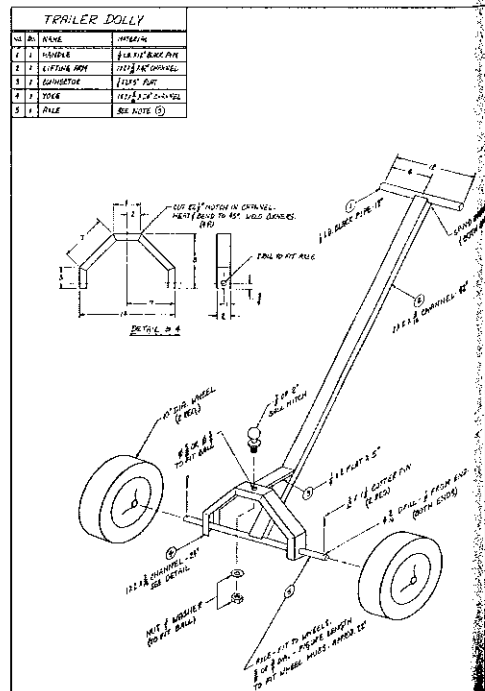
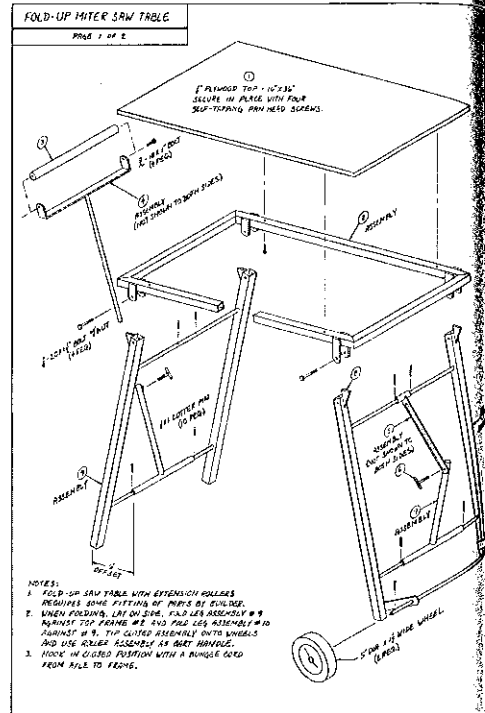
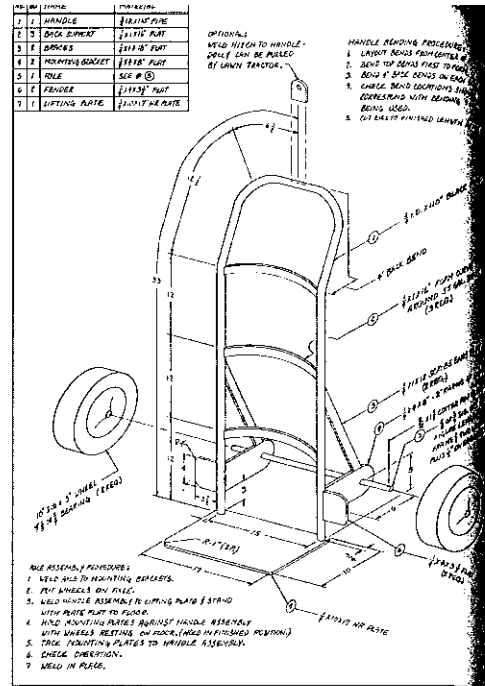


# Shop Equipment

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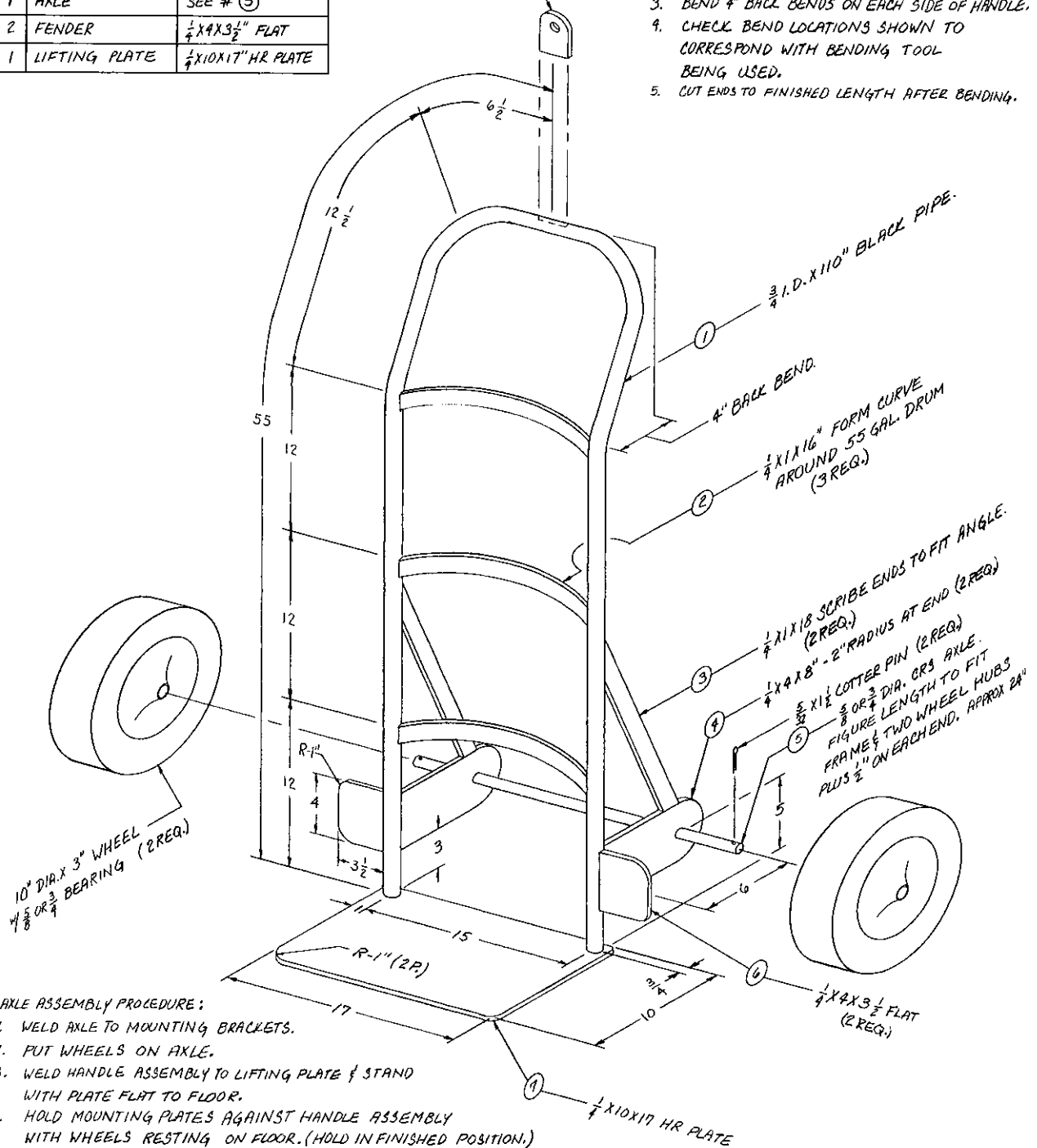
### SHOP DOLLY

NO.	QU.	NAME	MATERIAL
1	1	HANDLE	$\frac{3}{4}$ " I.D. X 110" PIPE
2	3	BACK SUPPORT	$\frac{1}{4}$ " X 1 X 16" FLAT
3	2	BRACES	$\frac{1}{4}$ " X 1 X 18" FLAT
4	2	MOUNTING BRACKET	$\frac{1}{4}$ " X 4 X 8" FLAT
5	1	AXLE	SEE # ⑤
6	2	FENDER	$\frac{1}{4}$ " X 4 X 3 $\frac{1}{2}$ " FLAT
7	1	LIFTING PLATE	$\frac{1}{4}$ " X 10 X 17" HR PLATE

OPTIONAL:  
WELD HITCH TO HANDLE -  
DOLLY CAN BE PULLED  
BY LAWN TRACTOR.

**HANDLE BENDING PROCEDURE:**

1. LAYOUT BENDS FROM CENTER OF HANDLE.
2. BEND TOP BENDS FIRST TO FORM "U" SHAPE.
3. BEND 4" BACK BENDS ON EACH SIDE OF HANDLE.
4. CHECK BEND LOCATIONS SHOWN TO CORRESPOND WITH BENDING TOOL BEING USED.
5. CUT ENDS TO FINISHED LENGTH AFTER BENDING.

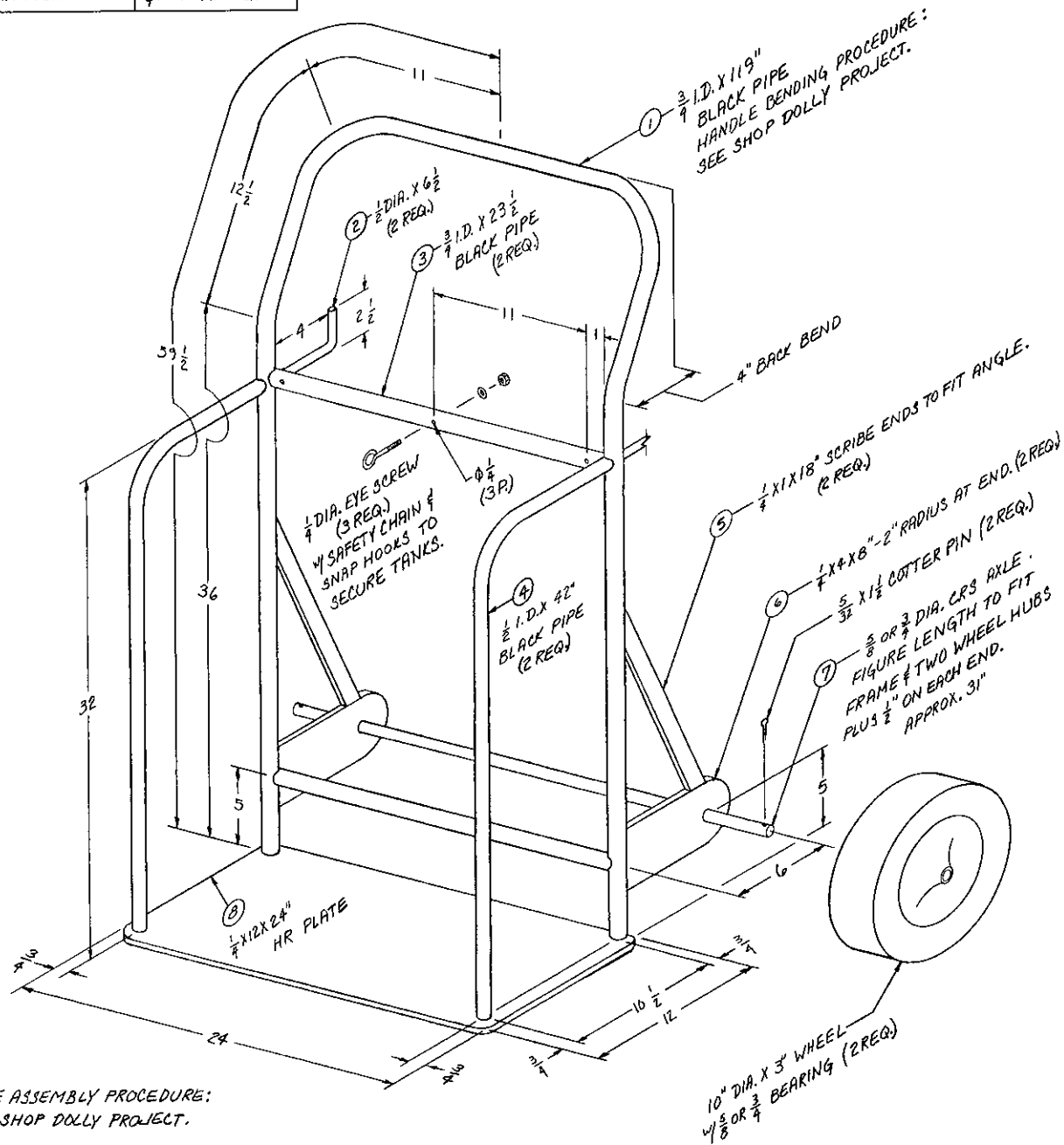


**AXLE ASSEMBLY PROCEDURE:**

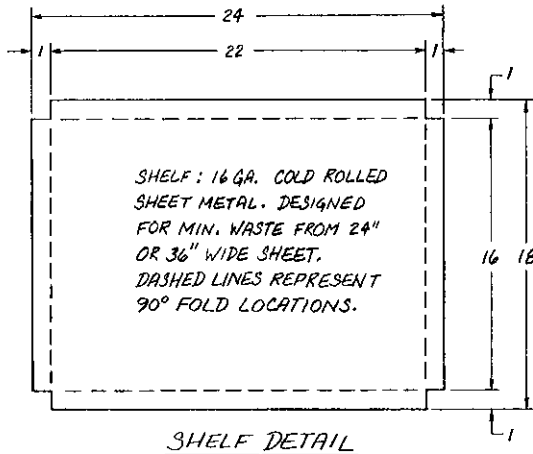
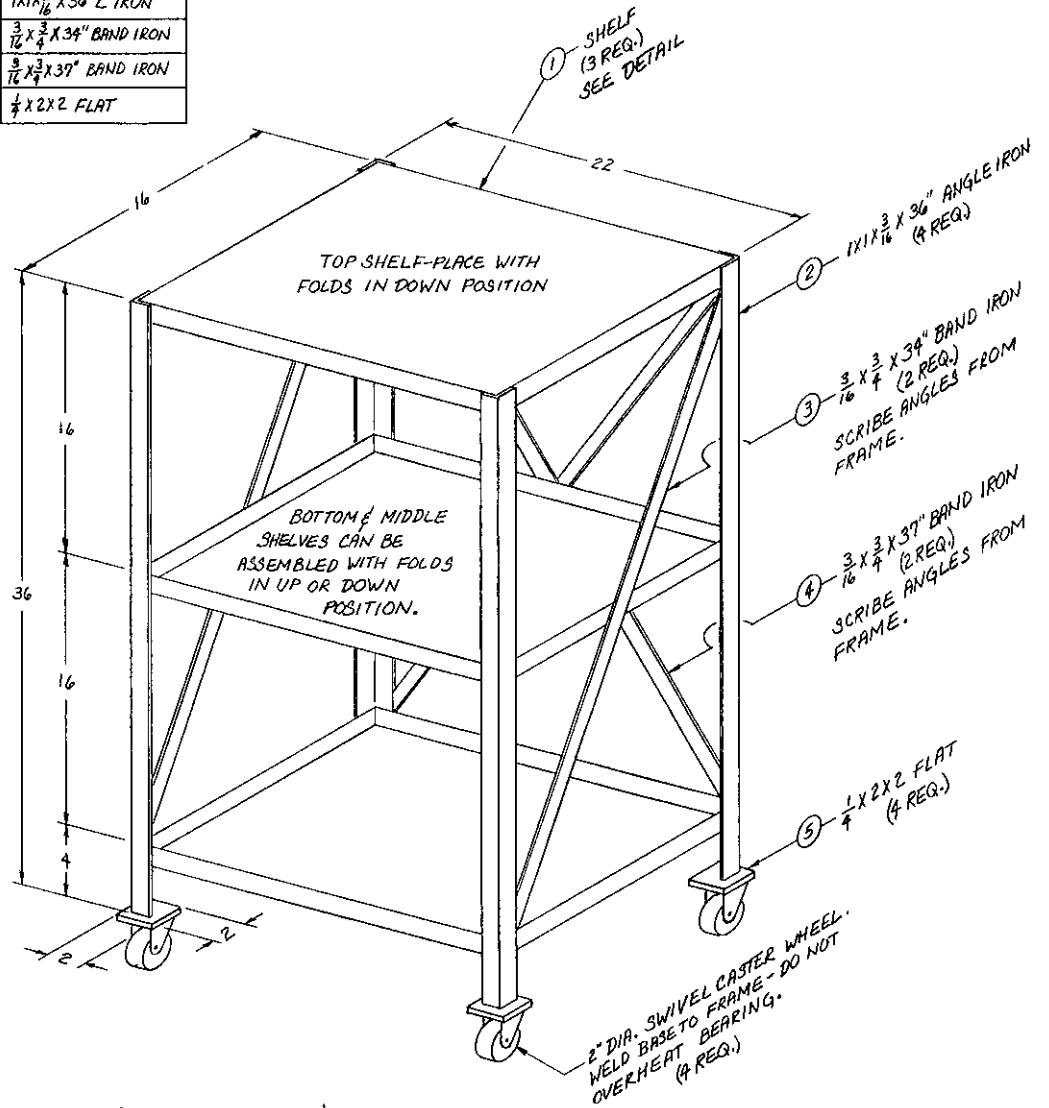
1. WELD AXLE TO MOUNTING BRACKETS.
2. PUT WHEELS ON AXLE.
3. WELD HANDLE ASSEMBLY TO LIFTING PLATE & STAND WITH PLATE FLAT TO FLOOR.
4. HOLD MOUNTING PLATES AGAINST HANDLE ASSEMBLY WITH WHEELS RESTING ON FLOOR. (HOLD IN FINISHED POSITION.)
5. TACK MOUNTING PLATES TO HANDLE ASSEMBLY.
6. CHECK OPERATION.
7. WELD IN PLACE.

WELDING TANK CART

NO.	QU.	NAME	MATERIAL
1	1	HANDLE	$\frac{3}{4}$ " I.D. X 1 1/2" PIPE
2	2	HOSE HANGER	$\frac{1}{2}$ " DIA. X 6 1/2" HR ROD
3	2	BACK SUPPORT	$\frac{3}{4}$ " I.D. X 23 1/2" PIPE
4	2	SIDE BAR	$\frac{1}{2}$ " I.D. X 42" PIPE
5	2	BRACE	$\frac{1}{4}$ " X 1 X 18" FLAT
6	2	MOUNTING BRACKET	$\frac{1}{4}$ " X 4 X 8" FLAT
7	1	AXLE	SEE # ⑦
8	1	TANK PLATE	$\frac{1}{4}$ " X 12 X 24" HR PLATE



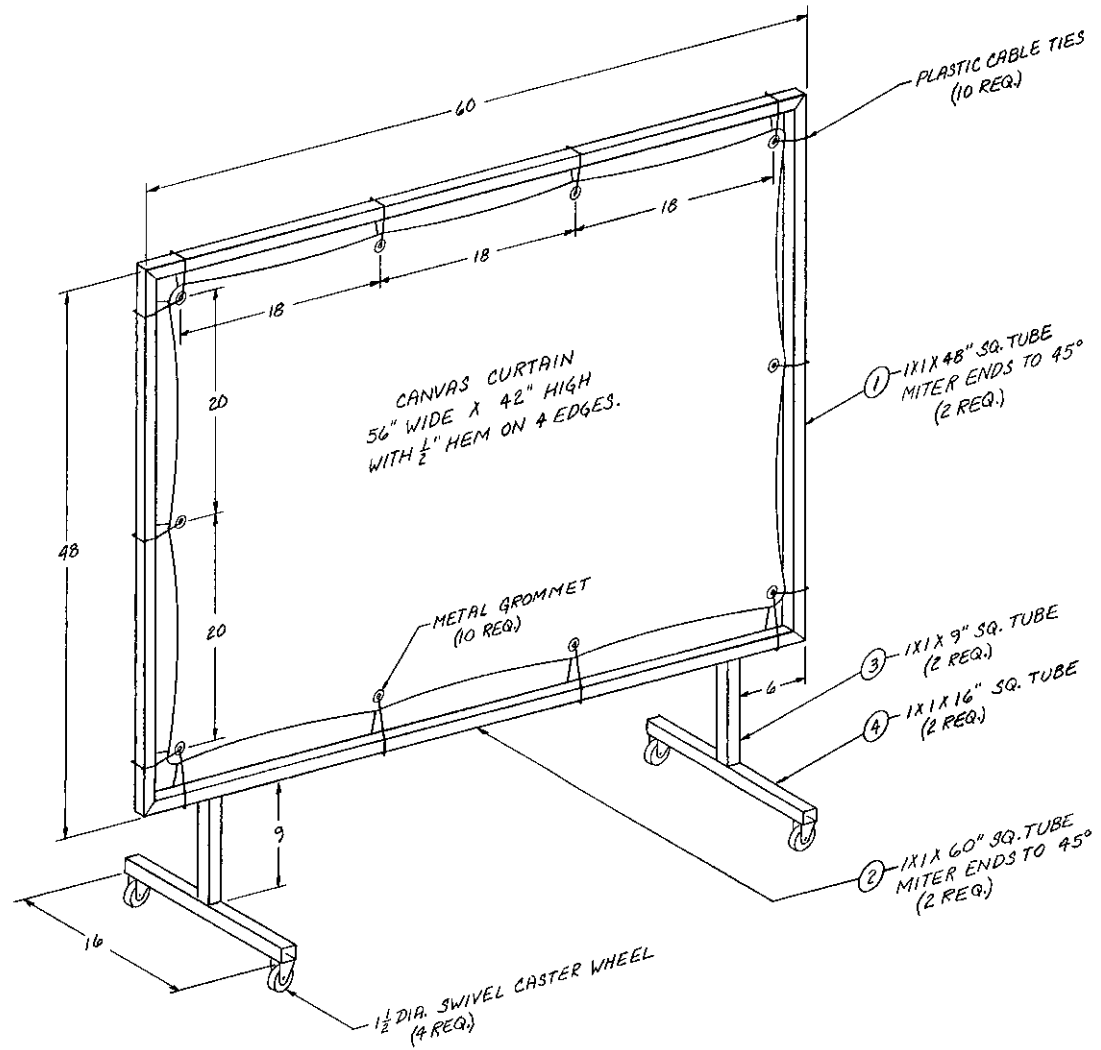
SHOP TOOL CART			
NO.	QU.	NAME	MATERIAL
1	3	SHELF	16 GA. X18 X 24 CR SHEET
2	4	LEG	1 X 1 X $\frac{3}{16}$ X 36" L IRON
3	2	SIDE BRACE	$\frac{3}{16}$ X $\frac{3}{4}$ X 34" BAND IRON
4	2	BACK BRACE	$\frac{3}{16}$ X $\frac{3}{4}$ X 37" BAND IRON
5	4	FOOT	$\frac{1}{4}$ X 2 X 2 FLAT



NOTE:  
SHOP TOOL CART JOINT CONNECTIONS ARE IDEAL FOR BRAZING PROCESS.

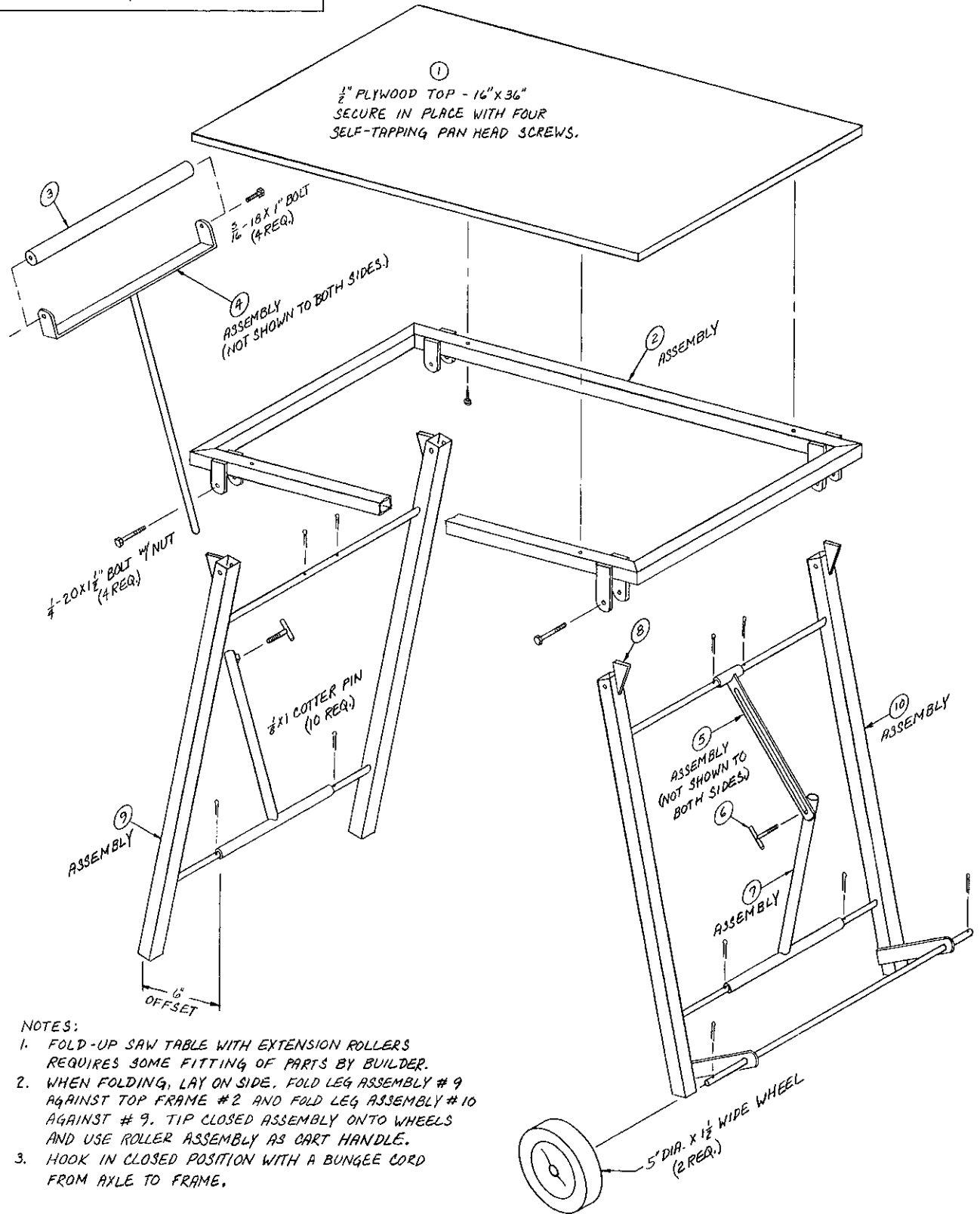
## PORTABLE WELDING CURTAIN

NO.	QU.	NAME	MATERIAL
1	2	SIDES	1X1X48" SQ. TUBE
2	2	TOP - BOTTOM	1X1X60" SQ. TUBE
3	2	LEG	1X1X9" SQ. TUBE
4	2	BASE	1X1X16" SQ. TUBE



FOLD-UP MITER SAW TABLE

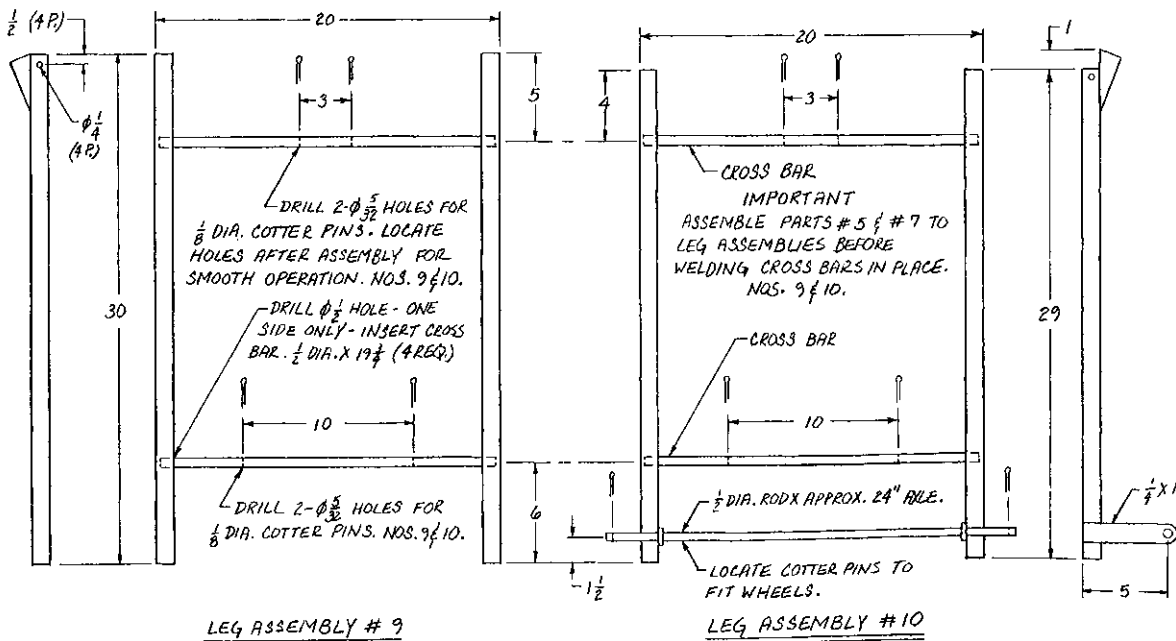
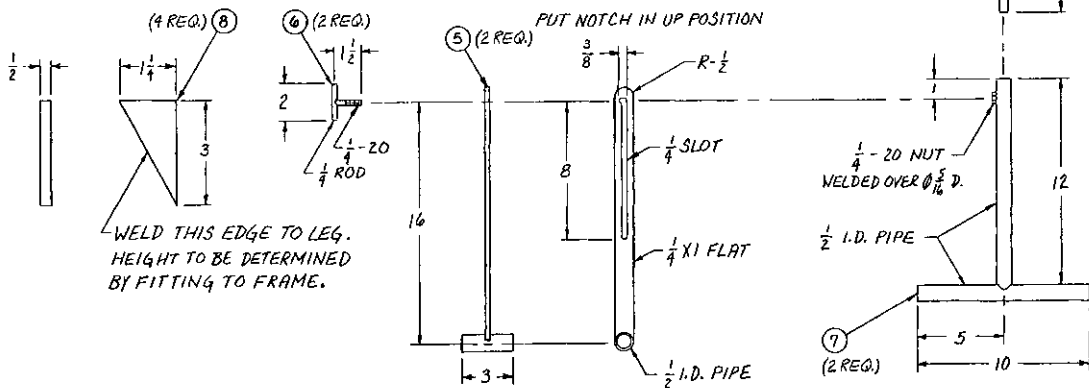
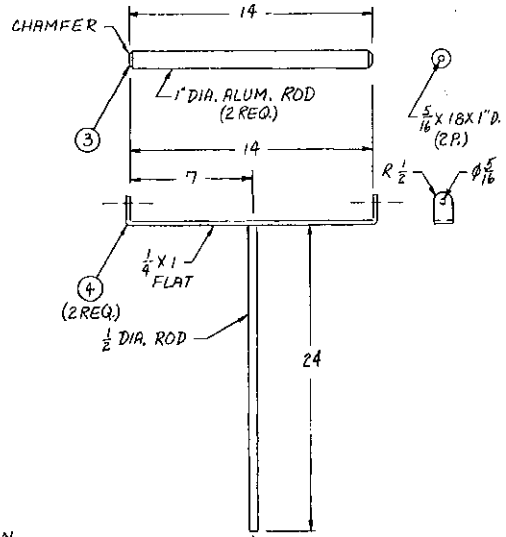
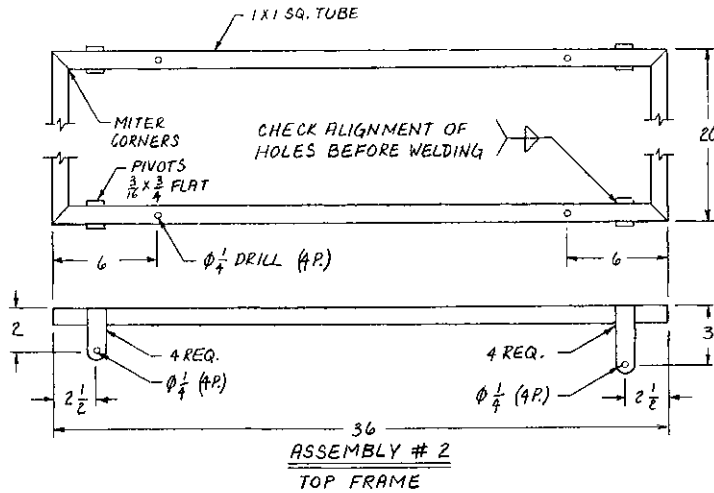
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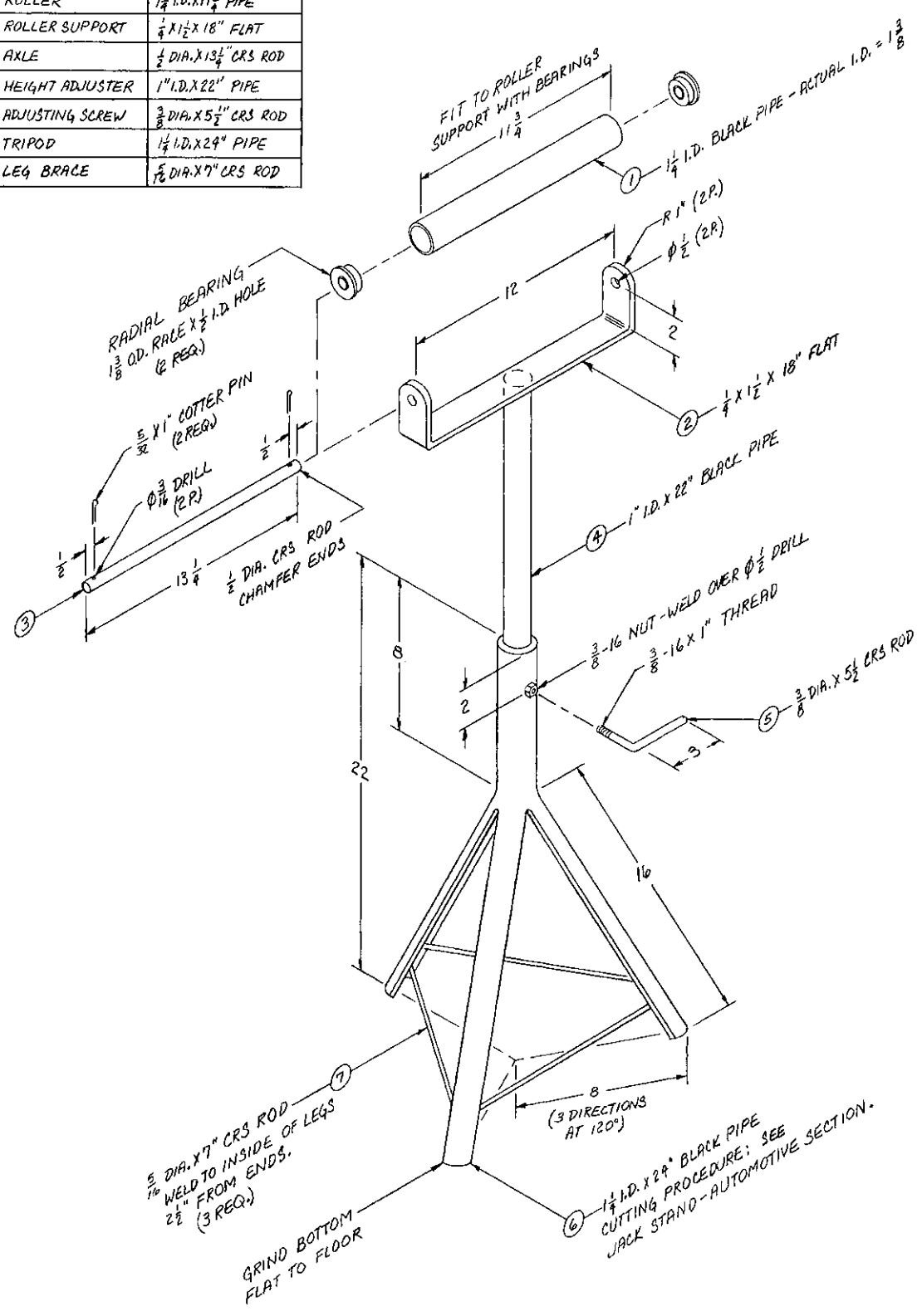
NOTES:

1. FOLD-UP SAW TABLE WITH EXTENSION ROLLERS REQUIRES SOME FITTING OF PARTS BY BUILDER.
2. WHEN FOLDING, LAY ON SIDE, FOLD LEG ASSEMBLY # 9 AGAINST TOP FRAME # 2 AND FOLD LEG ASSEMBLY # 10 AGAINST # 9. TIP CLOSED ASSEMBLY ONTO WHEELS AND USE ROLLER ASSEMBLY AS CART HANDLE.
3. HOOK IN CLOSED POSITION WITH A BUNGEE CORD FROM AXLE TO FRAME.

FOLD-UP MITER SAW TABLE							
3	2	ROLLER	1" DIA. X 14" ALUM. ROD	8	4	LEG STOP	1/4" X 1 1/2" X 3" HR PLATE
4	2	ROLLER BRACKET	SEE ASSEMBLY	9	1	LEG ASSEMBLY	SEE ASSEMBLY DETAIL
5	2	SWING ARM	SEE ASSEMBLY	10	1	LEG-WHEEL ASSEMBLY	SEE ASSEMBLY DETAIL
1	1	TOP	1/2" X 16" X 36" PLYWOOD	PAGE 2 OF 2			
2	1	TOP FRAME	SEE ASSEMBLY DETAIL	6	2	LOCK	1/4" DIA. X 3 1/2" CRS ROD
				7	2	ROLLER PIVOT	SEE ASSEMBLY



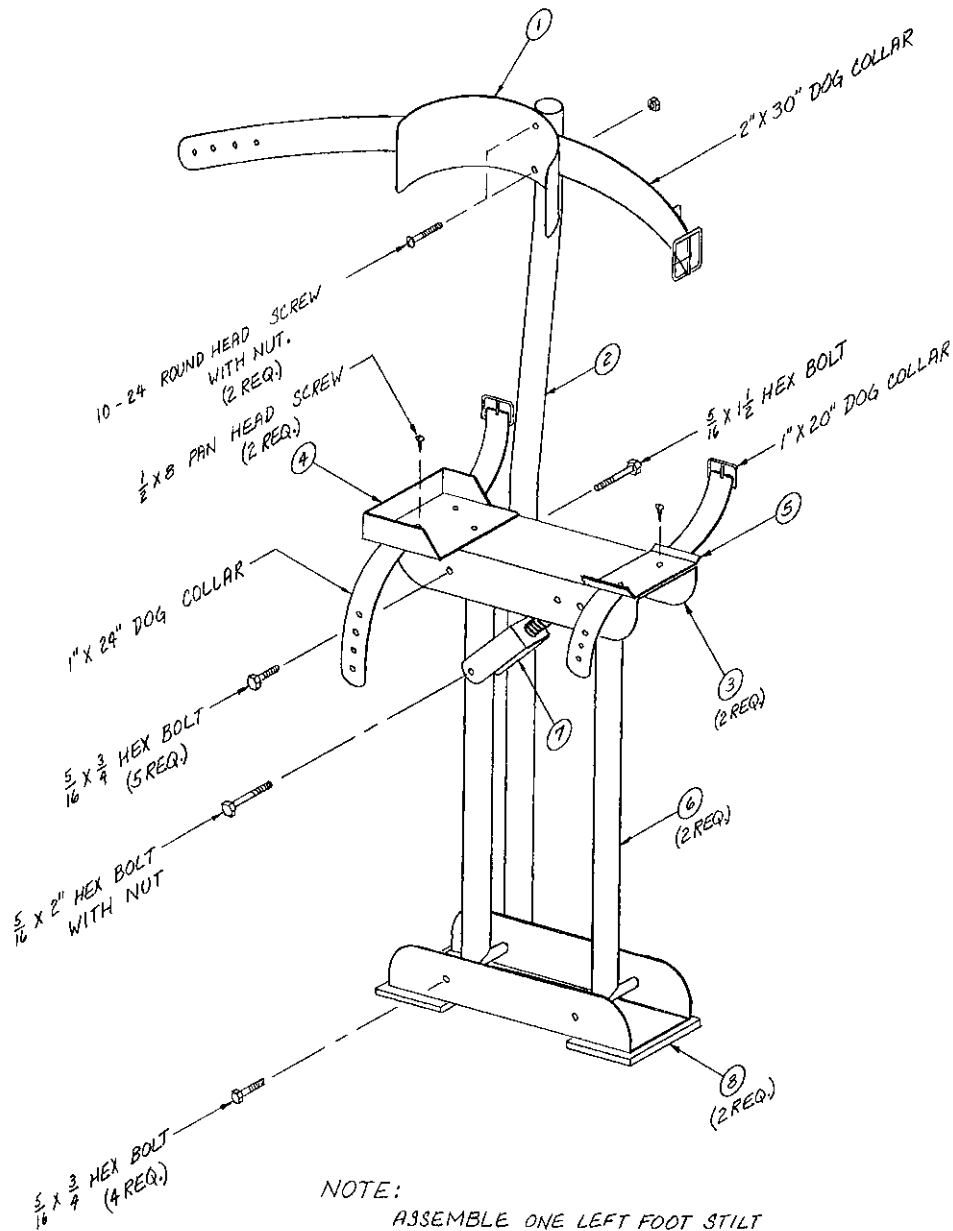
SAW TABLE EXTENSION ROLLER			
NO.	QU.	NAME	MATERIAL
1	1	ROLLER	$1\frac{1}{4}$ " I.D. X $11\frac{3}{4}$ " PIPE
2	1	ROLLER SUPPORT	$\frac{1}{4}$ " X $1\frac{1}{2}$ " X 18" FLAT
3	1	AXLE	$\frac{1}{2}$ " DIA. X $13\frac{1}{4}$ " CRS ROD
4	1	HEIGHT ADJUSTER	1" I.D. X 22" PIPE
5	1	ADJUSTING SCREW	$\frac{3}{8}$ " DIA. X $5\frac{1}{2}$ " CRS ROD
6	1	TRIPOD	$1\frac{1}{4}$ " I.D. X 24" PIPE
7	3	LEG BRACE	$\frac{5}{16}$ " DIA. X 7" CRS ROD





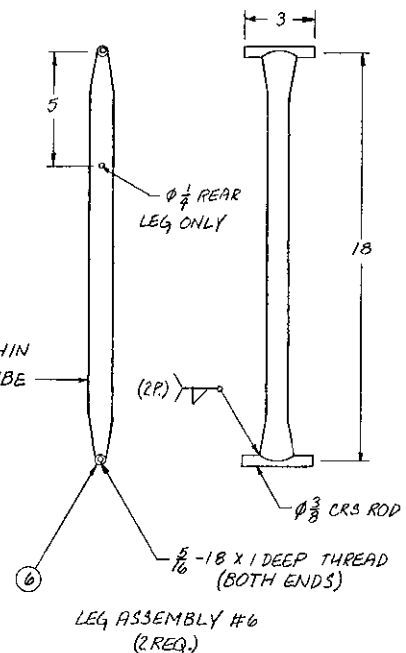
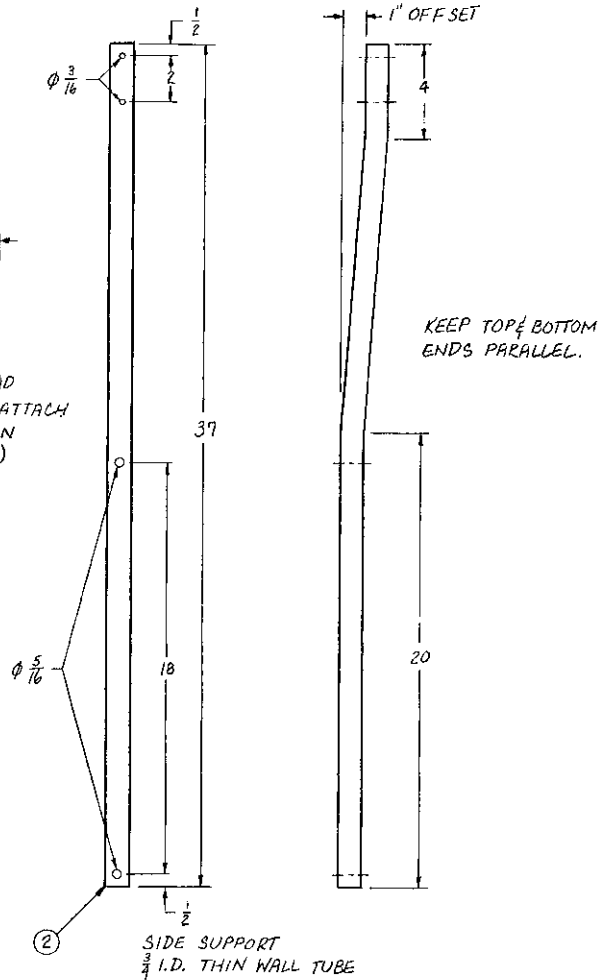
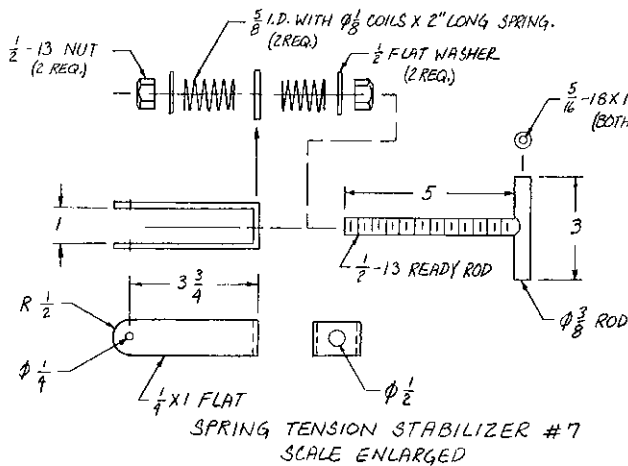
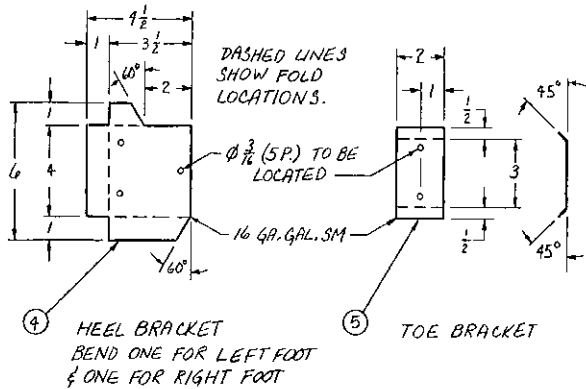
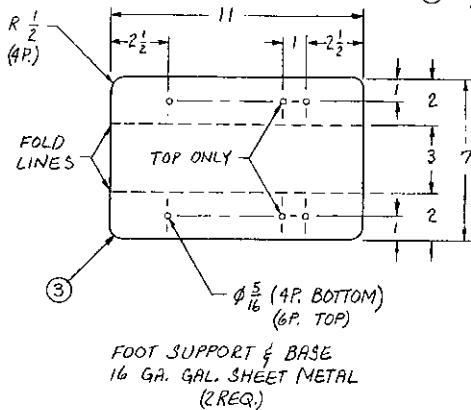
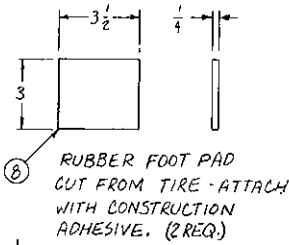
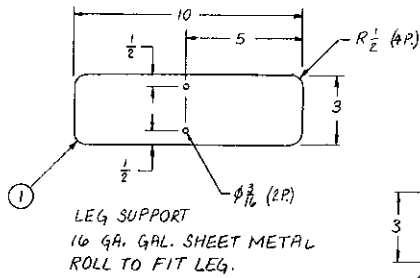
### DRYWALL STILTS

				3	2	FOOT - BASE	7X10X16 GA. SHEET	8	2	FOOT PADS	$\frac{1}{4}$ " X $3 \times 3\frac{1}{2}$ " RUBBER PAD
				4	1	HEEL BRACKET	$4\frac{1}{2}$ " X $6 \times 16$ GA. SHEET	PAGE 1 OF 2			
				5	1	TOE BRACKET	2X4 X 16 GA. SHEET	MATERIAL X 2 FOR SET			
1	1	LEG SUPPORT	3X10X16 GA. SHEET	6	2	LEGS	SEE ASSEMBLY				
2	1	SIDE SUPPORT	$\frac{3}{4}$ " I.D. X $37$ " THIN WALL	7	1	STABILIZER	SEE ASSEMBLY				



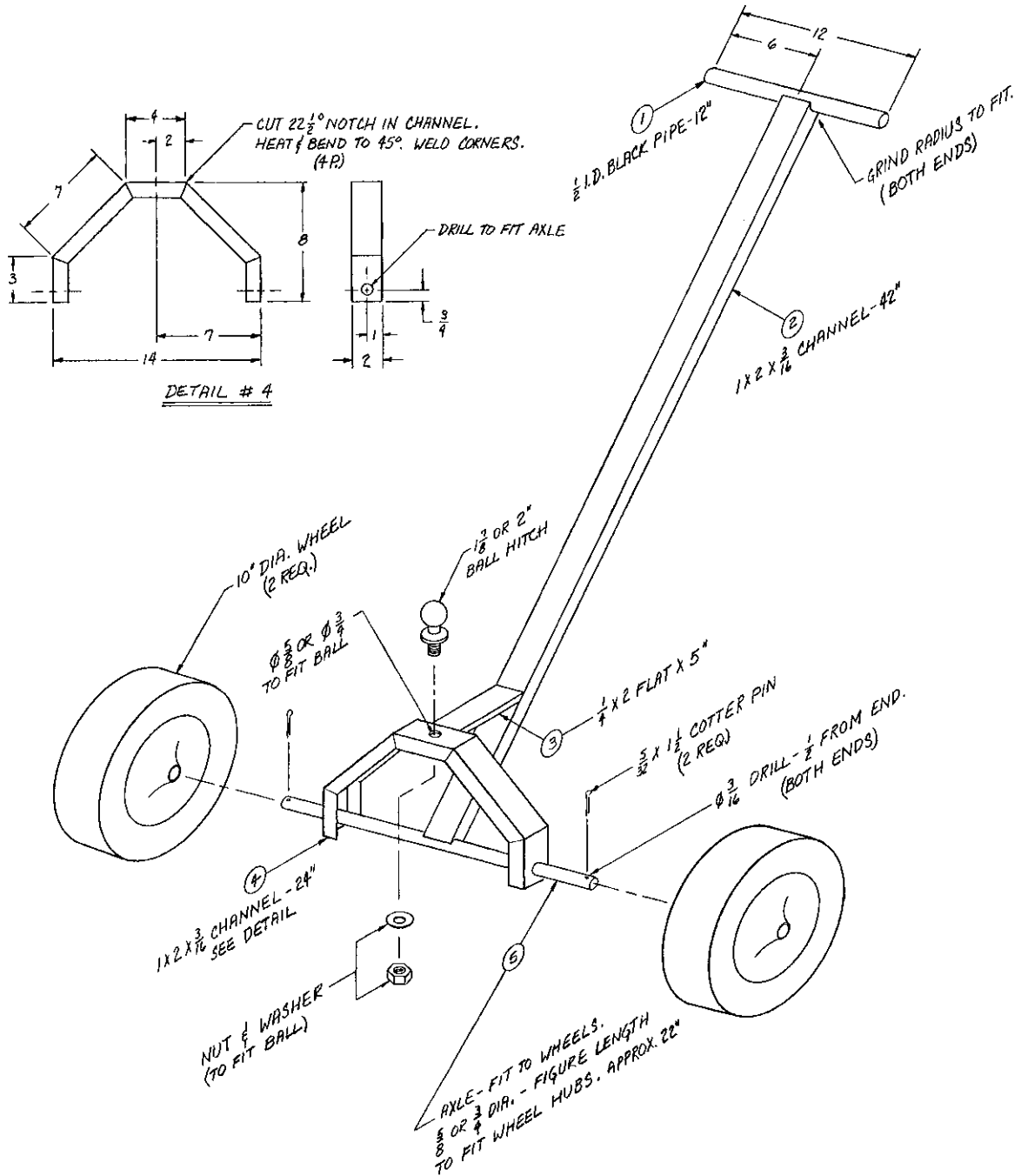
DRYWALL STILTS

PAGE 2 OF 2

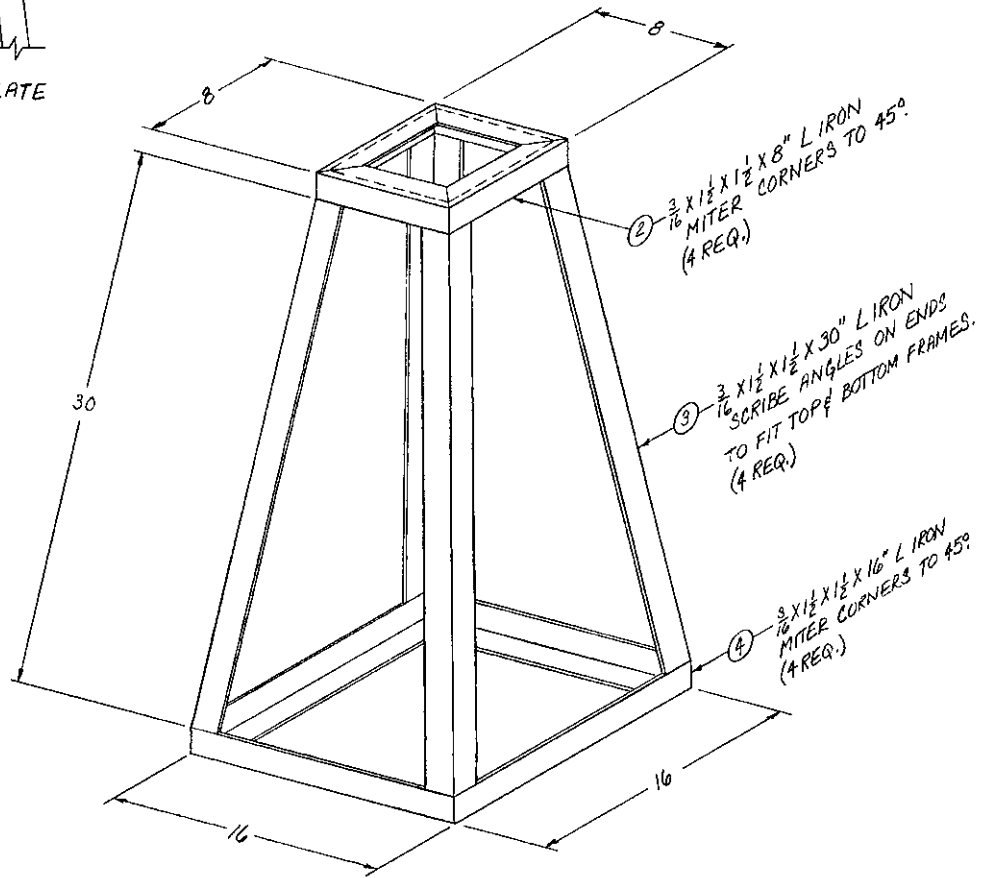
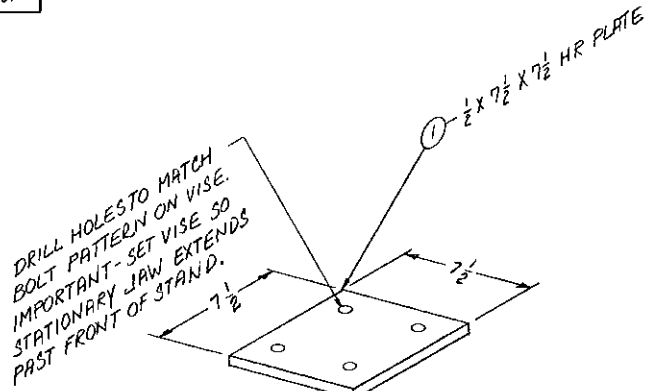
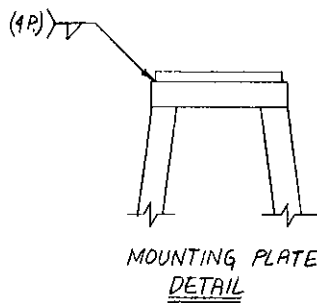


### TRAILER DOLLY

NO.	QU.	NAME	MATERIAL
1	1	HANDLE	$\frac{1}{2}$ I.D. X 12" BLACK PIPE
2	1	LIFTING ARM	1 X 2 X $\frac{3}{16}$ X 42" CHANNEL
3	1	CONNECTOR	$\frac{1}{4}$ X 2 X 5" FLAT
4	1	YOKE	1 X 2 X $\frac{3}{16}$ X 24" CHANNEL
5	1	AXLE	SEE NOTE ③

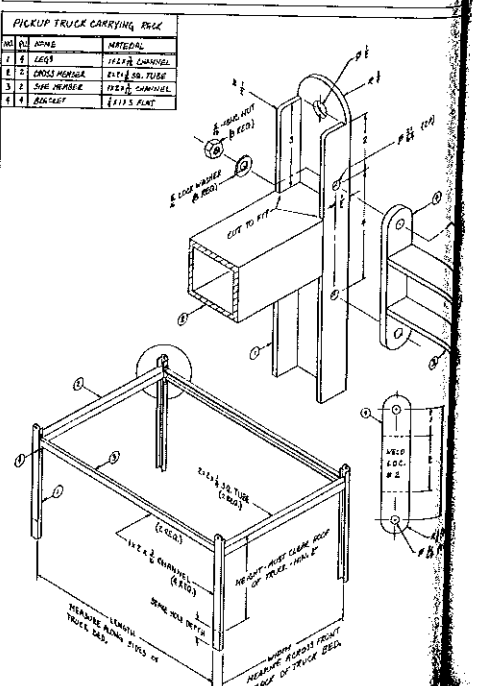
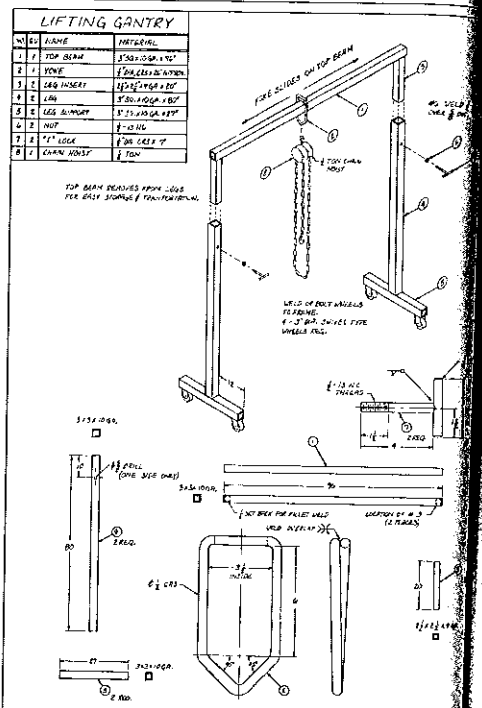
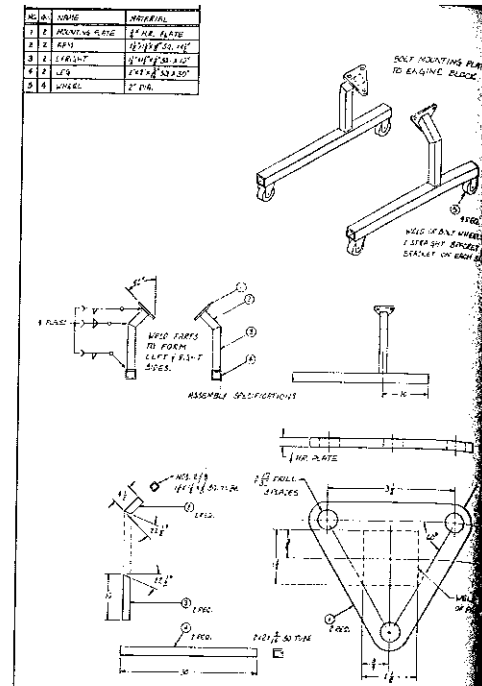


PORTABLE VISE STAND			
NO.	QU.	NAME	MATERIAL
1	1	MOUNTING PLATE	$\frac{1}{2}$ " X $7\frac{1}{2}$ " X $7\frac{1}{2}$ " HR PLATE
2	4	TOP FRAME	$\frac{3}{16}$ " X $1\frac{1}{2}$ " X $1\frac{1}{2}$ " X 8" L IRON
3	4	LEG	$\frac{3}{16}$ " X $1\frac{1}{2}$ " X $1\frac{1}{2}$ " X 30" L IRON
4	4	BOTTOM FRAME	$\frac{3}{16}$ " X $1\frac{1}{2}$ " X $1\frac{1}{2}$ " X 16" L IRON

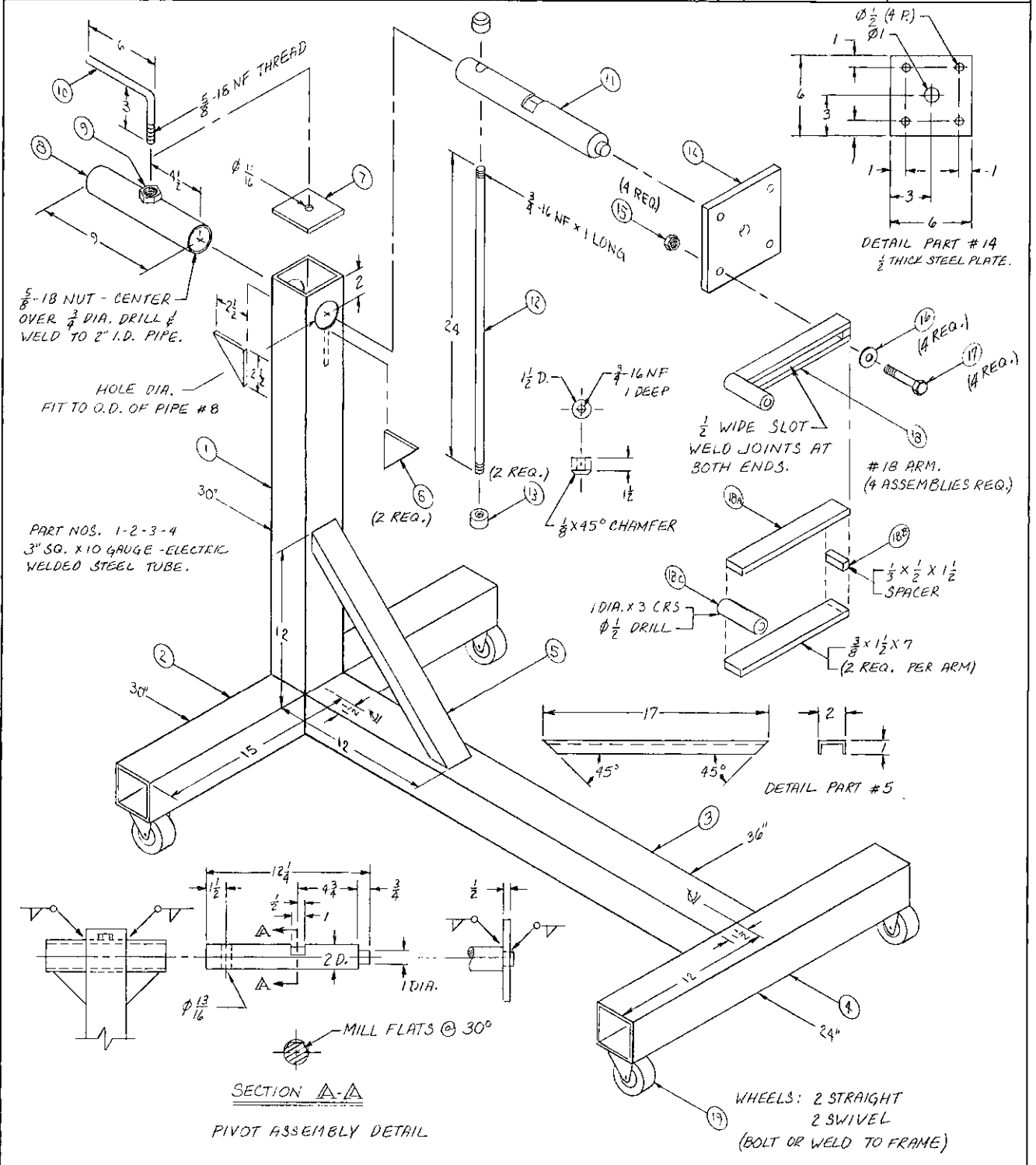


# Auto Equipment

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Adjustable Height Hitch .....	69
Pickup Truck Carrying Rack .....	70
Motorcycle Repair Stand .....	71
Car Ramp .....	72
Jack Stand .....	73
Pickup Truck Door Step .....	74



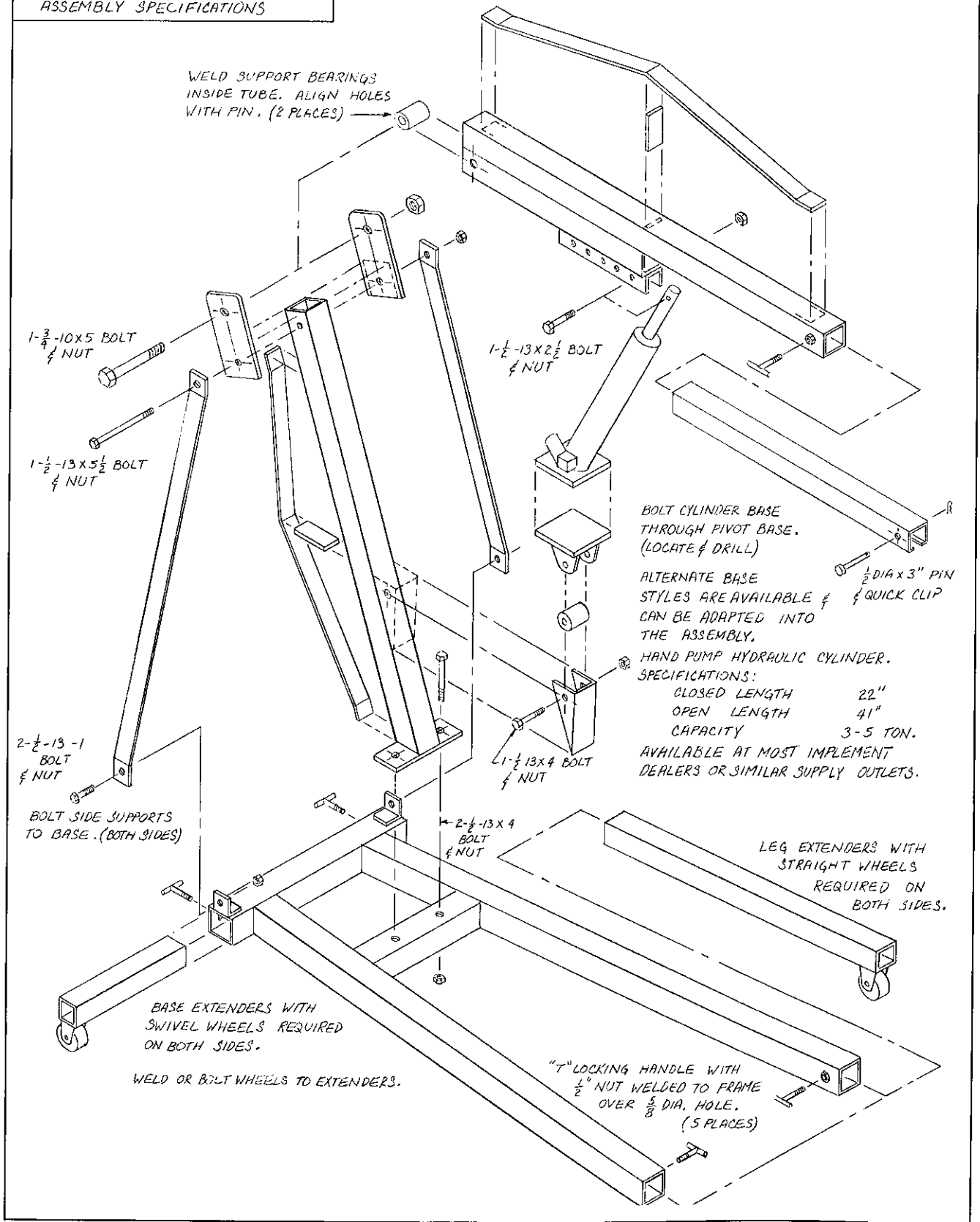
ENGINE STAND			
NO.	QU.	NAME	MATERIAL
1	1	UPRIGHT	3" SQ. X 10 GA. X 30"
2	1	REAR SUPPORT	3" SQ. X 10 GA. X 30"
3	1	CENTER SUPPORT	3" SQ. X 10 GA. X 36"
4	1	FRONT SUPPORT	3" SQ. X 10 GA. X 24"
5	1	BRACE	2 X 1 X 3/16" CHANNEL
6	2	PIVOT BRACE	1/4" PLATE
7	1	COVER PLATE	1/4" PLATE
8	1	PIVOT BEARING	2" I. D. PIPE X 9"
9	1	LOCK NUT	5/8"-18-NF NUT
10	1	PIVOT LOCK	5/8" D. CRS X 9"
11	1	PIVOT AXLE	2" DIA. CRS X 12 1/4"
12	1	PIVOT HANDLE	3/4" DIA. CRS X 24"
13	2	END CAP	1 1/2" DIA. CRS X 2"
14	1	MOUNTING PLATE	1/2" THICK STEEL PLATE
15	4	HEX. NUT	1/2"-13 NC
16	4	FLAT WASHER	1/2" DIA.
17	4	HEX. BOLT	1/2"-13NC X 3"
18A	8	ARM EXTENDERS	3/8" X 1 1/2" X 7" CRS
18B	4	SLOT SPACER	1/2" X 1 1/2" X 1 1/2" STEEL
18C	4	ENGINE MOUNT	1" DIA. X 3" CRS
19	4	WHEELS	3" DIA.



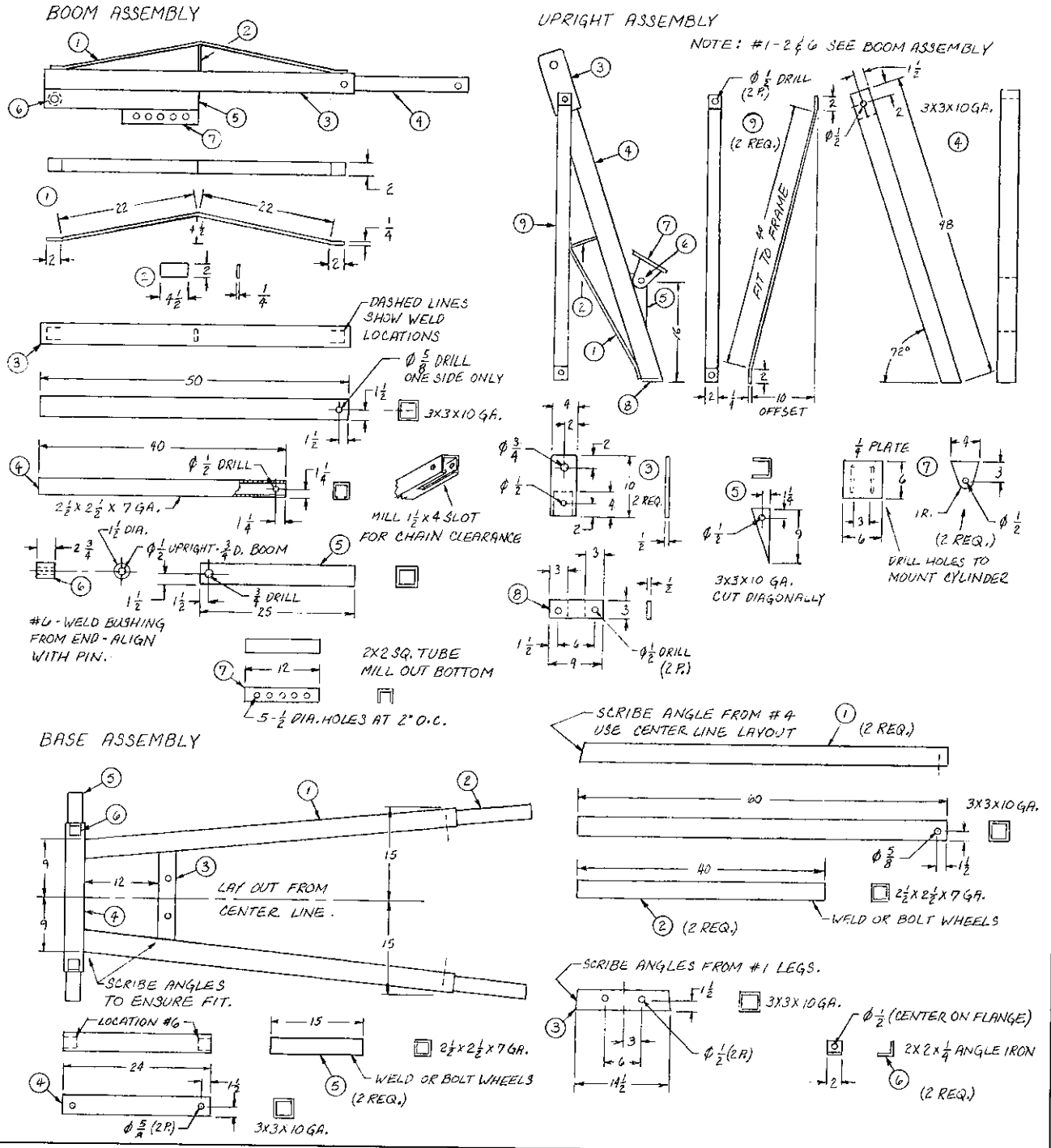
HYDRAULIC ENGINE LIFT

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ASSEMBLY SPECIFICATIONS



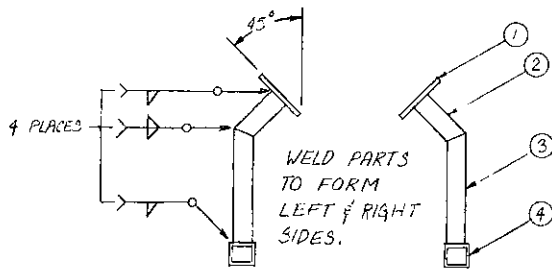
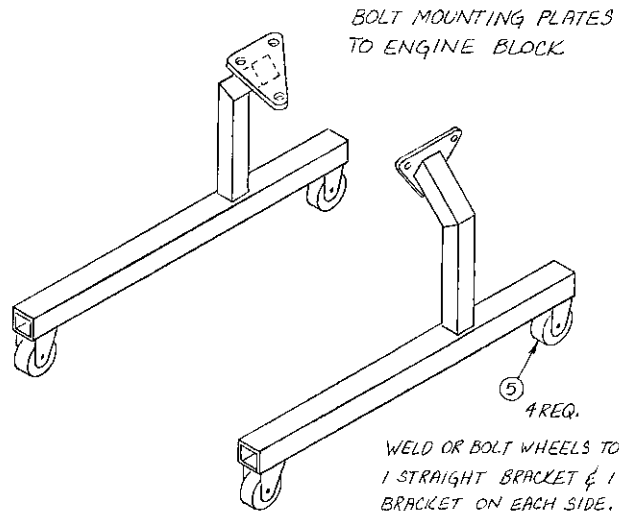
HYDRAULIC ENGINE LIFT				UPRIGHT		BOOM	
<b>BASE</b>				1	1	SUPPORT BOW	$\frac{1}{4}$ " X 2" X 48"
				2	1	SPACER	$\frac{1}{4}$ " X 2" X 4 $\frac{1}{2}$ "
				3	2	PIVOT PLATE	$\frac{1}{2}$ " X 4" X 10"
				4	1	UPRIGHT	3" SQ. X 10 GA. X 48"
				5	1	CYLINDER SUPPORT	3" SQ. X 10 GA. X 9"
				6	1	PIVOT BEARING	1 $\frac{1}{2}$ " DIA. X 2 $\frac{3}{4}$ "
				7	1	CYLINDER BRACKET	$\frac{1}{4}$ " HR. PLATE
				8	1	BASE PLATE	$\frac{1}{2}$ " X 3" X 9"
				9	2	SIDE BRACES	$\frac{1}{4}$ " X 2" X 48"
NO.	QU.	NAME	MATERIAL				
1	2	LEG	3" SQ. X 10 GA. X 60"				
2	2	LEG EXTENSION	2 $\frac{1}{2}$ " SQ. X 7 GA. X 40"				
3	1	UPRIGHT SUPPORT	3" SQ. X 10 GA. X 14 $\frac{1}{2}$ "				
4	1	BACK SUPPORT	3" SQ. X 10 GA. X 24"				
5	2	BACK EXTENSION	2 $\frac{1}{2}$ " SQ. X 7 GA. X 15"				
6	2	SIDE BRACKET	2X2 X $\frac{1}{2}$ " X 2" L IRON				
				PAGE 2 OF 2			
				PART SPECIFICATIONS			



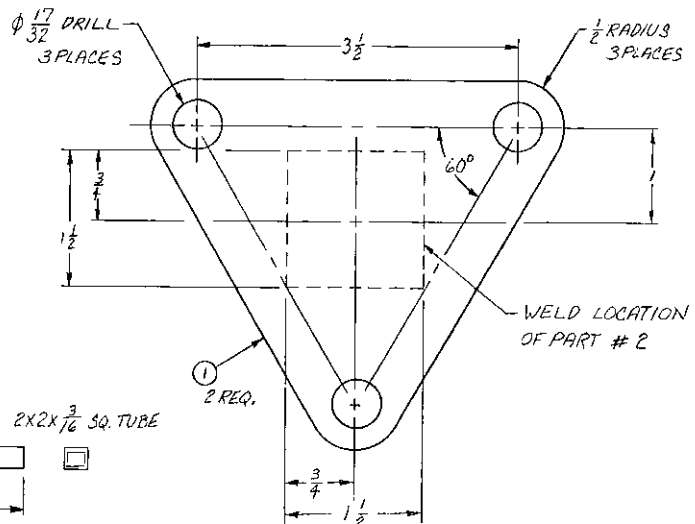
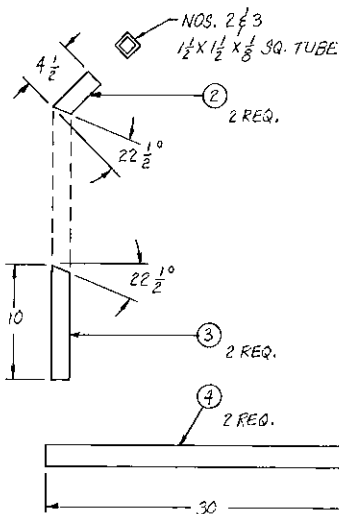
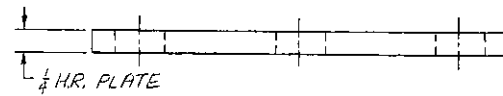
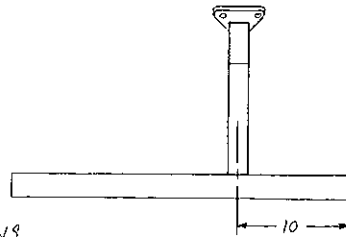


### ENGINE DOLLY

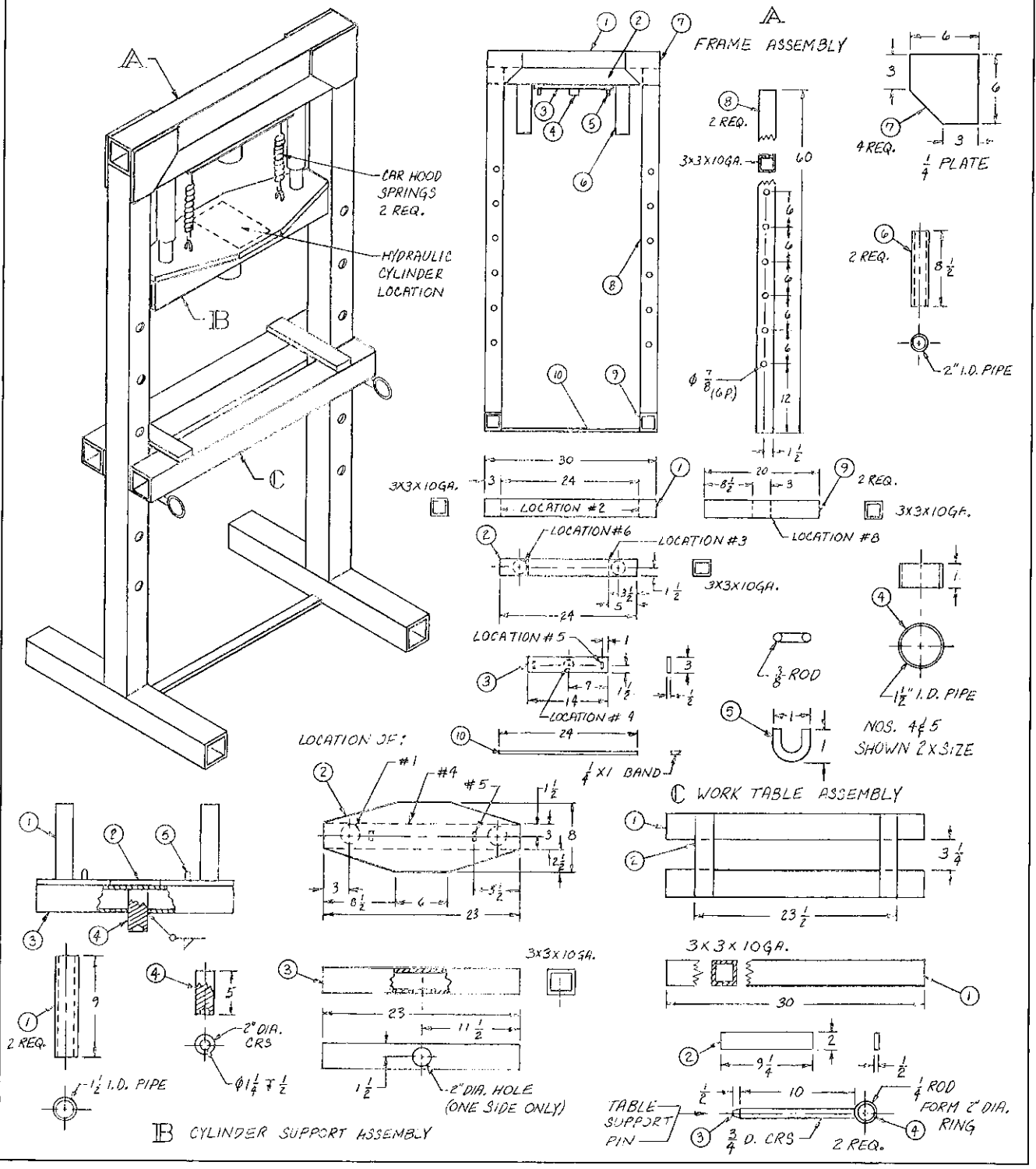
NO.	QU.	NAME	MATERIAL
1	2	MOUNTING PLATE	$\frac{1}{4}$ " H.R. PLATE
2	2	ARM	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ " SQ. X $4\frac{1}{2}$ "
3	2	UPRIGHT	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ " SQ. X 10"
4	2	LEG	$2 \times 2 \times \frac{3}{16}$ " SQ. X 30"
5	4	WHEEL	2" DIA.



ASSEMBLY SPECIFICATIONS



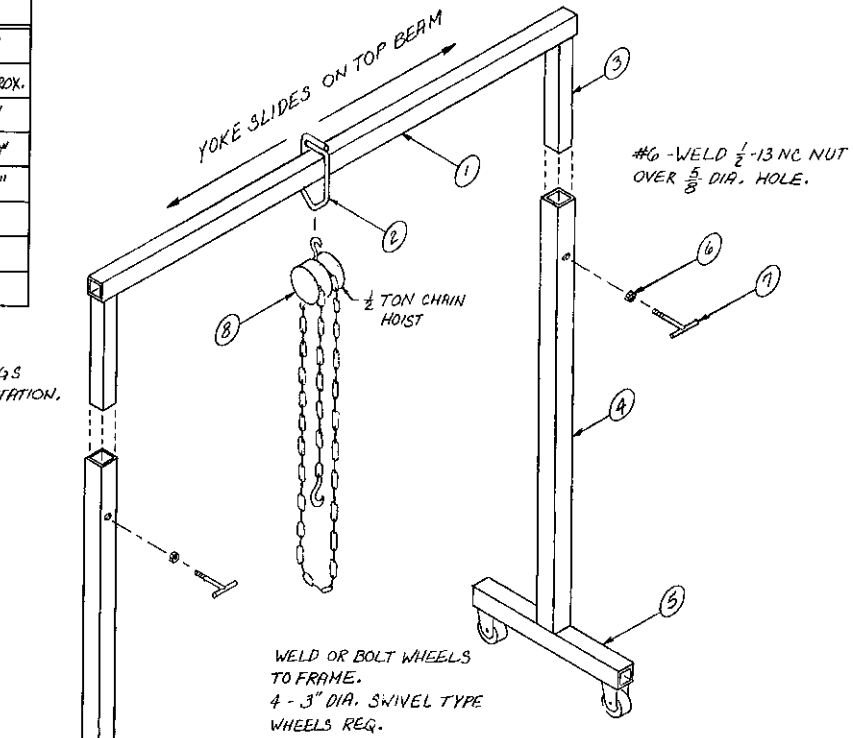
HYDRAULIC BEARING PRESS													
		6	2	UPPER GUIDE	2" I.D. PIPE X 8 1/2"	3	1	YOKE	3" X 3" X 10 GA. X 23"				
A FRAME		7	4	GUSSET	1/4" HR PLATE X 6" X 6"	4	1	PRESS CENTER	2" DIA. CRS X 5"				
		8	2	LEG	3" X 3" X 10 GA. X 60"	5	2	HOOK	3/8" DIA. CRS X 3"				
1	1	TOP HEADER		3" X 3" X 10 GA. X 30"	9	2	BASE	3" X 3" X 10 GA. X 20"	C WORK TABLE				
2	1	BOTTOM HEADER		3" X 3" X 10 GA. X 24"	10	1	BASE SUPPORT	1/4" X 1" BAND X 24"	1	2	TABLE STRINGERS	3" X 3" X 10 GA. X 30"	
3	1	SUPPORT PLATE		1/2" X 3" X 14" HRS	B CYLINDER SUPPORT					2	2	TIE	1/2" X 2" X 9 1/4" HRS
4	1	RAM GUIDE		1 1/2" I.D. PIPE X 1"	1	2	LOWER GUIDE	1 1/2" I.D. PIPE X 9"	3	2	PIN	1/2" DIA. CRS X 10 1/2"	
5	2	HOOK		3/8" DIA. CRS X 3"	2	1	CYLINDER PLATE	1/2" X 8" X 23" HR PLATE	4	2	RING	1/4" DIA. CRS X 6 1/2"	



# LIFTING GANTRY

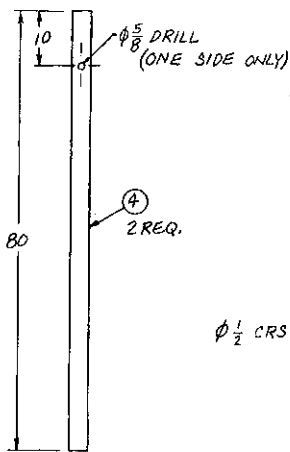
NO.	QU.	NAME	MATERIAL
1	1	TOP BEAM	3" SQ X 10 GA. X 96"
2	1	YOKE	1/2" DIA. CRS X 26" APPROX.
3	2	LEG INSERT	2 1/2" X 2 1/2" X 7 GA. X 20"
4	2	LEG	3" SQ. X 10 GA. X 80"
5	2	LEG SUPPORT	3" SQ. X 10 GA. X 27"
6	2	NUT	1/2" - 13 NC
7	2	"T" LOCK	1/2" DIA. CRS X 7"
8	1	CHAIN HOIST	1/2 TON

TOP BEAM REMOVES FROM LEGS FOR EASY STORAGE & TRANSPORTATION.

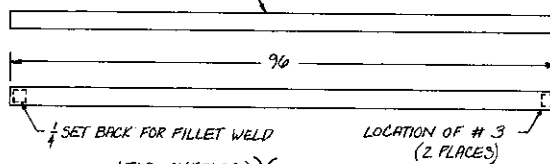


WELD OR BOLT WHEELS TO FRAME.  
4 - 3" DIA. SWIVEL TYPE WHEELS REQ.

3 X 3 X 10 GA.

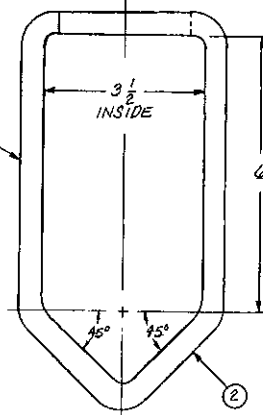


3 X 3 X 10 GA.



LOCATION OF # 3 (2 PLACES)

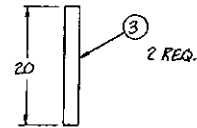
1/2" CRS



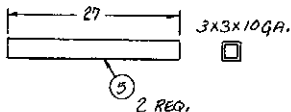
3 1/2" INSIDE

6

WELD OVERLAP



2 1/2 X 2 1/2 X 7 GA.

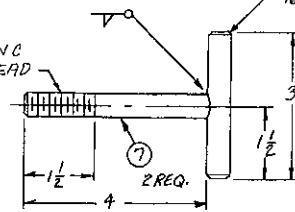


27

3 X 3 X 10 GA.

1/16" X 45° CHAMFER

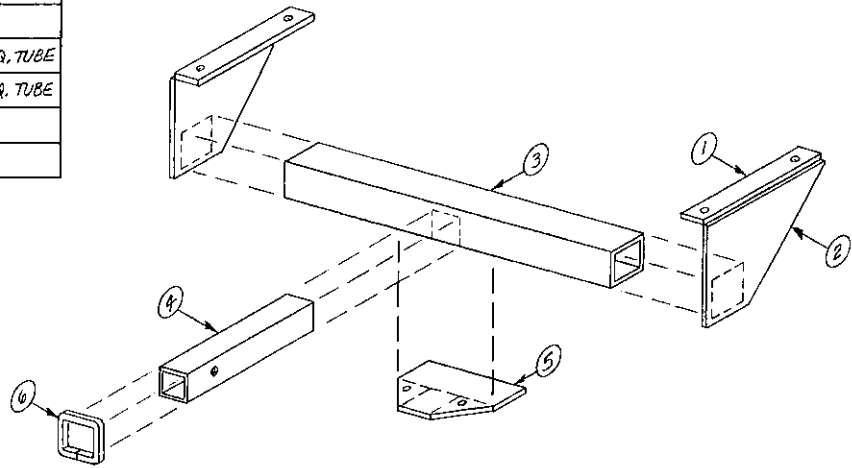
1/2" - 13 NC THREAD



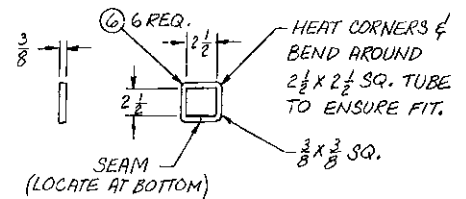
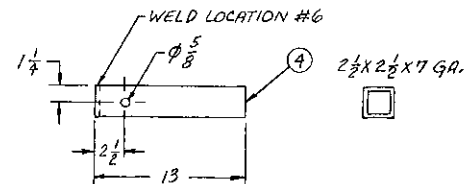
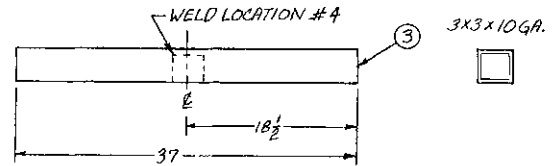
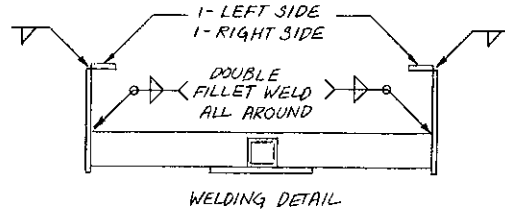
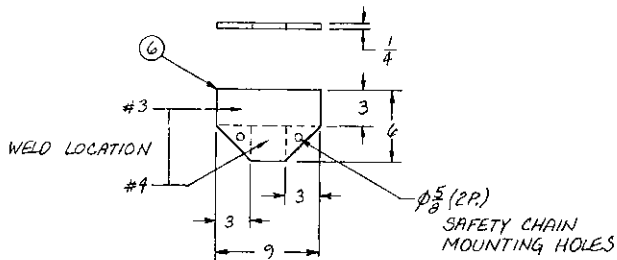
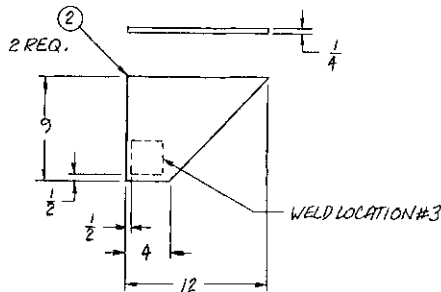
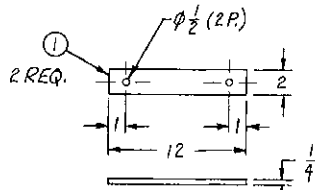
1/2" - 13 NC NUT OVER 5/8 DIA. HOLE.

FRAME-MOUNTED RECEIVER HITCH

NO.	QU.	NAME	MATERIAL
1	2	FRAME BRACKET	$\frac{1}{4}$ X 2 FLAT
2	2	HITCH SIDES	$\frac{1}{4}$ HR PLATE
3	1	CROSS BEAM	3X3X10 GA. SQ. TUBE
4	1	RECEIVER TUBE	$2\frac{1}{2}$ X $2\frac{1}{2}$ X7 GA. SQ. TUBE
5	1	SUPPORT PLATE	$\frac{1}{4}$ HR PLATE
6	6	SUPPORT RING	$\frac{3}{8}$ X $\frac{3}{8}$ SQ.

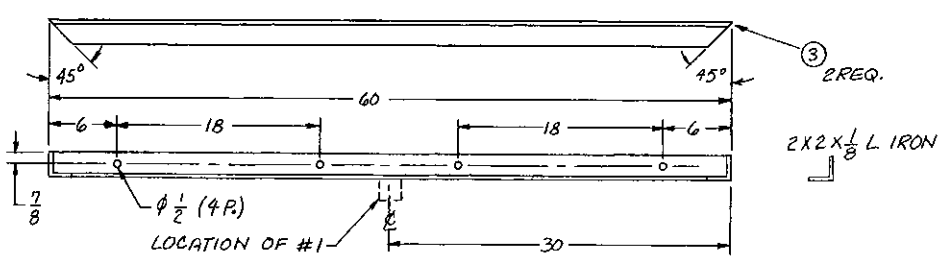
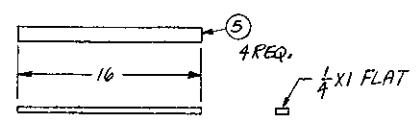
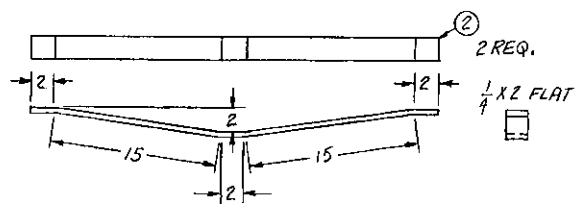
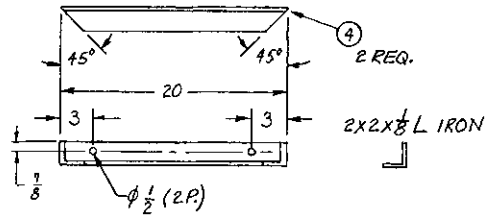
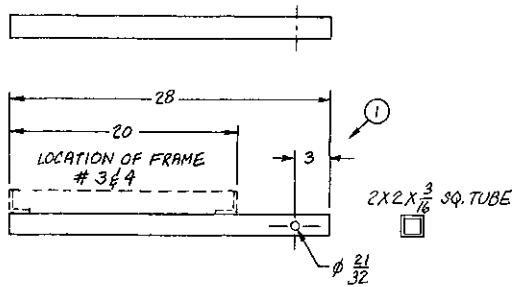
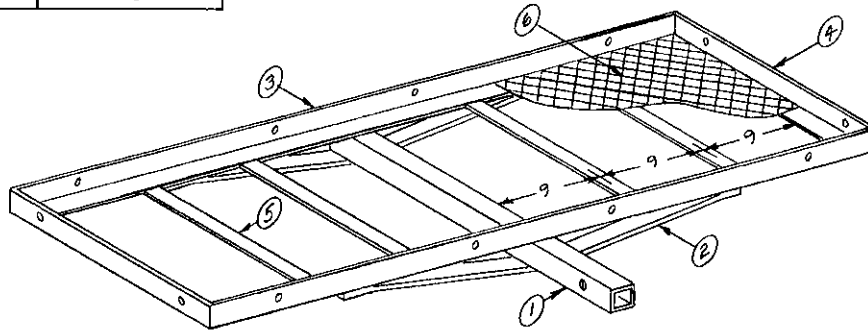


NOTE:  
 FRAME-MOUNTED HITCH SHOWN IS A BASIC DESIGN.  
 DIMENSIONS SHOWN MAY NEED TO BE CHANGED TO  
 FIT VARIOUS VEHICLES. MAKE PATTERNS FIRST  
 AND CHECK FIT TO FRAME. MAKE ADJUSTMENTS  
 AS NECESSARY.



### HITCH-MOUNTED CARRIER

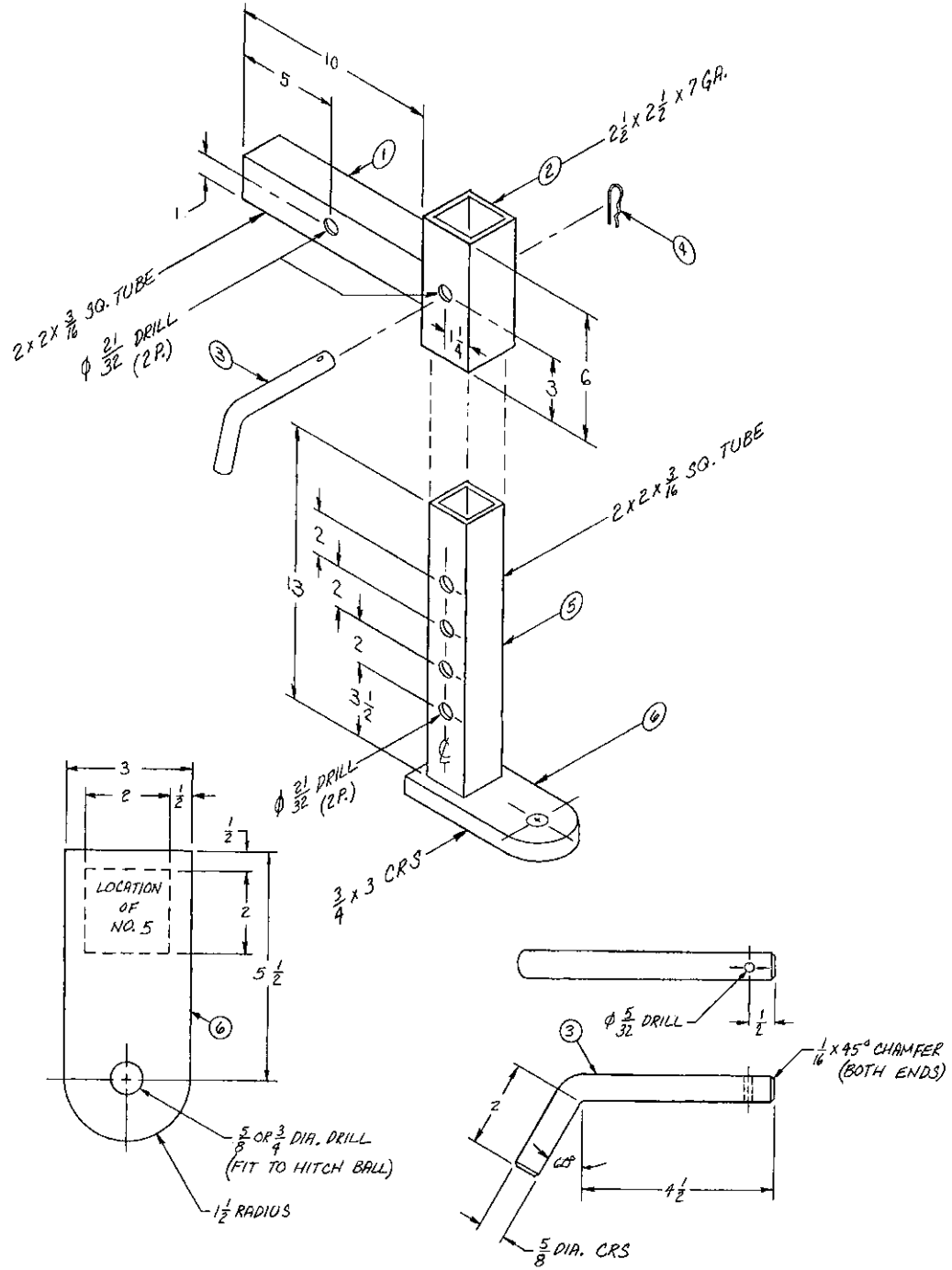
NO.	QU.	NAME	MATERIAL
1	1	HITCH INSERT	2" X 2" X $\frac{3}{16}$ " X 28" SQ.
2	2	BOW	$\frac{1}{4}$ " X 2" X 36" FLAT
3	2	F-B FRAME	2" X 2" X $\frac{1}{8}$ " L IRON X 60"
4	2	L-R FRAME	2" X 2" X $\frac{1}{8}$ " L IRON X 20"
5	4	BOTTOM SUPPORT	$\frac{1}{4}$ " X 1" X 16" FLAT
6	1	BOTTOM	SEE NOTE



⑥ → 16 GAUGE X  $\frac{3}{4}$ " EXPANDED SHEET METAL  
19  $\frac{3}{4}$ " X 59  $\frac{3}{4}$ " TACK WELD TO FRAME MEMBERS #3-4 & 5.

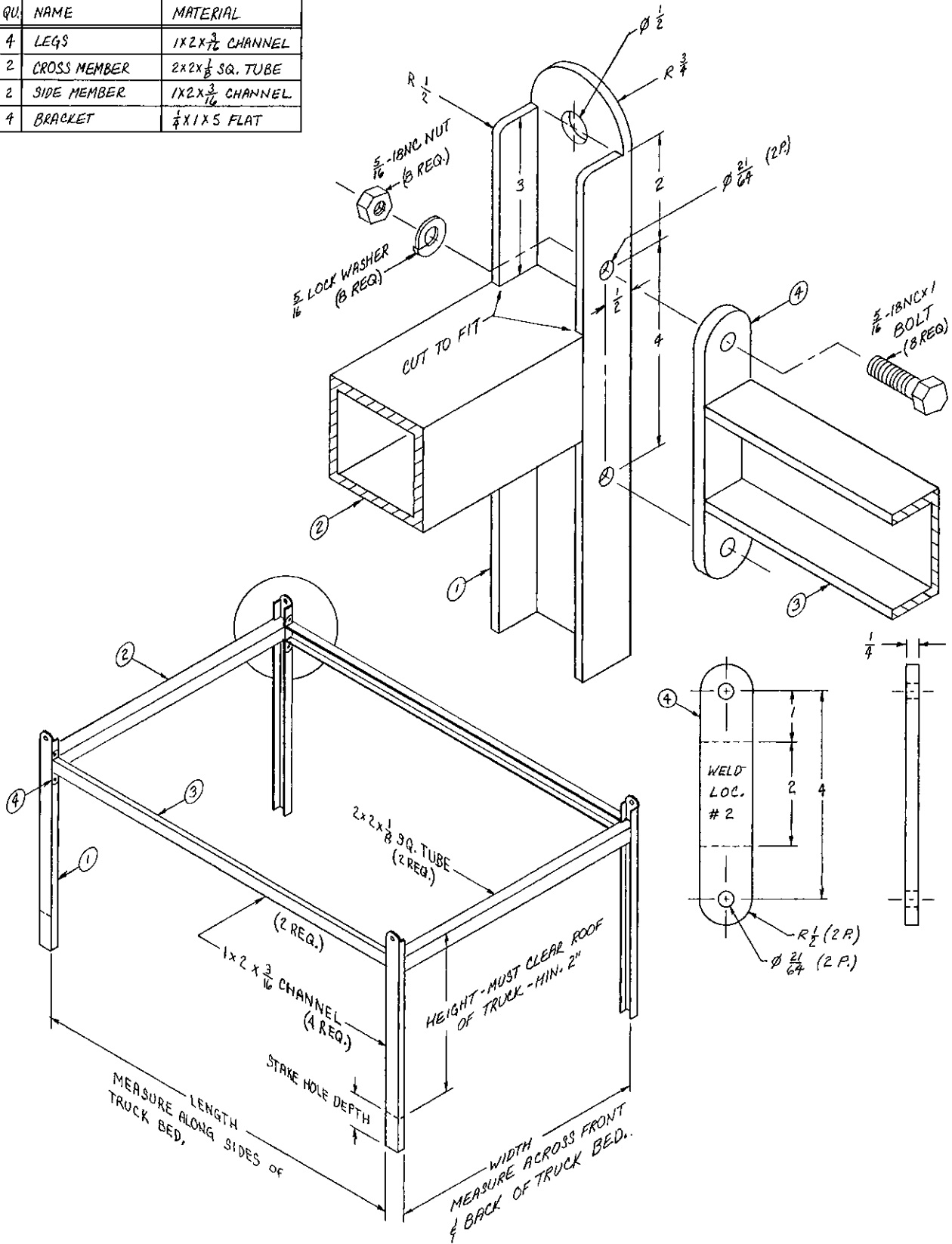
ADJUSTABLE HEIGHT HITCH FOR 2" RECEIVER

NO.	QU.	NAME	MATERIAL
1	1	HITCH MOUNT	2x2x $\frac{3}{16}$ x10"
2	1	VERT. ADJ. BRACKET	2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x7GA. x6"
3	1	HITCH PIN	$\frac{5}{8}$ DIA. CRS x 6 $\frac{1}{2}$ "
4	1	QUICK CLIP	$\frac{1}{8}$ DIA.
5	1	HEIGHT ADJUSTER	2x2x $\frac{3}{16}$ x13"
6	1	HITCH PLATE	$\frac{3}{4}$ x3x7 CRS



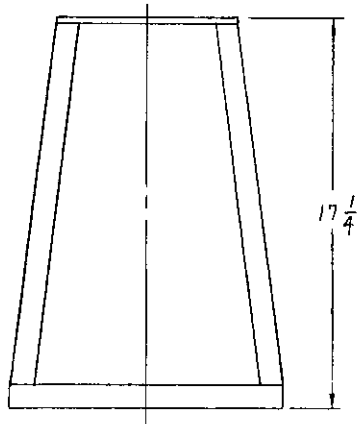
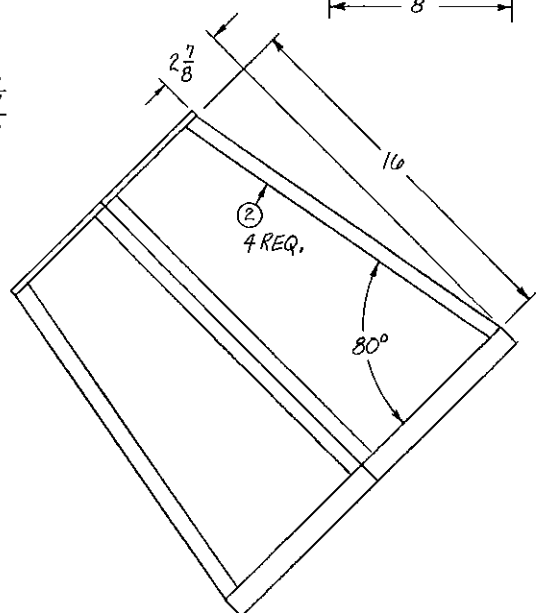
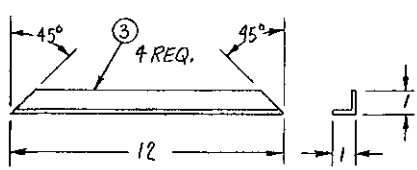
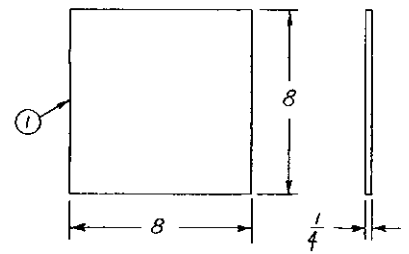
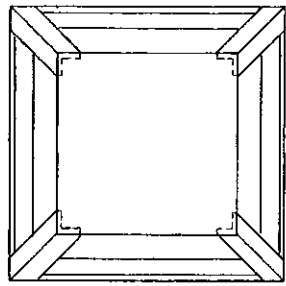
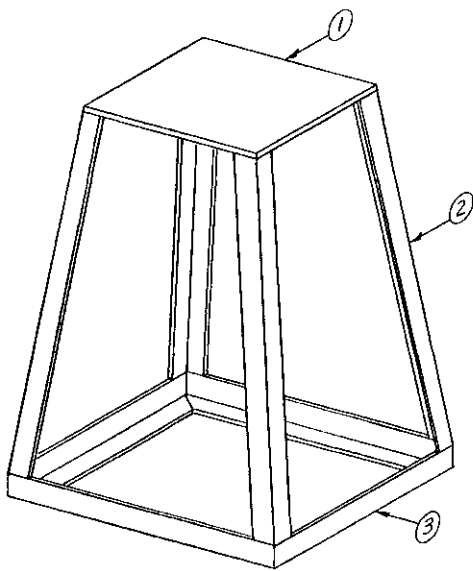
PICKUP TRUCK CARRYING RACK

NO.	QU.	NAME	MATERIAL
1	4	LEGS	1X2X $\frac{3}{16}$ CHANNEL
2	2	CROSS MEMBER	2X2X $\frac{1}{8}$ SQ. TUBE
3	2	SIDE MEMBER	1X2X $\frac{3}{16}$ CHANNEL
4	4	BRACKET	$\frac{3}{4}$ X1X5 FLAT



MOTORCYCLE REPAIR STAND

NO.	QU.	NAME	MATERIAL
1	1	TOP PLATE	$\frac{1}{2}$ " X 8" X 8" PLATE
2	4	LEG	1" X $\frac{3}{16}$ " ANGLE IRON
3	4	BASE	1" X $\frac{3}{16}$ " ANGLE IRON



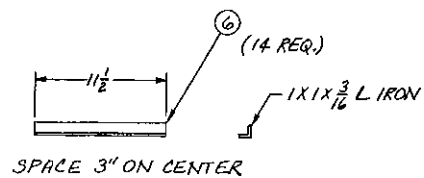
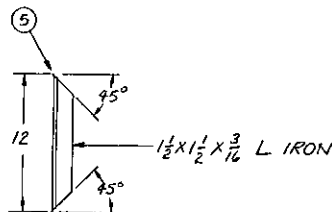
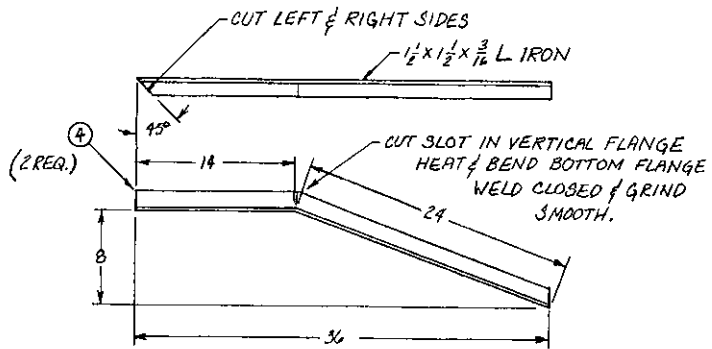
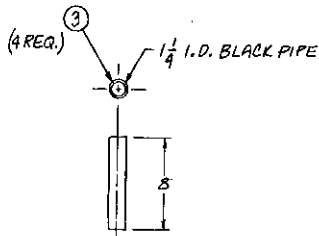
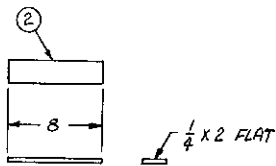
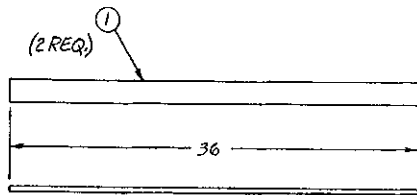
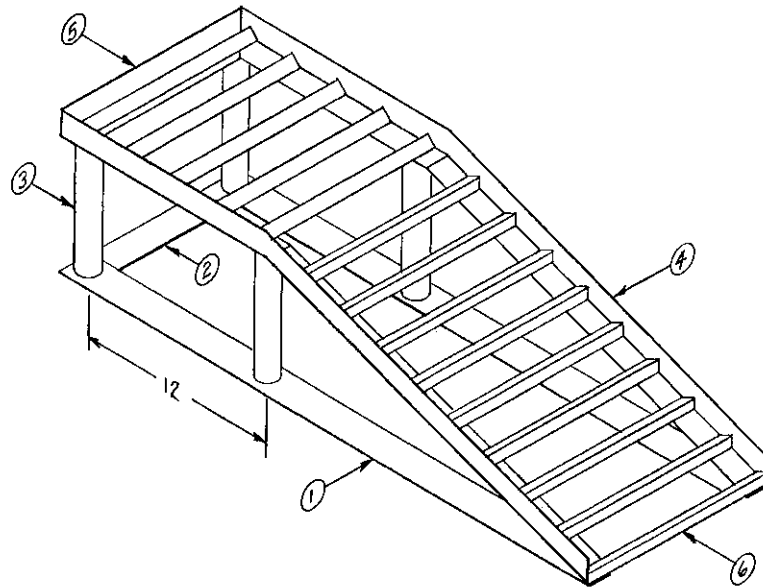
AUXILIARY VIEW



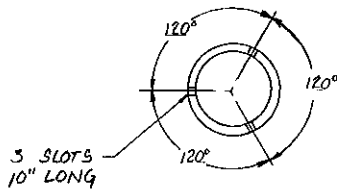
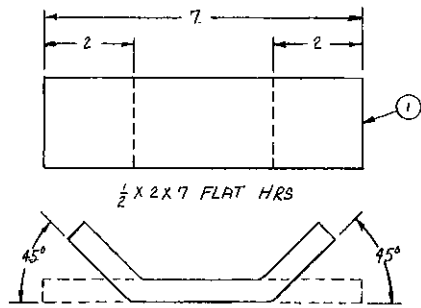
CAR RAMP SET OF 2

NO.	QU.	NAME	MATERIAL
1	2	BASE SIDES	$\frac{1}{4}$ " X 2" X 36" FLAT
2	1	BASE END	$\frac{1}{4}$ " X 2" X 8" FLAT
3	4	LEG	$1\frac{1}{4}$ " I.D. X 8" BLACK PIPE
4	2	RAMP SUPPORT	$1\frac{1}{2}$ " X $1\frac{1}{2}$ " X $\frac{3}{16}$ " X 38" L IRON
5	1	RAMP END	$1\frac{1}{2}$ " X $1\frac{1}{2}$ " X $\frac{3}{16}$ " X 12" L IRON
6	14	RAMP TREAD	$1$ " X $1\frac{3}{16}$ " X $11\frac{1}{2}$ " L IRON

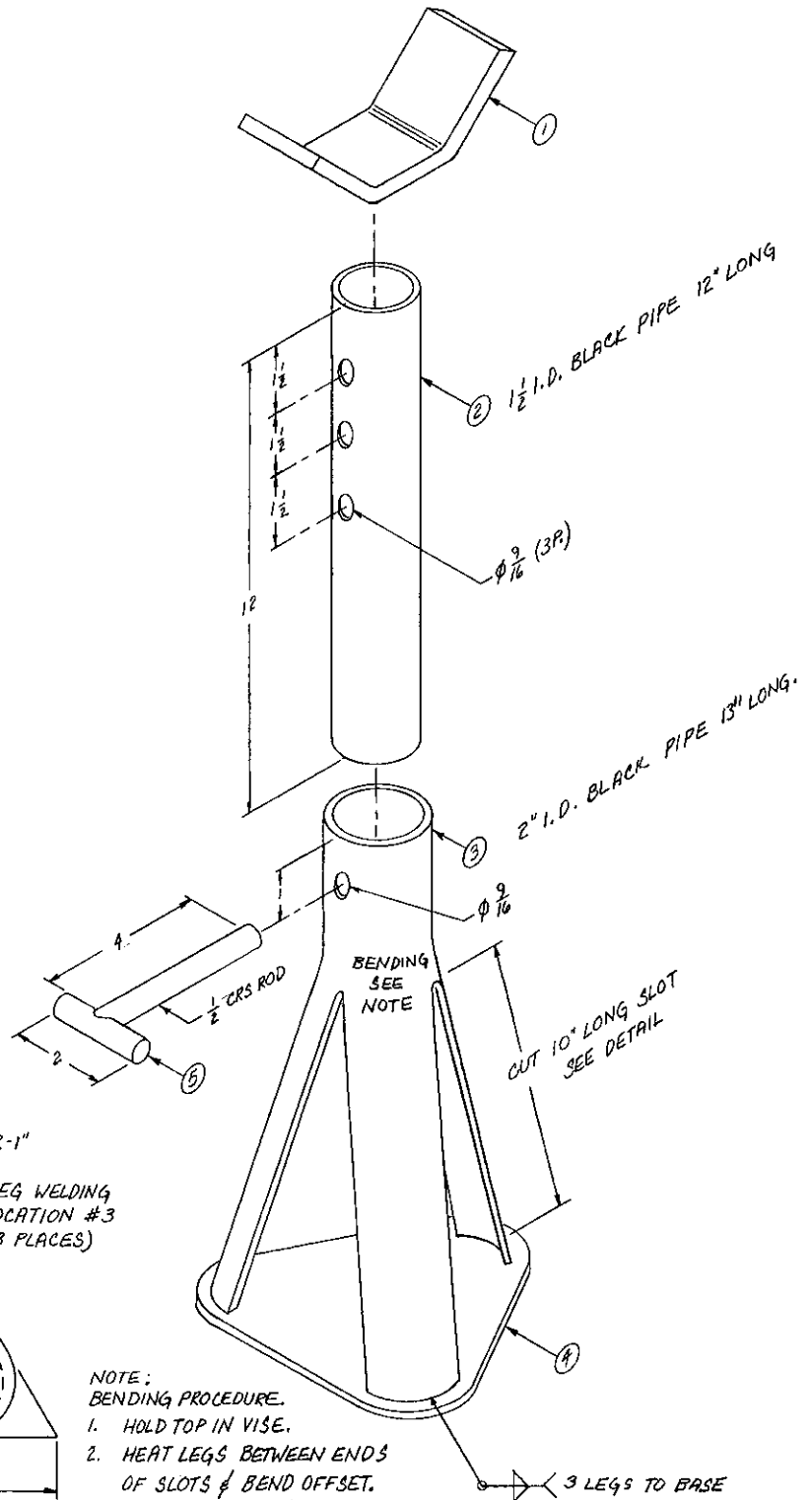
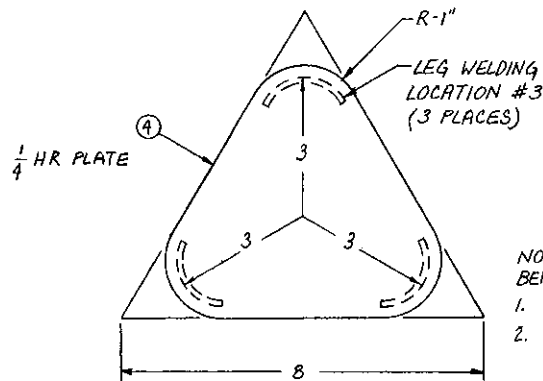
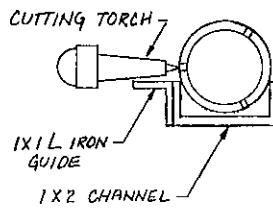
MATERIALS X 2 FOR SET



JACK STAND			
NO.	QU.	NAME	MATERIAL
1	1	TOP SUPPORT	$\frac{1}{2}$ " X 2 X 7 HR FLAT
2	1	HEIGHT ADJUSTER	$1\frac{1}{2}$ " I.D. PIPE - 12"
3	1	TRIPOD	2" I.D. PIPE - 13"
4	1	BASE	$\frac{1}{4}$ " HR PLATE
5	1	ADJUSTING PIN	$\frac{1}{2}$ " CRS ROD



SLOT CUTTING DETAIL



NOTE:

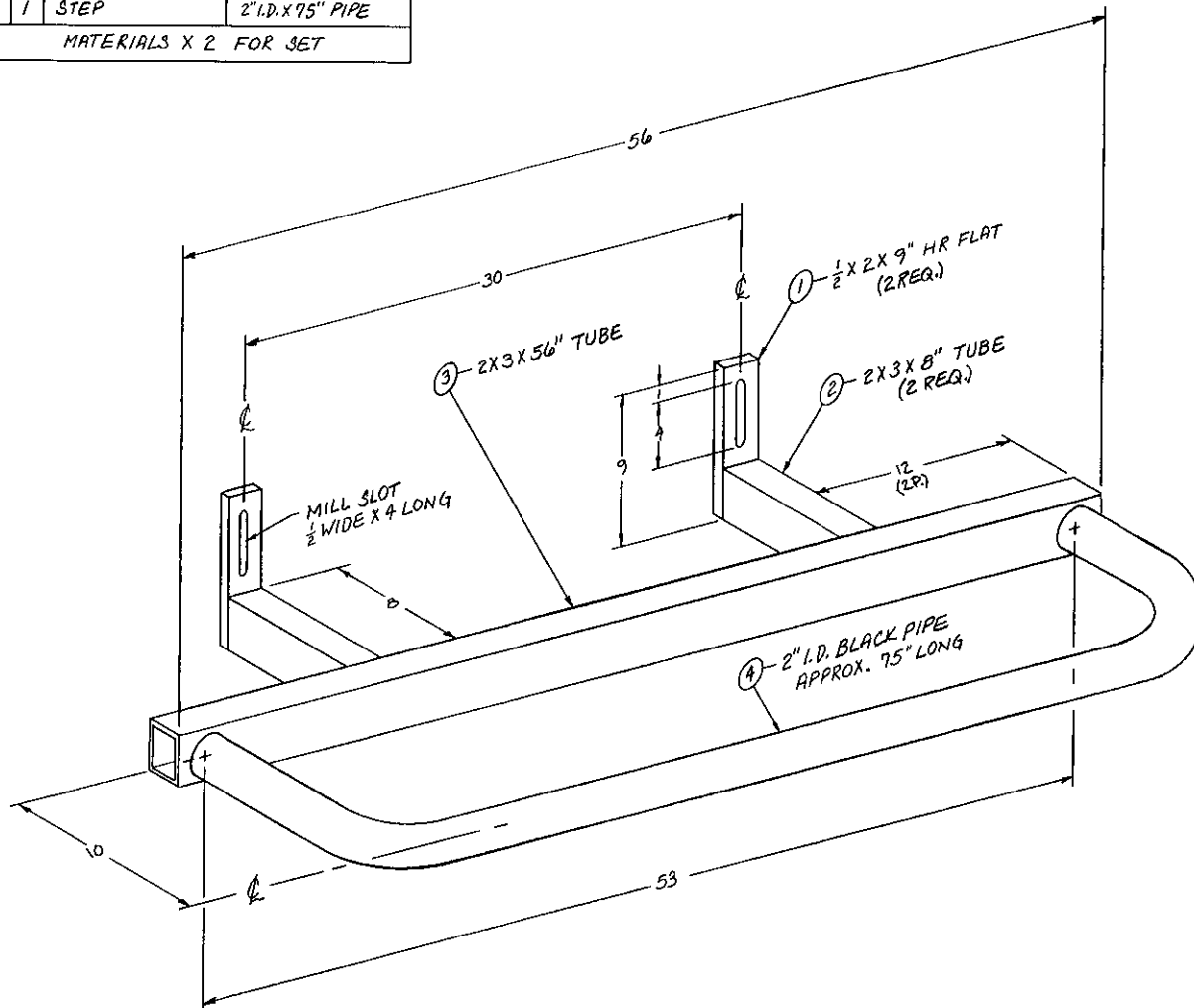
BENDING PROCEDURE.

1. HOLD TOP IN VISE.
2. HEAT LEGS BETWEEN ENDS OF SLOTS & BEND OFFSET.
3. BEND EACH LEG & CHECK FOR UNIFORMITY.
4. GRIND LEG BOTTOMS FLAT TO BASE # 4.

## PICKUP TRUCK DOOR STEP

NO.	QU.	NAME	MATERIAL
1	2	MOUNTING BRKT.	$\frac{1}{2}$ " X 2 X 9" HR FLAT
2	2	EXTENDER	2 X 3 X 8" TUBE
3	1	STEP SUPPORT	2 X 3 X 56" TUBE
4	1	STEP	2" I.D. X 75" PIPE

MATERIALS X 2 FOR SET

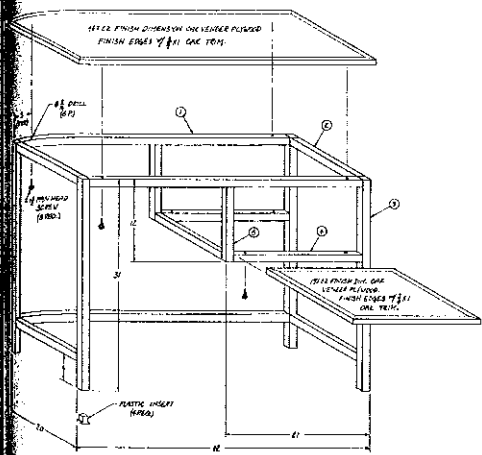


## NOTES:

1. HYDRAULIC PIPE BENDER REQUIRED.
2. LAY OUT BENDS FROM CENTER LINE OF PIPE TO CENTER OF BENDS. AFTER BENDING, CUT END TO EXACT LENGTH.
3. DIMENSIONS SHOWN MAY CHANGE TO FIT VARIOUS TRUCK MAKES.

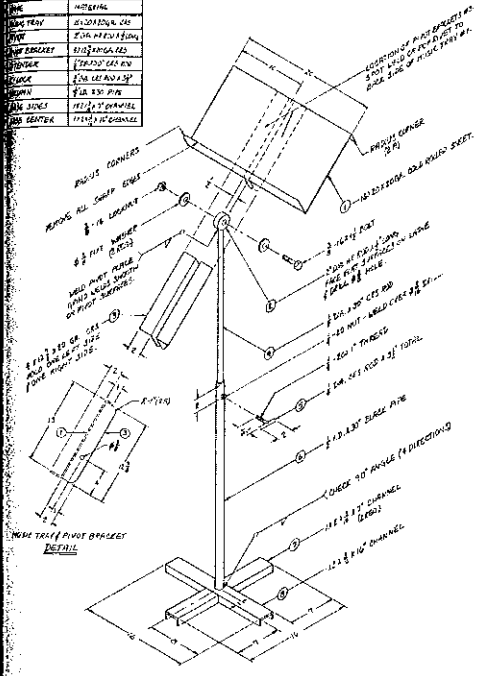
ITEM NO.	
NUMBER	121.50.7.02 E 67"
LENGTH	121.50.7.02 F 18"
WIDTH	121.50.7.02 G 31"
DEPTH	121.50.7.02 H 11"
SUPPORT	121.50.7.02 I 14"
BRACKET	121.50.7.02 J 14"

NOTE:  
SHELF CAN BE LOCATED TO  
LEFT OR RIGHT SIDE.

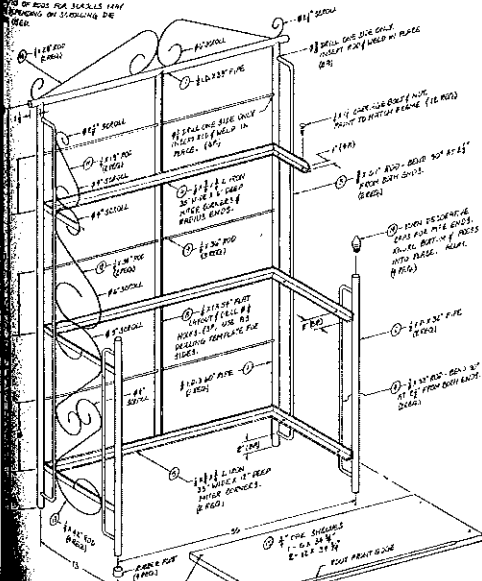


# Home Equipment

MUSIC STAND	
ITEM NO.	121.50.7.03
NUMBER	121.50.7.03 A 67"
LENGTH	121.50.7.03 B 18"
WIDTH	121.50.7.03 C 31"
DEPTH	121.50.7.03 D 11"
SUPPORT	121.50.7.03 E 14"
BRACKET	121.50.7.03 F 14"



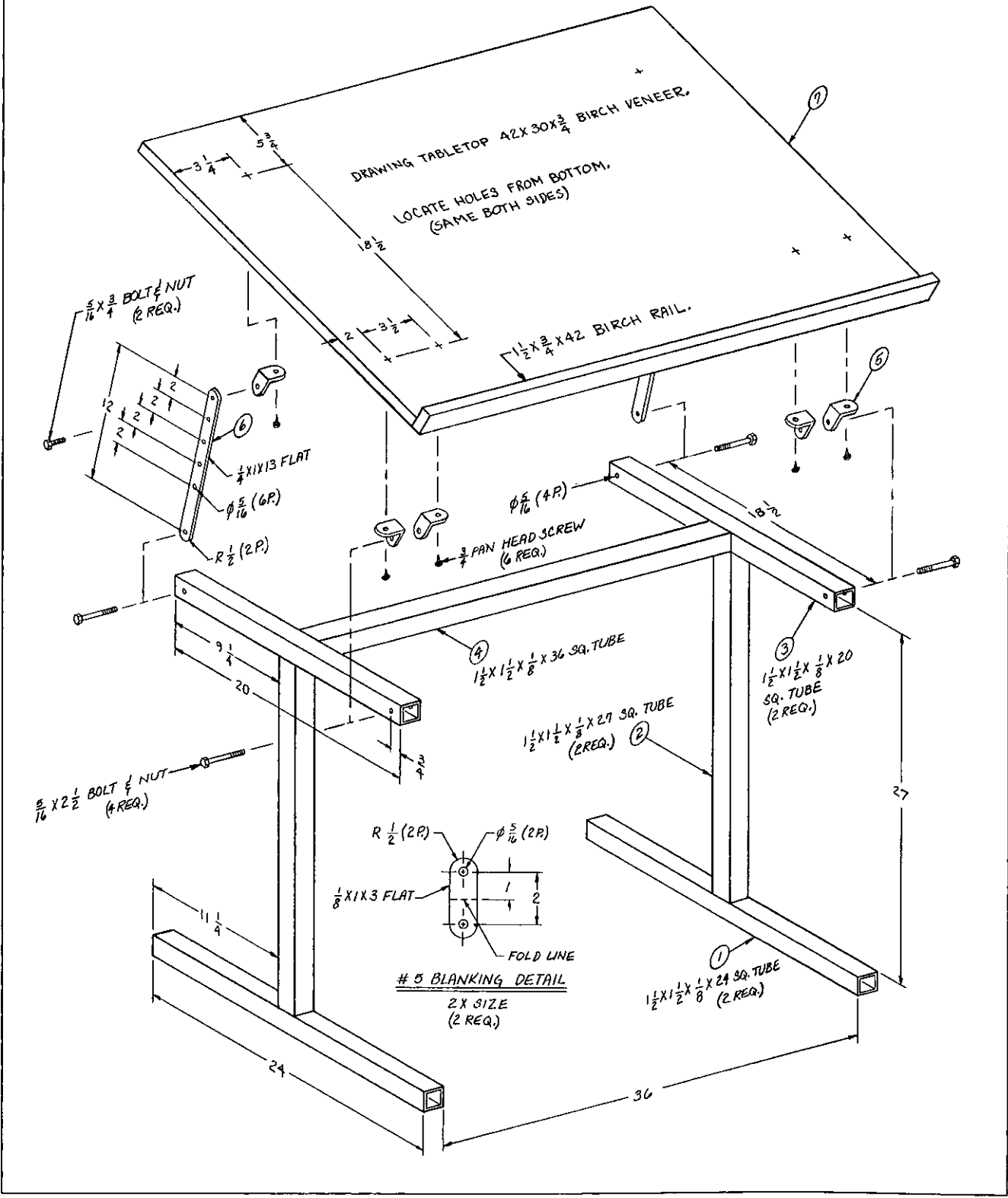
BAKER'S RACK	
ITEM NO.	121.50.7.04
NUMBER	121.50.7.04 A 67"
LENGTH	121.50.7.04 B 18"
WIDTH	121.50.7.04 C 31"
DEPTH	121.50.7.04 D 11"
SUPPORT	121.50.7.04 E 14"
BRACKET	121.50.7.04 F 14"



- Drafting Table ..... 76
- Computer Table ..... 77
- Guitar Stand ..... 78
- Music Stand ..... 79
- Electric Piano Stand ..... 80
- Christmas Tree Stand ..... 81
- Can Crusher ..... 82
- Quilt Rack ..... 83
- Baker's Rack ..... 84
- Corner Baker's Rack ..... 85
- Four-Shelf Plant Stand ..... 86
- Log Storage Rack ..... 87

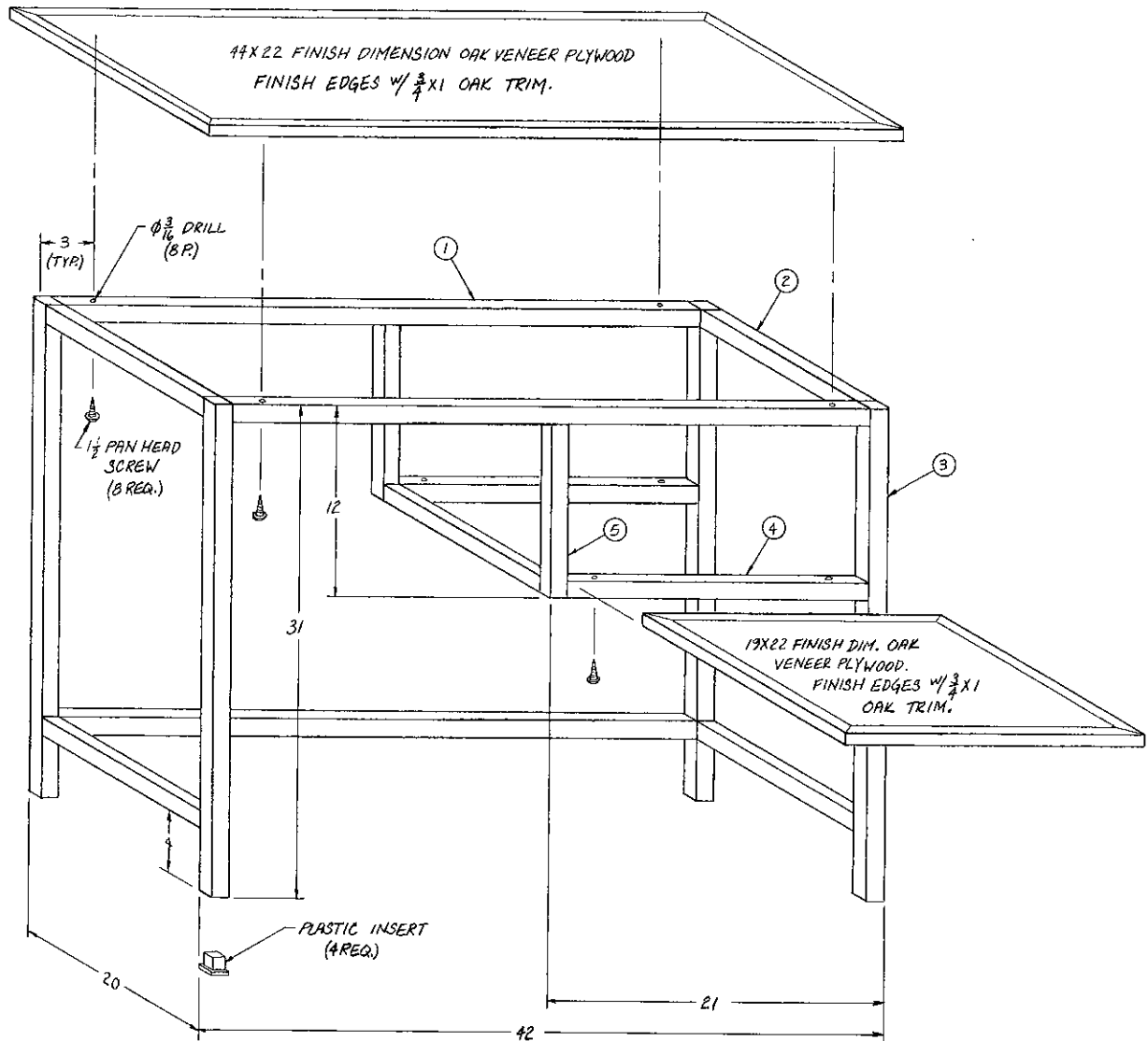
DRAFTING TABLE

NO.	QTY.	NAME	MATERIAL	4	1	SPACER	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8} \times 36"$
1	2	BASE	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8} \times 24"$	5	6	PIVOT	$\frac{1}{8} \times 1 \times 3$ FLAT
2	2	LEG	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8} \times 27"$	6	1	ADJUSTER ARM	$\frac{1}{4} \times 1 \times 13$ FLAT
3	2	TABLE SUPPORT	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8} \times 20"$	7	1	TABLE	$42 \times 30 \times \frac{3}{4}$ PLYWOOD

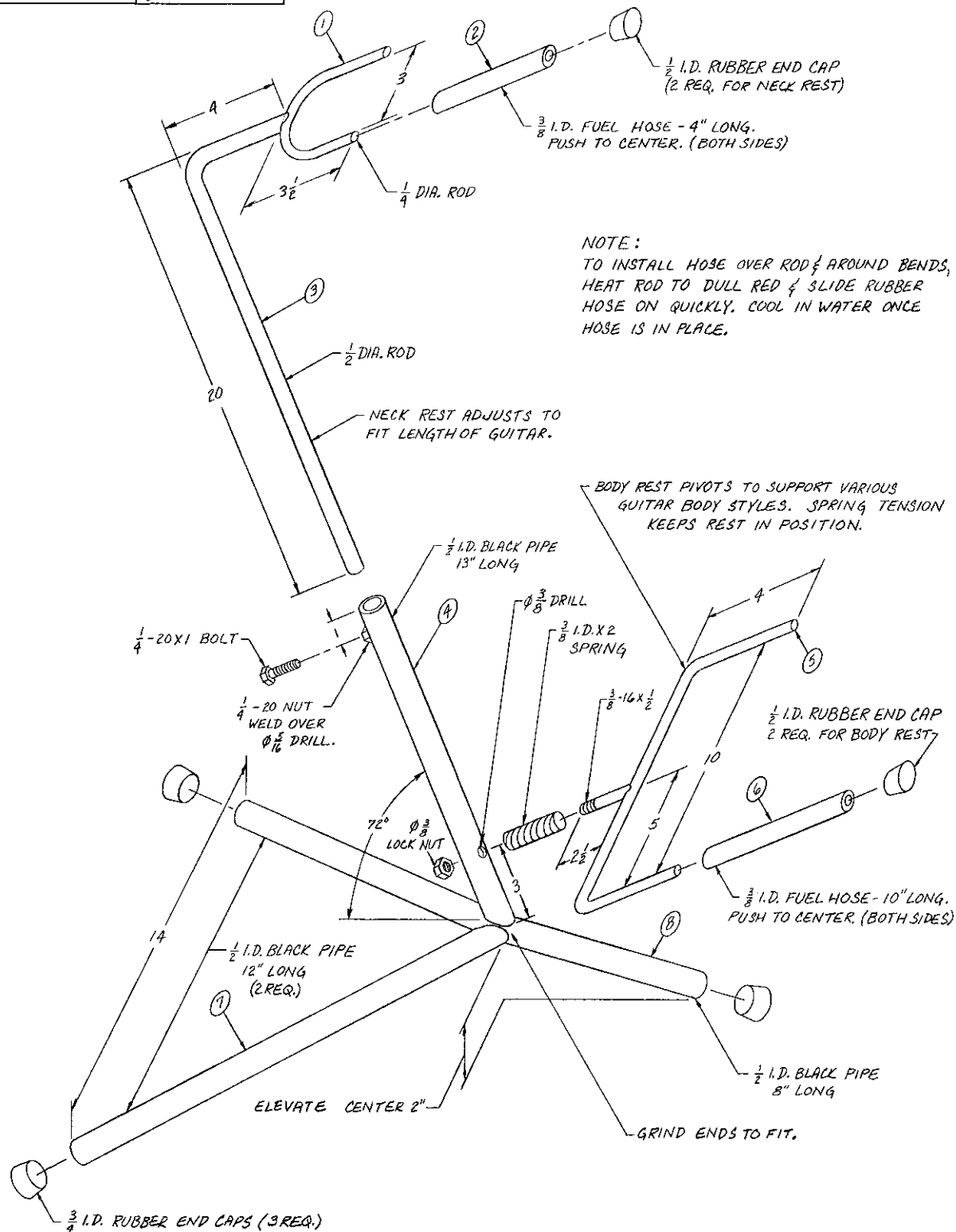


COMPUTER TABLE			
NO.	QU.	NAME	MATERIAL
1	3	WIDTH MEMBER	1X1 SQ. TUBE X 40"
2	5	CROSS MEMBER	1X1 SQ. TUBE X 18"
3	4	LEG	1X1 SQ. TUBE X 31"
4	2	SHELF SUPPORT	1X1 SQ. TUBE X 19"
5	2	SHELF HANGER	1X1 SQ. TUBE X 12"

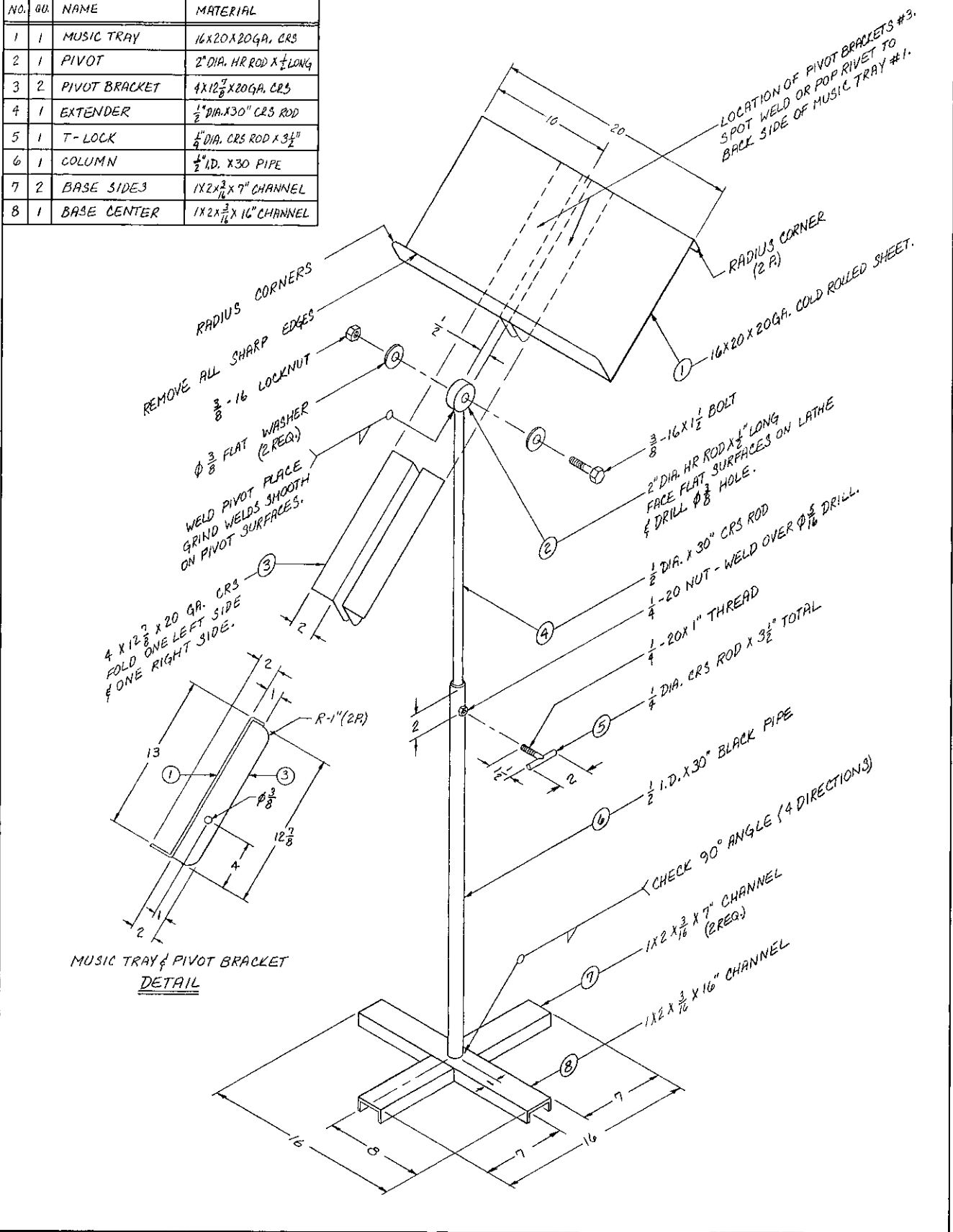
NOTE:  
SHELF CAN BE LOCATED TO  
LEFT OR RIGHT SIDE.



GUITAR STAND			
NO.	QU.	NAME	MATERIAL
4	1	UPRIGHT	$\frac{1}{2}$ " I.D. X 13" PIPE
5	1	BODY REST	$\frac{1}{4}$ " DIA. X 21" HRS
6	2	BODY GUARD	$\frac{3}{8}$ " I.D. X 10" FUEL HOSE
1	1	NECK REST	$\frac{1}{4}$ " DIA. X 10" HRS
2	2	NECK GUARD	$\frac{3}{8}$ " I.D. X 4" FUEL HOSE
3	1	NECK SUPPORT	$\frac{1}{2}$ " DIA. X 24" HRS
7	2	REAR LEG	$\frac{1}{2}$ " I.D. X 12" PIPE
8	1	FRONT LEG	$\frac{1}{2}$ " I.D. X 8" PIPE



MUSIC STAND			
NO.	QU.	NAME	MATERIAL
1	1	MUSIC TRAY	16X20X20GA. CRS
2	1	PIVOT	2" DIA. HR ROD X $\frac{1}{2}$ " LONG
3	2	PIVOT BRACKET	4X12 $\frac{7}{8}$ X20GA. CRS
4	1	EXTENDER	$\frac{1}{2}$ " DIA. X30" CRS ROD
5	1	T-LOCK	$\frac{1}{4}$ " DIA. CRS ROD X 3 $\frac{1}{2}$ "
6	1	COLUMN	$\frac{1}{2}$ " I.D. X30 PIPE
7	2	BASE SIDES	1X2X $\frac{3}{16}$ X7" CHANNEL
8	1	BASE CENTER	1X2X $\frac{3}{16}$ X16" CHANNEL





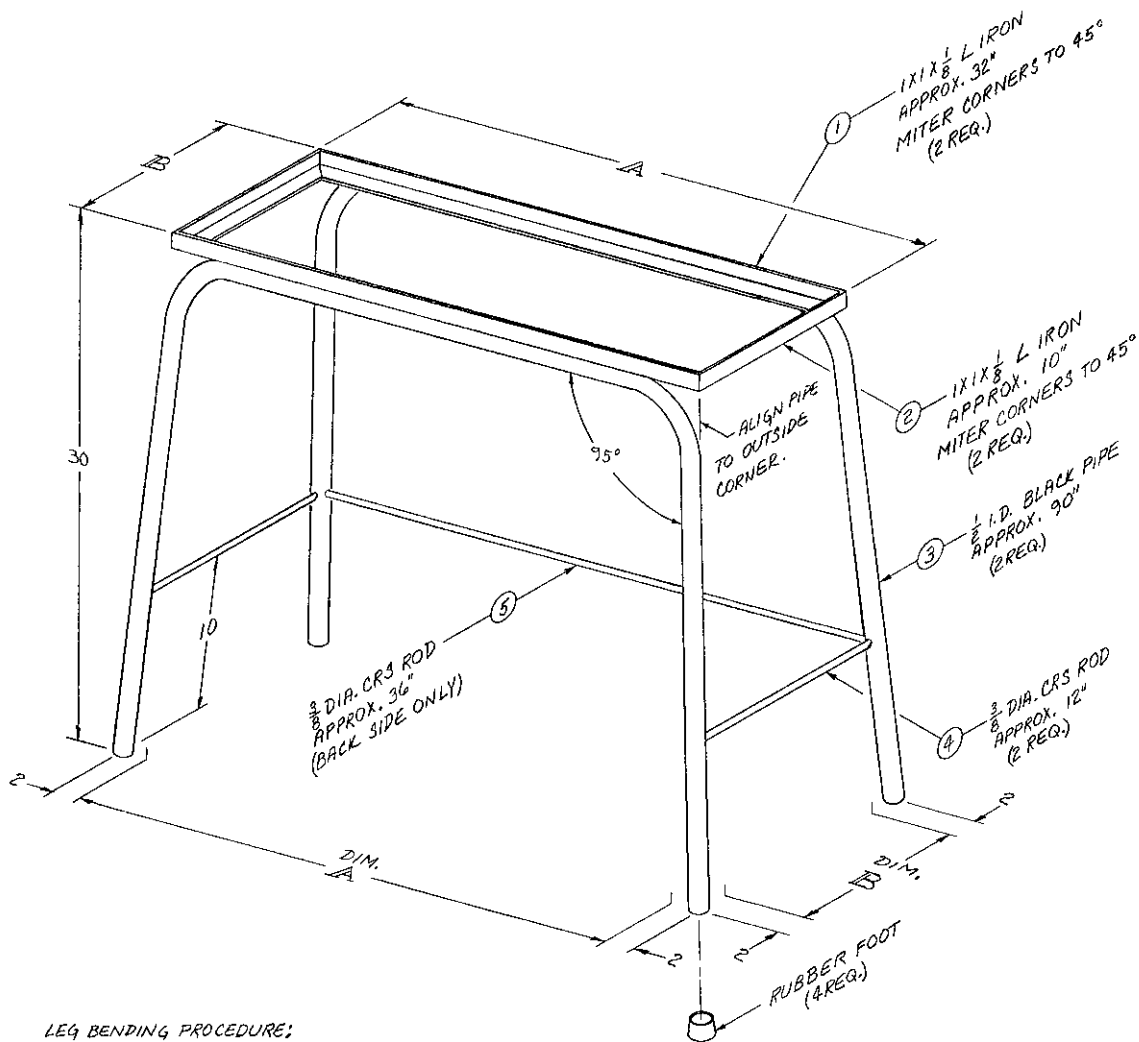
## ELECTRIC PIANO STAND

NO.	QU.	NAME	MATERIAL
1	2	FRAME SIDE	1X1X $\frac{1}{8}$ L IRON T.B.D.
2	2	FRAME END	1X1X $\frac{1}{8}$ L IRON T.B.D.
3	2	LEG	$\frac{1}{2}$ I.D. PIPE T.B.D.
4	2	LEG SUPPORT SIDE	$\frac{3}{8}$ DIA. CRS T.B.D.
5	1	LEG SUPPORT BACK	$\frac{3}{8}$ DIA. CRS T.B.D.

FIT TOP FRAME TO BASE OF ELECTRIC PIANO.

A - LENGTH OF BASE

B - WIDTH OF BASE

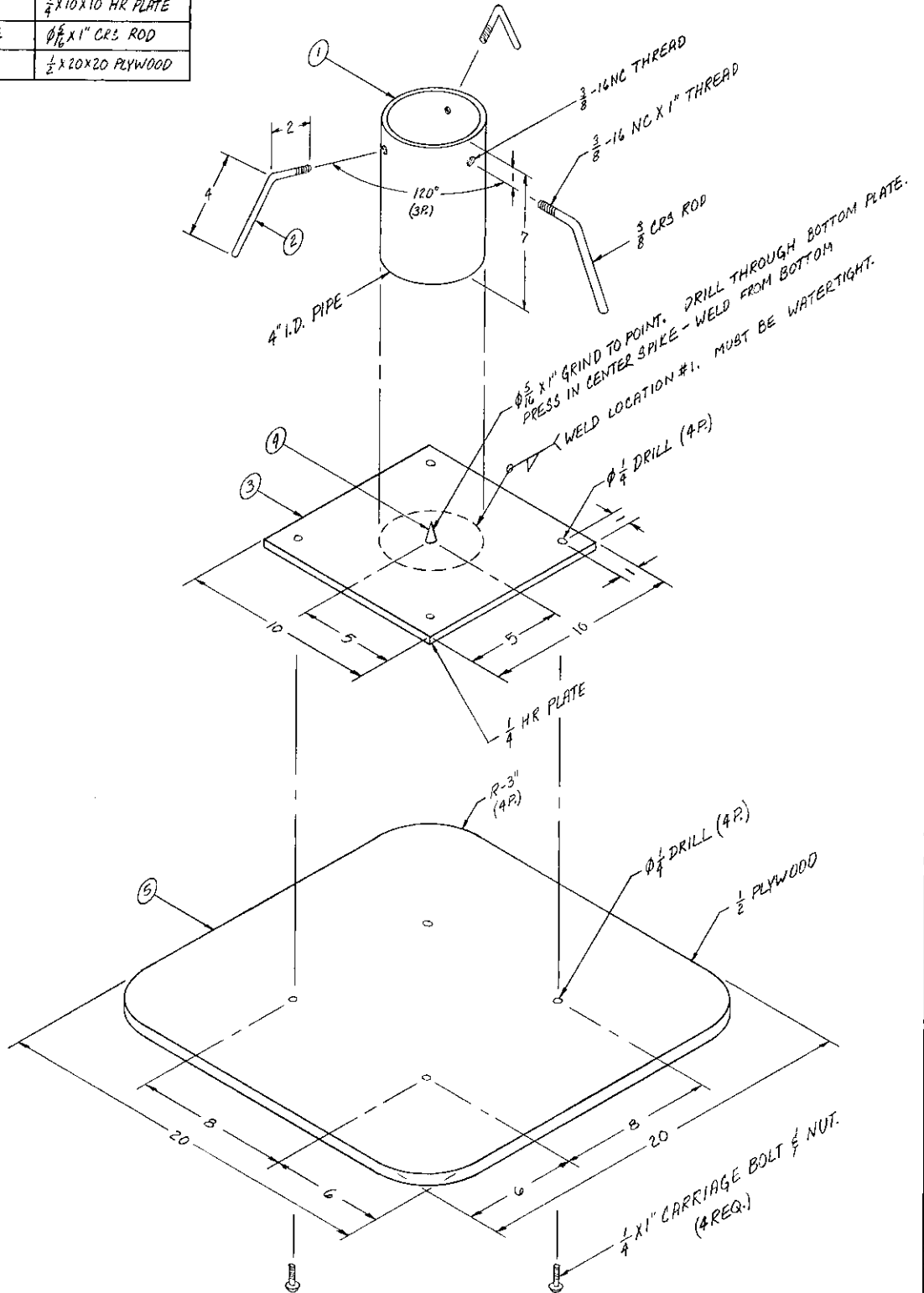


## LEG BENDING PROCEDURE:

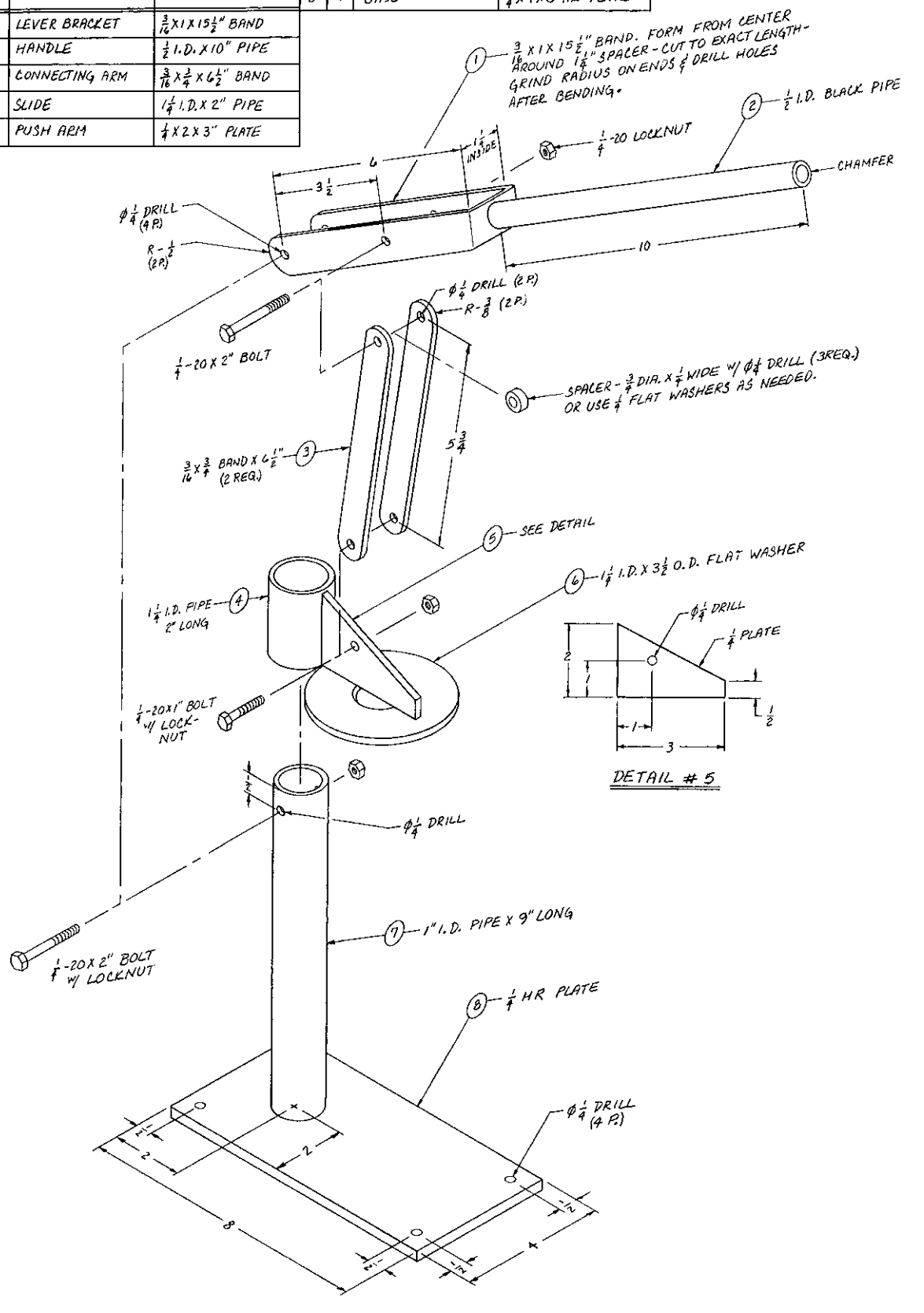
1. CUT STOCK WITH SEVERAL INCHES EXTRA FOR ADJUSTMENTS & LEVELING.
2. LAY OUT BENDS FROM CENTER POINT OF TOP SECTION TO CENTER OF BENDS.
3. MAKE BENDS & CHECK ANGLES.
4. LAY OUT LENGTH OF LEGS FROM TOP SURFACE & CUT TO LENGTH.

CHRISTMAS TREE STAND

NO.	QU.	NAME	MATERIAL
1	1	STAND	4" I.D. X 7" PIPE
2	3	ADJUSTING SCREW	$\frac{3}{8}$ " X 6" CRS ROD
3	1	BOTTOM	$\frac{1}{4}$ " X 10 X 10 HR PLATE
4	1	CENTER SPIKE	$\phi \frac{5}{16}$ " X 1" CRS ROD
5	1	BASE	$\frac{1}{2}$ " X 20 X 20 PLYWOOD



CAN CRUSHER (BENCH TOP)			
6	1	PLATEN	1 1/4" I.D. X 3 1/2" O.D. WASHER
7	1	COLUMN	1" I.D. X 9" PIPE
8	1	BASE	1/4" X 4 X 8" HR. PLATE
NO.	QU.	NAME	MATERIAL
1	1	LEVER BRACKET	3/16" X 1 X 15 1/2" BAND
2	1	HANDLE	1/2" I.D. X 10" PIPE
3	2	CONNECTING ARM	3/16" X 3/8" X 6 1/2" BAND
4	1	SLIDE	1 1/4" I.D. X 2" PIPE
5	1	PUSH ARM	1/4" X 2 X 3" PLATE

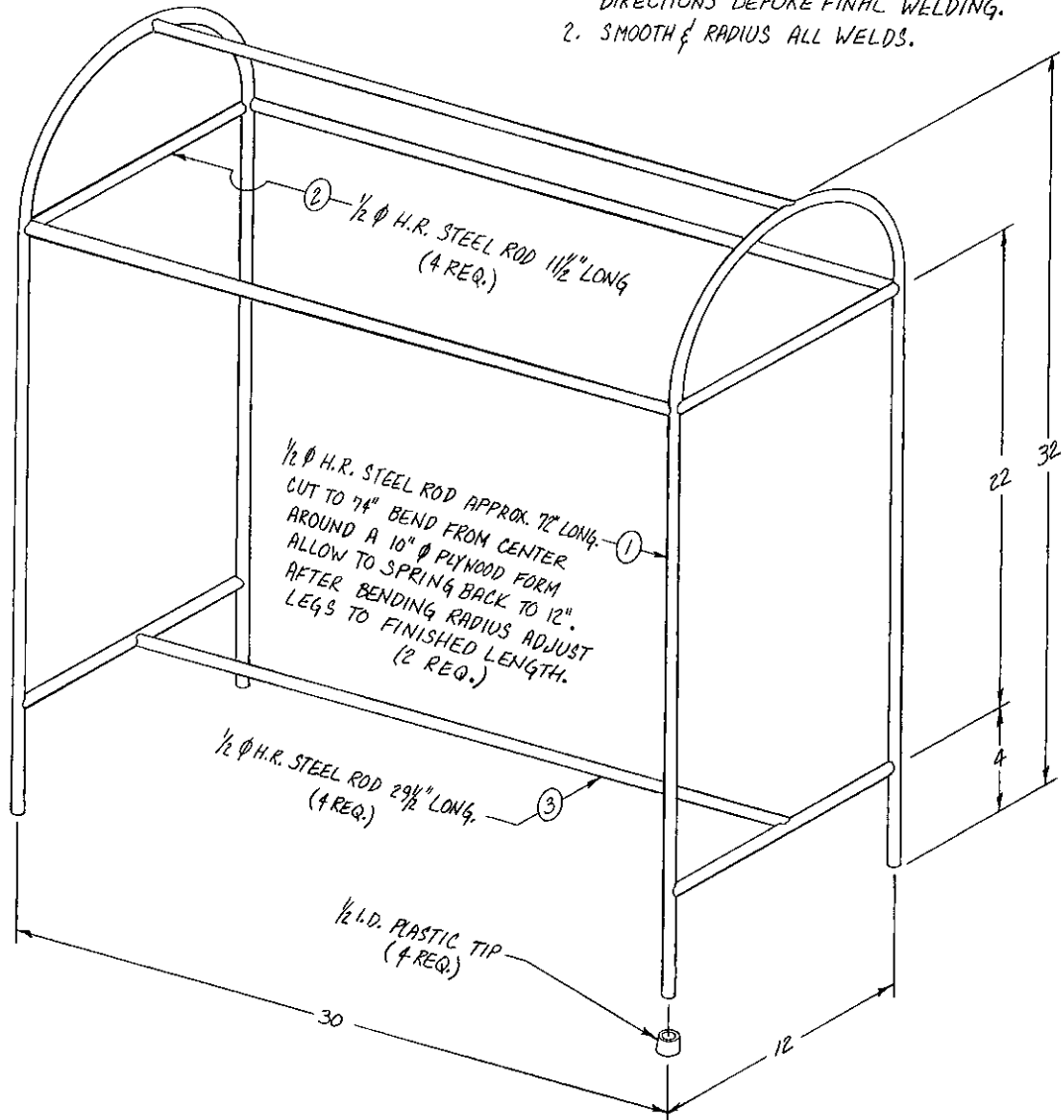


### QUILT RACK

NO.	QU.	NAME	MATERIAL
1	2	FRAME END	$\frac{1}{2}$ " $\phi$ H.R. ROD 74"
2	4	CROSSBAR	$\frac{1}{2}$ " $\phi$ H.R. ROD 11 $\frac{1}{2}$ "
3	4	STRINGER	$\frac{1}{2}$ " $\phi$ H.R. ROD 29 $\frac{1}{2}$ "

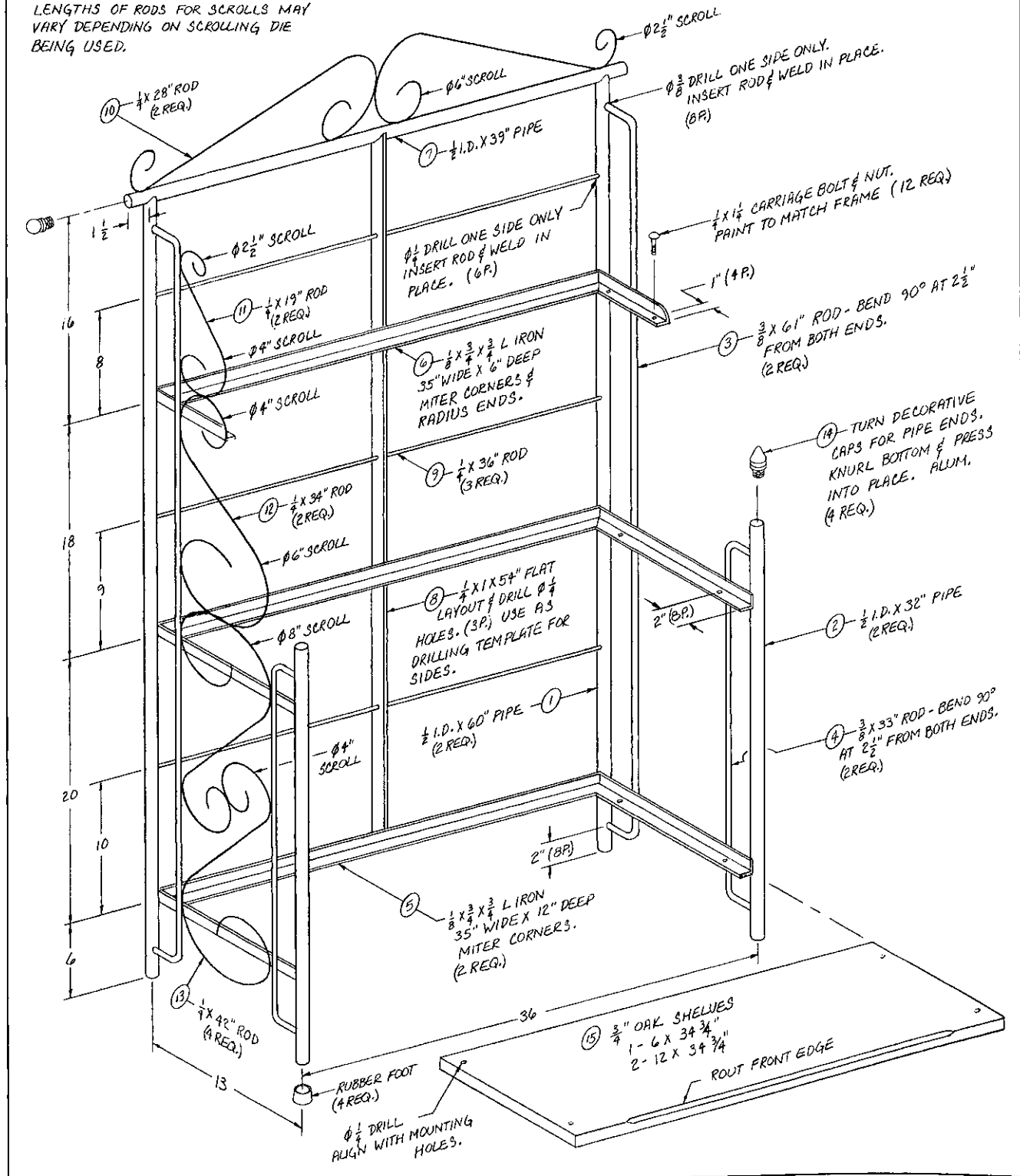
#### NOTES:

1. KEEP ALL MEMBERS PARALLEL & SQUARE. CHECK, MEASURE & SIGHT FROM ALL DIRECTIONS BEFORE FINAL WELDING.
2. SMOOTH & RADIUS ALL WELDS.



BAKER'S RACK		4	2	FRONT SUPPORT	$\frac{3}{8}$ " DIA. X 33" HR. ROD	10	2	SCROLL	$\frac{1}{4}$ " DIA. X 28" CRS ROD		
		5	2	LARGE SHELF BRKT.	SEE NOTE	11	2	SCROLL	$\frac{1}{4}$ " DIA. X 19" CRS ROD		
NO.	QU.	NAME	MATERIAL	6	1	SMALL SHELF BRKT.	SEE NOTE	12	2	SCROLL	$\frac{1}{4}$ " DIA. X 34" CRS ROD
1	2	BACK LEG	$\frac{1}{2}$ " I.D. X 60" PIPE	7	1	TOP BAR	$\frac{1}{2}$ " I.D. X 39" PIPE	13	4	SCROLL	$\frac{1}{4}$ " DIA. X 42" CRS ROD
2	2	FRONT LEG	$\frac{1}{2}$ " I.D. X 32" PIPE	8	1	CENTER SUPPORT	$\frac{1}{4}$ " X 1 X 5 1/4" FLAT	14	4	END CAP	1" DIA. X 2 1/2" AL. ROD
3	2	BACK SUPPORT	$\frac{3}{8}$ " DIA. X 61" HR. ROD	9	3	BACK BAR	$\frac{1}{4}$ " DIA. X 36" CRS ROD	15	3	SHELVES	SEE NOTE

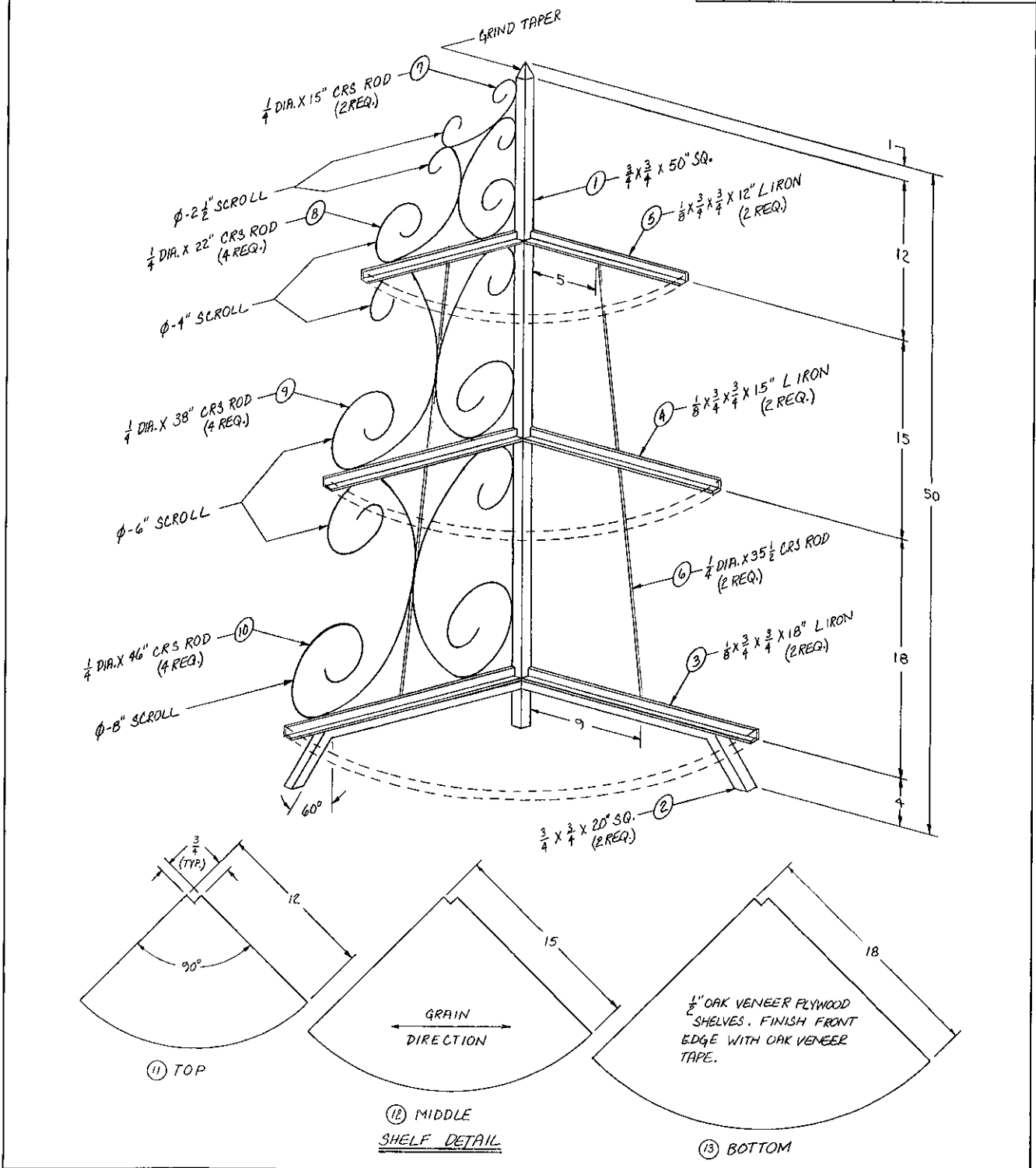
NOTE:  
LENGTHS OF RODS FOR SCROLLS MAY VARY DEPENDING ON SCROLLING DIE BEING USED.



CORNER BAKER'S RACK			
NO.	QU.	NAME	MATERIAL
1	1	CORNER FRAME	$\frac{3}{4}$ " X $\frac{3}{4}$ " X 50" HR. SQUARE
2	2	LEG	$\frac{3}{4}$ " X $\frac{3}{4}$ " X 20" HR. SQUARE
3	2	BOT. SHELF BRKT.	$\frac{1}{8}$ " X $\frac{3}{4}$ " X $\frac{3}{4}$ " X 18" L IRON
4	2	MID. SHELF BRKT.	$\frac{1}{8}$ " X $\frac{3}{4}$ " X $\frac{3}{4}$ " X 15" L IRON
5	2	TOP SHELF BRKT.	$\frac{1}{8}$ " X $\frac{3}{4}$ " X $\frac{3}{4}$ " X 12" L IRON

NOTE:  
LENGTHS OF RODS FOR SCROLLS  
MAY VARY DEPENDING ON  
SCROLLING DIE BEING USED.

6	2	SHELF SUPPORT	$\frac{1}{4}$ " DIA. X 35 $\frac{1}{2}$ " CRS ROD
7	2	SCROLL	$\frac{1}{4}$ " DIA. X 15" CRS ROD
8	4	SCROLL	$\frac{1}{4}$ " DIA. X 22" CRS ROD
9	4	SCROLL	$\frac{1}{4}$ " DIA. X 38" CRS ROD
10	4	SCROLL	$\frac{1}{4}$ " DIA. X 46" CRS ROD
11	1	TOP SHELF	SEE DETAIL
12	1	MIDDLE SHELF	SEE DETAIL
13	1	BOTTOM SHELF	SEE DETAIL



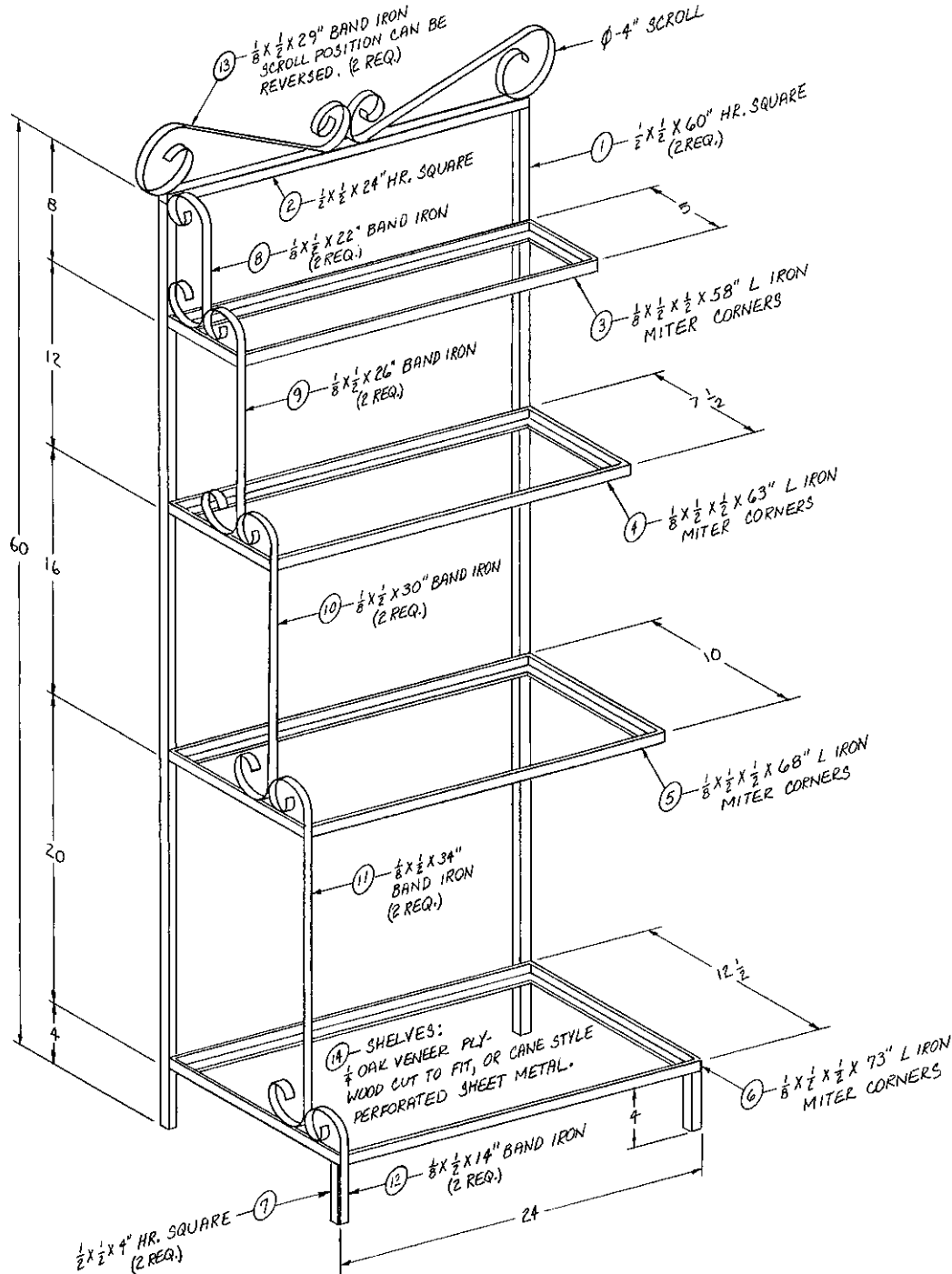
FOUR-SHELF PLANT STAND

NO.	QU.	NAME	MATERIAL
1	2	BACK FRAME	$\frac{1}{2} \times \frac{1}{2} \times 60"$ HR. SQ.
2	1	TOP FRAME	$\frac{1}{2} \times \frac{1}{2} \times 24"$ HR. SQ.
3	1	SHELF SUPPORT	$\frac{1}{8} \times \frac{1}{2} \times \frac{1}{2} \times 58"$ L IRON
4	1	SHELF SUPPORT	$\frac{1}{8} \times \frac{1}{2} \times \frac{1}{2} \times 63"$ L IRON
5	1	SHELF SUPPORT	$\frac{1}{8} \times \frac{1}{2} \times \frac{1}{2} \times 68"$ L IRON
6	1	SHELF SUPPORT	$\frac{1}{8} \times \frac{1}{2} \times \frac{1}{2} \times 73"$ L IRON

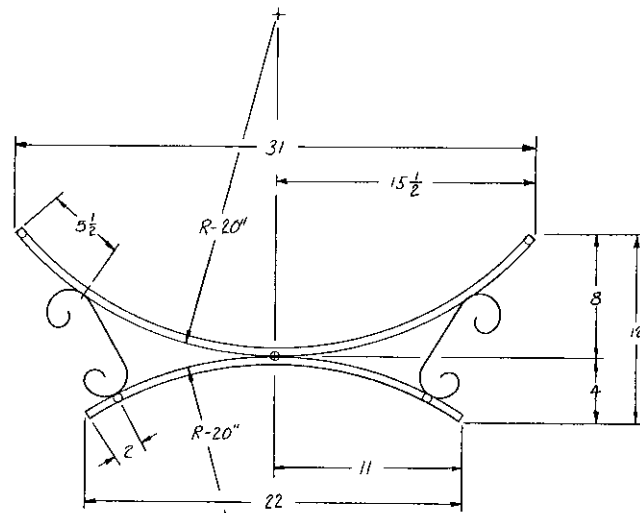
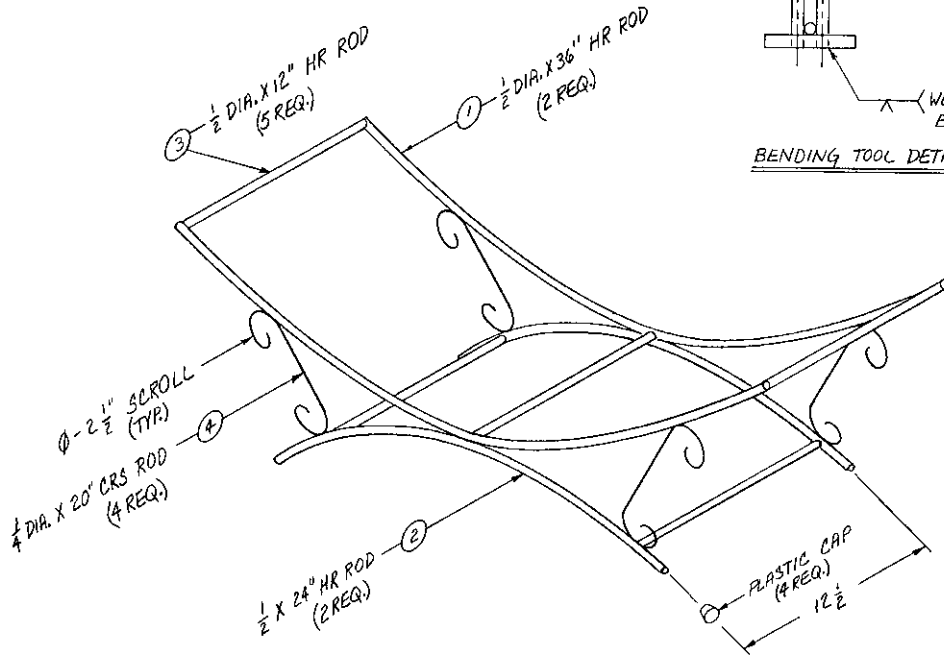
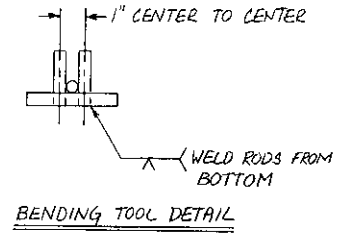
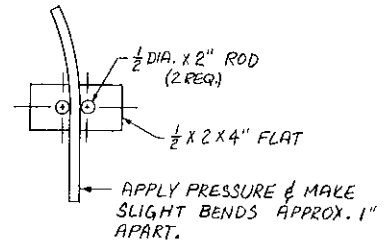
NOTES:

1. LENGTH OF STOCK FOR SCROLLS MAY VARY DEPENDING ON SCROLLING DIE BEING USED.
2. ALL SCROLLS SHOWN ARE  $\phi - 2\frac{1}{2}"$  UNLESS OTHERWISE NOTED.

7	2	LEG	$\frac{1}{2} \times \frac{1}{2} \times 4"$ HR. SQ.
8	2	SCROLL	$\frac{1}{8} \times \frac{1}{2} \times 22"$ BAND
9	2	SCROLL	$\frac{1}{8} \times \frac{1}{2} \times 26"$ BAND
10	2	SCROLL	$\frac{1}{8} \times \frac{1}{2} \times 30"$ BAND
11	2	SCROLL	$\frac{1}{8} \times \frac{1}{2} \times 34"$ BAND
12	2	SCROLL	$\frac{1}{8} \times \frac{1}{2} \times 14"$ BAND
13	2	SCROLL	$\frac{1}{8} \times \frac{1}{2} \times 29"$ BAND
14	4	SHELVES	SEE NOTE



LOG STORAGE RACK			
NO.	QU.	NAME	MATERIAL
1	2	RACK	$\frac{1}{2}$ " DIA. X 36" HR ROD
2	2	LEG	$\frac{1}{2}$ " DIA. X 24" HR ROD
3	5	SPACER	$\frac{1}{2}$ " DIA. X 12" HR ROD
4	4	SUPPORT	$\frac{1}{4}$ " DIA. X 20" CRS ROD



FRAME LAYOUT

NOTES:

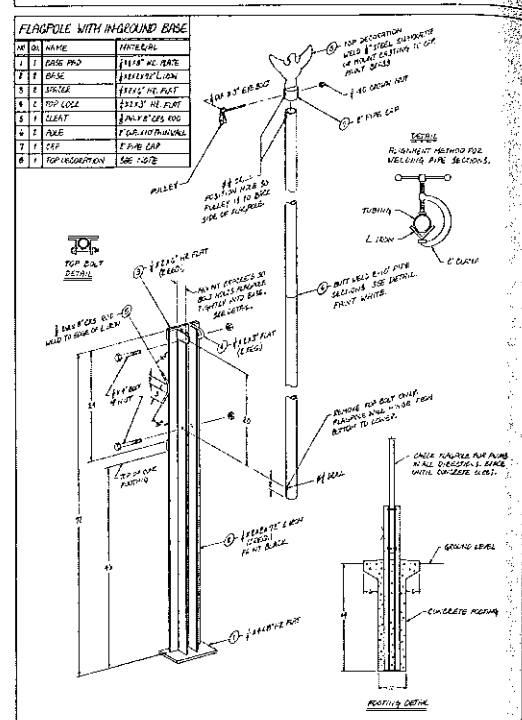
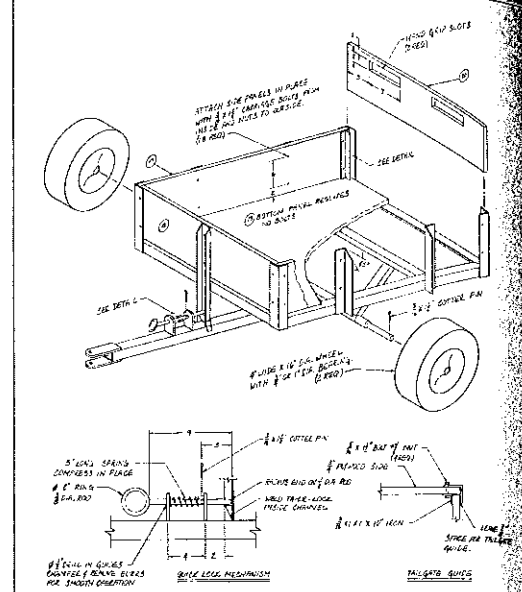
1. LAY OUT FULL SIZE PATTERN & MATCH CURVED RODS TO ARCS.
2. USE PATTERN TO KEEP PARTS SYMMETRICAL DURING ASSEMBLY.



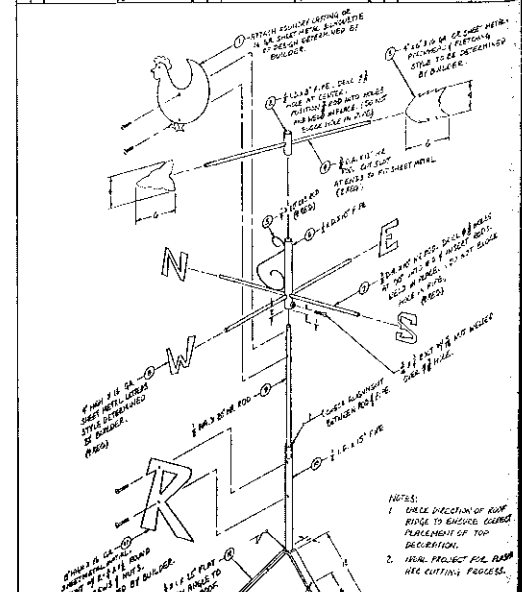
# Yard Equipment

Hand-Push Lawn Wagon.....	89
E-Z Tilt Lawn Cart.....	90
Flagpole with In-Ground Base.....	92
Pumping-Style Windmill.....	93
Weather Vane.....	95
Picnic Valet.....	96

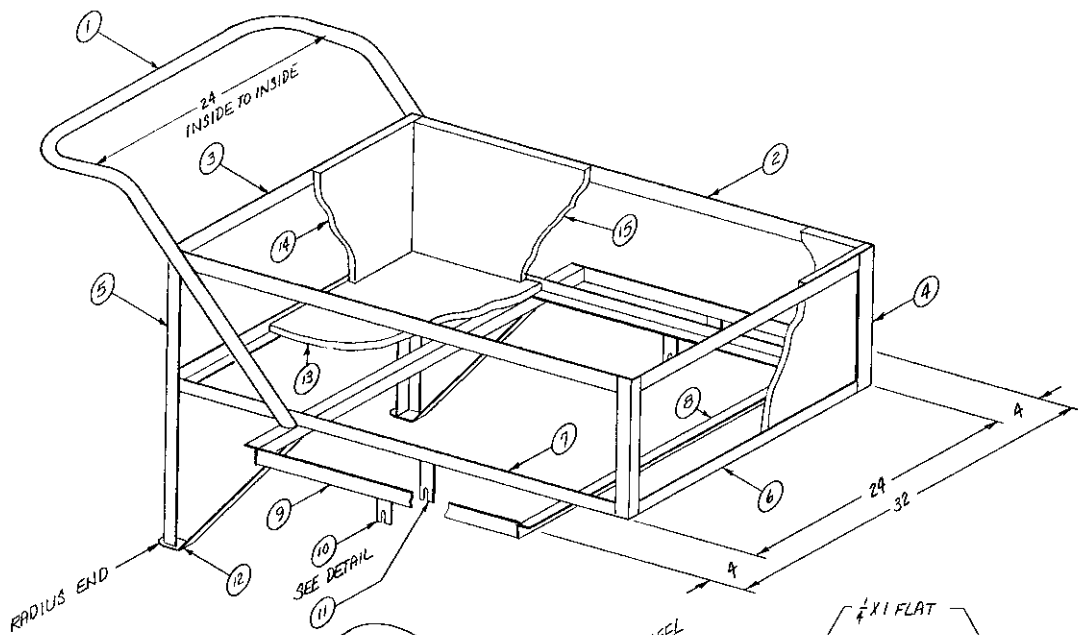
NO.	QTY.	NAME	MATERIAL	QTY.	UNIT	NO.	QTY.	NAME	MATERIAL	QTY.	UNIT
1	2	STAIRCASE	2x4x8x8 L. WOOD	3	1	1	1	LOCK BOLTS	STEEL	1	1
2	2	FRONT-REAR WHEELS	12x2x12x2 L. WOOD	2	1	2	2	WHEELS	STEEL	2	2
3	2	DRIVE SHAFTS	1x2x4x8 L. WOOD	2	1	3	3	AXLES	STEEL	3	3
4	2	PIVOT BUSHINGS	1x2x4x8 L. WOOD	2	1	4	4	WHEELS	STEEL	4	4
5	2	PIVOT	1x2x4x8 L. WOOD	2	1	5	5	WHEELS	STEEL	5	5



NO.	QTY.	NAME	MATERIAL	QTY.	UNIT	NO.	QTY.	NAME	MATERIAL	QTY.	UNIT
1	1	BASE	2x4x8 L. WOOD	1	1	4	4	LETTERS	STEEL	4	4
2	1	SHAFT	2x4x8 L. WOOD	1	1	5	5	WHEELS	STEEL	5	5
3	1	TOP	2x4x8 L. WOOD	1	1	6	6	AXLES	STEEL	6	6
4	1	LETTER	2x4x8 L. WOOD	1	1	7	7	WHEELS	STEEL	7	7
5	1	TOP	2x4x8 L. WOOD	1	1	8	8	AXLES	STEEL	8	8
6	1	LETTER	2x4x8 L. WOOD	1	1	9	9	WHEELS	STEEL	9	9
7	1	TOP	2x4x8 L. WOOD	1	1	10	10	AXLES	STEEL	10	10
8	1	LETTER	2x4x8 L. WOOD	1	1	11	11	WHEELS	STEEL	11	11
9	1	TOP	2x4x8 L. WOOD	1	1	12	12	AXLES	STEEL	12	12
10	1	LETTER	2x4x8 L. WOOD	1	1	13	13	WHEELS	STEEL	13	13
11	1	TOP	2x4x8 L. WOOD	1	1	14	14	AXLES	STEEL	14	14
12	1	LETTER	2x4x8 L. WOOD	1	1	15	15	WHEELS	STEEL	15	15

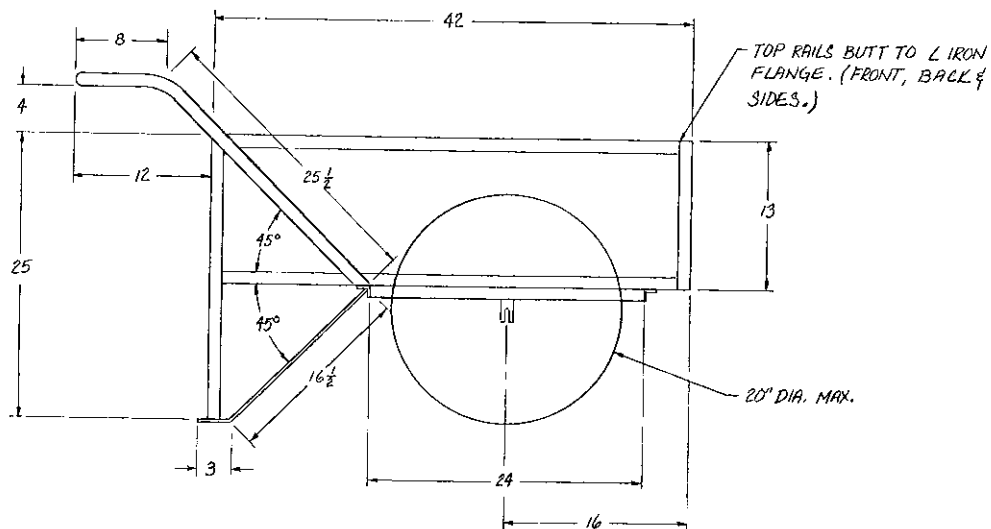
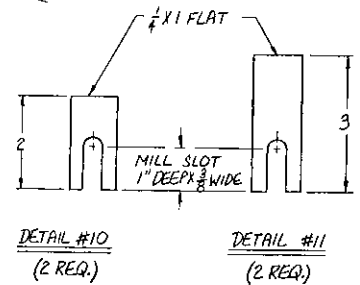
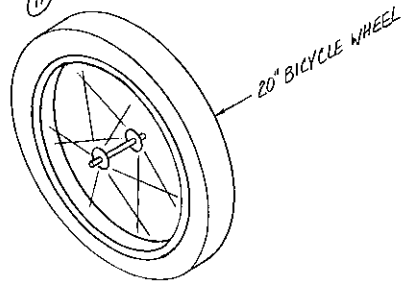


HAND-PUSH LAWN WAGON			
NO.	QU.	NAME	MATERIAL
4	2	FRONT CORNER	1 X 1 X 1/8" X 13" L IRON
5	2	REAR CORNER	1 X 1 X 3/16" X 25" L IRON
6	2	END-BASE FRAME	1 X 1 X 3/16" X 22" L IRON
7	2	SIDE-BASE FRAME	1 X 1 X 3/16" X 40" L IRON
8	2	CROSS MEMBER	1 X 1 X 3/16" X 32" L IRON
9	2	WHEEL SUPPORT	1/4" X 1 X 24" HR FLAT
10	2	OUTER FORK	1/4" X 1 X 2" HR FLAT
11	2	INNER FORK	1/4" X 1 X 3" HR FLAT
12	2	LEG	1/4" X 1 X 19 1/2" HR FLAT
13	1	BOTTOM	1/2" X 23 1/2" X 41 1/2" PLYWOOD
14	2	END	1/2" X 12 1/2" X 23 1/2" PLYWOOD
15	2	SIDE	1/2" X 12 1/2" X 40 1/2" PLYWOOD

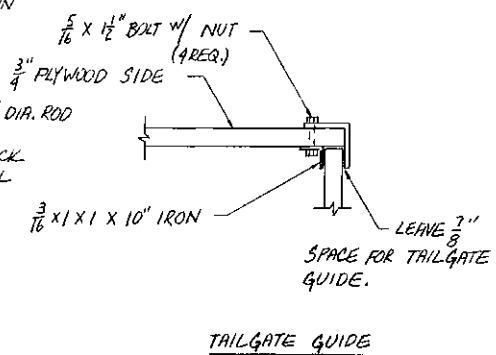
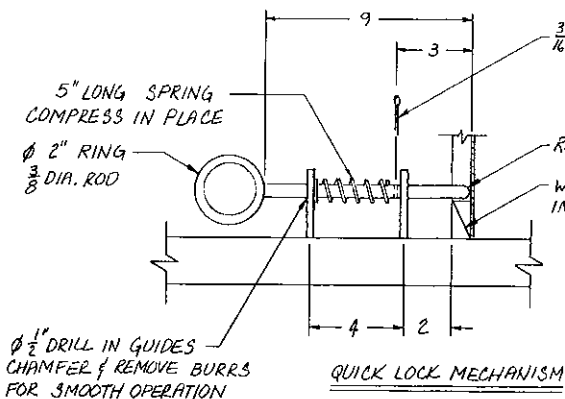
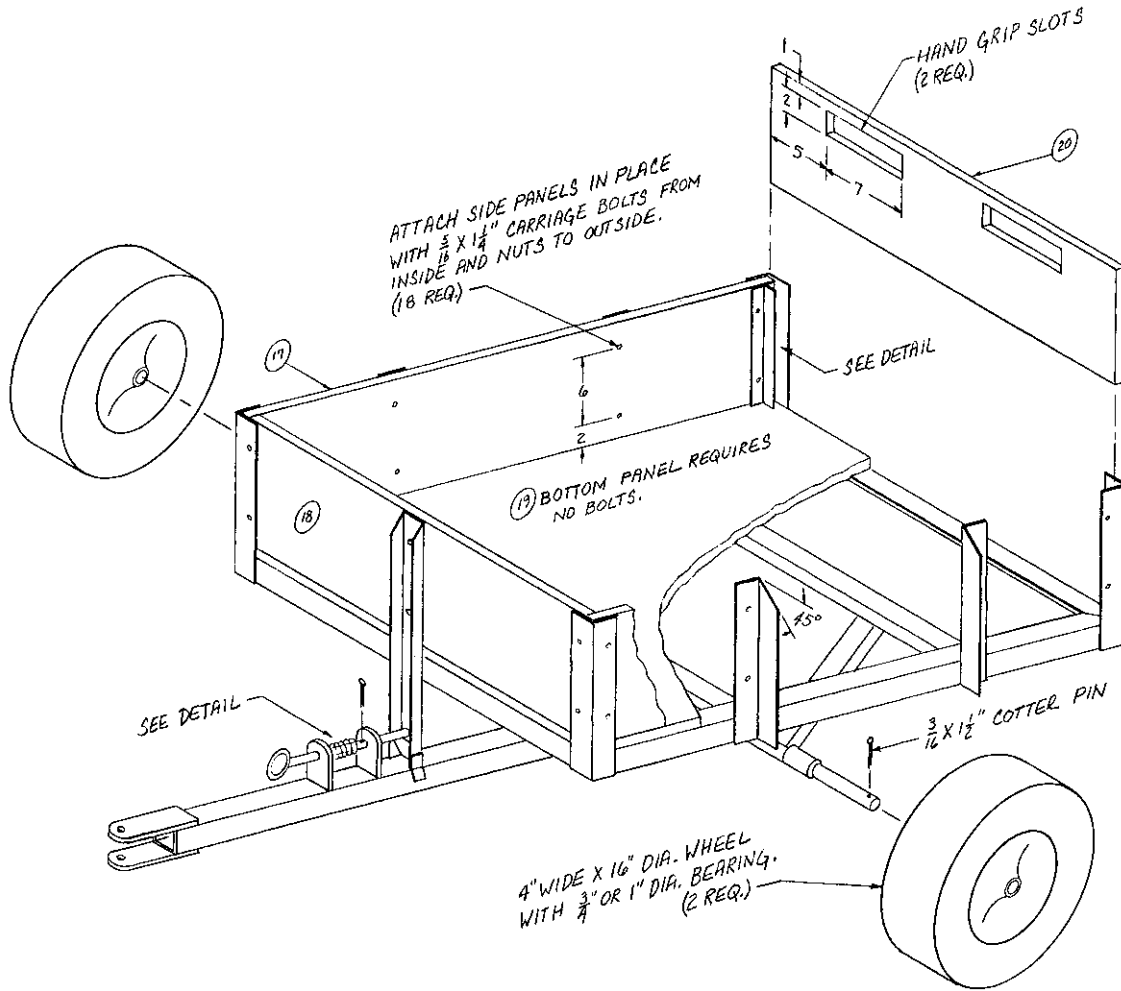


NOTES:

1. SCREW PLYWOOD SIDES TO FRAME WITH 6- $\frac{1}{4}$ " X 1 CARRIAGE BOLTS FROM INSIDE & NUTS TO OUTSIDE. (TO BE LOCATED) BOTTOM & ENDS ARE SANDWICHED IN PLACE BY SIDES.
2. PAINT FRAME & PLYWOOD SEPARATELY BEFORE FINAL ASSEMBLY.
3. USE TREATED PLYWOOD FOR BOTTOM & SIDES.

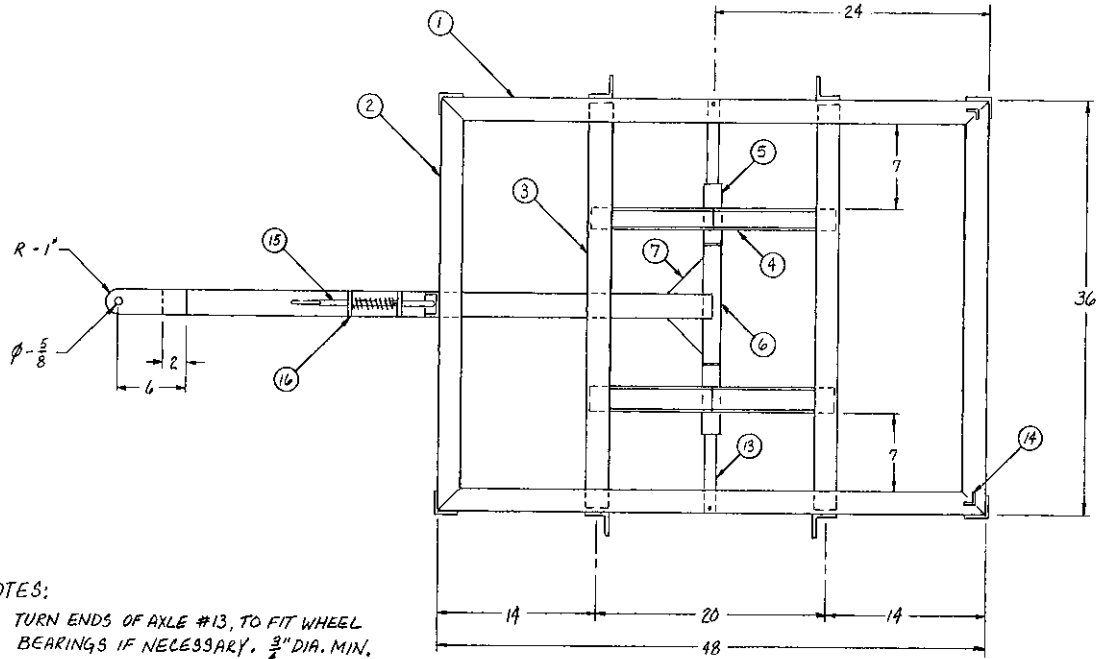


E-Z TILT LAWN CART			6	1	AXLE BRACKET	1" I.D. X 10" PIPE	14	2	TAIL GATE GUIDE	$\frac{3}{8}$ " X $1\frac{1}{2}$ " X 10" L IRON
			7	2	GUSSET	$\frac{1}{4}$ " X 3 X 3" HR PLATE	15	1	TILT LOCK	SEE ASSEMBLY
			8	2	HITCH	$\frac{1}{4}$ " X 2 X 1" HR FLAT	16	2	LOCK GUIDE	$\frac{1}{2}$ " X 2 X 3" HR FLAT
			9	1	TONGUE	2 X 2 X 48" SQ. TUBE	17	2	SIDE	$\frac{3}{4}$ " X 10 X 48" PLYWOOD
			10	1	CENTER SUPPORT	$\frac{3}{16}$ " X 1 X 2 X 22" CHANNEL	18	1	FRONT	$\frac{3}{4}$ " X 10 X 34 $\frac{1}{2}$ " PLYWOOD
			11	4	CORNER SUPPORT	$\frac{3}{16}$ " X 2 X 2 X 14" L IRON	19	1	BOTTOM	$\frac{3}{4}$ " X 36 X 48" PLYWOOD
			12	4	SIDE SUPPORTS	$\frac{3}{16}$ " X 2 X 2 X 14" L IRON	20	1	TAIL GATE	$\frac{3}{4}$ " X 10 X 34 $\frac{1}{2}$ " PLYWOOD
			13	1	AXLE	1" DIA. X 36" CRS ROD	PAGE 1 OF 2			
NO.	QU.	NAME	MATERIAL							
1	2	SIDE FRAME	$\frac{3}{16}$ " X 2 X 2 X 48" L IRON							
2	2	FRONT-REAR FRAME	$\frac{3}{16}$ " X 2 X 2 X 36" L IRON							
3	2	CENTER SUPPORT	$\frac{3}{16}$ " X 1 X 2 X 35 $\frac{1}{2}$ " CHANNEL							
4	4	PIVOT SUPPORT	$\frac{3}{16}$ " X 1 X 2 X 14" CHANNEL							
5	2	PIVOT	1" I.D. X 6" PIPE							



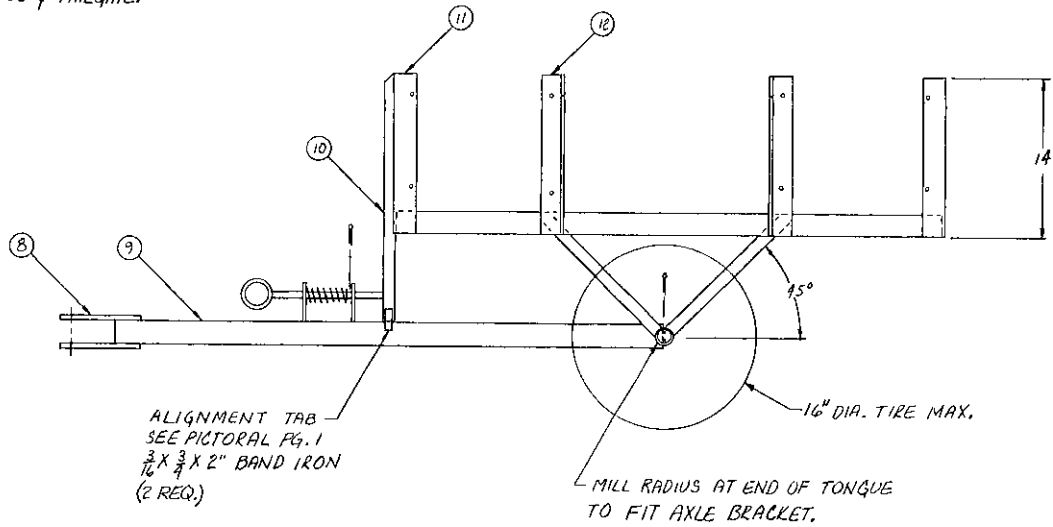
E-Z TILT LAWN CART

PAGE 2 OF 2



NOTES:

1. TURN ENDS OF AXLE #13, TO FIT WHEEL BEARINGS IF NECESSARY.  $\frac{3}{4}$ " DIA. MIN.
2. PAINT FRAME & PLYWOOD SEPARATELY, BEFORE FINAL ASSEMBLY.
3. ROPE CAN BE ATTACHED TO QUICK LOCK RING TO OPERATE DUMP MECHANISM FROM TRACTOR.
4. USE TREATED PLYWOOD FOR BOTTOM, SIDES & TAILGATE.

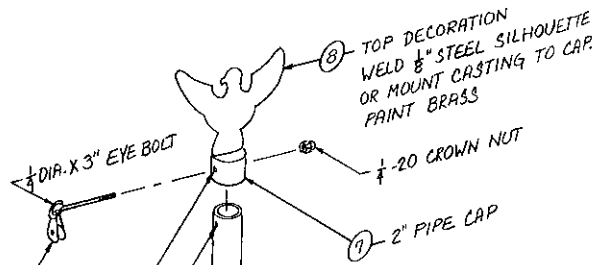


ALIGNMENT TAB  
SEE PICTORAL PG. 1  
 $\frac{3}{16} \times \frac{3}{4} \times 2$ " BAND IRON  
(2 REQ.)

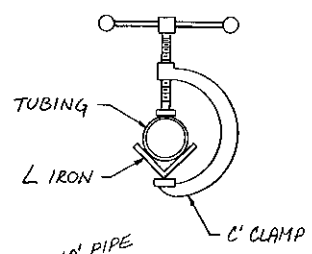
MILL RADIUS AT END OF TONGUE  
TO FIT AXLE BRACKET.

**FLAGPOLE WITH IN-GROUND BASE**

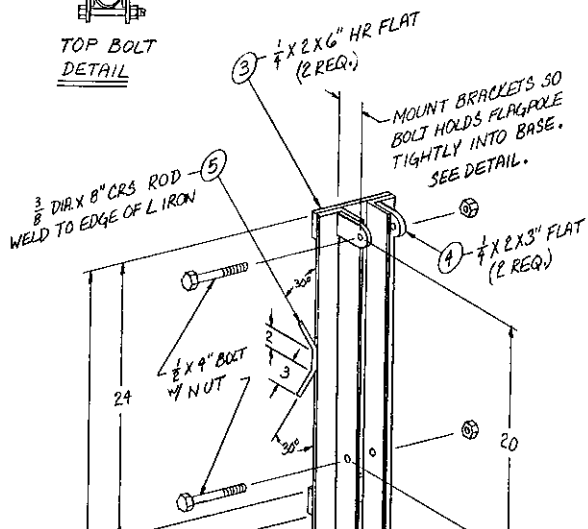
NO.	QTY.	NAME	MATERIAL
1	1	BASE PAD	$\frac{1}{4}$ " X 8" HR. PLATE
2	2	BASE	$\frac{1}{4}$ " X 2 X 72" L IRON
3	2	SPACER	$\frac{1}{4}$ " X 2 X 6" HR. FLAT
4	2	TOP LOCK	$\frac{1}{4}$ " X 2 X 3" HR. FLAT
5	1	CLEAT	$\frac{3}{8}$ " DIA. X 8" CRS ROD
6	2	POLE	2" DIA. X 10' THINWALL
7	1	CAP	2" PIPE CAP
8	1	TOP DECORATION	SEE NOTE



DETAIL  
ALIGNMENT METHOD FOR  
WELDING PIPE SECTIONS.



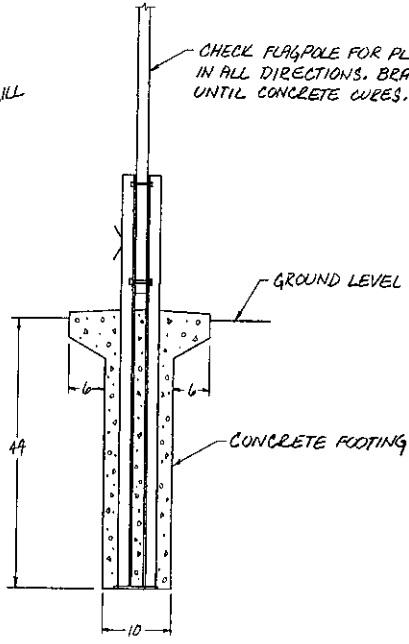
TOP BOLT  
DETAIL



⑥ BUTT WELD 2-10' PIPE  
SECTIONS. SEE DETAIL.  
PAINT WHITE.

REMOVE TOP BOLT ONLY.  
FLAGPOLE WILL HINGE FROM  
BOTTOM TO LOWER.

CHECK FLAGPOLE FOR PLUMB  
IN ALL DIRECTIONS. BRACE  
UNTIL CONCRETE CURES.



FOOTING DETAIL

24  
 30°  
 2  
 3  
 30°  
 20  
 72  
 46  
 TOP OF CONC.  
 FOOTING

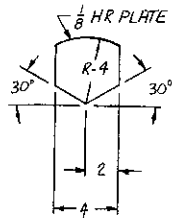
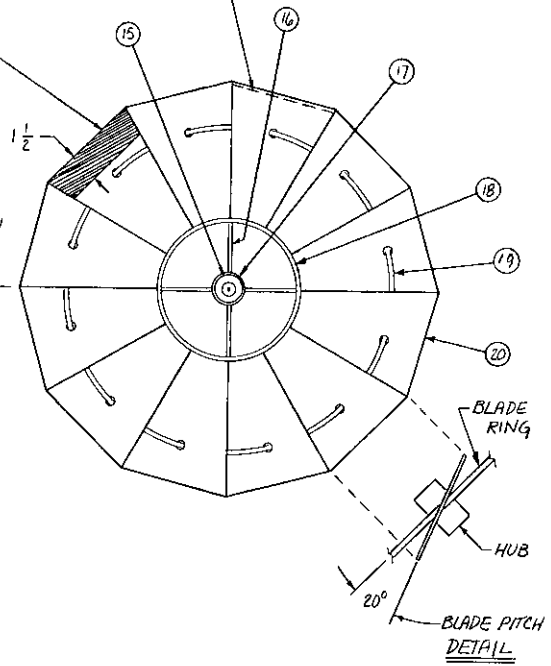
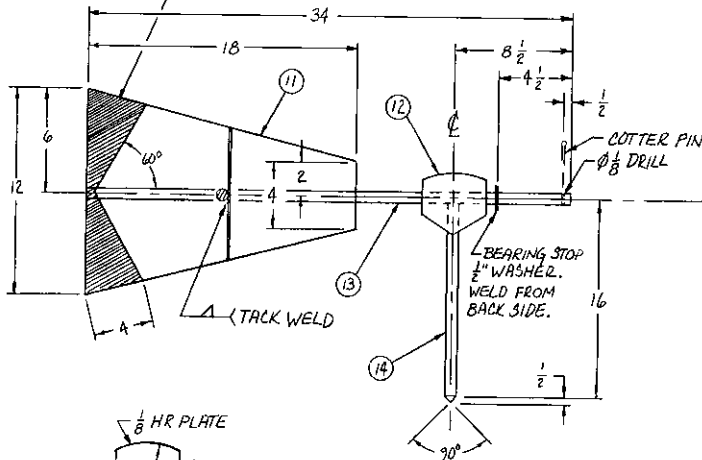
$\phi \frac{1}{4}$ " DRILL  
POSITION HOLE SO  
PULLEY IS TO BACK  
SIDE OF FLAGPOLE.

PUMPING-STYLE WINDMILL

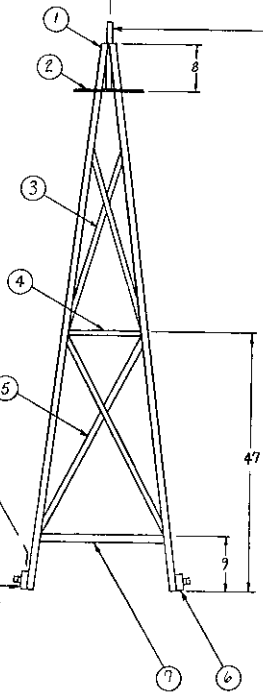
PAGE 1 OF 2

PAINTING - ENTIRE WINDMILL WITH A HIGH-QUALITY PRIMER & SILVER PAINT. TRIM FAN BLADES & VANE ON BOTH SIDES WITH RED PAINT. (SHADED AREAS)

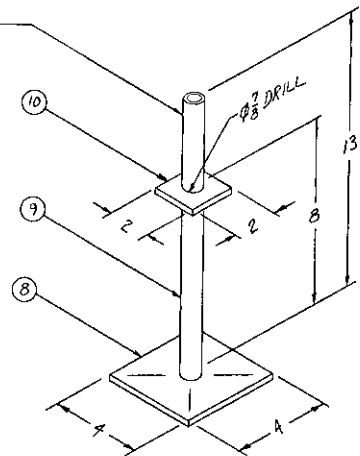
BALANCE FAN AFTER ASSEMBLY. TRIM THIN CUTS OFF END OF BLADE THAT STOPS AT BOTTOM AFTER SPINNING.



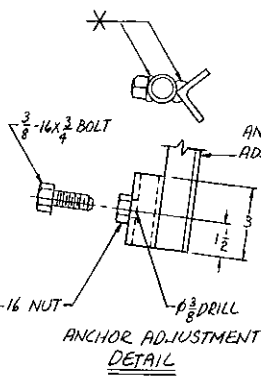
DETAIL #12 GEAR BOX (2 REQ.) WELD ONE ON EACH SIDE.



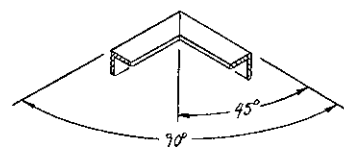
TOWER SHOWN IN HALF SCALE



PIVOT ASSEMBLY DETAIL



ANCHOR ADJUSTMENT DETAIL



BASE FRAME #7 CORNER DETAIL

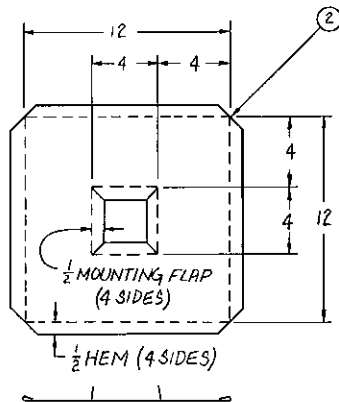
PUMPING-STYLE WINDMILL

NO.	QU.	NAME	MATERIAL
1	4	LEG	$\frac{1}{8}$ " X 1 1/2" X 96" L IRON
2	1	FAN GUARD	12" X 12" X 18 GA. CRS
3	8	UPPER CROSS MEMBER	$\frac{1}{8}$ " X $\frac{3}{4}$ " X 36" HR BAND
4	4	CENTER BRACE	$\frac{1}{8}$ " X $\frac{3}{4}$ " X 13 1/2" HR BAND
5	8	LOWER CROSS MEMBER	$\frac{1}{8}$ " X $\frac{3}{4}$ " X 41" HR BAND
6	4	ANCHOR LOCK	SEE DETAIL
7	4	BASE FRAME	$\frac{1}{8}$ " X 1 1/2" X 24" L IRON
8	1	PIVOT BASE	$\frac{1}{4}$ " X 4" X 4" HR PLATE
9	1	PIVOT SLEEVE	$\frac{1}{2}$ " I.D. BLACK PIPE
10	1	TOP SUPPORT	$\frac{1}{4}$ " X 2" X 2" HR PLATE
11	1	VANE	12" X 18" X 18 GA. CRS
12	2	GEAR BOX	$\frac{1}{8}$ " HR PLATE
13	1	VANE-FAN AXLE	$\frac{1}{2}$ " DIA. X 3 1/2" CRS ROD
14	1	PIVOT	$\frac{1}{2}$ " DIA. X 16" CRS ROD
15	2	BEARING (RADIAL)	SEE NOTE # 2
16	4	SPOKE	$\frac{3}{16}$ " X $\frac{3}{4}$ " X 3 1/2" HR BAND
17	1	HUB	1 1/4" I.D. X 3 1/2" PIPE
18	1	INNER RING	$\frac{3}{16}$ " X $\frac{3}{4}$ " X 26 5/8" HR BAND
19	1	BLADE RING	$\frac{1}{4}$ " DIA. X 58 1/8" CRS ROD
20	12	FAN BLADE	SEE DETAIL 18 GA. CRS
21	4	ANCHOR STAKE	$\frac{1}{2}$ " DIA. X 30" HR ROD

PAGE 2 OF 2

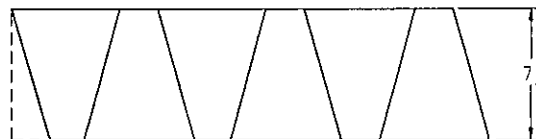
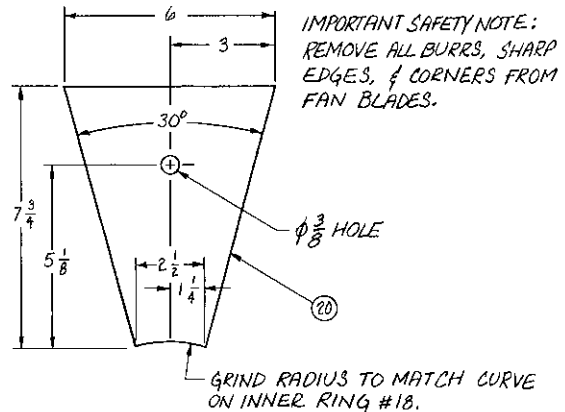
NOTES:

1. FOR ACCURATE BLADE PLACEMENT, LAY OUT FULL SIZE DIAGRAM OF FAN ASSEMBLY.
2. BALL BEARING # 15 IS A RADIAL BEARING WITH A SHOULDER ON ONE SIDE.  $\frac{1}{2}$ " I.D. BORE & 1 3/8" O.D. RACE. (2 REQ.)
3. NOS. 1 & 7 ADD TO MAKE EVEN 10' LENGTHS.
4. ANCHORING (PART #21) IS VERY IMPORTANT. SYSTEM ALSO WORKS AS A LEVELING ADJUSTMENT. CHECK FOR UNDERGROUND UTILITIES BEFORE DRIVING STAKES.
5. NOS. 18 & 19 CAN BE FORMED AROUND PAINT CANS OR SMALL BARRELS - CHECK ROUNDNESS AFTER WELDING INTO RING.
6. FAN DIAMETER 19 24" ACROSS FLATS.
7. NOS. 3-4-5 & 7 WELD TO INSIDE OF ANGLE-IRON LEGS. FOR BEST APPEARANCE KEEP ALL WELDS TO INSIDE OF STRUCTURE.



FOLDING PLAN  
FAN GUARD # 2

DETAIL

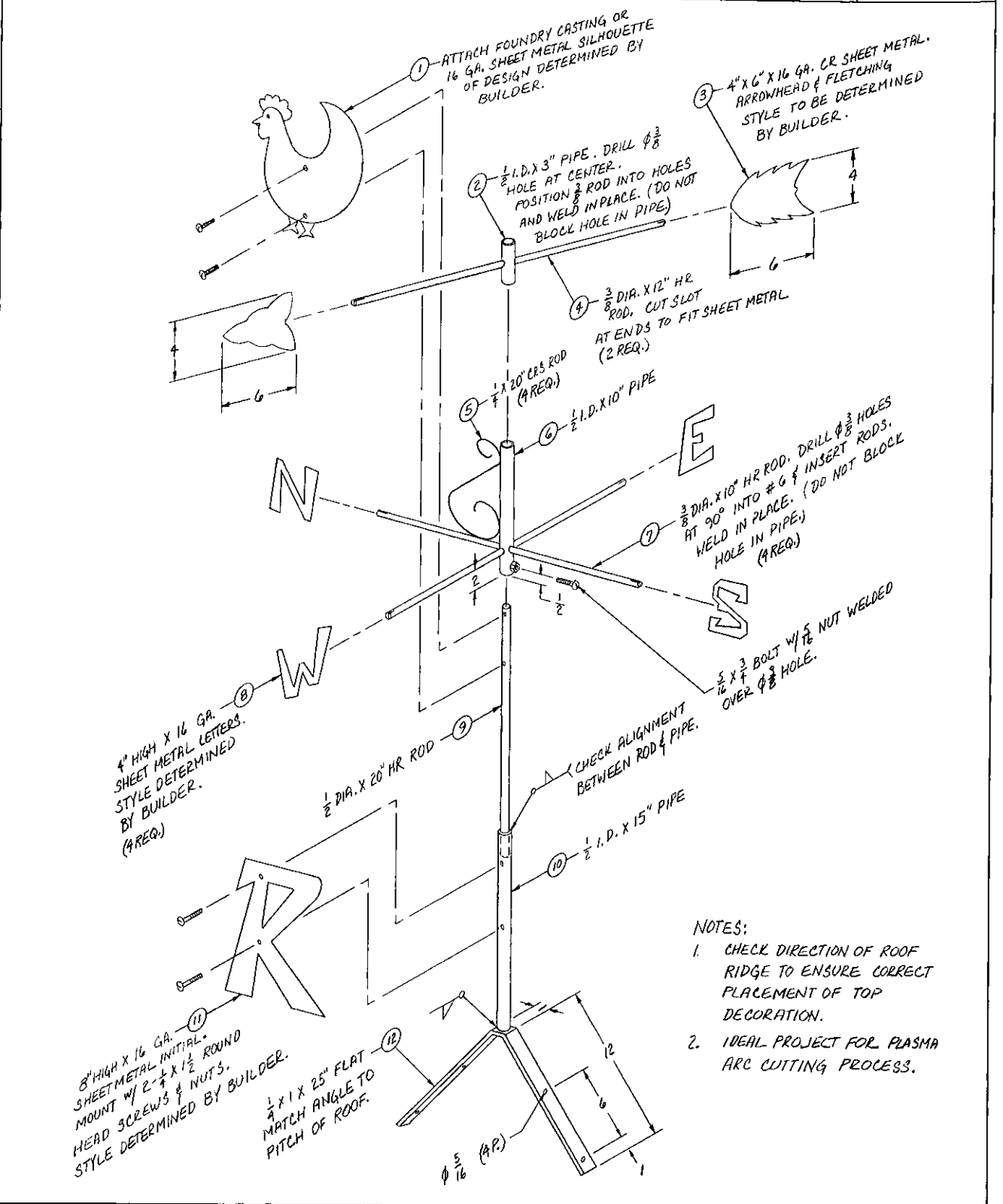


BLADE LAYOUT REVERSES FOR ECONOMICAL USE OF MAT'L.

FAN BLADE # 20 (12 REQ.)

DETAIL

WEATHER VANE			3	2	ARROW-FEATHER	16 GA X 4" X 6" SM	8	4	LETTERS	16 GA. SHEET METAL		
NO.	QU.	NAME			MATERIAL							
1	1	DECORATION			16 GA. SHEET METAL			9	1	SUPPORT SHAFT	1/2 DIA. X 20" HR ROD	
2	1	PIVOT			1/2 I.D. X 3" PIPE			10	1	SUPPORT COLUMN	1/2 I.D. X 15" PIPE	
			5	4	SCROLL	1/4 DIA. X 20" CRS ROD						
			6	1	DIRECTION SETTING	1/2 I.D. X 10" PIPE						
			7	4	ARMS	3/8 DIA. X 10" HR ROD						
									11	1	INITIAL	16 GA. SHEET METAL
									12	1	ROOF BRACKET	1/4 X 1 X 2 1/2" FLAT



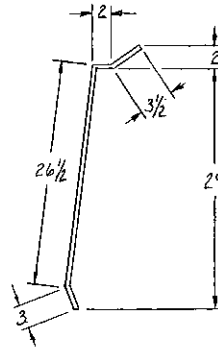


# PICNIC VALET

NO.	QU.	NAME	MATERIAL
1	2	FRAME - END	1/4 X 1 X 16" FLAT
2	2	FRAME - SIDE	1/4 X 1 X 28" FLAT
3	1	HANDLE	1/2 I.D. X 10" PIPE
4	1	LEG - END	1/2 DIA. X 40" HR. ROD
5	3	LEG	1/2 DIA. X 60" HR. ROD
6	1	AXLE	1/2 DIA. HR. ROD (NOTE)
7	1	AXLE SUPPORT	1/2 I.D. X 19" PIPE
8	1	SHELF	1/8 X 1/8 X 1/2 X 78" L IRON

### DETAIL # 1

CUT TO 40" - HEAT & BEND TO SHAPE, STARTING FROM TOP - ADJUST TO LENGTH.



### DETAIL # 2

CUT TO 60" LONG - HEAT & BEND AT CENTER - ADJUST LEGS TO LENGTH AFTER BENDING.

