRIAGE A202
SEC A203
VEST A204
VEST A222
OFC A217
EXAM/TRTMT A190
CORRIDOR A182
CORRIDOR A164
CORRIDOR A171
CORRIDOR A141
CORRIDOR A142
CORRIDOR A143
CORRIDOR A180
CORRIDOR A185
CORRIDOR A225
CORRIDOR A119
CORRIDOR A106
CORRIDOR A115
CORRIDOR A116
CORRIDOR A117
CORRIDOR A118
CORRIDOR A130
CORRIDOR A131
CORRIDOR A132
CORRIDOR A133
CORRIDOR A134
CORRIDOR A135
CORRIDOR A136
CORRIDOR A137
CORRIDOR A138
CORRIDOR A139
CORRIDOR A140
CORRIDOR A141
CORRIDOR A142
CORRIDOR A143
CORRIDOR A144
CORRIDOR A145
CORRIDOR A146
CORRIDOR A147
CORRIDOR A148
CORRIDOR A149
CORRIDOR



AREA B – UPPER LEVEL FLOOR PLAN

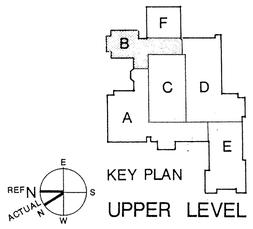
1/8" = 1'-0"

163	164	165	166	167	168	
157	158	159	160	161	162	
151	152	153	154	155	156	
145	146	147	148	149	150	
139	140	141	142	143	144	
133	134	135	136	137	138	
127	128	129	130	131	132	
121	122	123	124	125	126	
115	116	117	118	119	120	
109	110	111	112	113	114	
103	104	105	106	107	108	
97	98	99	100	101	102	
91	92	93	94	95	96	
85	86	87	88	89	90	
79	80	81		83	84	
73	74	75	76	77	78	
67	68	69	70	71	72	
61	62	63	64	65	66	
55	56	57	58	59	60	
49	50	51	52	53	54	
43	44	45	46	47	48	
37	38	39	40	41	42	
31	32	33	34	35	36	
25	26	27	28	29	30	
	20	21	22	23	24	
13	14	15	16	17		
7	8	9	10	11	12	
1	2	3	4	5	6	

Overlays

LOWRY · SORENSEN · WILLCOXSON ENGINEERS INC.
PHOENIX, ARIZONA 85021
Job 87159.20 Des RAN Dr GR

Wyatt/Rhodes architects inc.
ARCHITECTURE PLANNING
PHOENIX



KEY PLAN
UPPER LEVEL

REV	DATE	ACTION	DESCRIPTION	BY	APVD

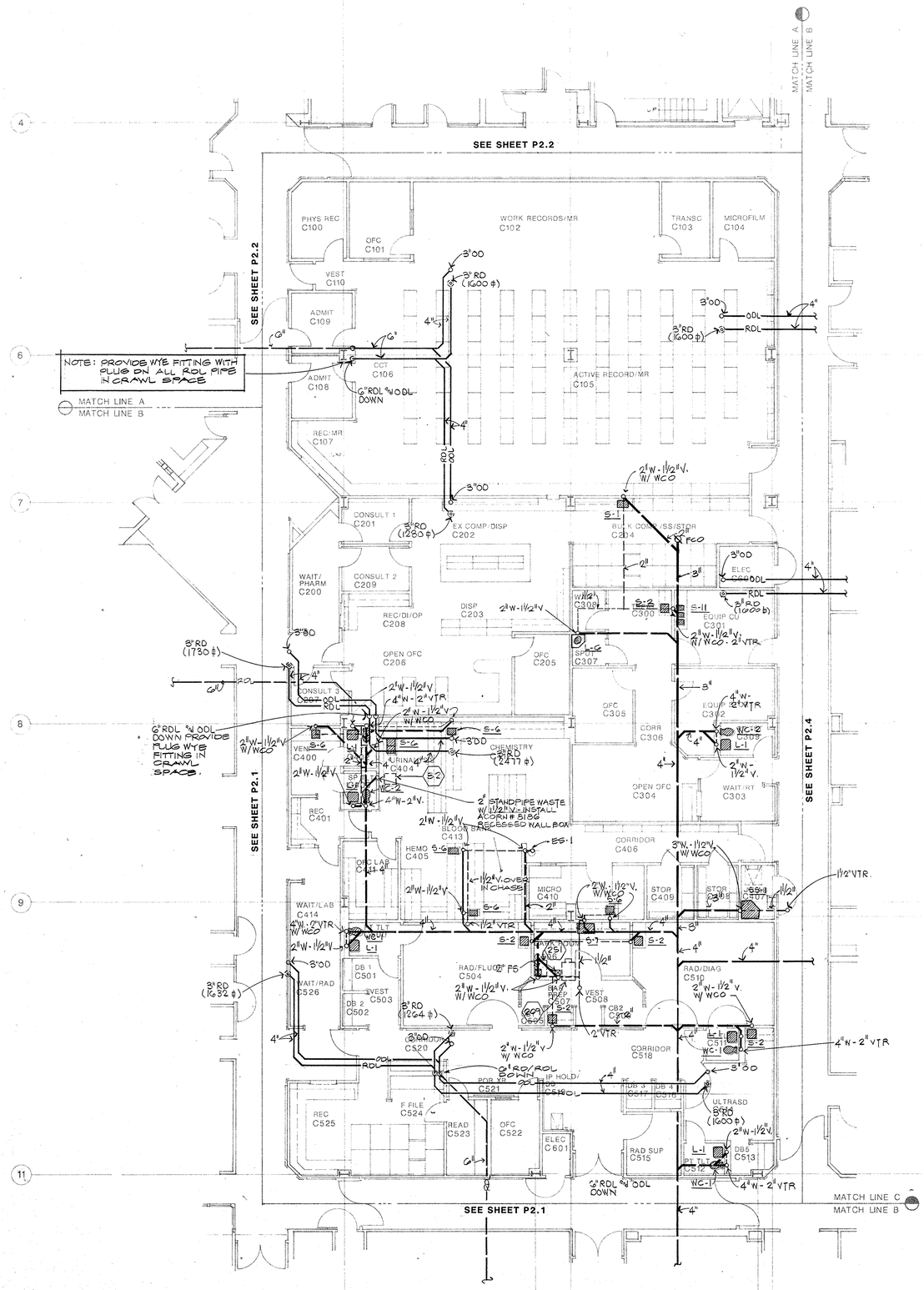
DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF ENGINEERING SERVICES
2201 SIXTH AVENUE SEATTLE, WASHINGTON 98121

PINE RIDGE
COMPREHENSIVE HEALTH CARE FACILITY
PINE RIDGE, SOUTH DAKOTA

DRAWING TITLE
PLUMBING WASTE & ROOF DRAIN FLOOR PLAN – AREA B

PROJECT NUMBER D10 - 387
SCALE AS NOTED
DATE 10-19-90
DRAWN GR CHKD RAN APVD ML
P2.2
SHT 198 OF 267

AREA B



AREA C – UPPER LEVEL FLOOR PLAN

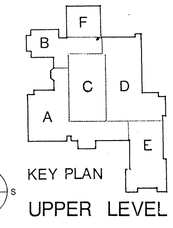
1/8" = 1'-0"

163	164	165	166	167	168	
157	158	159	160	161	162	
151	152	153	154	155	156	
145	146	147	148	149	150	
139	140	141	142	143	144	
133	134	135	136	137	138	
127	128	129	130	131	132	
121	122	123	124	125	126	
115	116	117	118	119	120	
109	110	111	112	113	114	
103	104	105	106	107	108	
97	98	99	100	101	102	
91	92	93	94	95	96	
85	86	87	88	89	90	
79	80	81	82		84	
73	74	75	76	77	78	
67	68	69	70	71	72	
61	62	63	64	65	66	
55	56	57	58	59	60	
49	50	51	52	53	54	
43	44	45	46	47	48	
37	38	39	40	41	42	
31	32	33	34	35	36	
25	26	27	28	29	30	
19	20			23	24	
13	14	15	16	17	18	
7	8	9	10	11	12	
1	2	3	4	5	6	

Overlays

LOWRY - SORENSEN - WILLCOXSON ENGINEERS INC.
PHOENIX, ARIZONA 85021
JOB 87159.20 DR RAN BY GR

Wyatt/Rhodes architects inc.
ARCHITECTURE
PLANNING
PHOENIX



KEY PLAN
UPPER LEVEL

REV	DATE	ACTION	DESCRIPTION	BY	APVD

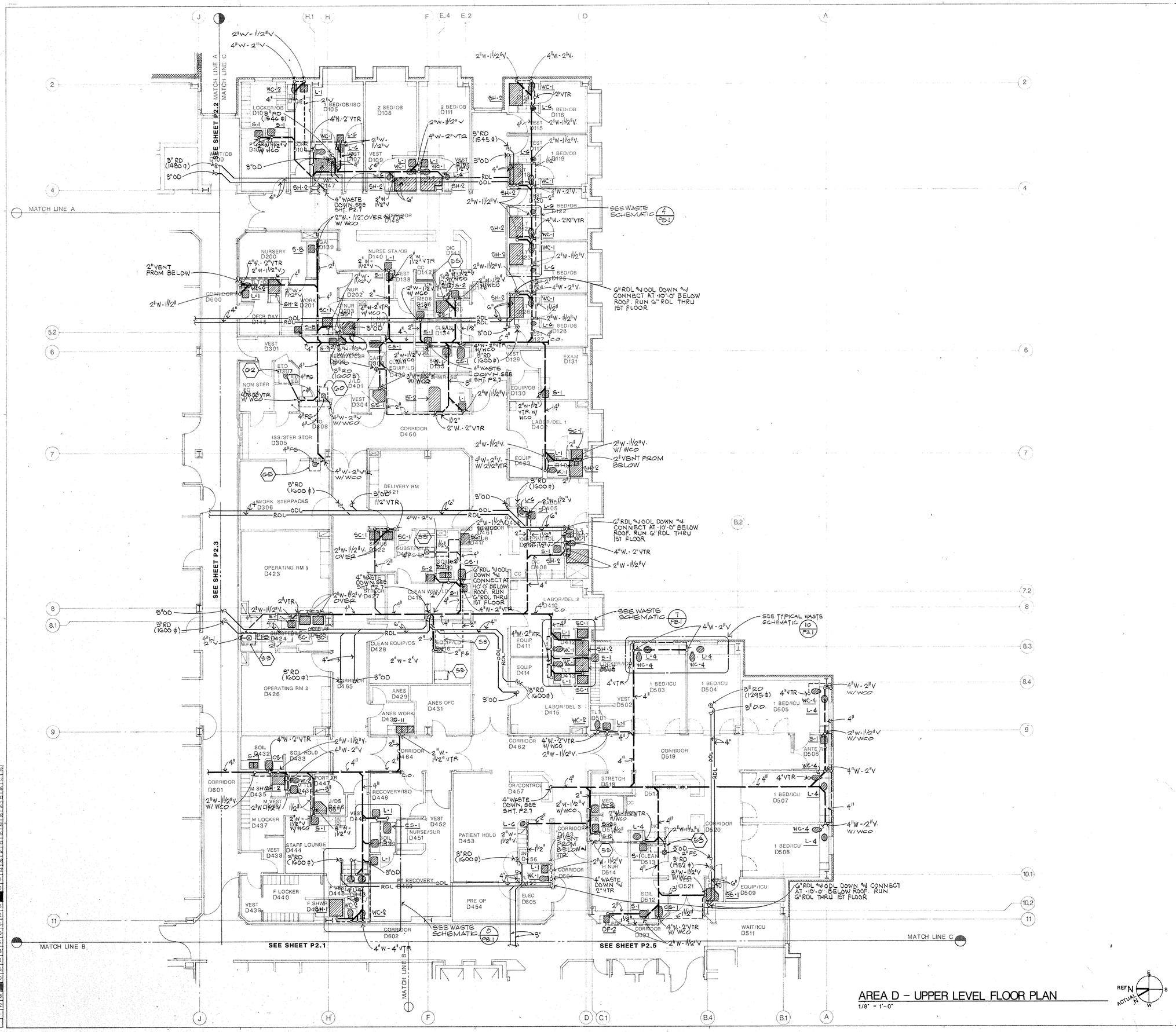
DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF ENGINEERING SERVICES
2201 SIXTH AVENUE SEATTLE, WASHINGTON 98121

PINE RIDGE
COMPREHENSIVE HEALTH CARE FACILITY
PINE RIDGE, SOUTH DAKOTA

DRAWING TITLE
PLUMBING WASTE & ROOF DRAIN FLOOR PLAN – AREA C

PROJECT NUMBER D10 - 387
SCALE AS NOTED
DATE 10-19-90
DRAWN GR CHKD RAN APVD ML
P2.3
SHT 199 OF 267

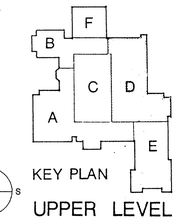
AREA C



AREA D – UPPER LEVEL FLOOR PLAN

1/8" = 1'-0"

LOWRY - SORENSEN - WILLCOXSON ENGINEERS INC. PHOENIX, ARIZONA 85021		Wyatt/Rhodes architects inc. ARCHITECTURE PLANNING PHOENIX
Job 8715 9.20 Dr RAN Dr GR		



KEY PLAN

UPPER LEVEL

REV.	DATE	ACTION	DESCRIPTION	BY	APVD

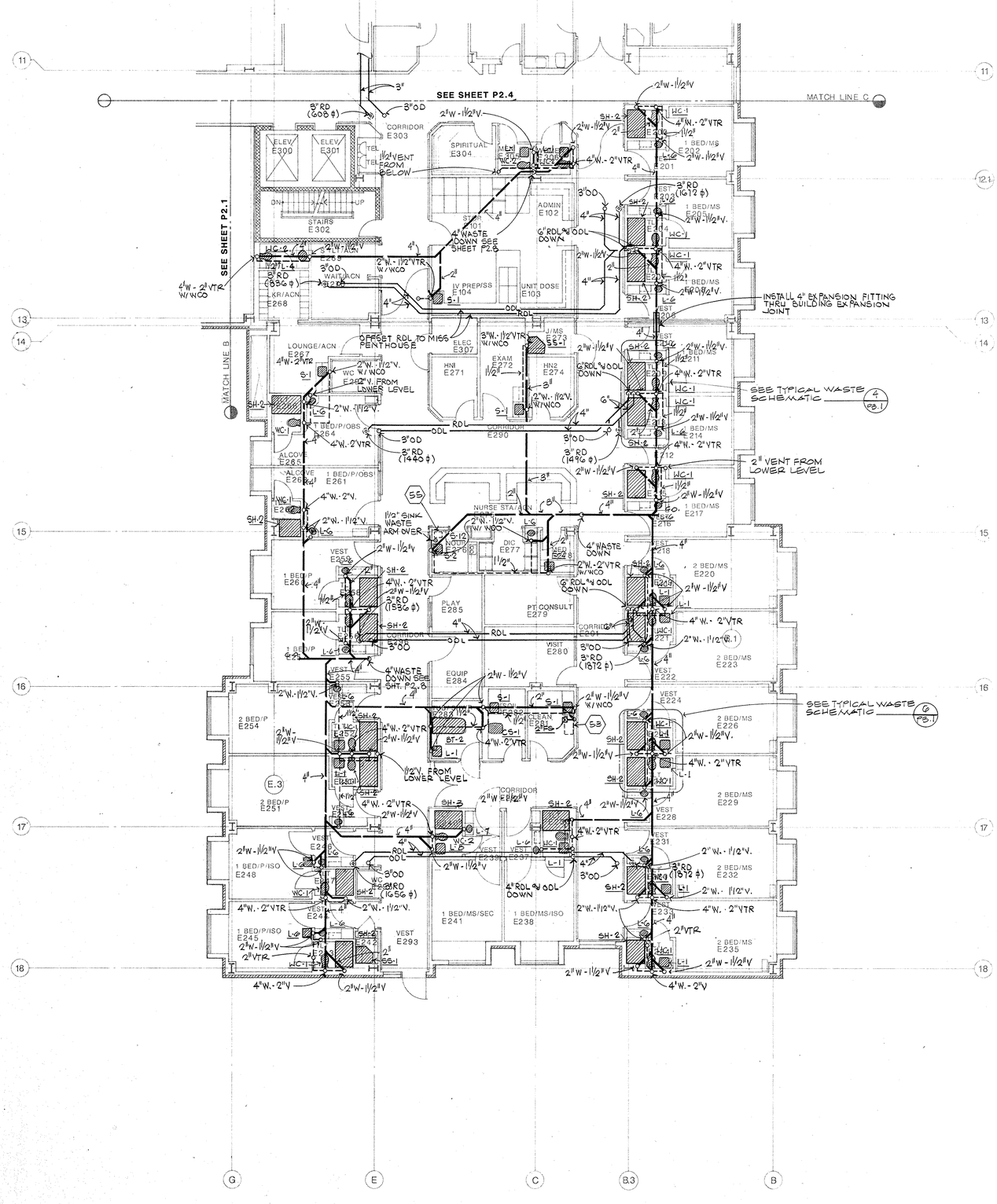
DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF ENGINEERING SERVICES
2201 SIXTH AVENUE SEATTLE, WASHINGTON 98121

PINE RIDGE
COMPREHENSIVE HEALTH CARE FACILITY
PINE RIDGE, SOUTH DAKOTA

DRAWING TITLE
PLUMBING WASTE & ROOF DRAIN FLOOR PLAN – AREA D

PROJECT NUMBER	SCALE	
D10-387	1/8"=1'-0"	**P2.4**
DRAWN GR / CHKD RAN	DATE 10-19-90 / APVD ML	SHT 200 OF 267

AREA D



AREA E – UPPER LEVEL FLOOR PLAN

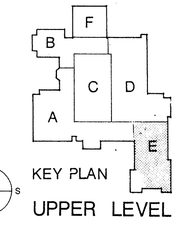
1/8" = 1'-0"

163	164	165	166	167	168	
157	158	159	160	161	162	
151	152	153	154	155	156	
145	146	147	148	149	150	
139	140	141	142	143	144	
133	134	135	136	137	138	
127	128	129	130	131	132	
121	122	123	124	125	126	
115	116	117	118	119	120	
109	110	111	112	113	114	
103	104	105	106	107	108	
97	98	99	100	101	102	
91	92	93	94	95	96	
	86	87	88	89	90	
79	80	81	82	83	84	
73	74	75	76	77	78	
67	68	69	70	71	72	
61	62	63	64	65	66	
55	56	57	58	59	60	
49	50	51	52	53	54	
43	44	45	46	47	48	
37	38	39	40	41	42	
31	32	33	34	35	36	
25	26			29	30	
19	20	21	22	23	24	
13	14	15	16	17	18	
7	8	9	10	11	12	
1	2	3	4	5	6	

Overlays

LOWRY - SORENSEN - WILLCOXSON ENGINEERS INC.
PHOENIX, ARIZONA 85021
JOB 87159.20 DR RAN CK GR

Wyatt/Rhodes architects inc.
ARCHITECTURE
PLANNING
PHOENIX



KEY PLAN
UPPER LEVEL

REV	DATE	ACTION	DESCRIPTION	BY	APVD

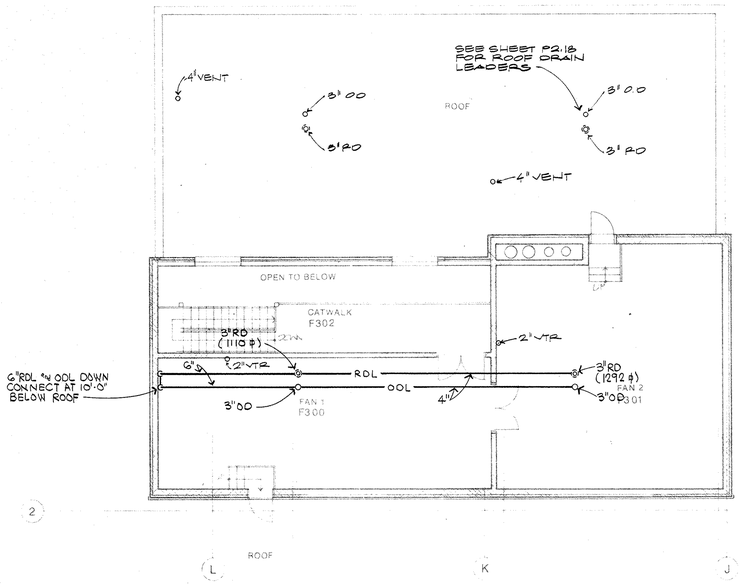
DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF ENGINEERING SERVICES
2201 SIXTH AVENUE SEATTLE, WASHINGTON 98121

PINE RIDGE
COMPREHENSIVE HEALTH CARE FACILITY
PINE RIDGE, SOUTH DAKOTA

DRAWING TITLE
PLUMBING WASTE & ROOF DRAIN FLOOR PLAN – AREA E

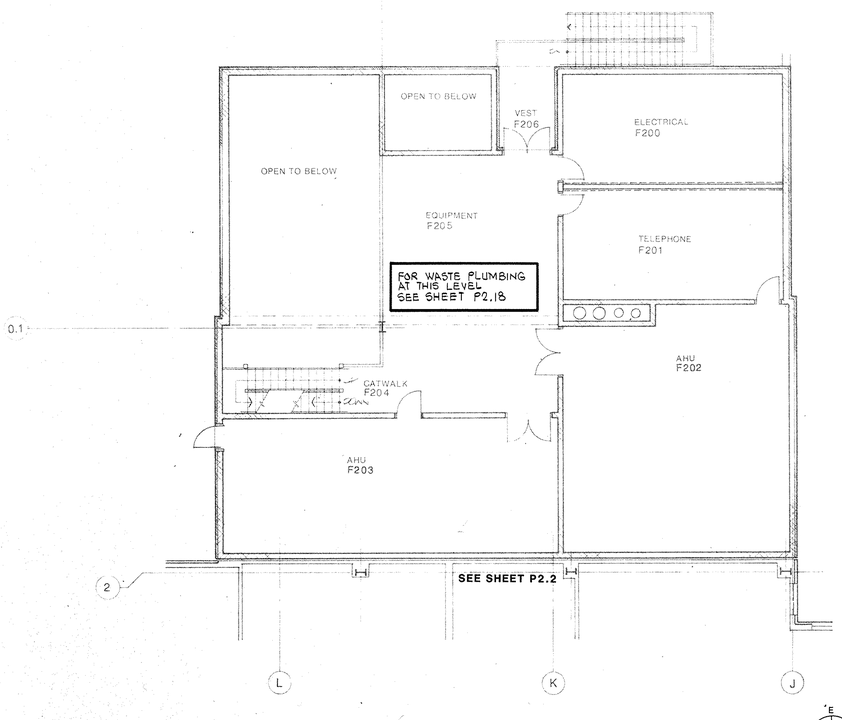
PROJECT NUMBER D10 - 387
SCALE 1/8"=1'-0"
DATE 12/19/90
DRAWN GR
CHKD RAN
APVD ML
P2.5
SHT 201 OF 267

AREA E

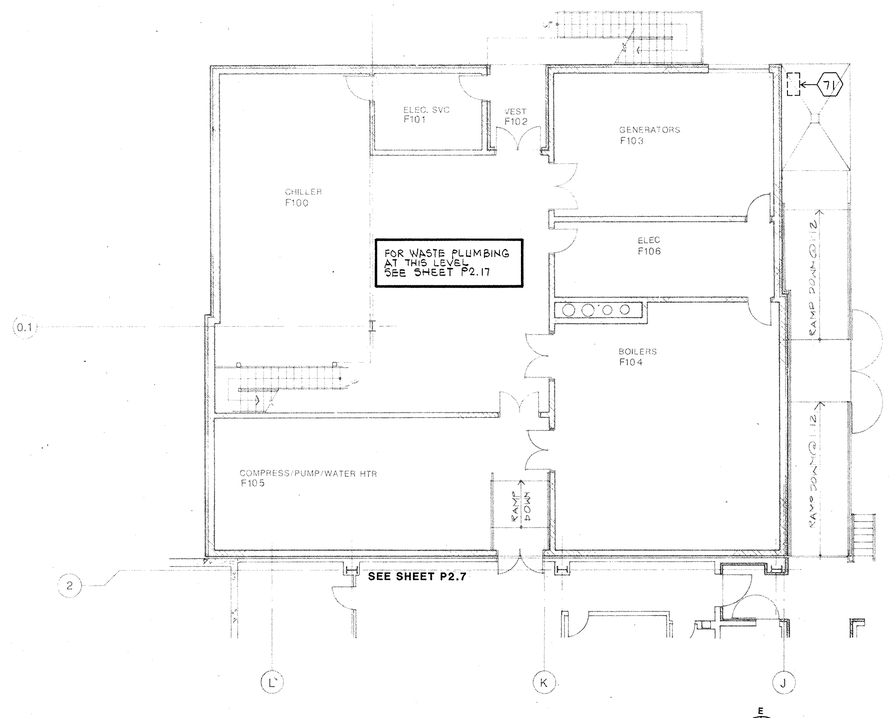


AREA F – CENTRAL PLANT
SECOND MEZZANINE LEVEL FLOOR PLAN
1/8" = 1'-0"

K.2



AREA F – CENTRAL PLANT
FIRST MEZZANINE LEVEL FLOOR PLAN
1/8" = 1'-0"



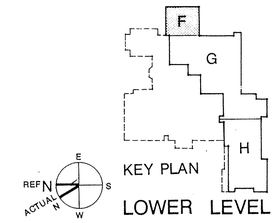
AREA F – CENTRAL PLANT
LOWER LEVEL FLOOR PLAN
1/8" = 1'-0"

K.2

Overlays						
163	164	165	166	167	168	
157	158	159	160	161	162	
151	152	153	154	155	156	
145	146	147	148	149	150	
139	140	141	142	143	144	
133	134	135	136	137	138	
127	128	129	130	131	132	
121	122	123	124	125	126	
115	116	117	118	119	120	
109	110	111	112	113	114	
103	104	105	106	107	108	
97	98	99	100	101	102	
91	92	93	94	95	96	
85		87	88	89	90	
79	80	81	82	83	84	
73	74	75	76	77	78	
67	68	69	70	71	72	
61	62	63	64	65	66	
55	56	57	58	59	60	
49	50	51	52	53	54	
43	44	45	46	47	48	
37	38	39	40	41	42	
	32	33	34	35	36	
25	26	27	28	29		
19	20	21	22	23	24	
13	14	15	16	17	18	
7	8	9	10	11	12	
1	2	3	4	5	6	

LOWRY - SORENSEN - WILLCOXSON ENGINEERS INC.
PHOENIX, ARIZONA 85021
Job 8715 9.20 | Des RAN | Dr GR

Wyatt/Rhodes architects inc.
ARCHITECTURE PLANNING
PHOENIX



KEY PLAN
LOWER LEVEL

REV	DATE	ACTION	DESCRIPTION	BY	APVD

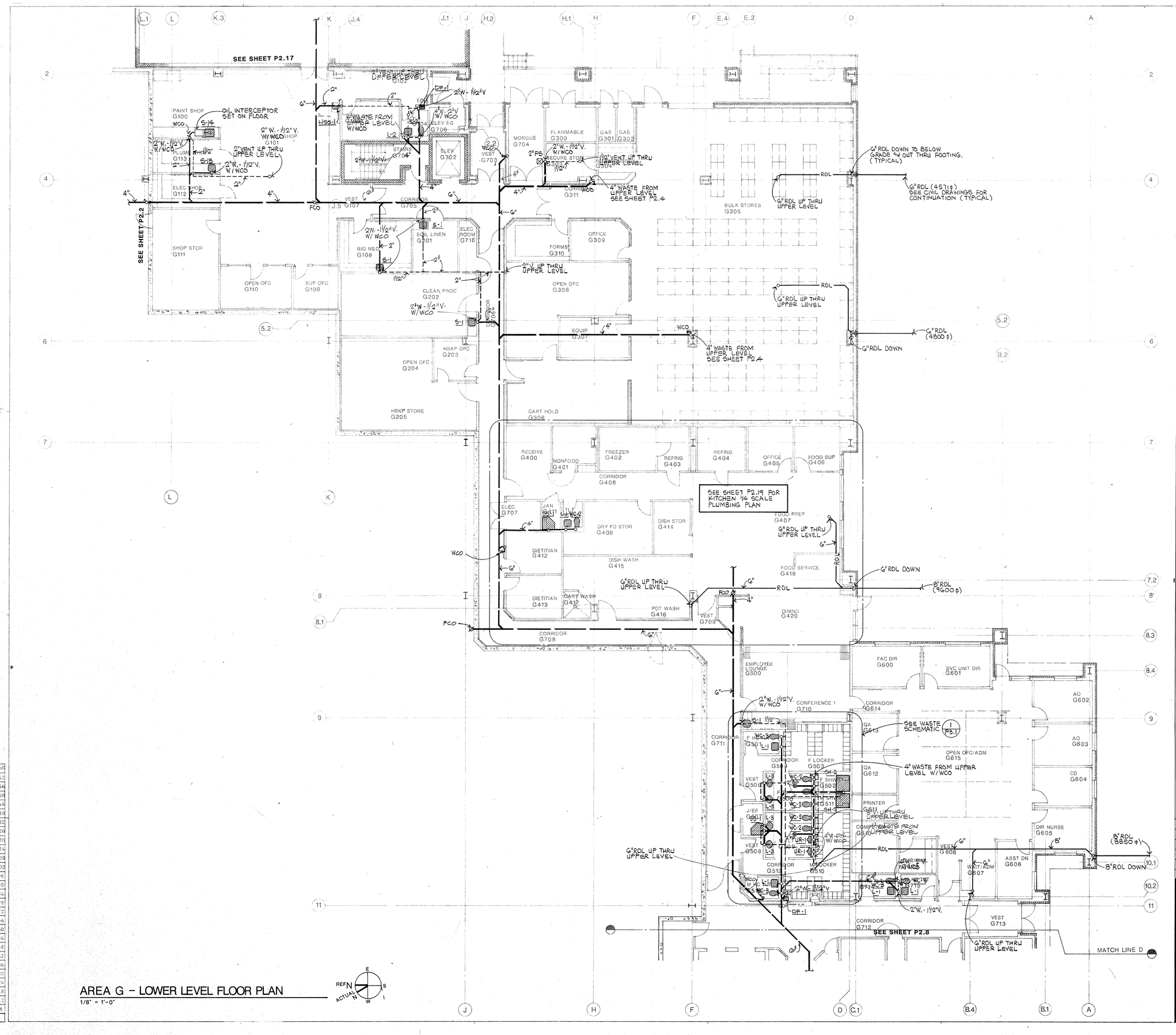
DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF ENGINEERING SERVICES
2201 SIXTH AVENUE SEATTLE, WASHINGTON 98121

PINE RIDGE
COMPREHENSIVE HEALTH CARE FACILITY
PINE RIDGE, SOUTH DAKOTA

DRAWING TITLE
PLUMBING WASTE & ROOF DRAIN FLOOR PLAN – AREA F

PROJECT NUMBER D10 - 387 | SCALE AS NOTED | DATE 10-19-90 | **P2.6**
DRAWN GR/RM | CHKD RAH | APVD ML | SHT 202 OF 267

AREA F



AREA G – LOWER LEVEL FLOOR PLAN

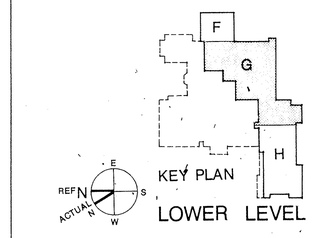
1/8" = 1'-0"

163	164	165	166	167	168		
157	158	159	160	161	162		
151	152	153	154	155	156		
142	146	147	148	149	150		
139	140	141	142	143	144		
133	134	135	136	137	138		
127	128	129	130	131	132		
121	122	123	124	125	126		
115	116	117	118	119	120		
109	110	111	112	113	114		
103	104	105	106	107	108		
97	98	99	100	101	102		
91	92	93	94	95	96		
85	86		88	89	90		
79	80	81	82	83	84		
73	74	75	76	77	78		
67	68	69	70	71	72		
61	62	63	64	65	66		
55	56	57	58	59	60		
49	50	51	52	53	54		
43	44	45	46	47	48		
37	38	39	40	41	42		
31	32			35	36		
25	26	27	28	29	30		
19	20	21	22	23	24		
13	14	15	16	17	18		
7	8	9	10	11	12		
1	2	3	4	5	6		
Overlays							

LOWRY - SORENSEN - WILLCOXSON ENGINEERS INC.
PHOENIX, ARIZONA 85021

Job	Des	Dr
87159.20	RAN	GR

Wyatt/Rhodes architects inc.
ARCHITECTURE
PLANNING
PHOENIX



REV	DATE	ACTION	DESCRIPTION	BY	APVD

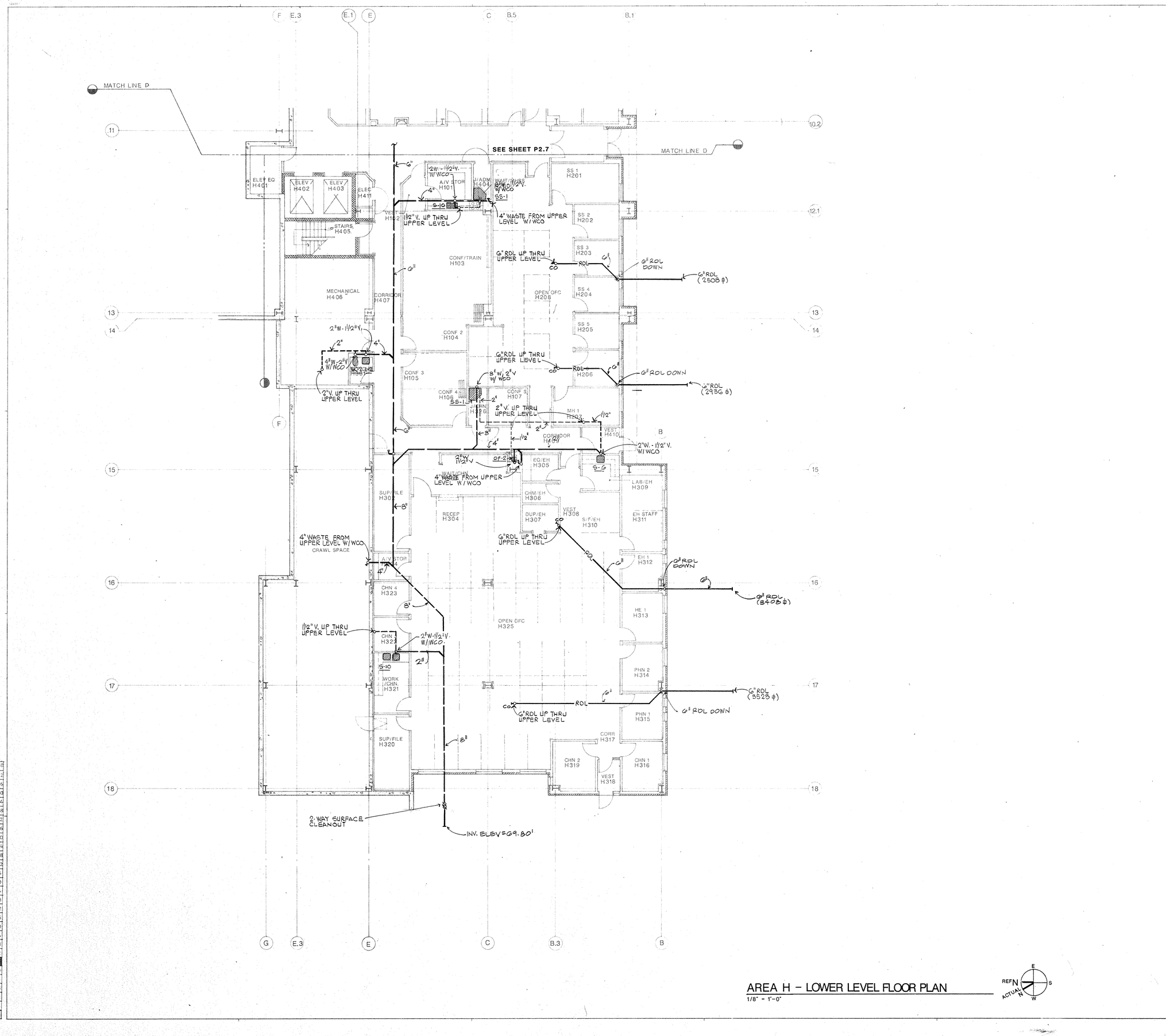
DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF ENGINEERING SERVICES
2201 SIXTH AVENUE SEATTLE, WASHINGTON 98121

PINE RIDGE
COMPREHENSIVE HEALTH CARE FACILITY
PINE RIDGE, SOUTH DAKOTA

DRAWING TITLE
PLUMBING WASTE & ROOF DRAIN FLOOR PLAN – AREA G

PROJECT NUMBER	SCALE	
D10 - 387	AS NOTED	P2.7
	DATE 10-19-90	
DRAWN GR/RM	CHKD RAN	APVD ML
		SHT 203 OF 207

AREA G



AREA H – LOWER LEVEL FLOOR PLAN

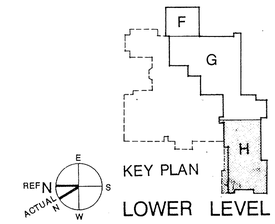
1/8" = 1'-0"

163	164	165	166	167	168	
157	158	159	160	161	162	
151	152	153	154	155	156	
145	146	147	148	149	150	
139	140	141	142	143	144	
133	134	135	136	137	138	
127	128	129	130	131	132	
121	122	123	124	125	126	
115	116	117	118	119	120	
109	110	111	112	113	114	
103	104	105	106	107	108	
97	98	99	100	101	102	
91	92	93	94	95	96	
85	86	87		89	90	
79	80	81	82	83	84	
73	74	75	76	77	78	
67	68	69	70	71	72	
61	62	63	64	65	66	
55	56	57	58	59	60	
49	50	51	52	53	54	
43	44	45	46	47	48	
	38	39	40	41	42	
31	32	33	34	35		
25	26	27	28	29	30	
19	20	21	22	23	24	
13	14	15	16	17	18	
7	8	9	10	11	12	
1	2	3	4	5	6	

Overlays

LOWRY · SORENSEN · WILLCOXSON ENGINEERS INC
PHOENIX, ARIZONA 85021
Job 87159.20 Des RAN Dr GR

Wyatt/Rhodes architects inc.
ARCHITECTURE PLANNING
PHOENIX



KEY PLAN
LOWER LEVEL

REV	DATE	ACTION	DESCRIPTION	BY	APVD

DEPARTMENT OF HEALTH AND HUMAN SERVICES
OFFICE OF ENGINEERING SERVICES
2201 SIXTH AVENUE SEATTLE, WASHINGTON 98121

PINE RIDGE
COMPREHENSIVE HEALTH CARE FACILITY
PINE RIDGE, SOUTH DAKOTA

DRAWING TITLE
PLUMBING WASTE & ROOF DRAIN FLOOR PLAN – AREA H

PROJECT NUMBER D10-387
SCALE 1/8"=1'-0"
DATE 10-19-90
DRAWN GR
CHKD RAN
APVD ML
P2.8
SHT 204 OF 267

AREA H