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# MEAL DELIVERY SYSTEM

NORTH CAROLINA COUNTY SCHOOL PROJECT



# PROJECT PARAMETERS



## Project goal

- Transition from cafeteria feeding to classroom delivery feeding
- Tray up meals into Styrofoam clamshells
- Insulated carts with possibility of adding heat later to maintain food temperature
- Where possible, consolidate multiple delivery locations to reduce number of carts needed
- School Start Date of Aug 17th

## Requirements & Details

- Serve food at acceptable temperatures
- Feed in 3 schools with 850, 400 and 300 students
- Adults will be transporting food in carts, seeking low profile and easy to push cart across tile floors
- Possible need for tow hitch and tuggers

## Overall recommendation

- Consider two alternatives to choose from
  - Transport Clamshells using Ambient Carts (with option to convert to heat)
  - Transport Clamshells using Heated Carts

## Capacity assumptions

- Needed cart capacity based on total count of 1550 students

# OPTION #1 STACKING CLAMSHELLS IN AMBIENT CARTS



1. Tray up in kitchen into Styrofoam clamshell.




2. Put stack of trays in cart  
- stack 5 high on floor and 5 high on mid-shelf



3. Put cold items and drink service, on top of cart and push to buildings & classrooms to hand out lunches



# OPTION #1 CART OPTIONS

Cart	Model	Description	Capacity* (meals)
	JZA-168 XL	Ambient Insulated Cart with option to add heat	150

\* Based on Standard size clamshells

## Key features for this cart

- Insulated 2 door ambient cart
- 304 series stainless steel construction
- 6-side full insulation
- Mission Ready technology (easy to add heat later)
- No gasket magnetic door closure
- Top rail for beverage / misc. transport
- Full perimeter bottom bumper
- Can see over during transport
- Solar powered digital thermometer
- Sanitary. Easy to clean to 'like new'
- UL, NSF certified
- 1yr warranty – parts and labor

\*\* Note: JZA-168 XL is 32.5" wide. Need to confirm that the cart will fit all doorways and openings in the route that the cart will take

# OPTION #2 STACKING CLAM SHELLS IN HEATED CARTS



1. Tray up in kitchen into Styrofoam clamshell.
4. If early or there is a disruption, plug cart back into a 120v outlet until time for meal service

2. Preheat cart for 30-45min. Put stack of trays in cart keeping doors closed as much as possible. Let cart recover heat for 15 min prior to unplugging and moving.
5. Hand out trays to each classroom, closing doors in between deliveries to maintain temps.

3. Put cold items and drink service, on top of cart and push to buildings & classrooms

See video at

<http://www.joneszylon.com/Media/Jones-Zylon-%20Mission%20Ready.mp4>



# OPTION #2 CART OPTIONS

Cart	Model	Description	Capacity* (meals)
	JZH-168 XL	Heated Cart	150

\* Based on Standard size clamshells

### Key features for this cart

- All heated cart
- 304 series stainless steel construction
- 6-side full insulation
- Mission Ready technology (easy repairs, if needed)
- No gasket magnetic door closure
- Top rail for beverage / misc. transport
- Full perimeter bottom bumper
- Can see over during transport
- Solar powered digital thermometer
- Sanitary. Easy to clean to 'like new'
- UL, NSF certified
- Standard 120 volt, 20 amp
- 1yr warranty – parts and labor



Repurpose these carts when pandemic situation is over

Can be used as kitchen Hot Box.  
Will hold 28 bulk pans (12x20x4)

\*\* Note: JZH-168 XL is 32.5" wide. Need to confirm that the cart will fit all doorways and openings in the route that the cart will take

# SUMMARY



CART TYPE	# MEALS PER CART	TOTAL NEEDED **
Heated Carts	150	12
Tow Package		10
Tugger		4
Spare Heater		1



Middle School



High School



Elementary School

- \*\* Total Carts needed based on schools with 850, 400 and 300 students would need 6, 4 and 2 carts, respectively
- \*\* Total Tow Packages needed based on 6 carts for middle school and 4 carts for high school (none for elementary)
- \*\* Total Tuggers needed based on 2 tuggers for middle school and 2 tuggers for high school

# CART OPTIONS



Tow package and a tugger

<https://www.youtube.com/watch?v=INlzJKdLRk>



Spare heater



Fold down exterior shelf



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