

REEVES SUPPLY COMPANY

170 FROST STREET
FRANKLIN, GA 30217

(888) 854-5221



AN **L.B.WHITE** BRAND

INSTALLATION MANUAL FOR EVAPORATIVE COOLING

TABLE OF CONTENTS

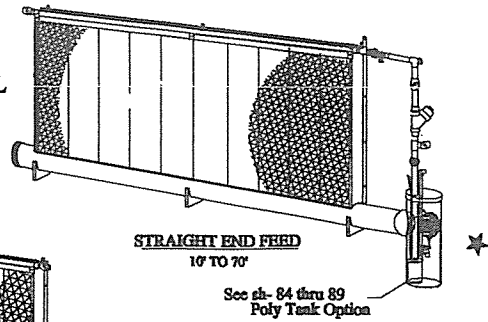
	sheet no.
Table Of Contents	1
Systems & Length	2
General Assembly Section	3
Parts	4
Operations	5
Maintenance and Winterizing System	6
SYSTEMS	
Single End Feed System	7
Center Feed Split Pad	20
Center Feed Continuous Pad	31
Double End Feed Split Pad	44
End Mounted Centrifugal Pump	57
Center Mounted Centrifugal Pump	71
Poly Tank Option	84

TOOLS REQUIRED FOR INSTALLATION

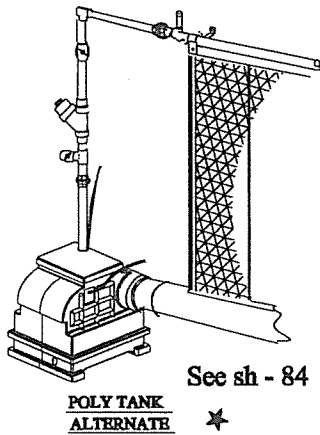
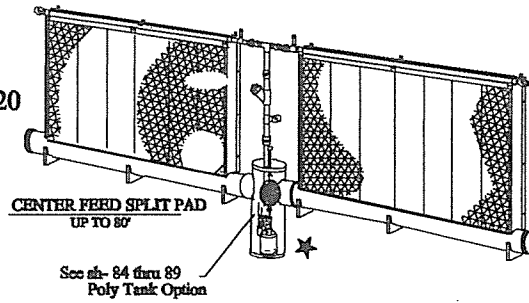
PVC Piping Glue Circular Saw Line & Hand Level Transit or surveyors level Wrench Phillips & flat Screw driver	PVC Piping Cutter Ladder 8' Step Chalk Line Drill w/1/4" bit "Sharpie" Marker	PVC Pipe Cleaner Tape Measure Hammer Ratchet Set Nut Driver Plywood Saw Blade min. 140 tooth
--	---	--

GENERAL SKETCHES OF SYSTEMS
REEVES SUPPLY COMPANY OFFERS WITH
THEIR LOCATION IN INSTALLATION MANUAL

See sh-7

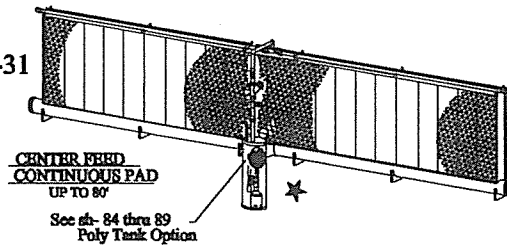


See sh-20

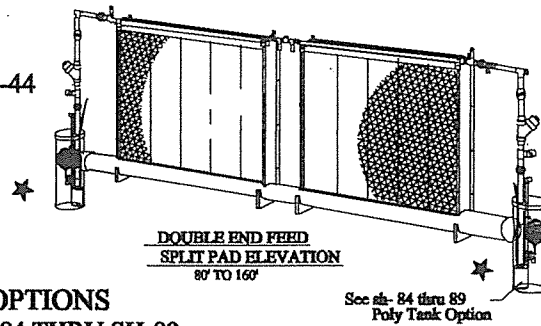


See sh - 84

See sh-31

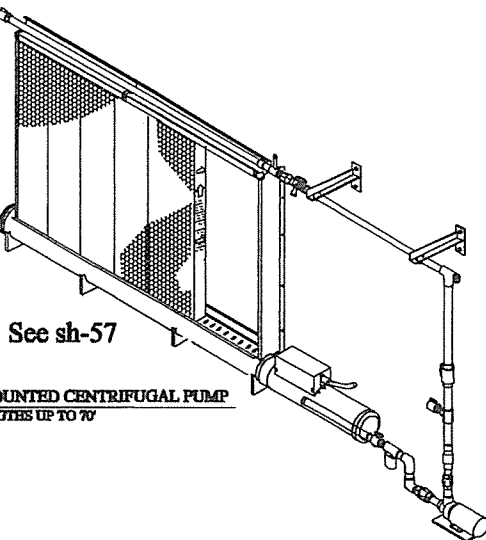


See sh-44

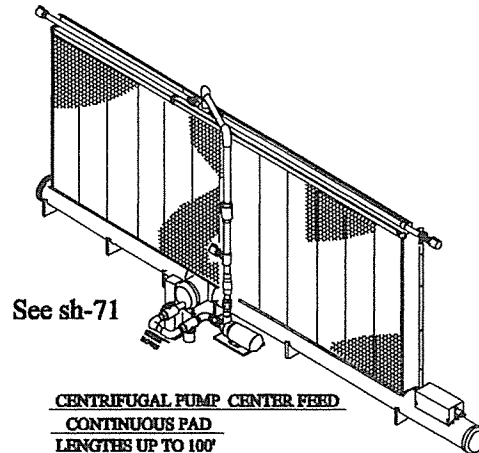


SUMP OR TANK OPTIONS
TANK OPTIONS SEE SH-84 THRU SH-89

CENTRIFICAL PUMP OPTION



See sh-57



See sh-71

GENERAL ASSEMBLY SECTION

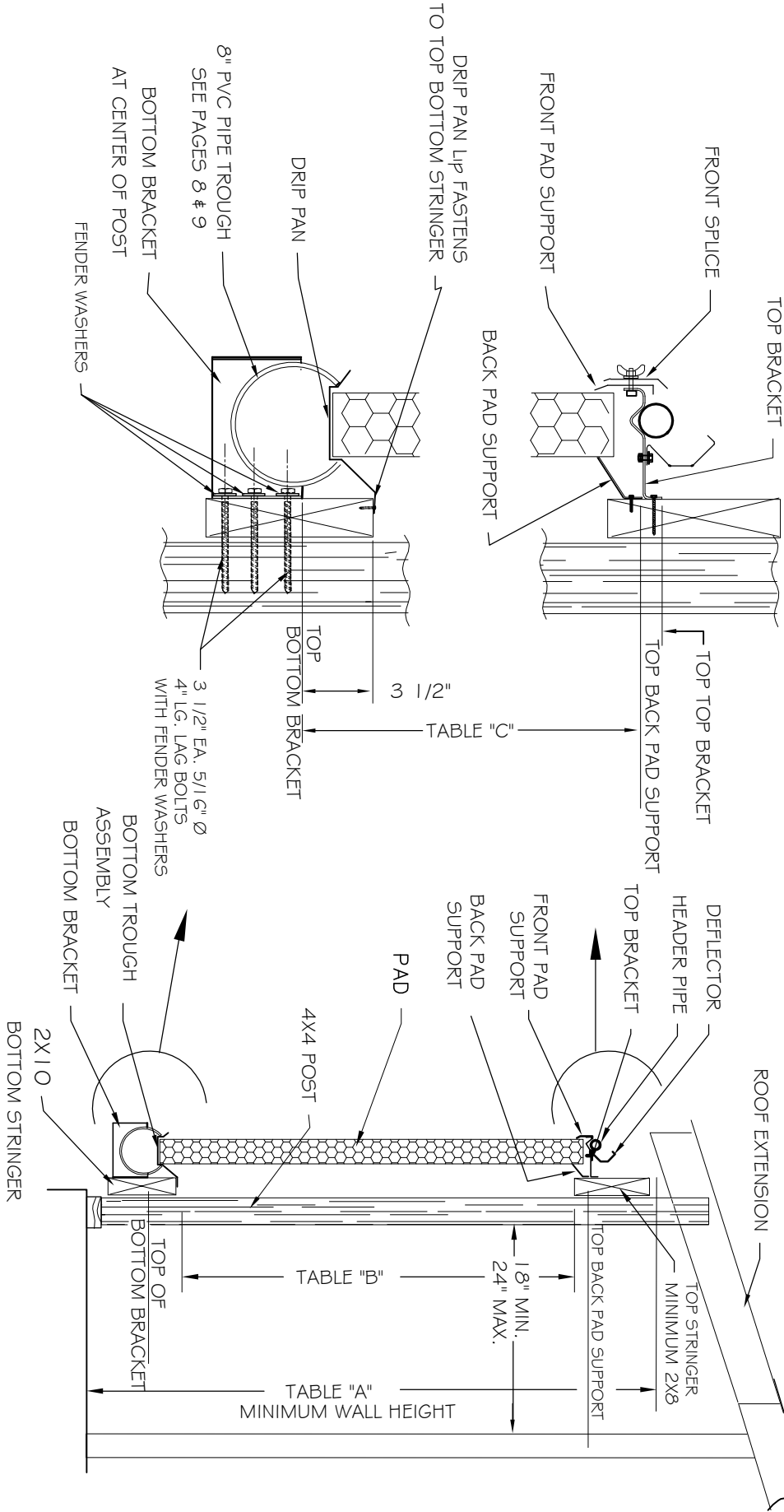
MINIMUM WALL HEIGHT
PAD HEIGHT + 16" = "A"

ROUGH OPENING HEIGHT
PAD HEIGHT - 3" = "B"

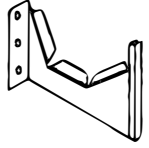
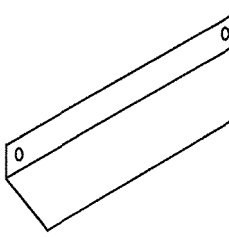
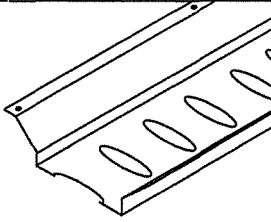
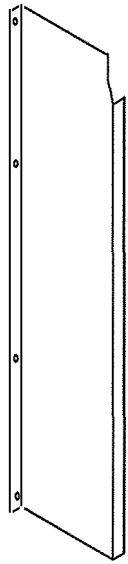
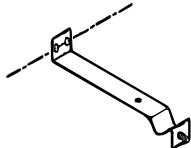
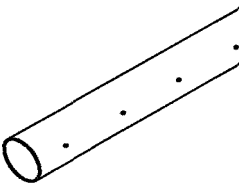
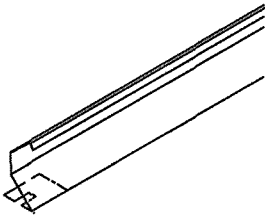
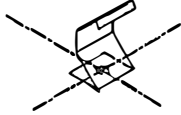
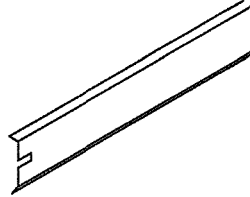
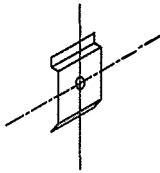
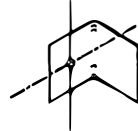
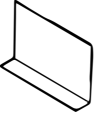
TABLE "A"		
PAD HEIGHT	OVERALL WALL HEIGHT	
	in FEET	in INCHES
3'-0"	4'-4"	52"
4'-0"	5'-4"	64"
5'-0"	6'-4"	76"
6'-0"	7'-4"	88"

TABLE "B"		
PAD HEIGHT	CLEAR BETWEEN TOP AND BOTTOM STRINGER	
	in FEET & IN	in INCHES
3'-0"	2'-9"	33"
4'-0"	3'-9"	45"
5'-0"	4'-9"	57"
6'-0"	5'-9"	69"

TABLE "C"		
PAD HEIGHT	DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT	
	IN FT. & IN.	INCHES
3'-0"	3'-3 1/2"	39 1/2"
4'-0"	4'-3 1/2"	51 1/2"
5'-0"	5'-3 1/2"	63 1/2"
6'-0"	6'-3 1/2"	75 1/2"



PARTS LIST

				
<p>ABB0009 BOTTOM BRACKET</p>	<p>ABP0005 BACK PAD SUPPORT</p>	<p>ABT0007 DRIP PAN</p>		
			<p>AEP0010 END PANEL</p>	
<p>ATB0008 TOP BRACKET</p>	<p>AHP0006 HEADER PIPE</p>	<p>ADF0001 DEFLECTOR</p>		
				
<p>ADFC002 DEFLECTOR SPLICE</p>	<p>AFP0003 FRONT PANEL</p>	<p>AFPC004 FRONT SPLICE</p>	<p>AEPB0016 END PANEL CLIP</p>	<p>AEPB0016 END PANEL BRACKET</p>

OPERATION

Initial Startup

When the pads are new their slick surface will inhibit the soaking that will happen when pads have gone through the "break-in" period. In order to "break-in" the pads, it is necessary to pump water over the pads continuously for one or two days depending on water "hardness" in your area. This is referred to as the "soak-in time."

After the pads have gone through the "break-in" period turn the water off and inspect the pads carefully. Any dry streaks found will indicate uneven water distribution. If dry streaks are found the header pipe will need to be cleaned. See procedure for cleaning system on next page.

Normal Operations

During normal conditions the pump should run continuously when air is being drawn across the pads. Water flow is controlled with the ball valve

During system operation look for signs of scale formation. Scale is a concentration of solids that build up on the surface of the pads. The scale comes from impurities in the water that are deposited when the water evaporates. If scale is noticed increase bleed off rate.

If water level in the reservoir is too high the bottom of the pads may stand in water. The part of the pads that are submerged will become waterlogged. This will result in breakdown of the waterlogged parts of the pads, thus greatly reducing the life of the pads.

Extending Pad Life

With use of your system you will become aware of various factors that affect the efficiency and life of the system. The three most typical problems are algae growth, scale, and dirt build up on the pads. A good maintenance program takes a small amount of time and will pay off with longer service life and more efficient operating system.

Algae Treatment

If algae develops in pipes it may be necessary to treat the water with chemicals. Consult the local agricultural distributor for a suitable water treatment.

Limit on-off Cycling

Many users have initially seen greater cooling effects from their system when they run the system on a ten minute cycle. Granted this procedure may have effective short term result, however the pad life is greatly reduced. Short term on-off cycles result in an increase scale deposit. The soluble minerals in the water become deposited on the pads each time the pads dry. The deposited scale (salts) limit the cooling effectiveness.

The best performance can be obtained with a water flow that keeps the water flowing over the pads. This will continuously flush the pads clean.

Bleed-off water from the system

Why bleed off water? As water is recycled through your system the impurities become more concentrated. When water evaporates no impurities are carried along, therefore the amount of impurities in the water that have not evaporated remain in the system. The chemicals, minerals and other impurities that are left behind through evaporation build up in the reservoir and should be diluted.

The only way to reduce the level of concentration is by removing (bleeding-off) water from the system. The amount of water you should bleed-off depends on the quality of the water being used by your system.

The amount of water you should bleed-off depends on the water quality in your area. If you have a large amount of impurities, you will need to allow more water to escape. If you see scale beginning to form on the pads, you will need to increase your bleed-off rate. The best method for determining the bleed-off rate is to first find out how much evaporation is occurring. To calculate a rough estimate of your evaporation, multiply the area of the pad by the air speed through the pad, by the temperature drop from one side to the other, then divide the final number by 500,000.

Example: assume you had 5' tall by 60' long and your air speed is 300 feet per minute. Outside temperature is 95 , and inside temperature is 75 you would have an evaporation rate of 3.6 gallons per minute.

If water is extremely hard (that is with high levels of impurities) then the bleed-off rate should be equal to evaporation. In areas with little minerals in the water supply, then bleed-off somewhere between 1/4 to 1/2 the evaporation rate.

Cleaning the system

1. Shut off the pump and clean the strainer. To clean in-line filter: (a) close ball valve between filter and reservoir; (b) unscrew filter and dump out water; (c) replace filter; (d) open ball valve.
2. If possible turn off fans. (if this is not possible, run fans at minimum level).
3. Gently hose off pads. Clean algae from pads and pipes.
4. Flush reservoir: (a) close ball valve between pump and 1" diameter exhaust; (b) open 1" diameter exhaust valve; (c) turn on pump; (d) added to reservoir by fill line as system flushes.
5. After flushing reservoir: (a) turn off pump; (b) open ball valve between exhaust and union fitting; (c) close exhaust valve.
6. Flush header: (a) open ball valve at end of header; (b) turn on pump; (c) flush for several minutes.
7. Disconnect union at end of header.
8. Insert brush into header. Brush out debris from header line.
9. Reconnect union.
10. After flushing header: Turn off pump. Close ball valve at end of header.
11. Refill reservoir to full level.
12. Resume normal operation.

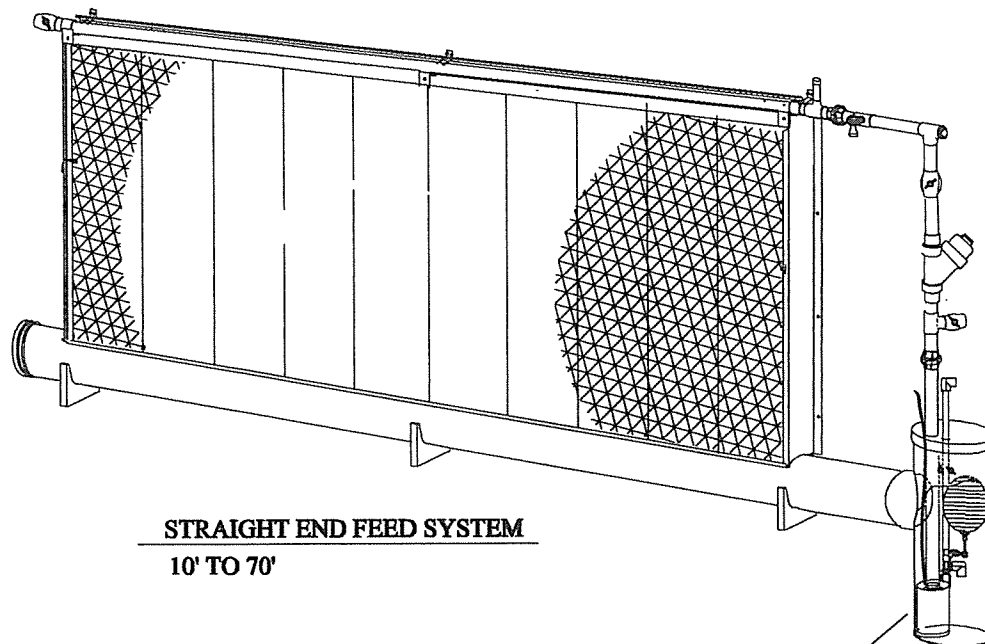
Winterizing the system

1. Shut off pump.
2. Close ball valve between in-line filter and reservoir,
3. Remove filter cover.
4. Open ball valve between strainer and reservoir. Drain water from system.
NOTE: expect about 70 gallons of standing water per 50 feet of reservoir pipe.
5. Do not replace filter cover until recharging the system for normal operation.
6. Leave all fittings open for winter.
* If left closed they will freeze and burst.

TABLE OF CONTENTS

sheet no.

Single End Feed Table of Contents	7
Typical Framing Details	8
Assemble and Glue 8" Trough	9
Install Back Pad Support	10
Install Top Brackets & Deflector	11
8" Trough Fabrication For Continuous Pad Systems	12
Install drip pan assembly and end brackets	13
Assemble and Install Header Pipe	14
Install Pads and Front Panel	15
Sump Types Assembly & Feeder pipe Fabrication	16
Float Valve and Pump Assembly	17
Float Valve configurations	18
Square Float and Valve Assembly	19



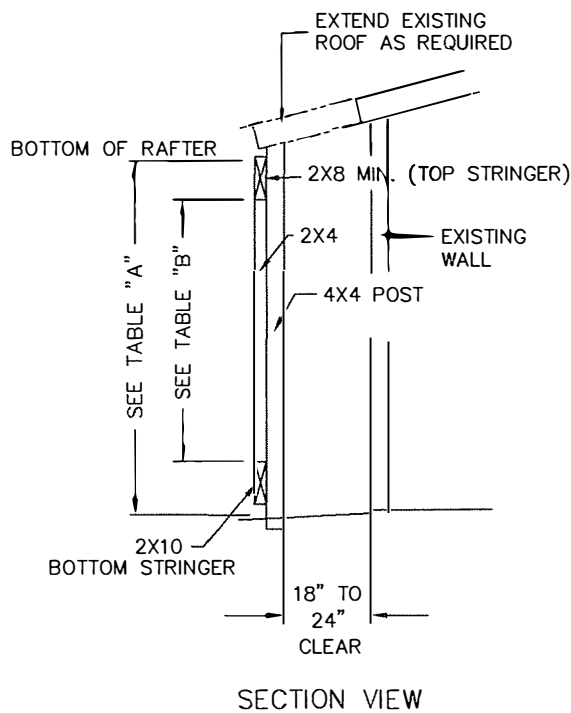
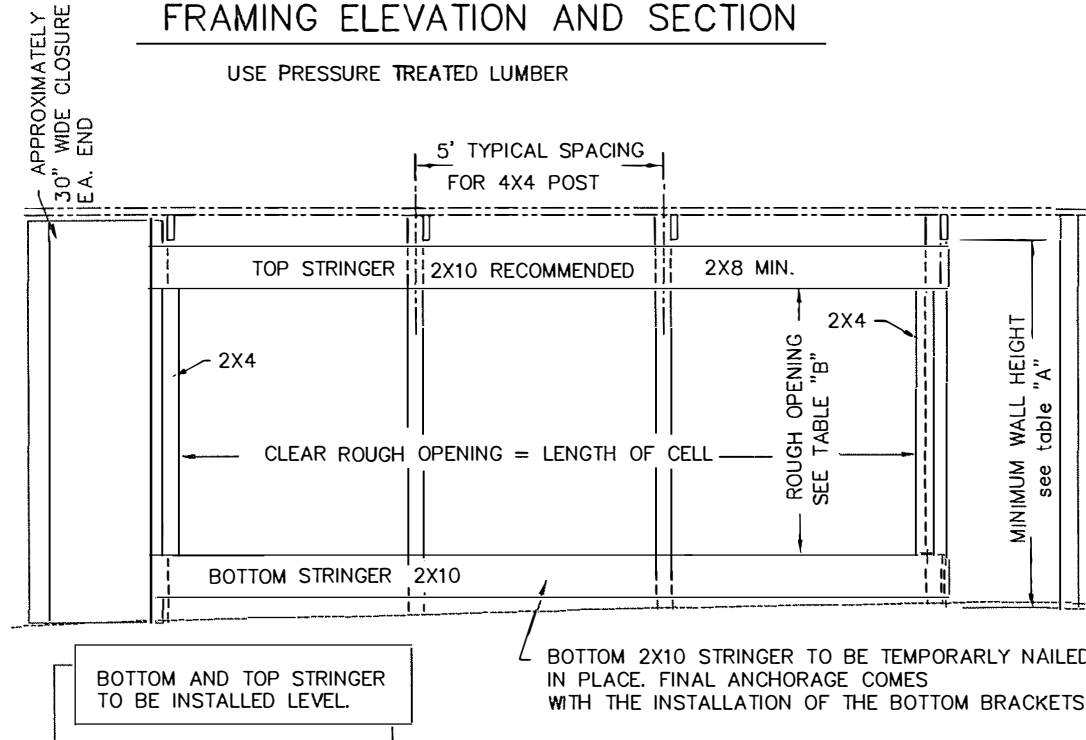
STRAIGHT END FEED SYSTEM
10' TO 70'



SEE SHEET 85 FOR
POLY TANK OPTION

FRAMING ELEVATION AND SECTION

USE PRESSURE TREATED LUMBER



MINIMUM WALL HEIGHT
PAD HEIGHT + 16" = "A"

PAD HEIGHT	TABLE "A"	
	OVERALL WALL HEIGHT	
	in FEET & IN	in INCHES
3' - 0"	4' - 4"	52"
4' - 0"	5' - 4"	64"
5' - 0"	6' - 4"	76"
6' - 0"	7' - 4"	88"

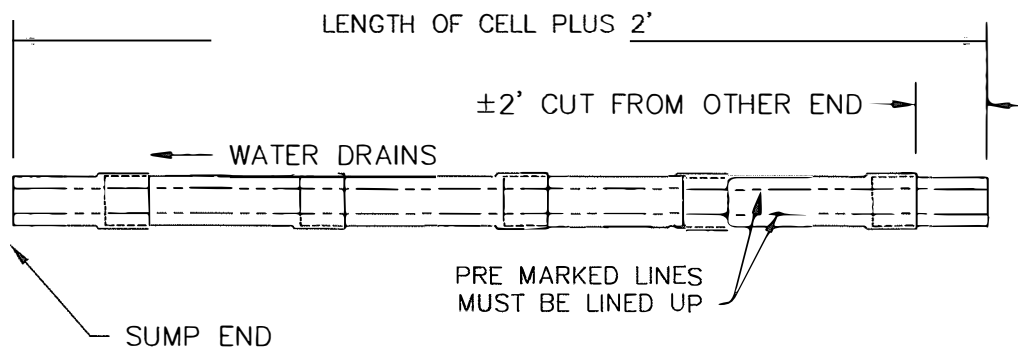
ROUGH OPENING HEIGHT
PAD HEIGHT - 3' = "B"

PAD HEIGHT	TABLE "B"	
	CLEAR BETWEEN 2X10	
	in FEET & IN	in INCHES
3' - 0"	2' - 9"	33"
4' - 0"	3' - 9"	45"
5' - 0"	4' - 9"	57"
6' - 0"	5' - 9"	69"

GLUE 8" TROUGH FOR END FEED SYSTEM

DO NOT DISTURB GLUED PIPE
UNTIL GLUE HAS CURED.

A MINIMUM OF 2' EXTRA 8" PIPE PROVIDED



INSTALL BACK PAD SUPPORT

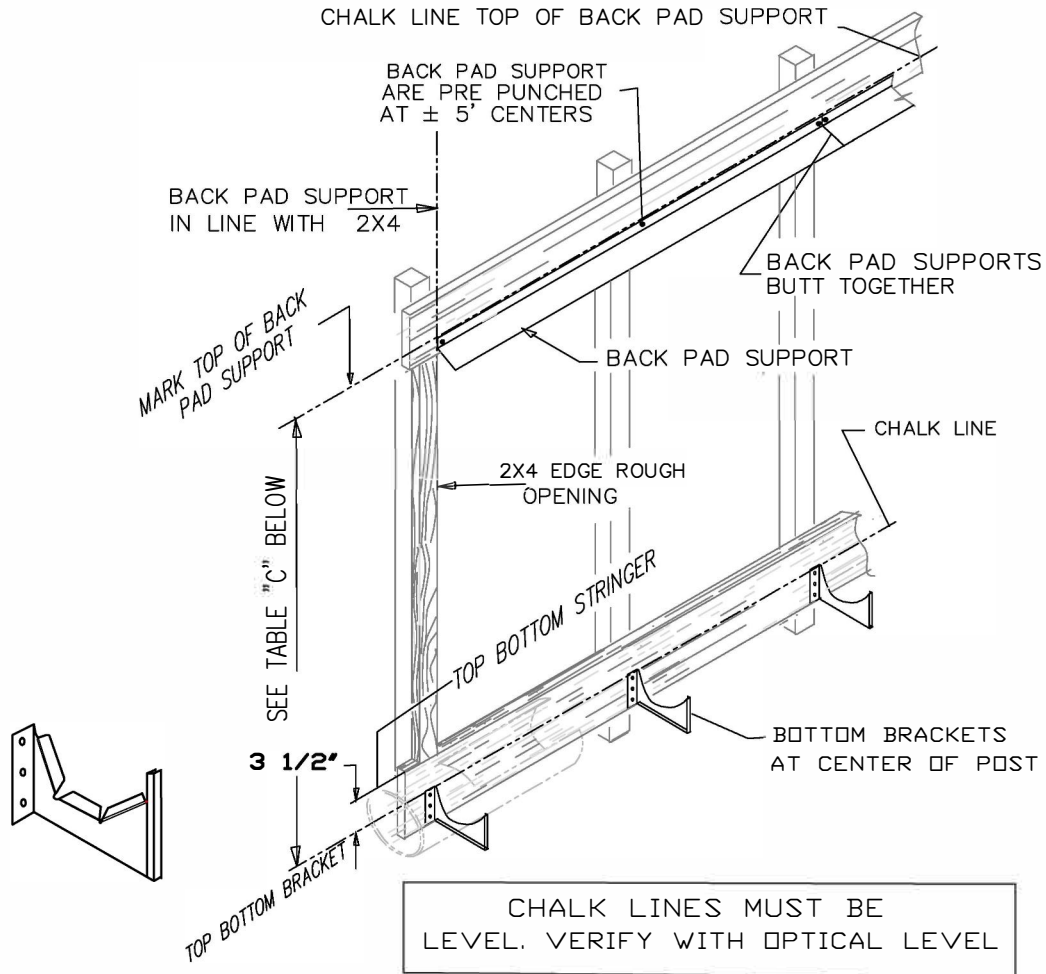
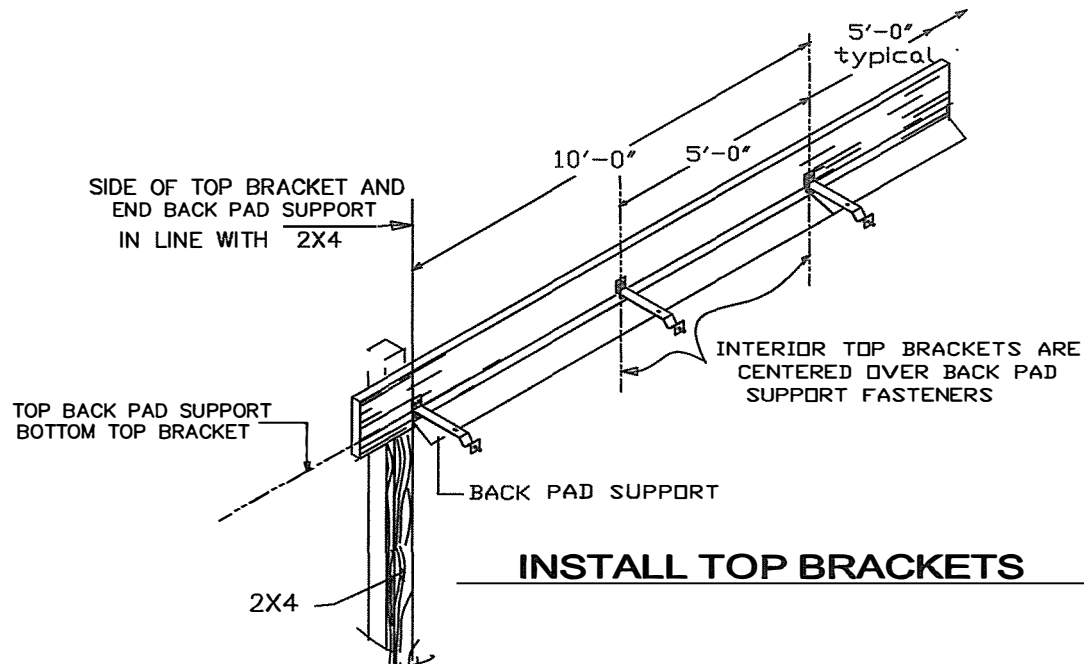
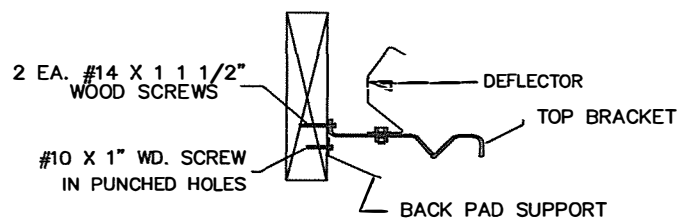


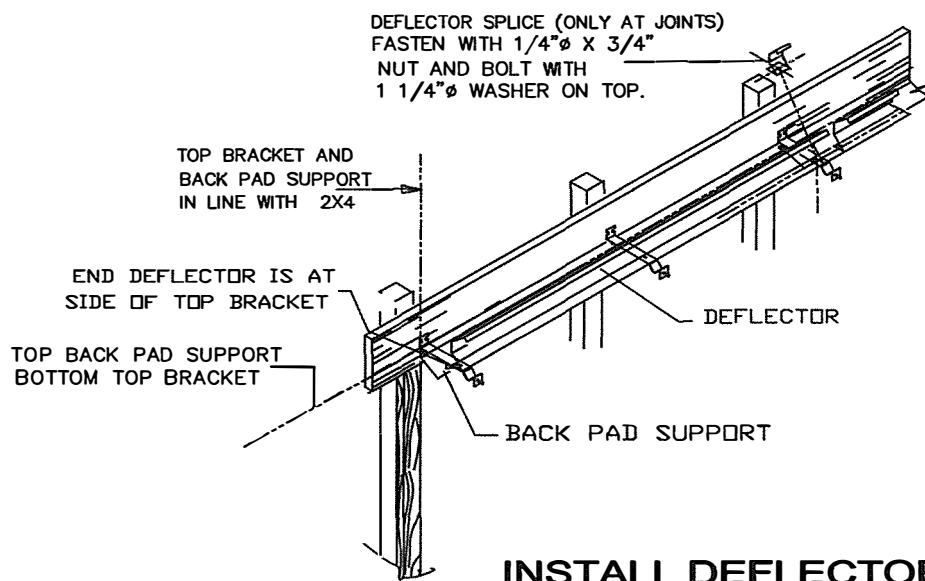
TABLE "C"		
PAD HEIGHT	DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT	
	IN FT. & IN.	INCHES
3' -0"	3' -3 1/2"	39 1/2"
4' -0"	4' -3 1/2"	51 1/2"
5' -0"	5' -3 1/2"	63 1/2"
6' -0"	6' -3 1/2"	75 1/2"



INSTALL TOP BRACKETS



END VIEW



INSTALL DEFLECTOR

TROUGH FABRICATION

FOR END FEED SYSTEMS

AFTER THE GLUE HAS DRIED PLACE THE ASSEMBLED PIPE ON THE BOTTOM BRACKETS AND SLIDE ASSEMBLY AS REQUIRED TO MAKE SURE THE JOINS CLEAR THE BOTTOM BRACKETS.

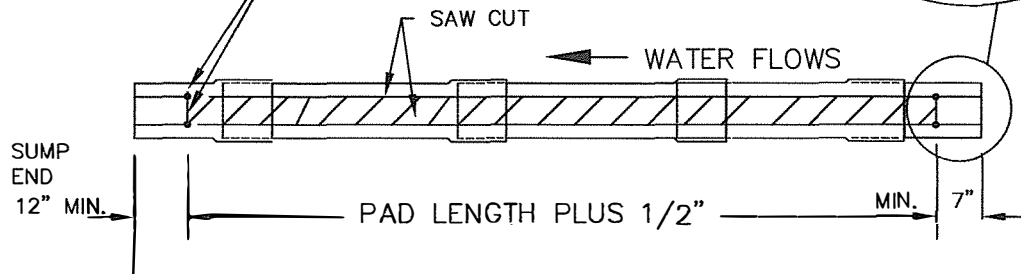
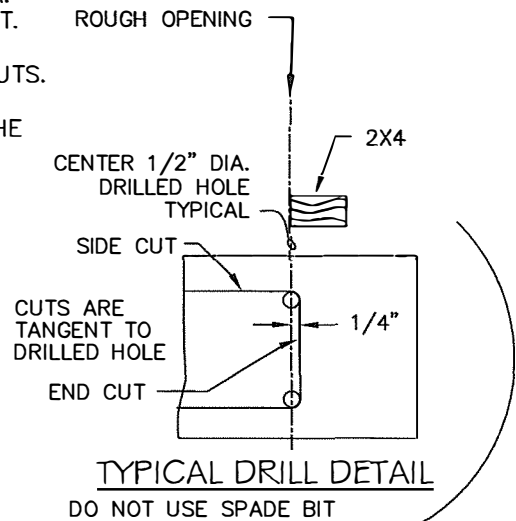
DRILL HOLES AT CORNERS
BEFORE MAKING CUTS

WITH PIPE ON THE BOTTOM BRACKETS AND CLEAR OF THE BRACKETS THE FIRST STEP IN CUTTING THE PIPE IS TO LOCATE THE CORNERS AND DRILL $1/2"$ DIA. HOLES AS SHOWN IN TYPICAL DRILL DETAIL THIS SHEET.

NOW WITH THE HELP OF AN ASSISTANT START SIDE CUTS. USE A CIRCULAR SAW WITH PLYWOOD CUTTING BLADE. DO NOT ALLOW THE CUT SECTION TO SAG DOWN IN THE PIPE. WEDGE THE CUT SECTION AS REQUIRED. MAKE THE END CUTS LAST. DO NOT OVER CUT AT THE CORNERS.

suggest using jig saw
to cut last couple
inches at corners.

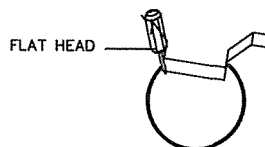
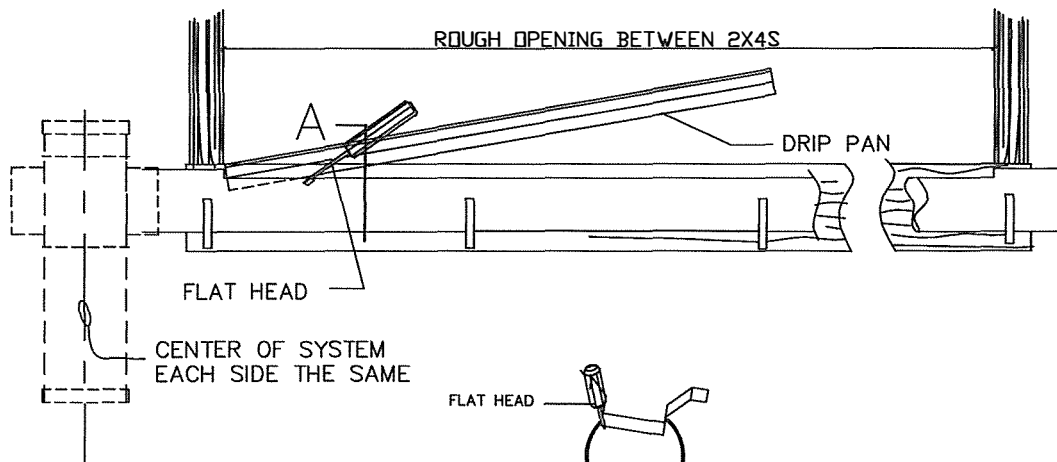
$1/2"$ DIA. DRILL HOLES
AT CORNERS TYPICAL
SEE TYPICAL DRILL DETAIL



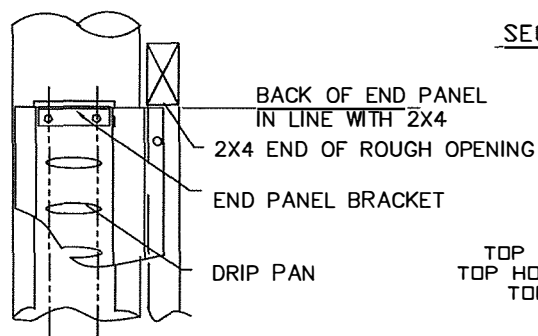
PLACE DRIP PAN IN TROUGH

THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN,

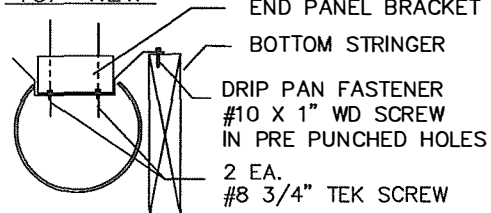
DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN" THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.



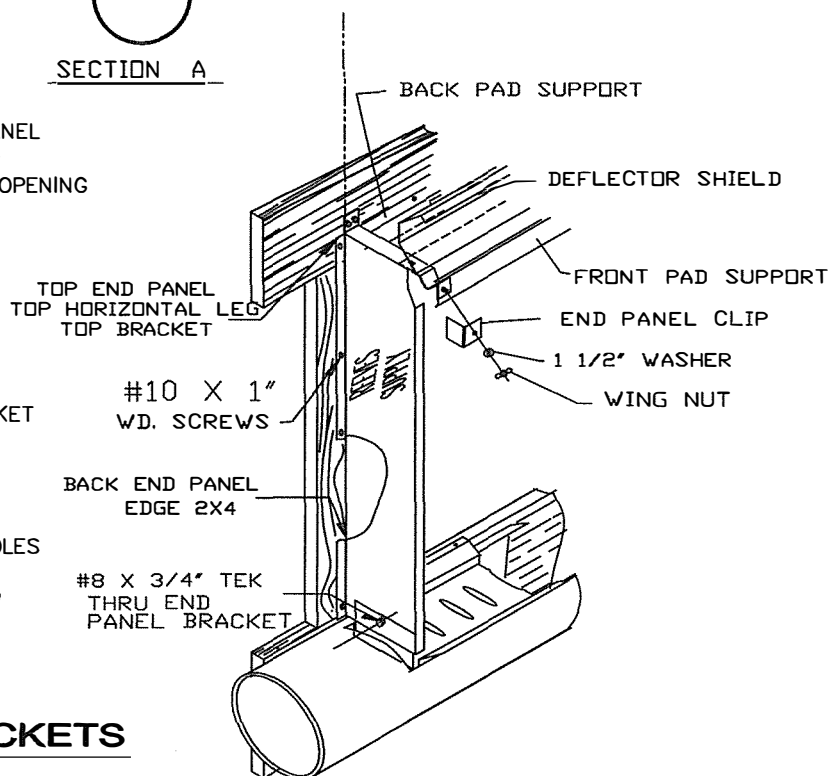
SECTION A



TOP VIEW



END VIEW

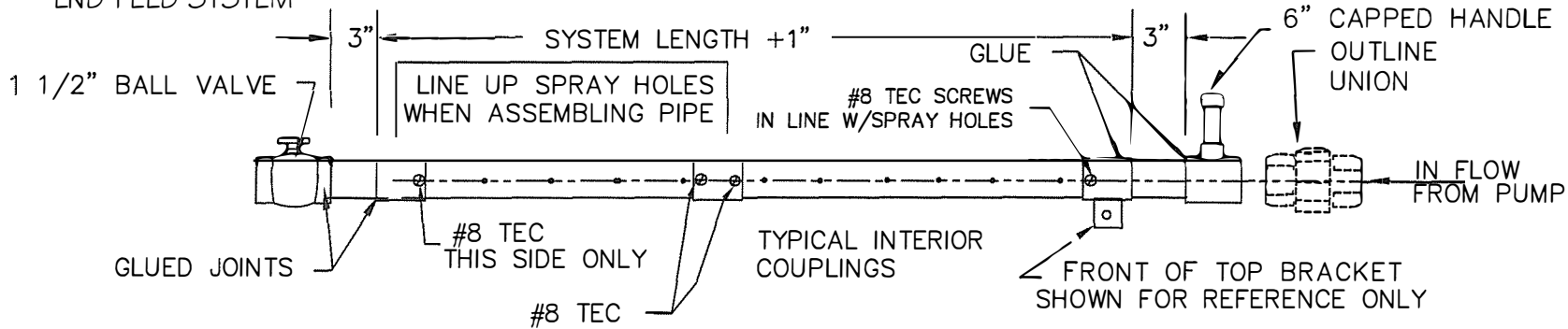


INSTALL END PANELS
BOTH ENDS

INSTALL END PANELS BRACKETS

ASSEMBLE HEADER PIPE

END FEED SYSTEM



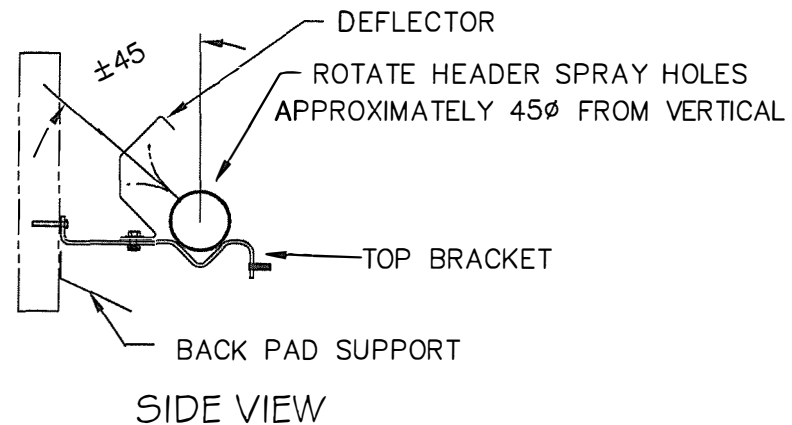
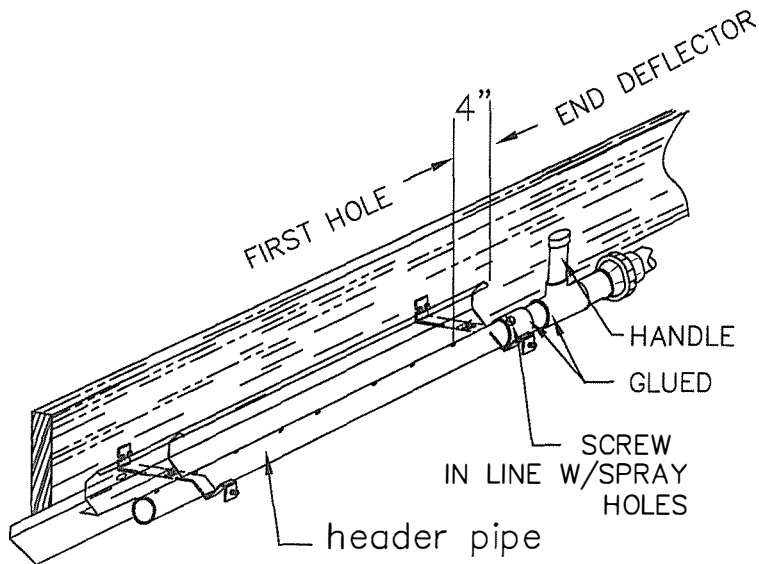
HEADER PIPE DETAIL

STEP 1 (DO NOT GLUE HEADER PIPE)

MAKE SURE HOLES ARE LINED UP WHEN ASSEMBLING HEADER.
COUPLINGS ARE SCREW FASTENED TO PIPE WITH 2 EACH
#8 TEC SCREWS. 1 SCREW EACH SIDE OF COUPLING.

STEP 2

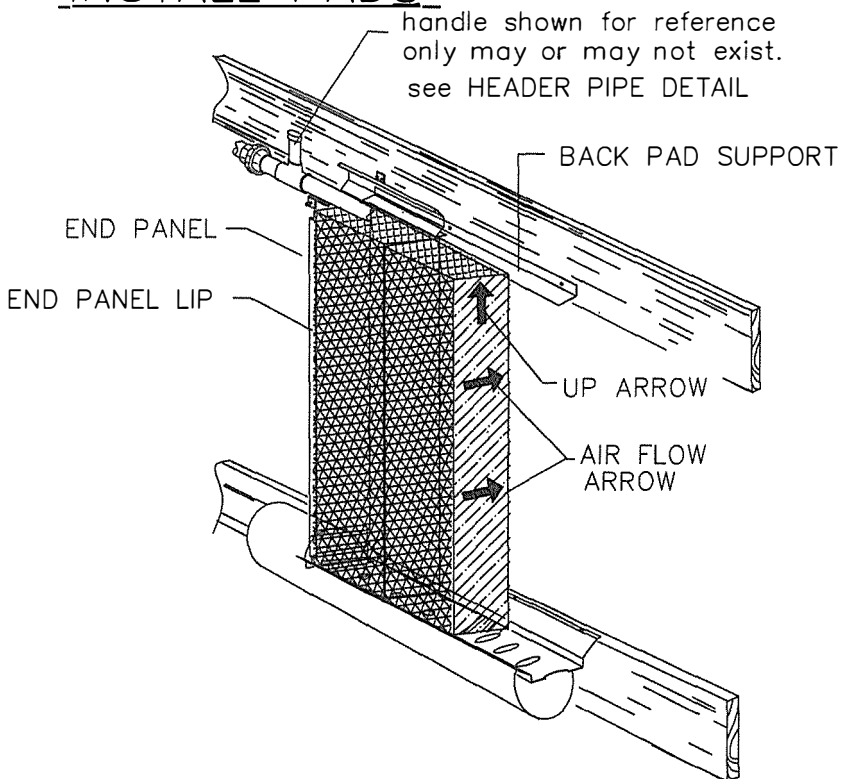
PLACE ASSEMBLED HEADER PIPE ON TOP BRACKETS. MAKE
SURE THE HEADER SPANS FULL LENGTH OF TOP
BRACKETS. JOIN BALL VALVE WITH ABOUT 3" OF PIPE
TO OUT ENDS. PLACE HANDLE W/ ABOUT 3" ON IN FLOW END



STEP 3

POSITION HEADER PIPE TO PROVIDE MINIMUM 4" BETWEEN FIRST SPRAY HOLE AND END OF DEFLECTOR. THIS TO PREVENT SPRAYING OUTSIDE THE DEFLECTOR. IT MAY BE NECESSARY TO CUT HEADER PIPE AND INSTALL A COUPLING TO GAIN THE 4" CLEARANCE.

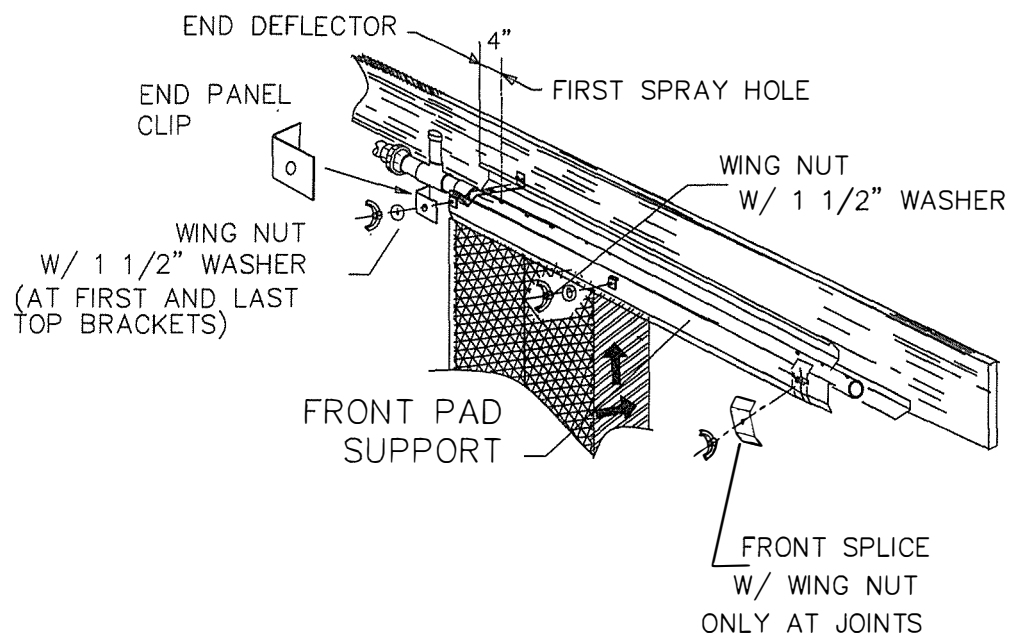
INSTALL PADS



NOTE: SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

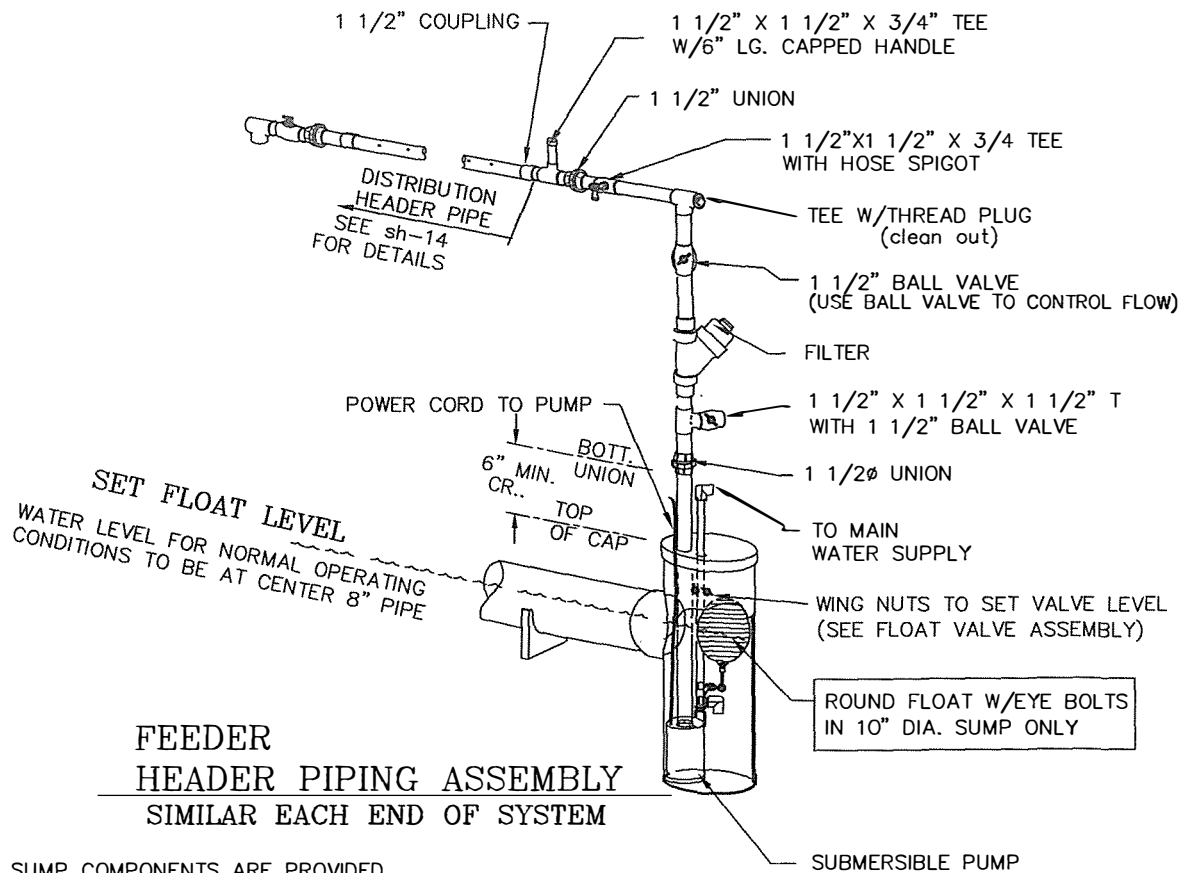
"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

INSTALL FRONT PAD SUPPORT

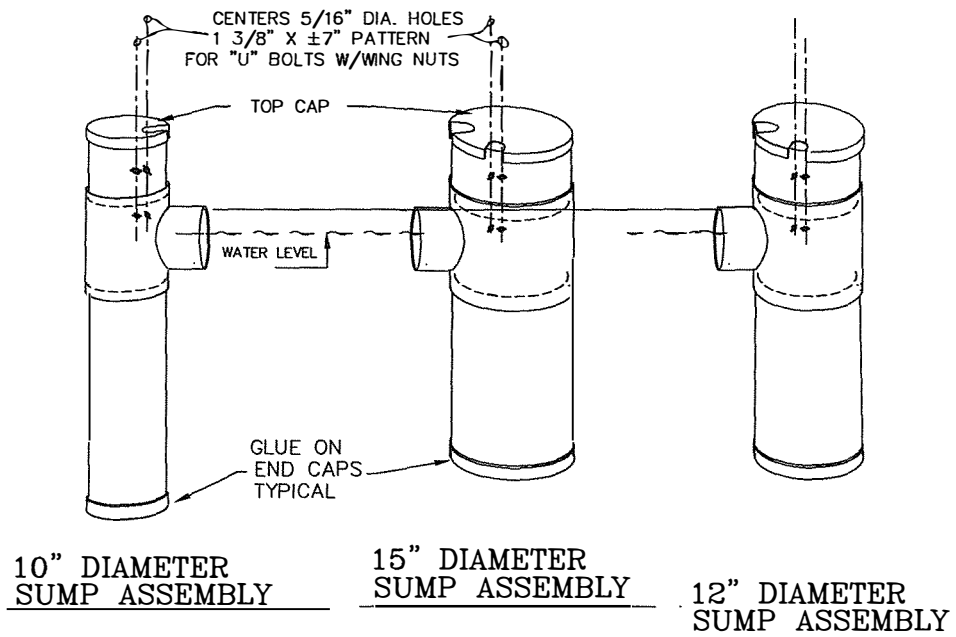


THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

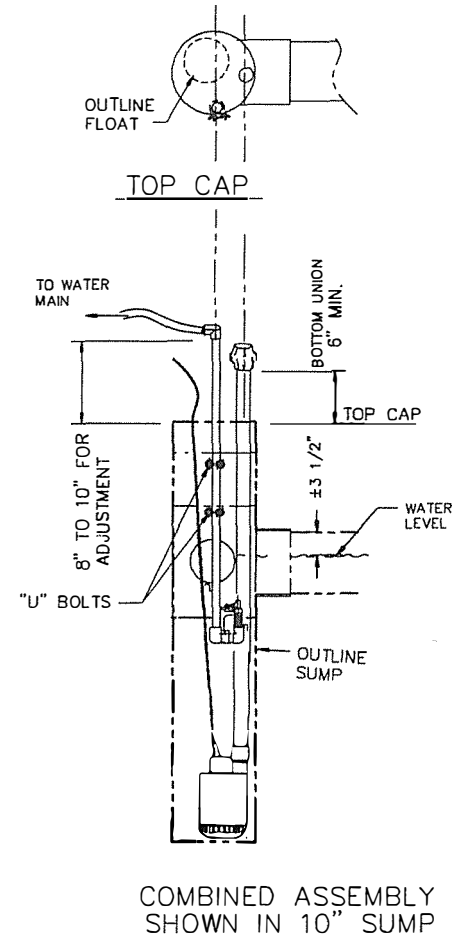
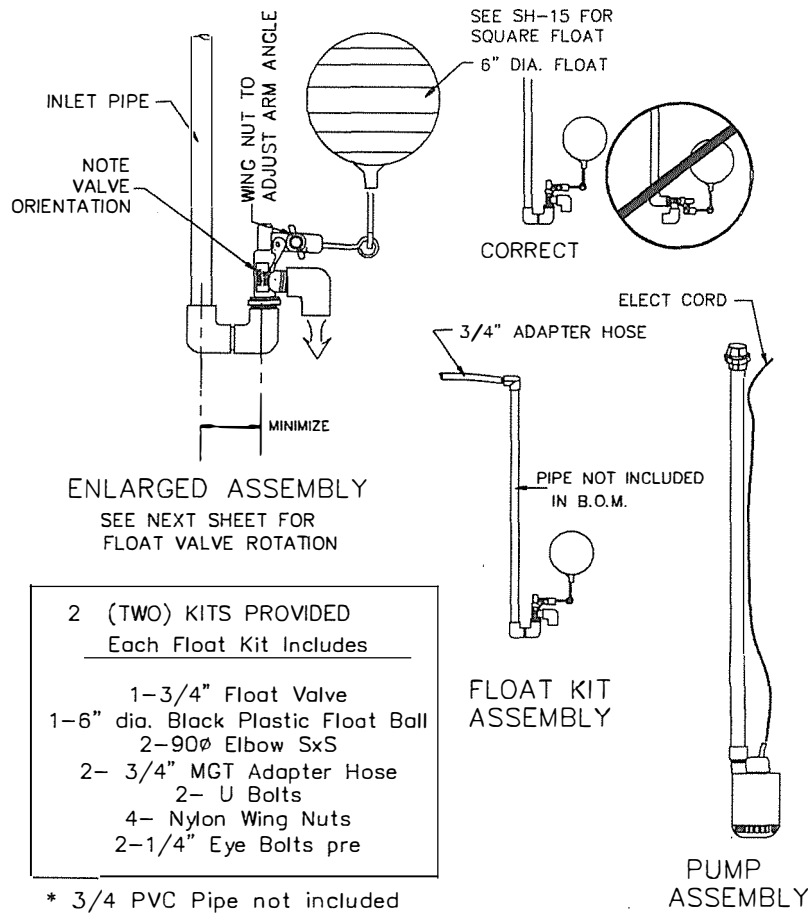
NOTE: ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL.



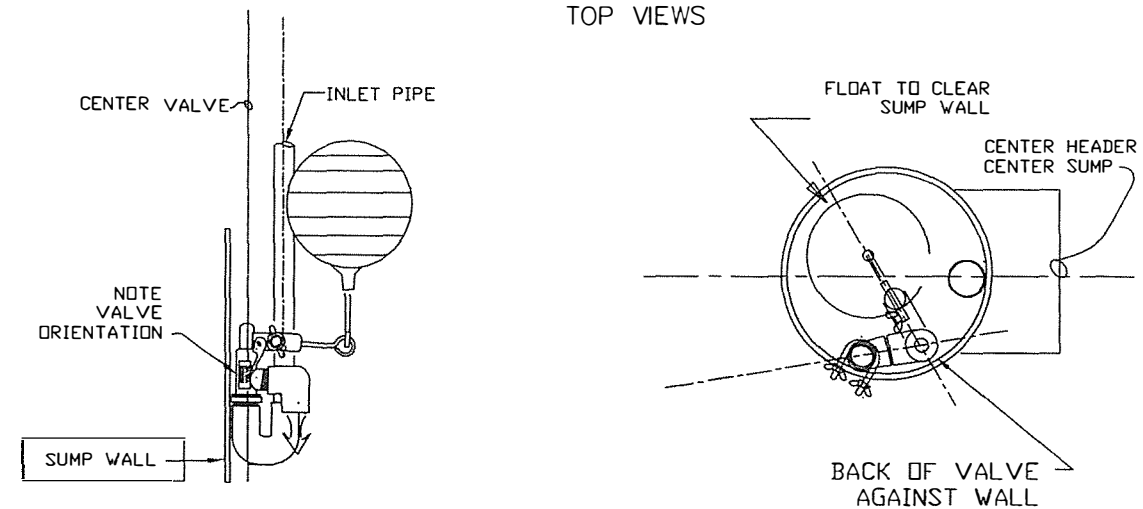
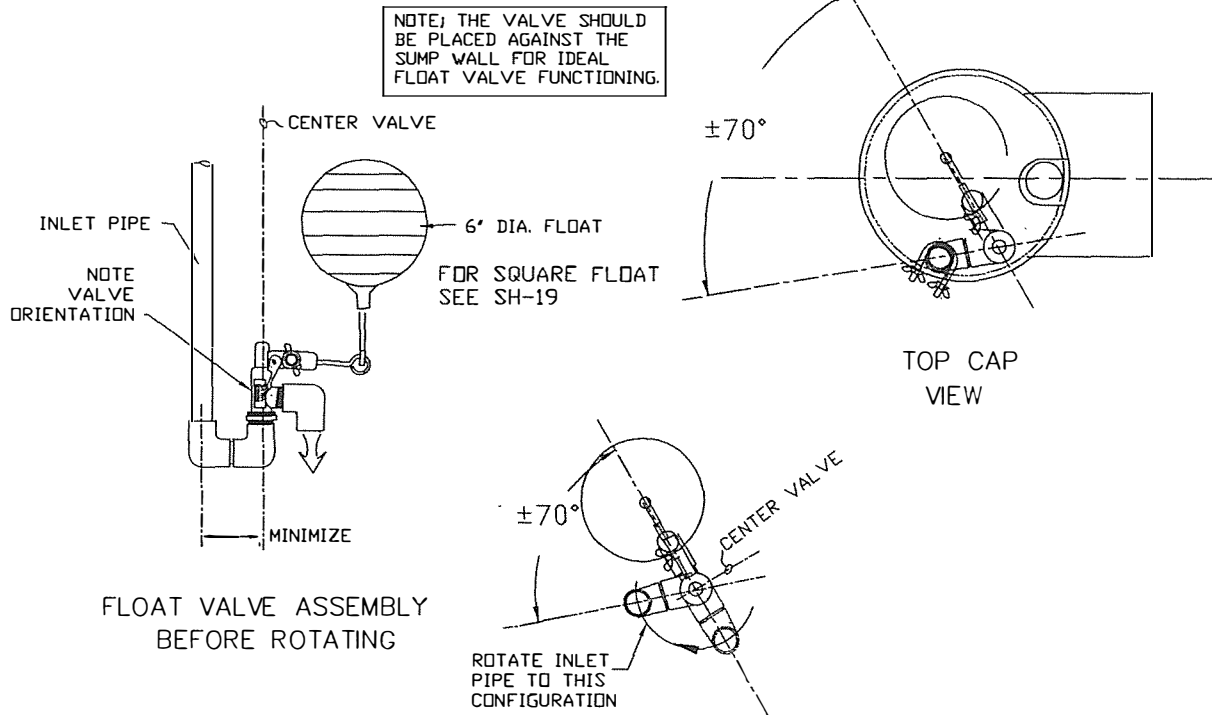
SUMP COMPONENTS ARE PROVIDED
THE END CAP TO BE GLUED ON IN FIELD.
THE TOP CAP WILL REQUIRE OPENINGS TO BE FIELD CUT
DO NOT GLUE ON TOP CAP



FLOAT VALVE ASSEMBLY PUMP ASSEMBLY

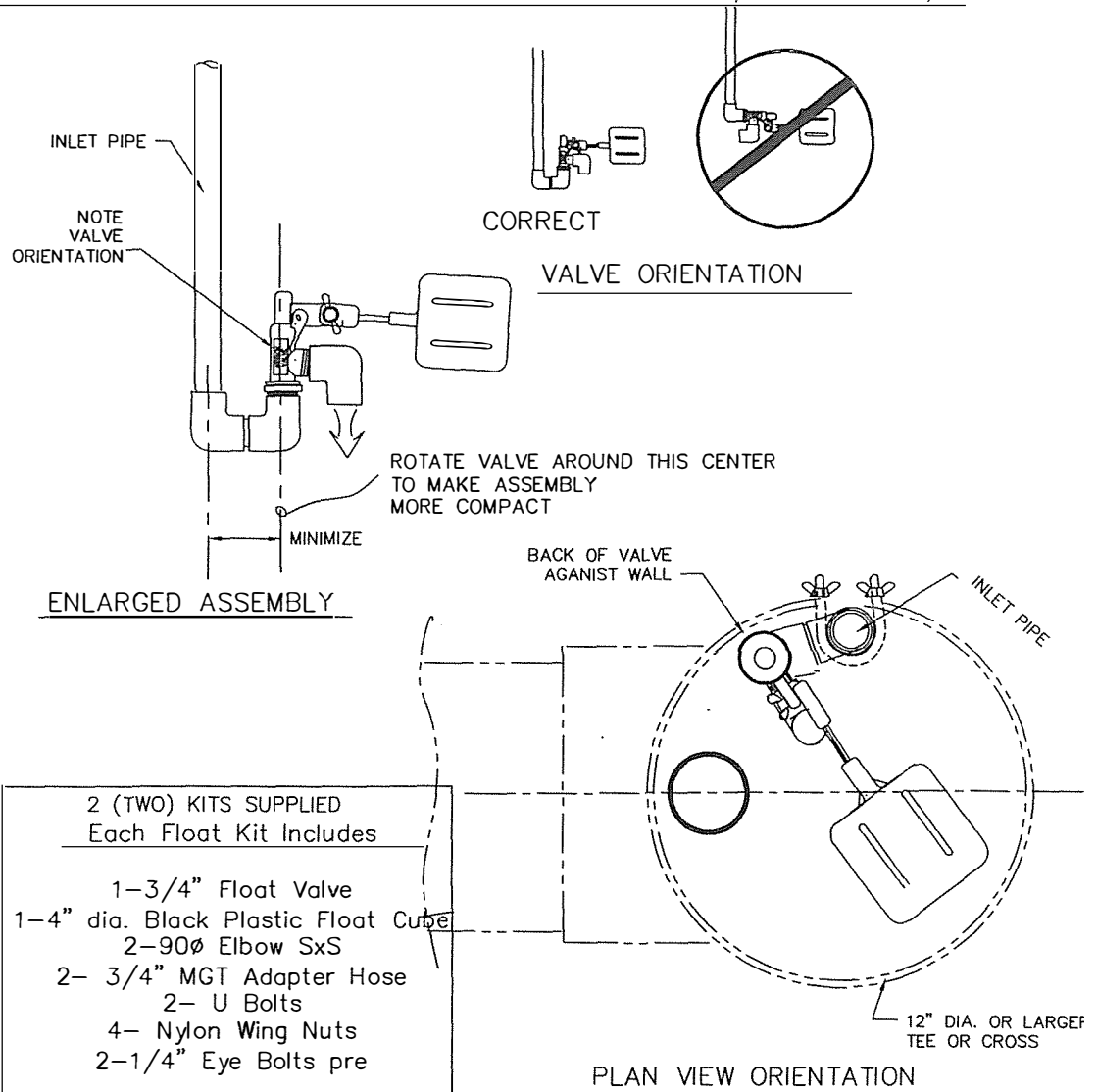


FLOAT VALVE ASSEMBLY CONFIGURATION



FLOAT VALVE ASSEMBLY
MOST COMPACT
MUST USE THIS ARRANGEMENT
FOR 10" SUMP AND 10" CROSS SUMP

SQUARE FLOAT & VALVE ASSEMBLY for 12" & 15" TEES only

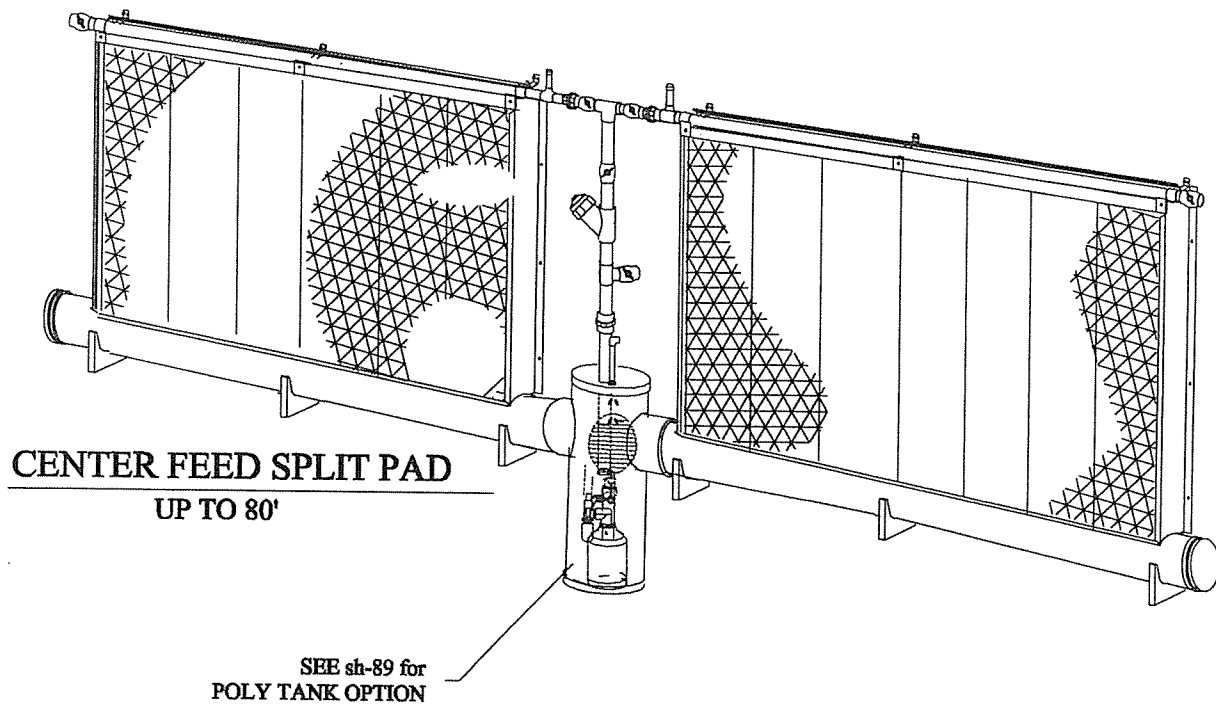


* 3/4" PVC Pipe not included

TABLE OF CONTENTS

sheet no.

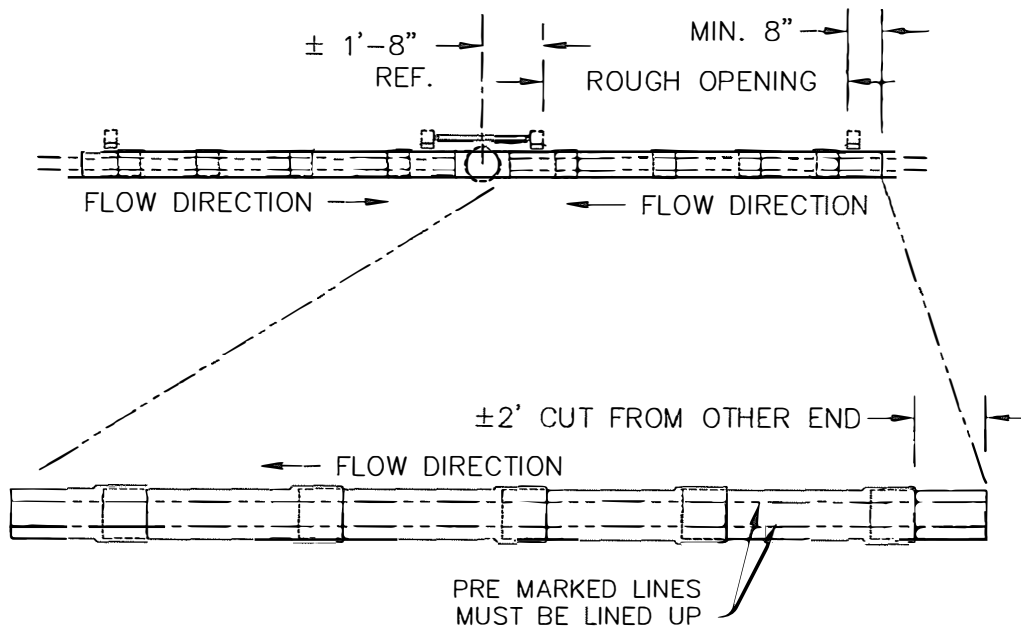
Center Feed Split Pad Table of Contents -----	20
Framing Elevation & Sections -----	21
Assemble and Glue 8" Pipe Trough -----	22
Install Back Pad Support -----	23
Install Top Brackets & Deflector -----	24
Trough Fabrication For Split Pad Center-Feed Systems -----	25
Install drip pan in Trough and End Brackets -----	26
Install Pads and Front Panel -----	27
Header (Distribution) Pipe Detail and finished Elevation with Sections -----	28
Pump assembly Float valve assembly -----	29
Float Valve Configurations in Sump -----	30



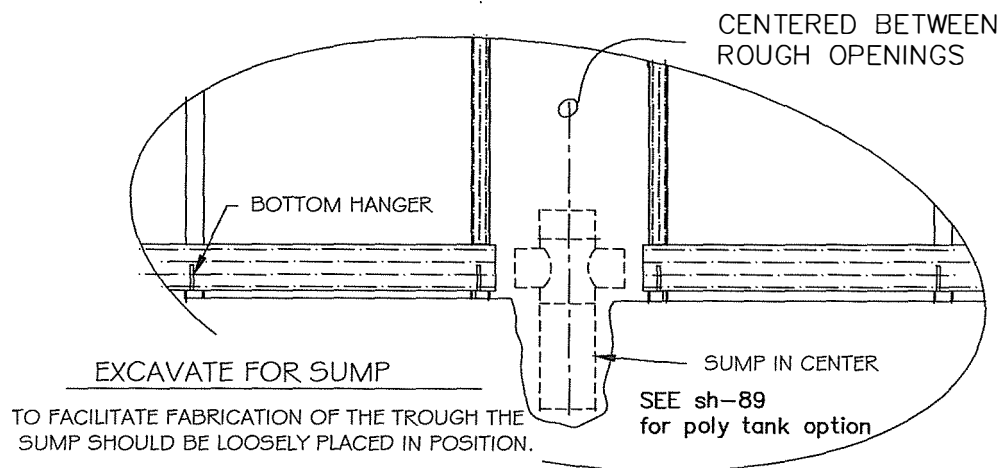
GLUE 8" PIPE TROUGH AND EXCAVATE FOR CENTER SUMP. CENTER-FEED SPLIT PAD SYSTEM

DO NOT DISTURB GLUED PIPE
 UNTIL GLUE HAS CURED.

A MINIMUM OF 6' EXTRA 8" PIPE PROVIDED



ONE SIDE OF TROUGH
 OTHER SIDE MIRROR THIS SIDE



INSTALL BACK PAD SUPPORT

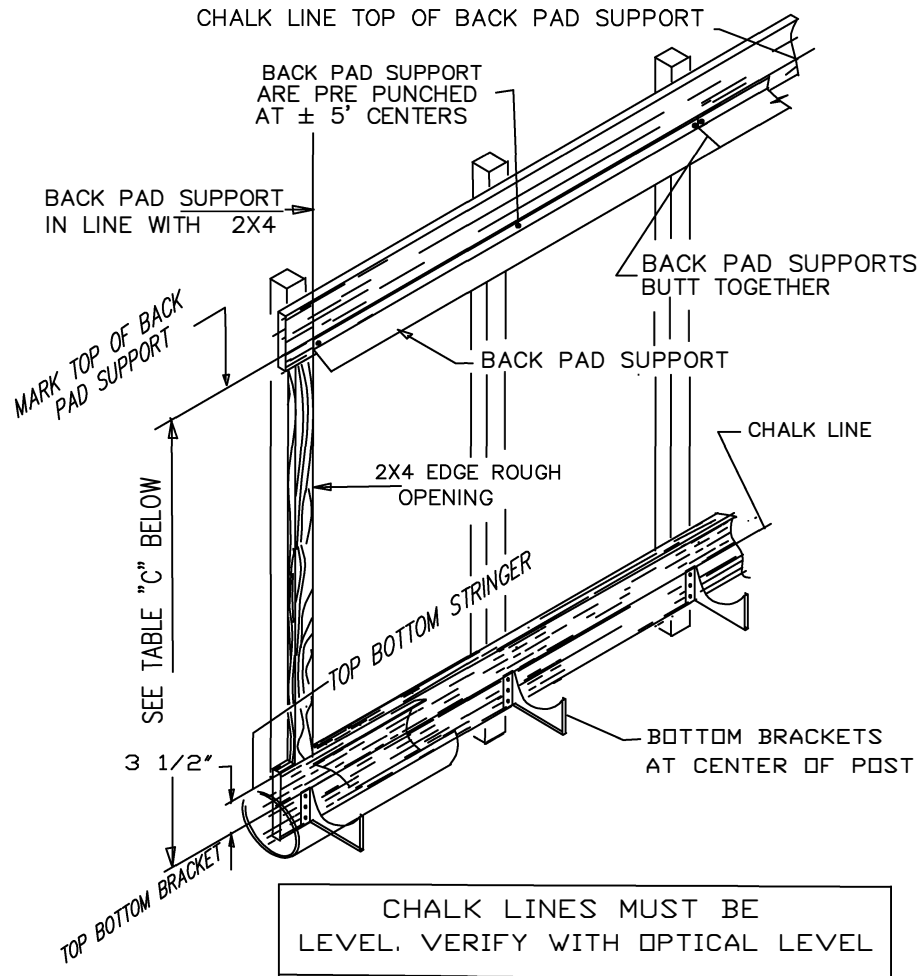
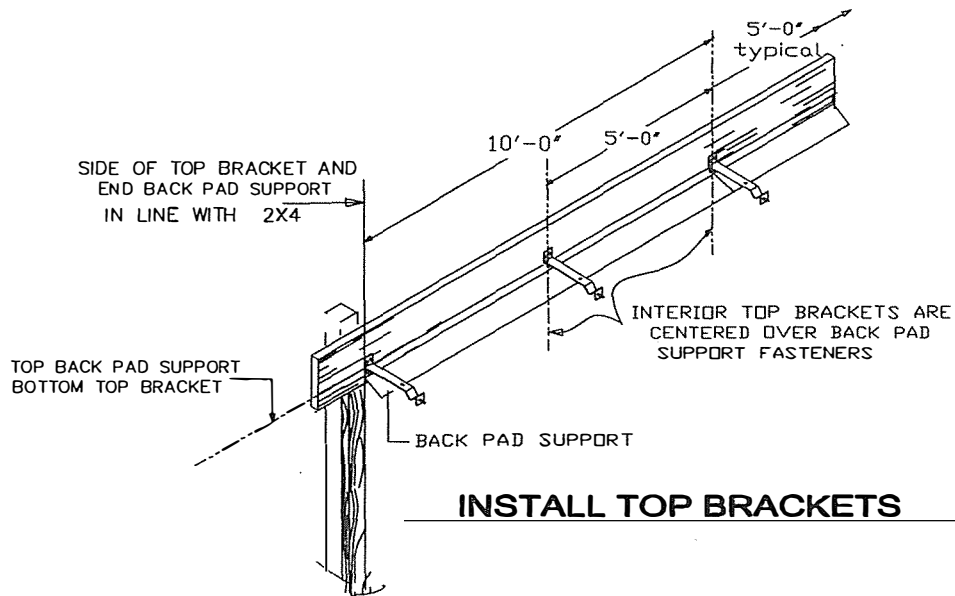
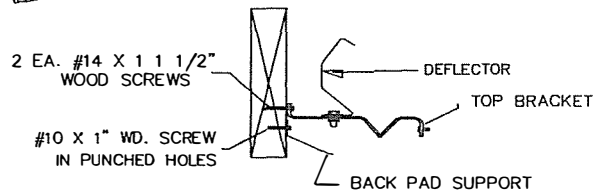


TABLE "C"

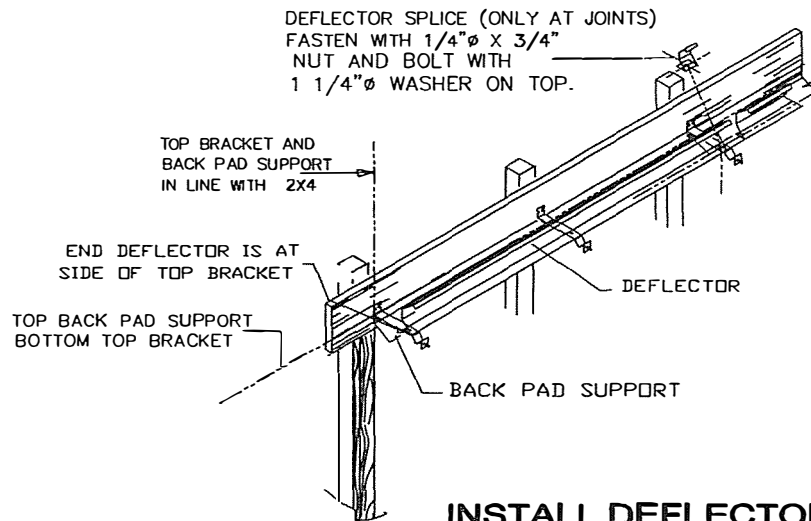
PAD HEIGHT	DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT	
	IN FT. & IN.	INCHES
3' - 0"	3' - 3 1/2"	39 1/2"
4' - 0"	4' - 3 1/2"	51 1/2"
5' - 0"	5' - 3 1/2"	63 1/2"
6' - 0"	6' - 3 1/2"	75 1/2"



INSTALL TOP BRACKETS



END VIEW



INSTALL DEFLECTOR

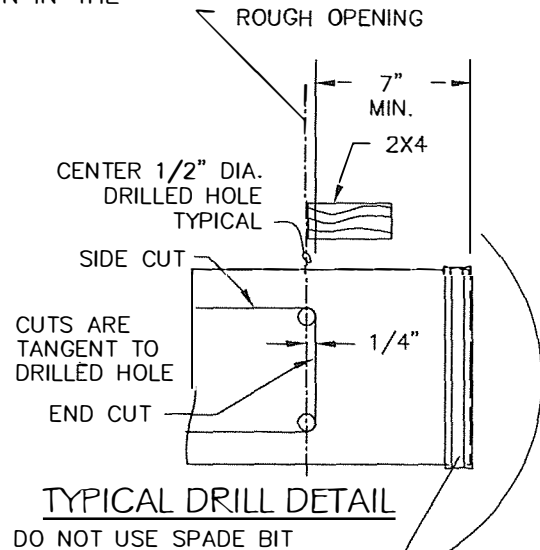
TROUGH FABRICATION

FOR CENTER- FEED SPLIT PAD SYSTEM

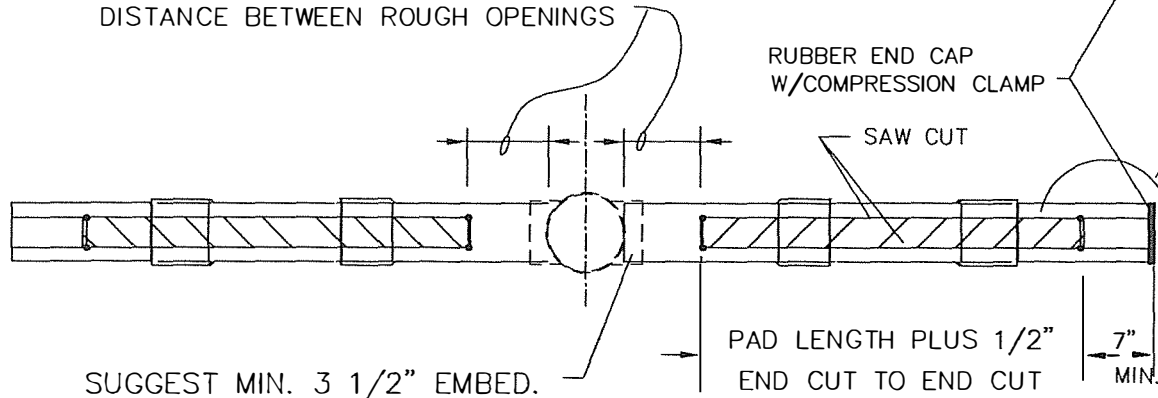
AFTER THE GLUE HAS DRIED PLACE THE ASSEMBLED PIPE ON THE BOTTOM BRACKETS EACH SIDE OF THE CENTER SUMP AND SLIDE THE PIPE AS REQUIRED TO MAKE SURE THE JOINS CLEAR THE BOTTOM BRACKETS. VERIFY A MINIMUM OF 7" PIPE EXTEND BEYOND THE ROUGH OPENINGS ON OUT SIDE EACH END. ALSO DOUBLE CHECK FLOW DIRECTION BEFORE LOCATING DRILL HOLES EACH CORNER. NOW DRILL 1/2" DIA. HOLES. SEE TYPICAL DRILL DETAIL.

NOW WITH THE HELP OF AN ASSISTANT START SIDE CUTS. USE A CIRCULAR SAW WITH PLYWOOD CUTTING BLADE. DO NOT ALLOW THE CUT SECTION TO SAG DOWN IN THE PIPE. WEDGE THE CUT SECTION AS REQUIRED. MAKE THE END CUTS LAST. DO NOT OVER CUT AT THE CORNERS.

Suggest Using Jig Saw to Cut Last Couple Inches at Corners



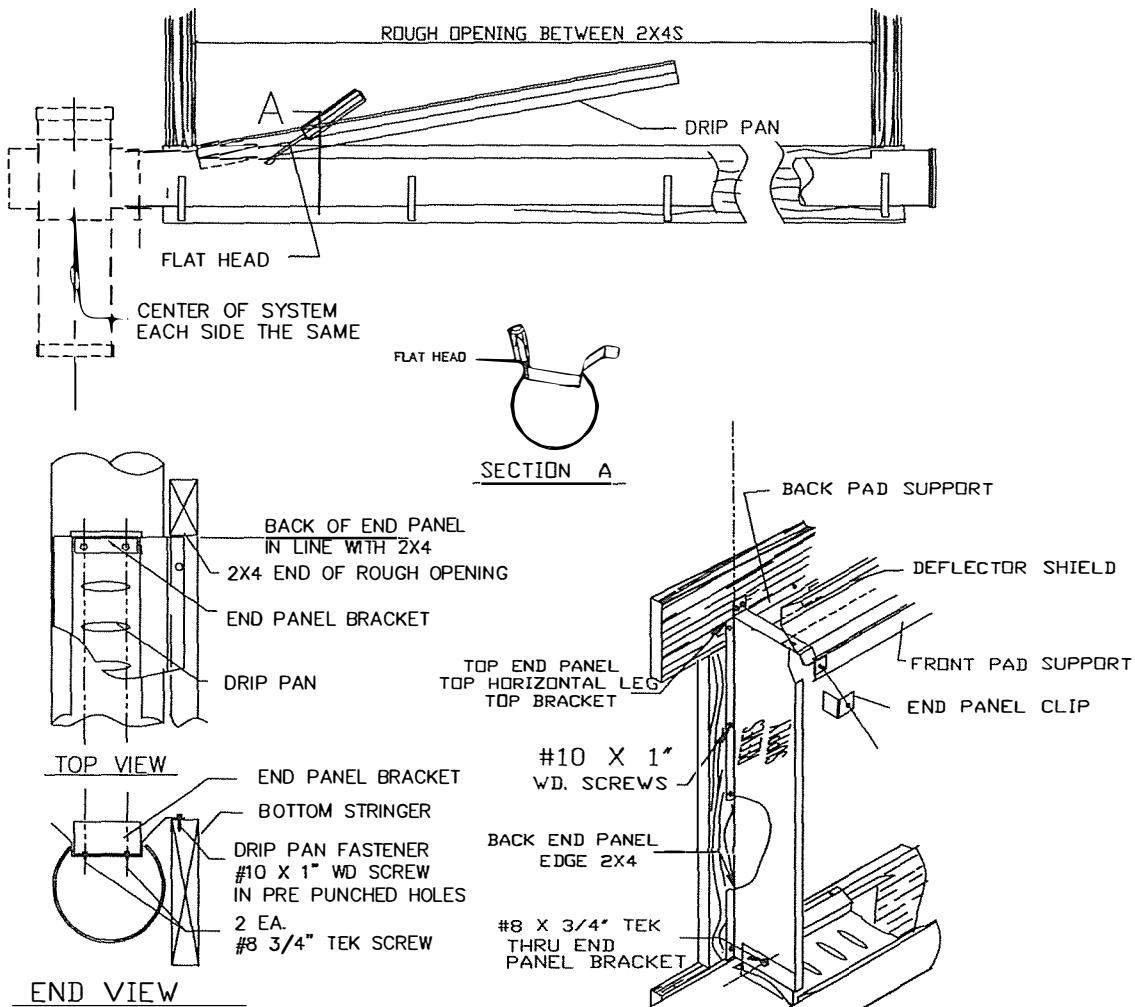
THIS LENGTH TO BE DETERMINED CONSIDERING SUMP DIAMETER AND DISTANCE BETWEEN ROUGH OPENINGS



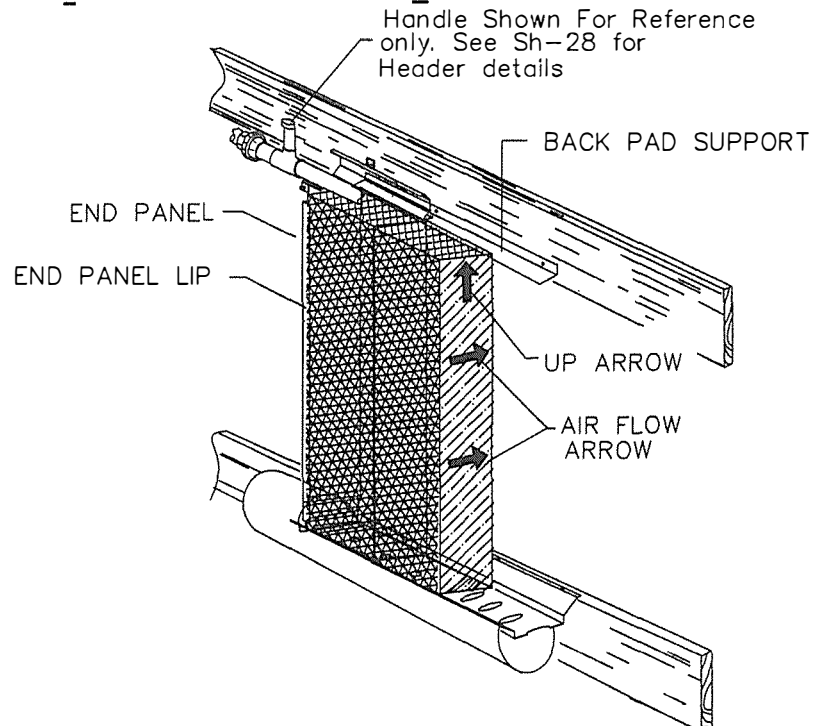
PLACE DRIP PAN IN TROUGH

THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN.

DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN" THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.



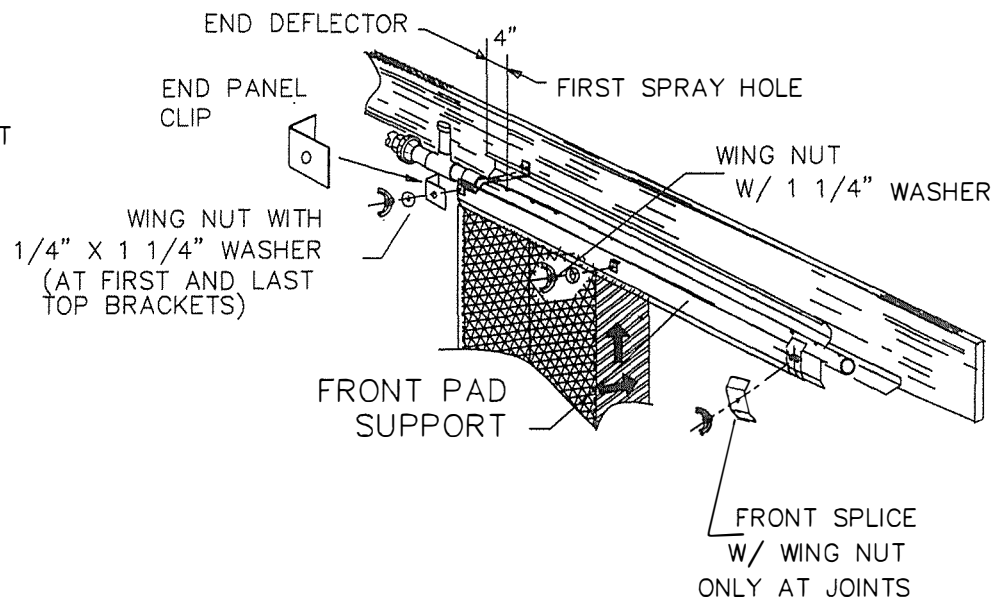
INSTALL PADS



NOTE: SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

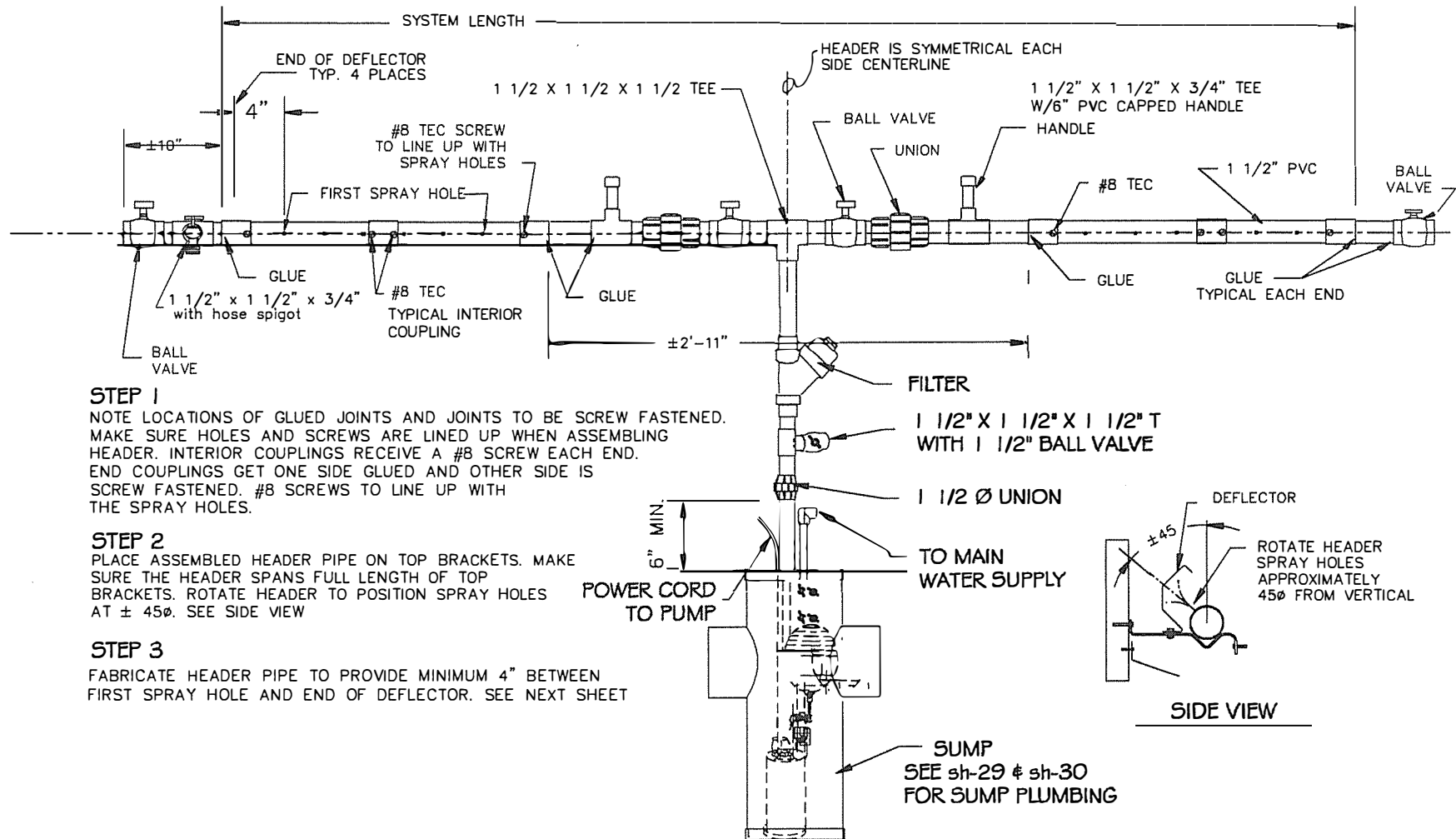
INSTALL FRONT PAD SUPPORT.



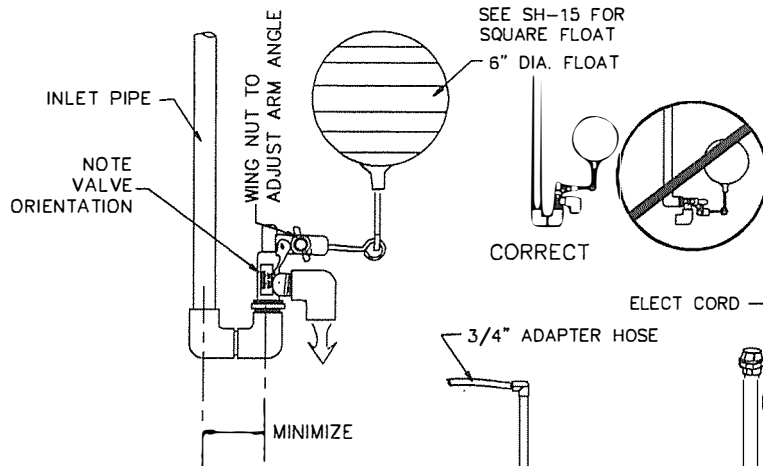
THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

NOTE: ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL

CENTER FEED SPLIT PAD HEADER FABRICATION



FLOAT VALVE ASSEMBLY PUMP ASSEMBLY

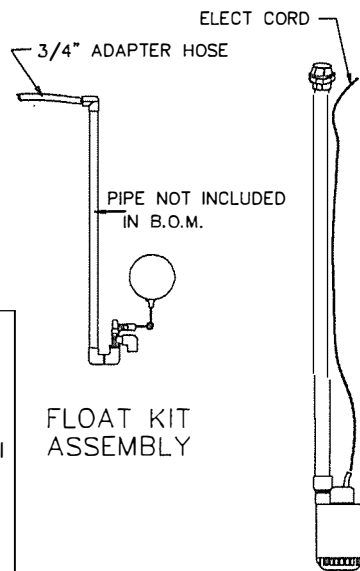


ENLARGED ASSEMBLY
SEE NEXT SHEET FOR
FLOAT VALVE ROTATION

2 (TWO) KITS PROVIDED
Each Float Kit Includes

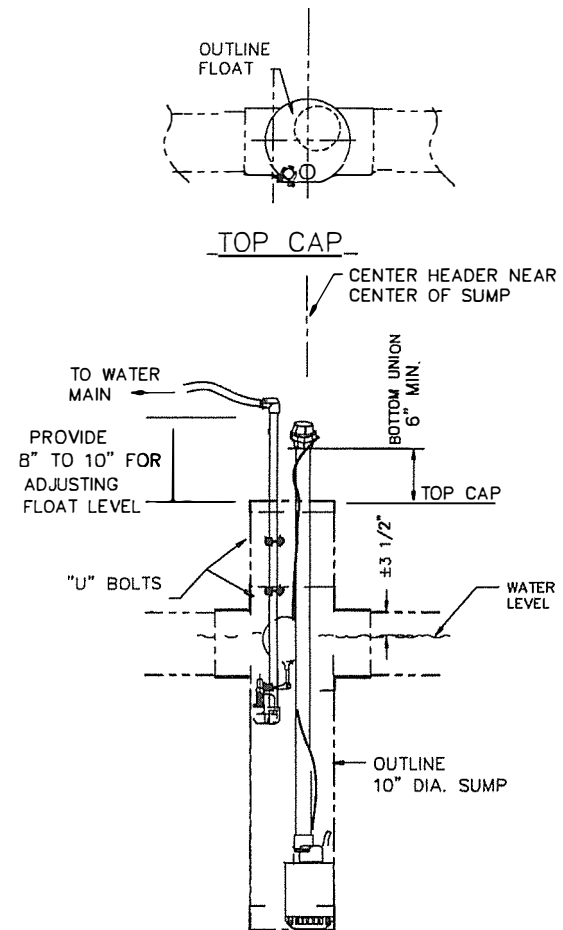
- 1-3/4" Float Valve
- 1-6" dia. Black Plastic Float Ball
- 2-90° Elbow SxS
- 2- 3/4" MGT Adapter Hose
- 2- U Bolts
- 4- Nylon Wing Nuts
- 2-1/4" Eye Bolts pre

* 3/4 PVC Pipe not included



FLOAT KIT
ASSEMBLY

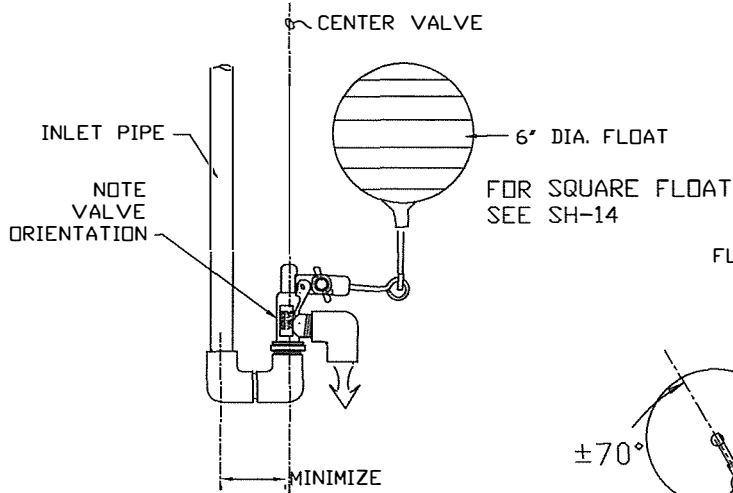
PUMP
ASSEMBLY



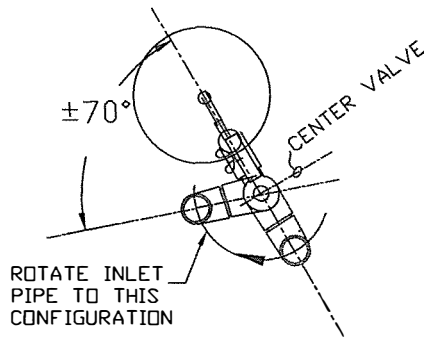
COMBINED ASSEMBLY
SHOWN IN 10" SUMP

FLOAT VALVE ASSEMBLY CONFIGURATION

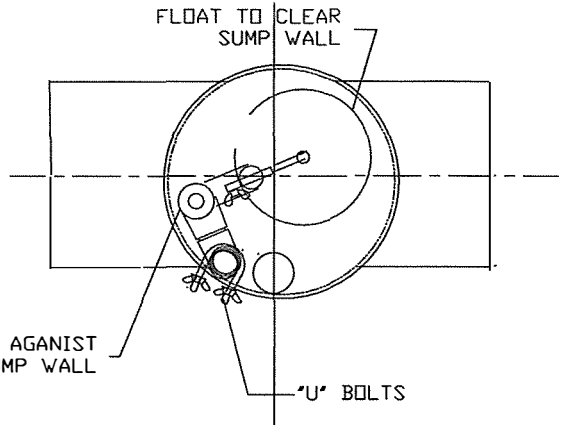
NOTE; THE VALVE SHOULD
BE PLACED AGAINST THE
SUMP WALL FOR IDEAL
FLOAT VALE FUNCTIONING.



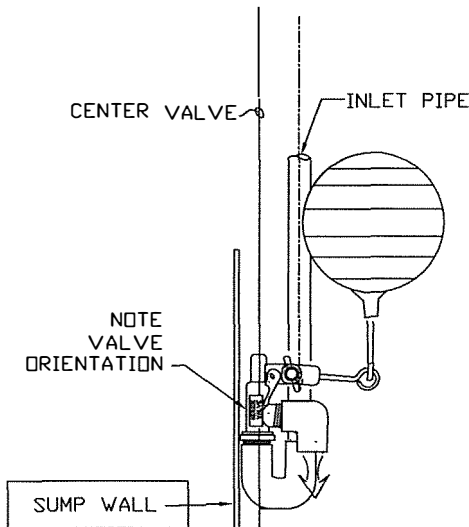
FLOAT VALVE ASSEMBLY
BEFORE ROTATING



TOP VIEWS



TOP SUMP VIEWS

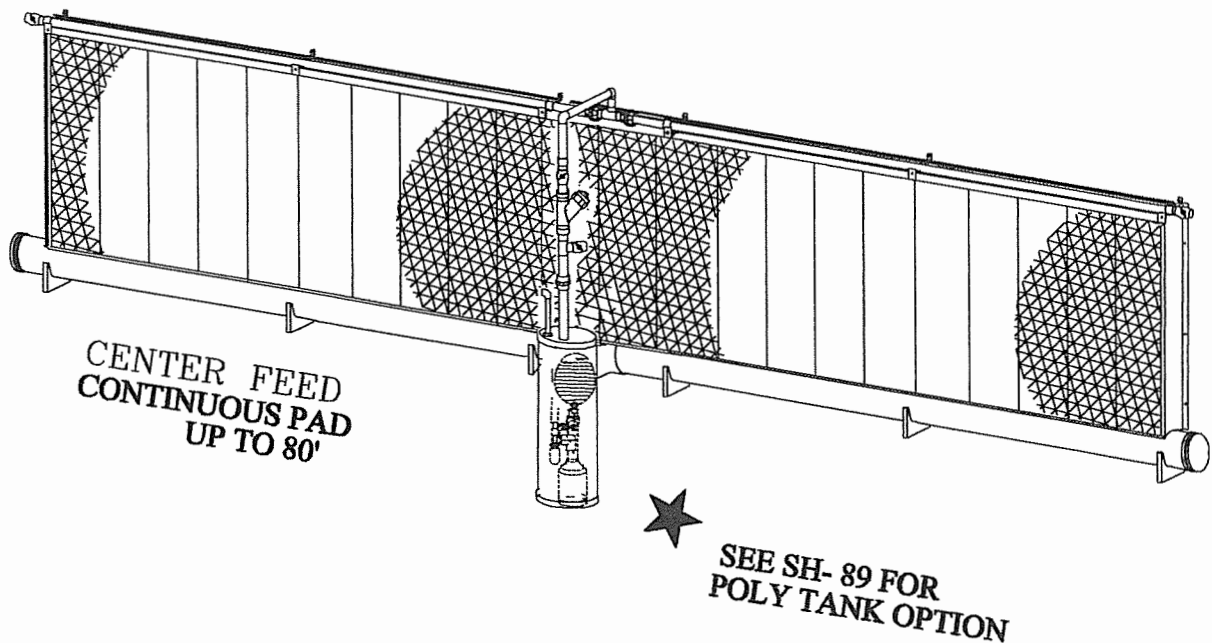


FLOAT VALVE ASSEMBLY
MOST COMPACT
MUST USE THIS ARRANGEMENT
FOR 10" SUMP AND 10" CROSS SUMP

TABLE OF CONTENTS

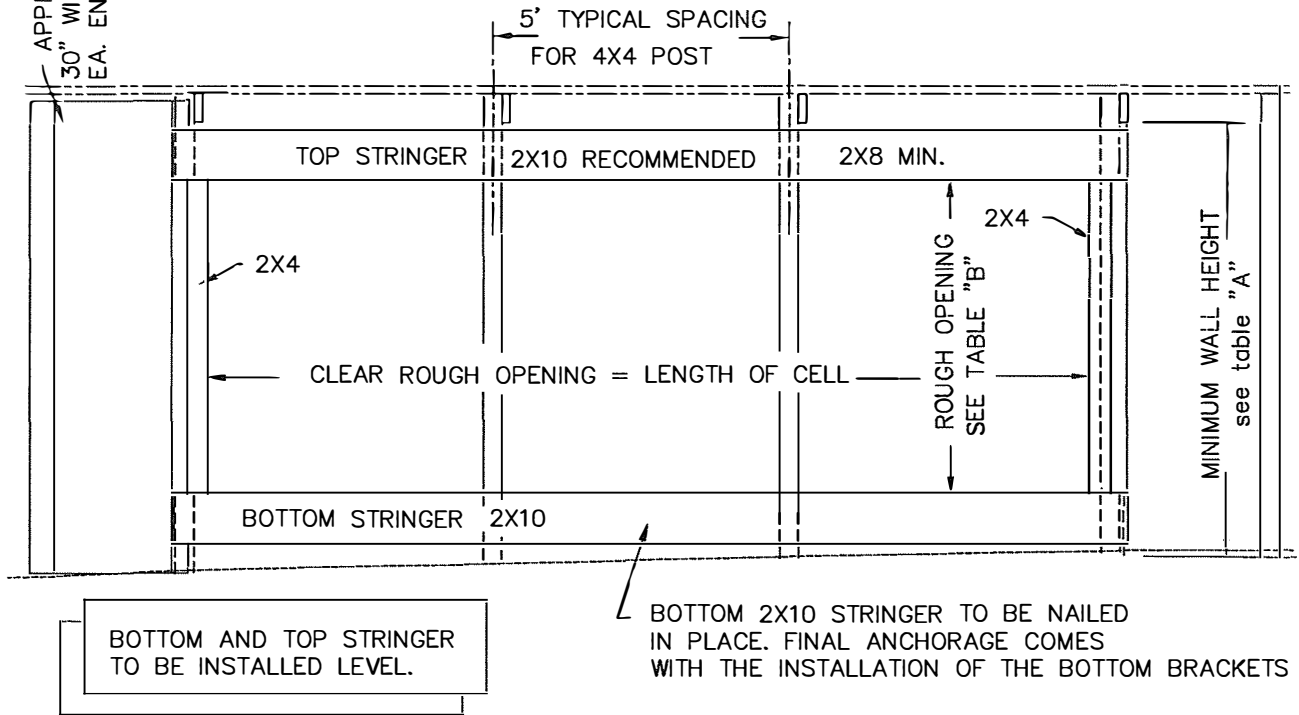
sheet no.

Center Feed Continious Pad Contents -----	31
Framing Elevation & Section -----	32
Assemble and Glue 8" Pipe Trough -----	33
Install Back Pad Support -----	34
Install Top Brackets & Deflector -----	35
Trough Fabrication Details , Trough Cutting & Drip Pan Installation -----	36
Cut Pipe for drip Pan -----	37
End Panel Brackets & End Panels -----	38
Install Pads and Front Panel -----	39
Header (Distribution) Pipe For Center Feed Continuous Pad System -----	40
Pump Assembly With Float valve -----	41
Float Valve Canfigurations -----	42
Square Float Valve Configurations -----	43



TYPICAL FRAMING DETAILS

USE PRESSURE TREATED LUMBER



MINIMUM WALL HEIGHT
PAD HEIGHT + 16" = "A"

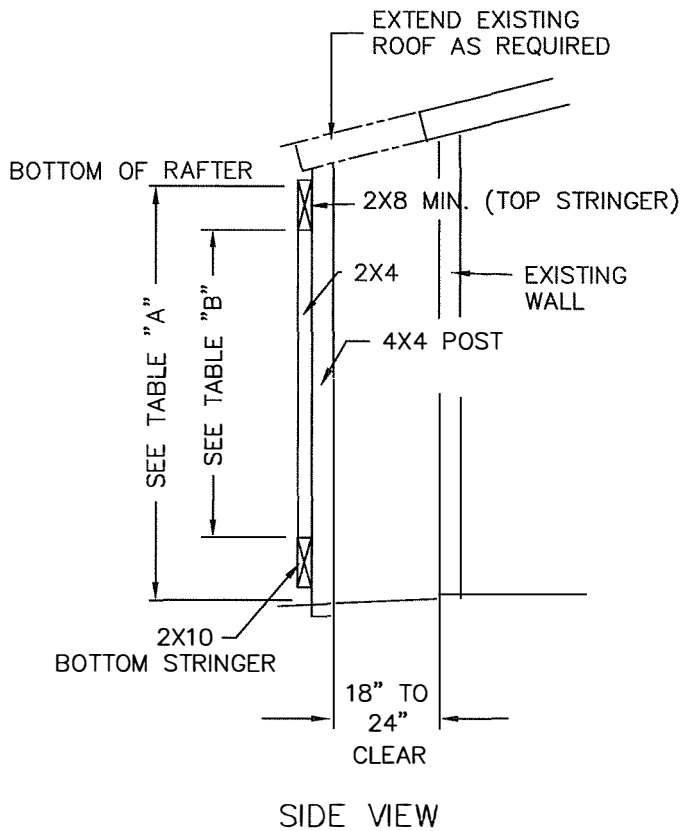
TABLE "A"

PAD HEIGHT	OVERALL WALL HEIGHT	
	in FEET & IN	in INCHES
3' - 0"	4' - 4"	52"
4' - 0"	5' - 4"	64"
5' - 0"	6' - 4"	76"
6' - 0"	7' - 4"	88"

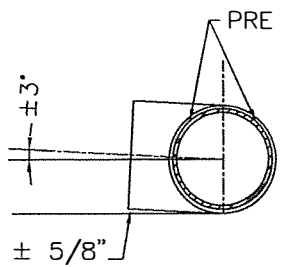
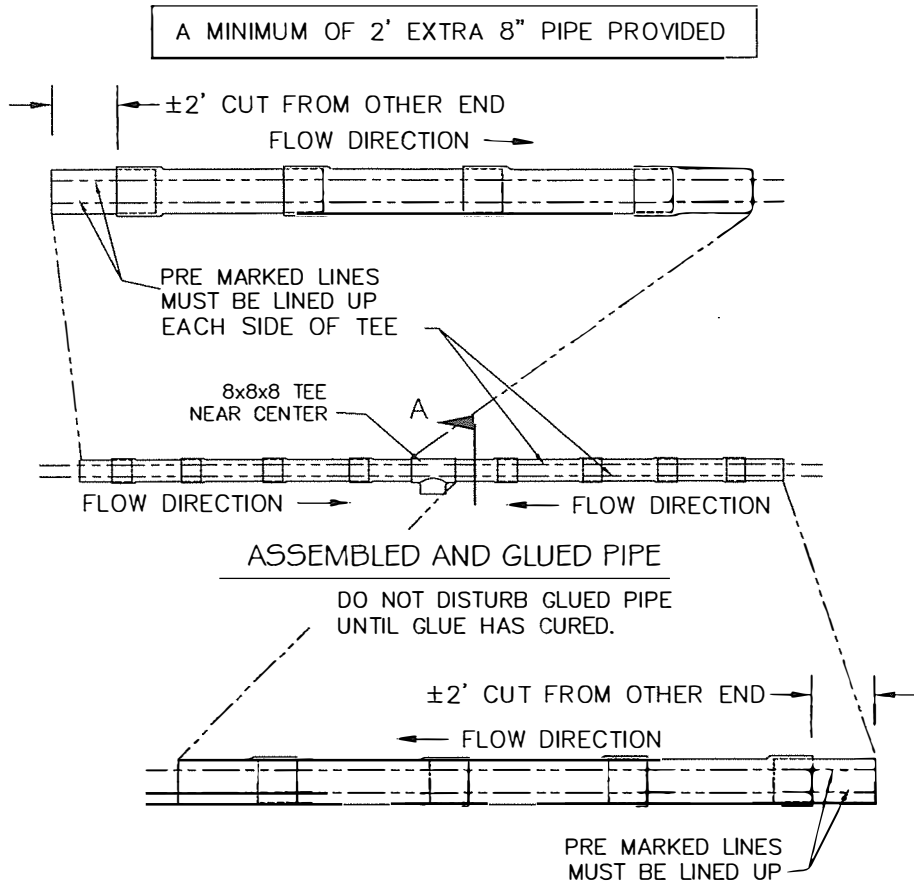
ROUGH OPENING HEIGHT
PAD HEIGHT - 3" = "B"

TABLE "B"

PAD HEIGHT	CLEAR BETWEEN 2X10	
	in FEET & IN	in INCHES
3' - 0"	2' - 9"	33"
4' - 0"	3' - 9"	45"
5' - 0"	4' - 9"	57"
6' - 0"	5' - 9"	69"



GLUE 8" PIPE TROUGH CENTER-FEED CONTINUOUS PAD SYSTEM



SECTION A

WHEN ASSEMBLING THE 8" PIPE WITH CENTER TEE THE TEE SHOULD BE ROTATED SLIGHTLY UPWARDS. THE REASON BEING THE DRIP PAN IS SLIGHTLY WIDER THAN THE CUT. WHEN THE DRIP PAN IS WORKED IN THE CUT OUT THE TEE WILL LEVEL OUT WHEN STREACHED OUT.

DO NOT ROTATE THE PIPE.
ROTATE ONLY THE TEE.

INSTALL BACK PAD SUPPORT

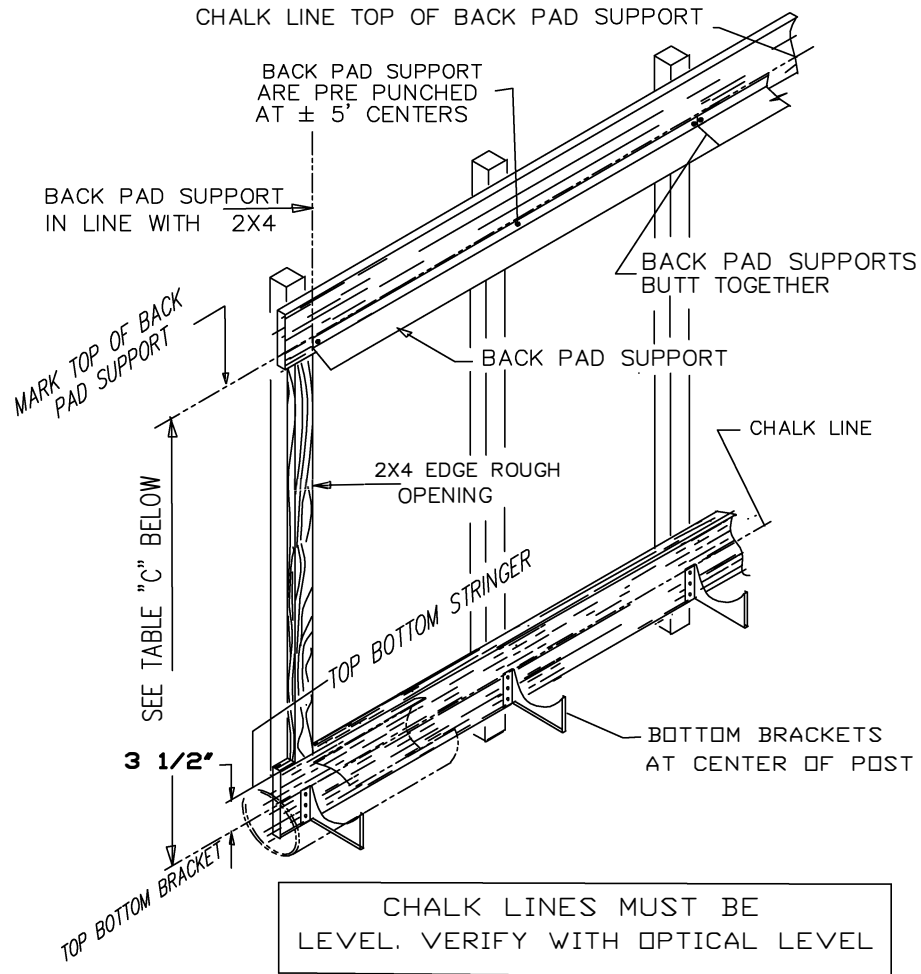
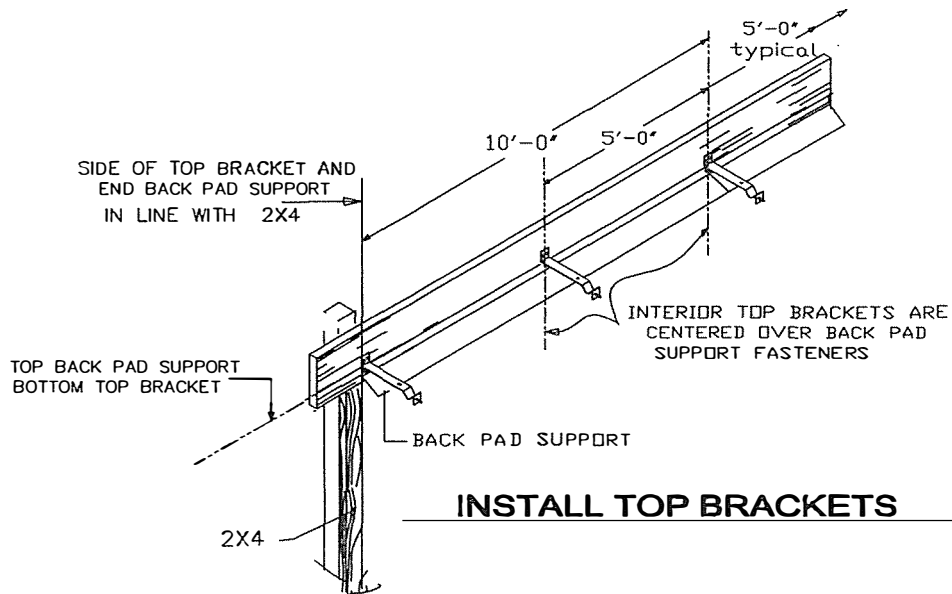
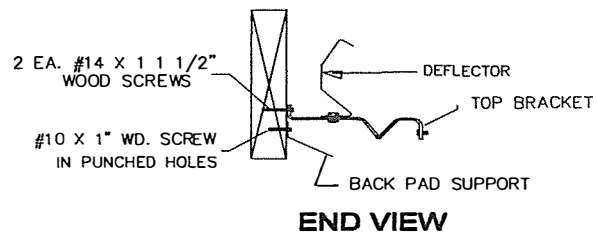


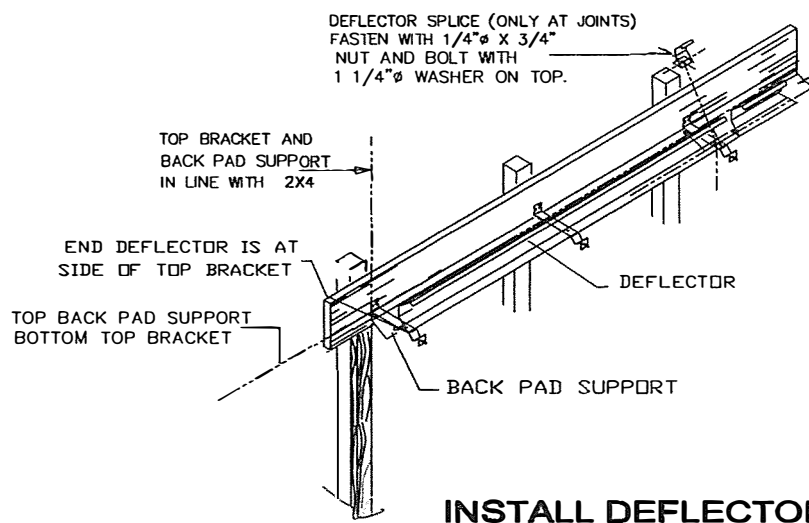
TABLE "C"		
PAD HEIGHT	DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT	
	IN FT. & IN.	INCHES
3' - 0"	3' - 3 1/2"	39 1/2"
4' - 0"	4' - 3 1/2"	51 1/2"
5' - 0"	5' - 3 1/2"	63 1/2"
6' - 0"	6' - 3 1/2"	75 1/2"



INSTALL TOP BRACKETS



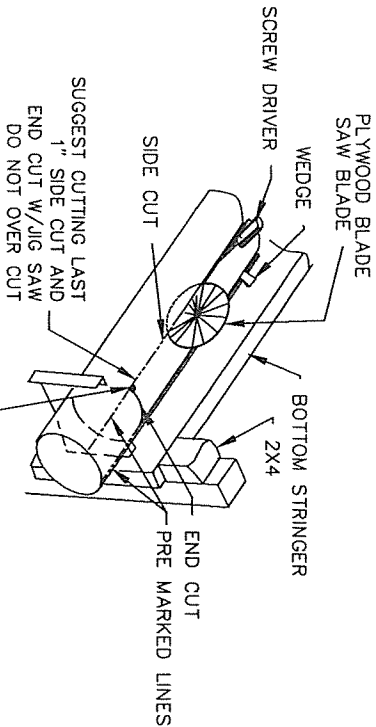
END VIEW



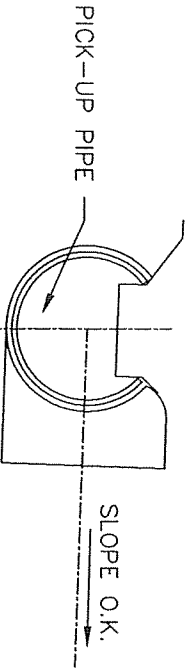
INSTALL DEFLECTOR

TROUGH FABRICATION DETAILS

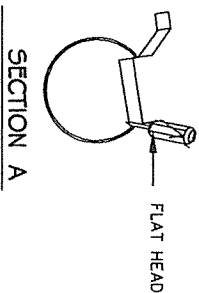
TROUGH CUTTING TECHNIQUES



PIPE SECTION AT TEE BEFORE DRIP PAN



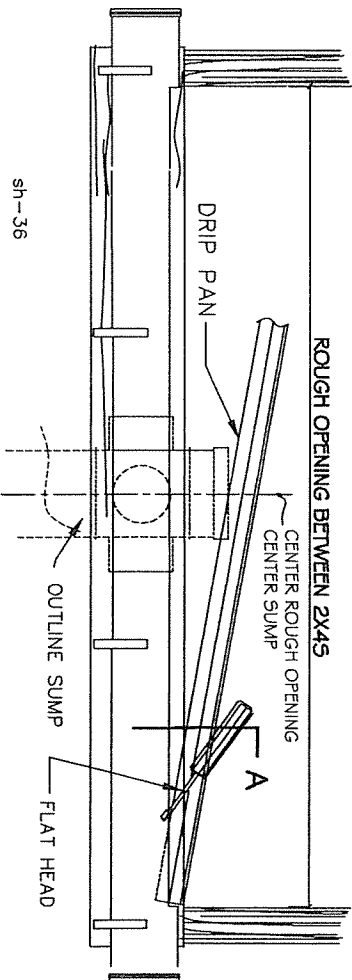
AFTER PICK-UP PIPE AND PAN HAVE BEEN
INSTALLED A SLIGHT DOWNWARD SLOPE OF TEE
AND PICK-UP LINE IS O.K.



TROUGH CUTTING TECHNIQUES
THE ABOVE SKETCH ILLUSTRATES STEPS OF
HOW TO CUT THE PIPE TO AVOID PINCHING
THE SAW BLADE. IN GENERAL, THE GOAL IS TO PREVENT THE
CUT OUT SECTION FROM SAGGING DOWN INTO THE PIPE
SAGGING DOWN INTO THE PIPE THUS PINCHING THE SAW BLADE
RESULTING IN KICK BACK AND POSSIBLY SPLIT THE PIPE

PLACE DRIP PAN IN TROUGH

THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN,
DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE
THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN"
THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN
PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT
ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.

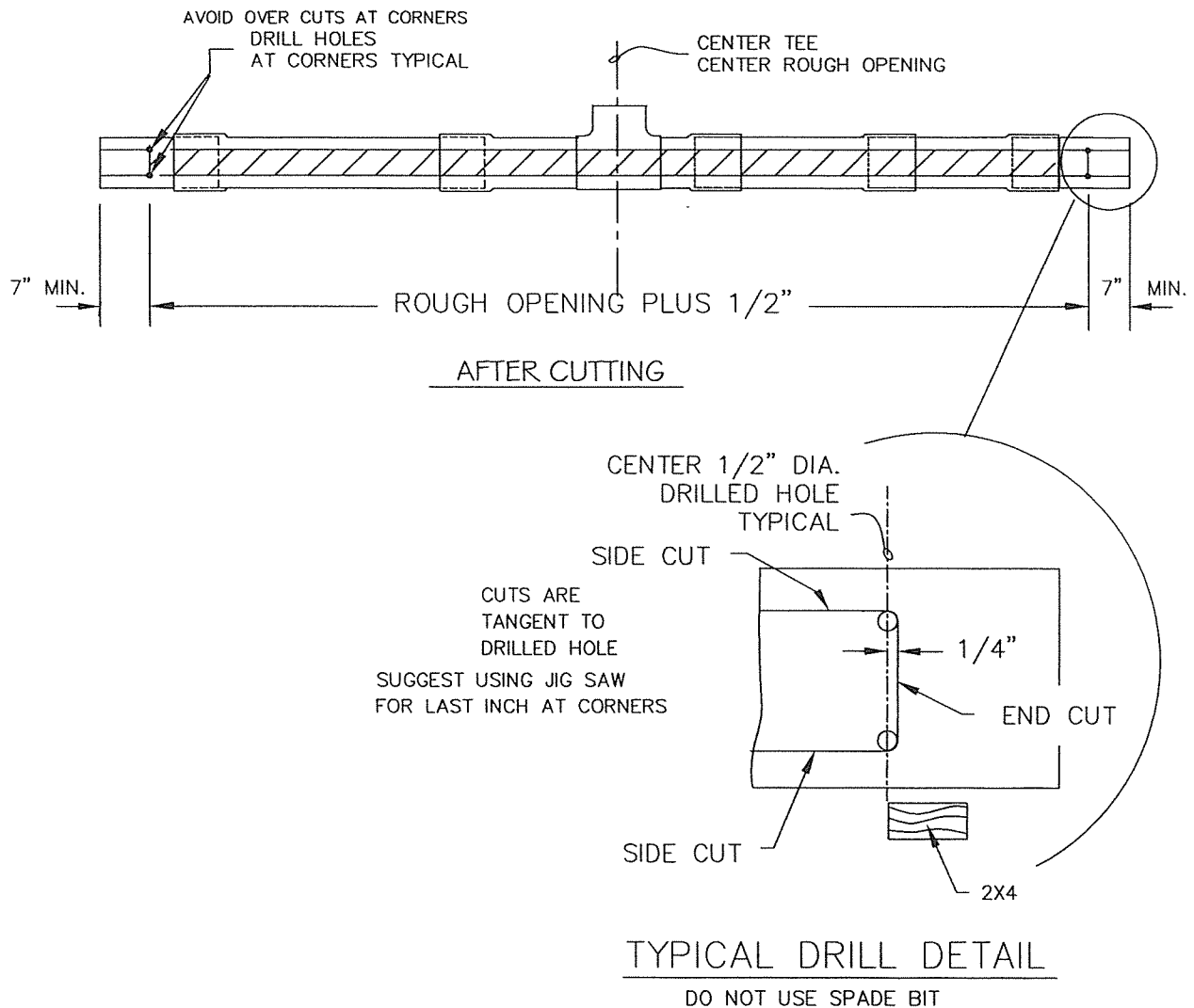


CUT PIPE FOR DRIP PAN

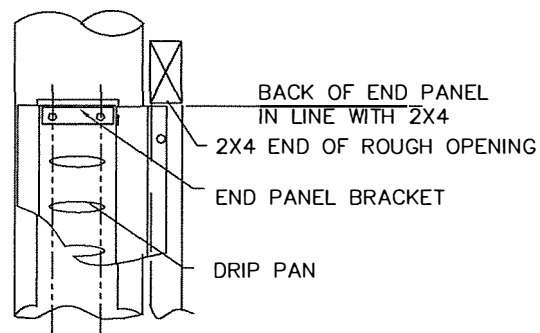
FOR CONTINUOUS PAD SYSTEMS

SEE SH-36 BEFORE CUTTING PIPE

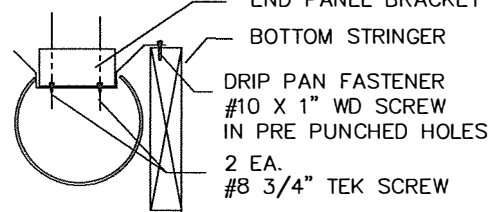
AFTER THE GLUE HAS DRIED PLACE THE ASSEMBLED PIPE ON THE BOTTOM BRACKETS AND SLIDE ASSEMBLY AS REQUIRED TO MAKE SURE THE JOINTS CLEAR THE BOTTOM BRACKETS. NOW LOCATE THE 4 CORNERS OF CUT OUT. DRILL 1/2" DIA. HOLES AT CORNERS. MAKE SURE EDGE OF HOLES ARE TANGENT TO SIDE CUTS AND END CUTS. SEE TYPICAL DRILL DETAIL BELOW.



Reeves Supply Co. 1-888 854 5221
130 Dickerson Road Franklin Georgia 30217

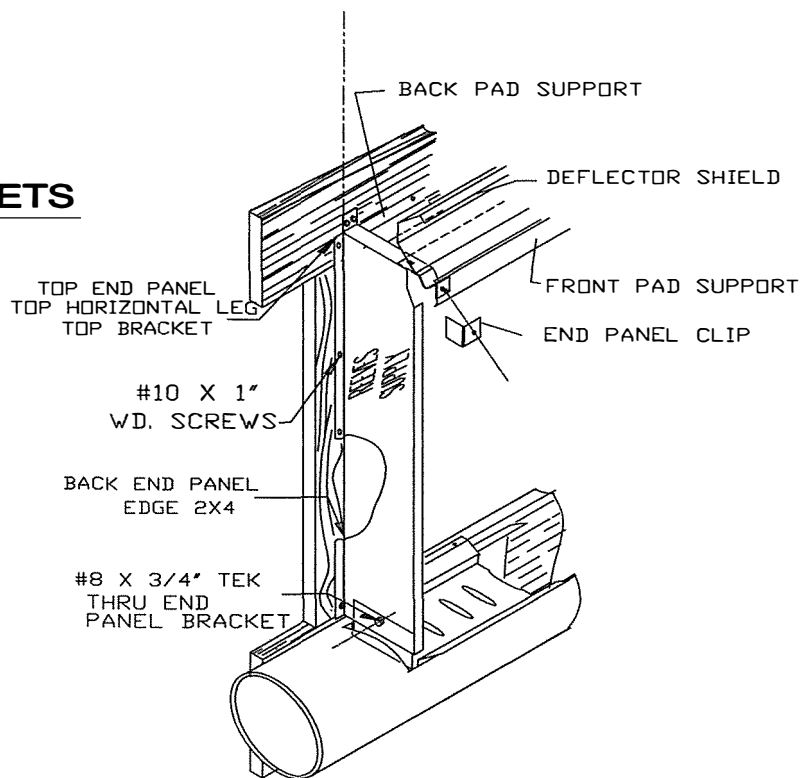


TOP VIEW



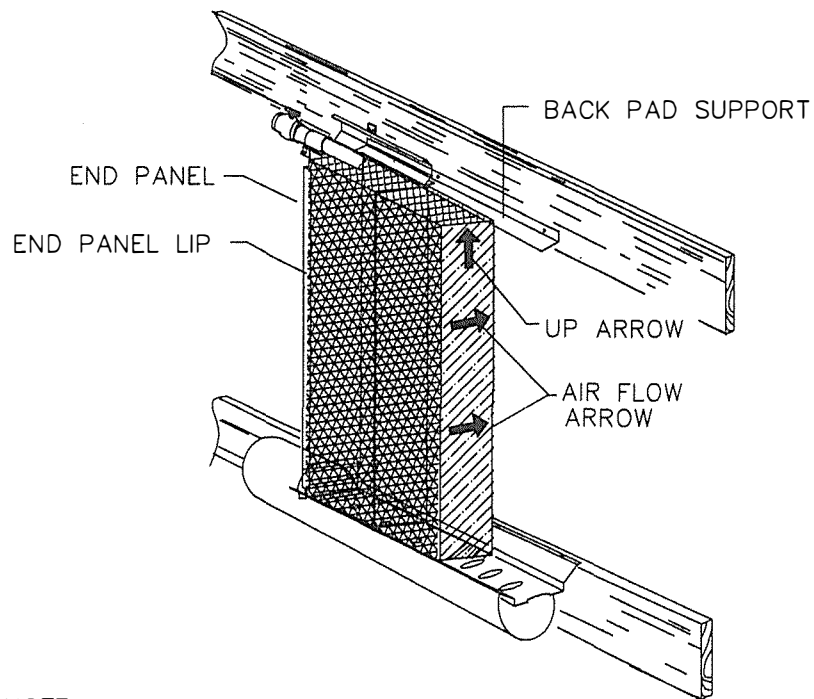
END VIEW

INSTALL END PANELS BRACKETS



INSTALL END PANELS BOTH ENDS

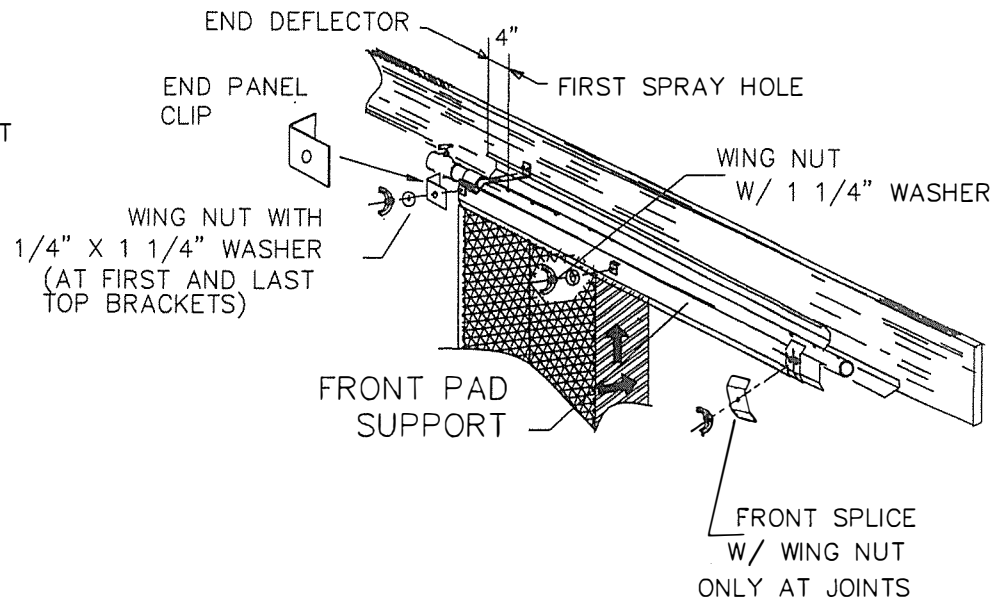
INSTALL PADS



NOTE: SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

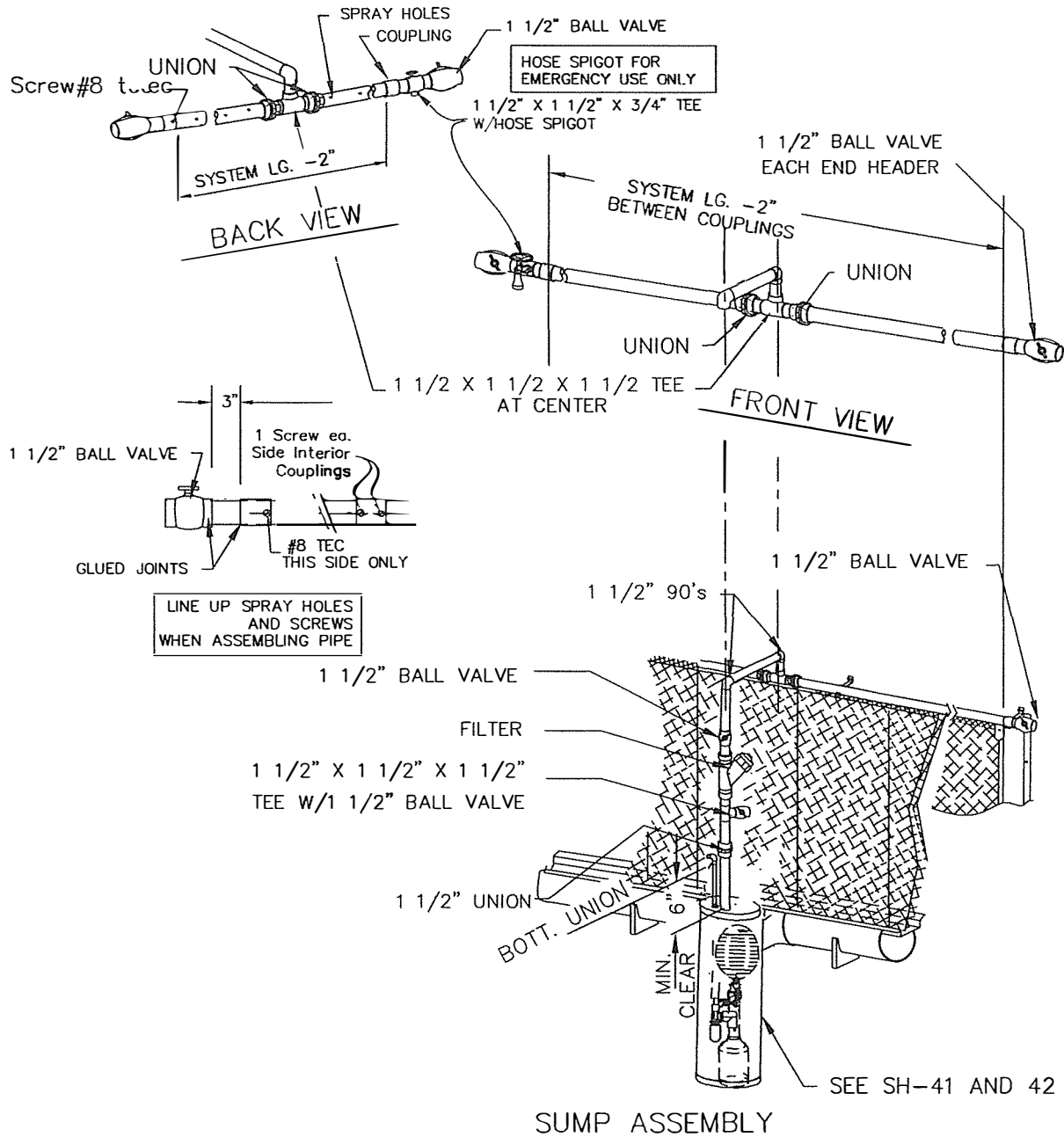
INSTALL FRONT PAD SUPPORT



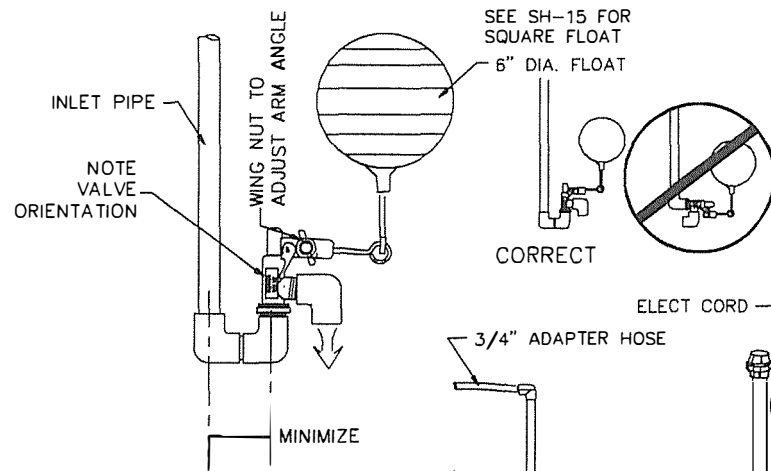
THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

NOTE; ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL

HEADER PIPE FOR CENTER FEED CONTINUOUS PAD



FLOAT VALVE ASSEMBLY PUMP ASSEMBLY

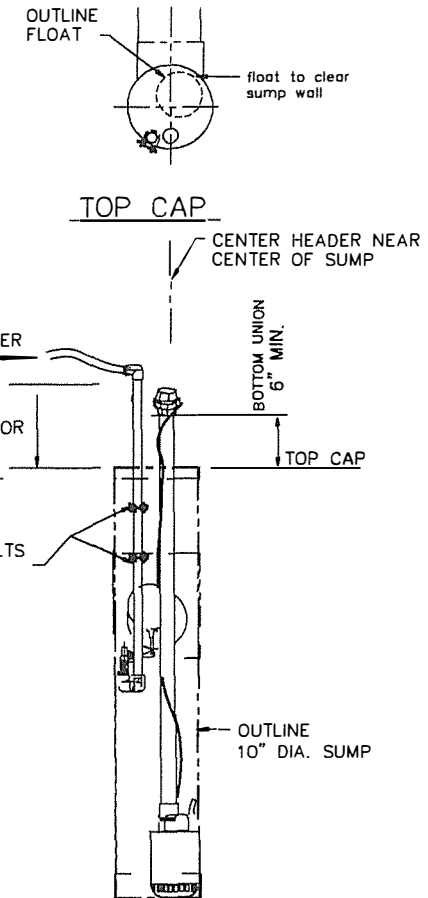
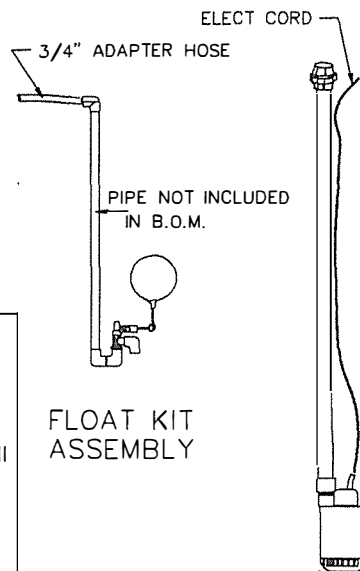


ENLARGED ASSEMBLY
SEE NEXT SHEET FOR
FLOAT VALVE ROTATION

2 (TWO) KITS PROVIDED
Each Float Kit Includes

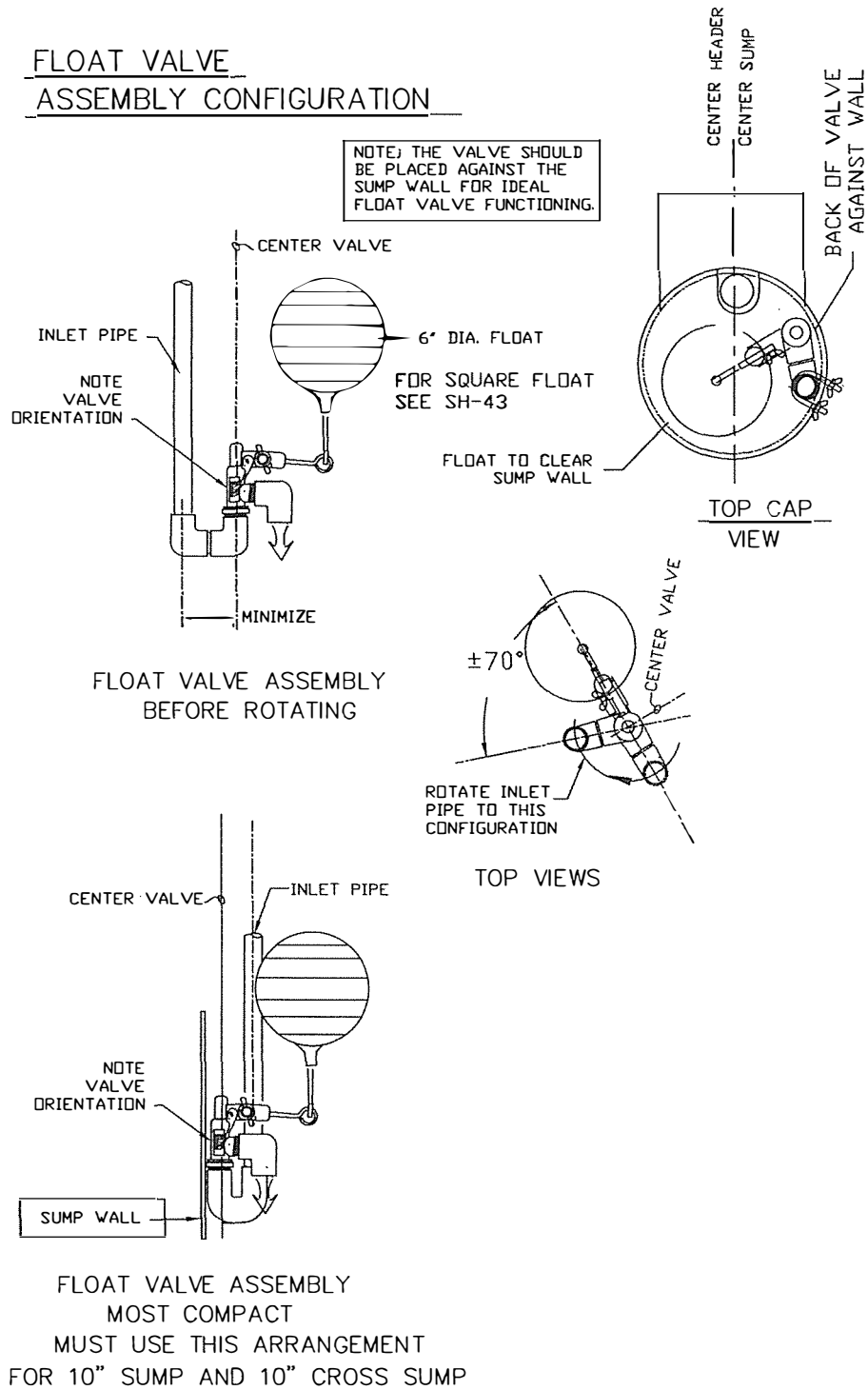
- 1-3/4" Float Valve
- 1-6" dia. Black Plastic Float Ball
- 2-90° Elbow SxS
- 2- 3/4" MGT Adapter Hose
- 2- U Bolts
- 4- Nylon Wing Nuts
- 2-1/4" Eye Bolts pre

* 3/4 PVC Pipe not included



COMBINED ASSEMBLY
SHOWN IN 10" SUMP

FLOAT VALVE ASSEMBLY CONFIGURATION



SQUARE FLOAT & VALVE ASSEMBLY

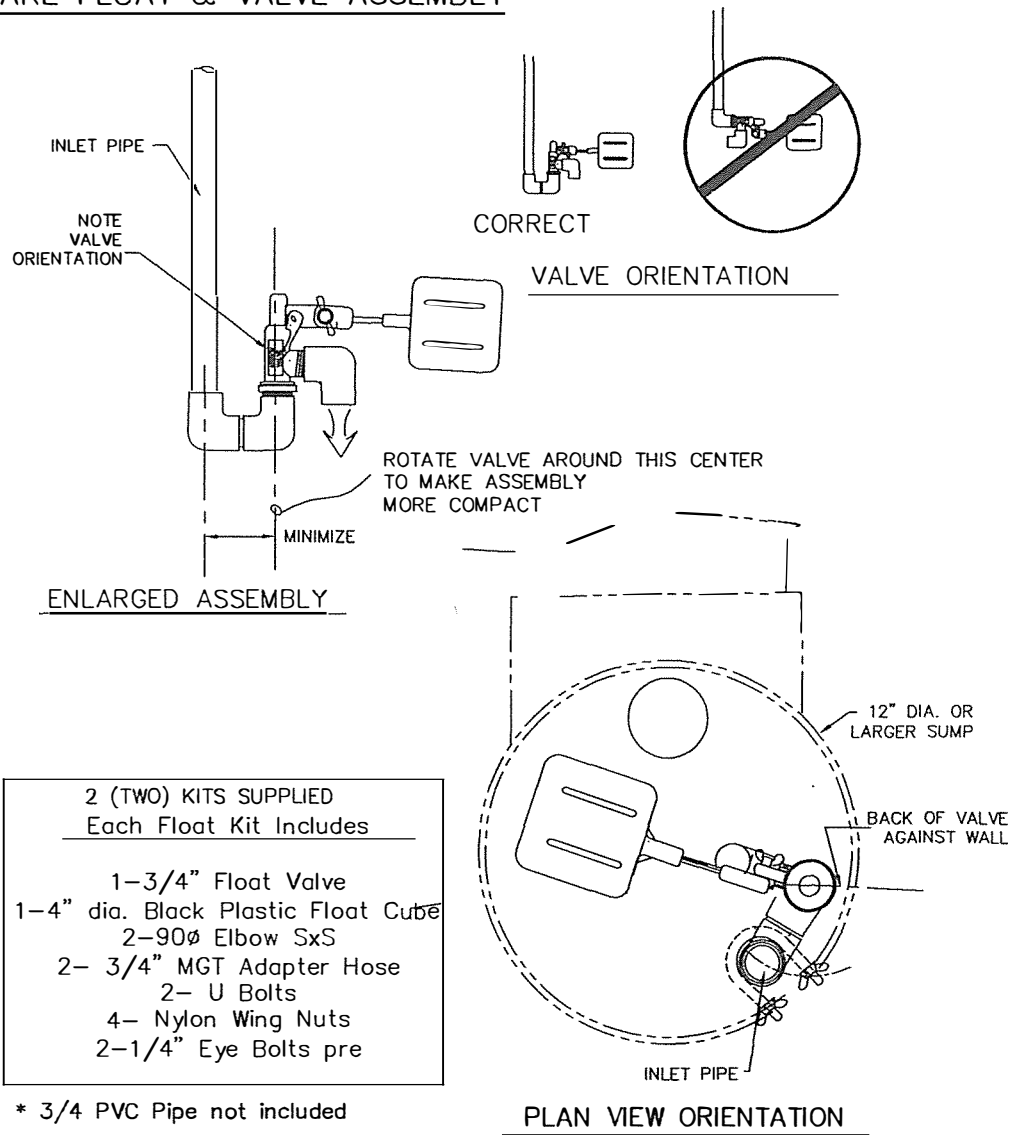
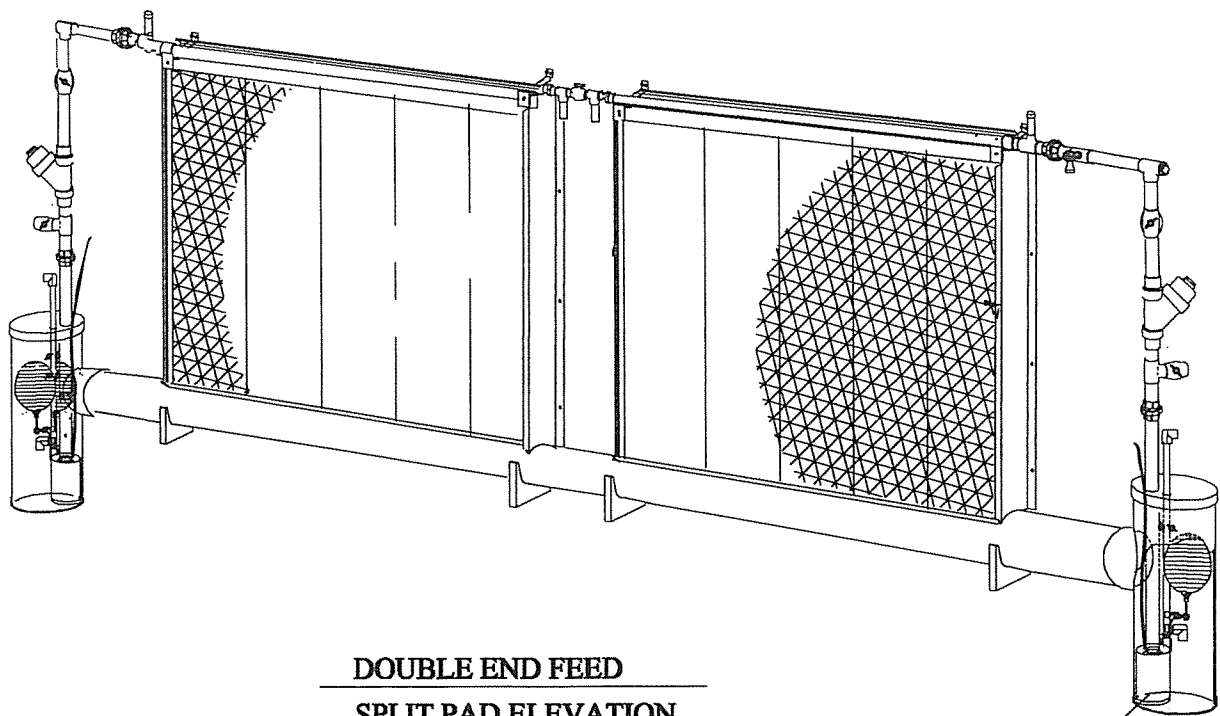


TABLE OF CONTENTS

	sheet no.
Double End Feed Split Pad Contents -----	44
Framing Elevation & Sections -----	45
Assemble and Glue 8" Pipe Trough -----	46
Install Back Pad Support -----	47
Install Top Brackets & Deflector ----	48
Trough Fabrication For Split Pad Dbl End Feed Systems -----	49
Install drip pan in Trough and End Brackets -----	50
Header (Distribution) Pipe Detail and finished Elevation with Sections ----	51
Install Pads and Front Panel -----	52
Sump Types and Supply Header -----	53
Pump Header Assembly & Float Valve Assembly -----	54
Float Valve Configuration -----	55
Square Float Configuration -----	56



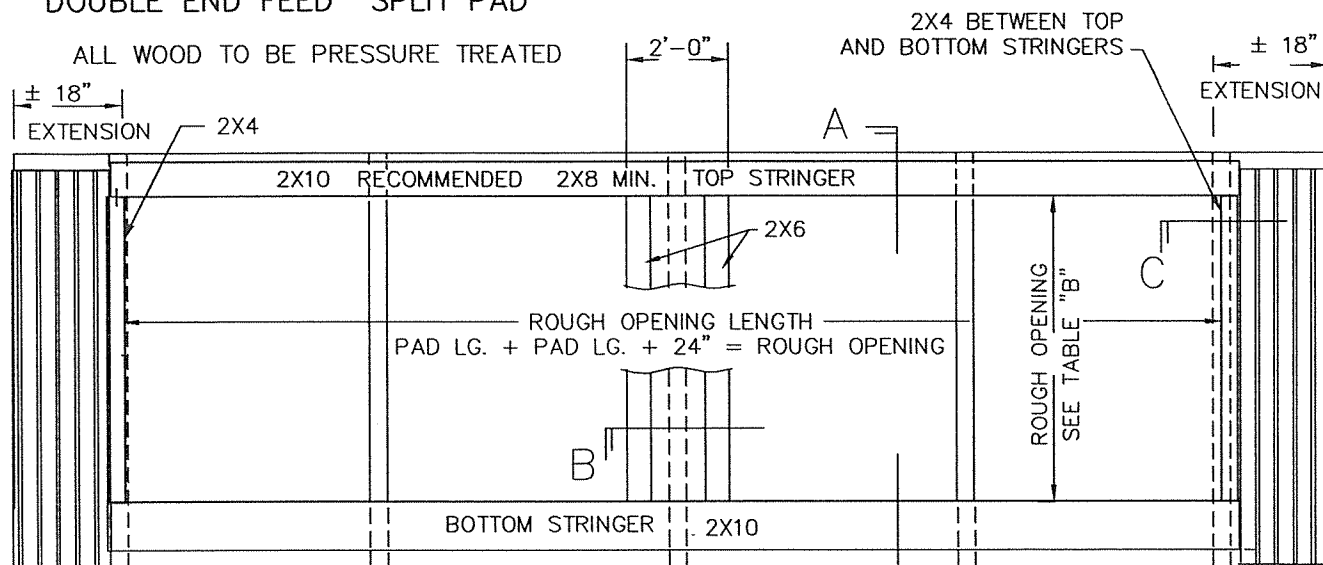
DOUBLE END FEED
SPLIT PAD ELEVATION

80' TO 160'

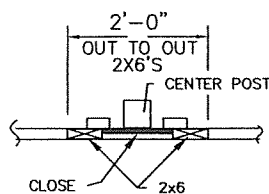
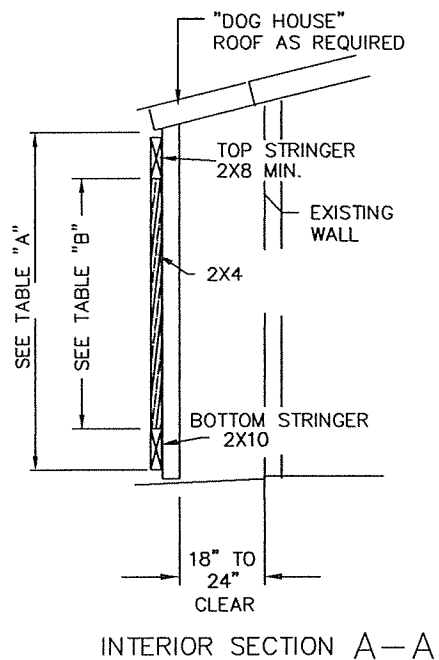
SEE sh-85 for
POLY TANK option

FRAMING ELEVATION & SECTIONS

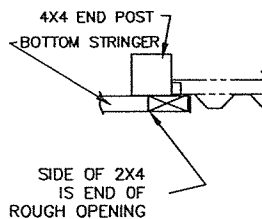
DOUBLE END FEED SPLIT PAD



BOTTOM 2X10 STRINGER TO BE NAILED IN PLACE INITIALLY. FINAL ANCHORAGE COMES WITH THE INSTALLATION OF THE BOTTOM BRACKETS



SECTION B



SECTION C

MINIMUM WALL HEIGHT
PAD HEIGHT + 16" = "A"

PAD HEIGHT	OVERALL WALL HEIGHT	
	in FEET & IN	in INCHES
3' - 0"	4' - 4"	52"
4' - 0"	5' - 4"	64"
5' - 0"	6' - 4"	76"
6' - 0"	7' - 4"	88"

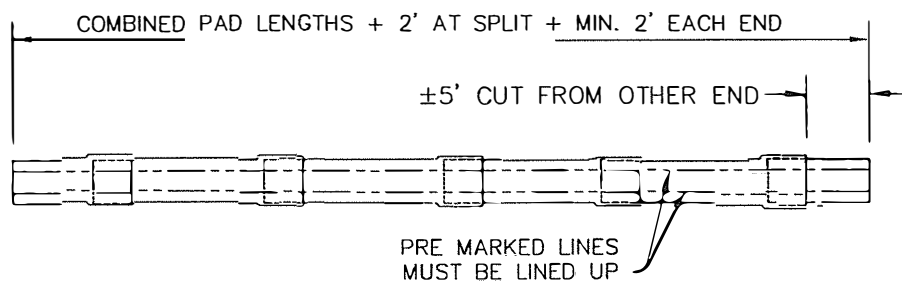
ROUGH OPENING HEIGHT
PAD HEIGHT - 3" = "B"

PAD HEIGHT	CLEAR BETWEEN 2X10	
	in FEET & IN	in INCHES
3' - 0"	2' - 9"	33"
4' - 0"	3' - 9"	45"
5' - 0"	4' - 9"	57"
6' - 0"	5' - 9"	69"

GLUE 8" TROUGH FOR DOUBLE END FEED SPLIT PAD SYSTEM

DO NOT DISTURB GLUED PIPE
UNTIL GLUE HAS CURED.

A MINIMUM OF 5' EXTRA 8" PIPE PROVIDED



INSTALL BACK PAD SUPPORT

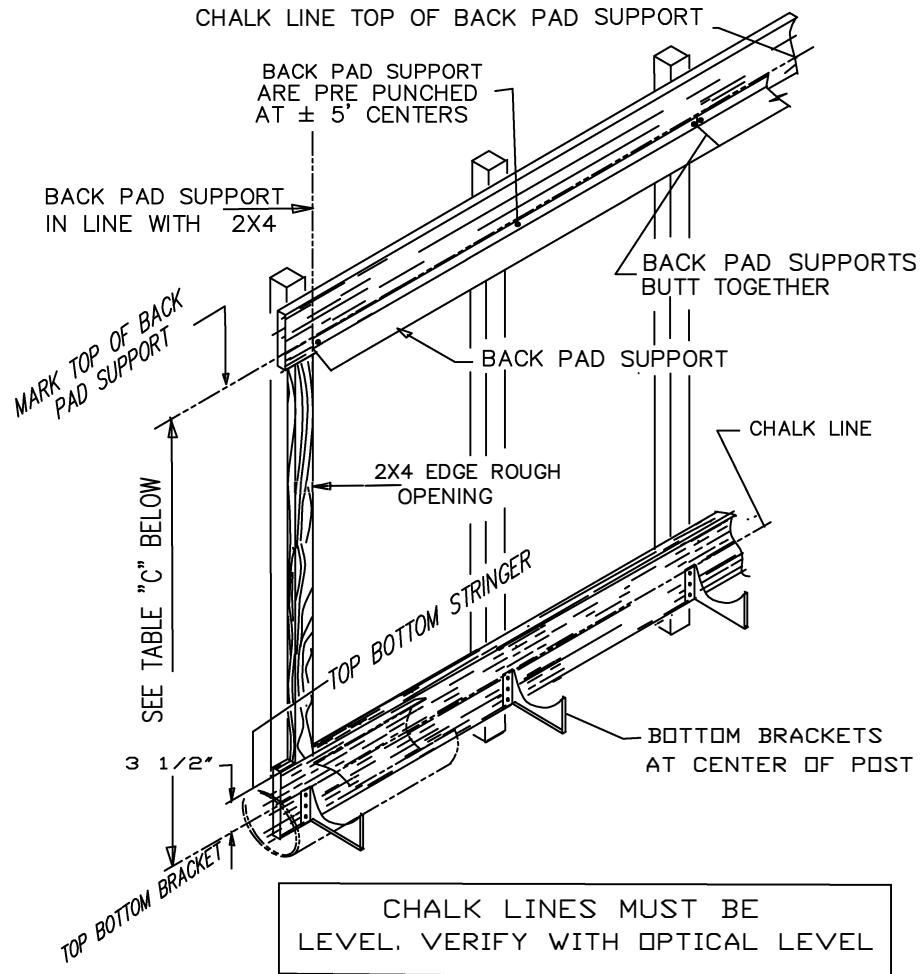
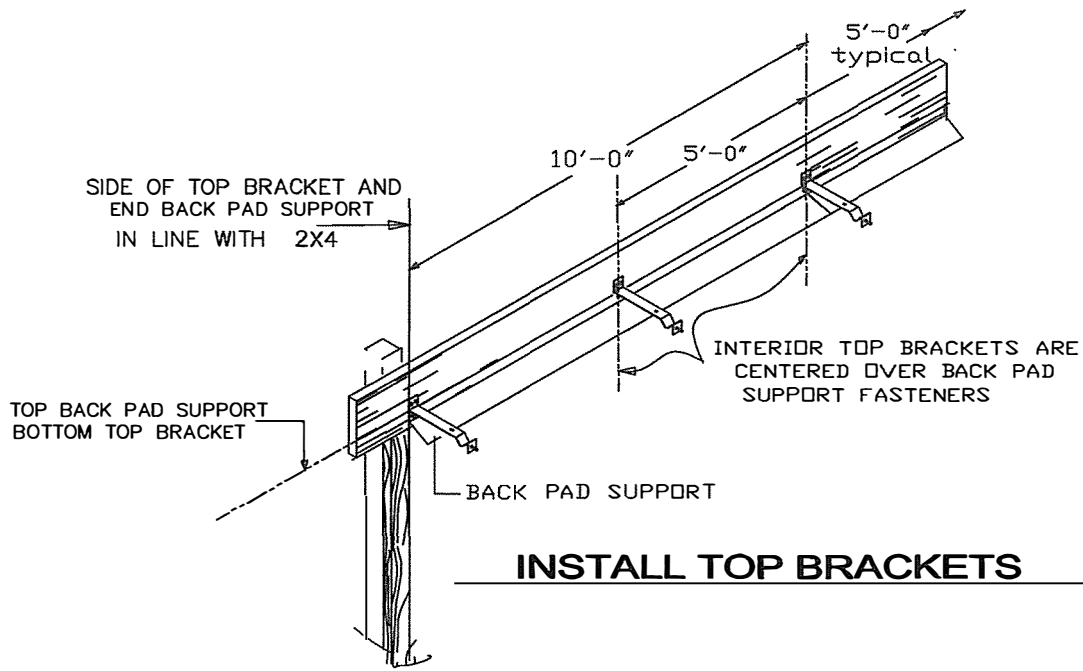
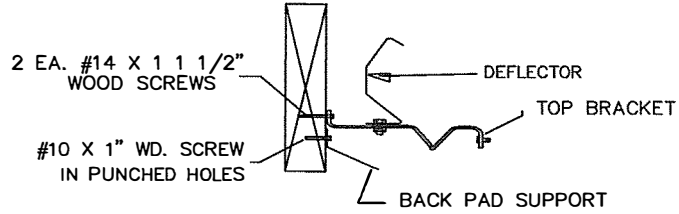


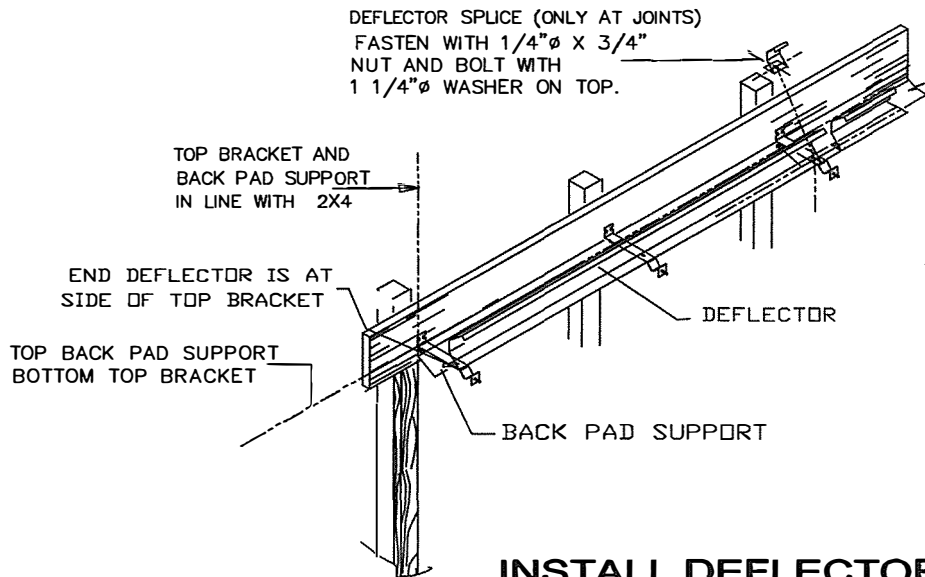
TABLE "C"		
PAD HEIGHT	DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT	
	IN FT. & IN.	INCHES
3' -0"	3' -3 1/2"	39 1/2"
4' -0"	4' -3 1/2"	51 1/2"
5' -0"	5' -3 1/2"	63 1/2"
6' -0"	6' -3 1/2"	75 1/2"



INSTALL TOP BRACKETS



END VIEW



INSTALL DEFLECTOR

TROUGH FABRICATION

FOR DOUBLE END FEED SPLIT PAD SYSTEM

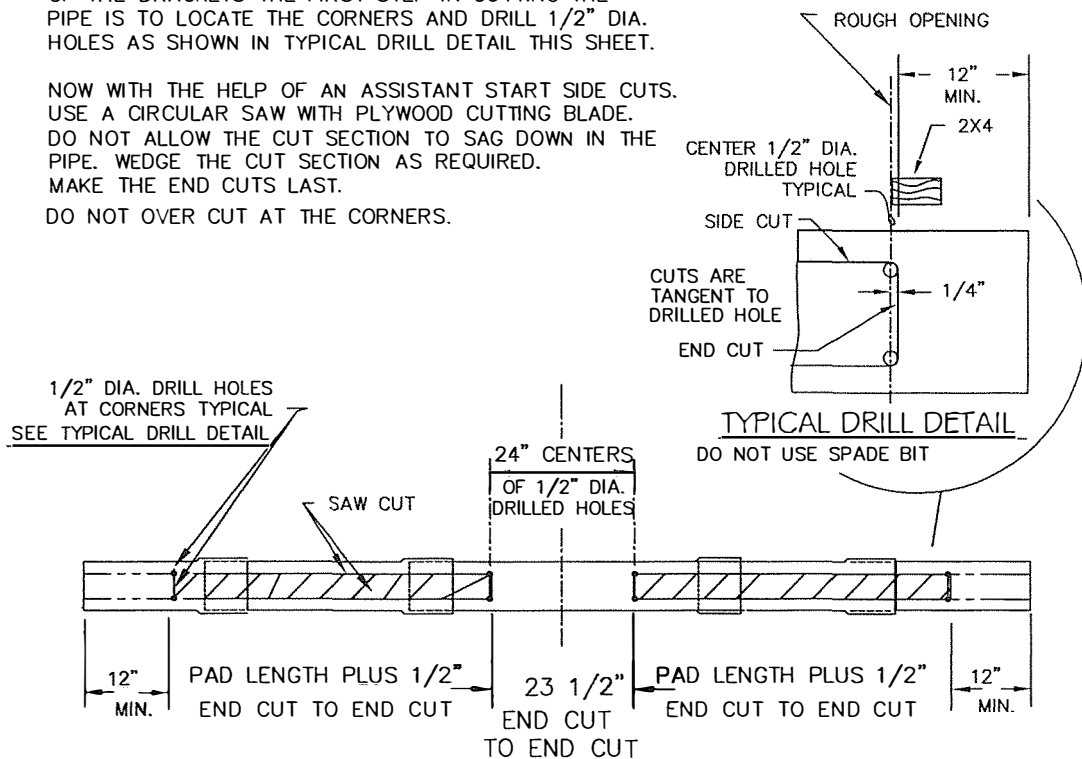
AFTER THE GLUE HAS DRIED PLACE THE ASSEMBLED PIPE ON THE BOTTOM BRACKETS AND SLIDE ASSEMBLY AS REQUIRED TO MAKE SURE THE JOINS CLEAR THE BOTTOM BRACKETS. ALSO VERIFY A MIN OF 12" OF THE 8" PIPE EXTEND BEYOND THE ROUGH OPENINGS.

DRILL HOLES AT CORNERS
BEFORE MAKING CUTS

WITH PIPE ON THE BOTTOM BRACKETS AND CLEAR OF THE BRACKETS THE FIRST STEP IN CUTTING THE PIPE IS TO LOCATE THE CORNERS AND DRILL 1/2" DIA. HOLES AS SHOWN IN TYPICAL DRILL DETAIL THIS SHEET.

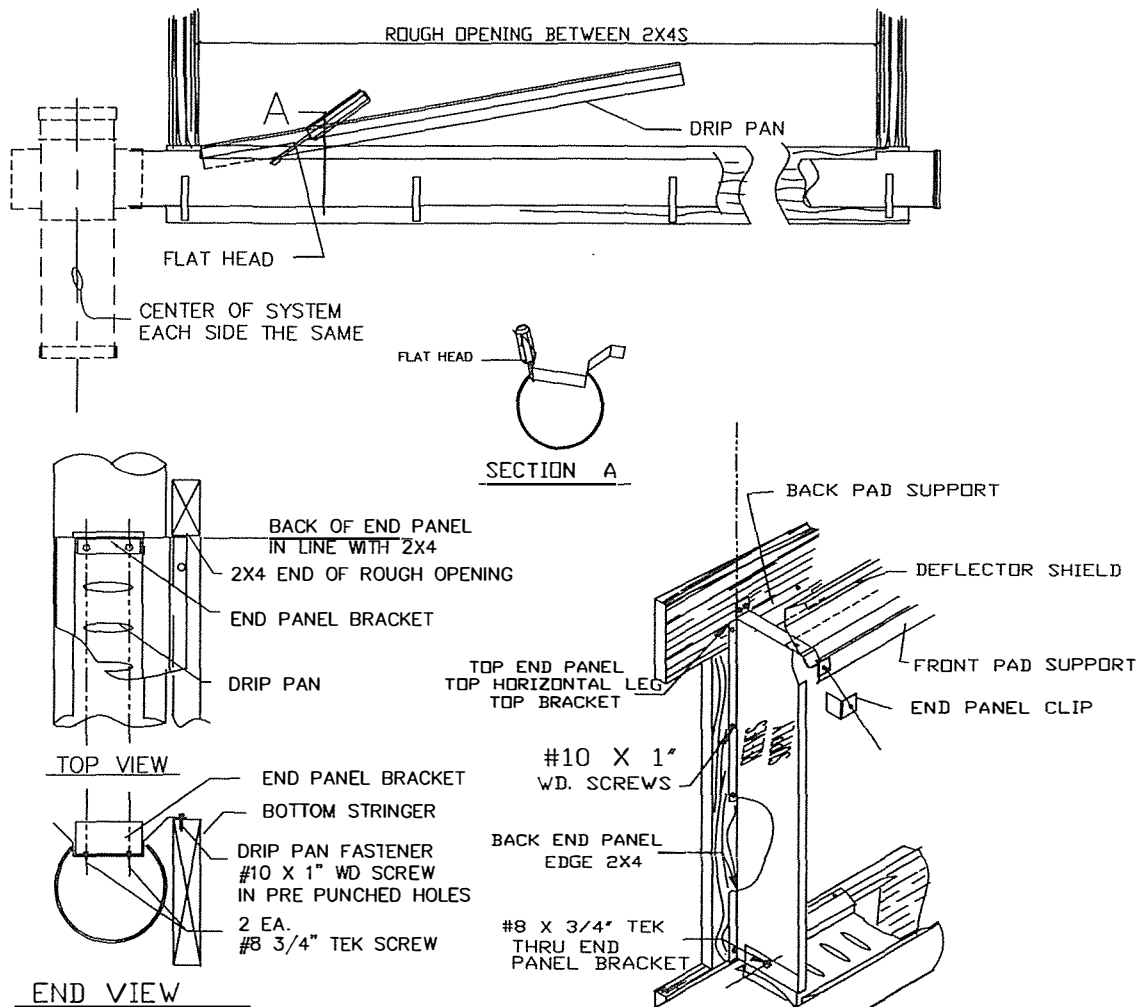
NOW WITH THE HELP OF AN ASSISTANT START SIDE CUTS. USE A CIRCULAR SAW WITH PLYWOOD CUTTING BLADE. DO NOT ALLOW THE CUT SECTION TO SAG DOWN IN THE PIPE. WEDGE THE CUT SECTION AS REQUIRED. MAKE THE END CUTS LAST.

DO NOT OVER CUT AT THE CORNERS.



PLACE DRIP PAN IN TROUGH

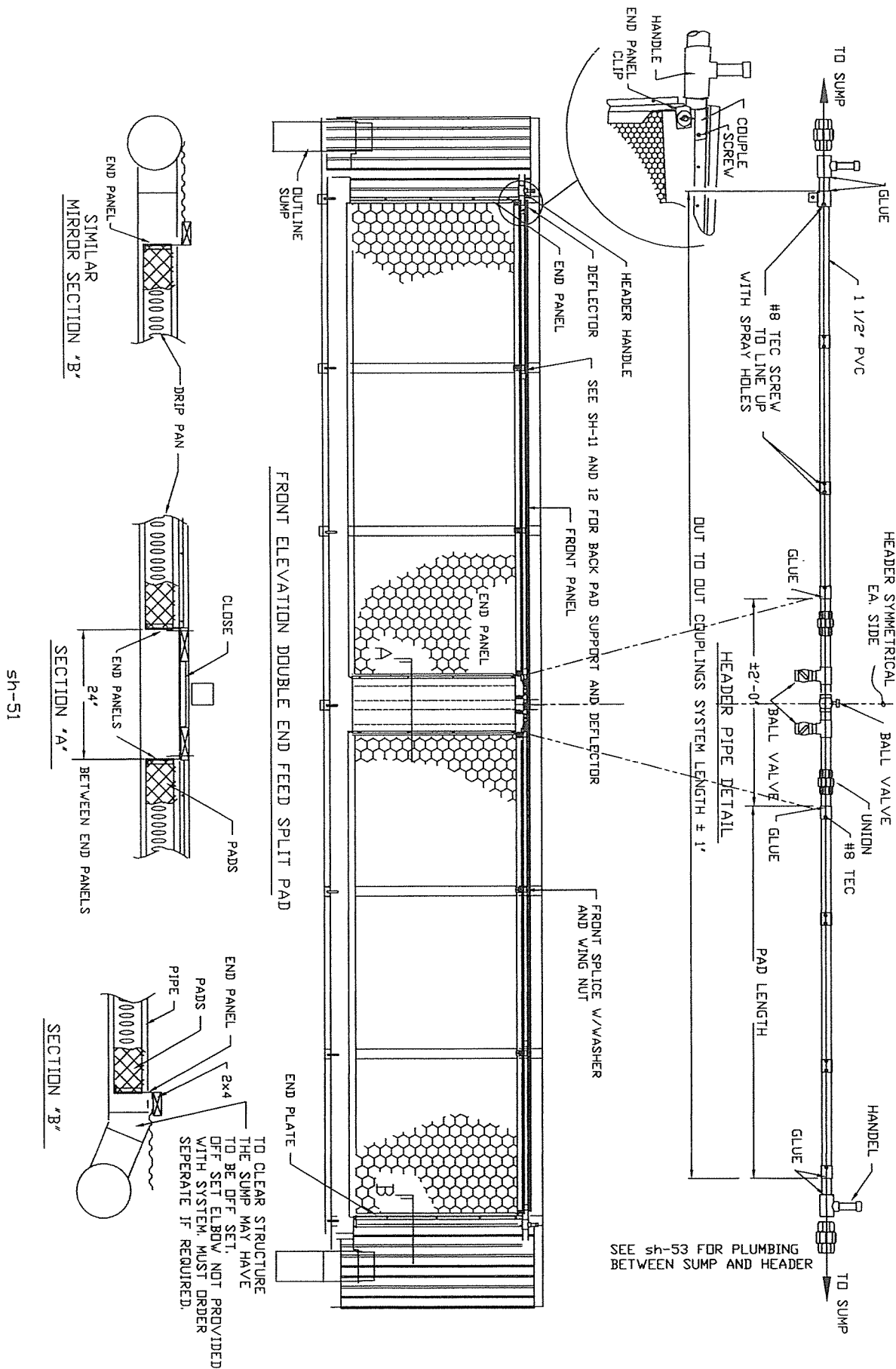
THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN,
DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE
THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN"
THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN
PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT
ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.



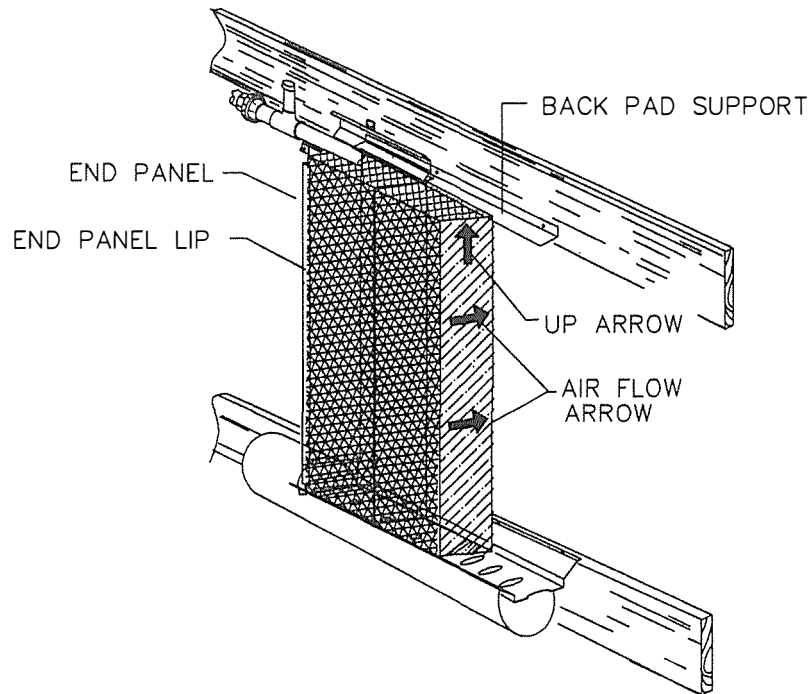
INSTALL END PANELS BRACKETS

INSTALL END PANELS BOTH ENDS

DOUBLE END FEED SPLIT PAD ELEVATION WITH HEADER



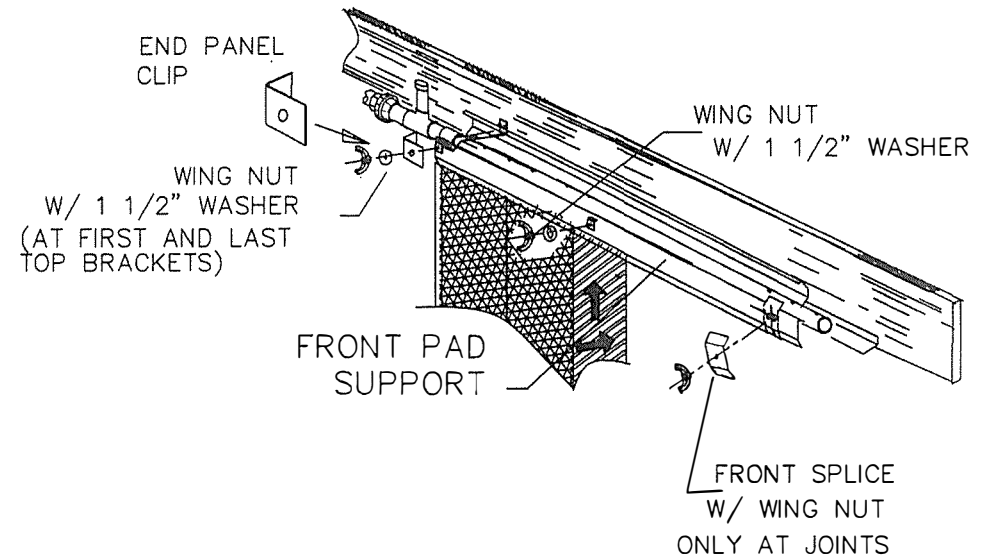
INSTALL PADS



NOTE: SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

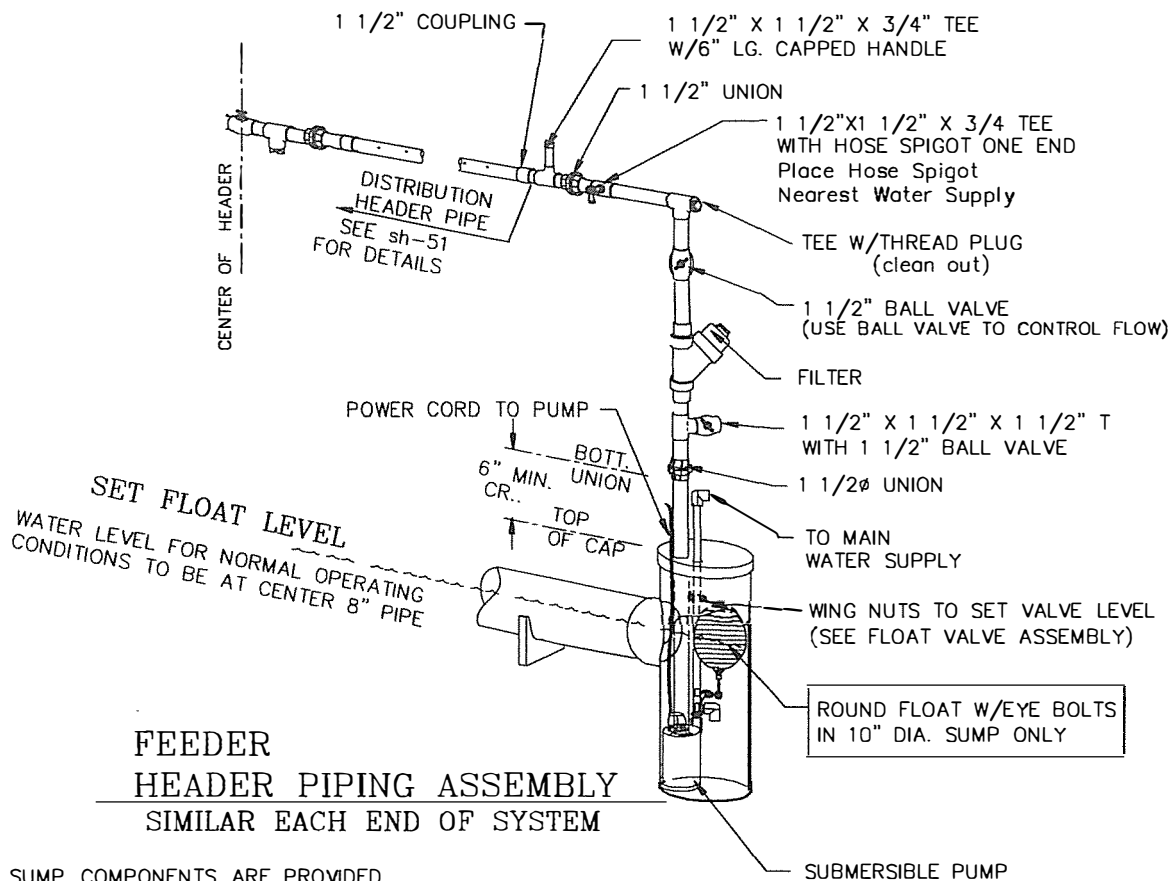
"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

INSTALL FRONT PAD SUPPORT

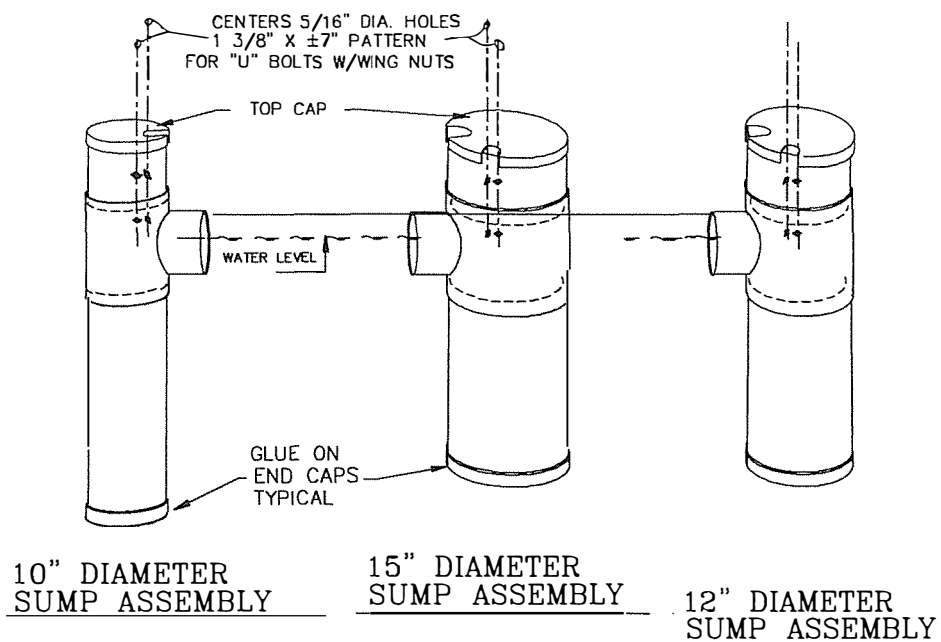


THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

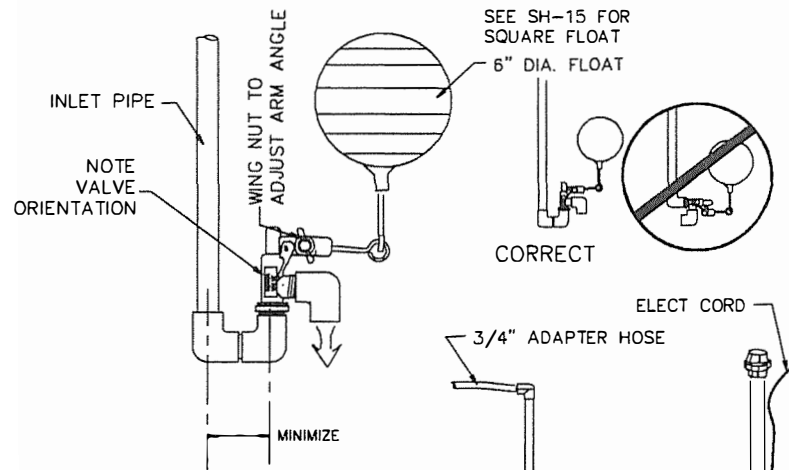
NOTE; ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL



SUMP COMPONENTS ARE PROVIDED
THE END CAP TO BE GLUED ON IN FIELD.
THE TOP CAP WILL REQUIRE OPENINGS TO BE FIELD CUT
DO NOT GLUE ON TOP CAP.



FLOAT VALVE ASSEMBLY PUMP ASSEMBLY

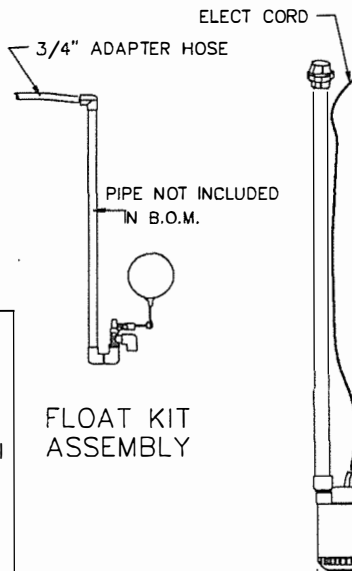


ENLARGED ASSEMBLY
SEE NEXT SHEET FOR
FLOAT VALVE ROTATION

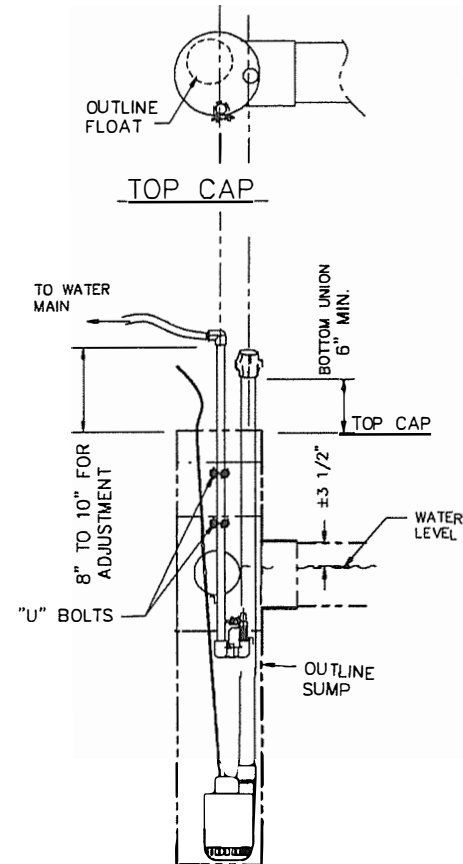
2 (TWO) KITS PROVIDED
Each Float Kit Includes

- 1-3/4" Float Valve
- 1-6" dia. Black Plastic Float Ball
- 2-90° Elbow SxS
- 2- 3/4" MGT Adapter Hose
- 2- U Bolts
- 4- Nylon Wing Nuts
- 2-1/4" Eye Bolts pre

* 3/4 PVC Pipe not included

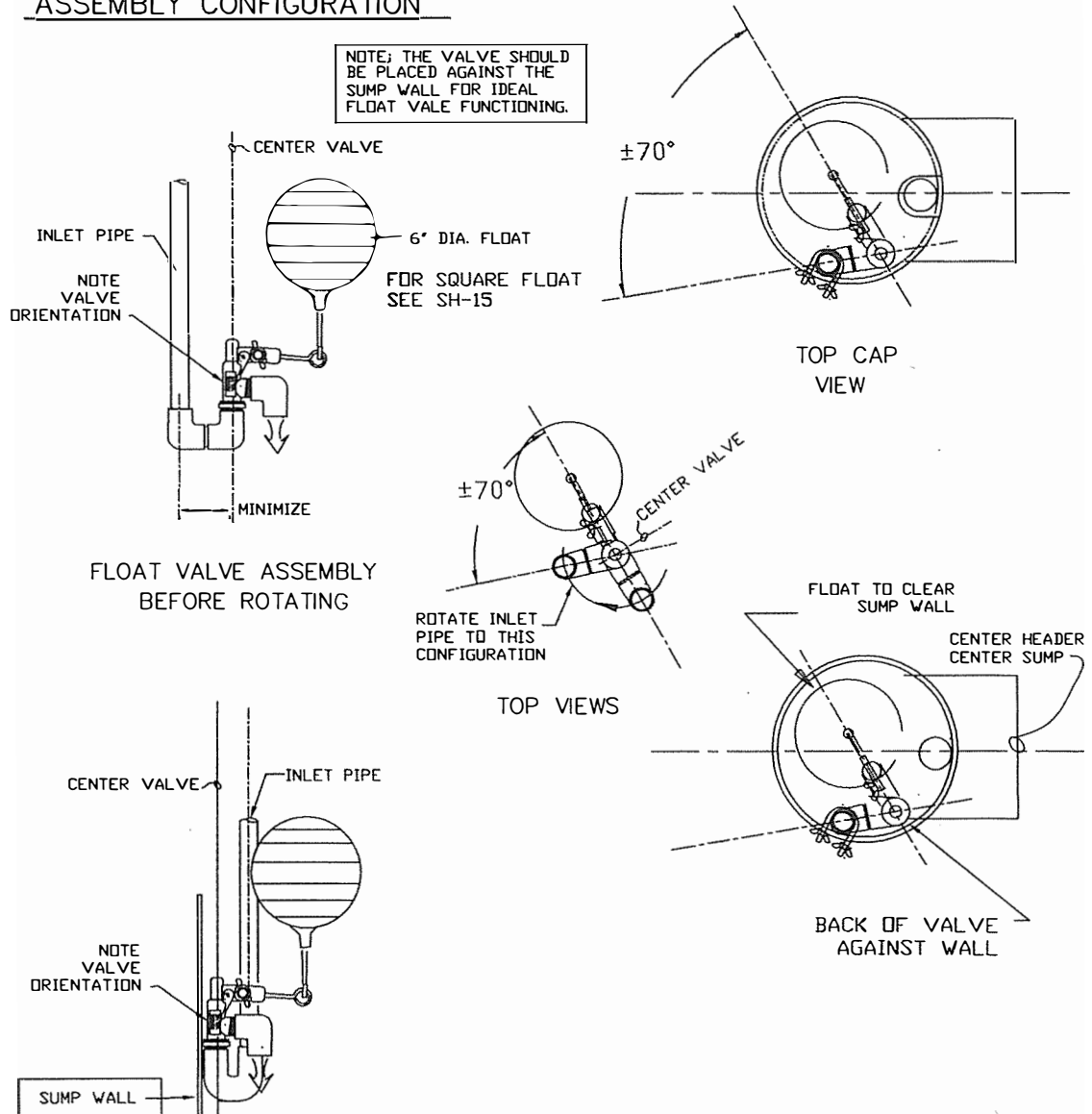


PUMP
ASSEMBLY



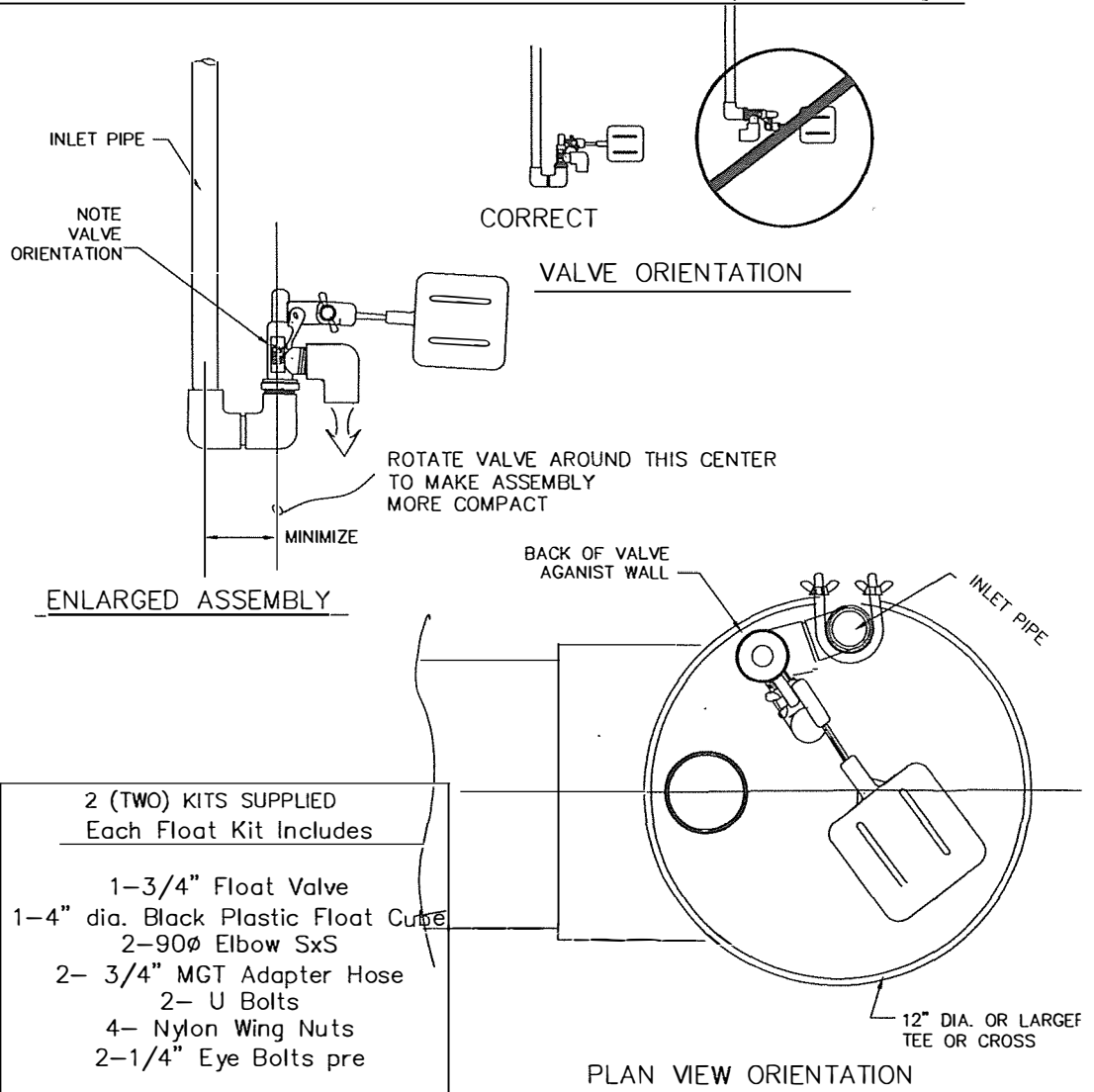
COMBINED ASSEMBLY
SHOWN IN 10" SUMP

FLOAT VALVE ASSEMBLY CONFIGURATION



FLOAT VALVE ASSEMBLY
MOST COMPACT
MUST USE THIS ARRANGEMENT
FOR 10" SUMP AND 10" CROSS SUMP

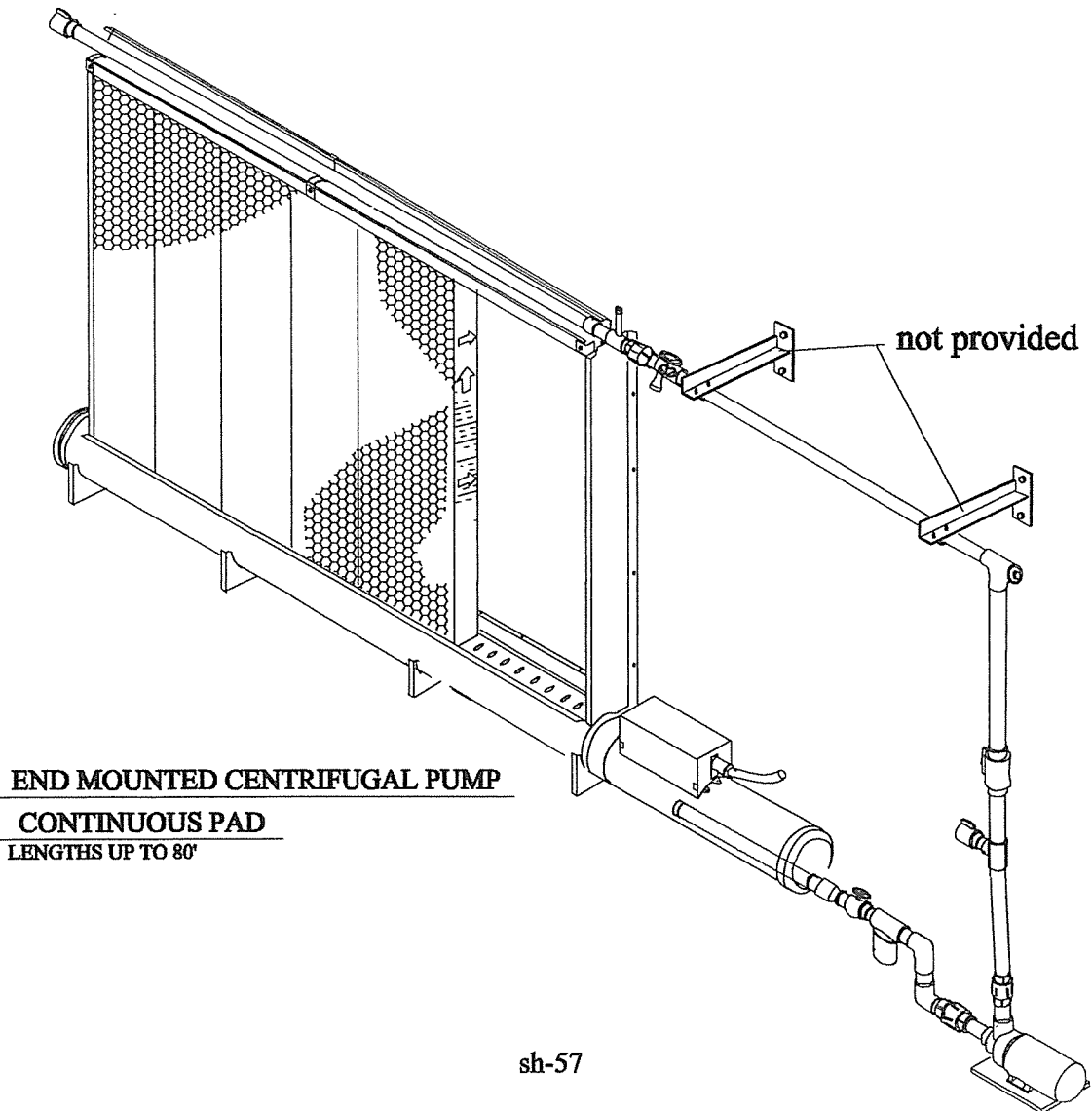
SQUARE FLOAT & VALVE ASSEMBLY for 12" & 15" TEES only



* 3/4" PVC Pipe not included

TABLE OF CONTENTS

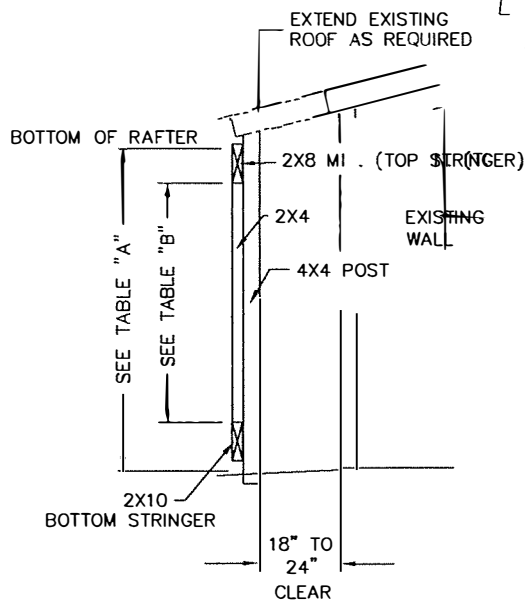
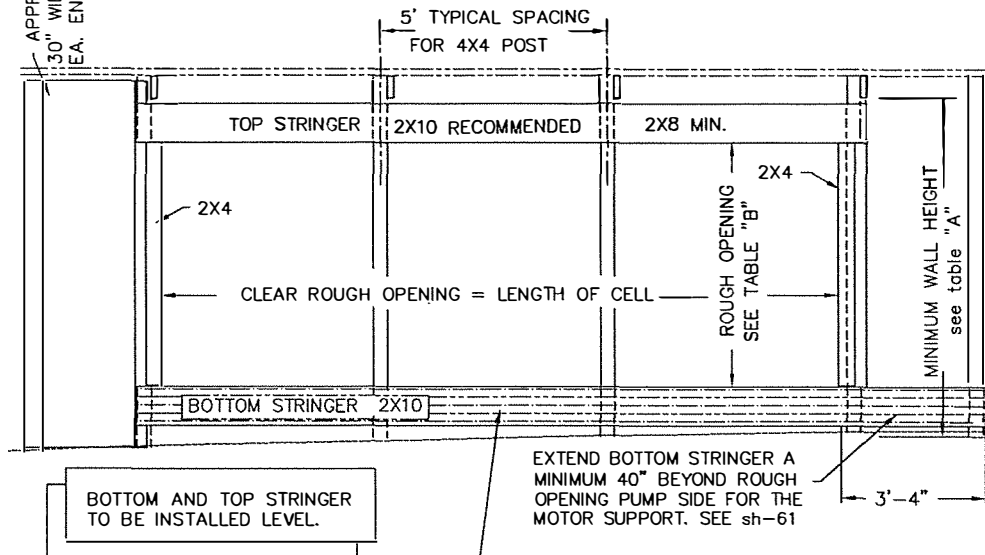
	sheet no.
Centrifugal Pump End Feed Contents	57
Framing Elevation & Section	58
Assemble and Glue 8" Pipe Trough	59
Install Back Pad Support	60
Install Brackets For Pump Support	61
Install Top Brackets & Deflector	62
Trough Cutting & Drip Pan Installation	63
Cut Pipe for Centrifugal Pump End Feed	64
End Panel Brackets & End Panels	65
Header For End Feed Centrifugal System	66
Pump Support Frame	67
Centrifugal Pump Piping & Supply Header	68
Float Valve Box & Pick-up Tube	69
Install Pads and Front Panel	70



APPROXIMATELY
30" WIDE CLOSURE
EA. END

FRAMING ELEVATION AND SECTION

USE PRESSURE TREATED LUMBER



SECTION VIEW

BOTTOM 2X10 STRINGER TO BE TEMPORARILY NAILED IN PLACE. FINAL ANCHORAGE COMES WITH THE INSTALLATION OF THE BOTTOM BRACKETS

MINIMUM WALL HEIGHT
PAD HEIGHT + 16" = "A"

PAD HEIGHT	TABLE "A"	
	OVERALL WALL HEIGHT	
	in FEET & IN	in INCHES
3' - 0"	4' - 4"	52"
4' - 0"	5' - 4"	64"
5' - 0"	6' - 4"	76"
6' - 0"	7' - 4"	88"

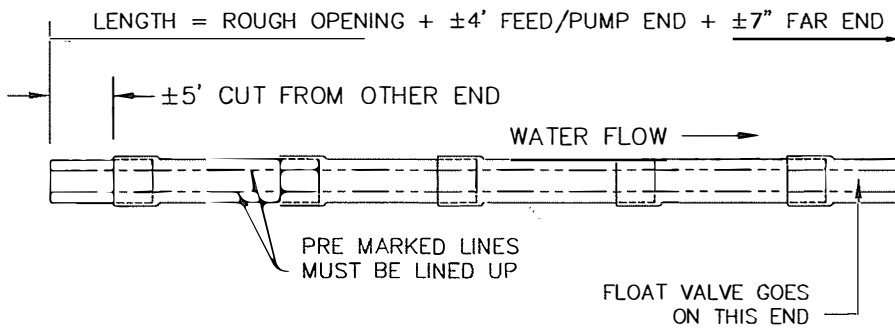
ROUGH OPENING HEIGHT
PAD HEIGHT - 3' = "B"

PAD HEIGHT	TABLE "B"	
	CLEAR BETWEEN 2X10	
	in FEET & IN	in INCHES
3' - 0"	2' - 9"	33"
4' - 0"	3' - 9"	45"
5' - 0"	4' - 9"	57"
6' - 0"	5' - 9"	69"

GLUE 8" TROUGH FOR CENTRIFUGAL PUMP END FEED

DO NOT DISTURB GLUED PIPE
UNTIL GLUE HAS CURED.

A MINIMUM OF 5' EXTRA 8" PIPE PROVIDED



INSTALL BACK PAD SUPPORT

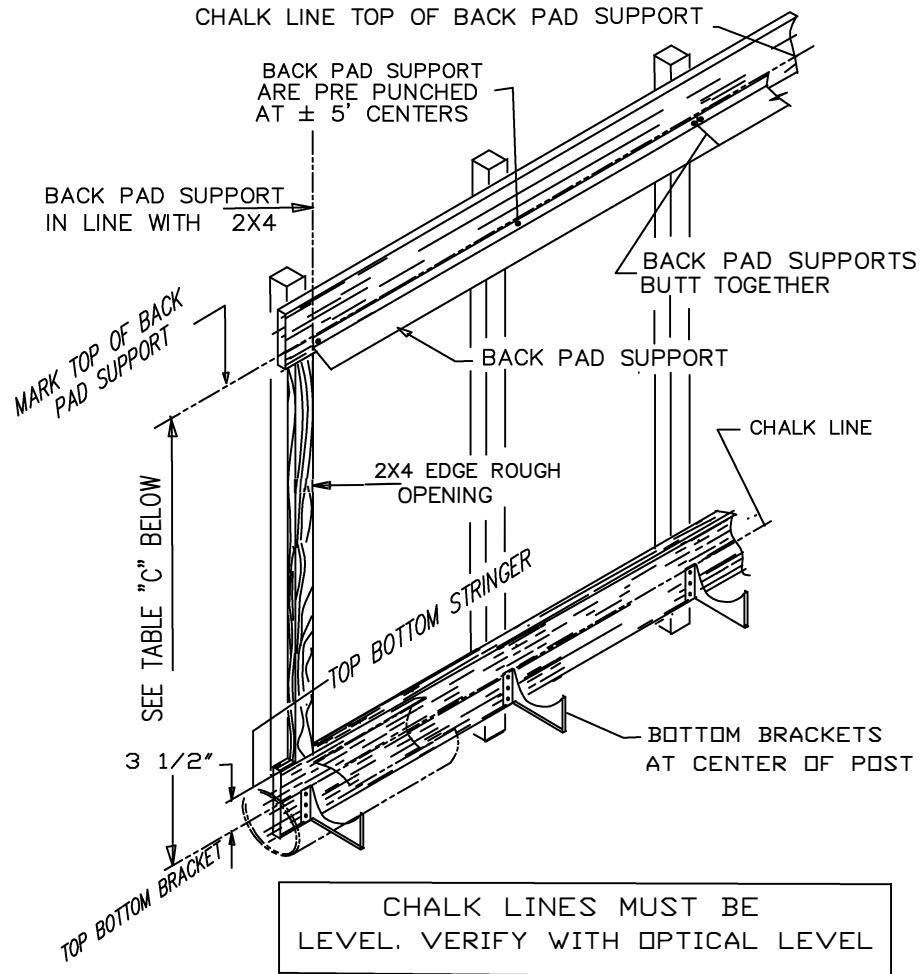
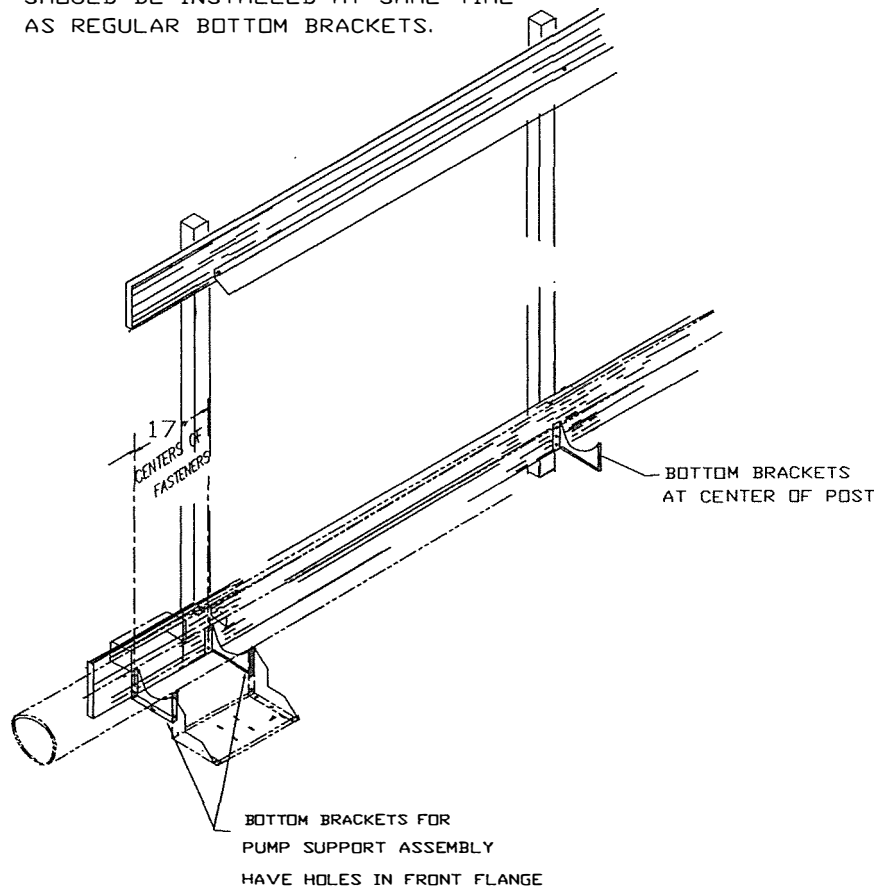


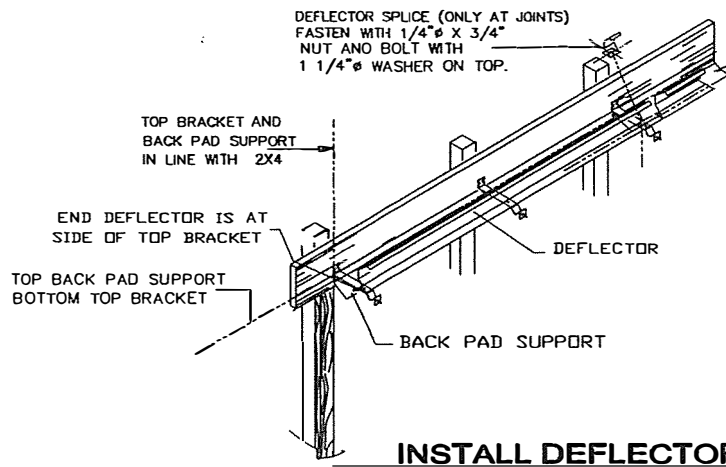
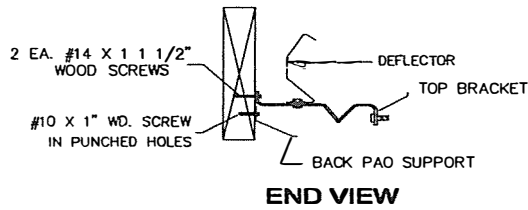
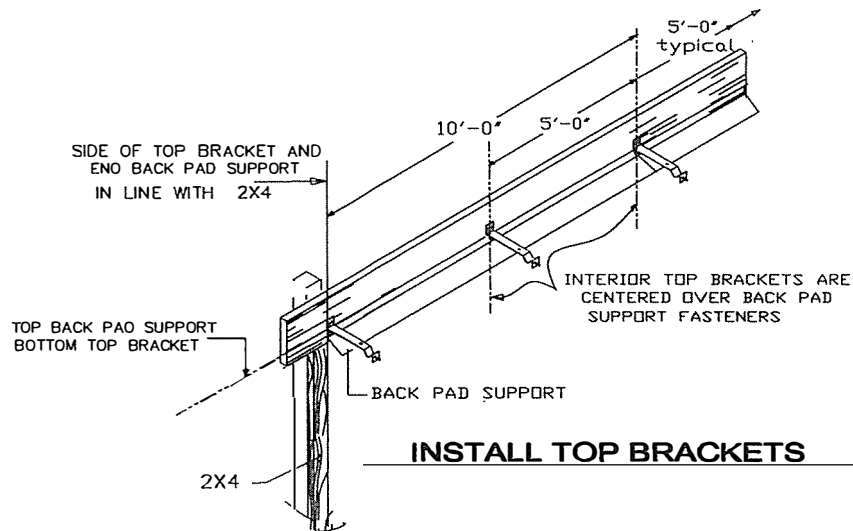
TABLE "C"		
PAD HEIGHT	DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT	
	IN FT. & IN.	INCHES
3' - 0"	3' - 3 1/2"	39 1/2"
4' - 0"	4' - 3 1/2"	51 1/2"
5' - 0"	5' - 3 1/2"	63 1/2"
6' - 0"	6' - 3 1/2"	75 1/2"

BOTTOM BRACKETS FOR PUMP SUPPORT ASSEMBLY

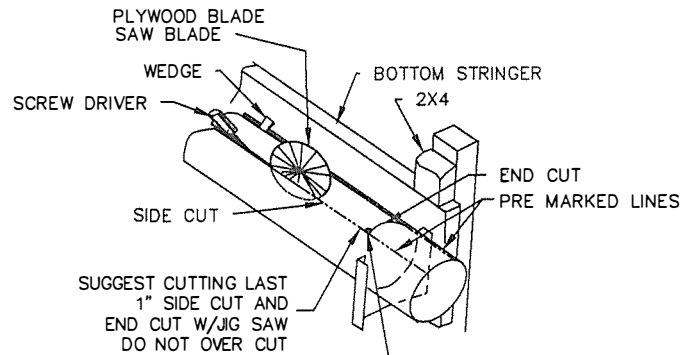
FAILURE TO INSTALL SYSTEM
LEVEL WILL VOID WARRANTY

BOTTOM BRACKETS FOR PUMP SUPPORT
SHOULD BE INSTALLED AT SAME TIME
AS REGULAR BOTTOM BRACKETS.





TROUGH CUTTING TECHNIQUES



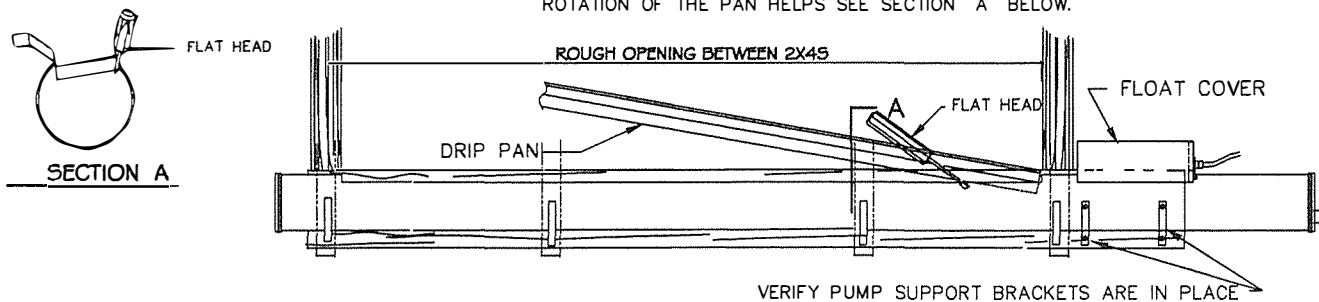
TROUGH CUTTING TECHNIQUES

THE ABOVE SKETCH ILLUSTRATES STEPS OF HOW TO CUT THE PIPE TO AVOID PINCHING THE SAW BLADE. IN GENERAL THE GOAL IS TO PREVENT THE CUT OUT SECTION FROM SAGGING DOWN INTO THE PIPE. SAGGING DOWN INTO THE PIPE THUS PINCHING THE SAW BLADE RESULTING IN KICK BACK AND POSSIBLY SPLIT THE PIPE

1/2" DIA. DRILL HOLE
SEE TYPICAL DRILL DETAIL
sh-9

PLACE DRIP PAN IN TROUGH

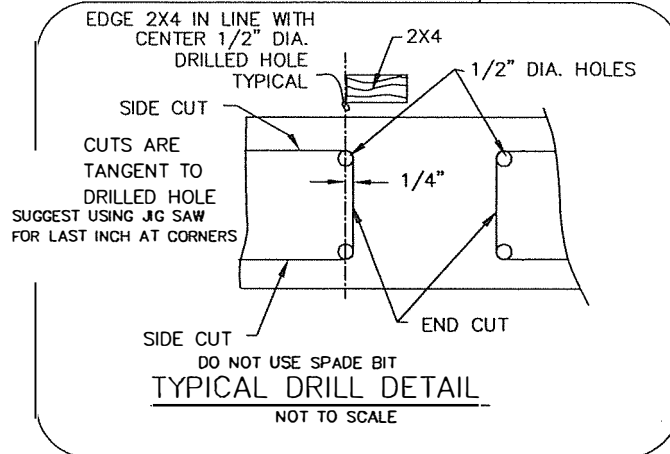
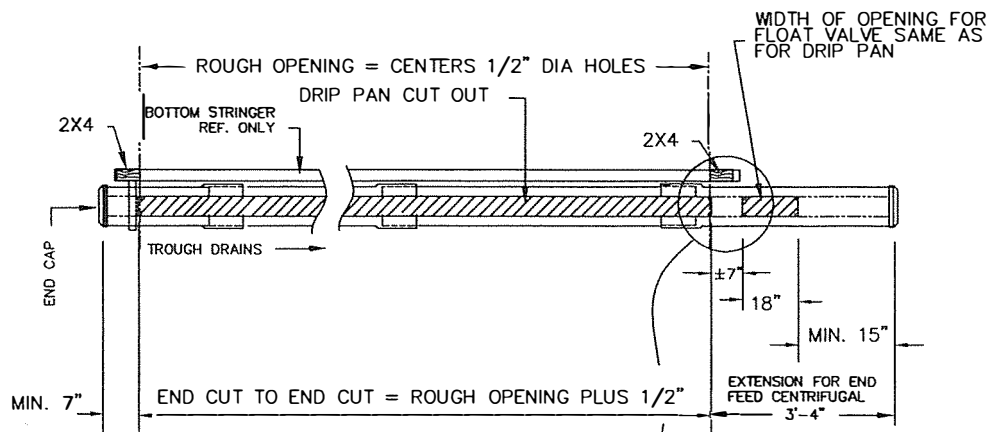
THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN, DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN" THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.

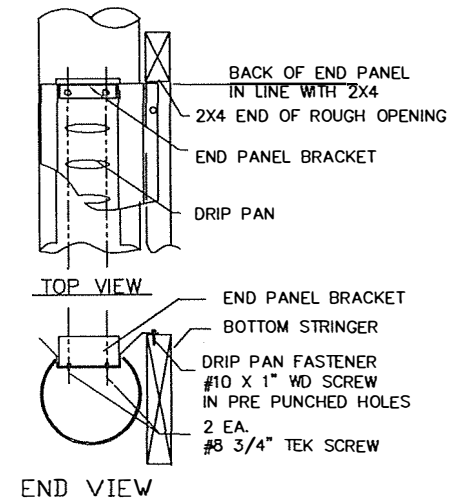


CUT PIPE FOR CENTRIFUGAL PUMP END FEED

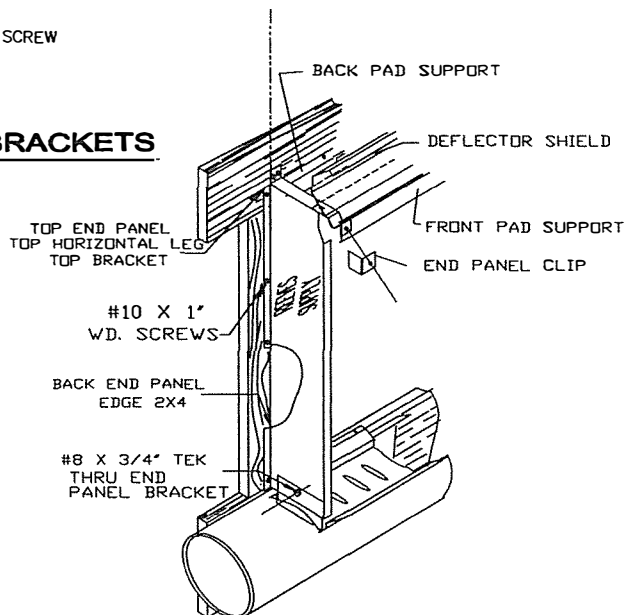
DO NOT DISTURB GLUED PIPE
UNTIL GLUE HAS CURED.

DRILL 1/2" DIA HOLES AT
4 CORNERS CUT OUT.



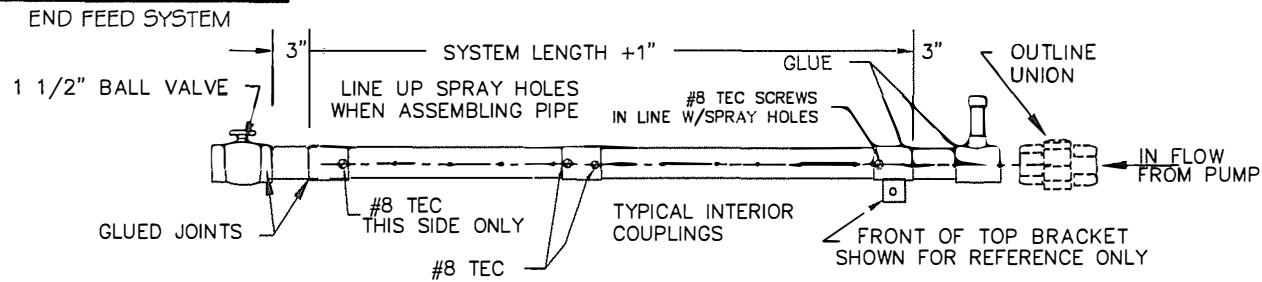


INSTALL END PANELS BRACKETS



INSTALL END PANELS BOTH ENDS

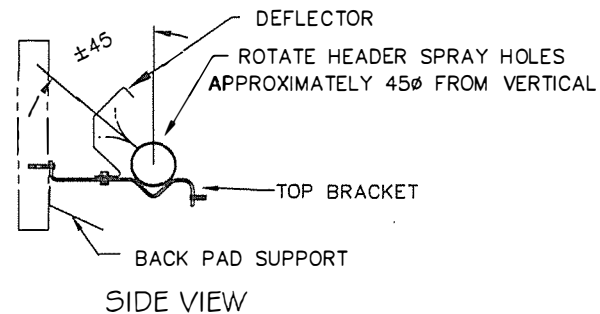
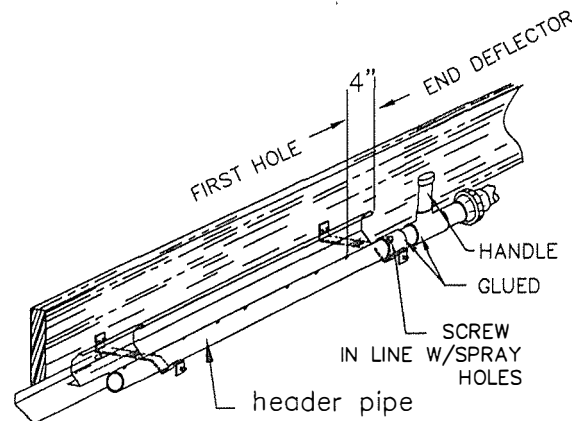
ASSEMBLE HEADER PIPE



HEADER PIPE DETAIL

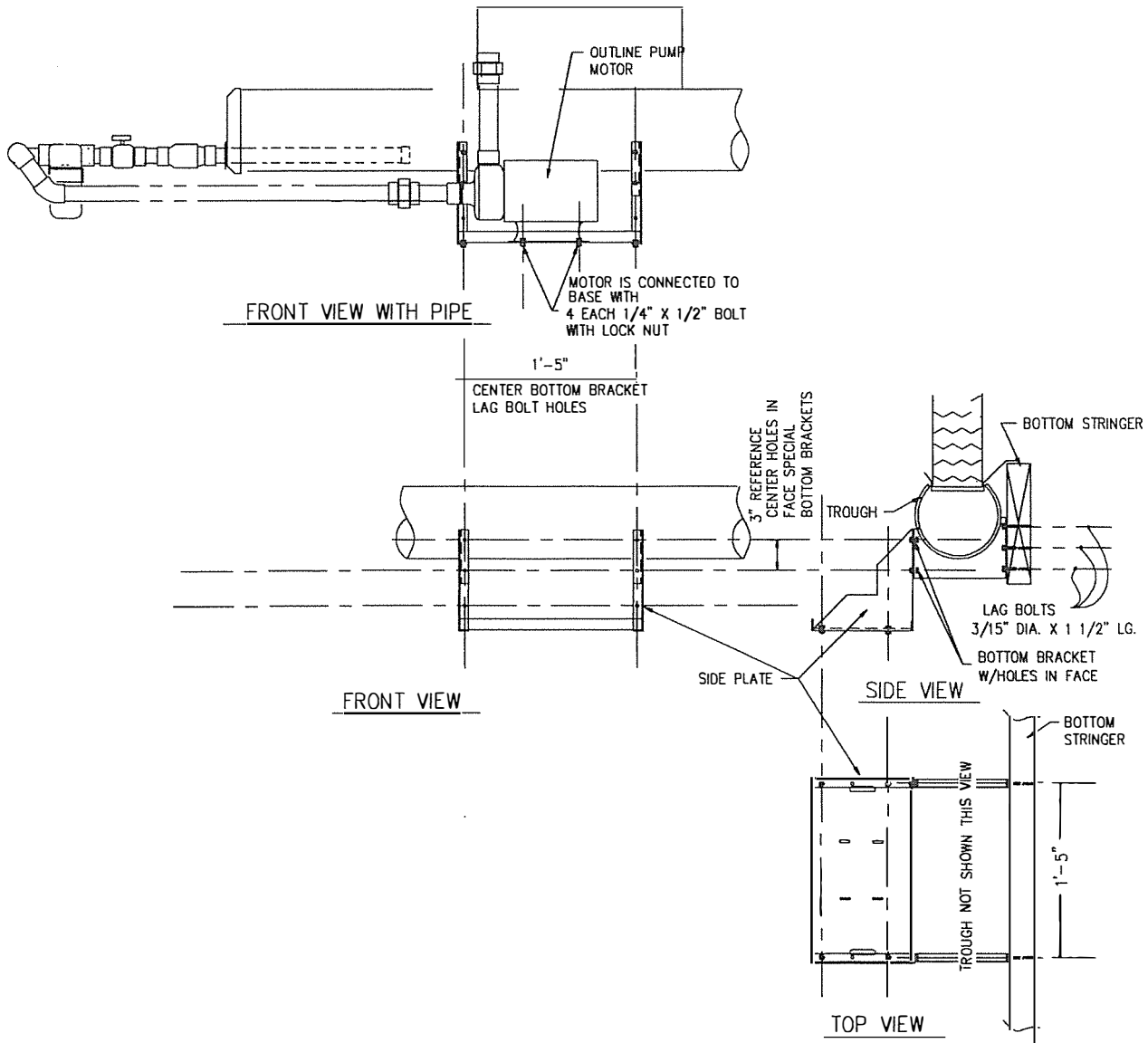
STEP 1 (DO NOT GLUE HEADER PIPE)
MAKE SURE HOLES ARE LINED UP WHEN ASSEMBLING HEADER. COUPLINGS ARE SCREW FASTENED TO PIPE WITH 2 EACH #8 TEC SCREWS. 1 SCREW EACH SIDE OF COUPLING.

STEP 2
PLACE ASSEMBLED HEADER PIPE ON TOP BRACKETS. MAKE SURE THE HEADER SPANS FULL LENGTH OF TOP BRACKETS. JOIN BALL VALVE WITH ABOUT 3" OF PIPE TO OUT ENDS. PLACE HANDLE W/ ABOUT 3" ON IN FLOW END



STEP 3
POSITION HEADER PIPE TO PROVIDE MINIMUM 4" BETWEEN FIRST SPRAY HOLE AND END OF DEFLECTOR. THIS TO PREVENT SPRAYING OUTSIDE THE DEFLECTOR. IT MAY BE NECESSARY TO CUT HEADER PIPE AND INSTALL A COUPLING TO GAIN THE 4" CLEARANCE.

MOTOR SUPPORT FRAME



Handle See sh-xx

Union

1 1/2" x 1 1/2" x 3/4" Tee
w/Hose Spigot

Pipe Hanger
Shown for Reference
Not provided in B.O.M.

End Panel
see sh-10

float cover

to water supply

Pick Up
Tube

Check Valve

1 1/2" x 1 1/2" x 1 1/2"
With Thread Plug for
Clean Out

1 1/2" Ball Valve

1" Ball Valve

1 1/2" x 1" Tee

MOTOR S
P

Union

Centrifugal Pump

motor support

1 1/2" Ball Valve

Filter
90° Down

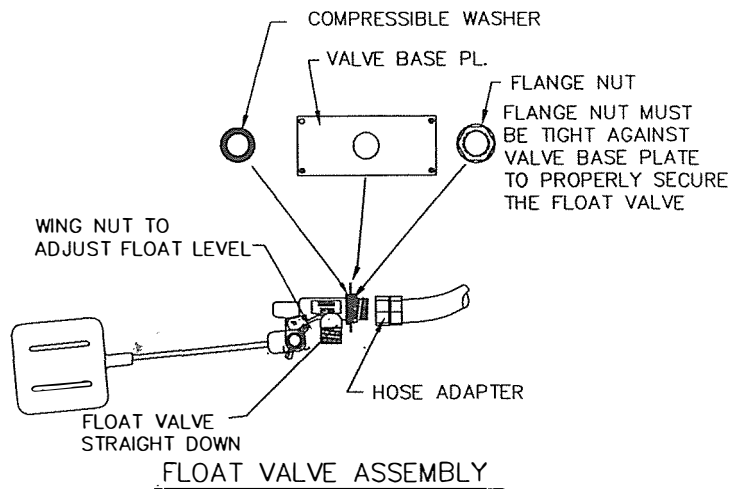
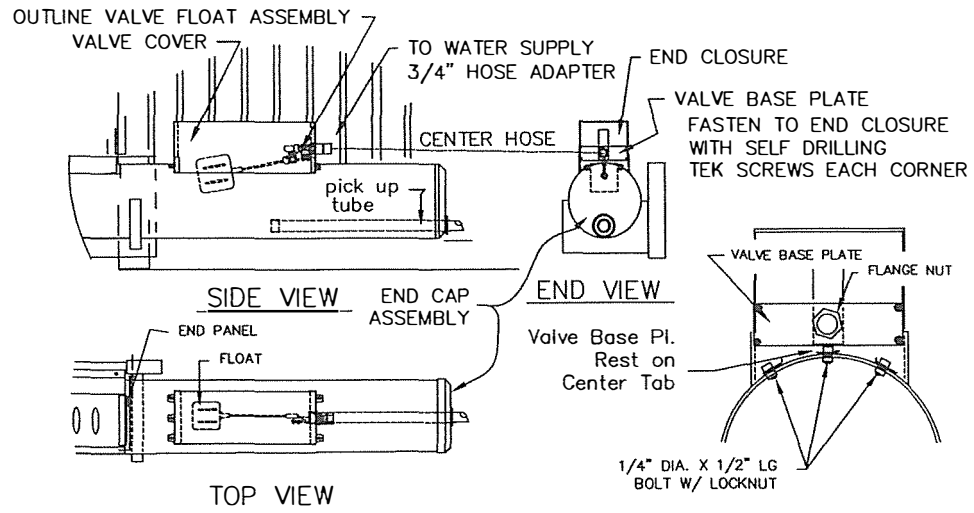
Union

15"

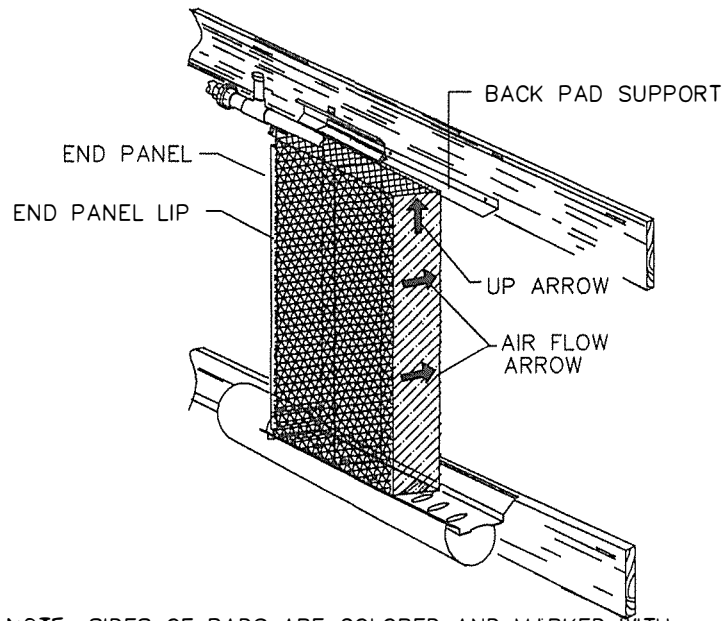
sh-68

FLOAT VALVE COVER ASSEMBLY

FLOAT VALVE ASSEMBLY



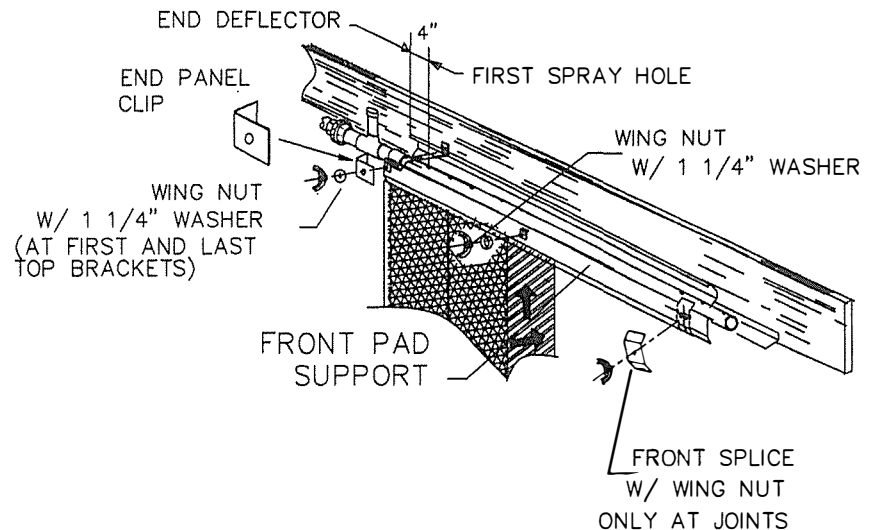
INSTALL PADS



NOTE: SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

INSTALL FRONT PAD SUPPORT



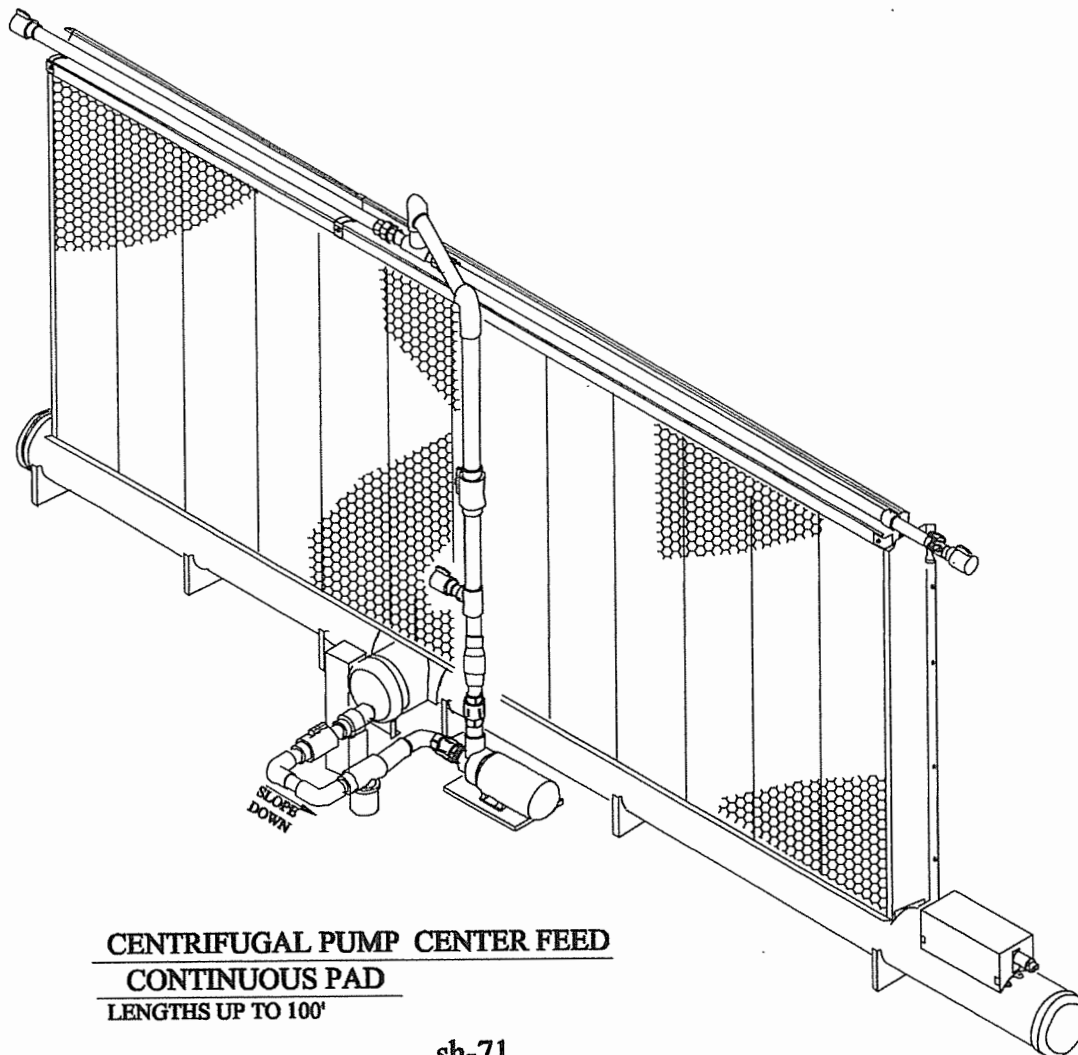
THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

NOTE; ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL.

TABLE OF CONTENTS

sheet no.

Centrifugal Pump Center Feed Contents	71
Framing Elevation & Section	72
Assemble and Glue 8" Pipe Trough	73
Install Back Pad Support	74
Bottom Brackets For Pump Support	75
Install Top Brackets & Deflector	76
Trough Fabrication - Trough Cutting & Drip Pan Installation	77
Cut Pipe for drip Pan and Float Valve	78
End Panel Brackets & End Panels	79
Pump Motor Support Frame	80
Header For Center Feed Centrifugal System	81
Install Pads and Front Panel	82
Float Valve Box & Assembly	83

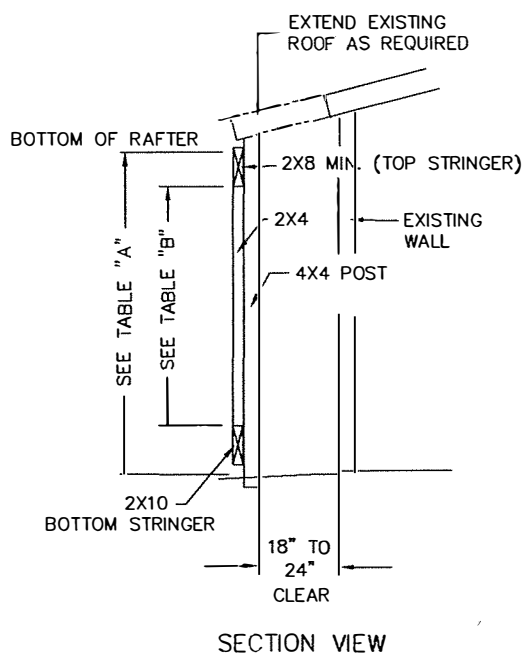
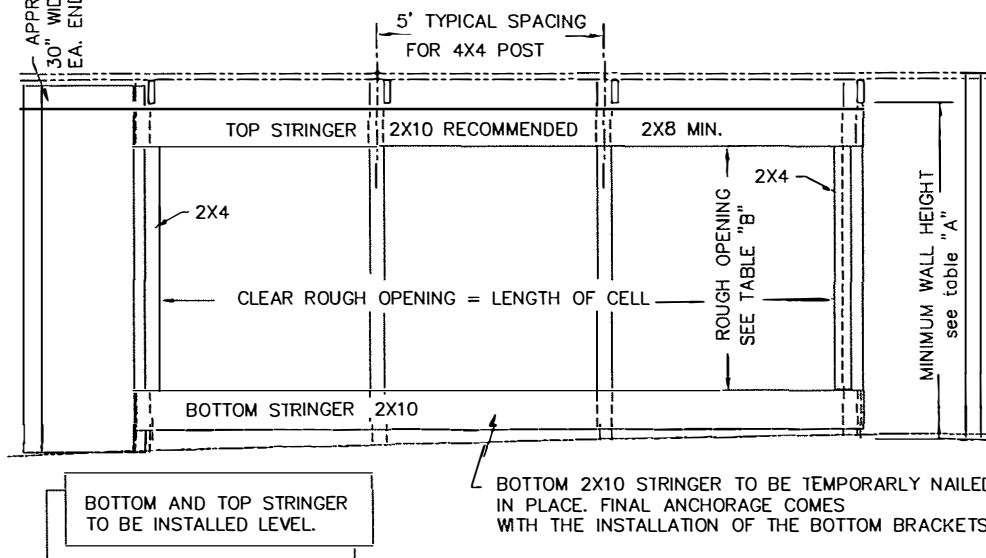


CENTRIFUGAL PUMP CENTER FEED
CONTINUOUS PAD
 LENGTHS UP TO 100'

sh-71

— APPROXIMATELY
30" WIDE CLOSURE
EA. END

USE PRESSURE TREATED LUMBER



MINIMUM WALL HEIGHT
PAD HEIGHT + 16" = "A"

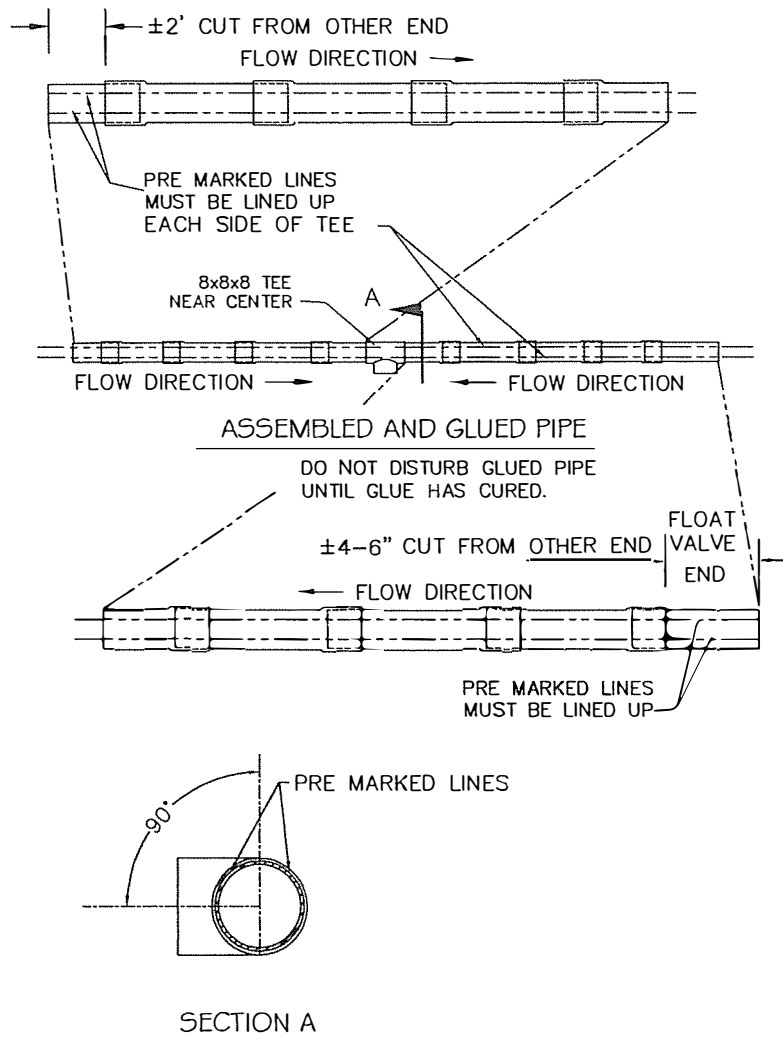
PAD HEIGHT	OVERALL WALL HEIGHT	
	in FEET & IN	in INCHES
3' -0"	4' -4"	52"
4' -0"	5' -4"	64"
5' -0"	6' -4"	76"
6' -0"	7' -4"	88"

ROUGH OPENING HEIGHT
PAD HEIGHT - 3' = "B"

TABLE 'B'		
PAD HEIGHT	CLEAR BETWEEN 2X10	
	in FEET & IN	in INCHES
3'-0"	2'-9"	33'
4'-0"	3'-9"	45'
5'-0"	4'-9"	57'
6'-0"	5'-9"	69'

GLUE 8" PIPE TROUGH FOR CENTER FEED
CENTRIFUGAL PUMP- CONTINUOUS PAD SYSTEM

A MINIMUM OF 2' EXTRA 8" PIPE PROVIDED



INSTALL BACK PAD SUPPORT

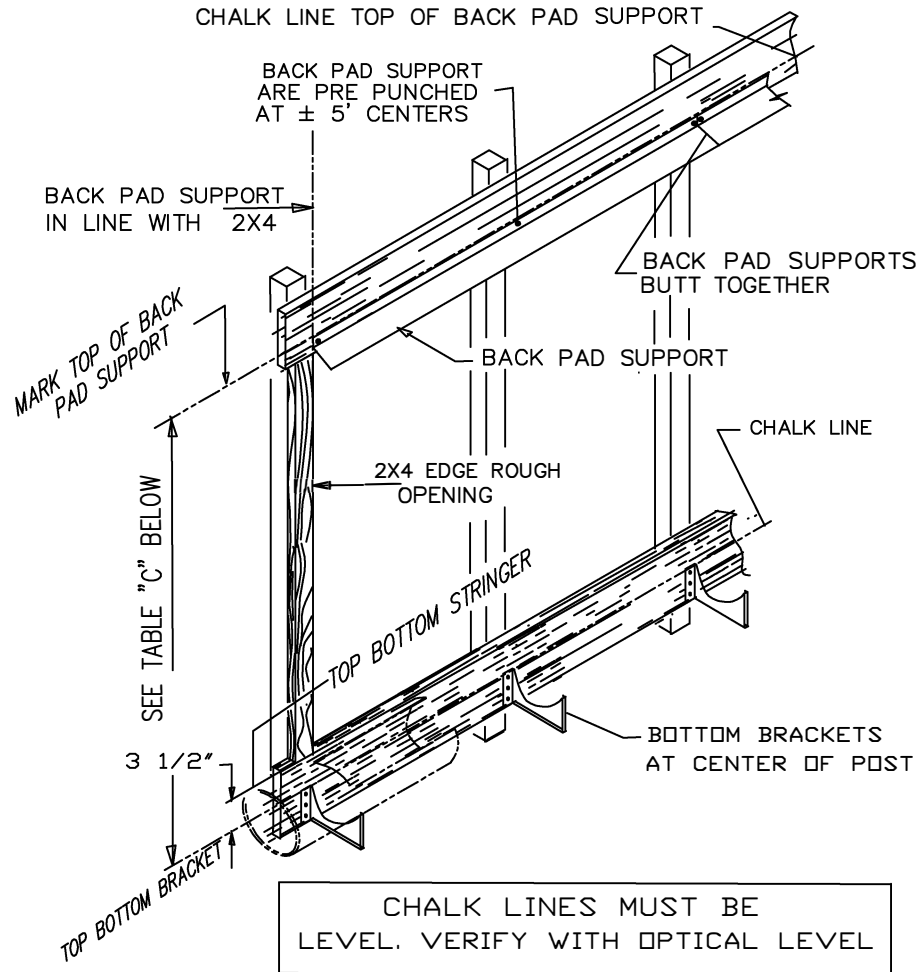
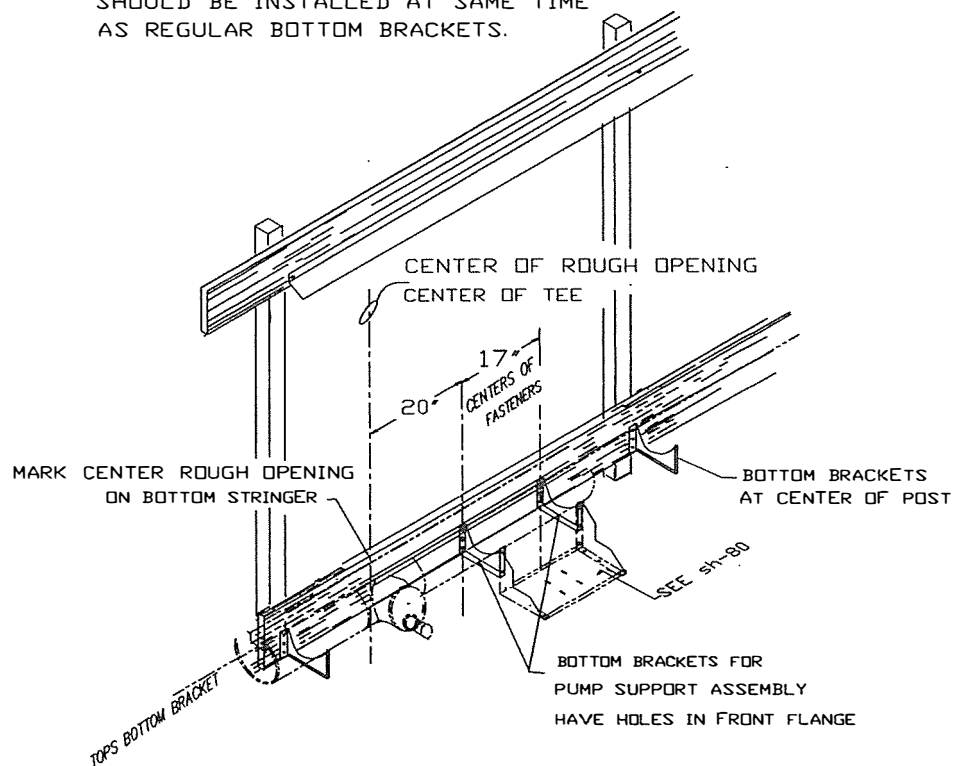


TABLE "C"		
PAD HEIGHT	DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT	
	IN FT. & IN.	INCHES
3' - 0"	3' - 3 1/2"	39 1/2"
4' - 0"	4' - 3 1/2"	51 1/2"
5' - 0"	5' - 3 1/2"	63 1/2"
6' - 0"	6' - 3 1/2"	75 1/2"

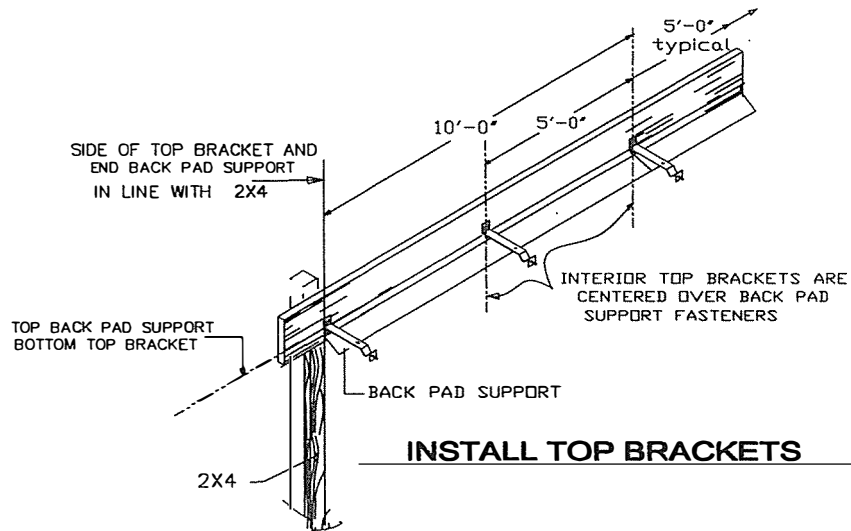
BOTTOM BRACKETS FOR PUMP SUPPORT ASSEMBLY

FAILURE TO INSTALL SYSTEM
LEVEL WILL VOID WARRANTY

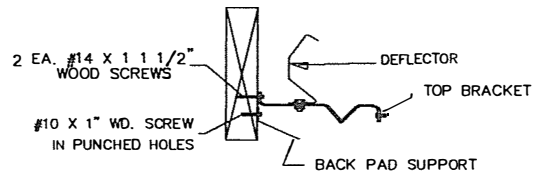
BOTTOM BRACKETS FOR PUMP SUPPORT
SHOULD BE INSTALLED AT SAME TIME
AS REGULAR BOTTOM BRACKETS.



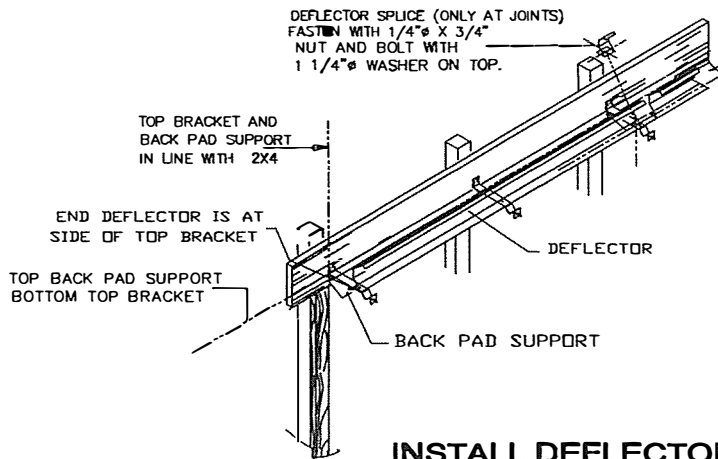
TO ASSURE ALIGNMENT THE WHOLE PUMP SUPPORT ASSEMBLY
TO BE ASSEMBLED AND HELD IN PLACE
WHILE FASTENER HOLES FOR THE BOTTOM
BRACKETS ARE LOCATED ON THE BOTTOM STRINGER.
TOPS OF ALL BOTTOM BRACKETS ARE IN LINE



INSTALL TOP BRACKETS

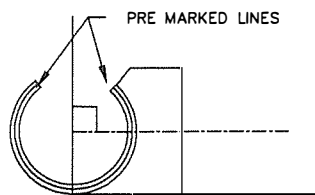


END VIEW

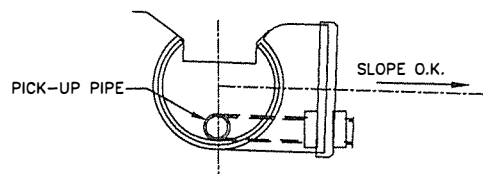


INSTALL DEFLECTOR

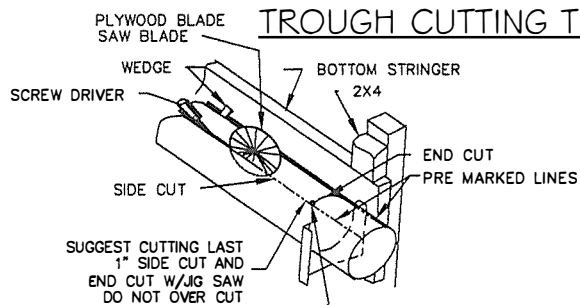
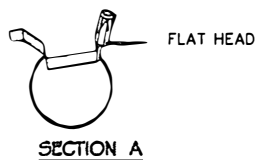
TROUGH FABRICATION DETAILS



PIPE SECTION AT TEE BEFORE DRIP PAN



AFTER PICK-UP PIPE AND PAN HAVE BEEN
INSTALLED A SLIGHT DOWNWARD SLOPE OF TEE
AND PICK-UP LINE IS O.K. (PREFERRED)

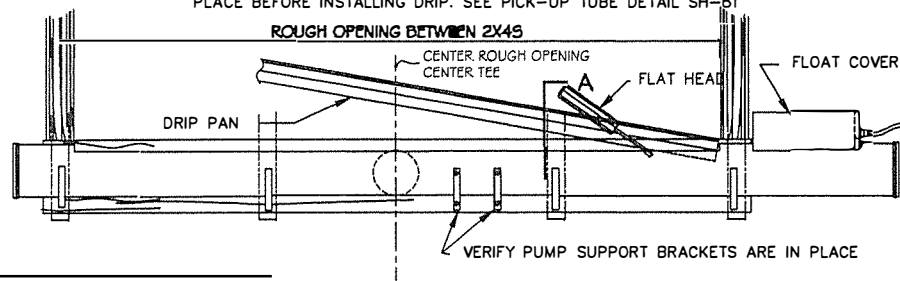


TROUGH CUTTING TECHNIQUES
THE ABOVE SKETCH ILLUSTRATES STEPS OF HOW TO CUT THE PIPE TO AVOID PINCHING THE SAW BLADE. IN GENERAL THE GOAL IS TO PREVENT THE CUT OUT SECTION FROM SAGGING DOWN INTO THE PIPE SAGGING DOWN INTO THE PIPE THUS PINCHING THE SAW BLADE RESULTING IN KICK BACK AND POSSIBLY SPLIT THE PIPE

1/2" DIA. DRILL HOLE
SEE TYPICAL DRILL DETAIL

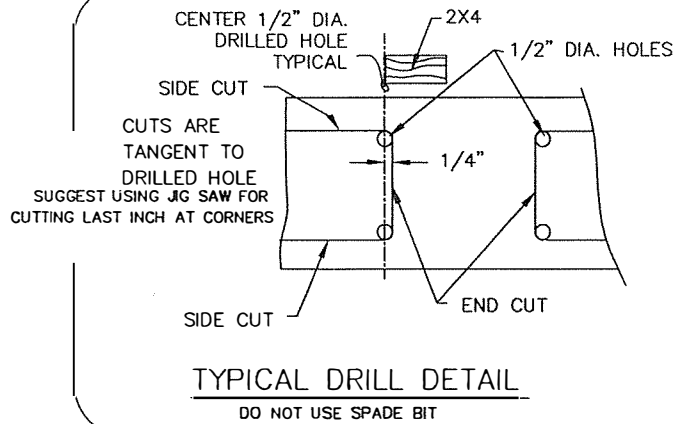
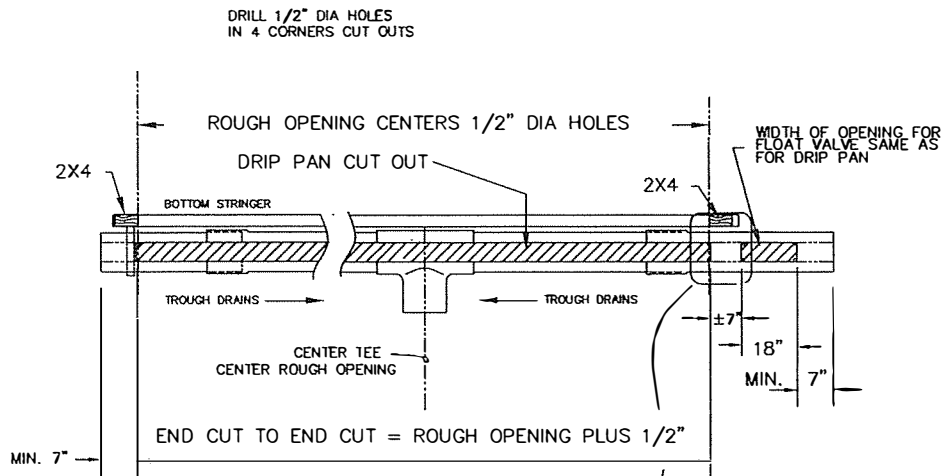
PLACE DRIP PAN IN TROUGH

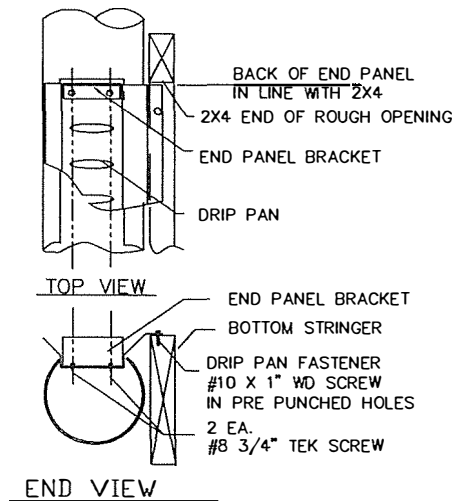
THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN, DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN" THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW. MAKE SURE THE PICKUP LINE AND CAP ASSEMBLY ARE IN PLACE BEFORE INSTALLING DRIP. SEE PICK-UP TUBE DETAIL SH-81



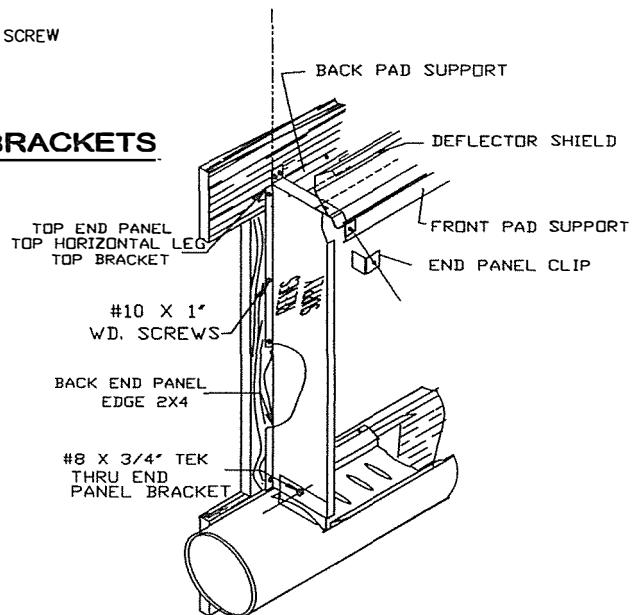
CUT PIPE FOR CENTRIFUGAL PUMP CENTER FEED

DO NOT DISTURB GLUED PIPE
UNTIL GLUE HAS CURED.





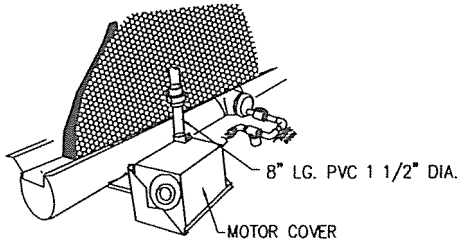
INSTALL END PANELS BRACKETS



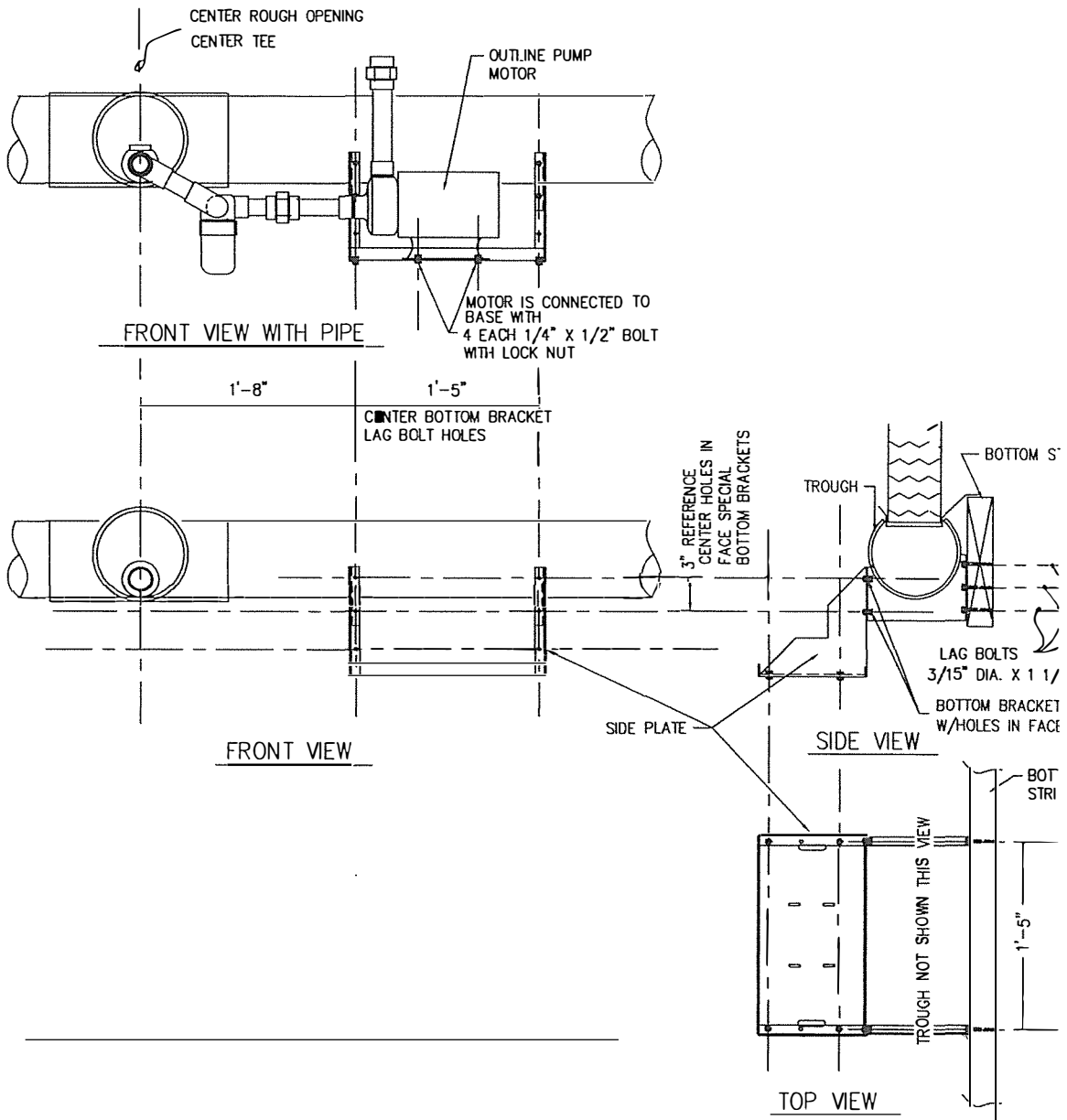
INSTALL END PANELS

BOTH ENDS

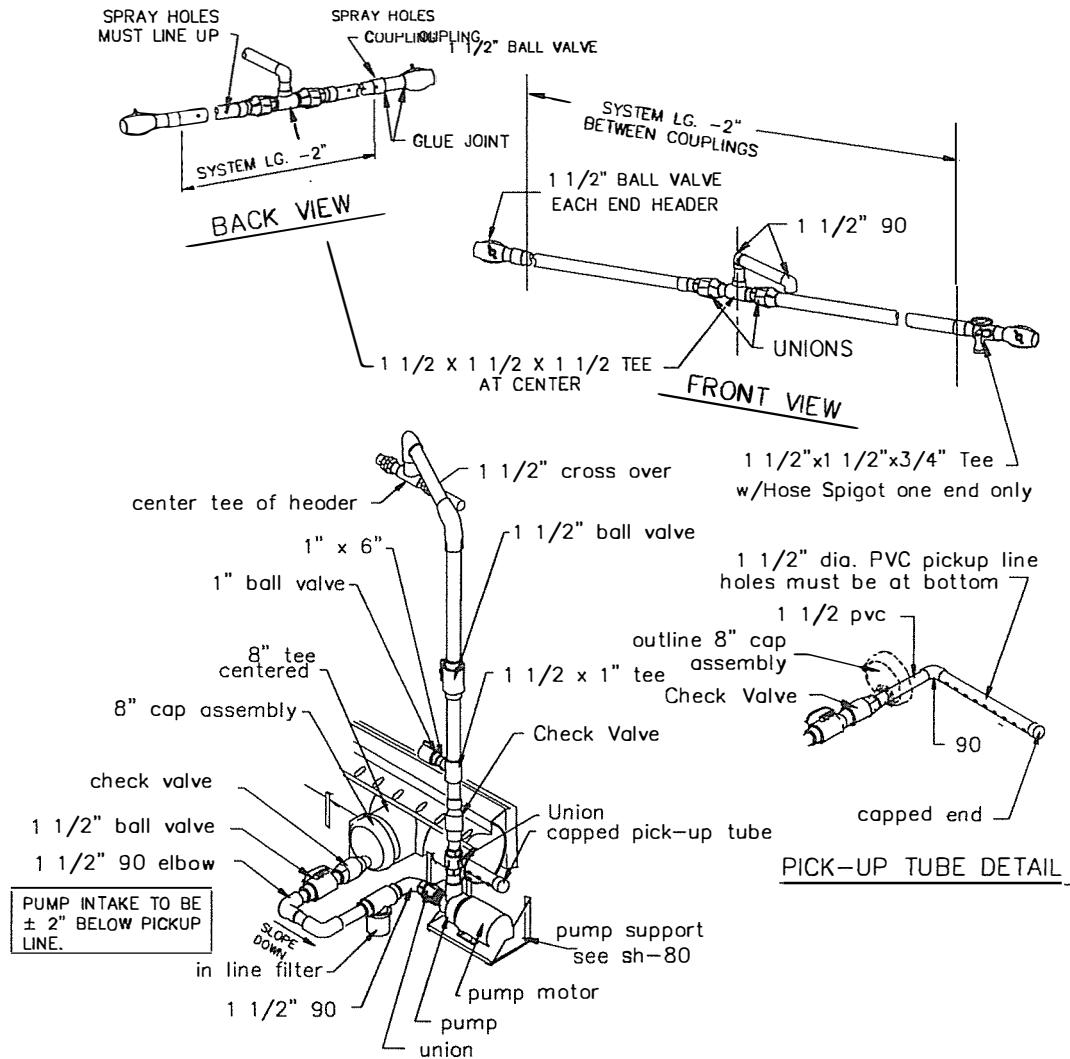
MOTOR SUPPORT FRAME



TYPICALLY THE PUMP IS MOUNTED TO THE RIGHT OF THE CENTER TEE. AS SHOWN BELOW. SHOULD THE PUMP BE PLACED TO THE LEFT AS SHOWN IN THE SKETCH TO THE LEFT THEN AN 8" SECTION OF PIPE SHOULD BE PLACED BETWEEN UNION AND THREADED COUPLER TOP MOTOR. PLACING THE MOTOR ON THE LEFT SIDE CREATES A TIGHT CLEARANCE WITH THE 8" TROUGH.

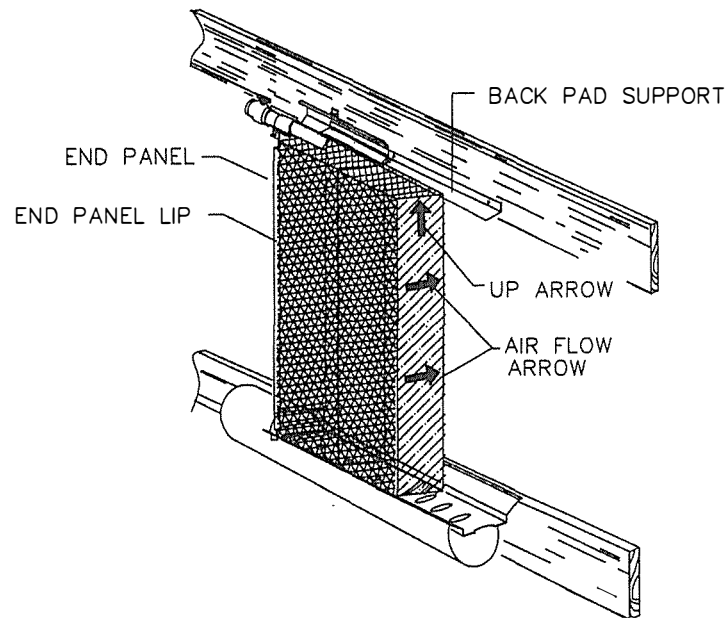


HEADER PIPE FOR CENTER FEED CENTRIFUGAL



SUPPLY HEADER FOR CENTRIFUGAL PUMP

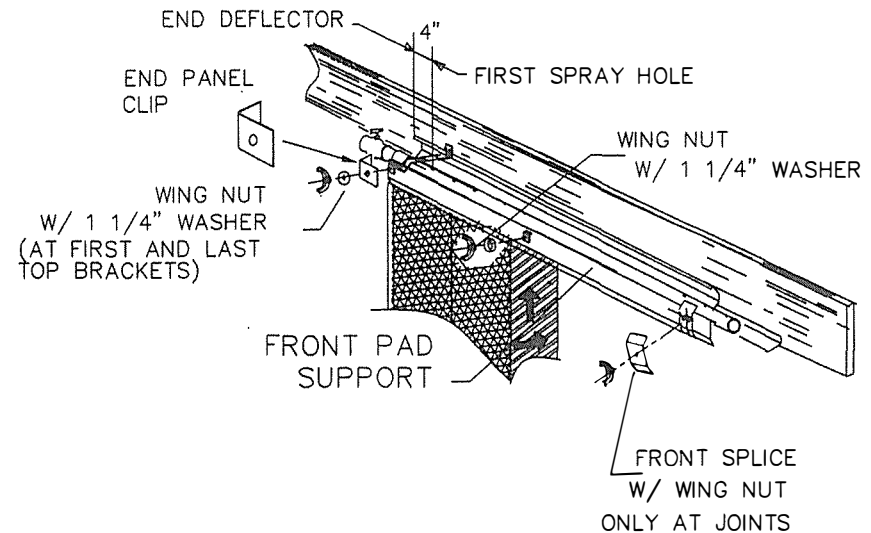
INSTALL PADS



NOTE: SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

INSTALL FRONT PAD SUPPORT

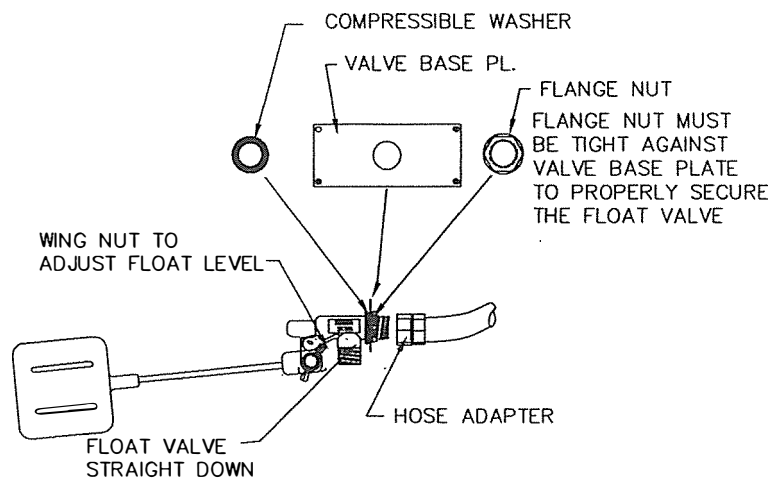
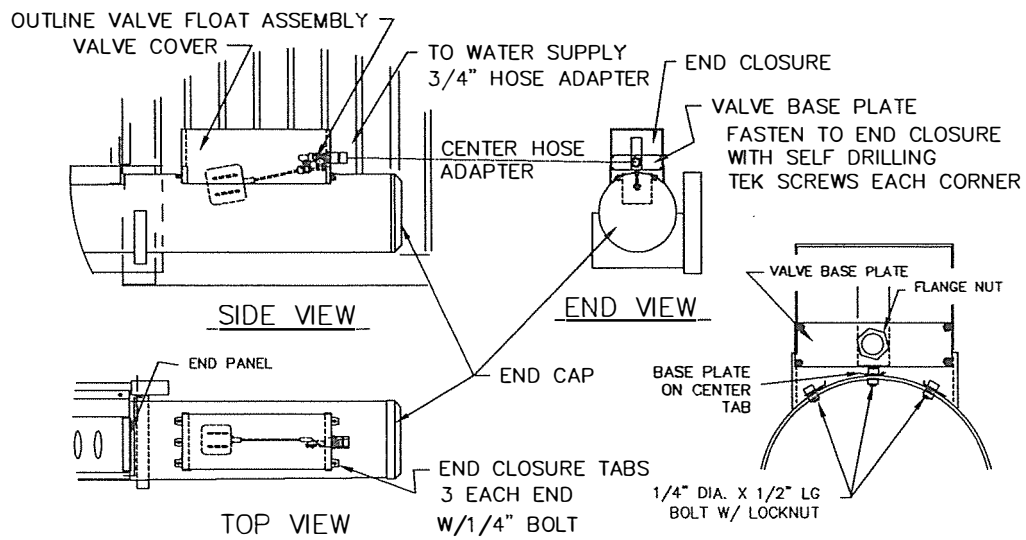


THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

NOTE: ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL.

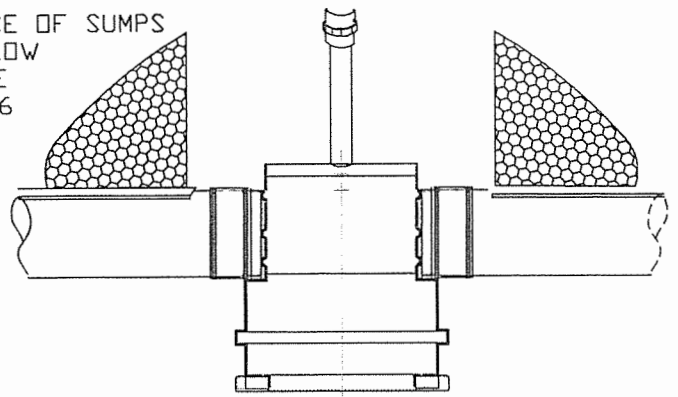
FLOAT VALVE COVER ASSEMBLY

FLOAT VALVE ASSEMBLY

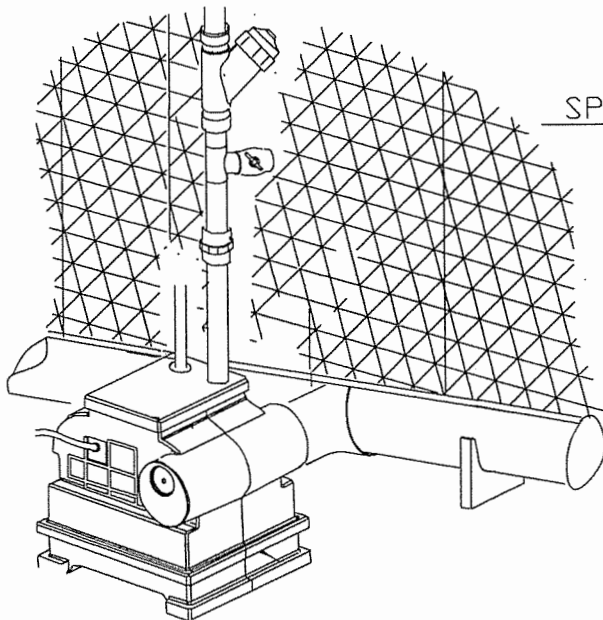


FLOAT VALVE ASSEMBLY

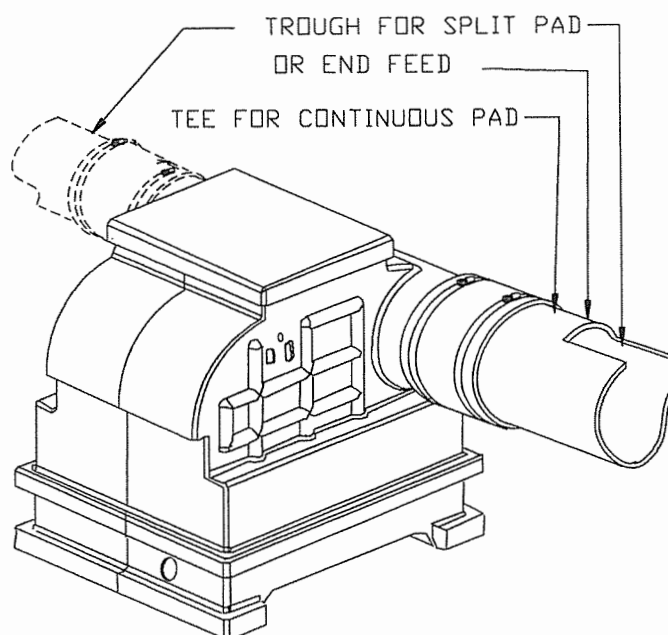
REEVES SUPPLY COMPANY OFFERS CHOICE OF SUMPS FOR THEIR SYSTEMS. THE SKETCHES BELOW SHOW A POLY TANK ALTERNATE FOR THE SUMPS WITH PVC 'TEE' SHOWN ON SH-16 IN THE MANUAL. THE 5 FOLLOWING SHEETS DETAIL THE POLY TANK OPTION. SEE sh-89



SPLIT PAD PARTIAL ELEVATION

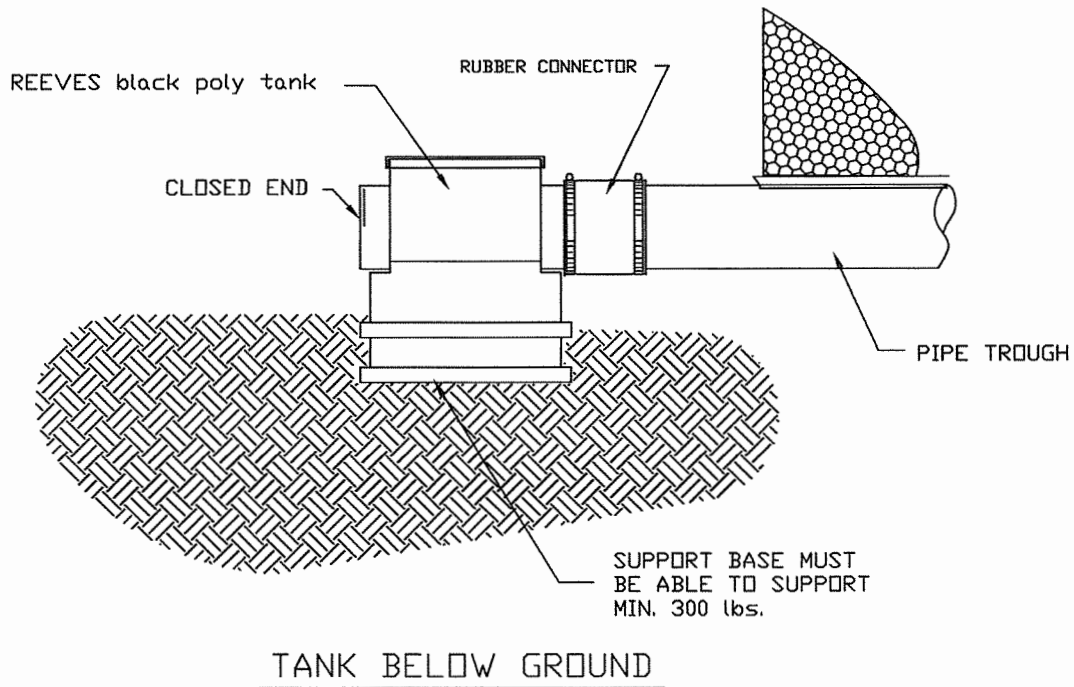
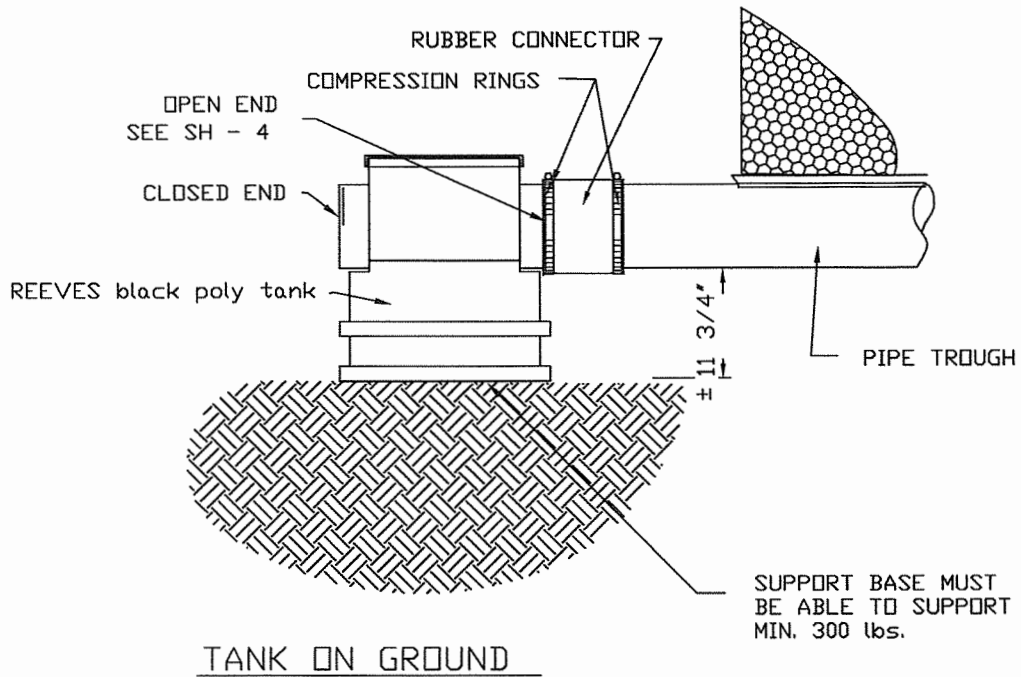


CONTINUOUS PAD PARTIAL ELEVATION

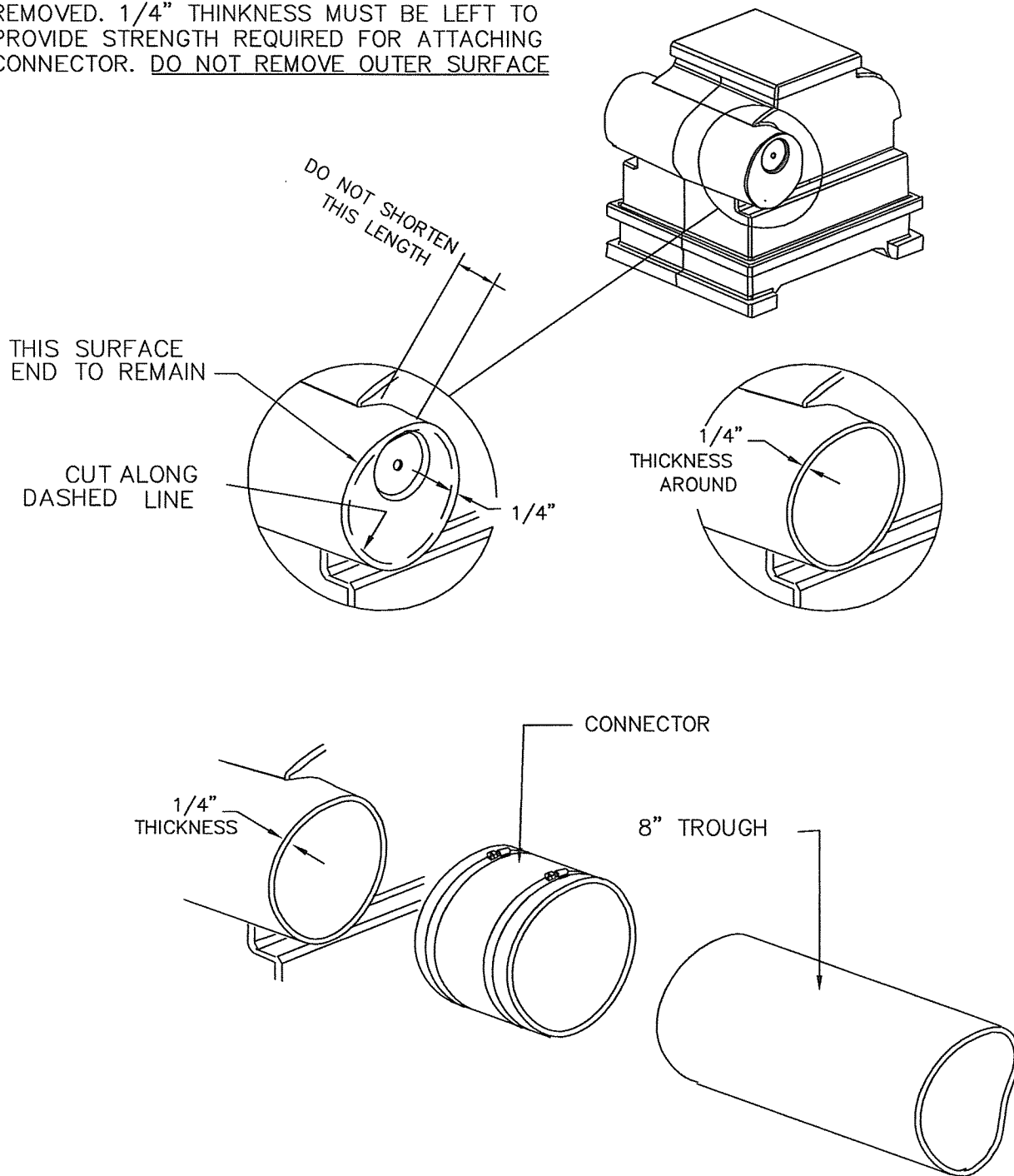


REEVES BLACK POLY TANK

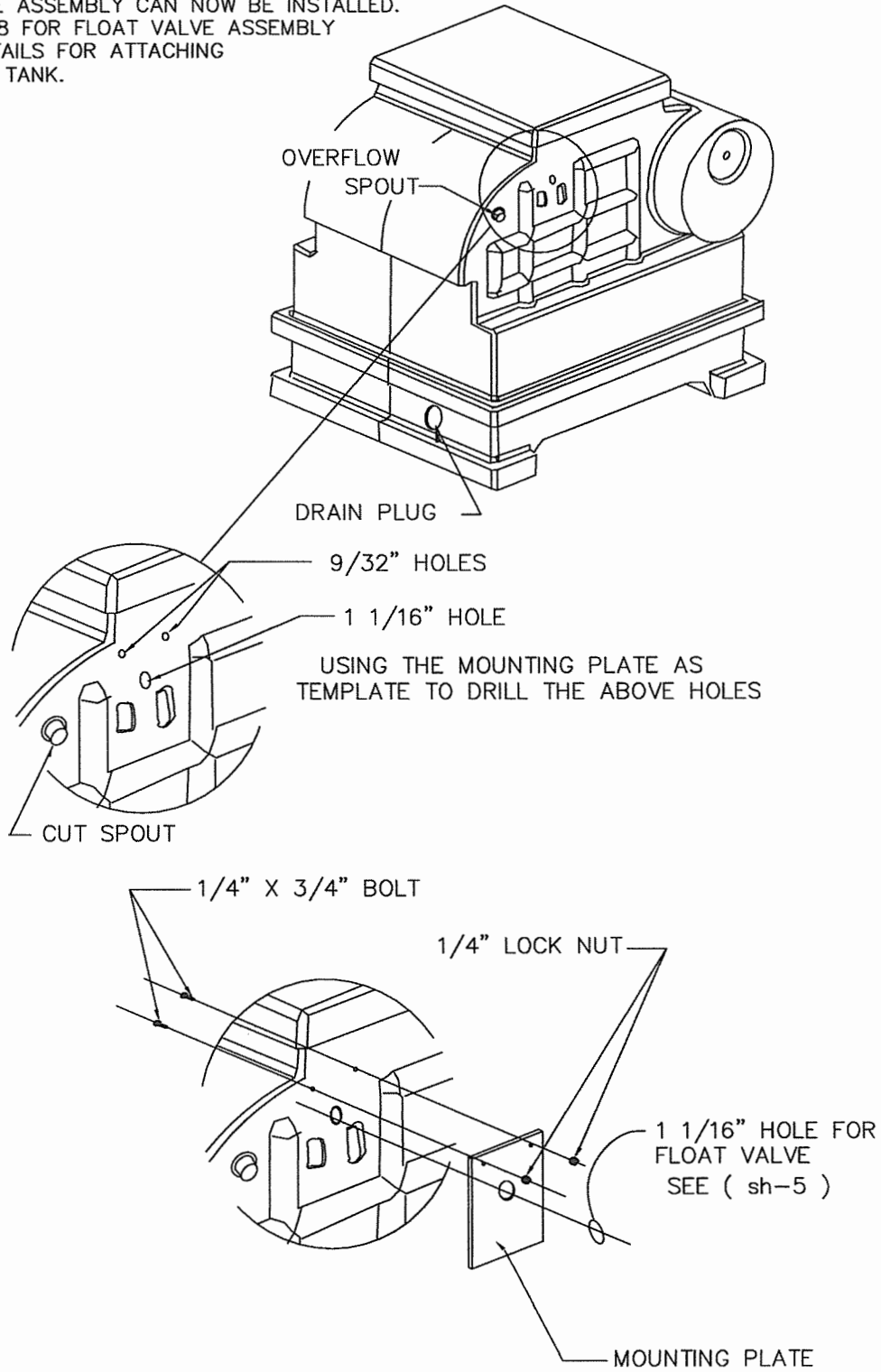
VERTICAL LOCATION OF THE TANK WILL BE DETERMINED BY THE HEIGHT OF THE 8" PVC TROUGH (DRIP COLLECTOR) PIPE. WHETHER THE TANK BASE BE ON TOP OF GROUND OR BELOW TOP GROUND THE SUPPORTING SURFACE MUST BE CAPABLE OF SUPPORTING MINIMUM 300 LBS



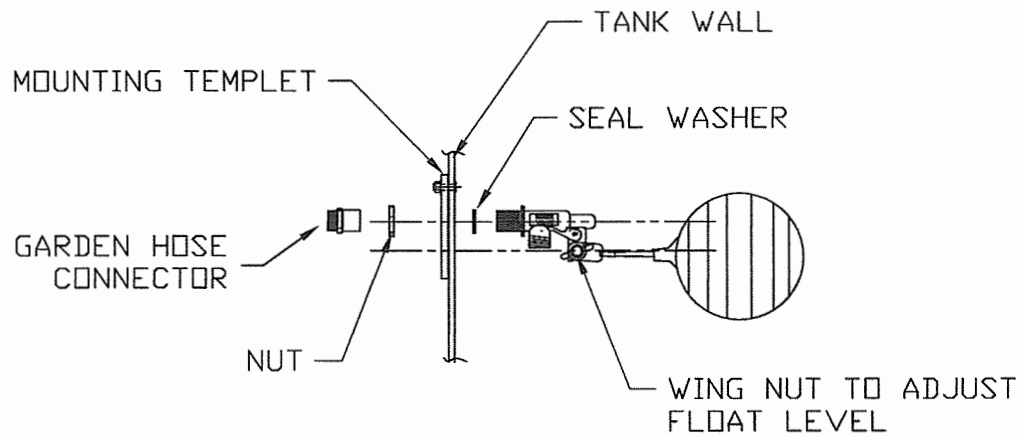
PREPING THE TANK FOR ATTACHING TO THE 8" TROUGH. THE FLAT END TO BE REMOVED AS SHOWN BELOW. IT IS CRITICAL ONLY THE FLAT SURFACE BE REMOVED. 1/4" THICKNESS MUST BE LEFT TO PROVIDE STRENGTH REQUIRED FOR ATTACHING CONNECTOR. DO NOT REMOVE OUTER SURFACE



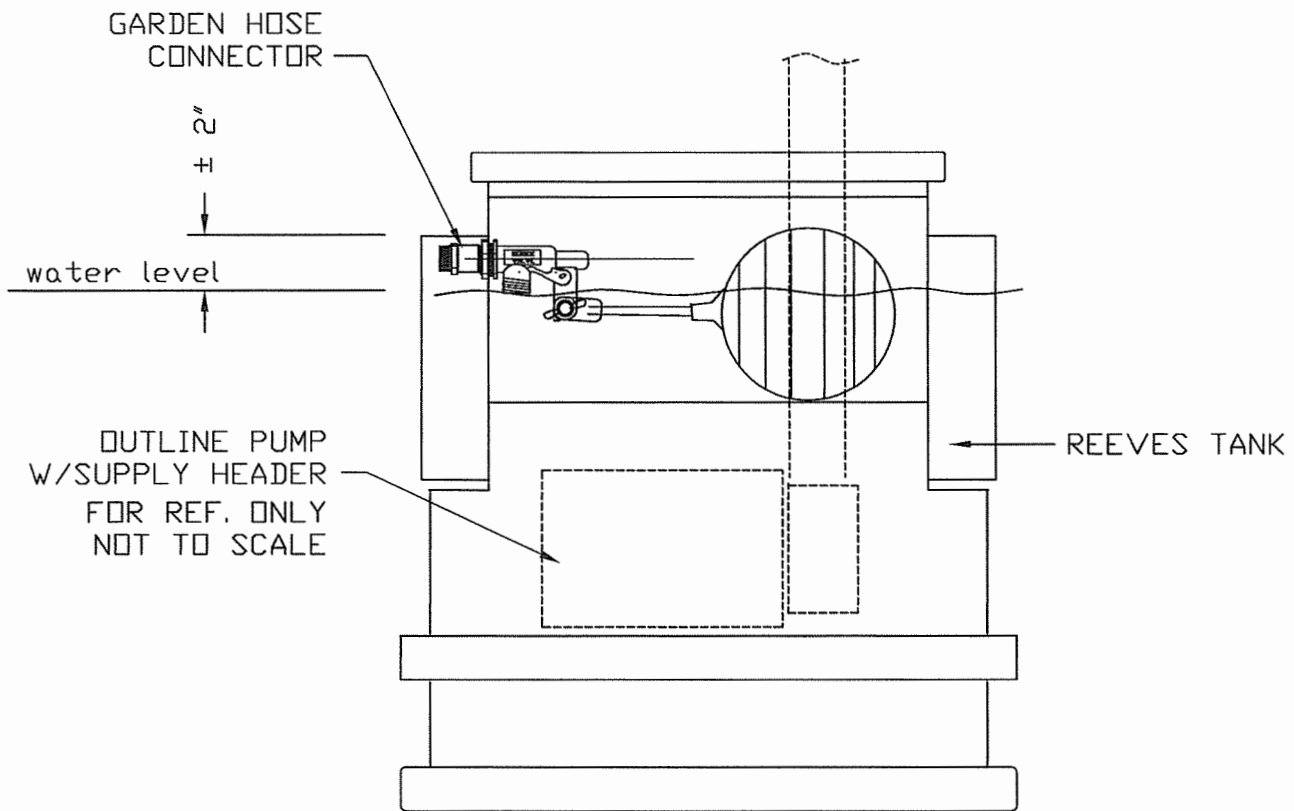
NOW THE MOUNTING PLATE CAN BE FASTENED TO THE EXTERIOR SURFACE OF THE TANK WITH THE 2 EA. 1/4" ϕ x 3/4" lg. WAFER HEAD BOLTS. THE FLOAT VALVE ASSEMBLY CAN NOW BE INSTALLED. REFERENCE sh-88 FOR FLOAT VALVE ASSEMBLY DETAILS AND DETAILS FOR ATTACHING FLOAT VALVE TO TANK.



FLOAT VALVE ASSEMBLY AND INSTALLATION



FLOAT VALVE ASSEMBLY



ASSEMBLED TANK

