



**DOUBLE ENTRY
30' BLUE COVERED CART CORRAL
(PART NUMBER 8030401)**

**PACKING LIST
AND
ASSEMBLY INSTRUCTIONS**

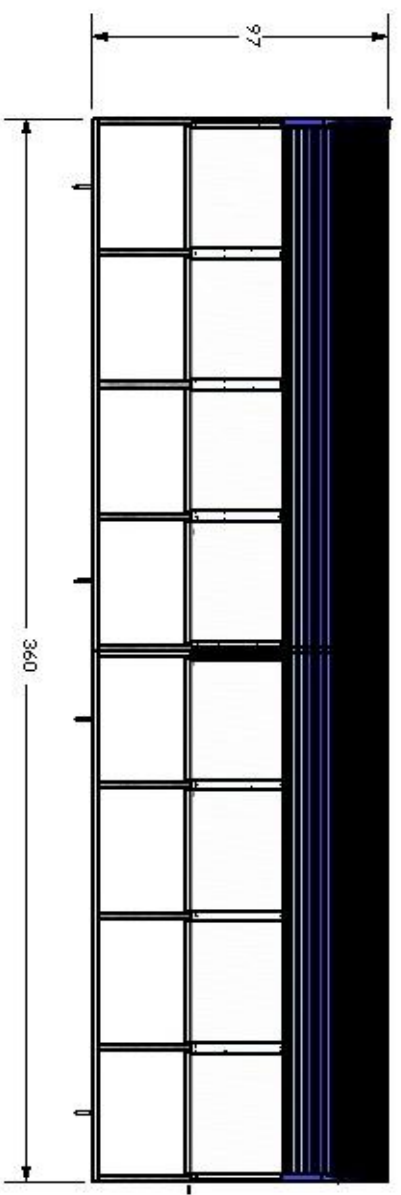
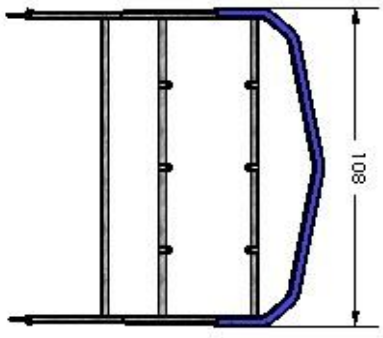
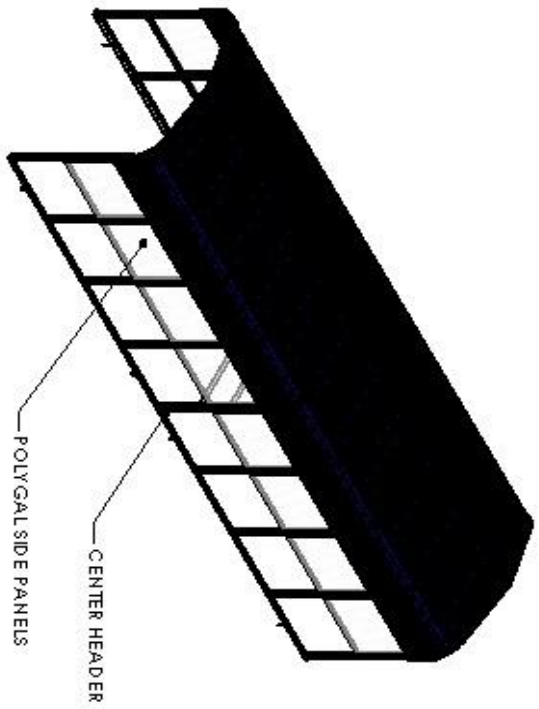
NE NATIONAL CART CO.

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(800) 455-3802
www.nationalcart.com

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REV EDITIONS				
REV.	DESCRIPTION	DATE	APP.	ECR
A	INITIAL RELEASE	11/29/2011	RLM	



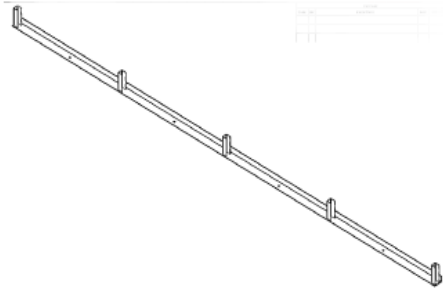
MATERIAL SEE DETAILS	CRITICAL DIMENSIONS ARE CIRCLED	DIMENSIONS ARE ENGLISH		 THIRD ANGLE PROJECTION		 NATIONAL CART CO. 3125 BOTSCHER TOWN RD. ST. CHARLES, MO 63301 PHONE: 636-341-9800 FAX: 636-341-5244	
FINISH TYPE:	TOLERANCE UNLESS OTHERWISE NOTED	DATE	NAME	DWG. NO.	WEIGHT	SHEET	REV
COLOR:	ANGULAR $\pm 1^\circ$	11/29/11	RLM	8030401	157.28 LBS	1011	A
	X $\pm .125$ (1/8)						
	XX $\pm .063$ (1/16)						
	XXX $\pm .032$ (1/32)						
	XXXX $\pm .016$ (1/64)						
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<small> TITLE: CC-COVERED CART CORRAL 30' BLU TOP </small>							

QTY

1

PACKING LIST

<u>Item</u>	<u>Part #</u>	<u>Description</u>	<u>Qty.</u>
A	2030144	BASE ANGLE ASSEMBLY	4



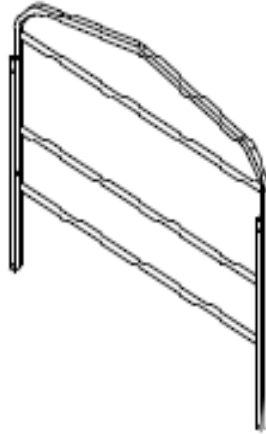
B	3030420	RUB RAIL, 1/4X2X42.5"	16
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C	3030416	HEADER HOOP, 105"X96.63	8
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<u>Item</u>	<u>Part #</u>	<u>Description</u>	<u>Qty.</u>
D	1030002	CENTER HEADER ASSEMBLY	1



E	B000274	BLUE MAXI RIB STEEL SHEET 29GA 38.50x180"	8
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F	R001120	J-CHANNEL, ALUMINUM	4
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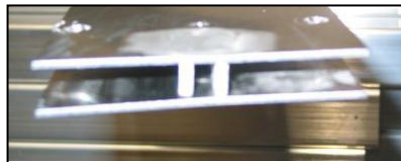
<u>Item</u>	<u>Part #</u>	<u>Description</u>	<u>Qty.</u>
G	B000277	OUTSIDE ANGLE TRIM, BLUE	2



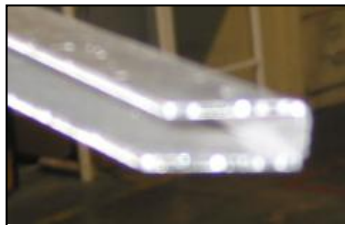
H	B000971	POLYGAL PANEL 31.75" X 44" CLEAR	16
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I	3030425	H-CHANNEL,ALUMINUM 31.5" W/DRILLED HOLES	12
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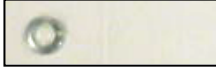







J	3030426	C-CHANNEL,ALUMINUM 31.5" W/DRILLED HOLES	8
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15' HARDWARE KITS:

2 of following kits:

	<u>Hardware</u>	<u>Qty. per kit</u>	<u>Part #</u>
HEADER ASSY. HARDWARE KIT			
K	HEX HEAD SCREW, 3/8-16 x 2-3/4" GR5 ZN	16	B000181
			
L	FLAT WASHER, 3/8 x1 x 7/16" USS ZN	32	B000068
			
M	SPLIT LOCK WASHER, 3/8" ZN	16	B000069
			
N	HEX NUT 3/8-16 UNC GR5 ZN	16	B000057
			
RUB RAIL ASSY. HARDWARE KIT			
O	HEX HEAD SCREW, 3/8-16 x 3-1/4" GR5 ZN	16	B001050
			
L	FLAT WASHER, 3/8 x1 x 7/16 USS ZN	32	B000068
			
M	SPLIT LOCK WASHER 3/8" ZN	16	B000069
			
N	NUT HEX 3/8-16 UNC GR5 ZN	16	B000057
			

BASE PLATE ASSY. HARDWARE KIT

P FLAT WASHER, 1/2 x 1.38 x 9/16" USS ZN

16

B000075



Q J-BOLT, 1/2-13x8", (2" HOOK)

8

B000217



R HEX NUT, 1/2-13 UNC GR5 ZN

8

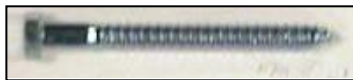
B000077



S LAG SCREW, 1/2 x 5.0" ZN

8

B000108



METAL ROOF HARDWARE KIT

T TEK SCREW #12 x 1.0" BLUE W/GROMMET

290

B000278



U GASKET TAPE 3/32" x 3/8 "x45 FEET

1



POLYGAL ATTACHMENT HARDWARE KIT

V HEX HEAD SCREW 1/4-20 x 1.0" GR5 ZN

128

B000259



W SPLIT LOCK WASHER, 1/4" ZN

128

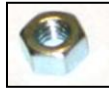
B000178



X HEX NUT, 1/4-20 UNC ZN

128

B000557



DOUBLE-ENTRY COVERED CART CORRAL ASSEMBLY INSTRUCTIONS

LETTERS CORRESPOND TO ITEMS AS SHOWN IN PACKING LIST

Required Tools:

5/16" Nut driver	9/16" hand wrench
Power drill	9/16" socket wrench
Tin snips	

BASE ASSEMBLY

1. Select a flat, level area to place corral, away from but not limited to curbs & storm drains.
2. Lay out 2 base angles (A) approximately 9' apart with sleeves facing to the inside. Lay out 2 more base angles (A), end-to-end, and parallel to the first two.



HEADER ASSEMBLY

3. Place header/sign assembly (D) onto the two sleeves in the center of the unit, position H5 (**Diagram A**). You will be joining the two 15' base plates together. You must remove the 3/8-16 x 5" HHCS at the bottom of each leg of the header assembly, place over the sleeves and reattach the bolts.



4. Place remaining headers (C) over sleeves at positions H1, H2, H3, H4, H6, H7, H8 & H9 (**Diagram A**) on base angles (A). Secure with components from header assembly hardware kit (K, L, M, N), do not tighten bolts.



RUB RAIL ASSEMBLY

5. Place one rub rail (B) between 2 headers with flat side to the inside of the corral. At the entry points of the corral attach the end of the rub rail with; 3/8 x 2-3/4 HHCS, 3/8 flat washer, lock washer and hex nut (photo A). Place a second rub rail between the 2 headers next to the rub rail that was just installed. Secure the open end of the first rub rail and the end of the second rub rail with the same hardware. Repeat in all openings between headers.



photo A

6. Check cart corral and square up if necessary. Then go back through completed framework and tighten all joints.

METAL ROOF ASSEMBLY

7. Lay out edge of first maxi rib panel (E) at top of header (C) flush at location H1 but overhanging at location H5, with rib centered over peak. Take note that one side of the maxi rib panel (E) has a longer flange than the other side. The “shorter” side is the side that you want to end up as the exposed side of the maxi rib panel on the side of the unit. This will be the end that will go into the “J” channel in step 12. Secure with one #12 x 1.0” tek screw, self drilling at locations H1 and H5 in center of header (**Diagrams A & B**).



8. Over-lap second maxi rib panel (E) on side opposite of first panel and secure on both sides of overlap joint with #12 x 1.0” tek screws (**Diagram A**). Take note that one side of the maxi rib panel (E) has a longer flange than the other side. The “shorter” side is the side that you want to end up as the exposed side of the maxi rib panel on the side of the unit. This will be the end that will go into the “J” channel in step 12.
9. Repeat step 7 for third and fourth (lower) maxi rib panels (E), but be sure that upper panels overlap lower panels so water will run off to the outside. Again, make sure that the “shorter” side of the maxi rib panel is toward the ground.
10. Lay down gasket tape across width of all panels at location H5 (center of unit) 1” from panel end to tape edge line and following panel profile. Repeat steps 7 and 8 for other end, with panels flush with header at location H9 (opposite entry end). NOTE: Be sure to remove tape liner.



11. Check to see that all maxi rib panels (E) are flush with headers (C) at locations H1 and H9. If flush, secure as directed (**Diagram B**). If not flush, adjust (square up) complete frame assembly to get panels flush, then secure as directed. Note: Leave the third and fourth bottom panels free to allow installation of “J” channel.

12. Install one “J” channel (F) per 15’ section, repeat on other 15’ section, secure at locations H1 through H9, using #12 x 1” tek screws making sure that the screws are passing through the maxi rib panel (E), the “J” channel (F), and the header (C). Also, make sure that the maxi rib panel is inside the “J” channel.



13. Repeat step 12 for opposite side of corral.

POLYGAL ASSEMBLY

14. A. Place one “H” channel (I) into “J” channel (F) at every location except both entry ends or the center locations (header/sign assembly). Making sure that the “H” channel (I) is all the way up in the “J” channel and centered with the header. Secure through the top hole of the two pre-drilled holes in the center of the “H” channel.

DO NOT OVER TIGHTEN



- B. Making sure that the “H” channel is centered on the header put the second screw in the bottom hole.

DO NOT OVER TIGHTEN



- C. Put “C” channel (J), for polygala, over one end of a polygal panel (H) and slide up through one end of the “H” channel and secure “C” channel on entry end header with tek screw through small (5/16”) hole in top of “C” channel.

DO NOT OVER TIGHTEN



- D. Drill Through 5/16” hole and through the polygal panel using 5/16” hole in ”C” and “H” channels as a guide.



- E. Secure polygal through the pre-drilled holes in the “H” and “C” channels with the 1/4”-20 x 1” HHCS (V), 1/4” lock washer (W) and 1/4” hex nut (X). There will be eight holes per piece of polygal. Repeat the use of the “C” channel on the two entry ends of the cart corral and the two center sections.



F. Secure polygal panels with the hardware provided



F1



F2 (inside of unit)



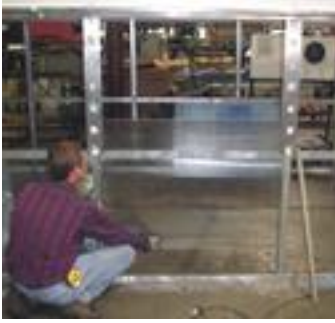
F3

G. There will be two “C” channels facing back to back on the header/sign assembly. At this point there will be 4 polygal panels up, all with a “C” channel on one end.



Center of Unit

H. Slide the remaining polygal panels up through each side of the remaining “H” channels and secure with ¼”-20 x 1” HHCS.



15. Repeat step 14 for opposite side of corral.

FACIA ASSEMBLY

16. Install fascia (G) to header (C) at location H1 (**Diagram B**). Cut center face in length of fascia (G) with tin snips. Align the cut with peak of header (C). Bend both sides of fascia (G) down to conform with shape of header (C). Secure lap joint at peak of header (C) with #12 x 1.0” tek screw in face. Repeat above procedure for all bends. (NOTE: lap joint should allow water to run down the outside of unit.) Cut fascia (G) to length after last bend and secure with #12 x 1” tek screws. Put two additional tek screws in face of fascia (G), centered in flats between long legs of bend (total of 9 screws on face). Secure top side of fascia (G) with #12 x 1.0” lap tek screws where maxi rib panels (E) and fascia (G) come together at each bend, at each end, and at second rib from peak on each side (total of 9 screws on top side).

17. Repeat step 16 for location H9.

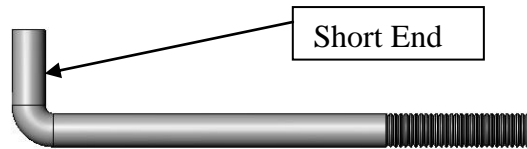
ANCHORING CORRAL

ASPHALT SURFACE (Using “J” Anchors)

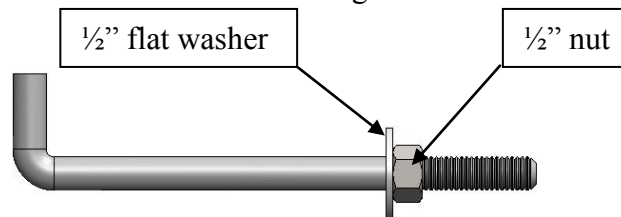
Required Tools:

9/16” hand wrench Power drill
9/16” socket wrench Pry bar
8” dia. Core drill (for anchoring)

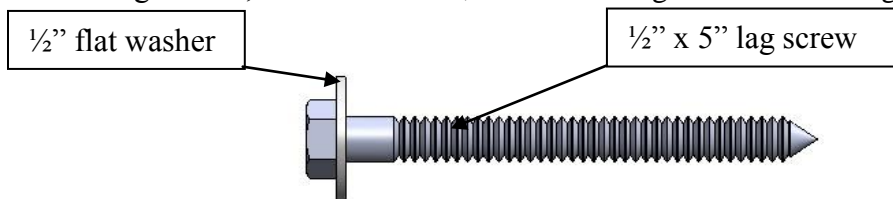
1. Position cart corral in desired location.
2. Marks holes onto lot surface, at positions A1, A4, A5 & A8 (double entry cart corral) or A1 & A4 (single entry cart corral) on both sides of corral. (**Diagram A**)
3. Use pry bar to move unit at least 10” sideways.
4. Using a core drill, drill a 8” x 24” deep hole at each position. It will be necessary to drill below the established frost line, if it is deeper than 24”.
5. Clear hole of all loose debris.
6. Fill holes with quickset concrete.
7. Pry unit back to correct location.
8. Place short end of “J” anchor into the quickset concrete through the hole in base angle (A).



9. Place 1/2” flat washer and 1/2” nut on 1/2 - 13 “J” anchor. Tighten nuts after concrete has cured.



10. Drive 1/2” x 5” lag screws, with 1/2” washer, thru remaining holes of base angle (A).



NOTE: Some municipalities may require additional anchoring to meet their code. Additional Anchors may be purchased from National Cart to meet these needs. Call National Cart at: 1-(800)-455-3802

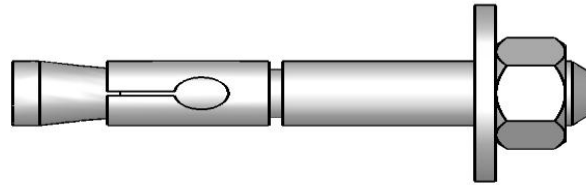
CONCRETE SURFACE

NOTE: Use ½" X 5 ½" wedge anchors (provided by others) when installing on a concrete surface.

Required Tools:

9/16" hand wrench	Power drill
9/16" socket wrench	Pry bar
Hammer	1/4" Twist & 8" dia. Core drill (for anchoring)

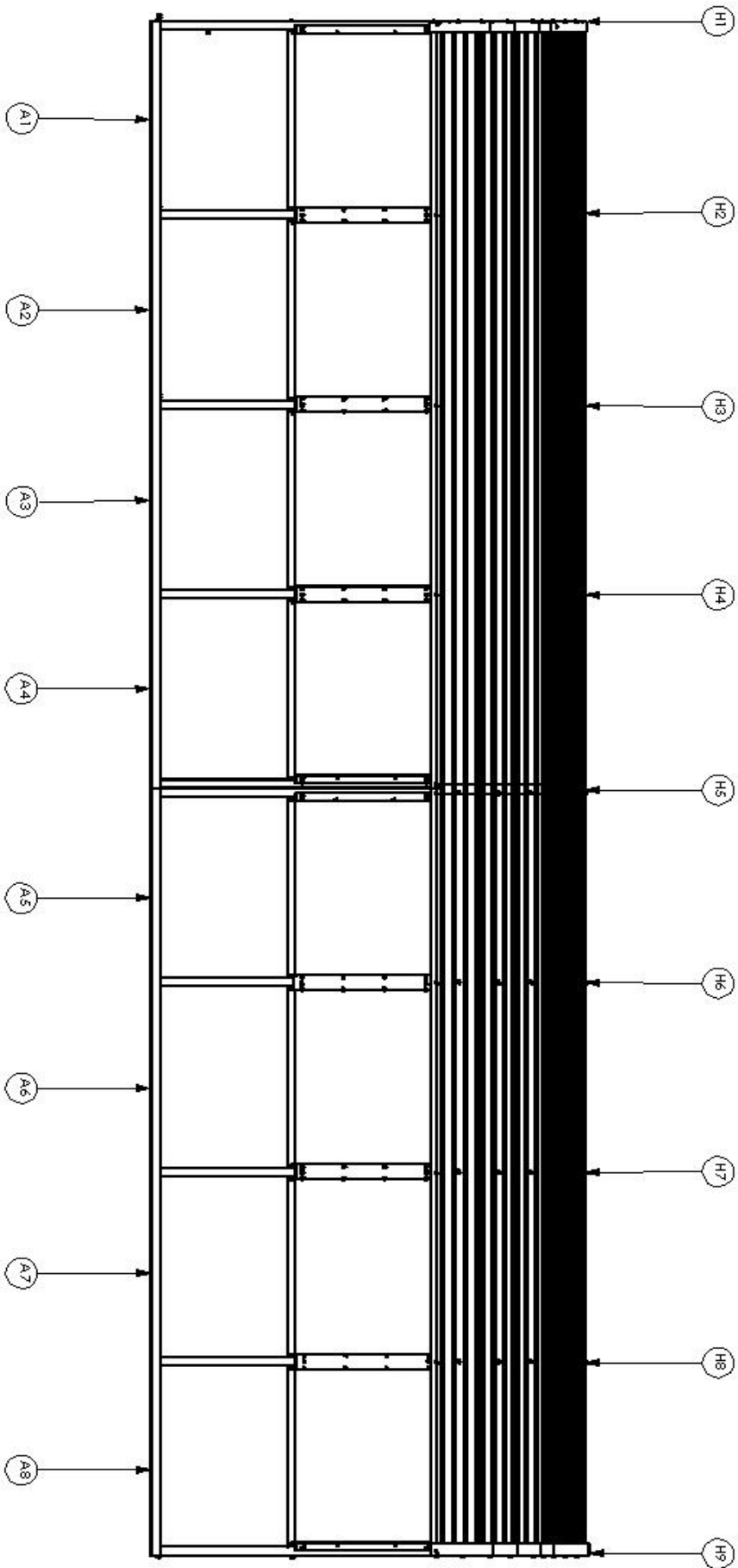
1. Position cart corral in desired location.
2. Mark holes onto lot surface, at positions A1 through A8 (double entry cart corral) or A1 through A4 (single entry cart corral) on both sides of cart corral. **(Diagram A)**
3. Use pry bar to move unit at least 10" sideways.
4. Using ½" Concrete drill bit, drill 6" into the concrete surface, at each marked position.
5. Pry unit back into correct location.
6. Before inserting the wedge anchor into the hole, add the washer and thread the nut a few turns.

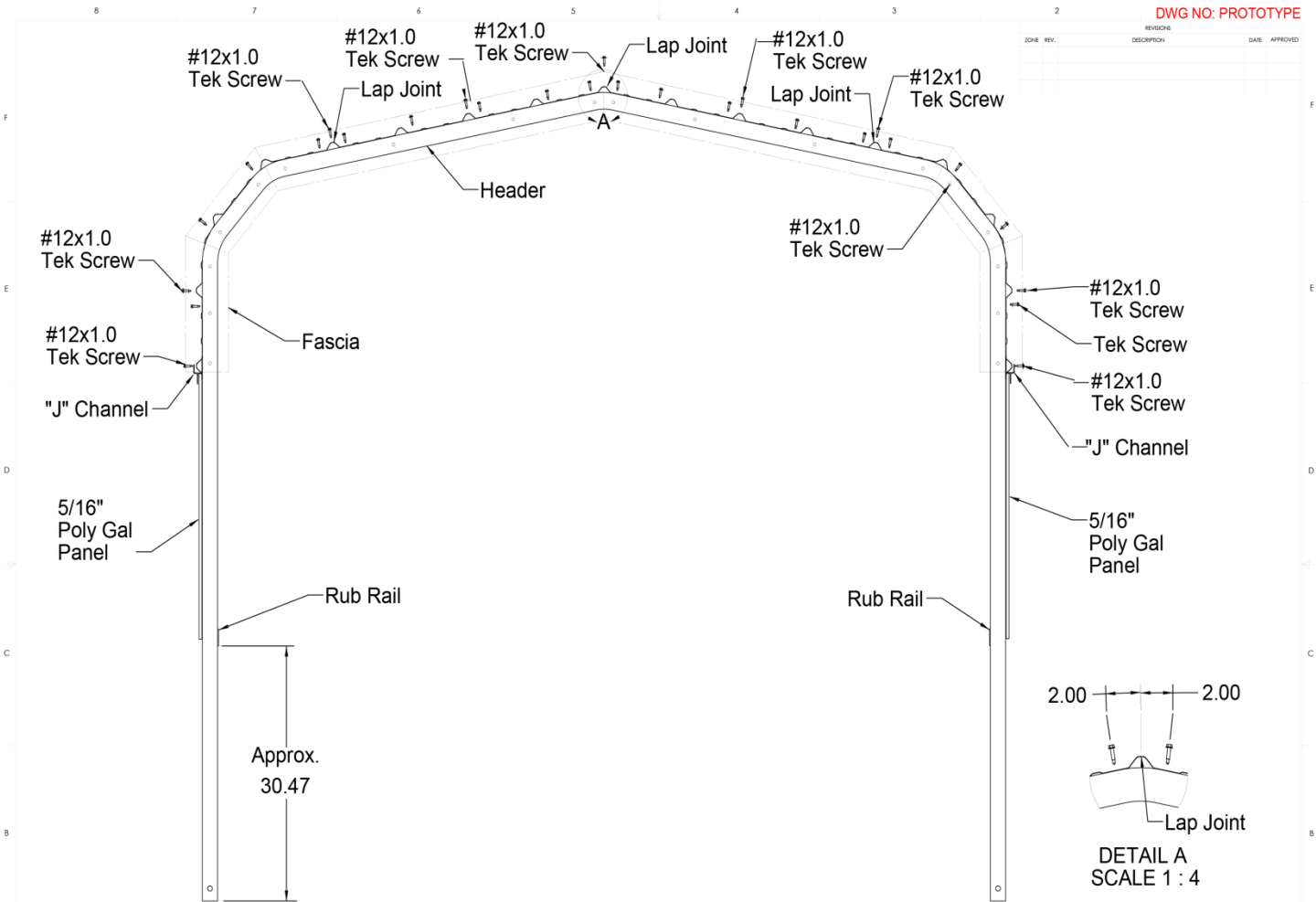


7. Carefully hammer the anchors into each hole, ensuring that the washer is fully engaged with the surface of the base plate.
8. Tighten all nuts using until the wedge anchor is fully engaged.


NOTE: Some municipalities may require additional anchoring to meet their code. Additional Anchors may be purchased from National Cart to meet these needs. Call National Cart at: 1-(800)-455-3802

DIAGRAM A





- Notes:
- 1) Recommended Fastner Location:
 At base, eve, ridge & lap: 2" on each side of major rib as shown in detail A.
 At intermediate support: 2" on each side of major ribs.

UNLESS OTHERWISE SPECIFIED:				NATIONAL CART CO. 3125 BOSCHERTOWN RD., ST. CHARLES, MO. 63301 PHONE: 636-947-3800 FAX: 636-723-4477	
DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH 2 BEND 2 TWO PLACE DECIMAL .125 THREE PLACE DECIMAL .063 FOUR PLACE DECIMAL .032		DATE: 09/26/06 NAME: SWR	TITLE: Covered Cart Corral With Polygal Side Panels		
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