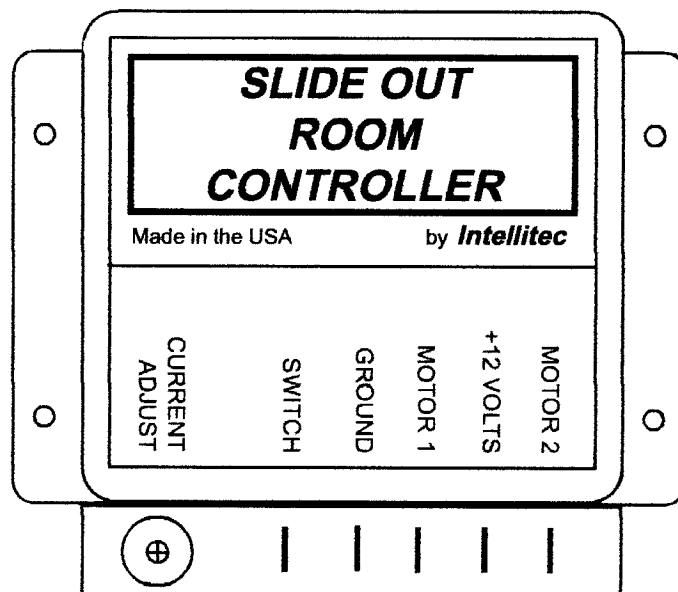


MONOPLEX SLIDE OUT CONTROLLER

SERVICE MANUAL



Intellitec Part Number: 00-00277-100

Note: The MONOPLEX SLIDE OUT CONTROLLER is a power switching controller used to operate a slide out room in an RV. Power from the battery of the vehicle is fed to this control. Inadvertent shorts at this box could result in damage and/or injury.

All servicing of this box should be done only by a qualified Service Technician.

Tools required: Low current test light, DC voltmeter

INTELLITEC

131 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
630-268-0010 / 1-800-251-2408

MONOPLEX SLIDE OUT CONTROLLER

Typical Installation

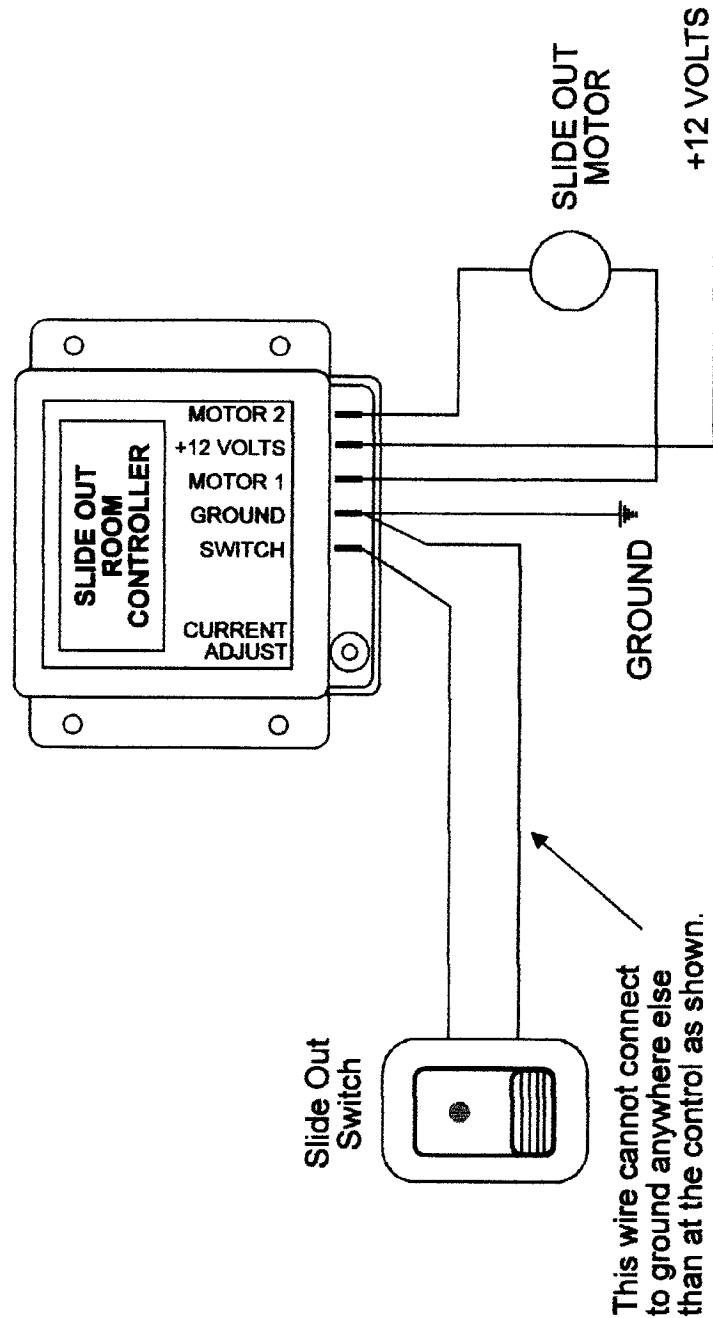


FIGURE 1

INTELLITEC

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630-268-0010 / 1-800-251-2408

MONOPLEX SLIDE OUT CONTROLLER

PRODUCT DESCRIPTION

The MONOPLEX Slide Out Room controller is designed to control the operation of a slide out room electrical mechanism. It automatically stops the slide out when it reaches its inner or outer limit, by sensing the current drawn by the motor. This eliminates the need for the owner to hold the switch in the ON position for the entire extend/retract cycle, or the installation of limit switches and associated wiring.

Typically, the control unit is mounted near the motor mechanism to minimize the length of the heavy gauge wire used. The switch wires are run from the controller to the wall mounted switch. One of these wires is the control lead and the other is ground.

To operate the room, momentarily press the button on the switch. The indicator will come on and the slide will move. When the slide reaches its end of travel, the controller will sense the rise in current and switch off the power to the motor and indicator light. To move the room back, momentarily press the button to start the room in the opposite direction. If, at any time during the operation of the slide out, the owner wants to stop the room, he can push the button and the it will stop. Pressing the button again will start the room in the opposite direction.

To prevent damage to the mechanism, the controller "remembers" the direction the room traveled the last time it moved, even if the power is removed.

HOW IT WORKS

The Slide Out Controller switches power to the motor of the mechanism with two double-pole, double-throw relays (See Figure 1). Normally, both leads of the motor are connected to ground, through the relays. When the button is pressed, one of the relays is closed, connecting that motor lead to +12 volts. Motor current is run through a small (0.02 ohms) resistor in the ground lead to sense current. When the motor is started, the controller ignores the current for approximately two seconds to allow for the start-up surge. It then begins to sense the current by measuring the voltage drop across the sense resistor. When this voltage exceeds the preset value, the controller shuts off the motor. The value of current can be adjusted by the control on the edge of the board. The range of this control is between 4 and 20 Amps. The best setting for this control is the *lowest* value required to move the room in and out, without nuisance shut down.

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MONOPLEX SLIDE OUT CONTROLLER

TROUBLE SHOOTING

PROBLEM

POSSIBLE CAUSE/SOLUTION

Room won't slide out, indicator not on.

+12 volts not available. Check for +12 volts at controller. If the voltage is not present, check fuse/breaker feeding controller.

Check for voltage on switch line. Should be approximately 2.5 volts with the controller off (5 volts with the motor running). If voltage is less than 2.5 volts, remove wire from controller and check voltage on the controller. If it is now 2.5 volts, switch wire is shorted to ground. Locate switch wire problem.

Controller failed, replace controller.

Room won't slide out, indicator on.

Motor bad. Check voltage on motor, should be 12 volts with indicator on.

Controller failed, replace controller.

Room fails to fully extend or retract.

Current adjustment incorrect. Adjust current trip level to higher value.

Mechanics of mechanism binding or dragging. Repair mechanics.

Replace controller

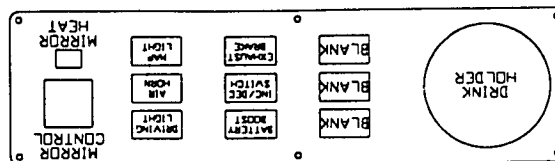
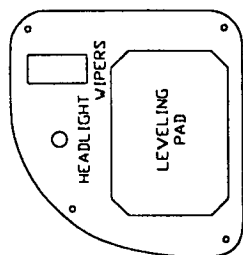
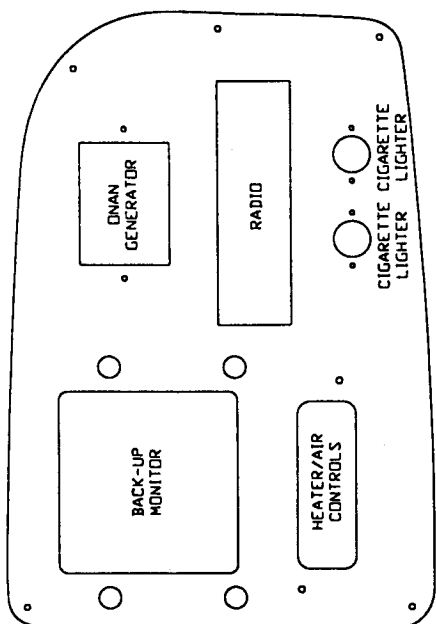
Control fails to turn off at end of travel

Current trip level set too high. Readjust current level.

Replace controller.

INTELLITEC

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LOMBARD, ILLINOIS 60148
630-268-0010 / 1-800-251-2408

[illegible]

Revisions



TRAVEL SUPREME
P.O. BOX 610
WAKARUSA, IN 46573

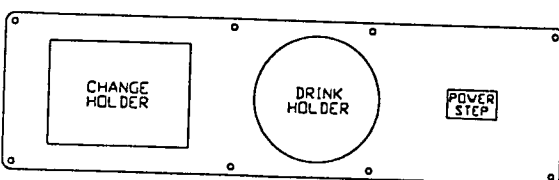
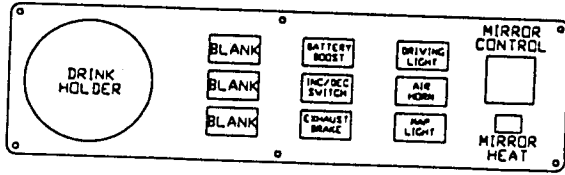
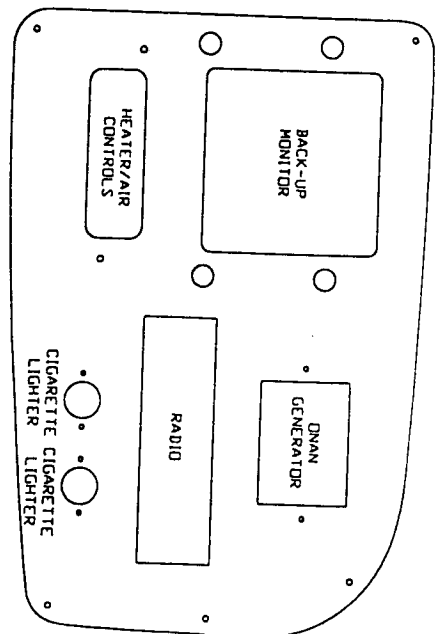
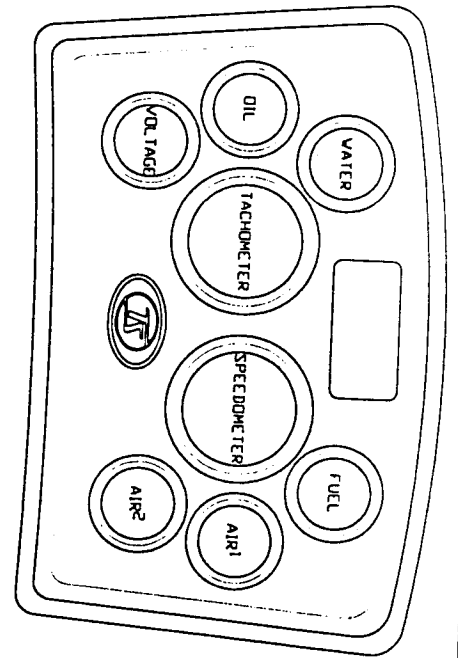
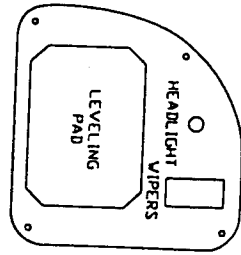
Model: T.SUPREME DIESEL PUSHER

Title: DASH (36' UNITS)

Drawn By: BRETT	Scale: DNS
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Date:	3/20/01	Sheet No. 1 OF 1
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I.D. No. DPUSHER/HANDBOOK/36DASH



Date:

Revisions

3/26 ADDED PASSENGER'S CONSOLE



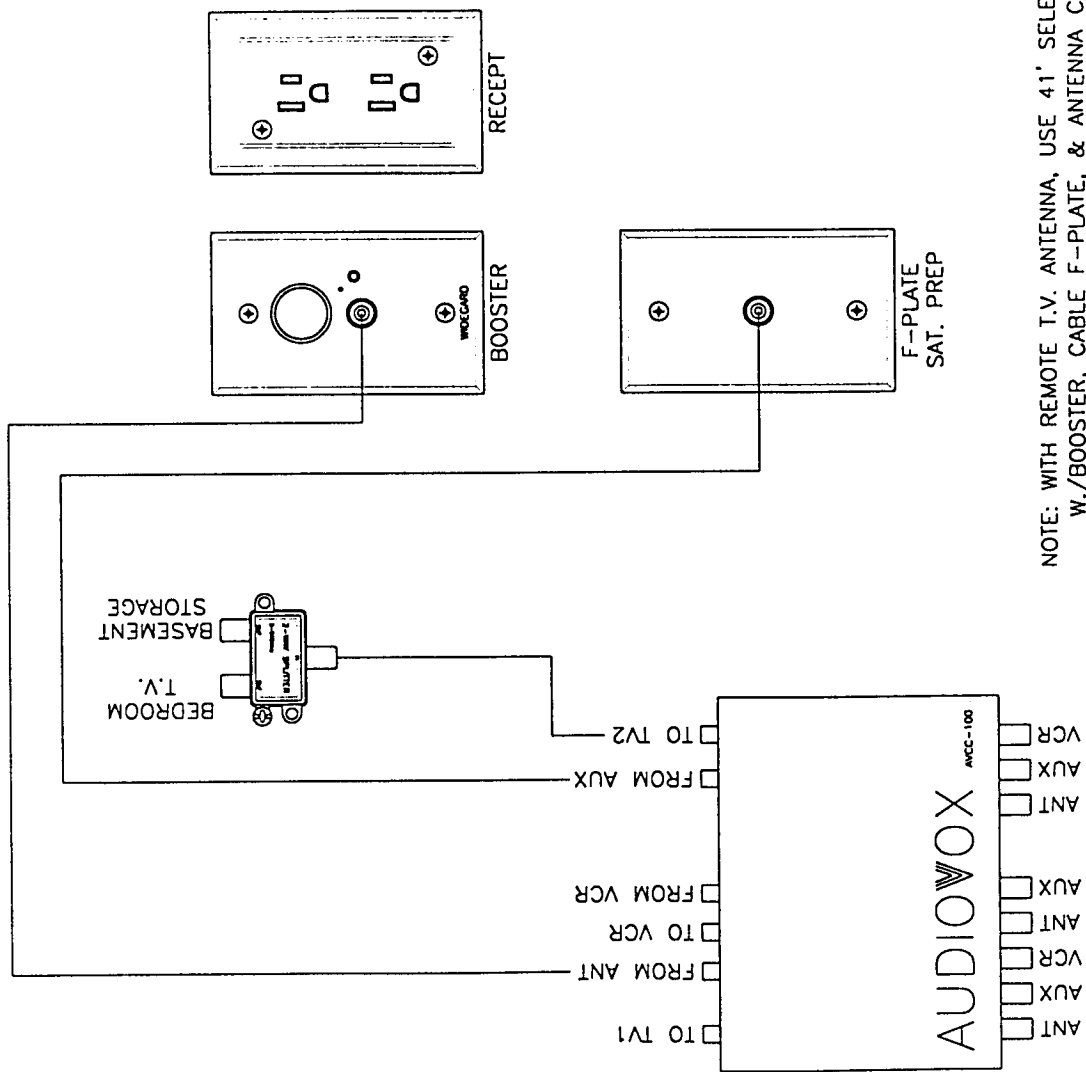
TRAVEL SUPREME
P.O. BOX 610

Model: T-SUPREME DIESEL PUSHER

Title: DASH (36 UNITS)

Drawn By: BRETT Scale: DNS

Date: 3/20/01 Sheet No. 1 Of 1



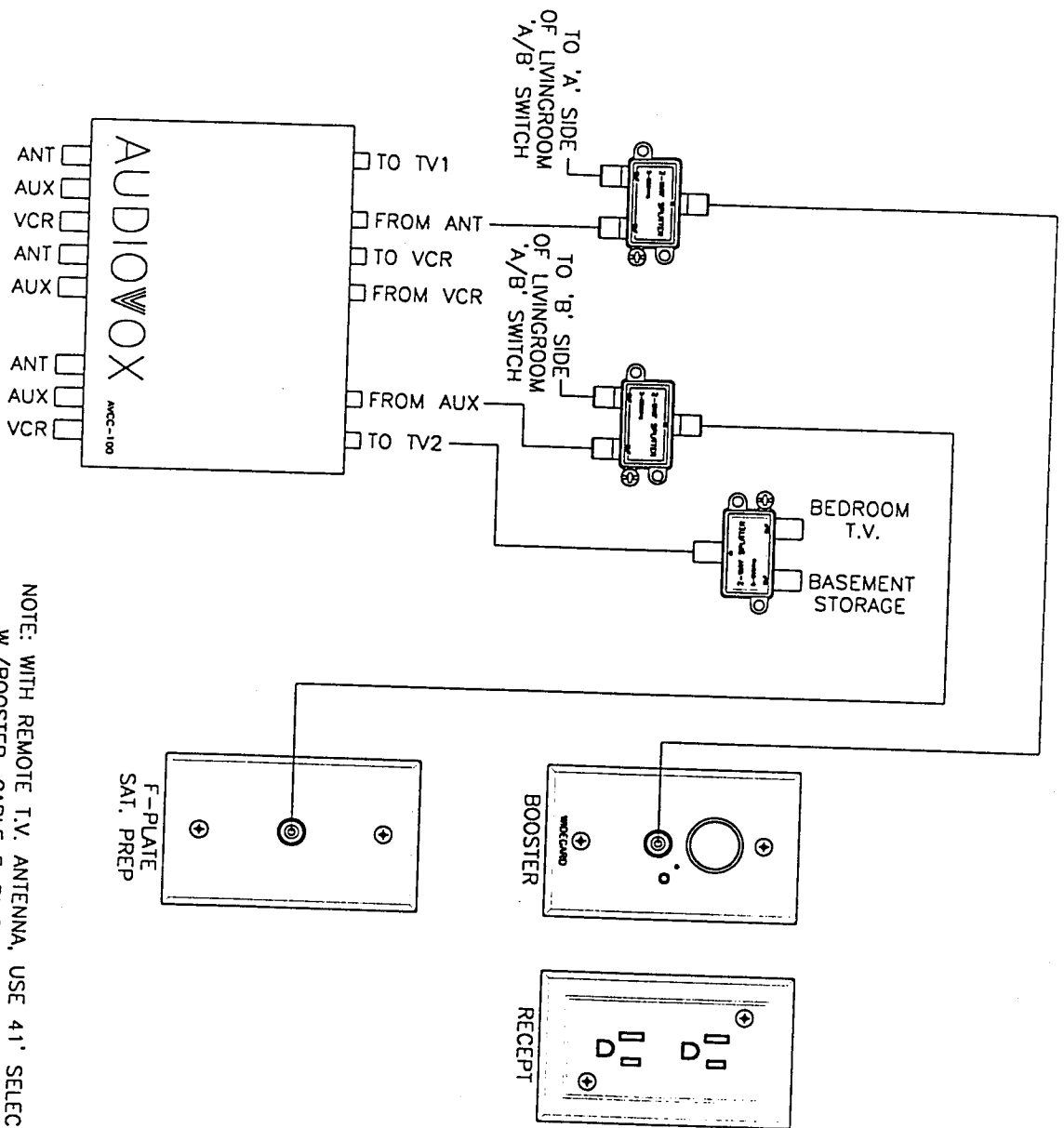
NOTE: WITH REMOTE T.V. ANTENNA, USE 41' SELECT DIAGRAM
W./BOOSTER, CABLE F-PLATE, & ANTENNA CONTROL

Revisions

Date:

Model:	T.SUPREME DIESEL PUSHER 36" THRU 40" UNITS
Title:	STANDARD SURROUND SOUND W./OUT LIVINGROOM T.V.
Drawn By:	BRETT
Date:	3/16/00
Scale:	DNS
Sheet No.	1 OF 3
I.D. No.	DPUSHER/HANDBOOK/SURSND

TRAVEL SUPREME
P.O. BOX 610
WAKARUSA, IN 46573



NOTE: WITH REMOTE T.V. ANTENNA, USE 41' SELECT DIAGRAM
W./BOOSTER, CABLE F-PLATE, & ANTENNA CONTROL

Date:

Revisions



TRAVEL SUPREME
P.O. BOX 610
WAKARUSA, IN 46573

Model: 1. SUPREME DIESEL PUSHER
36' THRU 40' UNITS

Title: STANDARD SURROUND SOUND
WITH LIVINGROOM T.V.

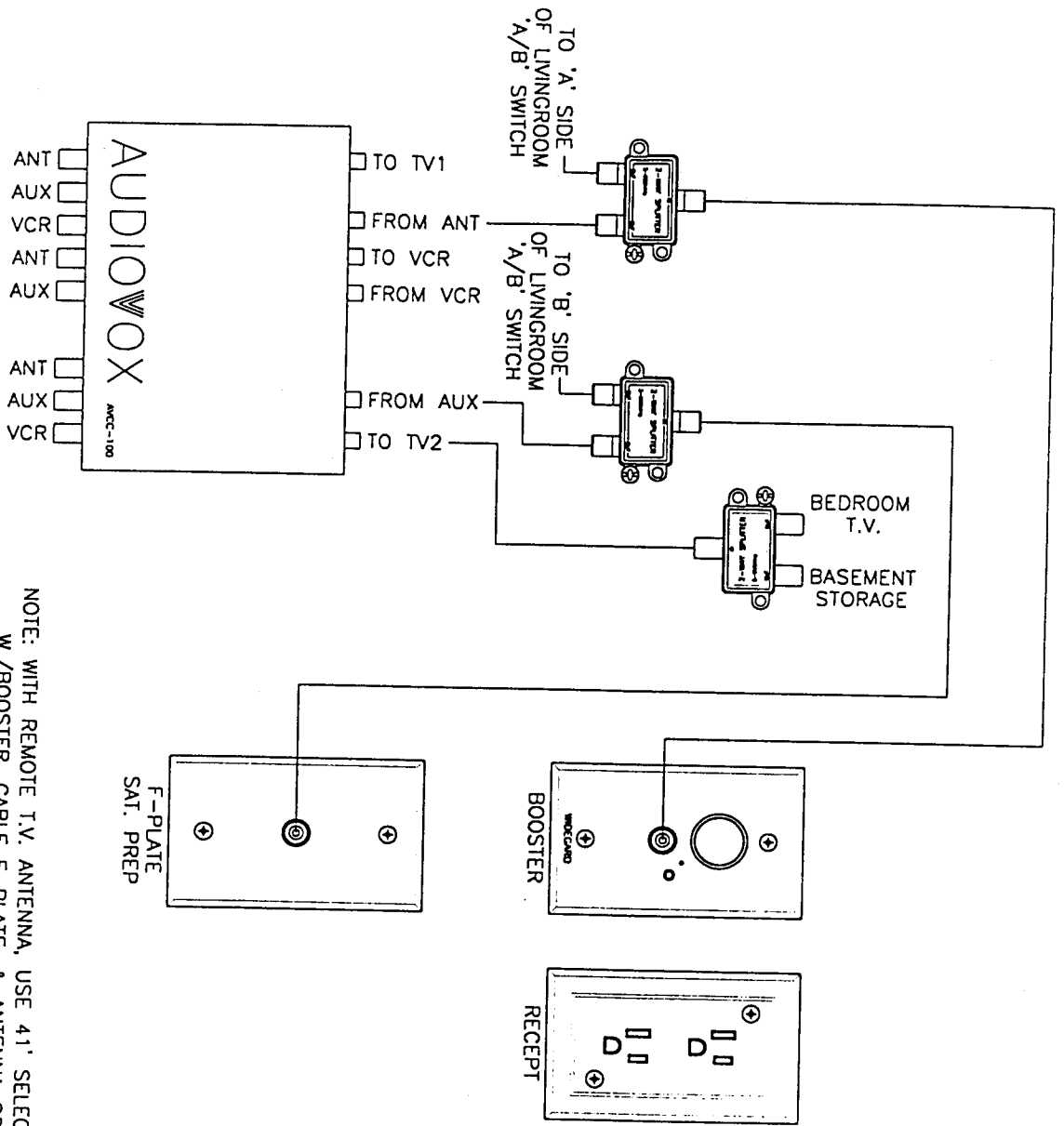
Drawn By: BRETT Scale: DMS

Date: 3/16/00 Sheet No. 2 OF 3

I.D. No. DPUSHER/HANDBOOK/SURSD



Revisions

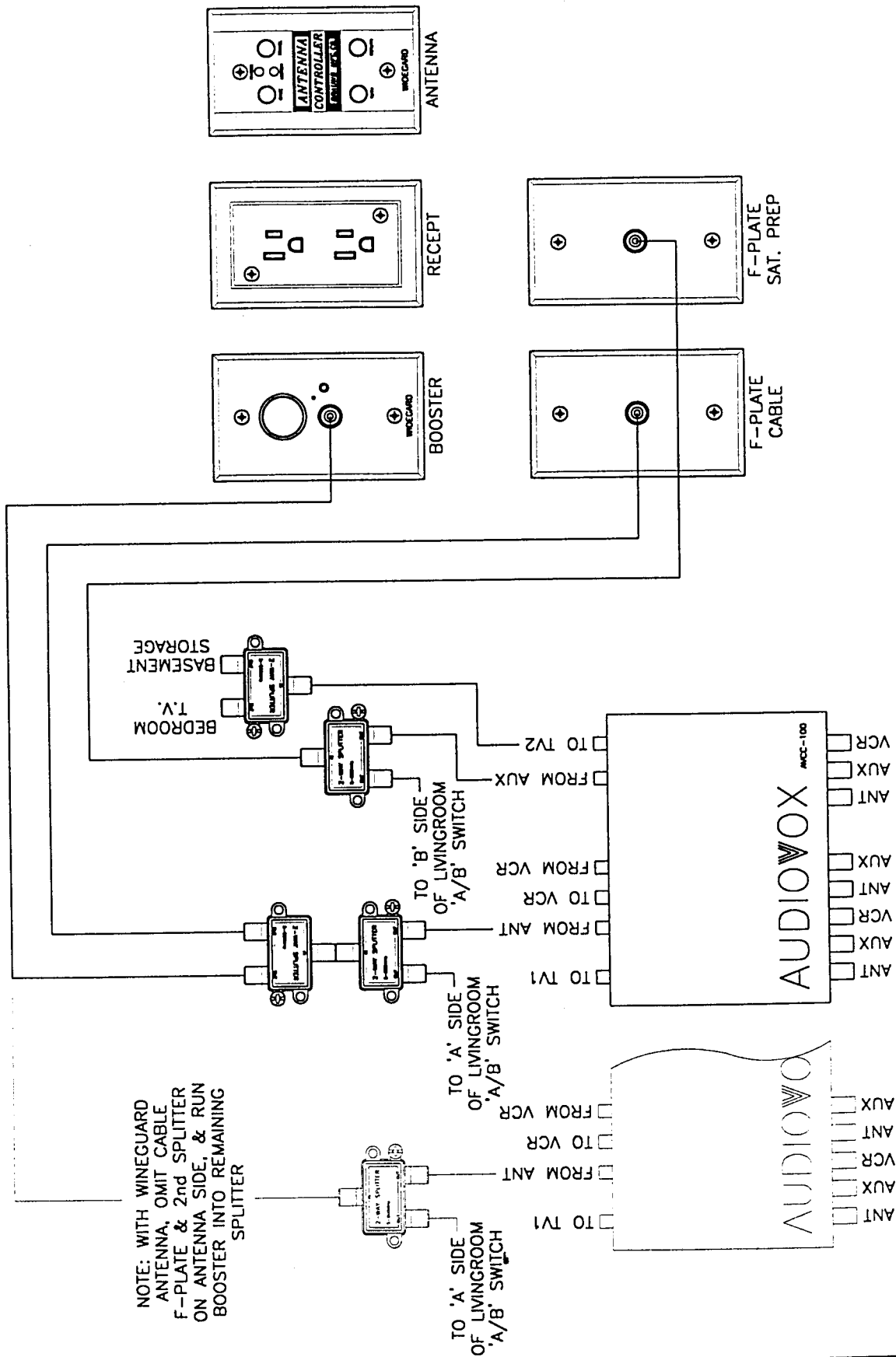


Date:	Revisions



TRAVEL SUPREME
P.O. BOX 610
WAKARUSA, IN 46573

Model:	T.SUPREME DIESEL PUSHER 36 THRU 40' UNITS		
Title:	STANDARD SURROUND SOUND WITH LIVINGROOM T.V.		
Drawn By:	BRETT	Scale:	DNS
Date:	3/16/00	Sheet No.	2 OF 3
I.D. No. DPUSHER/HANDBOOK/SURSD			



Revisions

Date:

Model: T.SUPREME DIESEL PUSHER 41 SELECT

Title: SURROUND SOUND

Drawn By: BRETT Scale: DNS

Date: 3/16/00 Sheet No. 3 OF 3

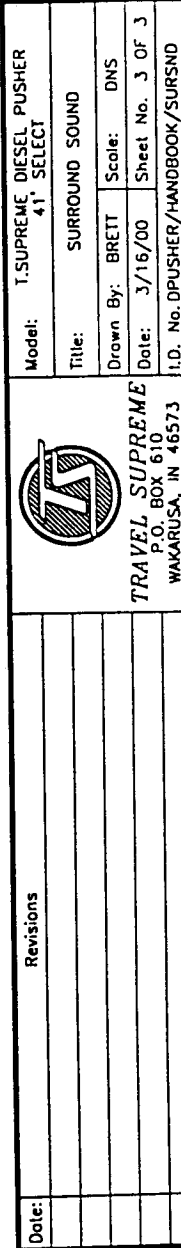
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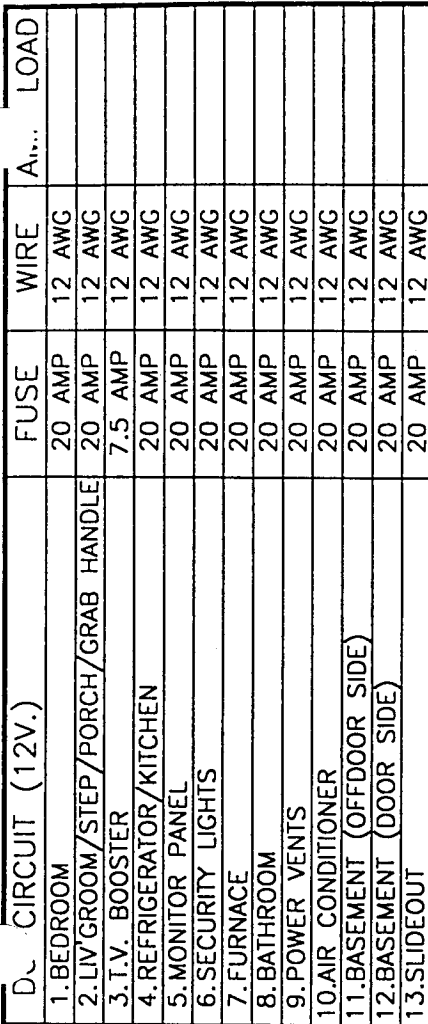
TRAVEL SUPREME
P.O. BOX 610
WAKARUSA, IN 46573



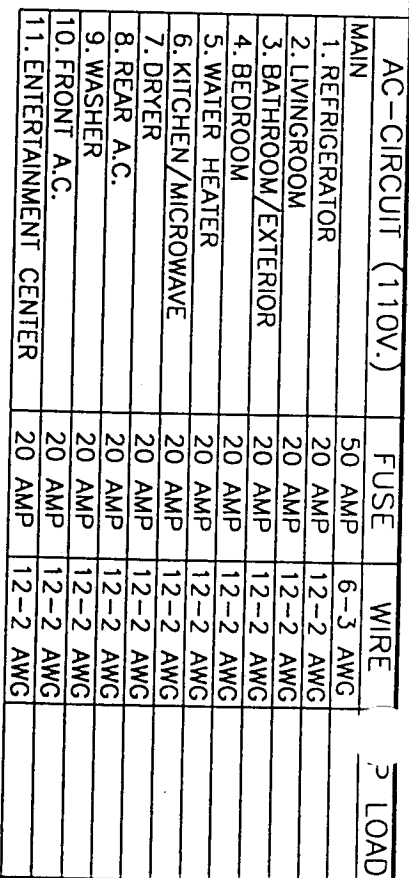
TRAVEL SUPREME
P.O. BOX 610
WAKARUSA, IN 46573



NOTE: WITH WINEGUARD
ANTENNA, OMIT CABLE
F-PLATE & 2nd SPLITTER
ON ANTENNA SIDE, & RUN
BOOSTER INTO REMAINING
SPLITTER



1



	
TRAVEL SUPREME P.O. BOX 606 WAKARUSA, IN 46573	
TRAVEL SUPREME DP'S	
Title:	110 VOLT PANEL(50 AMP)
Drawn By:	BRETT
Date:	4/19/00
I.D. No./DPUsher/CODES/BB	Scale: 1 1/2"=1'-0" Sheet No. 2 Of 2

DC-CIRCUIT (12V.)	FUSE	WIRE/COLOR	LOAD
A. BEDROOM	20 AMP	12 AWG/PURPLE	
B. LIV'GROOM/STEP/PORCH/GRAB HANDLE	20 AMP	12 AWG/RED	
C. T.V. BOOSTER	7.5 AMP	12 AWG/BLACK	
D. REFRIGERATOR/KITCHEN	20 AMP	12 AWG/GREEN	
E. MONITOR PANEL	20 AMP	12 AWG/BLACK	
F. SECURITY LIGHTS	20 AMP	12 AWG/BLUE	
G. FURNACE	20 AMP	12 AWG/BLACK	
H. BATHROOM	20 AMP	12 AWG/YELLOW	
J. POWER VENTS	20 AMP	12 AWG/BLACK	
K. AIR CONDITIONER	20 AMP	12 AWG/BLACK	
L. BASEMENT (OFFDOOR SIDE)	20 AMP	12 AWG/YELLOW	
M. BASEMENT (DOOR SIDE)	20 AMP	12 AWG/YELLOW	
N. SLIDEOUT	20 AMP	12 AWG/GREEN	

AC-CIRCUIT (110V.)	FUSE	WIRE	LOAD
MAIN	50 AMP	6-3 AWG	
1. REFRIGERATOR	20 AMP	12-2 AWG	
2. LIVINGROOM	20 AMP	12-2 AWG	
3. BATHROOM/EXTERIOR	20 AMP	12-2 AWG	
4. BEDROOM	20 AMP	12-2 AWG	
5. WATER HEATER	20 AMP	12-2 AWG	
6. KITCHEN/MICROWAVE	20 AMP	12-2 AWG	
7. DRYER	20 AMP	12-2 AWG	
8. REAR A.C.	20 AMP	12-2 AWG	
9. WASHER	20 AMP	12-2 AWG	
10. FRONT A.C.	20 AMP	12-2 AWG	
11. ENTERTAINMENT CENTER	20 AMP	12-2 AWG	

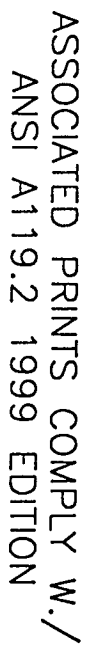
- NOTE:
1. MINIMUM LENGTH OF EXPOSED POWER CORD - 23'.
 2. WIRE 12 AWG. COPPER NM-NMC TYPE "ROMEX" UNLESS NOTED.
 3. LOAD CENTER MAY BE PART OF A COMBINED 120V./12V.
 4. AIR COND. CIRCUIT BREAKER "HACR" TYPE.

SYMBOLS

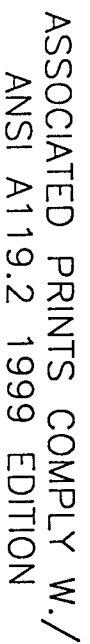
Ⓢ - 110 VOLT SWITCH	◀ - STEREO
○ - 110 VOLT LIGHT	P - WATER PUMP
○ - DBL 110 VOLT LIGHT	RH - POWER RANGE HOOD
⊖ - 110 VOLT RECEPT	BB - 110 VOLT BREAKER BOX
⊖ - 110 VOLT RECEPT w/GFI	12 - 12 VOLT FUSE BLOCK
Ⓢ - 12 VOLT SWITCH	⚡ - CONVERTOR
Ⓢ - 12 VOLT COURTESY LIGHT	BT - BATTERY
STRIP - 12 VOLT STRIP LIGHT	MP - MONITOR PANEL
⊖ - 12 VOLT LIGHT	PV - FANTASTIC VENT
⊖ - DBL 12 VOLT LIGHT	F - FURNACE
⊖ - 12 VOLT FLOURESCENT LIGHT	WH - WATER HEATER
⊕ - SPEAKER	AC - AIR CONDITIONER
⚡ - TV JACK	T - THERMOSTAT

ASSOCIATED PRINTS COMPLY W./
ANSI A119.2 1999 EDITION

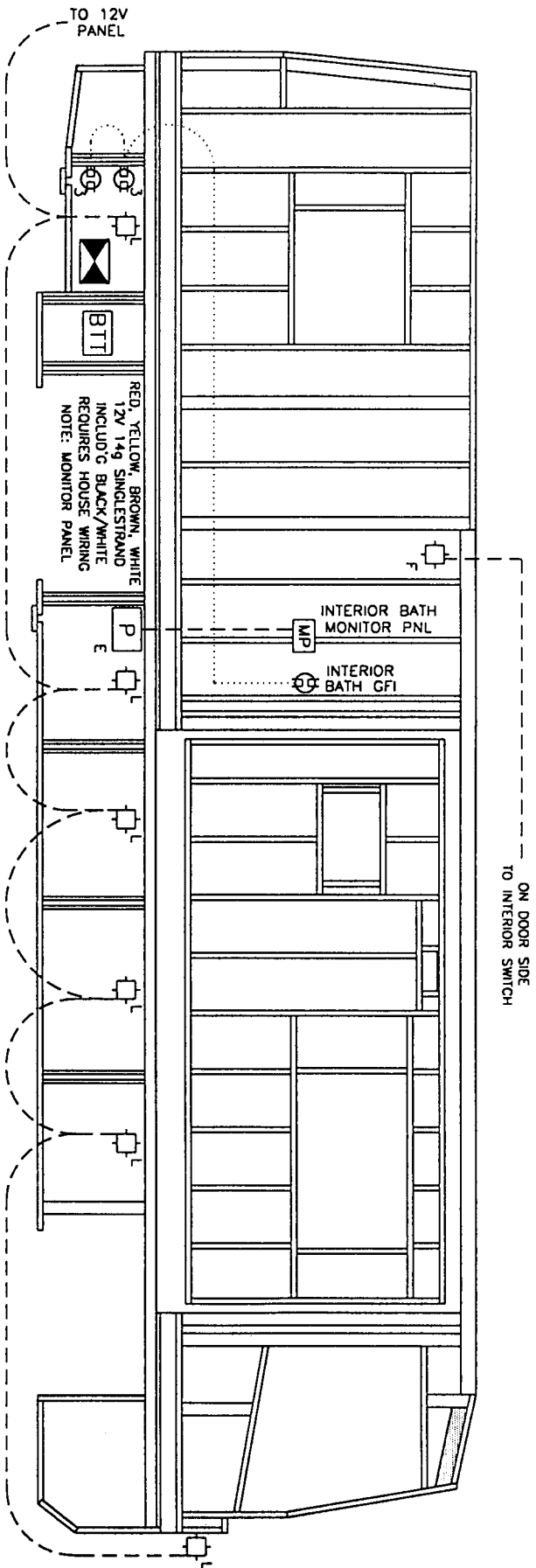
Date:	Revisions	 TRAVEL SUPREME P.O. BOX 610 WAKARUSA, IN 46573	Model:	TRAVEL SUPREME DP'S		
5/9	MOVED 110V FRONT A.C. TO 10 & DRYER TO 7		Title:	ELECTRICAL SYMBOLS/CHARTS		
			Drawn By:	BRETT	Scale:	DNS
			Date:	4/20/00	Sheet No.	1 Of 1
			I.D. No. DPUSHER/CODES/CHARTS			



TRAVEL SUPREME
P.O. BOX 610
WAKARUSA, IN 46573



		TRAVEL SUPREME P.O. BOX 610 WAKARUSA, IN 46573	
Model:		36" DS01-0P	
Title: INTERIOR ELECTRICAL DOOR SIDE			
Drawn By: BRETT	Scale: DNS		
Date: 4/19/00	Sheet No. EP36DS01	3 of 3	
I.D. No. DPUSHER/CODES/ELECT/DP36DS01			

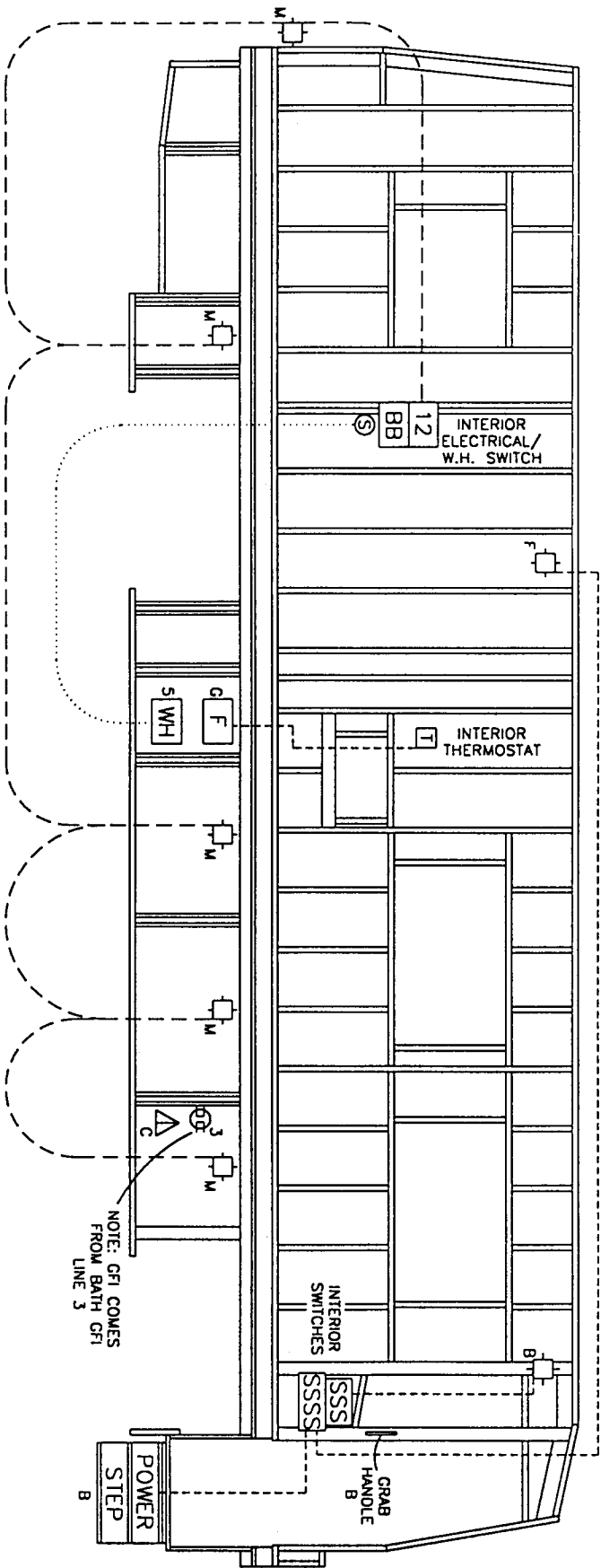


ASSOCIATED PRINTS COMPLY W./
ANSI A119.2 1999 EDITION

Revisions		Model: 36' KS01-DP	
Date:		Title: EXTERIOR ELECTRICAL OFFDOOR SIDE	
4/25	ADD FRONT COMPARTMENT LIGHT	Drawn By: BRETT	Scale: DNS
		Date: 4/11/00	Sheet No. 2 of 3
		I.O. No. DPUSHER/CODES/ELECT/DP36KS01	

----- DENOTES 12V
... DENOTES 110V

TRAVEL SUPREME
P.O. BOX 610
WAKARUSA, IN 46573



ASSOCIATED PRINTS COMPLY W./
ANSI A119.2 1999 EDITION

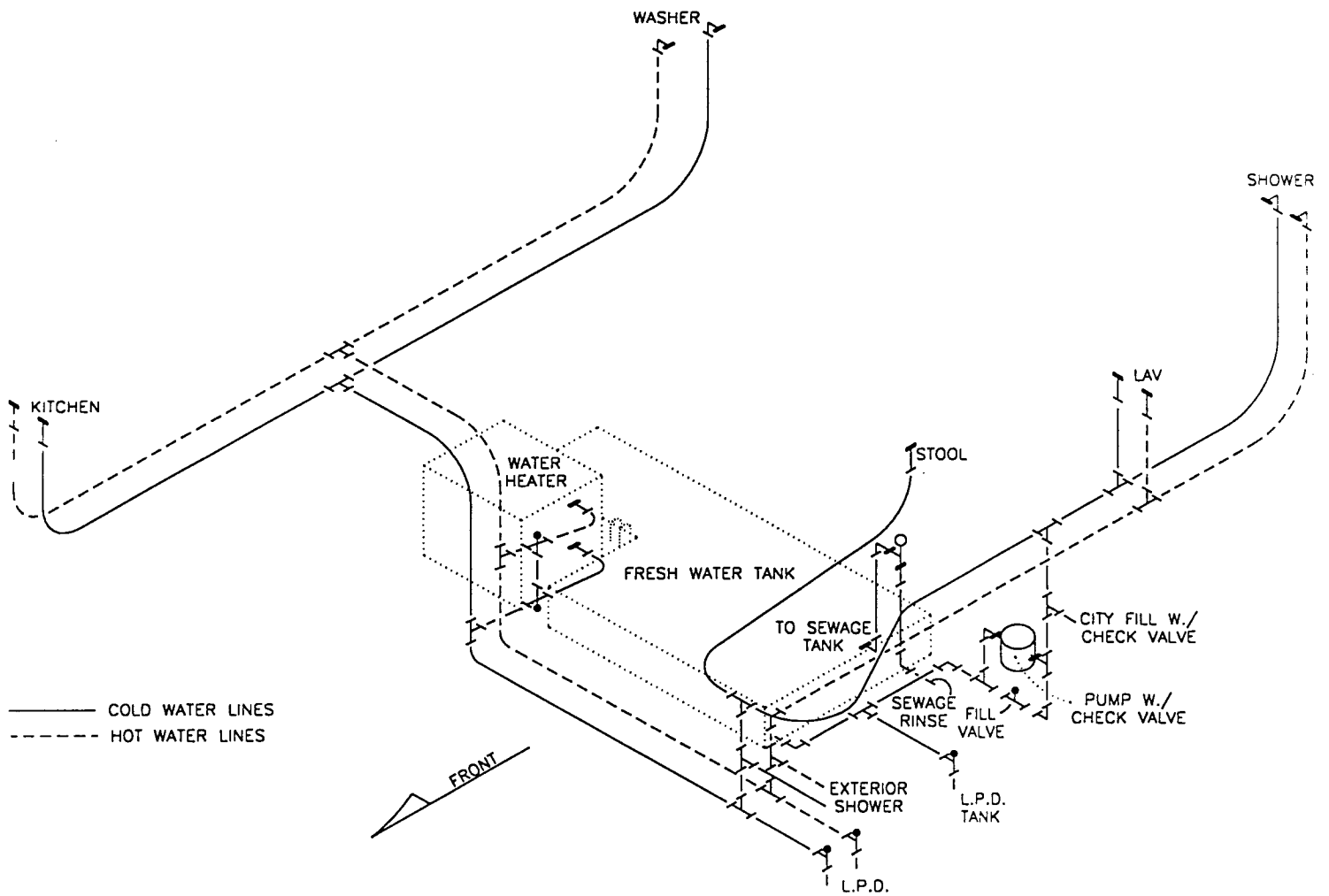
Revisions		Model: 36' KS01-0P	
Date:		Title: INTERIOR ELECTRICAL DOOR SIDE	
11/27	Moved RECEPT & T.V. JACK TO FRONT COMPARTMENT	Drawn By: BRETT	Scale: DNS
8/10	REVISED W.H./FURNACE SET-UP	Date: 4/11/00	Sheet No. 3 OF 3
4/25	ADDED REAR COMPARTMENT LIGHT	I.D. No. DPUSHER/CODES/ELECT/DP36KS01	



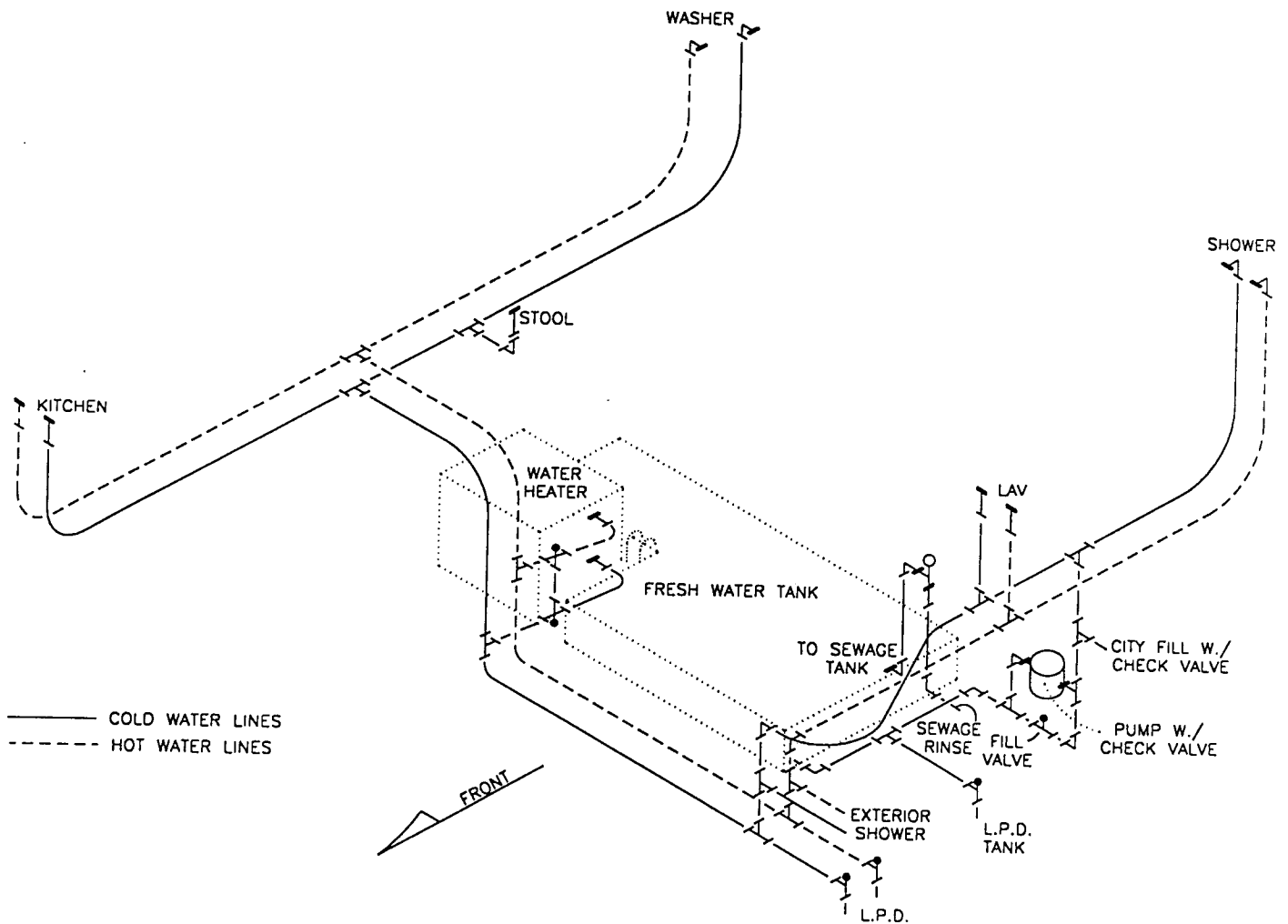
TRAVEL SUPREME
P.O. BOX 610
WAKARUSA, IN 46573

DENOTES 12V
DENOTES 110V

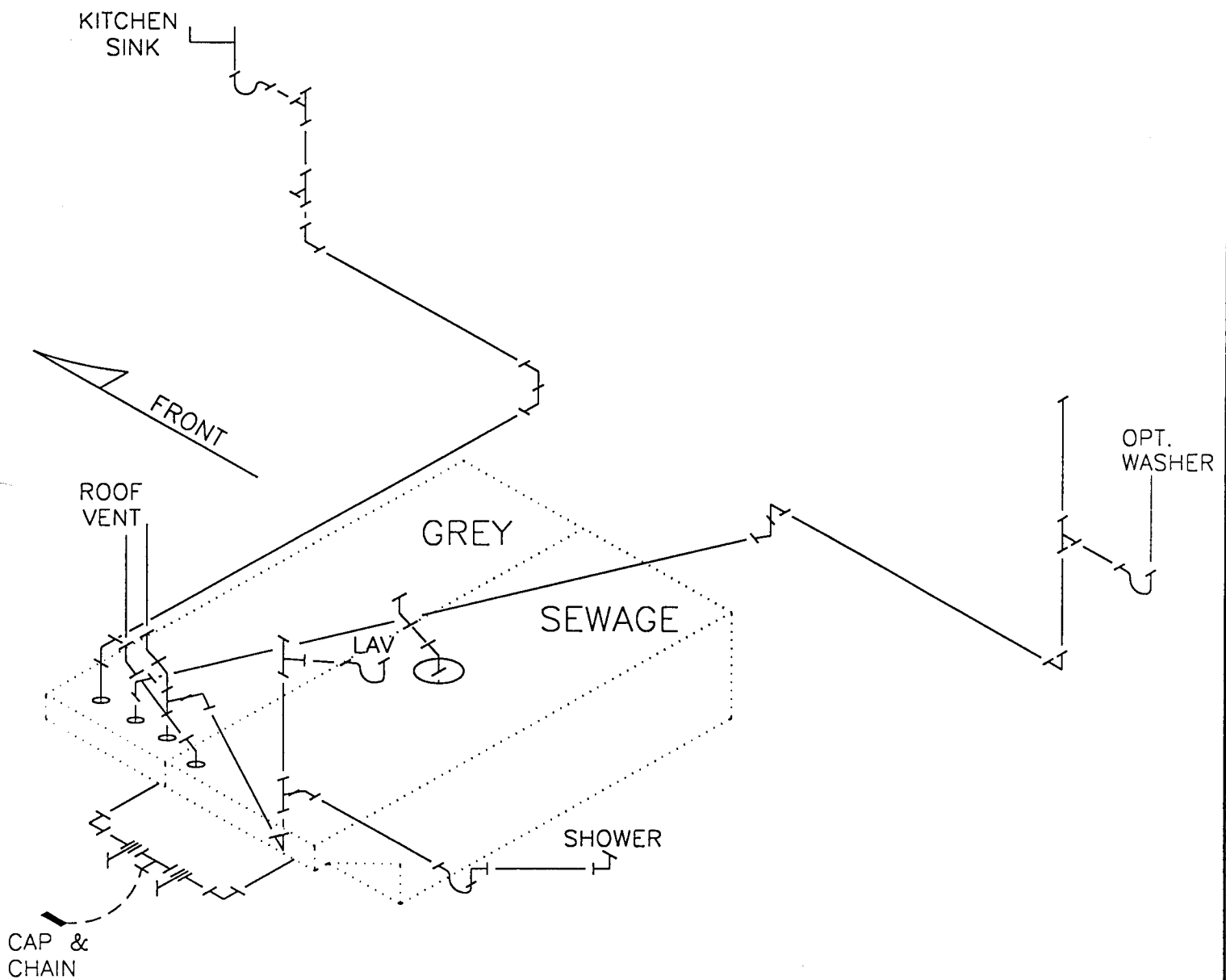
36' DS01-DP WATER LINE DIAGRAM



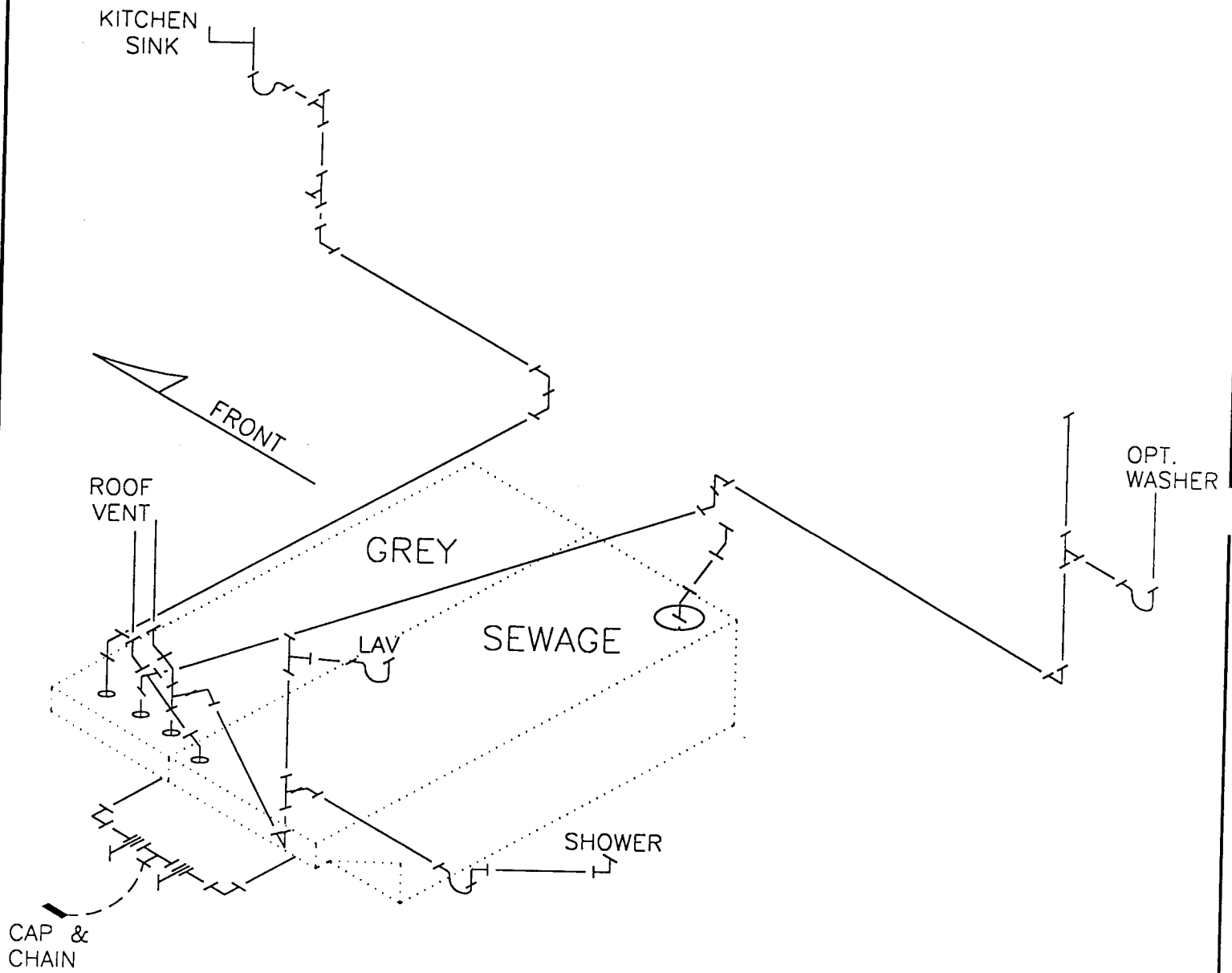
36' DSO1-DP W./BATH OPTION #2 WATER LINE DIAGRAM



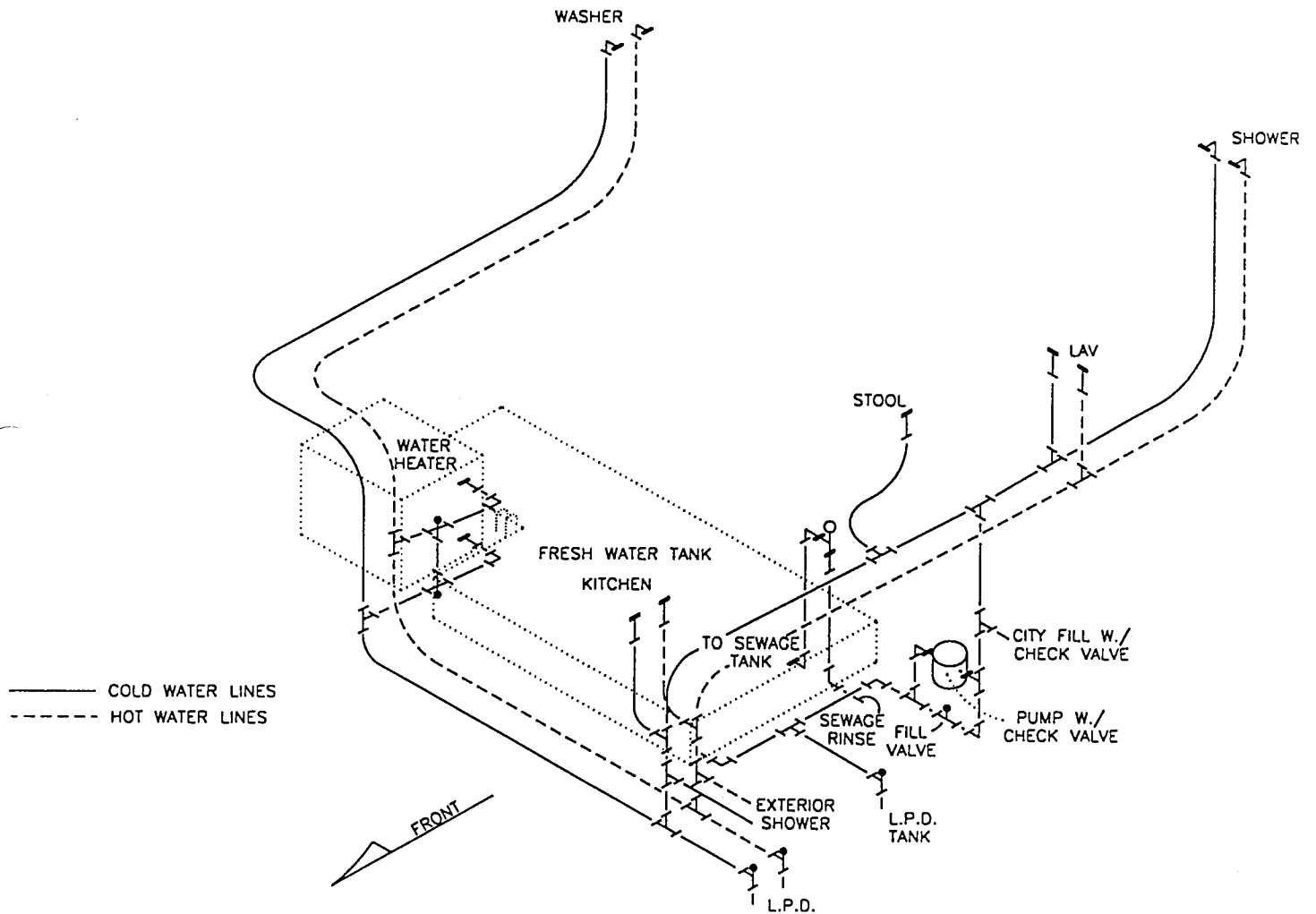
36' DS01-DP DRAIN LINE DIAGRAM



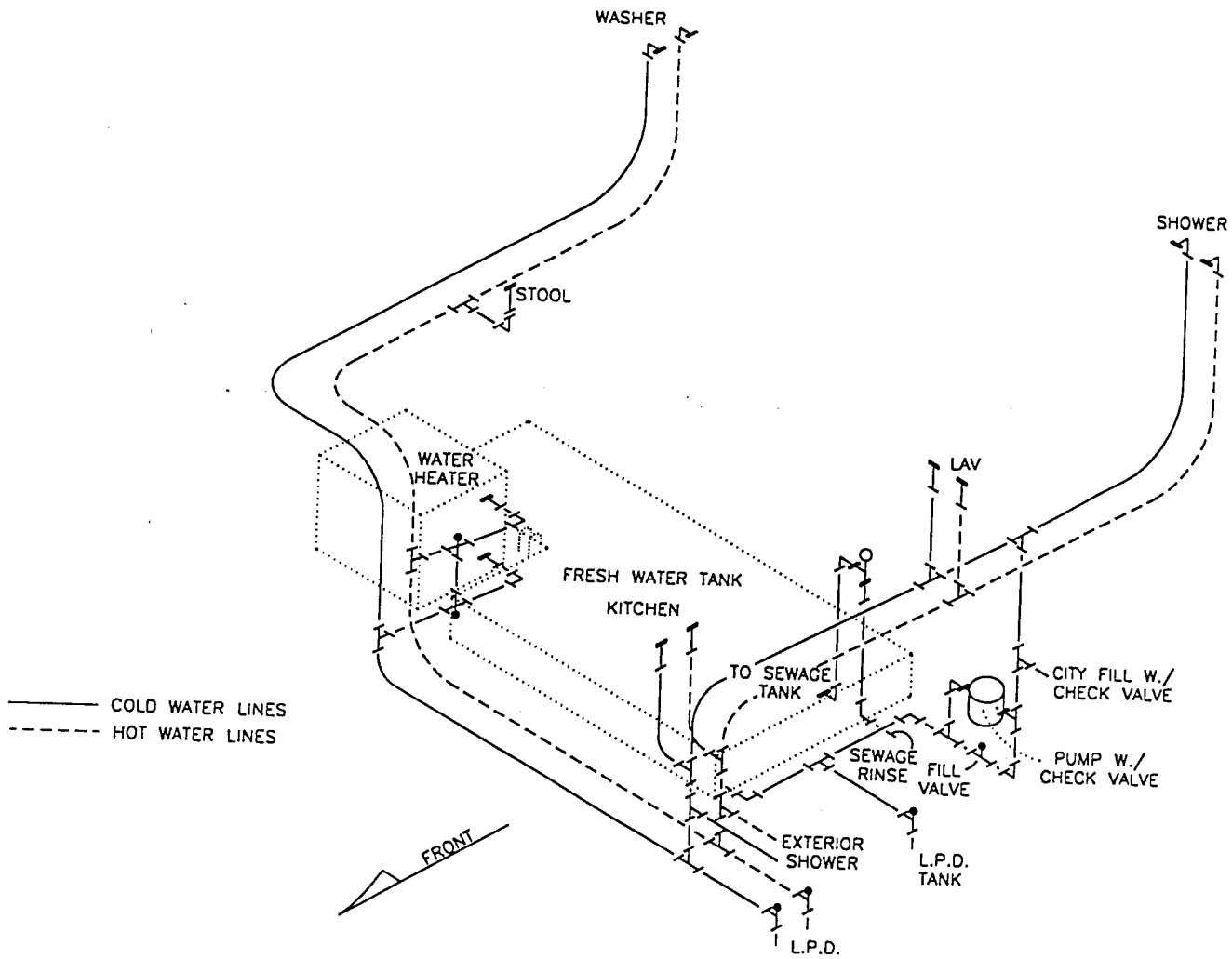
36' DSO1-DP W./BATH OPTION #2 DRAIN LINE DIAGRAM



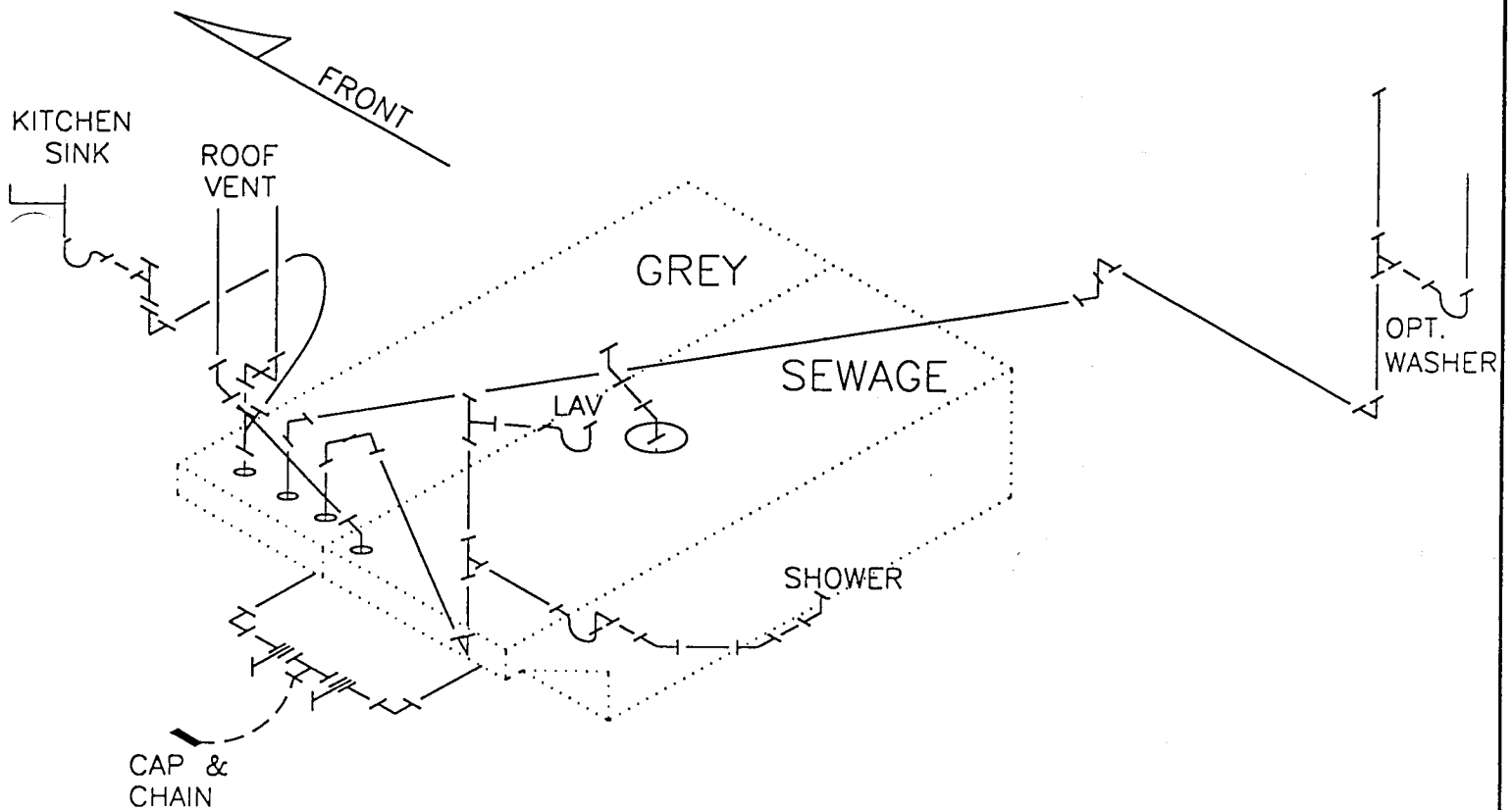
36' KSO1-DP WATER LINE DIAGRAM



36' KS01-DP W.BATH OPTION #2 WATER LINE DIAGRAM



36' KSO1-DP DRAIN LINE DIAGRAM



36' KS01-DP W./BATH OPTION #2 DRAIN LINE DIAGRAM

