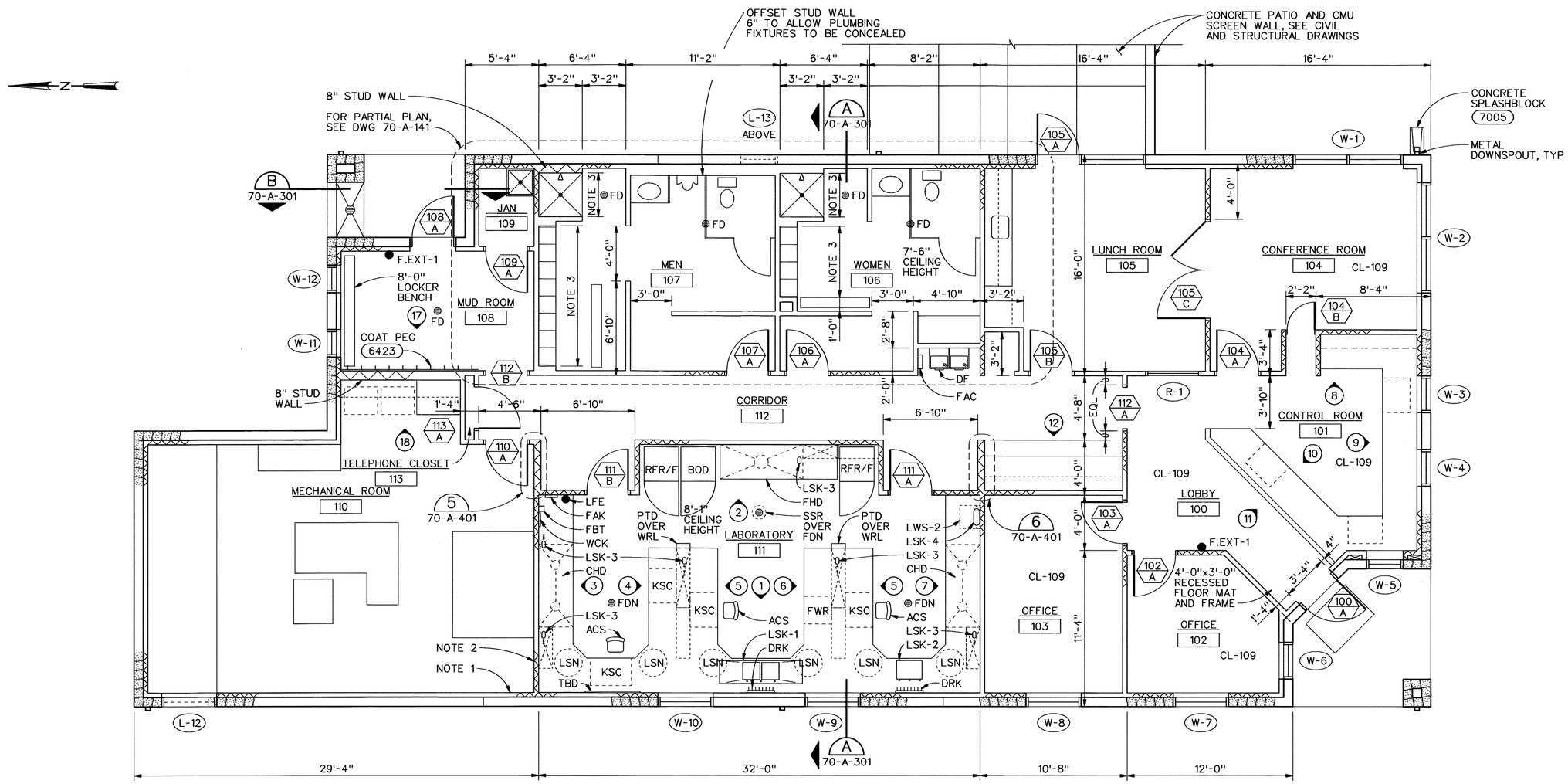


NOTES:

1. 5/8" GWB OR WRB, OVER VAPOR RETARDER, AS SCHEDULED, ON 3 5/8" METAL STUDS @ 16" OC W/ R-11 BATT INSULATION, TYP AT EXTERIOR WALLS.
2. 5/8" GWB OR WRB, AS SCHEDULED, ON 3 5/8" (UNLESS NOTED OTHERWISE) METAL STUDS @ 16" OC, TYP AT INTERIOR WALLS.

   PROVIDE R-11 BATT INSULATION (TYPE I) AT WALL BETWEEN MECHANICAL ROOM AND LABORATORY, AND SOUND ATTENUATION BLANKETS AT WALLS SEPARATING MENS AND WOMENS RESTROOMS FROM EACH OTHER AND SURROUNDING SPACES.
3. VERIFY ROUGH OPENING WITH LOCKER AND HANDICAPPED SHOWER MANUFACTURERS.
4. FOR LABORATORY ELEVATIONS, SEE DWG NO. 70-A-302. FOR OTHER INTERIOR ELEVATIONS, SEE DWG NO. 70-A-303.

FLOOR PLAN

1/4"=1'-0"

REFERENCE CL-109 FOR ADDED CARPET IN ROOMS 100, 101, 102, 103, AND 104

8'-0" CEILING HEIGHT UNLESS NOTED.

RECORD DRAWINGS

Revisions Drawn By LMB **Date** MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

CODE NOTES (1997 UBC)

OCCUPANCY:	B
CONSTRUCTION TYPE:	V-N (SPRINKLERED)
ALLOWABLE FLOOR AREA:	16,000 SQ FT
ACTUAL FLOOR AREA:	3,328 SQ FT
ALLOWABLE HEIGHT:	40'-0"
ACTUAL HEIGHT:	14'-7"
ALLOWABLE NUMBER OF STORIES:	2
ACTUAL NUMBER OF STORIES:	1
NUMBER OF OCCUPANTS (CALCULATED):	19
ACTUAL NUMBER OF OCCUPANTS:	12
LOCATION ON PROPERTY:	
DISTANCE TO PROPERTY LINES:	> 20'-0"
DISTANCE TO OTHER BUILDINGS:	> 40'-0"

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN EA HADFIELD, JE CAVE						VERIFY SCALE
DR JA HOSTETLER						BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
CHK M SCHWEIZER		3/02	RECORD DRAWING	LMB	WBC/JBL	
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	

CH2MHILL

CITY OF TROUTDALE, OREGON

TROUTDALE WATER POLLUTION CONTROL FACILITY

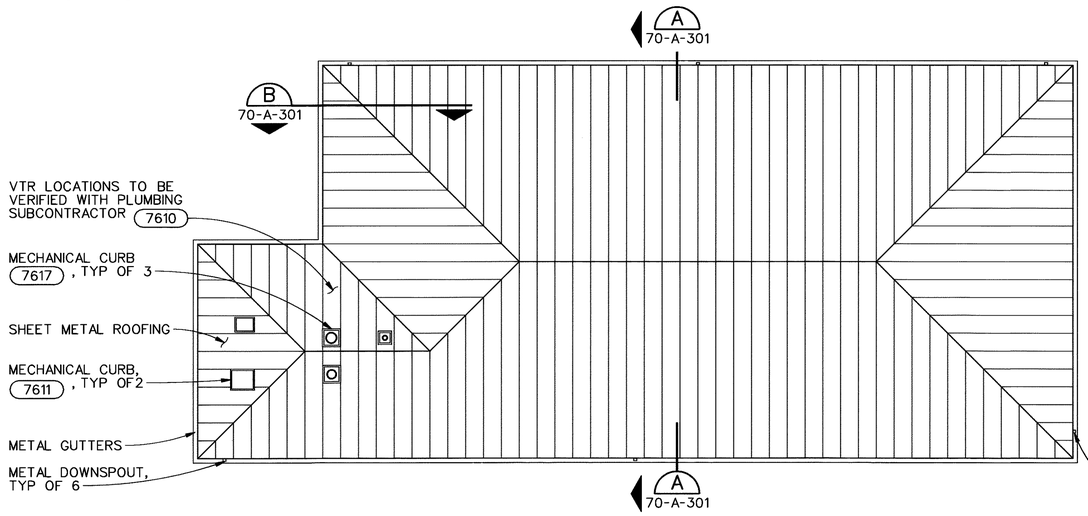
ADMINISTRATION BUILDING

ARCHITECTURAL FLOOR PLAN

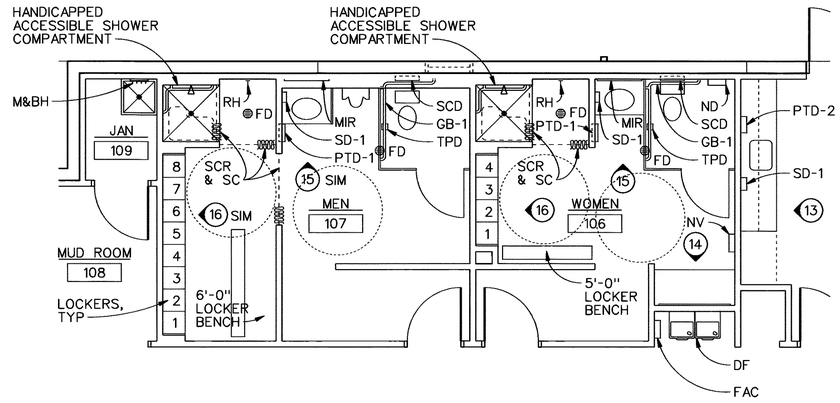
SHEET	114
DWG	70-A-131
DATE	DEC 1999
PROJ	151252

FILENAME: tr70a131.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 10:31:09

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

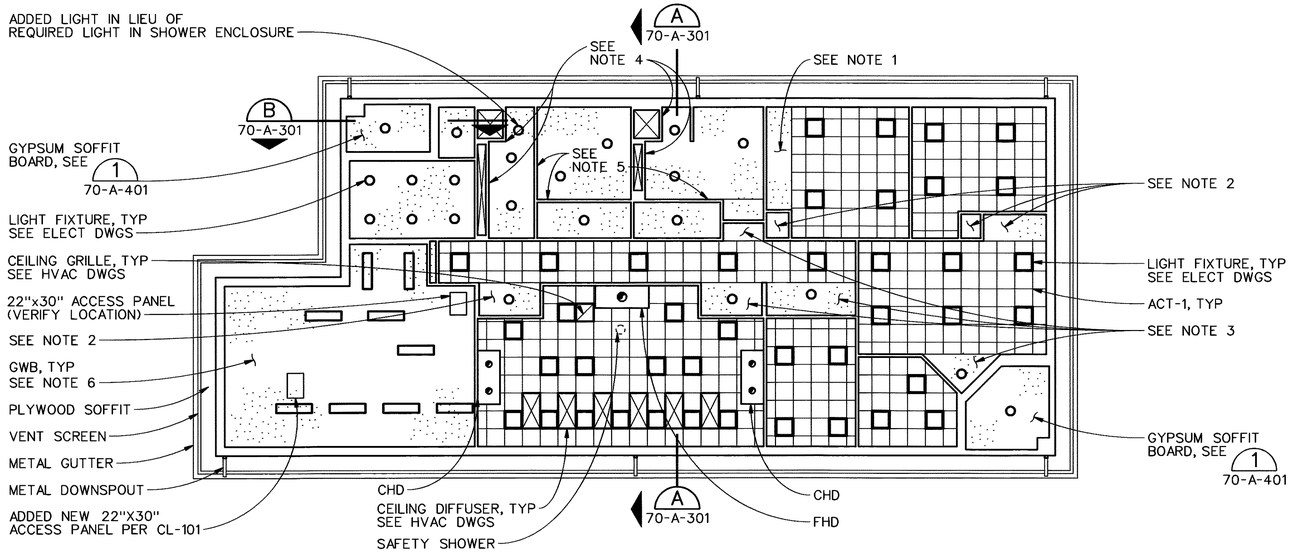


ROOF PLAN
1/8"=1'-0"



NOTE:
FOR STANDARD FIXTURE MOUNTING HEIGHTS, SEE 4 70-A-401 .

PARTIAL PLAN
1/4"=1'-0"



REFLECTED CEILING PLAN
1/8"=1'-0"

NOTES:
1. SOFFIT AND HEADER @ 7'-0" AFF. FRAME WITH 3 5/8" METAL STUDS @ 16" OC.
2. SOFFIT AND HEADER @ 7'-2" AFF. FRAME WITH 3 5/8" METAL STUDS @ 16" OC.
3. SOFFIT AND HEADER @ 7'-4" AFF. FRAME WITH 3 5/8" METAL STUDS @ 16" OC.
4. HEADER AT HEIGHT TO SUIT SHOWER COMPARTMENT OR LOCKER ROUGH OPENING.
5. HEADER @ 7'-0" AFF.
6. FRAMING VARIES:
   (A) PREFABRICATED WOOD TRUSSES @ 24" OC @ MECHANICAL ROOM 110 .
   (B) 6" METAL STUDS @ 16" OC, ALL OTHER ROOMS.
7. FOR CEILING HEIGHTS, SEE INTERIOR FINISH SCHEDULE.

RECORD DRAWINGS
Revisions Drawn By LMB Date MARCH, 2002
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, FROM INFORMATION FURNISHED BY OTHERS. CH2M HILL DOES NOT WARRANT THAT THE INFORMATION SHOWN IS CORRECT OR COMPLETE. IN DETAIL, THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY CONSTRUCTION OR INSTALLATION WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL
REUSE OF DOCUMENTS:

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN JE CAVE						VERIFY SCALE
DR JA HOSTETLER						BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
CHK M SCHWEIZER					WBC/ JBL	
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	
	3/02		RECORD DRAWING	LMB		

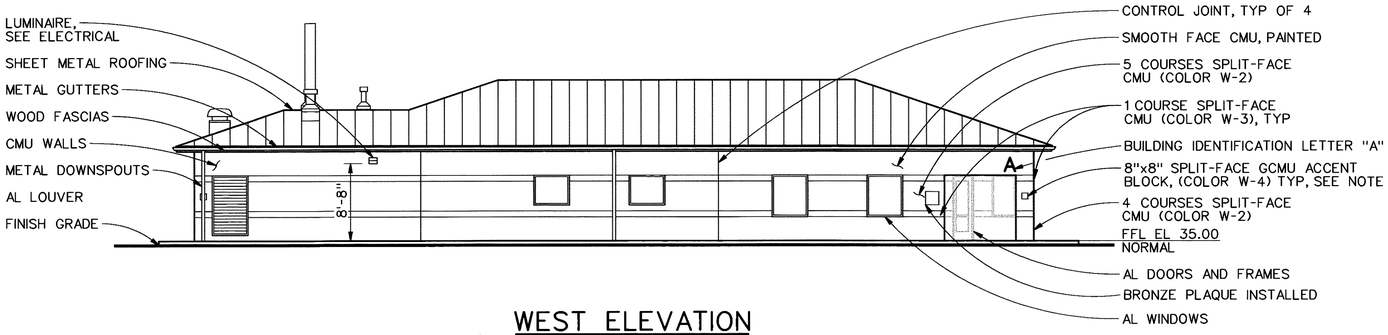
CH2MHILL

CITY OF TROUTDALE, OREGON
TROUTDALE WATER POLLUTION CONTROL FACILITY

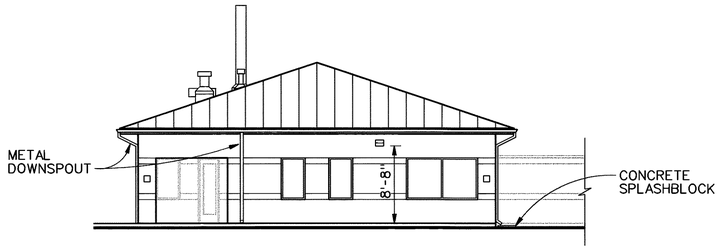
ADMINISTRATION BUILDING
ARCHITECTURAL
ROOF PLAN, REFLECTED CEILING PLAN AND PARTIAL PLAN

SHEET	115
DWG	70-A-141
DATE	DEC 1999
PROJ	151252

FILENAME: tr70a141.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 11:14:32

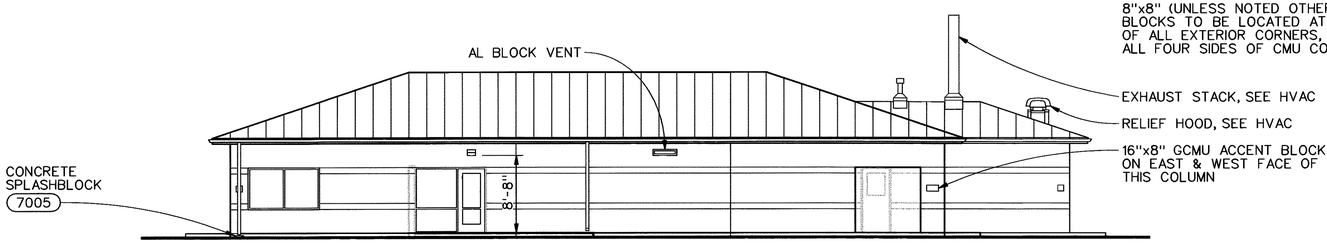


WEST ELEVATION
1/8"=1'-0"

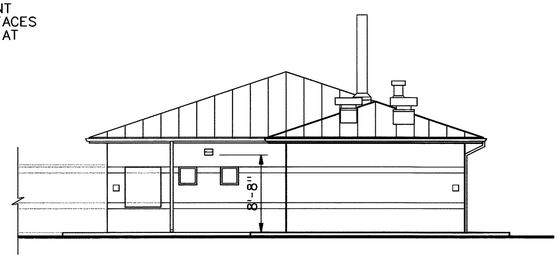


SOUTH ELEVATION
1/8"=1'-0"

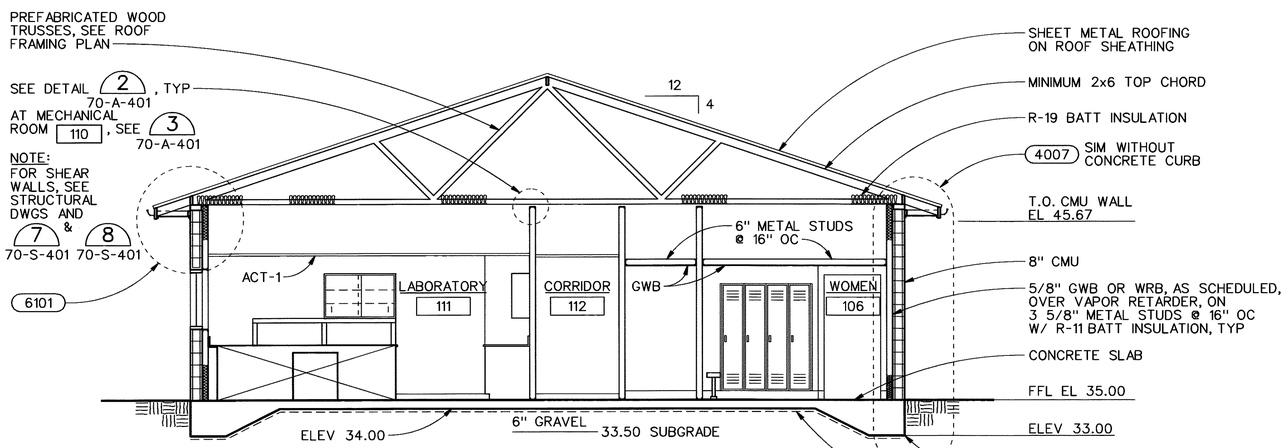
NOTE:
8"x8" (UNLESS NOTED OTHERWISE) GCMU ACCENT BLOCKS TO BE LOCATED AT ADJACENT WALL FACES OF ALL EXTERIOR CORNERS, AS INDICATED, AND AT ALL FOUR SIDES OF CMU COLUMNS.



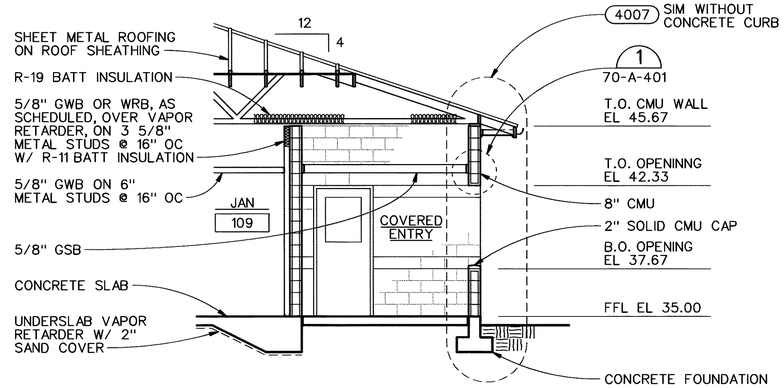
EAST ELEVATION
1/8"=1'-0"



NORTH ELEVATION
1/8"=1'-0"



SECTION A
1/4"=1'-0" 70-A-131 70-A-141



SECTION B
1/4"=1'-0" 70-A-131 70-A-141

RECORD DRAWINGS

Revisions Drawn By LMB Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN JE CAVE					VERIFY SCALE
DR JA HOSTETLER					BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
CHK M SCHWEIZER		3/02	RECORD DRAWING	LMB	WBC/ JBL
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD

CH2MHILL

CITY OF TROUTDALE, OREGON

TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING
ARCHITECTURAL
BUILDING ELEVATIONS AND SECTIONS

SHEET	116
DWG	70-A-301
DATE	DEC 1999
PROJ	151252

FILENAME: tr70a301.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 11:42:06

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

LABORATORY ABBREVIATIONS

ITEM	DESCRIPTION
ACS	ADJUSTABLE CHAIR/STOOL, COUNTER HEIGHT
BCV	BASE CABINET VENT
BOD	BOD INCUBATOR
CCL	COMPUTER CABLE
CHD	CANOPY HOOD
DRK	DRAIN RACK
EPL	ELECTRICAL PANEL
EWH	EYE/BODY WASH (HAND HELD)
F/A	FLAMMABLES OR ACID STORAGE CABINET
F-AIR	FUME HOOD AIR (BUILT-IN VALVE)
F-VAC	FUME HOOD VACUM (BUILT-IN VALVE)
F-CW	FUME HOOD COLD WATER (BUILT-IN VALVE)
FAK	FIRST AID KIT (12"x12"x3")
FBT	FIRE BLANKET (12"x6"x3")
FDN	FLOOR DRAIN
FDR	FILE DRAWER
FHD	FUME HOOD
FLT	FLUORESCENT LIGHT
FPL	FILLER PANEL
FVM	FACE VELOCITY MONITOR
FWR	FLASK WASHER
GFCI	GROUND FAULT CIRCUIT INTERUPTER
KSC	KNEE SPACE
LE-1	MULTI-OUTLET ASSEMBLY (PLUG MOLD), GFCI PROTECTED
LFE	LAB FIRE EXTINGUISHER
LP-1/DIW	DEIONIZED WATER (DECK)
LP-2/HCW	HOT/COLD WATER (MIXING FAUCET), (DECK)
LP-3/CW	COLD WATER (DECK)
LP-X/AIR	AIR, LP-4 (SINGLE DECK) & LP-6 (DOUBLE DECK)
LP-X/VAC	VACUM LP- 5 (SINGLE DECK) & LP- 7 (DOUBLE DECK)
LP-8/AGP	AIR GAP FOR FWR
LSK-1	LAB DOUBLE SINK W/ 2 SST DRAINBOARDS
LSK-2	LAB SINGLE EPOXY RESIN SINK (21-1/2"x15-1/2")
LSK-3	LAB CUP SINK (3"x6")
LSK-4	LAB CUP SINK (5-1/8"x14-1/2")
LSN	LAZY SUSAN
LWS-1	LAB WATER SYSTEM, CENTRAL DEIONIZER
LWS-2	LAB WATER SYSTEM, POINT-OF-USE DEIONIZER
OSF	OPEN SHELF
PBD	PULLBOARD
PTD	PAPER TOWEL DISPENSER (15"x11"x4")
RFR/F	REFRIGERATOR/FREEZER
SSR	SAFETY SHOWER
SWH	SWITCH (ELECTRIC)
TBD	TACKBOARD
TJK	TELEPHONE JACK
VBR	VACUUM BREAKER
WCK	WALL CLOCK
WRL	WASTE RECEPTACLE (18"x14"x6")

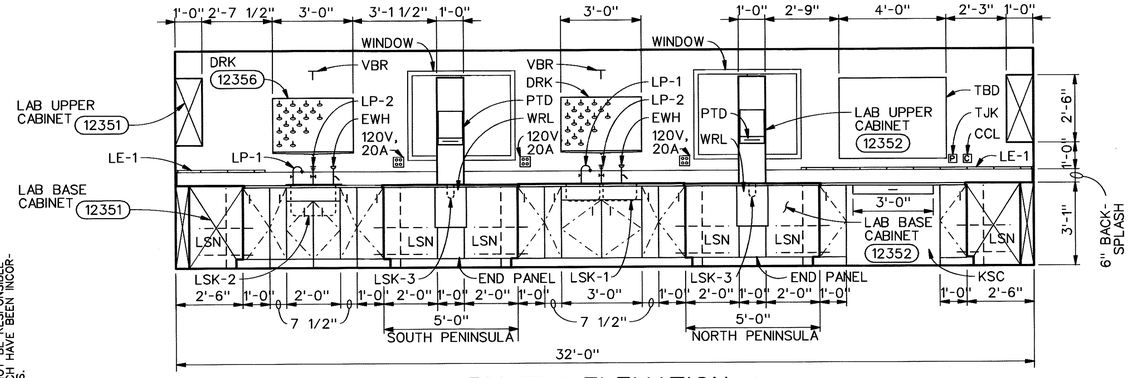
LABORATORY FIXTURE LEGEND

SYMBOL	DESCRIPTION
	SAMPLE FAUCET, LP-1
	HOT & COLD MIXING FAUCET, LP-2
	COLD WATER FAUCET, LP-3 (FRONT)
	COLD WATER FAUCET, LP-3 (SIDE)
	EYE/BODY WASH, EWH
	SUPPLY COCK, LP-4 (AIR), LP-5 (VAC)
	DOUBLE SUPPLY COCK, LP-6 (AIR), LP-7 (VAC)
	AIR GAP FOR FWR LP-8
T	VACUUM BREAKER, VBR
	CUP SINK, LSK-3
	MULTI-OUTLET ASSEMBLY, LE-1
C	COMPUTER CABLE, CCL
P	TELEPHONE JACK, TJK
	WALL CLOCK, WCK
	120V DUPLEX RECEPTACLE
	120V FOUR-PLEX RECEPTACLE
	SWITCH, SWH
	DESIGNATED ELECTRICAL CIRCUIT (SEE ELECTRICAL DRAWINGS)

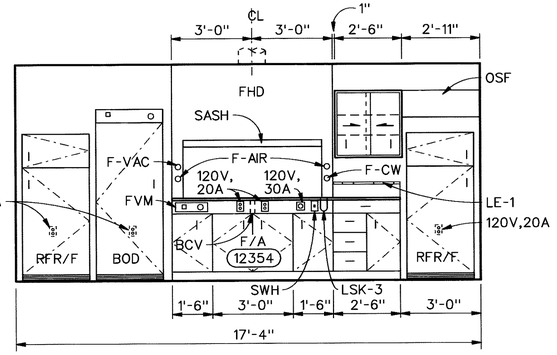
RECORD DRAWINGS

Revisions Drawn By LMB Date MARCH, 2002

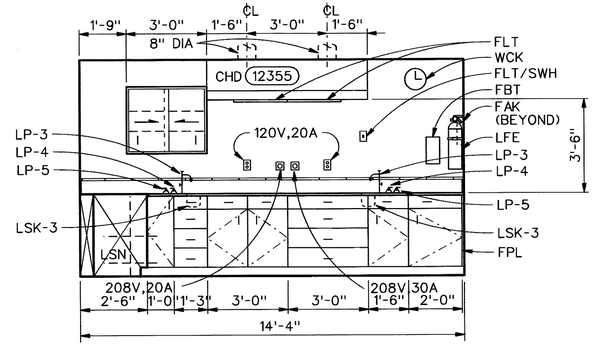
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL OR EXACTLY THE EXTENT OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



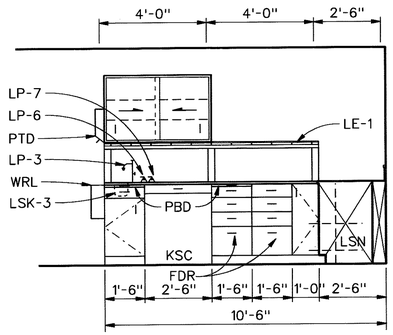
RM 111 ELEVATION 1
3/8"=1'-0"



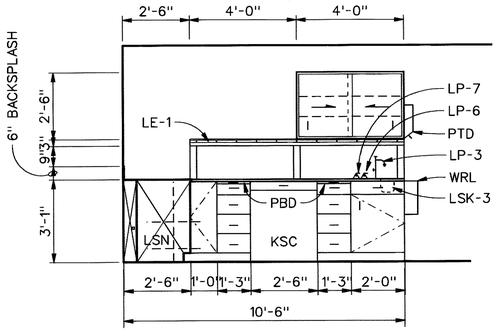
RM 111 ELEVATION 2
3/8"=1'-0"



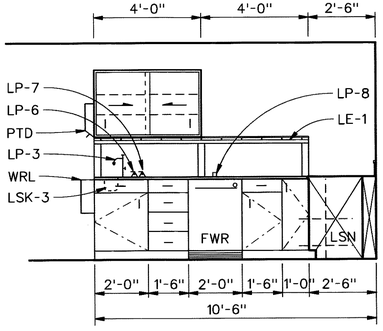
RM 111 ELEVATION 3
3/8"=1'-0"



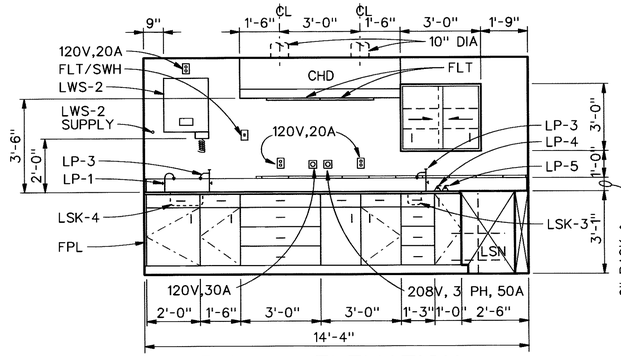
RM 111 ELEVATION 4
3/8"=1'-0"



RM 111 ELEVATION 5
3/8"=1'-0"



RM 111 ELEVATION 6
3/8"=1'-0"



RM 111 ELEVATION 7
3/8"=1'-0"

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN EA HADFIELD, JE CAVE						VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR JA HOSTETLER						
CHK M SCHWEIZER		3/02	RECORD DRAWING	LMB	WBC/JBL	
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	

CH2MHILL

CITY OF TROUTDALE, OREGON

TROUTDALE WATER POLLUTION CONTROL FACILITY

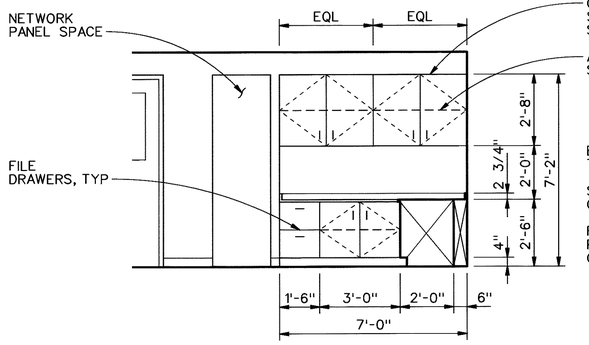
ADMINISTRATION BUILDING

ARCHITECTURAL LABORATORY ELEVATIONS

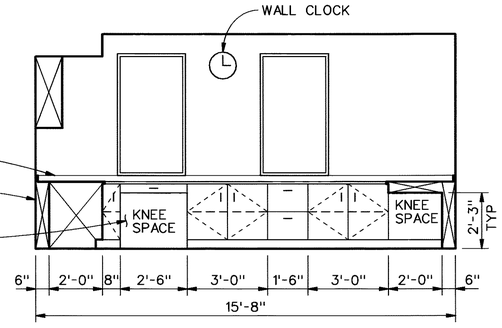
SHEET	117
DWG	70-A-302
DATE	DEC 1999
PROJ	151252

FILENAME: tr70a302.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 13:08:41

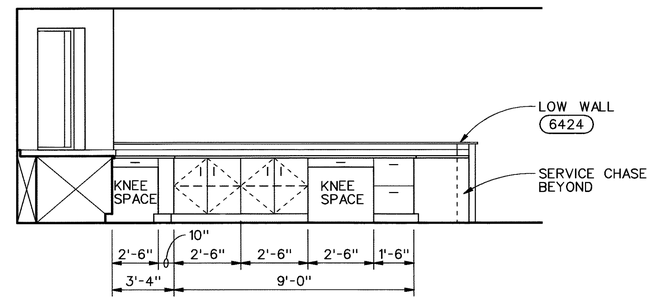
REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL



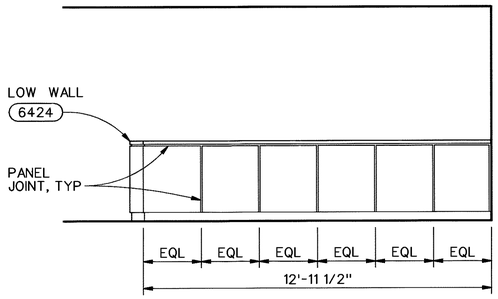
RM 101 ELEVATION 8
3/8"=1'-0"



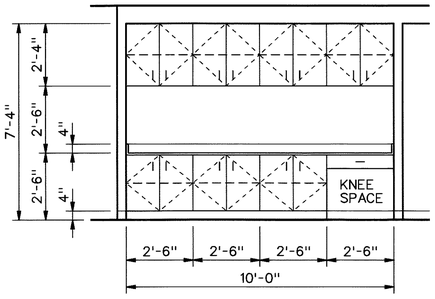
RM 101 ELEVATION 9
3/8"=1'-0"



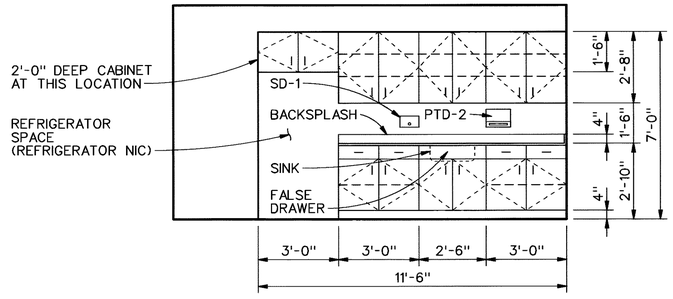
RM 101 ELEVATION 10
3/8"=1'-0"



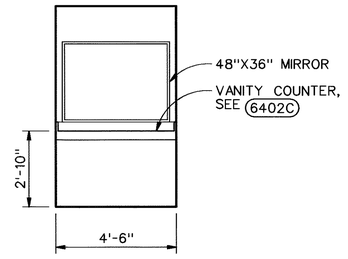
RM 100 ELEVATION 11
3/8"=1'-0"



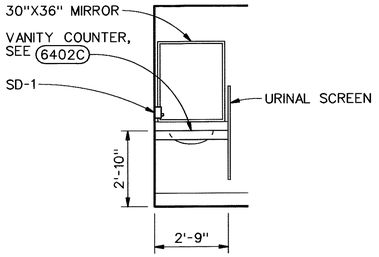
RM 112 ELEVATION 12
3/8"=1'-0"



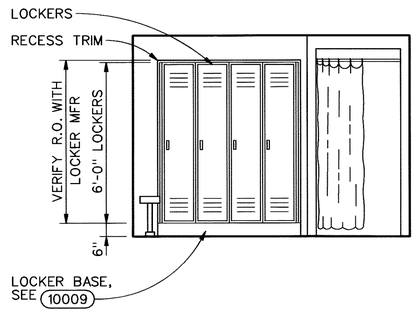
RM 105 ELEVATION 13
3/8"=1'-0"



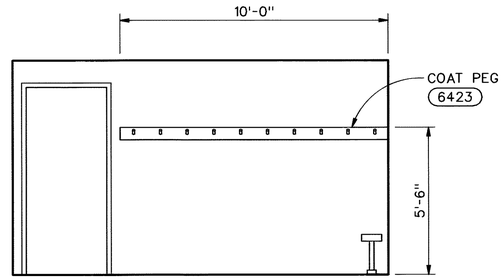
RM 106 ELEVATION 14
3/8"=1'-0"



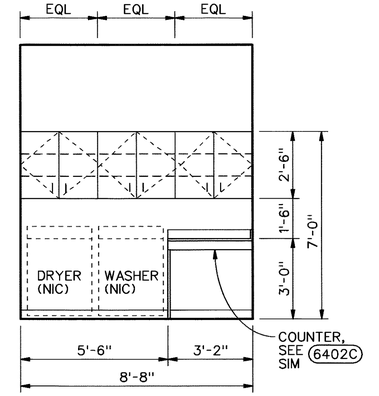
RM 106 ELEVATION 15
3/8"=1'-0"



RM 106 ELEVATION 16
3/8"=1'-0"



RM 108 ELEVATION 17
3/8"=1'-0"



RM 110 ELEVATION 18
3/8"=1'-0"

RECORD DRAWINGS

Revisions Drawn By LMB Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION THEREOF. CH2M HILL IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN	JE CAVE					
DR	JA HOSTETLER					
CHK	M SCHWEIZER					
APVD	RC FRANKENFIELD					
		NO.	DATE	REVISION	BY	APVD
			3/02	RECORD DRAWING	LMB	WBC/ JBL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL

CITY OF TROUTDALE, OREGON

TROUTDALE WATER POLLUTION CONTROL FACILITY

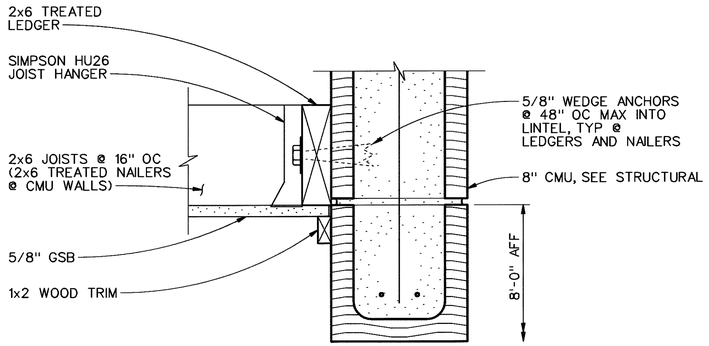
ADMINISTRATION BUILDING

ARCHITECTURAL INTERIOR ELEVATIONS

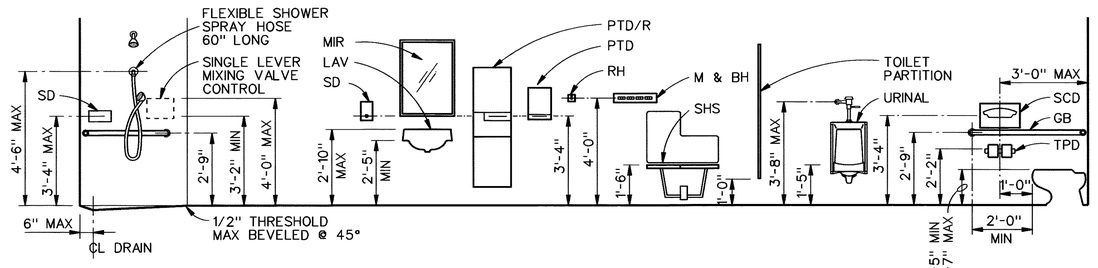
SHEET	118
DWG	70-A-303
DATE	DEC 1999
PROJ	151252

FILENAME: tr70a303.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 13:23:01

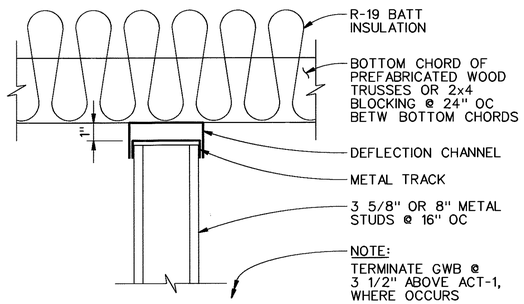
REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL



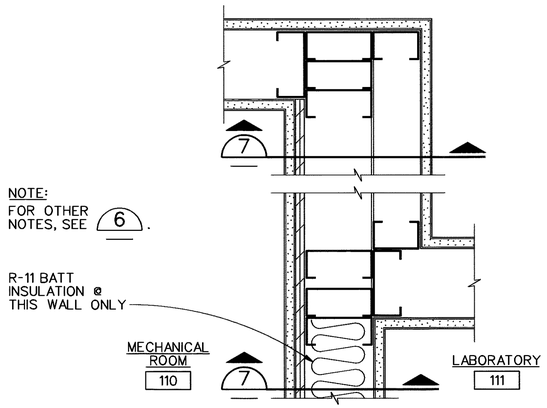
SOFFIT DETAIL 1
3"=1'-0" — 70-A-141



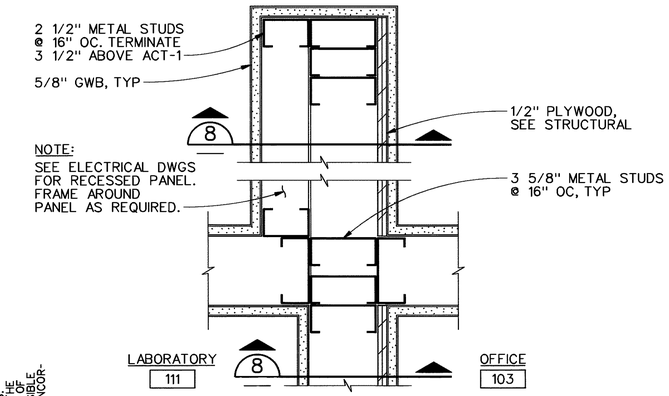
STANDARD FIXTURE MOUNTING HEIGHTS 4
NTS — 70-A-141



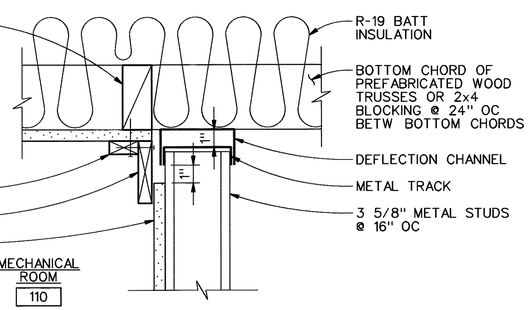
TOP OF WALL DETAIL 2
3"=1'-0" — 70-A-301



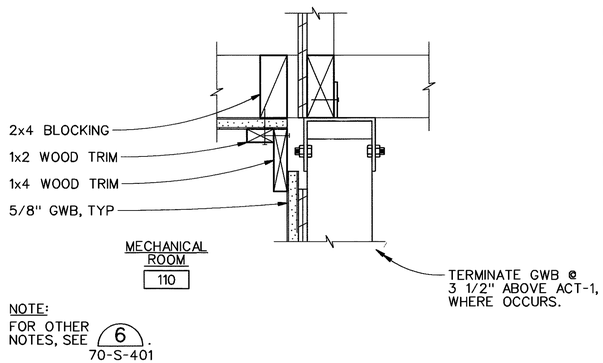
WALL DETAIL 5
3"=1'-0" — 70-A-131



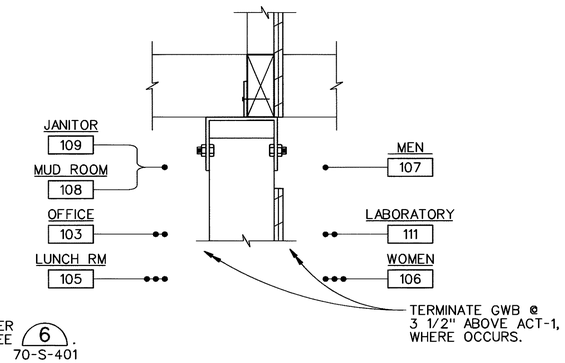
WALL DETAIL 6
3"=1'-0" — 70-A-131



TOP OF WALL DETAIL 3
3"=1'-0" — 70-A-301



TOP OF SHEAR WALL DETAIL 7
3"=1'-0" — 70-A-301



TOP OF SHEAR WALL DETAIL 8
3"=1'-0" — 70-A-301

RECORD DRAWINGS

Revisions Drawn By LMB Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT CONDITION OF CONSTRUCTION AS BUILT. THE CONSTRUCTION, THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN JE CAVE						VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR JA HOSTETLER						
CHK M SCHWEIZER		3/02	RECORD DRAWING	LMB	WBC/ JBL	
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	

CH2MHILL

CITY OF TROUTDALE, OREGON

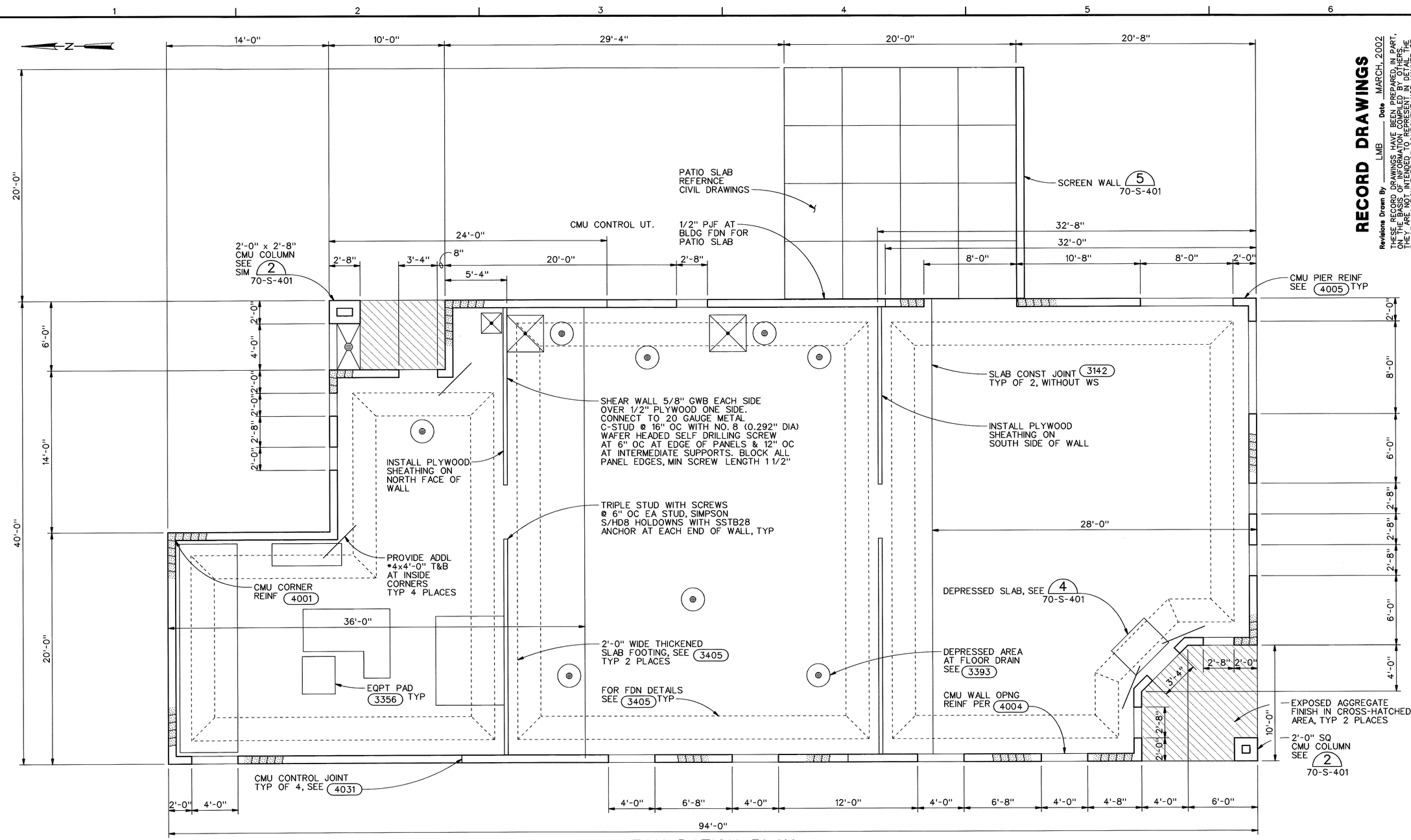
TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING

ARCHITECTURAL DETAILS

SHEET	119
DWG	70-A-401
DATE	DEC 1999
PROJ	151252

FILENAME: tr70a401.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 13:25:46



FOUNDATION PLAN

1/4"=1'-0"

RECORD DRAWINGS

Revisions Drawn By LMB Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, FROM CONTRACTOR SUPPLIED INFORMATION. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN AL FIRTH						VERIFY SCALE
DR CG BELLAMY						BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
CHK SM PITKIN		3/02	RECORD DRAWING	LMB	WBC/JBL	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	

CH2MHILL

CITY OF TROUTDALE, OREGON

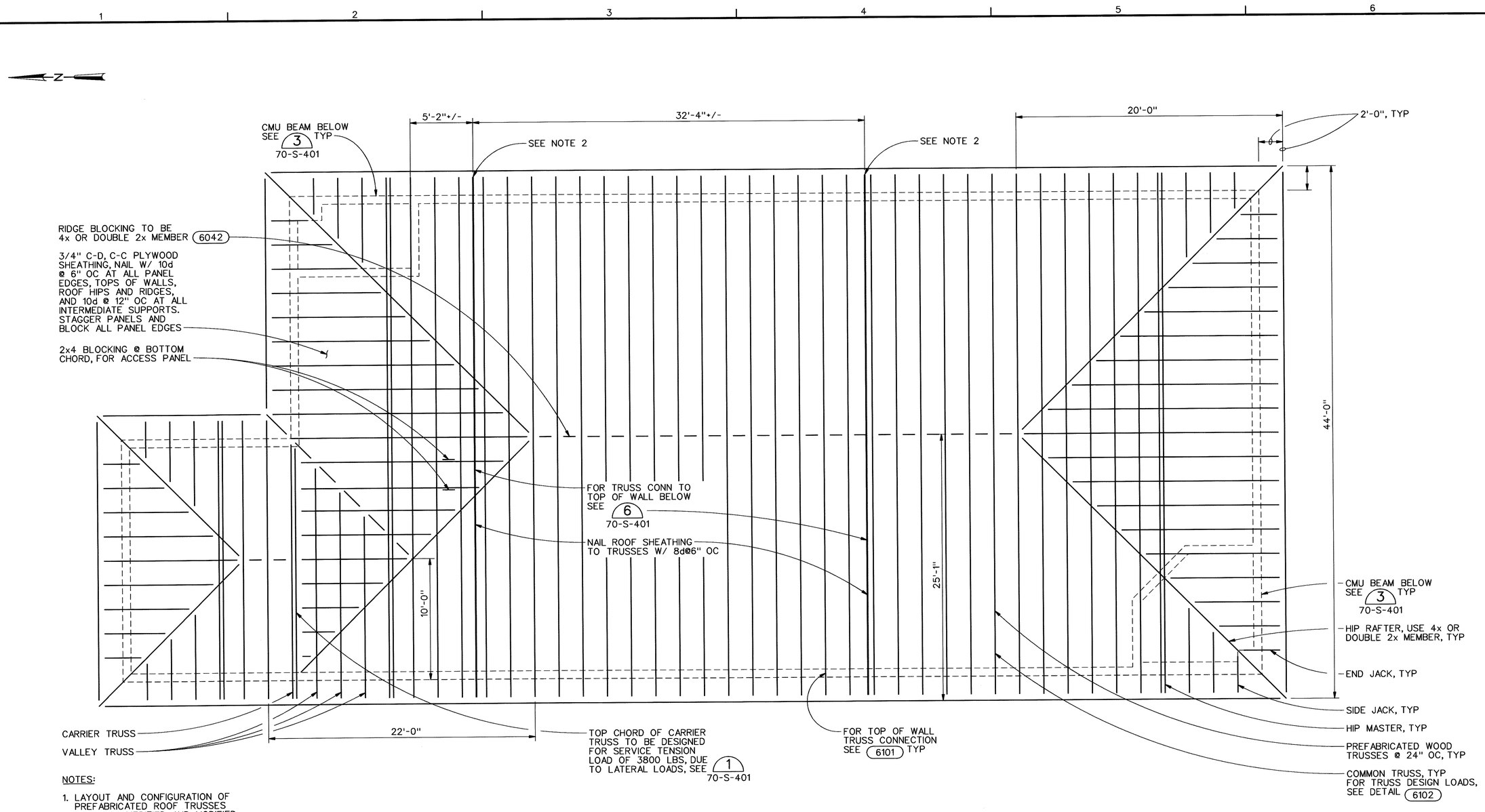
TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING

STRUCTURAL FOUNDATION PLAN

SHEET	120
DWG	70-S-131
DATE	DEC 1999
PROJ	151252

FILENAME: tr70s131.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 13:38:33



NOTES:

1. LAYOUT AND CONFIGURATION OF PREFABRICATED ROOF TRUSSES SHALL BE VERIFIED AND MODIFIED BY MANUFACTURER AS APPROPRIATE TO MEET DESIGN REQUIREMENTS. SEE NOTE ON DETAIL 6102.
2. ADDL TRUSS WITH 1/2" PLYWOOD NAILED ON ONE SIDE WITH 8D COMMON NAILS AT 6" OC ALL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS BLOCK ALL PANEL EDGES.

RECORD DRAWINGS

Revisions Drawn By LMB Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

ROOF FRAMING PLAN

1/4"=1'-0"

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN AL FIRTH					VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR JA HOSTETLER					
CHK SM PITKIN					
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD
	3/02		RECORD DRAWING	LMB	WBC/JBL

CH2MHILL

CITY OF TROUTDALE, OREGON

TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING

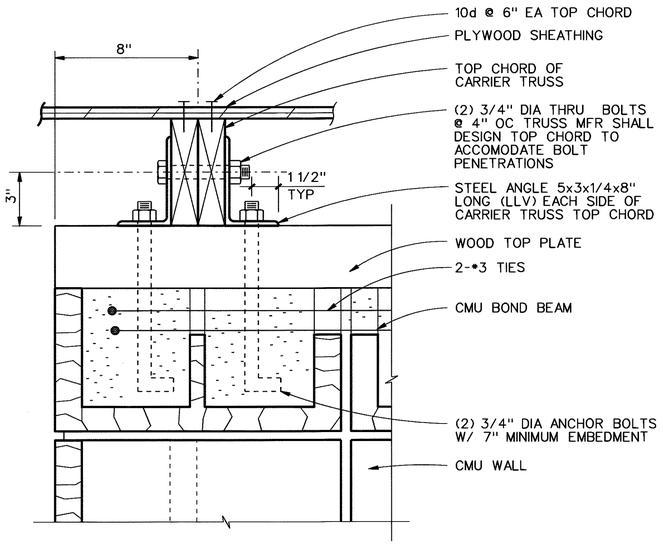
STRUCTURAL ROOF FRAMING PLAN

SHEET	121
DWG	70-S-141
DATE	DEC 1999
PROJ	151252

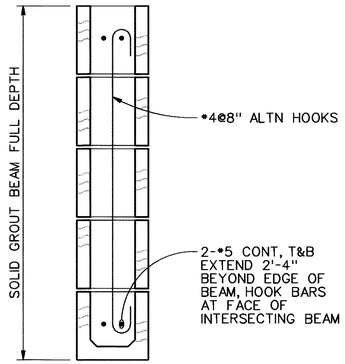
FILENAME: tr70s141.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 14:03:43

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

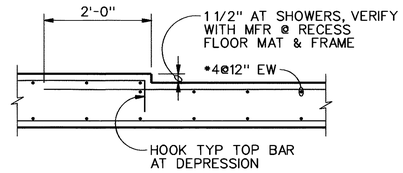
REUSE OF DOCUMENTS:



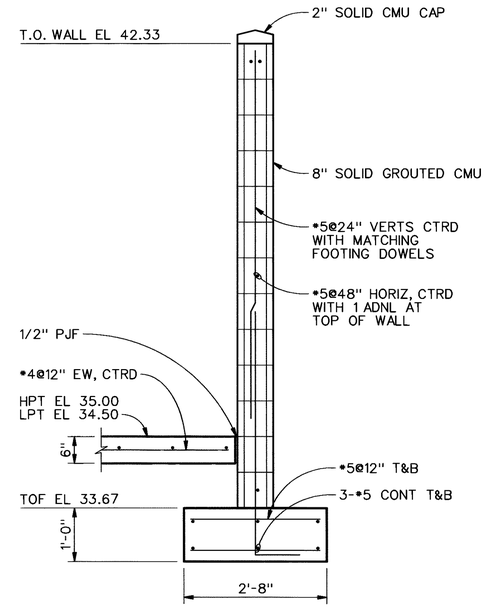
TRUSS CONNECTION AT CMU WALL 1
3"=1'-0" 70-S-141



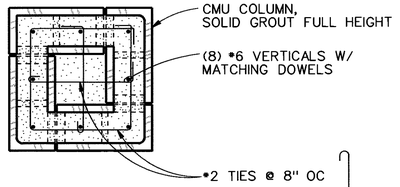
CMU BEAM 3
1 1/2"=1'-0" 70-S-201



SLAB AT DEPRESSION 4
3/4"=1'-0" 70-S-131

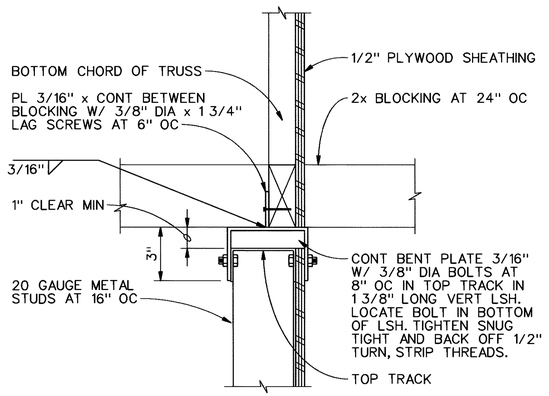


SCREEN WALL DETAIL 5
3/4"=1'-0" 70-S-131



CMU COLUMN 2
1"=1'-0" 70-S-131

8" MIN W/1" MIN RADIUS ON HOOK LOCATE IN JOINTS



DETAIL 6
3"=1'-0" 70-S-141
70-A-401

RECORD DRAWINGS

Revisions Drawn By LMB **Date** MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN AL FIRTH						VERIFY SCALE
DR CG BELLAMY						BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
CHK SM PITKIN		3/02	RECORD DRAWING	LMB	WBC/ JBL	
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	

CH2MHILL

CITY OF TROUTDALE, OREGON

TROUTDALE WATER POLLUTION CONTROL FACILITY

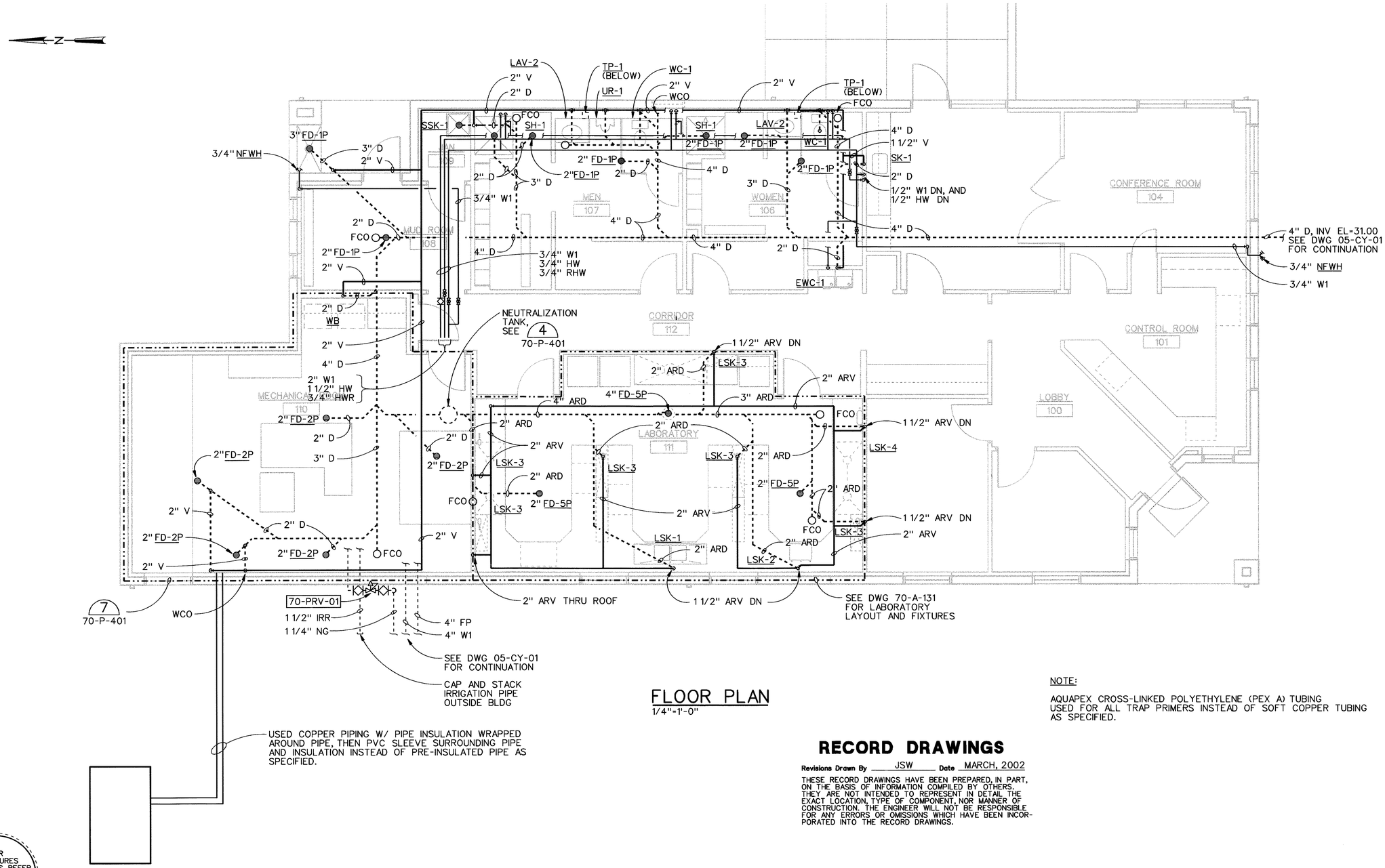
ADMINISTRATION BUILDING

STRUCTURAL DETAILS

SHEET	122
DWG	70-S-401
DATE	DEC 1999
PROJ	151252

FILENAME: tr70s401.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 14:09:56

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL



FLOOR PLAN

1/4"=1'-0"

NOTE:

AQUAPEX CROSS-LINKED POLYETHYLENE (PEX A) TUBING USED FOR ALL TRAP PRIMERS INSTEAD OF SOFT COPPER TUBING AS SPECIFIED.

RECORD DRAWINGS

Revisions Drawn By JSW Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN LL THORNTON AG OLSON						VERIFY SCALE
DR AG OLSON		3/02	RECORD DRAWING	JSW	WBC/ JBL	BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
CHK WB GIFFORD	1	1/00	ADDENDUM NO. 2	ERB	RCF	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	

CH2MHILL

CITY OF TROUTDALE, OREGON

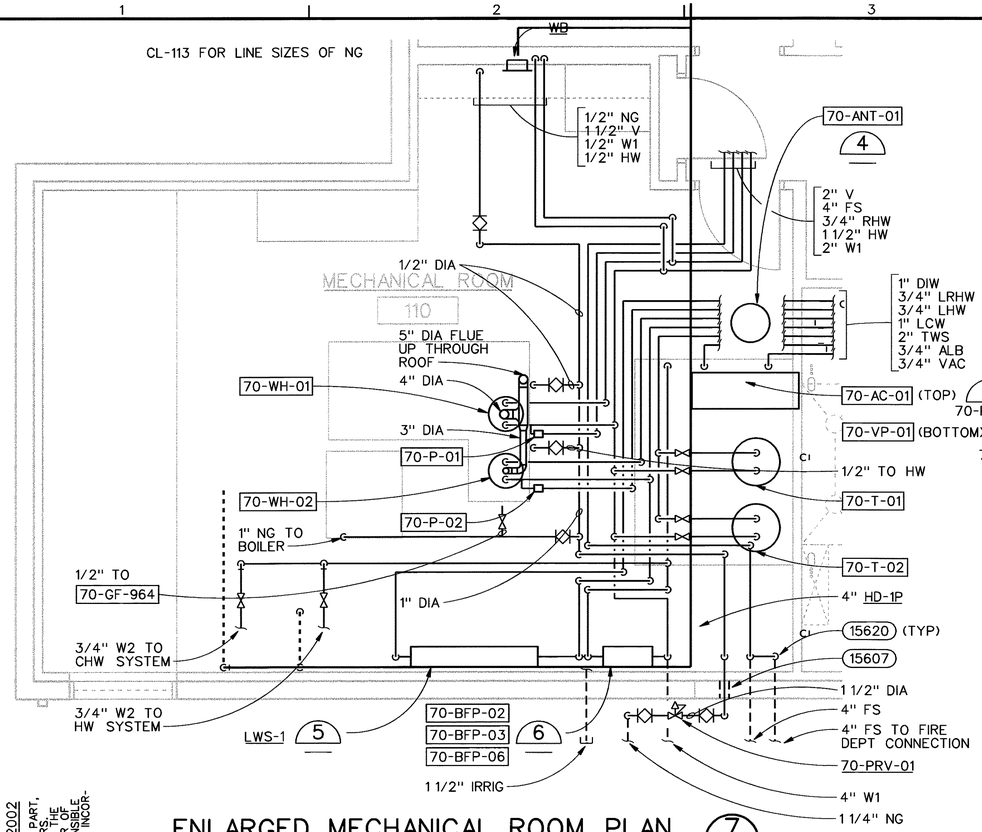
TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING

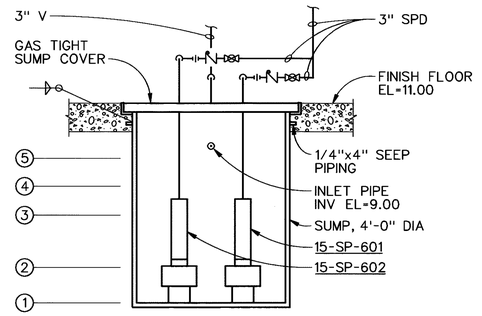
PLUMBING PLAN

SHEET	123
DWG	70-P-131
DATE	DEC 1999
PROJ	151252

FILENAME: tr70p131.dlv PLOT DATE: 22-MAY-2002 PLOT TIME: 13:45:53

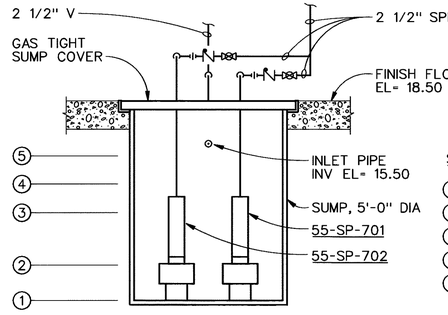


ENLARGED MECHANICAL ROOM PLAN 7
3/16"=1'-0" — 70-P-131



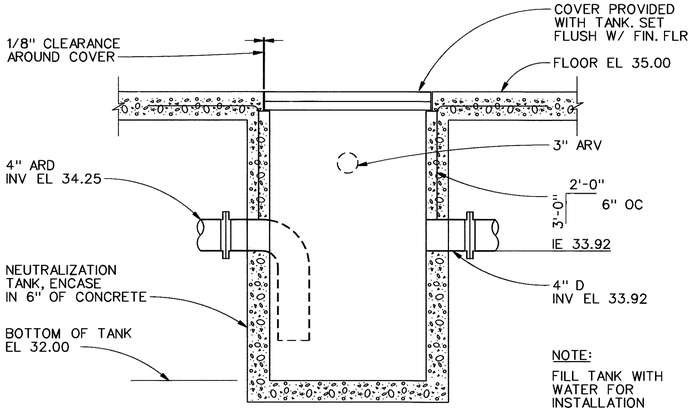
SUMP LEVEL CONTROL POINTS
1. BOTTOM OF SUMP, EL 3.00
2. PUMP OFF, EL 3.50
5. PUMP ON, EL 7.50
4. OVERRIDE, EL 8.00
3. HIGH WATER ALARM, EL 8.50

SUMP PUMP DETAIL HEADWORKS/PRIMARY INFLUENT BUILDING 1
NTS — 15-HP-121



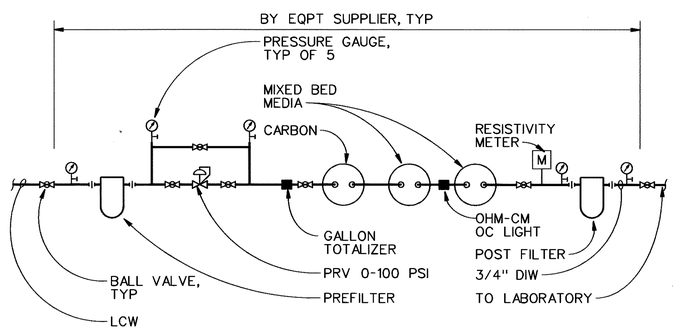
SUMP LEVEL CONTROL POINTS
1. BOTTOM OF SUMP, EL 11.50
2. PUMP OFF, EL 12.00
5. PUMP ON, EL 14.00
4. OVERRIDE, EL 14.50
3. HIGH WATER ALARM, EL 15.00

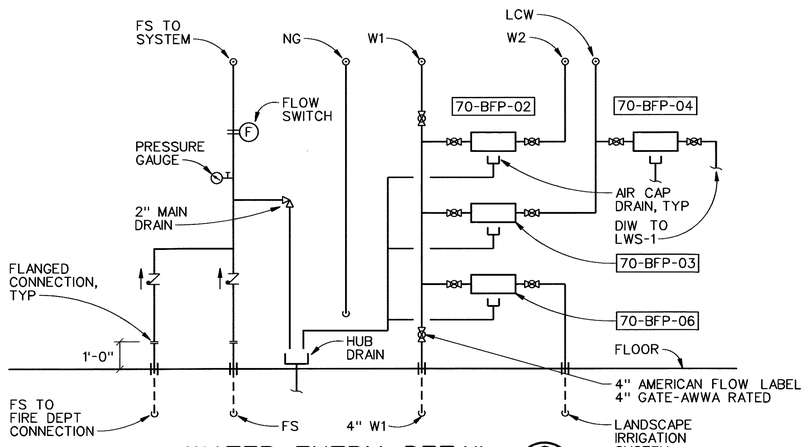
SUMP PUMP DETAIL DIGESTER COMPLEX 2
NTS — 55-HP-131



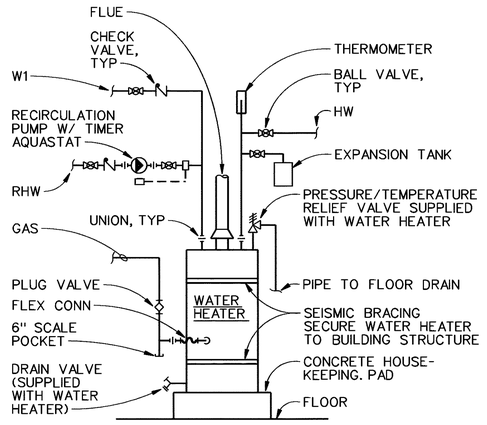
NOTE:
FILL TANK WITH WATER FOR INSTALLATION

NEUTRALIZATION TANK DETAIL 4
NTS





WATER ENTRY DETAIL 6
NTS



NATURAL GAS WATER HEATER W/ RECIRC PUMP DETAIL 3
NTS

LWS-1 CENTRAL DEIONIZER DETAIL 5
NTS

RECORD DRAWINGS

Revisions Drawn By ____ LMB ____ Date ____ MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL CONSTRUCTION TYPE OR COMPLETENESS. NO RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

NO.	DATE	REVISION	BY	APVD
1	3/02	RECORD DRAWING	LMB	WBC/ JBL
1	1/00	ADDENDUM NO. 2	ERB	RCF

DSGN LL THORNTON
DR JS WILLIAMSON, DS PIERCE
CHK WB GIFFORD
APVD RC FRANKENFIELD

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL

CITY OF TROUTDALE, OREGON
TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING
PLUMBING
PARTIAL PIPING PLAN & DETAILS

SHEET	124
DWG	70-P-401
DATE	DEC 1999
PROJ	151252

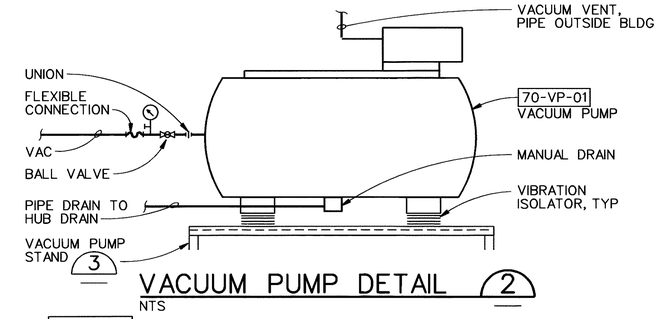
FILENAME: tr70p401.dlv PLOT DATE: 22-MAY-2002 PLOT TIME: 13:46:19

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL
REUSE OF DOCUMENTS

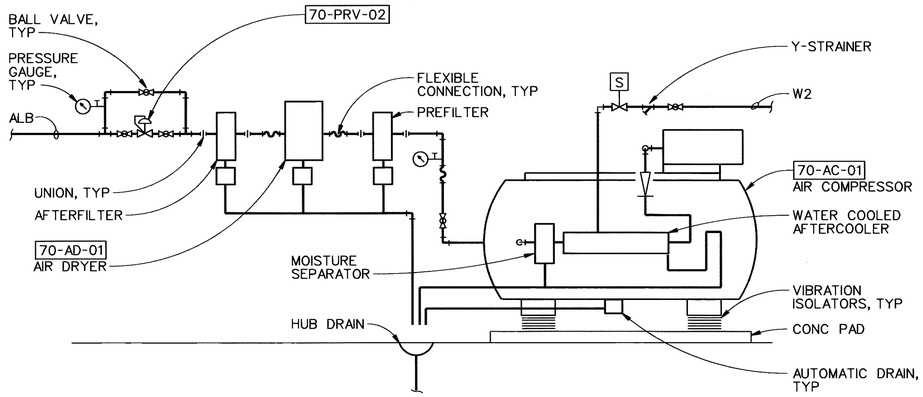
PLUMBING FIXTURE AND LABORATORY EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	D	V	ARD	ARV	W1	W2	HW	LCW	LHW	TWS	ALB	VAC	DW	COMMENTS
EEW-1	EMERGENCY EYEASH	1-1/2"	1-1/2"	-	-	3/4"	-	-	-	-	-	-	-	-	
EWC-1	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	-	-	1/2"	-	-	-	-	-	-	-	-	Barrier-Free Installation
LAV-1	LAVATORY - COUNTERTOP	1 1/2"	1 1/2"	-	-	1/2"	-	1/2"	-	-	-	-	-	-	Barrier-Free Installation
LAV-2	LAVATORY - WALL HUNG	1 1/2"	1 1/2"	-	-	1/2"	-	1/2"	-	-	-	-	-	-	Barrier-Free Installation
NFWH	NON-FREEZE WALL HYDRANT	-	-	-	-	3/4"	-	-	-	-	-	-	-	-	
NFYH	NON-FREEZE YARD HYDRANT	-	-	-	-	-	X"	-	-	-	-	-	-	-	3/4", 1", 1-1/2" - See Plans for Size
SH-1	SHOWER	2"	1 1/2"	-	-	1/2"	-	1/2"	-	-	-	-	-	-	Standard Installation
SK-1	KITCHEN SINK	2"	1 1/2"	-	-	1/2"	-	1/2"	-	-	-	-	-	-	Counter Installation
SSH-1	SAFETY SHOWER / EYEWASH	-	-	-	-	-	-	-	-	-	1-1/2"	-	-	-	
SSH-2	SAFETY SHOWER / EYEWASH	-	-	-	-	-	-	-	-	-	1-1/2"	-	-	-	
SSK-1	SERVICE SINK	3"	2"	-	-	3/4"	-	3/4"	-	-	-	-	-	-	Floor Mount Installation
SSK-2	SERVICE SINK - PEDISTAL MTD	3"	2"	-	-	3/4"	-	3/4"	-	-	-	-	-	-	Floor Mount Installation
UR-1	URINAL	2"	2"	-	-	3/4"	-	-	-	-	-	-	-	-	Barrier-Free Installation
WB	WASHER BOX	2"	1-1/2"	-	-	1/2"	-	1/2"	-	-	-	-	-	-	
WC-1	WATER CLOSET	4"	2"	-	-	1"	-	-	-	-	-	-	-	-	Standard Installation
WC-2	WATER CLOSET	4"	2"	-	-	1"	-	-	-	-	-	-	-	-	Barrier-Free Installation
EWH-1	EYE/BODY WASH	-	-	-	-	-	-	-	-	-	1/2"	-	-	-	Note 1&2
F-AIR	FUME HOOD AIR (BUILT-IN VALVE)	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	Note 1&2
F-CW	FUME HOOD LCW (BUILT-IN VALVE)	-	-	-	-	-	-	-	1/2"	-	-	-	-	-	Note 1&2
F-VAC	FUME HOOD VAC (BUILT-IN VALVE)	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	Note 1&2
FWR	FLASK WASHER	-	-	1 1/2"	1 1/2"	-	-	-	-	1/2"	-	-	-	1/2"	Note 1&2
LSK-1	LABORATORY SINK - DOUBLE	-	-	2"	1 1/2"	-	-	-	1/2"	1/2"	-	-	-	-	Note 1&2
LSK-2	LABORATORY SINK - SINGLE	-	-	2"	1 1/2"	-	-	-	1/2"	1/2"	-	-	-	-	Note 1&2
LSK-3	LABORATORY CUP SINK	-	-	1 1/2"	1 1/2"	-	-	-	1/2"	1/2"	-	-	-	-	Note 1&2
LP-1	DIW FAUCET - DECK	-	-	-	-	-	-	-	-	-	-	-	-	1/2"	Note 1&2
LP-2	HOT/COLD FAUCET - DECK	-	-	-	-	-	-	-	1/2"	1/2"	-	-	-	-	Note 1&2
LP-3	COLD FAUCET - DECK	-	-	-	-	-	-	-	1/2"	-	-	-	-	-	Note 1&2
LP-4	AIR COCK - SINGLE DECK	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	Note 1&2
LP-5	VACUUM COCK - SINGLE DECK	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	Note 1&2
LP-6	AIR COCK - DOUBLE DECK	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	Note 1&2
LP-7	VACUUM COCK - DOUBLE DECK	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	Note 1&2
LP-8	AIR COCK - SINGLE PANEL	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	Note 1&2
LP-9	VACUUM COCK - SINGLE PANEL	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	Note 1&2
LP-10	AIR GAP FITTING	-	-	-	-	-	-	-	-	-	-	-	-	-	Note 1,2&3 (for FWR)
LWS-1	LAB WATER SYSTEM - CENTRAL	-	-	-	-	-	-	-	-	-	-	-	-	1"	Note 1&2
LWS-2	LAB WATER SYSTEM - PT OF USE	-	-	-	-	-	-	-	-	-	-	-	-	1/2"	Note 1&2
SSR	SAFETY SHOWER	-	-	-	-	-	-	-	-	-	1-1/2"	-	-	-	Note 1&2

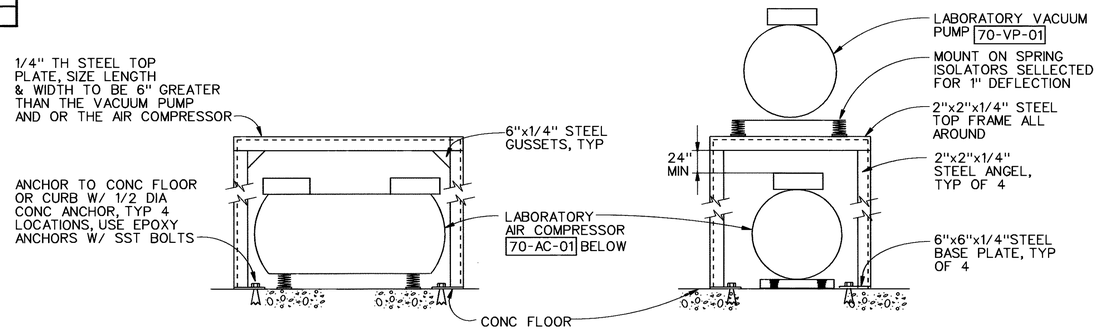
NOTES:
1. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, PLUMBING ROUGH-IN, AND FINAL CONNECTION OF PLUMBING FIXTURES, FAUCETS, LAB COCKS, AND LABORATORY EQUIPMENT LISTED IN THIS SCHEDULE AND SPECIFIED UNDER SPECIFICATION SECTION 12345, LABORATORY CASEWORK AND FURNISHINGS. MECHANICAL CONTRACTOR SHALL VERIFY ACTUAL ROUGH-IN AND FINAL CONNECTION REQUIREMENTS PRIOR TO STARTING WORK.
2. FOR ACTUAL LOCATION OF LABORATORY EQUIPMENT AND PLUMBING FIXTURES SEE ARCHITECTURAL LABORATORY ELEVATIONS.
3. INSTALL AIR GAP FITTING (LP-10) PER MANUFACTURERS INSTRUCTIONS.



VACUUM PUMP DETAIL 2
NTS



AIR COMPRESSOR DETAIL 1
NTS



FRONT ELEVATION

SIDE ELEVATION

NOTES:
1. FIELD MEASURE FACILITY & EQUIPMENT BEFORE FABRICATION.
2. WELD LEG & MITERED FRAME CORNER JOINTS W/ CONTINUOUS FULL PEN SQ GROOVE WELDS. WELD TOP PLATE & BACKING ANGLE TO FRAME WITH 3/16" FILLET WELDS, 2" @ 6" O.C. ALL AROUND.
3. PREP & PAINT ENTIRE STAND W/ SYSTEM 5 PRIOR TO INSTALLATION. SEE SPECIFICATIONS.

VACUUM PUMP STAND 3
NTS

RECORD DRAWINGS

Revisions Drawn By LMB Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN LL THORNTON
DR PD VALENTINE, DS PIERCE
CHK WB GIFFORD
APVD RC FRANKENFIELD

NO.	DATE	REVISION	BY	APVD
	3/02	RECORD DRAWING	LMB	WBC/JBL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL

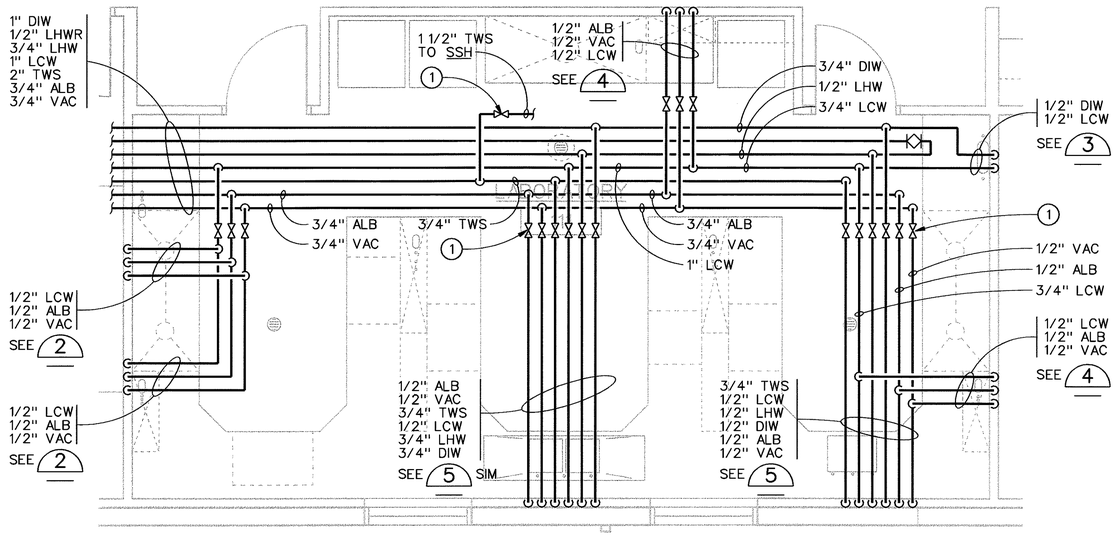
CITY OF TROUTDALE, OREGON
TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING
PLUMBING DETAILS

SHEET	125
DWG	70-P-402
DATE	DEC 1999
PROJ	151252

FILENAME: tr70p402.dlv PLOT DATE: 22-MAY-2002 PLOT TIME: 13:46:54

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL



GENERAL NOTES:

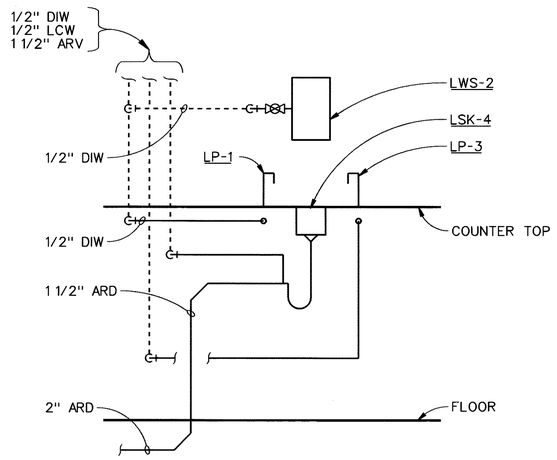
1. ALL PIPING BELOW COUNTER TOPS SHALL BE ROUTED IN PIPE CHASE.
2. REFER TO LABATORY ELEVATIONS ON DWG 70-A-302.

ENLARGED LAB PIPING PLAN

1/4"=1'-0"

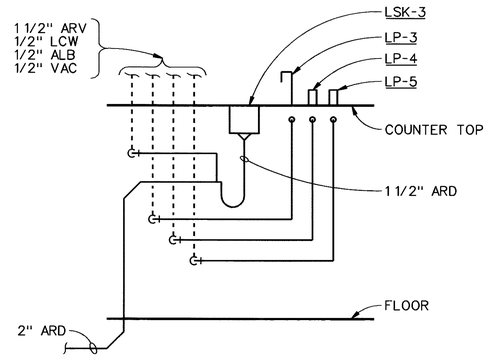
NOTES:

(1) ALL VALVES ON TWS SYSTEM SHALL HAVE LOCKABLE HANDLES, LOCKED IN THE OPEN POSITION.



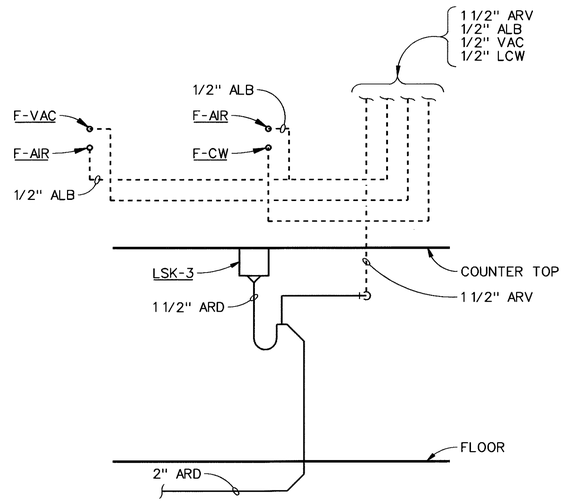
LAB PIPING DETAIL 3

NTS



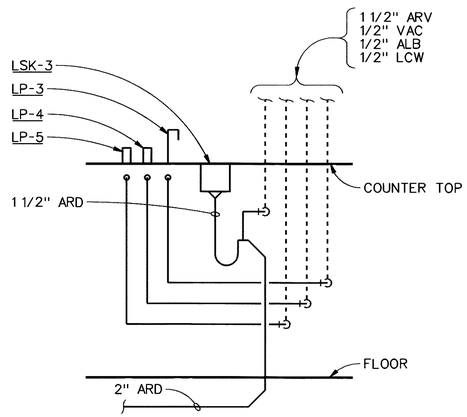
LAB PIPING DETAIL 4

NTS



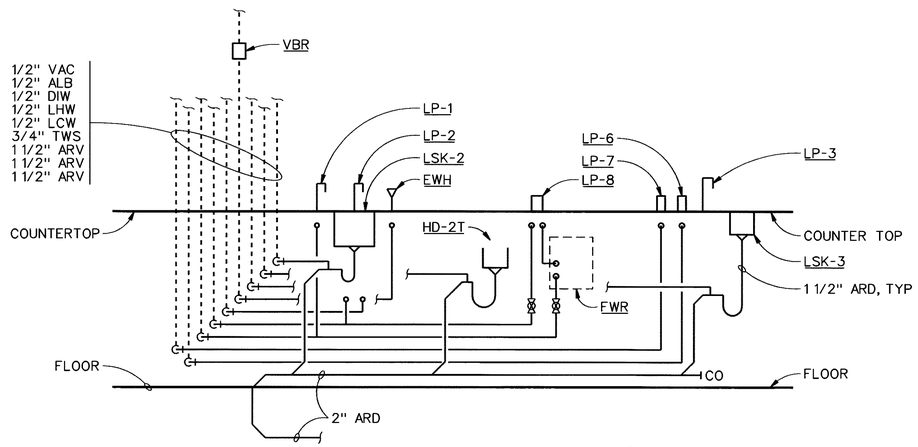
LAB PIPING DETAIL 1

NTS



LAB PIPING DETAIL 2

NTS



LAB PIPING DETAIL 5

NTS

RECORD DRAWINGS

Revisions Drawn By LMB Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN LL THORNTON						VERIFY SCALE
DR RK COWAN		3/02	RECORD DRAWING	LMB	WBC/ JBL	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
CHK LL THORNTON	1	1/00	ADDENDUM NO. 2	ERB	RCF	
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	

CH2MHILL

CITY OF TROUTDALE, OREGON

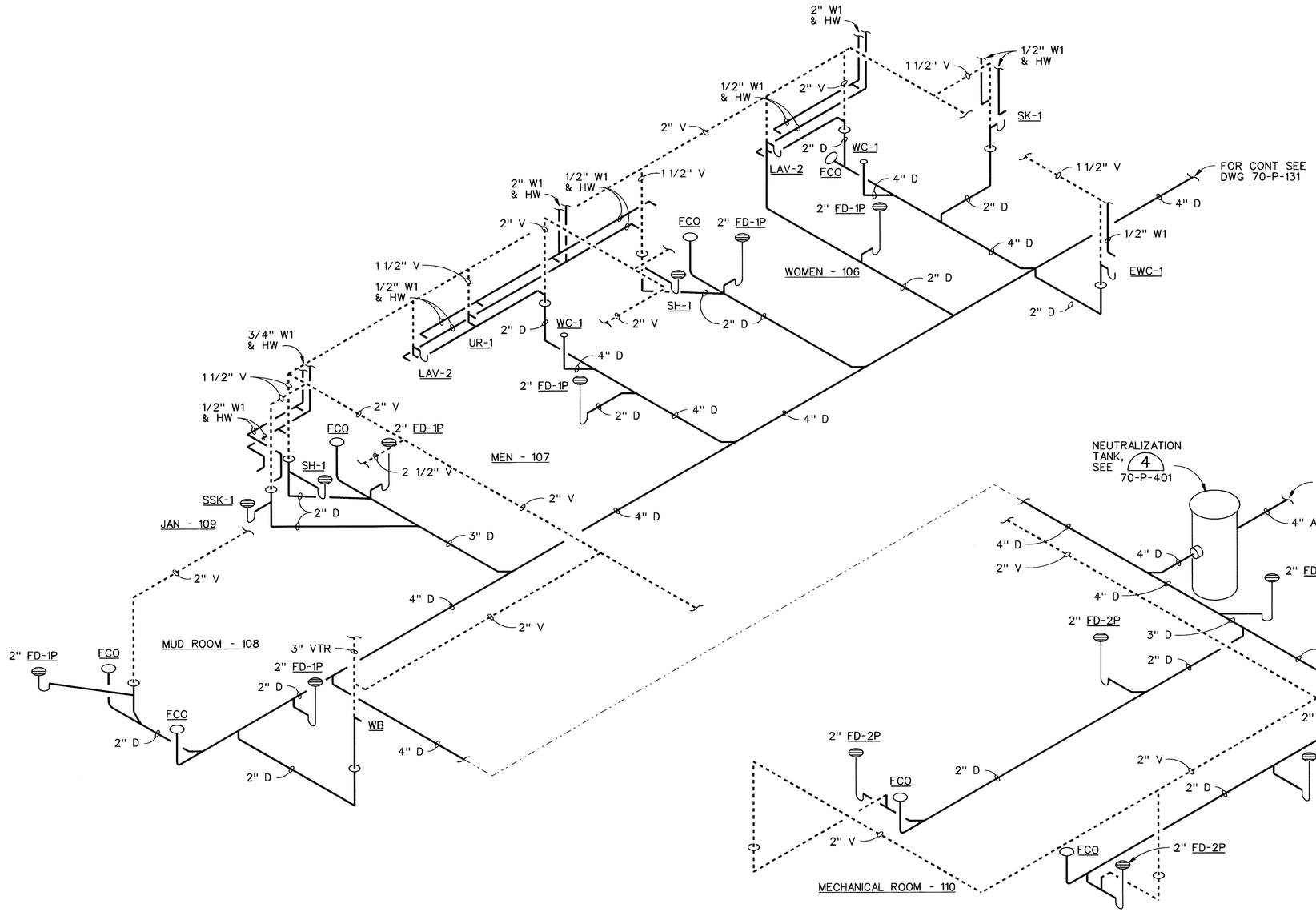
TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING

PLUMBING
ENLARGED LAB PIPING PLAN AND DETAILS

SHEET	125A
DWG	70-P-403
DATE	DEC 1999
PROJ	151252

FILENAME: tr70p403.dlv PLOT DATE: 11-FEB-2002 PLOT TIME: 14:31:16



RECORD DRAWINGS

Revisions Drawn By JSW Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

ADMINISTRATION BUILDING RISER DIAGRAM

NTS

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN LL THORNTON					
DR ER BROWN		3/02	RECORD DRAWING	JSW	WBC/JBL
CHK LL THORNTON	1	1/00	ADDENDUM NO. 2	ERB	RCF
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL

CITY OF TROUTDALE, OREGON

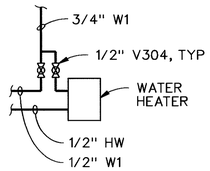
TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING

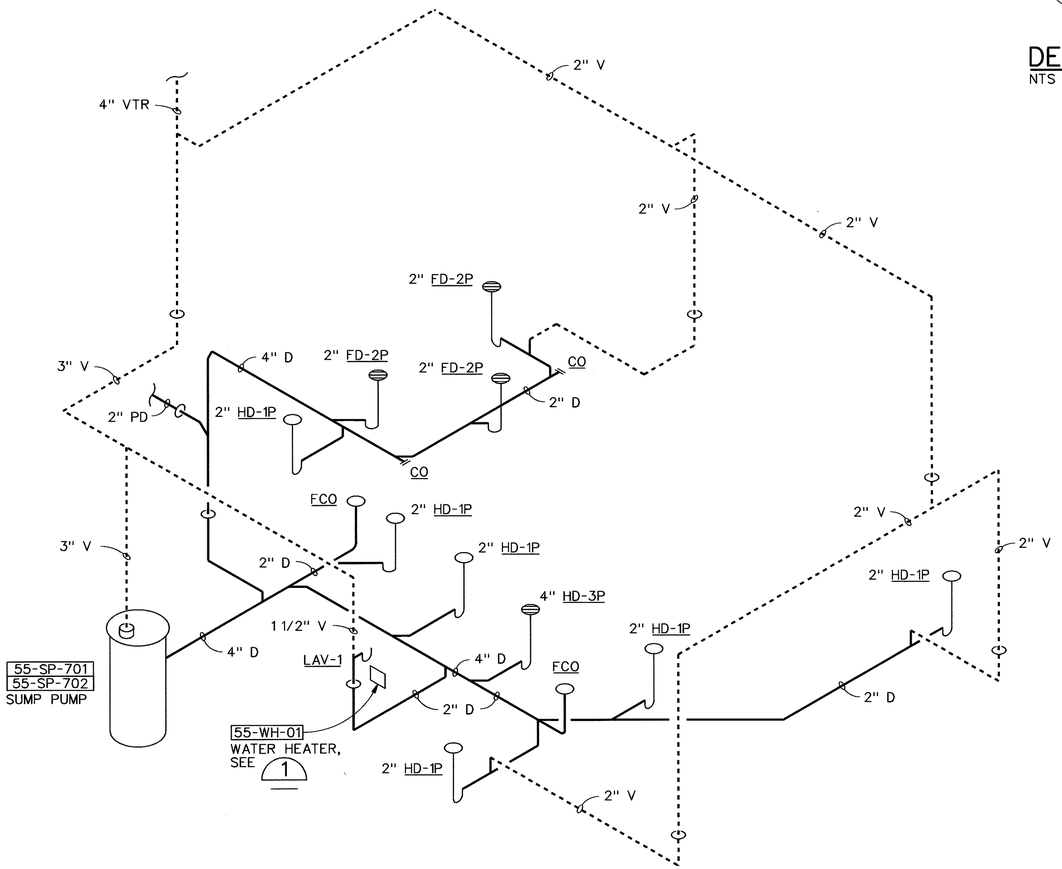
PLUMBING RISER DIAGRAMS

SHEET	125B
DWG	70-P-404
DATE	DEC 1999
PROJ	151252

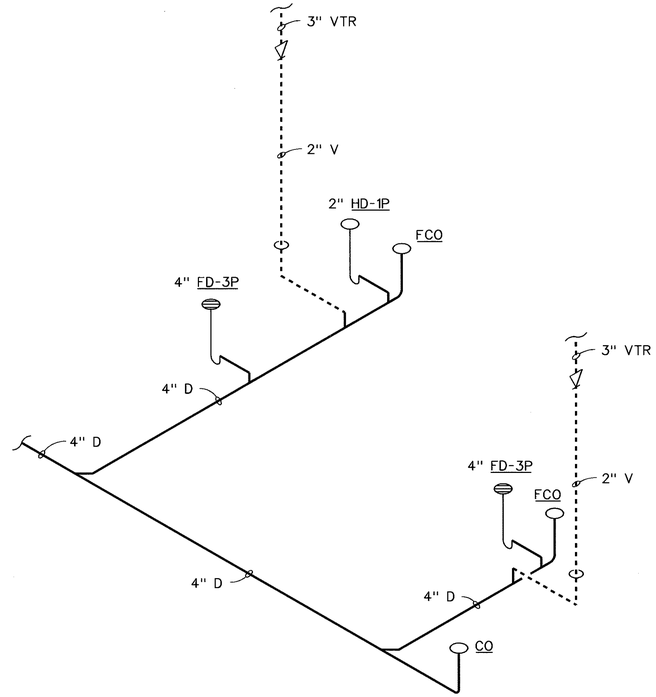
FILENAME: tr70p404.dlv PLOT DATE: 23-MAY-2002 PLOT TIME: 06:51:16



DETAIL 1
NTS



DIGESTER COMPLEX RISER DIAGRAM
NTS



UV DISINFECTION RISER DIAGRAM
NTS

RECORD DRAWINGS

Revisions Drawn By LMB Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN LL THORNTON					
DR ER BROWN		3/02	RECORD DRAWING	LMB	WBC/JBL
CHK LL THORNTON	1	1/00	ADDENDUM NO. 2	ERB	RCF
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL

CITY OF TROUTDALE, OREGON
TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING
PLUMBING RISER DIAGRAMS

SHEET	125C
DWG	70-P-405
DATE	DEC 1999
PROJ	151252

FILENAME: tr70p405.dlv PLOT DATE: 22-MAY-2002 PLOT TIME: 13:47:59

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

NOTES:

1. THE HVAC SYSTEMS AND DUCTWORK FOR THE OFFICES, CONFERENCE ROOM, LUNCH ROOM, RESTROOMS, AND CORRIDOR ARE PERFORMANCE SPECIFIED. SEE SPECIFICATION SECTION 15500. 70AHU952 SHALL BE LOCATED PARALLEL WITH AND ABOVE 70AHU951.

2. COMPENSATE FOR VARIATIONS IN UNIT LENGTH BY ADJUSTING LENGTH OF PLENUM. PLENUM HEIGHT SHALL MATCH HEIGHT OF 80 INCH HIGH LOUVER. DIVIDE PLENUM VERTICALLY INTO TWO EQUAL SECTIONS ONE SERVING EACH UNIT.

3. INTERNALLY INSULATE SUPPLY DUCT FROM 70AHU951 FROM THE FAN TO THE WALL PENETRATION IN THE LAB. EXTERNALLY INSULATE IN LAB.

4. ALL SUPPLY DUCTS AND ALL DUCTS FOR 70AHU952 AND 70RF956 ARE GALVANIZED STEEL. THE DUCTS FOR TOILET ROOM EXHAUST FAN ARE ALULMINUM. PROVIDE FLEXIBLE FIBERGLASS DUCT INSULATION FOR ALL THESE DUCTS. 6 FEET OF ROUND FLEXIBLE INSULATED FIBERGLASS DUCT MAY BE USED FOR FINAL CONNECTION TO AIR TERMINAL DEVICES ON THE PERFORMANCE SPECIFIED SYSTEM SUPPLY AND RETURN DUCTS ONLY.

5. DUCTS FOR 70AHU952 AND 70RF956 MAY BE LOCATED IN THE ATTIC SPACE AMONG THE TRUSSES ABOVE THE MECHANICAL ROOM OR MUD ROOM ONLY AT THE CONTRACTORS DISCRETION. ALL OTHER DUCTS SHALL BE LOCATED BELOW THE TRUSSES. 70RF956 SHALL BE LOCATED TO ALLOW SERVICE.

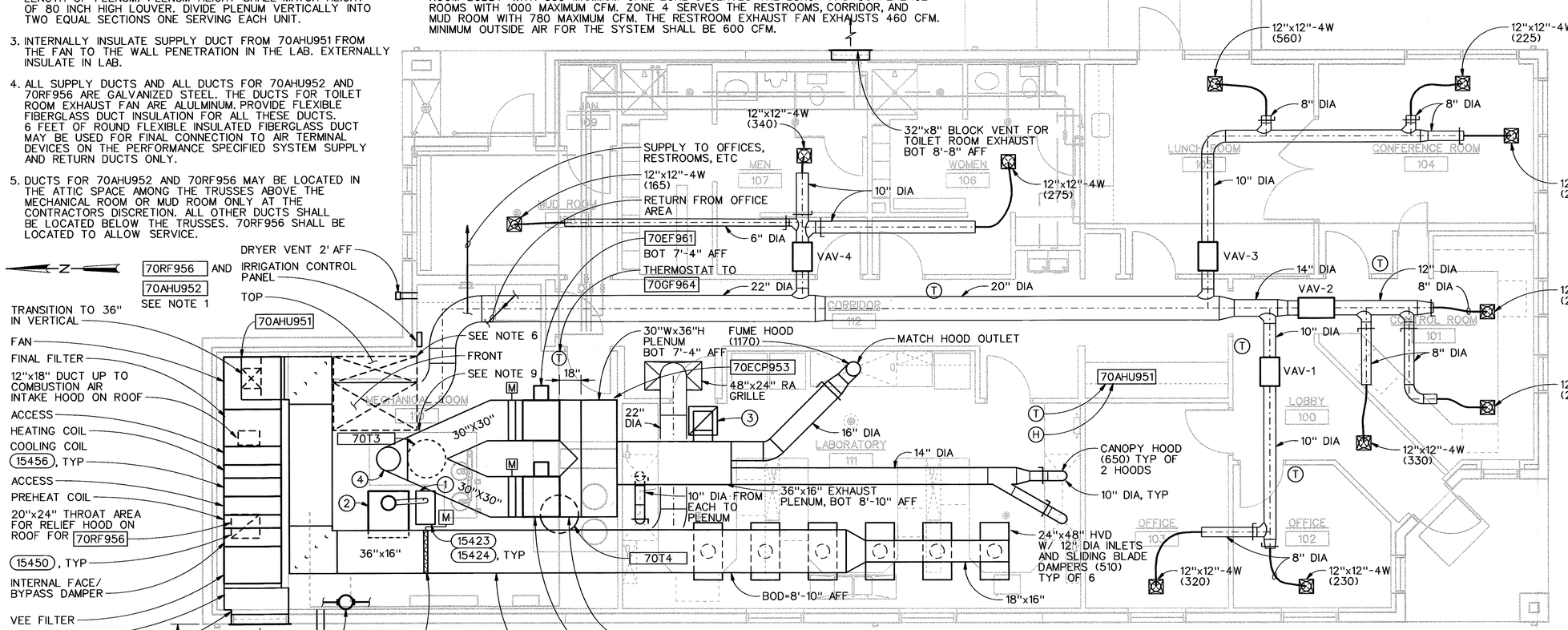
6. CODE REQUIRED CLEARANCE ABOVE AND IN FRONT OF ELECTRICAL EQUIPMENT IS INDICATED. FRONT CLEARANCE IS 42 INCHES IN FRONT OF EQUIPMENT TO A HEIGHT OF 96 INCHES AFF. TOP CLEARANCE EXTENDS TO ROOF.

7. THE PERFORMANCE SPECIFIED SYSTEM SHALL HAVE FOUR ZONES WITH A VOLUME CONTROL DAMPER FOR EACH. A BYPASS DAMPER SHALL ALSO BE INCLUDED. ZONE 1 SERVES OFFICE 102 AND 103 WITH 550 MAXIMUM CFM. ZONE 2 SERVES THE CONTROL ROOM LOBBY WITH 800 MAXIMUM CFM. ZONE 3 SERVES THE LUNCH AND CONFERENCE ROOMS WITH 1000 MAXIMUM CFM. ZONE 4 SERVES THE RESTROOMS, CORRIDOR, AND MUD ROOM WITH 780 MAXIMUM CFM. THE RESTROOM EXHAUST FAN EXHAUSTS 460 CFM. MINIMUM OUTSIDE AIR FOR THE SYSTEM SHALL BE 600 CFM.

8. EXHAUST FANS HAVE ROUND INLETS AND OUTLETS. MAKE ROUND TO RECTANGULAR TRANSITION AT FAN. PROVIDE CHEMICAL RESISTANT FLEX CONNECTIONS AT LAB EXHAUST FAN INLETS ONLY, NO FLEX CONNECTIONS ON FAN OUTLETS. LEAKPROOF, CHEMICAL RESISTANT SHAFT SEALS SHALL BE PROVIDED ON MOTORIZED DAMPERS SERVING THE LAB EXHAUST FANS.

9. LAB EXHAUST DUCTS SHALL COMPLY WITH NOTE 6.

10. 70RF956 MAY BE LOCATED ABOVE THE CEILING IN THE MUD ROOM OR THE MEN'S RESTROOM OR SOMEWHERE IN THE MECHANICAL ROOM. PROVIDE ACCESS PANEL IF REQUIRED FOR SERVICE.



FLOOR PLAN
1/4"=1'-0"

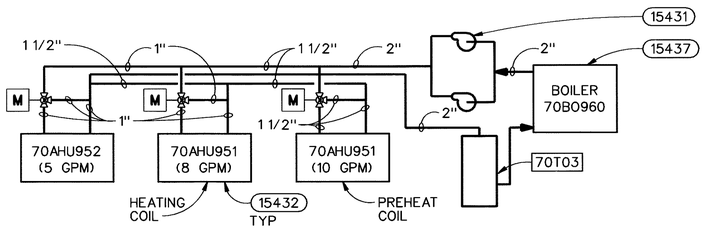
SHEET NOTES:

1. 70GF964
2. 70BO960
3. 24"x24" PCG W/ OBD (1030) 16"x16" NECK
4. 20" DIA STACK, SEE 15414

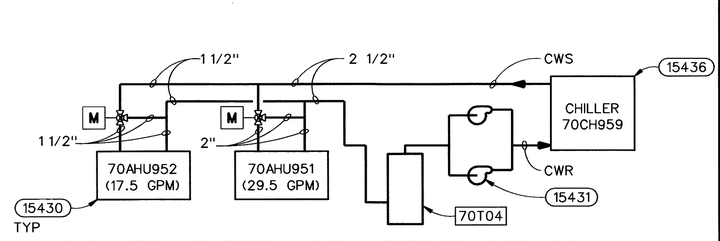
NOTE: HVAC SYSTEM FOR ADMINISTRATION BUILDING PROVIDED BY GENERAL SHEET METAL WITH SUBMITTAL 58-190-4

REFERENCE CL-112 FOR ADDED COSTS FOR FIRE ALARM SYSTEM.

REFERENCE CL-70 FOR FIRE SUPPRESSION SPRINKLER SYSTEM-WET SYSTEM AS PER SPECIFICATIONS, DRY SYSTEM INSTALLED.



HEATING WATER LOOP PIPING SCHEMATIC
NTS



CHILLED WATER LOOP PIPING SCHEMATIC
NTS

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN TA LAVELLE						VERIFY SCALE
DR JS WILLIAMSON		3/02	RECORD DRAWING	RKC	WBC/ JBL	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
CHK LL THORNTON	1	1/00	ADDENDUM NO. 1	ERB	RCF	
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	

CH2MHILL

CITY OF TROUTDALE, OREGON

TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING

HVAC PLAN AND DETAILS

SHEET	126
DWG	70-H-131
DATE	DEC 1999
PROJ	151252

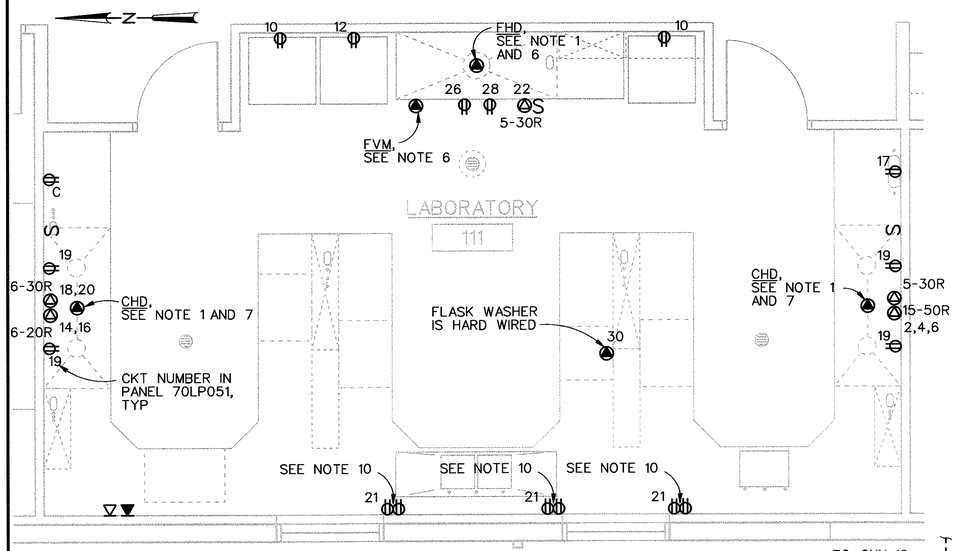
FILENAME: tr70h131.dlv PLOT DATE: 28-MAR-2000 PLOT TIME: 10:59:43

RECORD DRAWINGS

Revisions Drawn By RKC Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN PART, ON INFORMATION FURNISHED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL



ENLARGED LAB PLAN

3/8"=1'-0"

NOTES:

1. LIGHTING CONNECTIONS TO FLT'S IN CHD AND FHD AND FVM CONNECTION AT FHD ARE FED FROM CIRCUIT 8 IN 70LP051. PROVIDE NO. 12 WIRING WITH NO. 12 GROUND IN 3/4" CONDUIT AS REQUIRED. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.
2. FOR LABORATORY EQUIPMENT ABBREVIATIONS AND LEGEND, SEE DRAWING 70-A-302.
3. FOR EXACT LOCATIONS OF ELECTRICAL ITEMS, SEE ARCHITECTURAL INTERIOR ELEVATIONS.
4. FOR LABORATORY EQUIPMENT, SEE SPECIFICATIONS SECTION 12345.
5. ROUTE CONDUITS VIA CHASE BETWEEN WALL AND CABINETS WHEREVER POSSIBLE.
6. FUME HOOD:
   - A. FHD (EXPLOSION PROOF)
     1. CONNECT TO ONE LIGHT, FURNISHED WITH HOOD
     2. CONNECT TO LIGHT SWITCH, MOUNTED IN COUNTER FRONT
     3. CONNECT TO FVM, FURNISHED WITH HOOD (120 VOLT POWER) AND EMPTY CONDUIT ONLY TO 70ECP01 (CONTROL WIRING BY HVAC, DIVISION 15)
   - B. FHD IS EXPLOSION PROOF. INSTALL WIRING IN ACCORDANCE WITH NEC.
7. CANOPY HOODS:
   - A. CHD
     1. CONNECT TO THREE LIGHTS, FURNISHED WITH HOOD
     2. CONNECT TO LIGHT SWITCH, MOUNTED ON WALL

RECORD DRAWINGS

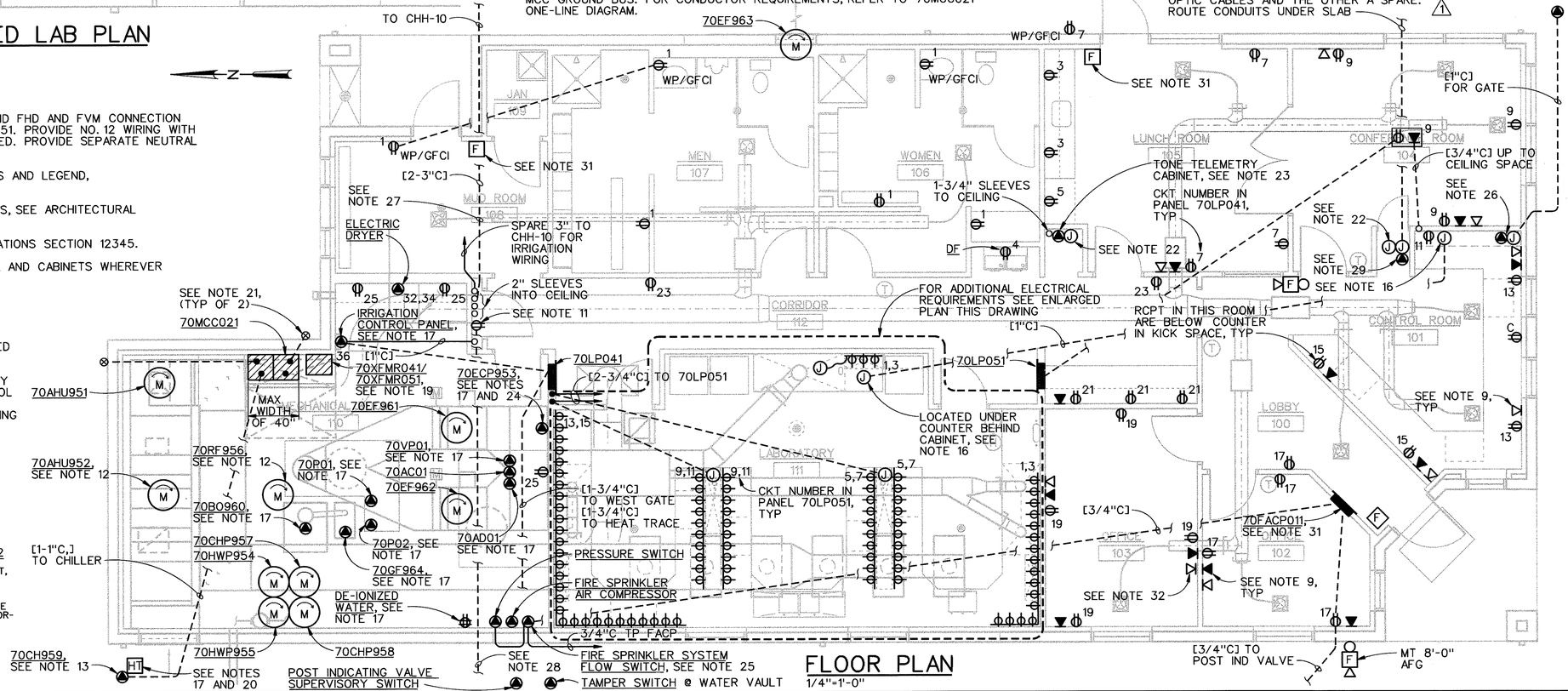
Revisions Drawn By DWC Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

NOTES (CONTINUED):

9. COMPUTER CONNECTION POINT ▽ AND TELEPHONE CONNECTION POINT ▼: PROVIDE [3/4" EMPTY] CONDUIT TO CEILING SPACE, TYP.
10. MOUNT BOTH DUPLEX RECEPTACLES TOGETHER IN A SINGLE TWO-GANG BOX WITH A SINGLE "FOUR-PLEX" COVER PLATE.
11. MOUNT 2'-0" X 3'-0"X 3/4" (TTC ELIMINATED) PLYWOOD PER TELEPHONE UTILITY'S REQUIREMENTS.
12. VERIFY LOCATION OF EQUIPMENT WITH HVAC CONTRACTOR.
13. FOR LOCATION, SEE SITE PLAN.
14. REFER TO 70MCC021 DIAGRAM DRAWING FOR CONDUIT/CONDUCTOR REQUIREMENTS ON THE HVAC EQUIPMENT. FOR EQUIPMENT LOCATION, SEE MECHANICAL DRAWINGS.
15. FOR CIRCUIT INFORMATION REFER TO THE PANEL SCHEDULES.
16. FURNISH AND INSTALL JUNCTION BOX WITH BLANK COVER. ROUTE BETWEEN BOXES A 1" CONDUIT WITH A PULL STRING.
17. ROUTE IN A 3/4" CONDUIT, 2•12 AND 1•12 GROUND CONDUCTORS FROM DEVICE TO 70LP041. FOR CIRCUIT INFORMATION, SEE PANEL SCHEDULE.
18. COORDINATE THE LOCATION OF THE MOTOR DISCONNECTS WITH THE MECHANICAL CONTRACTOR SO NO EQUIPMENT SPACE CONFLICTS EXIST.
19. STACK TRANSFORMERS AND PROVIDE ADEQUATE CLEARANCE BETWEEN FOR COOLING AND WORKING ACCESS.
20. HEAT TRACE CONTROLLER. FOR HEAT TRACE REQUIREMENTS TO CHILLER WATER LINES, SEE MECHANICAL DRAWINGS.
21. INSTALL TWO GROUNDING ELECTRODES SEPARATED BY A MINIMUM OF 10'-0". BOND BOTH ELECTRODES TOGETHER AS WELL AS TO THE MCC GROUND BUS. FOR CONDUCTOR REQUIREMENTS, REFER TO 70MCC021 ONE-LINE DIAGRAM.
22. ROUTE 1" CONDUIT WITH PULL STRING FROM EMPTY JUNCTION BOX AT TONE TELEMETRY CABINET TO JUNCTION BOX AT NETWORK CONTROL CABINET.
23. ROUTE 3/4"C WITH 2•12 AND 1•12 GROUND CONDUCTOR FROM 70LP041 TO TONE TELEMTRY CABINET. FOR CIRCUIT INFORMATION, REFER TO PANEL SCHEDULE.
24. ROUTE 1 1/2" CONDUIT WITH 9-3 CONDUCTOR TYPE 1 CABLES FROM 70ECP953 TO 70MCC021.
25. FOR CONNECTION OF SPRINKER SYSTEM ELECTRONIC FLOW AND SUPERVISORY SWITCH, SEE FIRE ALARM SYSTEM RISER DIAGRAM, DWG 95-E-14. FOR LOCATION OF POST INDICATING VALVE SUPERVISORY SWITCH, SEE YARD PIPING PLAN.
26. GATE OPERATOR SYSTEM JUNCTION BOX AND INTERIOR CONTROL STATION. FROM CONTROL STATION ROUTE 3/4"C, 4•14 TO JUNCTION BOX. ROUTE GATE OPERATOR SYSTEM POWER WIRING, 3/4" CONDUIT, 4•12, 1•12G, IN CONDUIT ABOVE CEILING TO PANEL 70LP041. FOR CIRCUIT CONTINUATION SEE GATE OPERATOR SYSTEM WIRING DETAIL 1/95-E-14.
27. RUN BELOW SLAB 2-3" CONDUITS WITH PULLWIRE FROM 70TTC TO COMMUNICATIONS HANDHOLE. ⚠1
28. CAST IN PLACE 4" CONDUIT WITH PULLWIRE TO UTILITY POLE. FOR LOCATION, SEE YARD PIPING PLAN.
29. ROUTE 3/4" CONDUIT WITH 2•12 AND 1•12 GROUND CONDUCTORS FROM NETWORK CONTROL CABINET TO PANEL 70LP051.
30. ROUTE 2-2" SPARE CONDUITS, WITH PULL STRING, FROM THE POWER HAND HOLE TO THE MCC. ⚠1
31. FOR ACTUAL INSTALLATION, SEE FIRE ALARM DRAWINGS.
32. COMPUTER OUTLETS ALONG SIDE OF PHONE ARE IN A COMMON GANG JUNCTION BOX.



FLOOR PLAN

1/4"=1'-0"

NO.	DATE	REVISION	DWC	TE/ JBL
	3/02	RECORD DRAWING	ERB	RCF
⚠1	1/00	ADDENDUM NO. 1	BY	APVD

DSGN W PERON, R COLLETTE
DR S NELSON
CHK J TURNER
APVD RC FRANKENFIELD

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1". IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL

CITY OF TROUTDALE, OREGON

TROUTDALE WATER POLLUTION CONTROL FACILITY

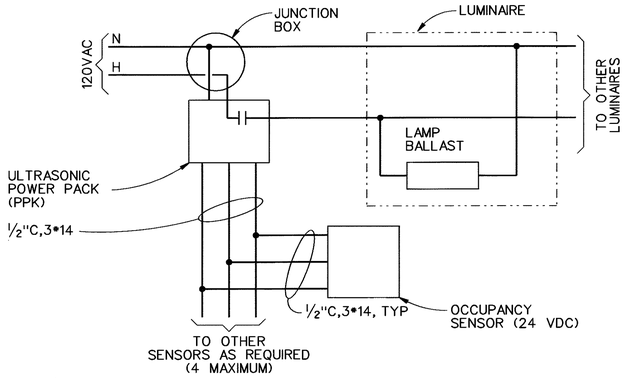
ADMINISTRATION BUILDING

ELECTRICAL POWER PLAN AND ENLARGED LAB PLAN

SHEET	127
DWG	70-E-131
DATE	DEC 1999
PROJ	151252

FILENAME: tr70e131.dlv PLOT DATE: 14-MAR-2002 PLOT TIME: 11:49:25

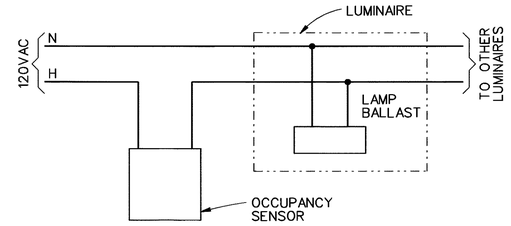
REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL



TYPICAL ULTRASONIC OCCUPANCY SENSOR WIRING DIAGRAM

(USE WIRING DIAGRAM ALSO WHEN MORE THAN ONE CEILING MOUNTED INFRARED SENSOR IS REQUIRED)

SYMBOL: US



TYPICAL INFRARED OCCUPANCY SENSOR WIRING DIAGRAM

(WHEN SINGLE SENSOR IS REQUIRED)

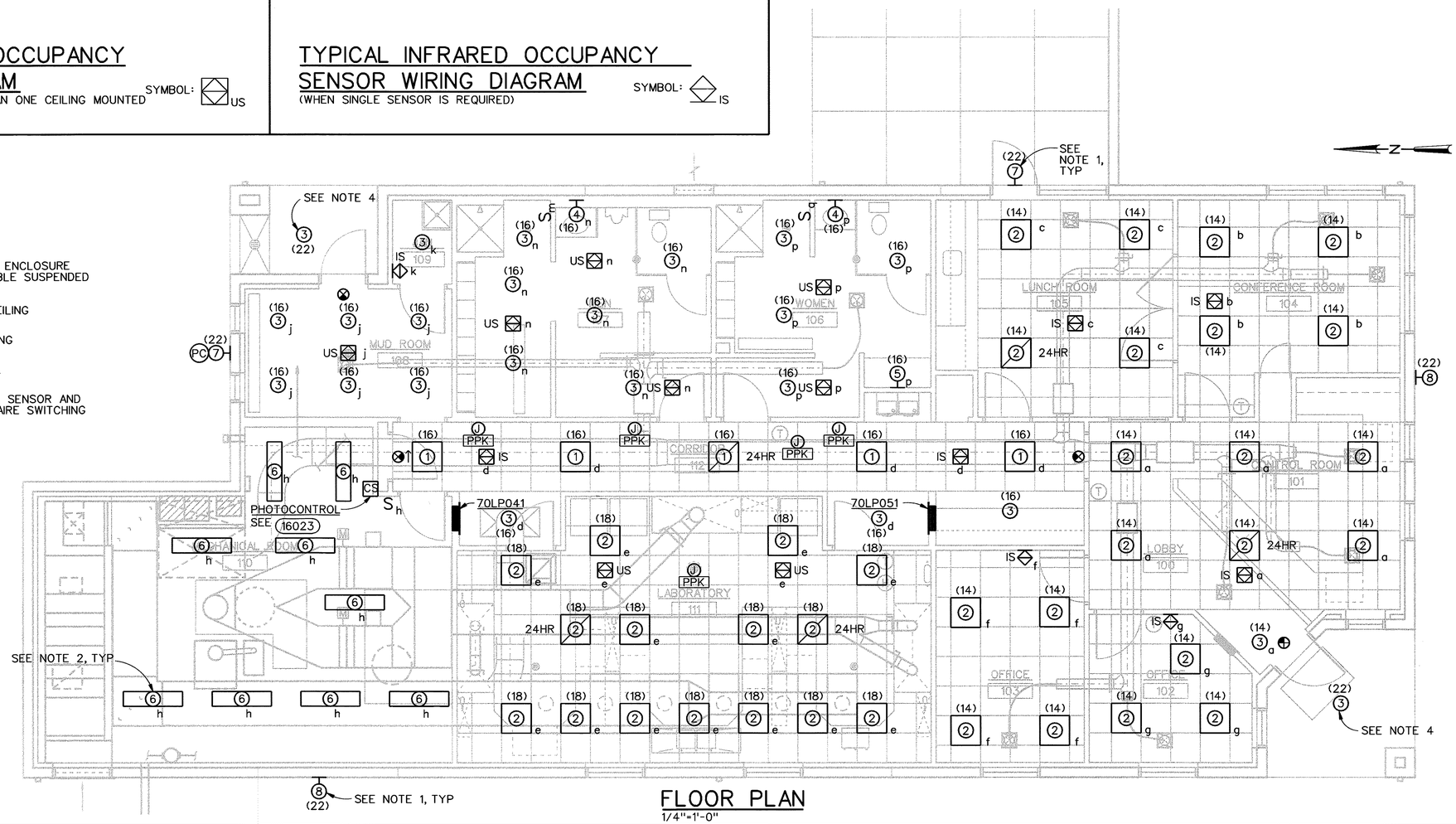
SYMBOL: IS

NOTES:

1. FOR LUMINAIRE '7' AND '8' MOUNTING LOCATION SEE ARCHITECTURAL ELEVATION. ROUTE CIRCUIT VIA PHOTOCONTROL SWITCH.
2. FOR LUMINAIRES PROVIDE STRUCTURAL CHANNEL AS REQUIRED TO MOUNT LUMINAIRES UNDER HVAC DUCT. CONTRACTOR TO SIZE SUPPORT CHANNEL AND SUPPORT ROD ASSEMBLY FOR LUMINAIRE MOUNTING. CONTRACTOR SHALL SUBMIT SUPPORT CHANNEL DESIGN AND CALCULATIONS FOR APPROVAL BY ENGINEER. WHERE AVAILABLE MOUNTING ASSEMBLY MAY BE USED IN CONJUNCTION WITH HVAC DUCT SUPPORTS. COORDINATE WITH HVAC.
3. FOR LIGHTING CIRCUIT INFORMATION , SEE PANEL 70LP041 AND 70LP051 SCHEDULES. FOR LIGHTING CIRCUITS IN THIS FACILITY, FURNISH AND INSTALL 2•12 AN 1•12 GROUND CONDUCTOR IN 3/4" CONDUIT FROM DEVICE TO NEXT DEVICE OR PANEL. COMBINE CIRCUITS WHERE PRACTICAL AND DERATE CONDUCTORS AS REQUIRED BY NEC.
4. ROUTE BUILDING EXTERIOR LIGHTING CIRCUIT VIA PHOTOCONTROL SWITCH.

LEGEND

(J) PPK	POWER PACK IN NEMA 1 ENCLOSURE MOUNT ABOVE ACCESSIBLE SUSPENDED CEILING
US a	ULTRASONIC SENSOR, CEILING
IS a	INFRARED SENSOR, CEILING
IS a	INFRARED SENSOR, WALL
a	SUBSCRIPT LETTERS AT SENSOR AND SWITCH INDICATE LUMINAIRE SWITCHING



FLOOR PLAN

1/4"=1'-0"

RECORD DRAWINGS

Revisions Drawn By MSM Date MARCH, 2002

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

FOR SIGNATURES AND SEALS REFER TO ORIGINAL DRAWINGS DATED DECEMBER 1999

DSGN W PERON, R COLLETTE						VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR W PERON						
CHK J TURNER	3/02	RECORD DRAWING	MSM	TE/JBL		
APVD RC FRANKENFIELD	NO.	DATE	REVISION	BY	APVD	

CH2MHILL

CITY OF TROUTDALE, OREGON

TROUTDALE WATER POLLUTION CONTROL FACILITY

ADMINISTRATION BUILDING

ELECTRICAL LIGHTING PLAN

SHEET	128
DWG	70-E-135
DATE	DEC 1999
PROJ	151252

FILENAME: tr70e135.dlv PLOT DATE: 14-MAR-2002 PLOT TIME: 11:49:45

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL. ©CH2M HILL

REUSE OF DOCUMENTS: