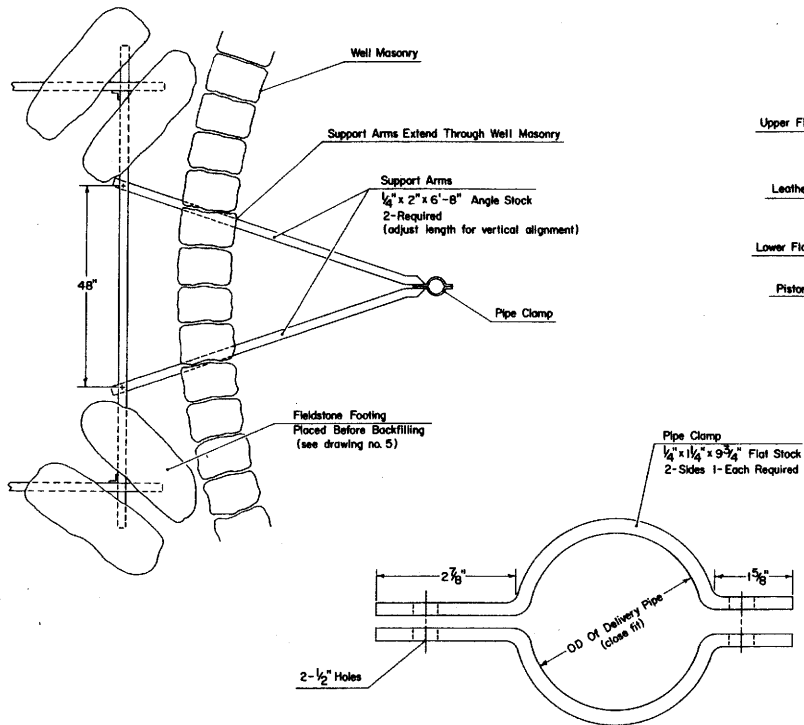
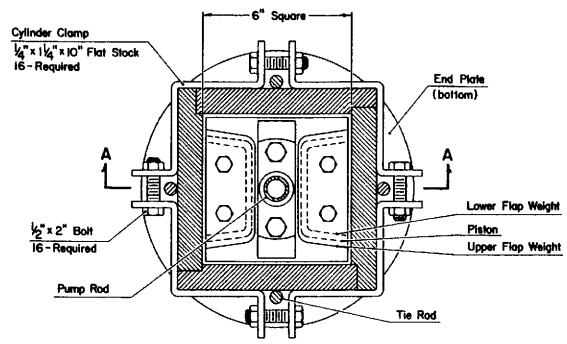


**Delivery Pipe Upper Support Arms & Clamp**

Scale: Arms - 1 inch = 1 foot / Clamp - Full Size

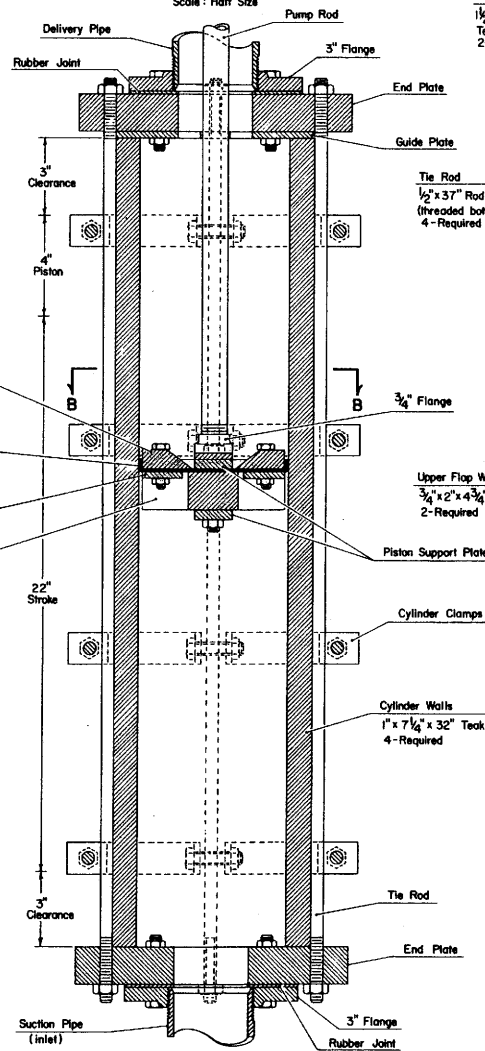


**Delivery Pipe Lower Support Arms & Clamp**

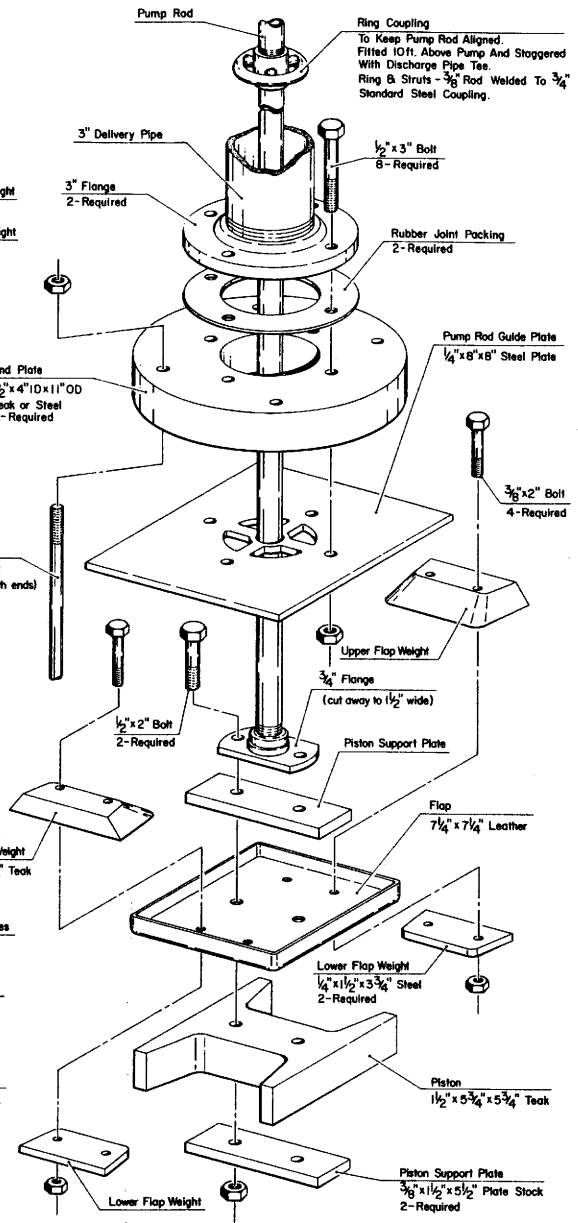


**Section View B-B Cylinder & Piston**

Scale: Half Size



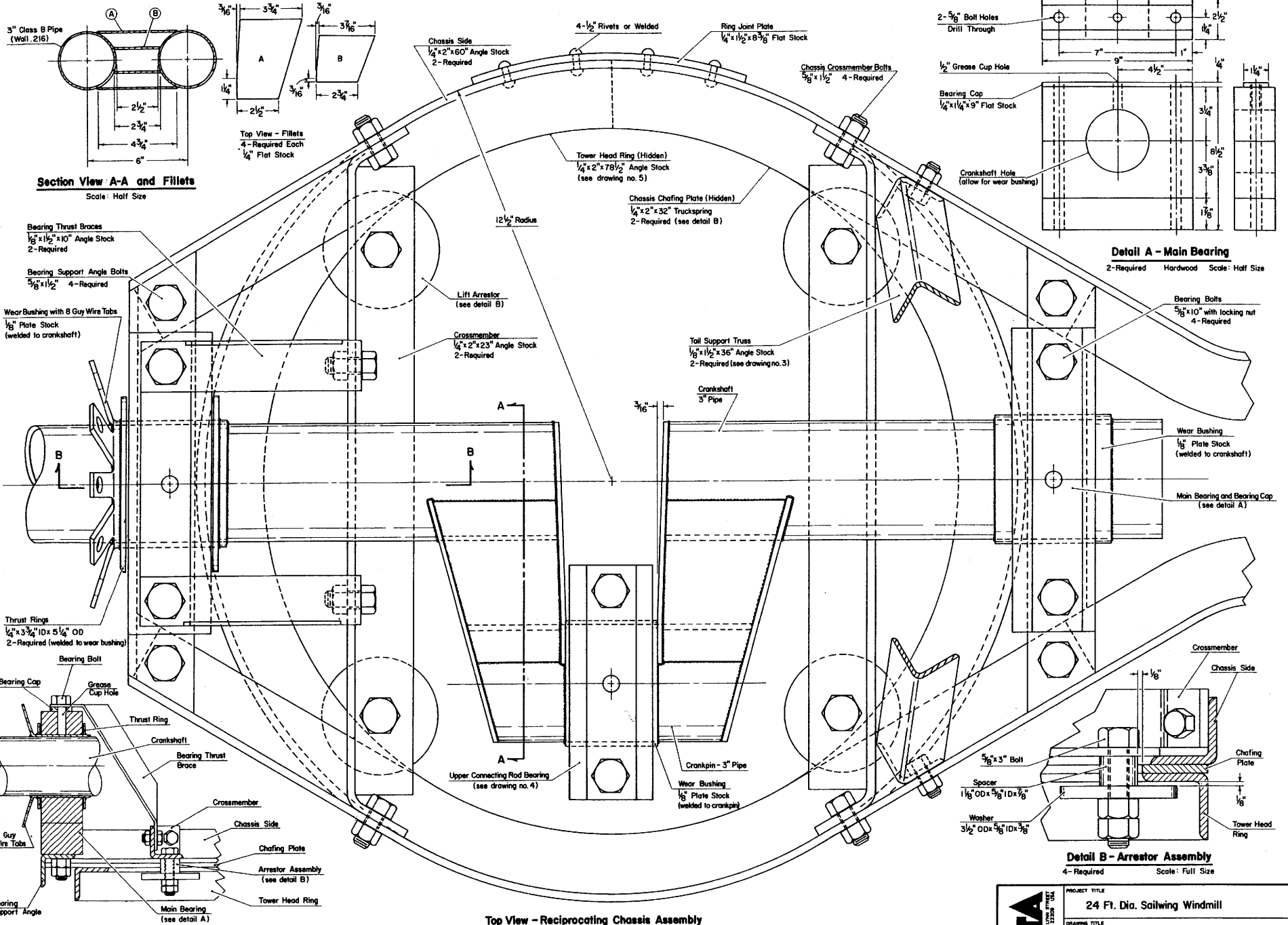
**Section View A-A Cylinder & Piston**



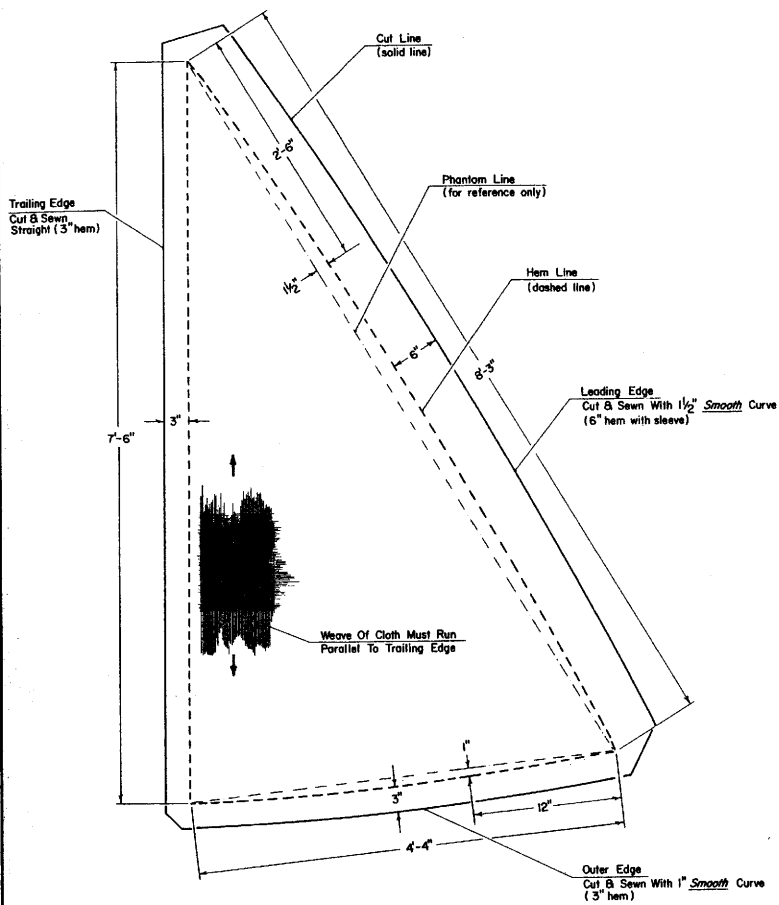
**Exploded View - Piston Assembly**

Do Not Scale

	PROJECT TITLE	24 Ft. Dia. Salwing Windmill		
	DRAWING TITLE	Upper & Lower Delivery Pipe Support Arms & Clamps And Teakwood Piston Pump		
	DESIGNED BY	DRAWN BY	APPROVED BY	SCALE
	W.Smith	W.Cesari		
DRAWING NUMBER				

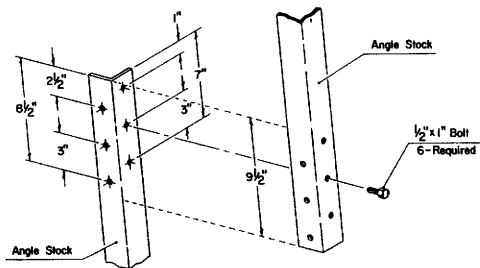


	PROJECT TITLE	24 Ft. Dia. Sailing Windmill
	DRAWING TITLE	Reciprocating Chassis Assembly With Crank, Lift Arrester & Main Bearing
	DESIGNED BY	W. Smith
	DRAWN BY	W. Gense
APPROVED BY		SCALE
DRAWING NUMBER		2



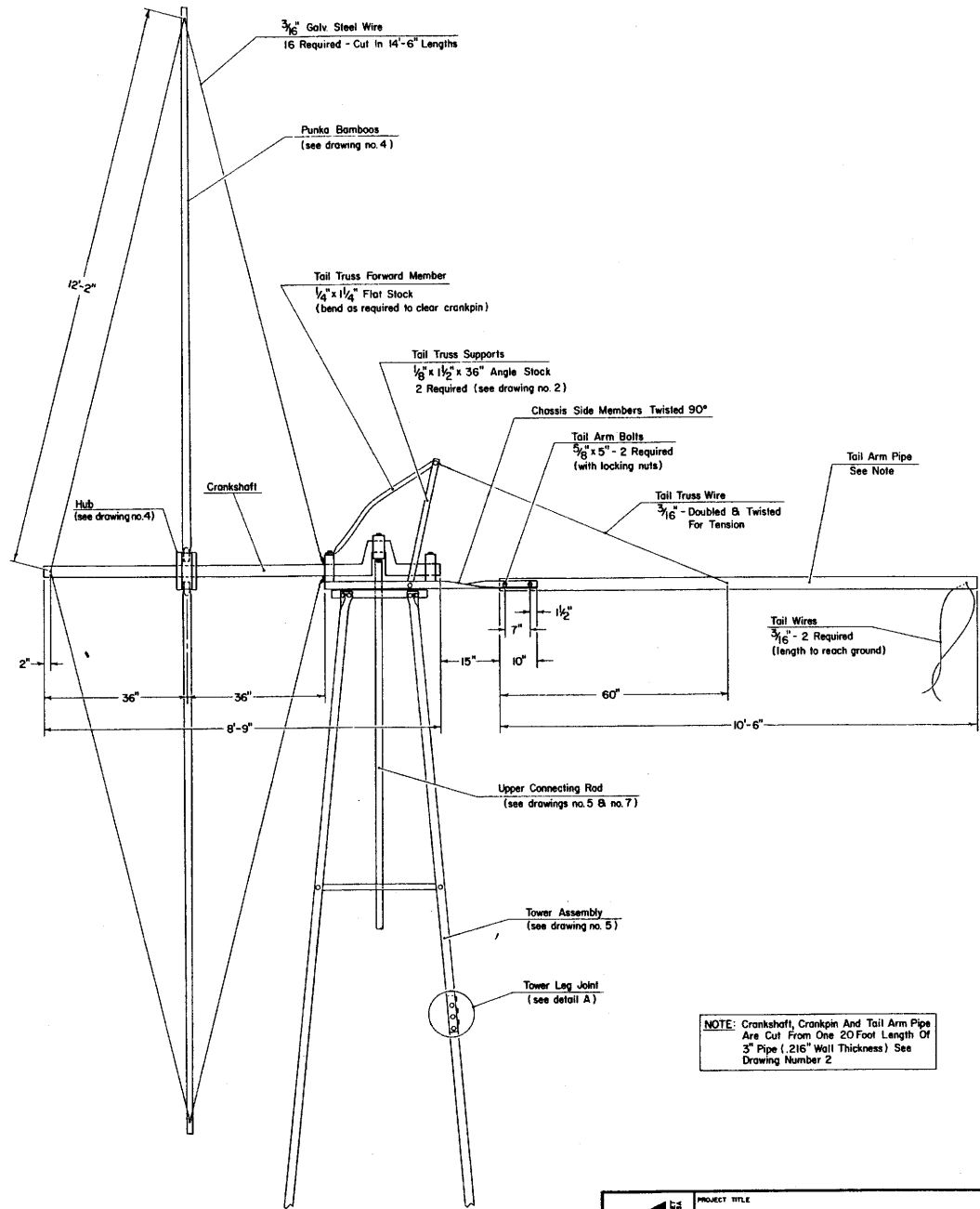
**Sail Cutting Pattern**

8 Required Scale: 2 inches = 1 foot



**Detail A - Tower Leg Joint**

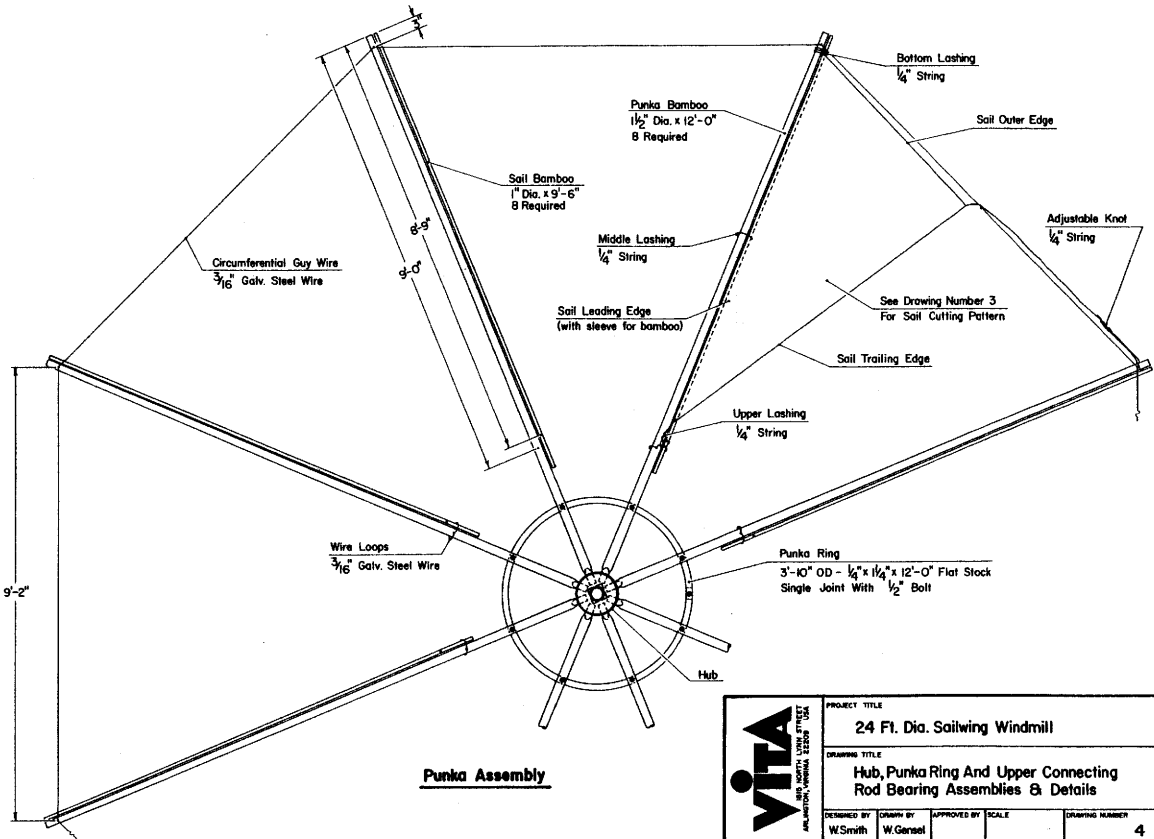
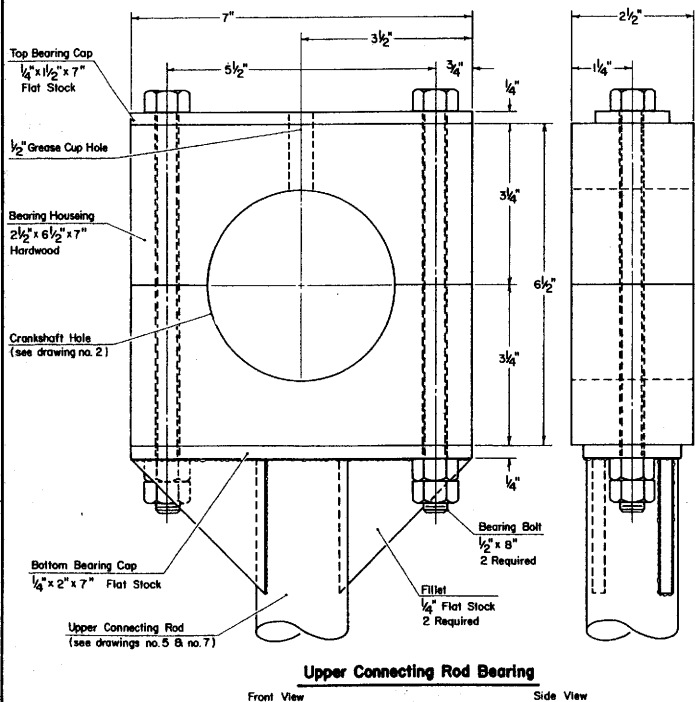
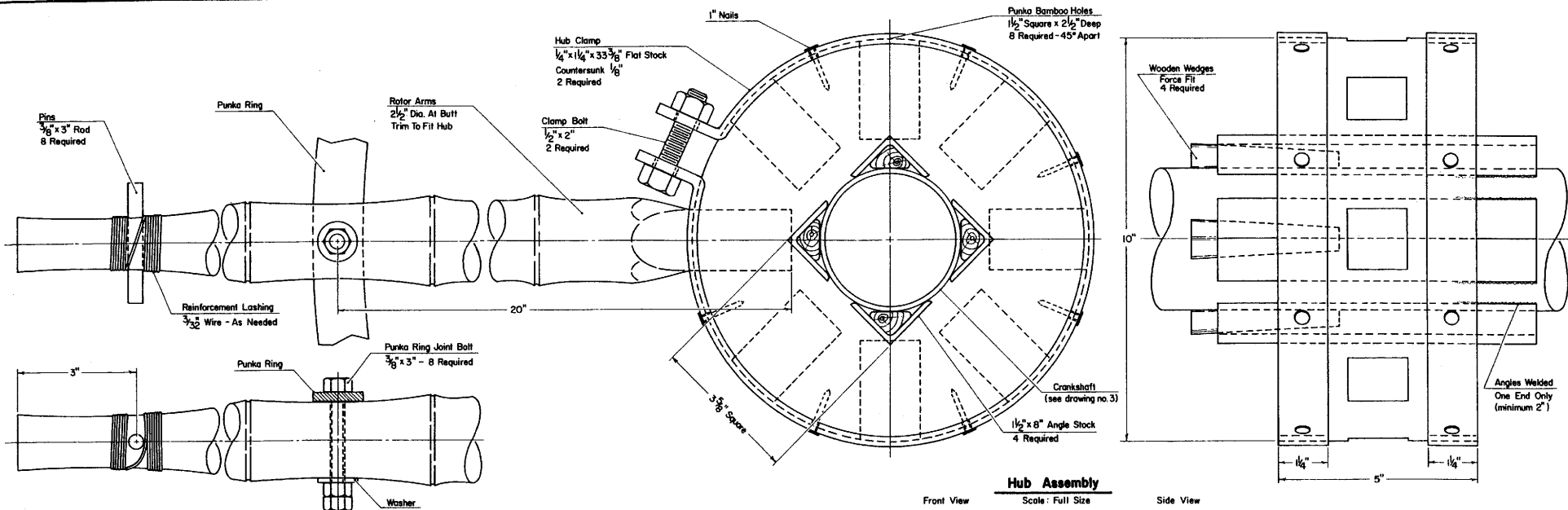
As Required



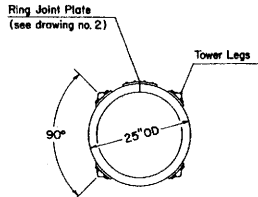
**NOTE:** Crankshaft, Crankpin And Tail Arm Pipe Are Cut From One 20 Foot Length Of 3" Pipe (.216" Wall Thickness) See Drawing Number 2

**Side View - Punka And Tail Arm Assembly**

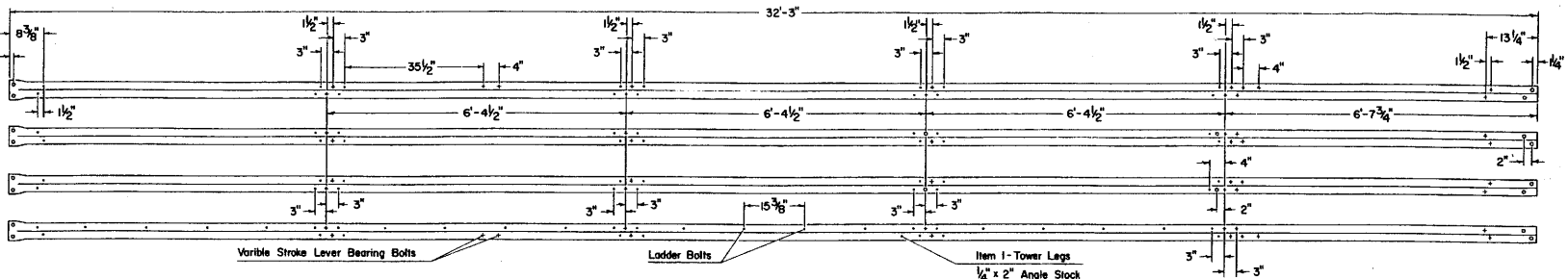
	PROJECT TITLE				24 Ft. Dia. Sailing Windmill
	DRAWING TITLE				Punka And Tail Arm Assembly & Sail Cutting Pattern
DESIGNED BY	DRAWN BY	APPROVED BY	SCALE	DRAWING NUMBER	
W.Smith	W.Gensel			3	



	PROJECT TITLE			
	24 Ft. Dia. Sailing Windmill			
	DRAWING TITLE			
	Hub, Punka Ring And Upper Connecting Rod Bearing Assemblies & Details			
DESIGNED BY	GRAPH BY	APPROVED BY	SCALE	DRAWING NUMBER
W.Smith	W.Gensel			4

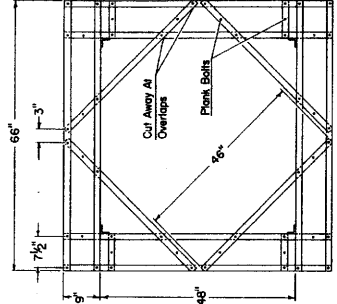


**Detail A - Tower Head Ring**

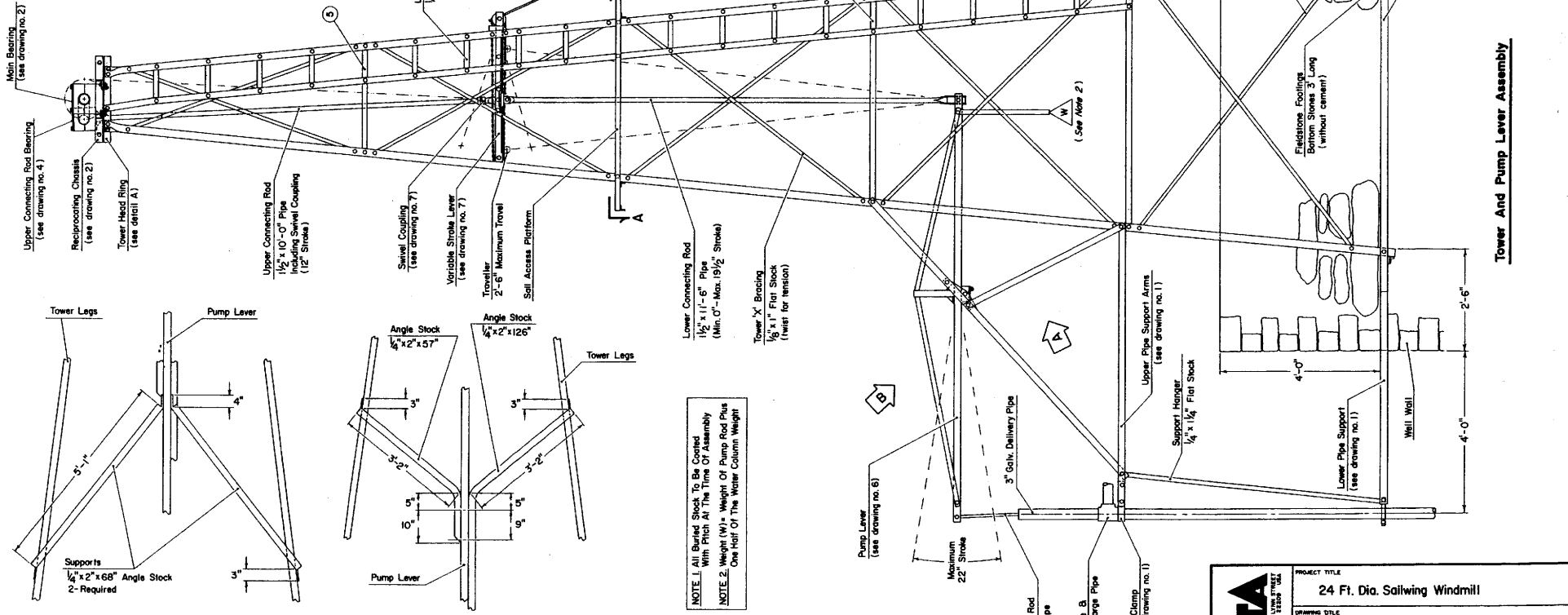
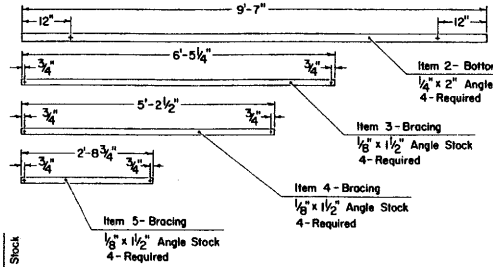


Bolt Hole Pattern Key		
Symbol	Hole Size	From Angle Edge
o	5/8"	1"
+	1/2"	7/8"
-	3/8"	7/8"

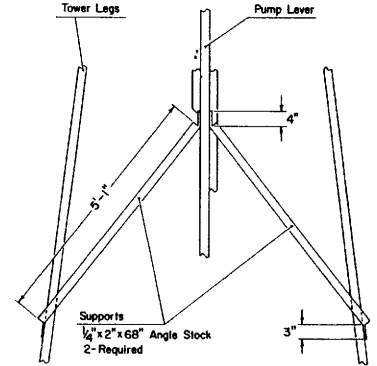
**Tower Legs & Bracing Bolt Hole Patterns**



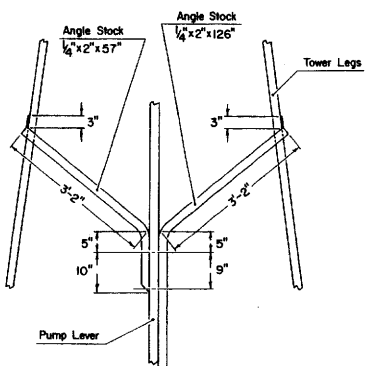
**Section View A-A Platform**  
Constructed Of 1/2" x 1 1/2" Angle Stock And 3/8" Bolts With 2-68 & 2-48" Wood Planks



**Tower and Pump Lever Assembly**



**View A - Lever Lower Supports**



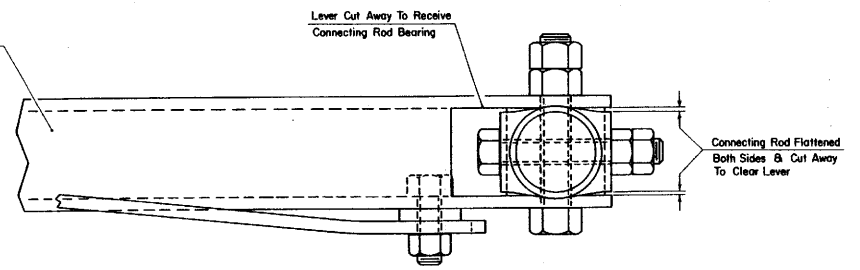
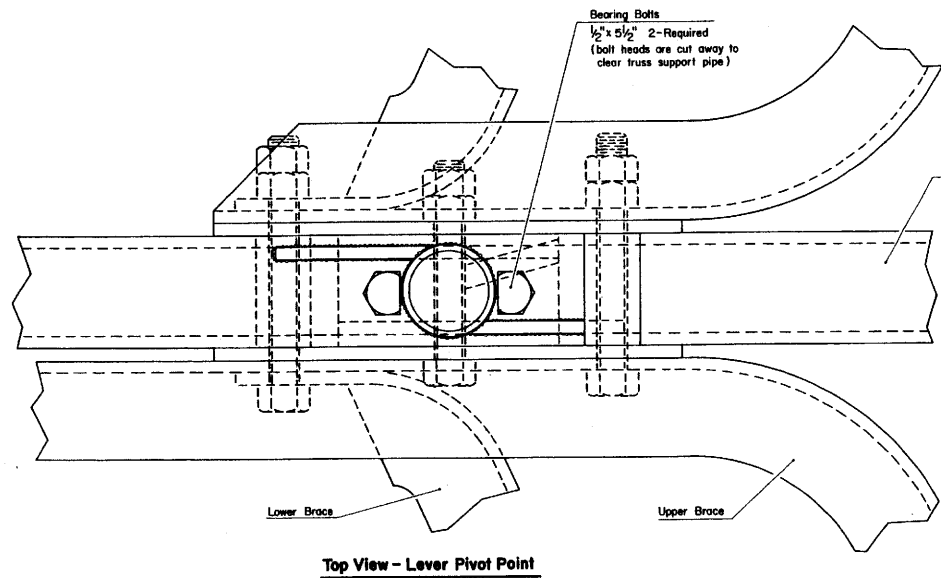
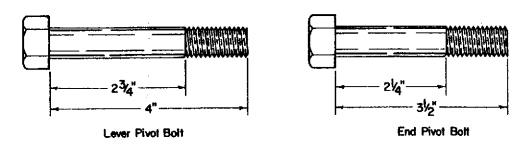
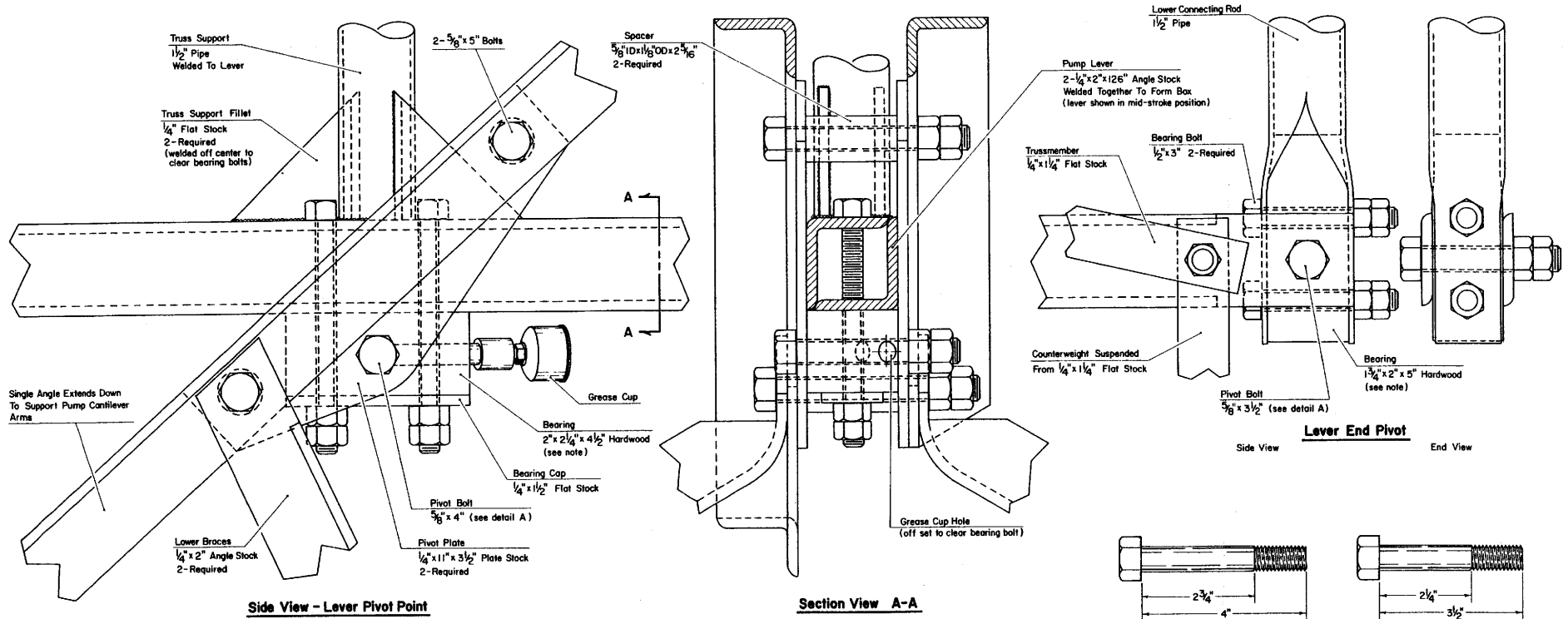
**View B - Lever Upper Supports**

**NOTE 1** All Burled Stock To Be Certified With Pitch At The Time Of Assembly  
**NOTE 2** Weight (W) = Weight Of Pump Rod Plus One Half Of The Water Column Weight

PROJECT TITLE  
**24 Ft. Dia. Sailing Windmill**

DRAWING TITLE  
**Tower and Pump Lever Assembly With Bolt Hole Patterns**

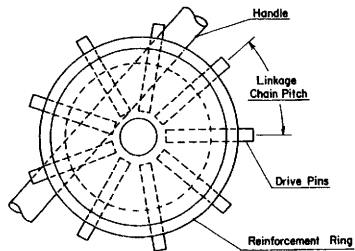
DESIGNED BY W.Smith    DRAWN BY W.Gensel    APPROVED BY \_\_\_\_\_    SCALE 1 inch = 1 foot    DRAWING NUMBER **5**



**NOTE:** Replace Bearings Whenever Play Exceeds 1/2"

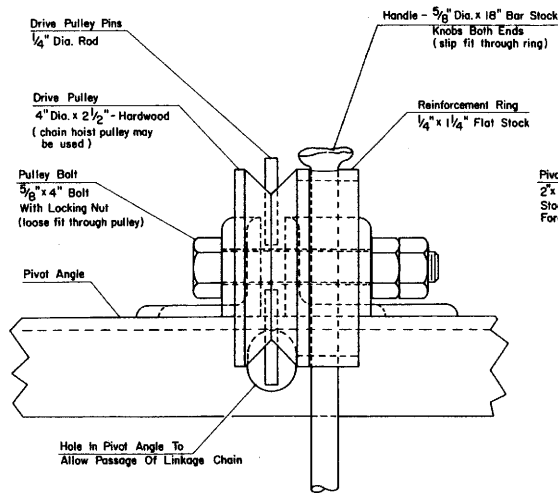
**Top View - Lever End Pivot**  
Optional Grease Cup Omitted

	PROJECT TITLE				
	24 Ft. Dia. Sailing Windmill				
	DRAWING TITLE				
	Pump Lever Pivot Point Assembly With Lower Connecting Rod Pivot Point Assembly				
DESIGNED BY	DRAWN BY	APPROVED BY	SCALE	DRAWING NUMBER	
W.Smith	W.Gersel			6	



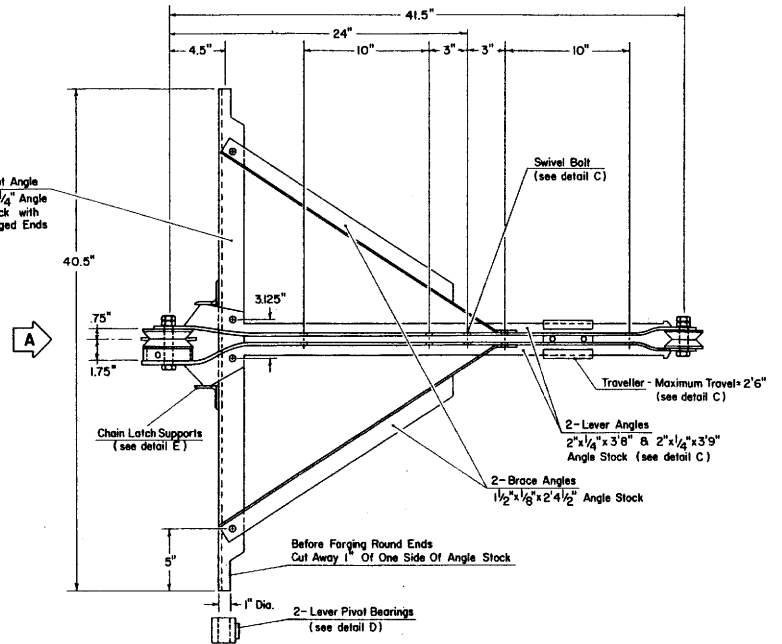
**Detail A - Linkage Drive Pulley**

Side View Scale: Full Size



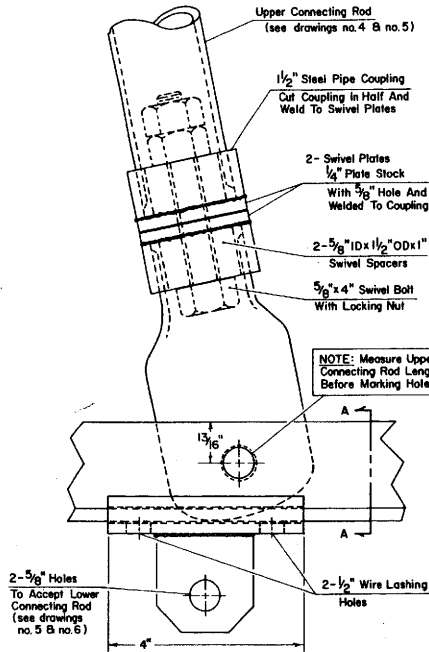
**Detail B - From View 'A' - Drive Pulley**

Linkage Chain & Chain Latch Omitted Scale: Full Size



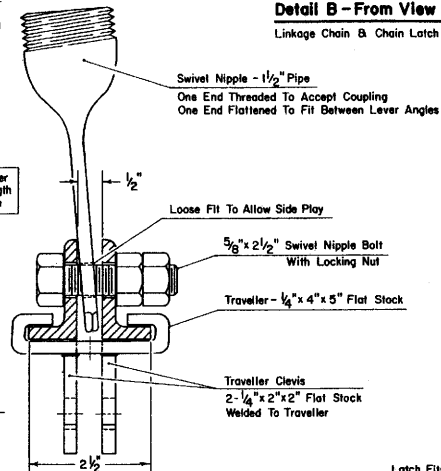
**Top View - Assembly**

Linkage Chain & Chain Latch Omitted Scale: 3 inches = 1 foot

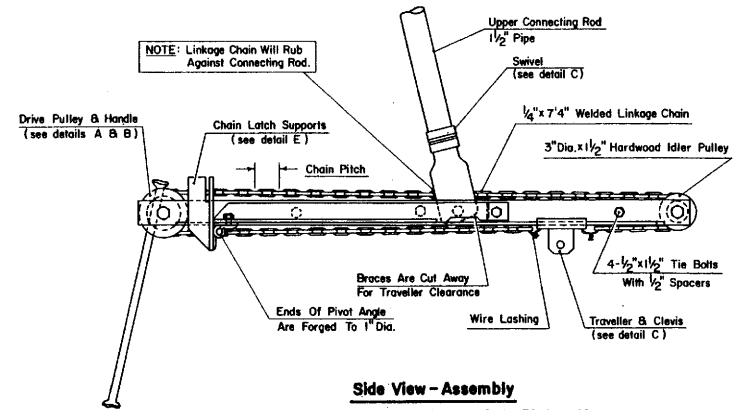


**Detail C - Traveller and Swivel**

Side View Scale: Full Size

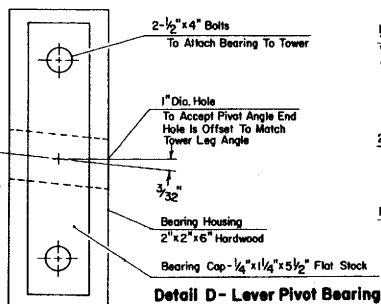


Section View A-A



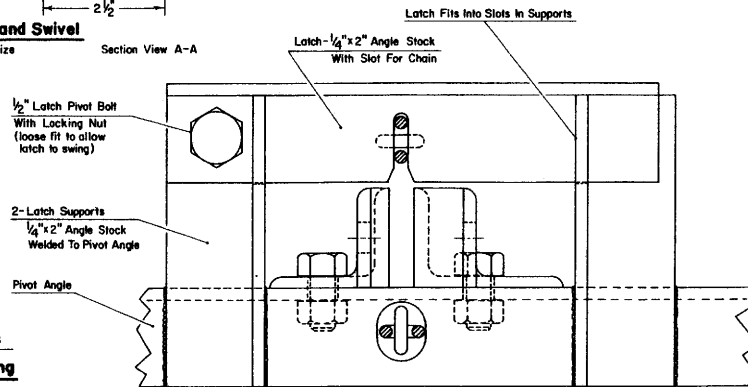
**Side View - Assembly**

Chain Latch Omitted Scale: 3 inches = 1 foot



**Detail D - Lever Pivot Bearing**

2 Required Scale: Full Size



**Detail E - From View 'A' - Linkage Chain Latch**

Drive Pulley Omitted



PROJECT TITLE  
**24 Ft. Dia. Sailing Windmill**

DRAWING TITLE  
**Variable Stroke Lever Assemblies & Details**

DESIGNED BY: W. Smith DRAWN BY: W. Gensel APPROVED BY: SCALE: DRAWING NUMBER: 7