

DRAFT

Warranty Inspection Report

Project Ledyard School - Gales Ferry.

This inspection was performed to determine if any visual deficiencies exist. Work not yet complete or covered that cannot be inspected for compliance is the responsibility of the installing contractor.

Project No. G-39041 Inspection _____

For insurance purposes, a copy of this report is being forwarded to the general contractor and architect for the project.

Inspected by Michael Boland

STATUS UPON COMPLETION OF THIS INSPECTION:

Inspection Date & Time Nov 13, 2024 11:00:00 AM

NO VISIBLE DEFICIENCIES:
Report submitted for the record.

Installer The Imperial Company

MINOR DEFICIENCIES NOTED:
See report for details.

Installer Office Contact Bruce Raulukaitis

Installer Field Contact Bruce Raulukaitis

MAJOR DEFICIENCIES NOTED: See report for details.
Immediate action required. Submit action within 24 hours of notification. Non-complying work cannot be warranted and may jeopardize issuance of project warranties.

Other attendees at inspection _____ Company _____

Bruce The Imperial Co.

Wayne Donaldson Ledyard School District

Jeremy Cogdill Garland

ACKNOWLEDGEMENT:

I, _____ of _____ hereby acknowledge receipt of this report and certify that items requiring action are either complete or will be complete prior to the next inspection and/or closeout of the project.

General Contractor _____
Attn _____ email _____
Address _____
City _____ State _____ Zip _____

Architect Silver Petrocelli & Associates
Attn _____ email _____
Address 3190 Whitnew Ave
City Hamden State CT Zip 06518

The following check list and photos (if included) are based on the above mentioned field inspection. Areas inspected may include on-going construction as well as completed areas and may not include all areas due to access limitations, weather conditions, etc.

The work is considered satisfactory when the checkbox indicates "yes".

When a checkbox indicates "not able to verify", it is the responsibility of the installer to ensure that the item in question is in accordance with the shop drawings, accepted sheet metal practices

The work is considered non-satisfactory and is to be corrected when the checkbox indicates "no".
Additional information for making the corrections may be available in the notes and photo portion of this inspection report.

PANEL & CLIP SYSTEM	Is the panel fix point located according to the roof plan? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.	Is the seam reinforcement trim installed in locations specified by the zone plan & mechanically seamed to the panel? <input type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.
	At fix clips, are the clip bases pinched closed to restrict sliding and 1/4" stainless steel nuts & bolts with bonded washers utilized? <input type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.	Are keyhole closures installed correctly on eaves and valleys? <input type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.
	Are bearing channels / bearing plates installed correctly? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.	Are all sealant types utilized in the installation approved? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.
	At the opposite end of the fix point, is there accommodation for thermal expansion of the panels? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.	Are all underlayment types utilized in the installation approved? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.
	Are the clips and clip fasteners properly spaced and the fasteners driven fully into clip recess? (Gable clip is 24" o/c. See plans for panel clip spacing.) <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.	Are all exposed fasteners stainless steel or aluminum? <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input checked="" type="checkbox"/> not able to verify cond.
	Do the clip fasteners penetrate the substrate as indicated on the panel assembly sheet of the shop drawings? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.	Does it appear that adjacent building areas have components that are compatible (No dissimilar metal components touching or above.) <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.
	Are the clips installed without washers? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.	Is the Lightning Protection System compatible with the inc. roof system? (No dissimilar metal components & the clamps do not penetrate panels.) <input type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.
	Are all panels fully mechanically seamed? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/> not able to verify cond.	Is the Snow Guards compatible <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input checked="" type="checkbox"/> not able to verify cond.

RIDGE / PEAK / HEADWALL	Are the panels pan-ended?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.
	Are the factory supplied closure systems used and installed according to the shop drawings?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.
Are the correct sealant/ fastener types & spacing used according to the shop drawings?	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	
Does the ridge flashing accommodate thermal movement? (Flashing expansion joint.)	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	

HIPS	Are the ends of the hip flashing neatly capped off at eave corners?	<input type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.
	Are the factory supplied closure systems used and installed according to the shop drawings?	<input type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.
Are the correct sealant/ fastener types & spacing used according to the shop drawings?	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	
Does the hip flashing shed water properly? (4" lap joints in direction of flow. No fasteners at lap for expansion relief)	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	

EAVES & GUTTERS	Is the stepped eave installed according to the shop drawings? (If applicable.)	<input type="checkbox"/> yes	<input type="checkbox"/> no
		<input checked="" type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.
	Is the gutter system and gutter straps independent from the panels?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.
Are the correct sealant/ fastener types & spacing used according to the shop drawings?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.	
Do the gutters accommodate thermal movement? (Gutter expansion joint.)	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input checked="" type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.	

VALLEYS	Has ice & water shield been installed a minimum of 36" upslope on each side of valley?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.
	Do all 4" minimum valley laps utilize sealant? (Fasteners are unnecessary.)	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.
Are the correct sealant/ fastener types & spacing used according to the shop drawings?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.	
Are the ends of the valley flashing neatly capped off at eave corners? (Diverter should be capped with sheet metal, not plugged with foam.)	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.	

PIPE PENETRATIONS	If the pipe is fixed to the structure, is the opening in the panel cut large enough to absorb the anticipated thermal movement of the panels?	<input type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.
	Does the boot provide enough clearance for drainage from above?	<input type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.
Has an approved rubber boot been installed according to the shop drawings?	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	
Are all rubber boots covered with a storm collar held with a stainless steel draw band?	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	

GABLES & SIDEWALLS	Are the correct sealant/ fastener types & spacing used according to the shop drawings? Do not fasten thru side of panel rib.	<input type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.
	Does the flashing shed water properly? (4" lap joints in direction of flow. No fasteners at lap for expansion relief.)	<input type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.
Does the flashing accommodate thermal movement at end caps?	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	
Are thru-wall flashings installed above the sidewall & counter flashing?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.	

CURBS & CRICKETS	Has ice & water shield been installed a minimum of 6' upslope and on each side of the curb penetration? Does the ice & water shield extend to the eave?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.
	Do the curb flashings remain independent of structural curbs to accommodate thermal movement of the metal roof system? (Curb flashing should be attached to and float with panel system.)	<input type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.
	At the high side of the curbs, are panels a minimum of 12" from the back of the curb base flashing to allow for drainage?	<input type="checkbox"/> yes	<input type="checkbox"/> no
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	
At the side of the curbs, are the adjacent panels a minimum of 4" from the side of the curb base flashing to allow for drainage?	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	
Is the approved curb utilized with the correct sealant/ fastener types & spacing according to the shop drawings? (2" sealant tape, sealant caulk, closed rivets between rear & side pans.)	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	

JOBSITE CONDITIONS	Are the panels & flashing stored properly? (Slope panels for drainage, cover bare (unpainted) material, vent ends, avoid wet ground. On roof, tie down against wind & brace against siding on steep slopes.)	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.
	Are the roof panels & gutters free from corrosive debris? (Nails, metal filings, chemical exhaust, etc.)	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
		<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.
	Is the roof free from other contractors building materials?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
	<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.	
Is the strippable film removed from all installed panels & flashings?	<input type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input checked="" type="checkbox"/> not able to verify cond.	
Is the foot traffic on the roof by other contractors restricted as to prevent damaged panels & flashing? (Block off areas or post do not step signs.)	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	
	<input type="checkbox"/> not applicable	<input type="checkbox"/> not able to verify cond.	

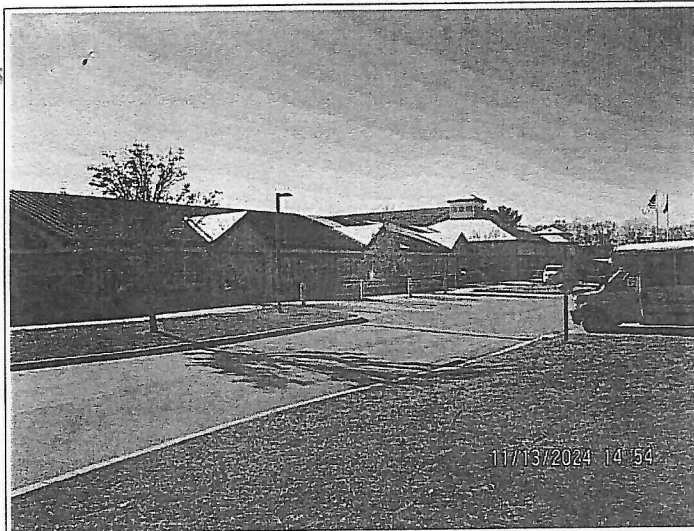
NOTES

Items marked "unable to verify condition" are tasks not yet started or finished for this inspection.

All previously installed panel clip screws must be removed due to short length. New red clip screws must be installed at all panel clips to fully engage both high and low flutes of the metal deck. To be verified from below.

All crates must be moved by means of use of a spreader bar with straps placed on packing frame to avoid damaging the panels in the crate. All panels damaged currently or in the future by mishandling of the crates or panels themselves will be required to be replaced at the handlers expense.

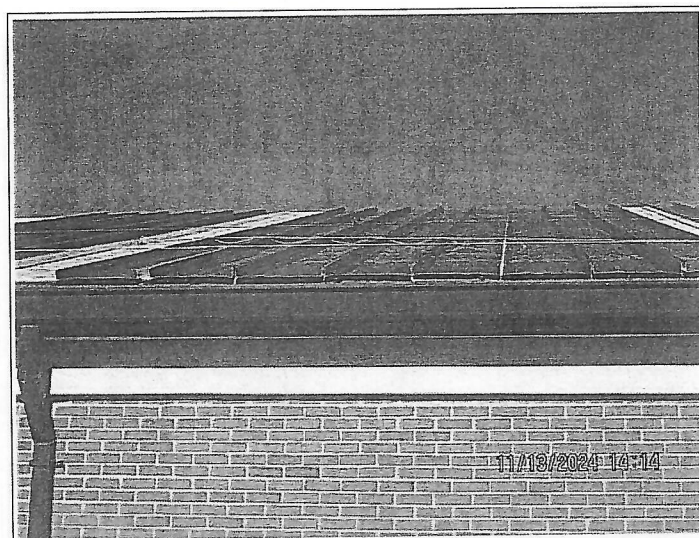
Panels and flashings finish has the potential to be damaged by rain run-off from the existing copper flashing.



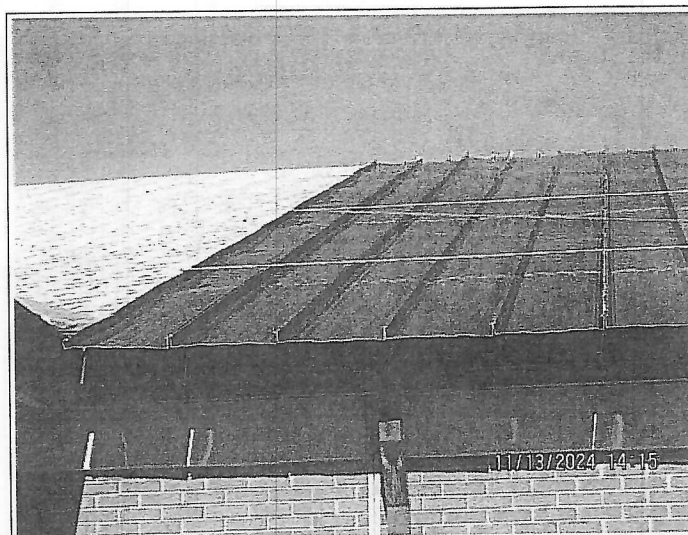
1. Overview of front of school.



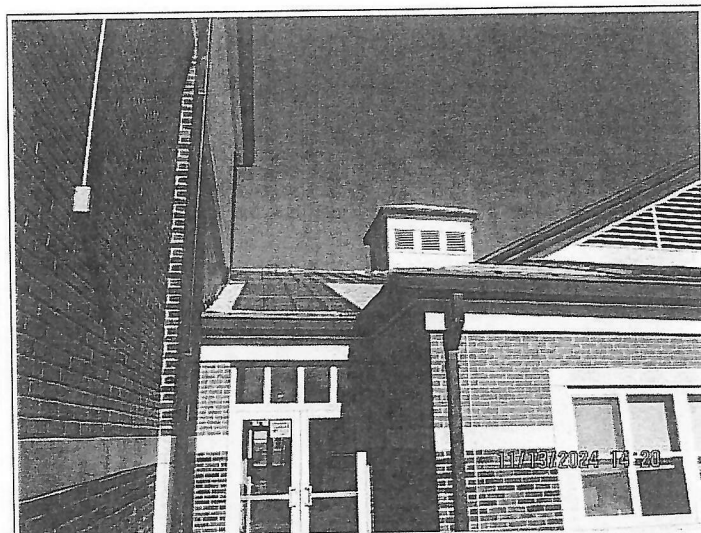
2. Staged panels have one screw securing them to the roof and are tied down. These panels are not considered installed. Staged panels should be installed as soon as possible as this may cause an unsafe condition.



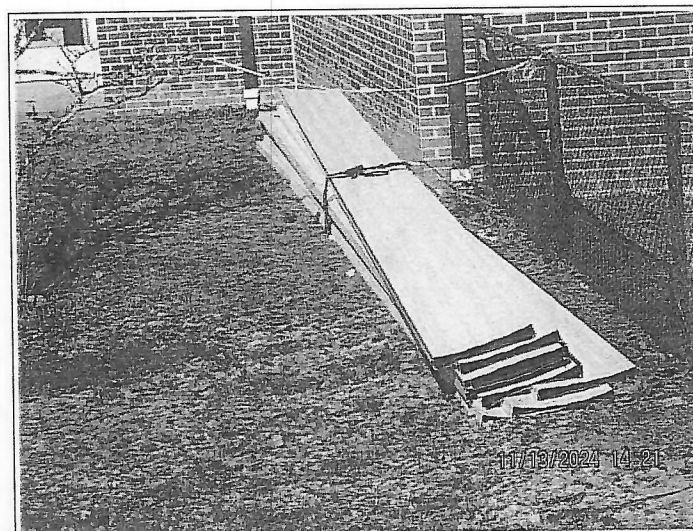
3. Staged panels have one screw securing them to the roof and are tied down. These panels are not considered installed. Staged panels should be installed as soon as possible as this may cause an unsafe condition. Back of main building between dormers. Panel ribs are not formed correctly and will be replaced by Garland.



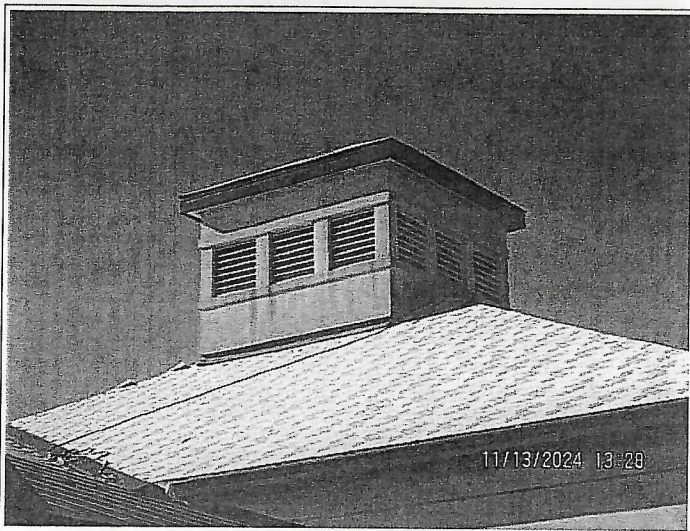
4. Staged panels have one screw securing them to the roof and are tied down. These panels are not considered installed. Staged panels should be installed as soon as possible as this may cause an unsafe condition. Back of main building between dormers. Panel ribs are not formed correctly and will be replaced by Garland.



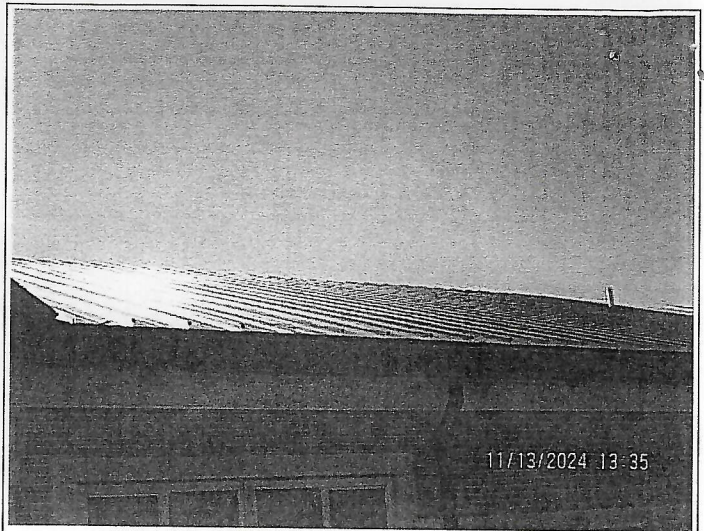
5. Staged panels have one screw securing them to the roof and are tied down. These panels are not considered installed. Staged panels should be installed as soon as possible as this may cause an unsafe condition.



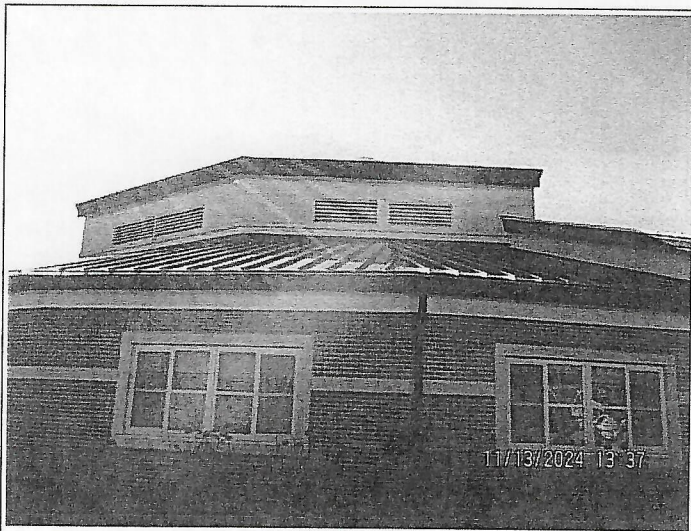
6. Improperly stored panels that have damage will be replaced at the installer's expense.



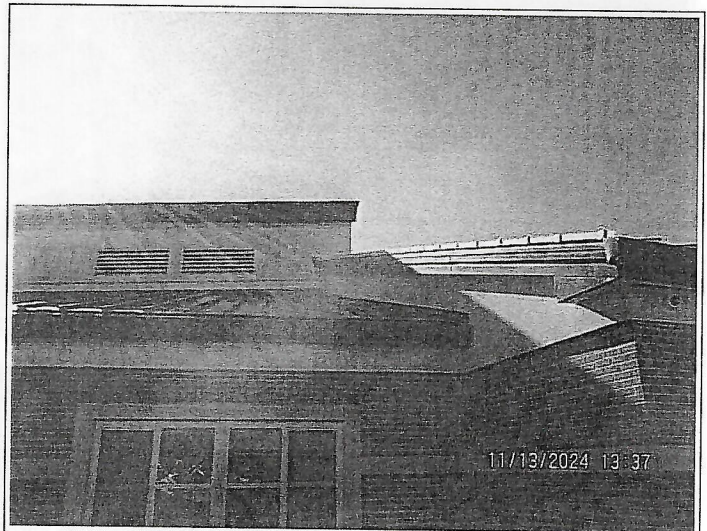
7. Front cupola. Headwall flashing will be tucked under existing flashing. Lined with a continuous bead of sealant and riveted with stainless steel, closed end rivets at 4" oc.. For the front section, a 16 ga plate will be secured to the existing framing. The sidewall/jamb flashing will be set in a continuous bead of sealant and secured to the 16 ga. plate. A new detail will be submitted separately.



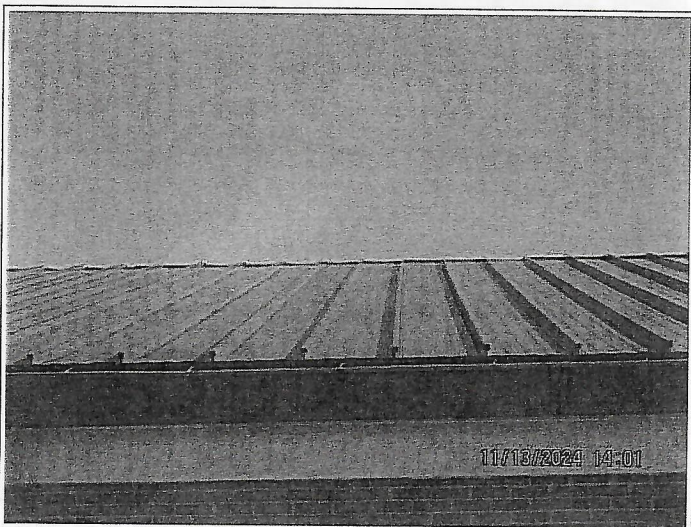
8. Currently installed panel clip screws must be removed and replaced with new, longer red screws to engage the metal deck at either the high or low flute. The new screws will be verified from below the deck.



9. Front octagonal roof. Panel ribs do not meet at the hip but are centered as with all similar roof sections. We will wait for direction from Wayne as to whether he wants the ribs to match or the panels to be centered. If the ribs must match at the hip, Garland will send replacement panel. Imperial will supply the labor as this condition should have been discussed previously.



10. Same location. The sidewall/jamb will be sealed using a hip assembly. The new flashing will be tucked under the existing, set in a continuous bead of sealant and riveted with stainless steel, closed end rivets at 4" oc..



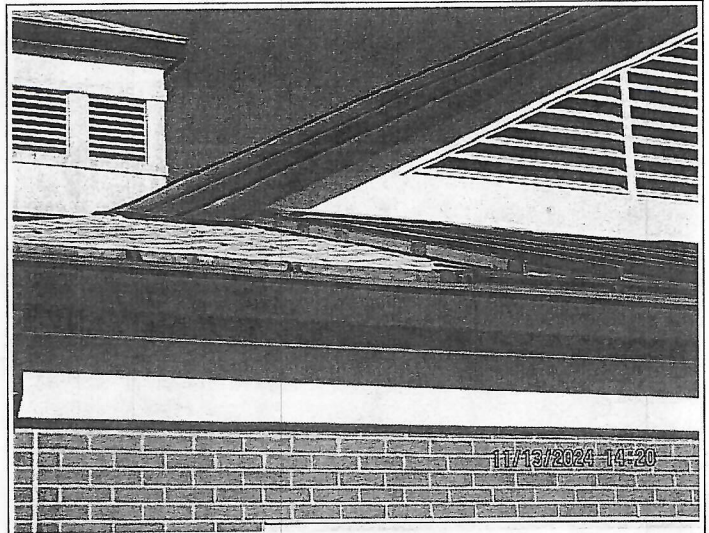
11. Rear wing at playground. Panels must be removed. A chalk line struck and panel clips centered on the chalk line. The panels must be clamped at each clip to remove the existing camber.



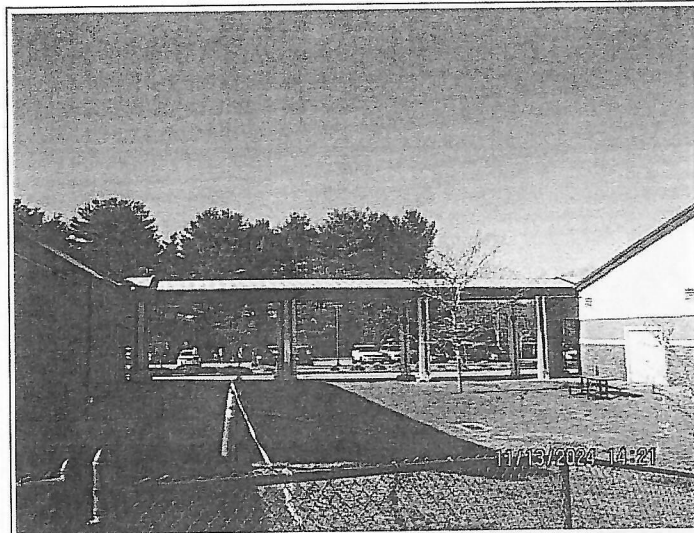
12. Same location. Gable clips must be installed at 17" in the 8' high pressure zone in the upper right corner. The remain gable clips are to be spaced at 20". Refer to the approved shop drawings.



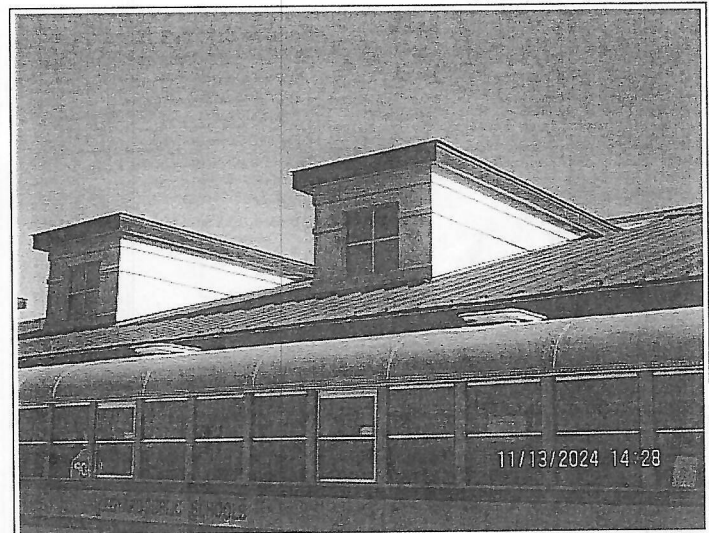
13. Dormer on back of main building. Panels are pan ended in compliance with shop drawings. Headwall flashing will be tucked under existing flashing, lined with a continuous bead of sealant and riveted with stainless steel, closed end rivets at 4" oc..



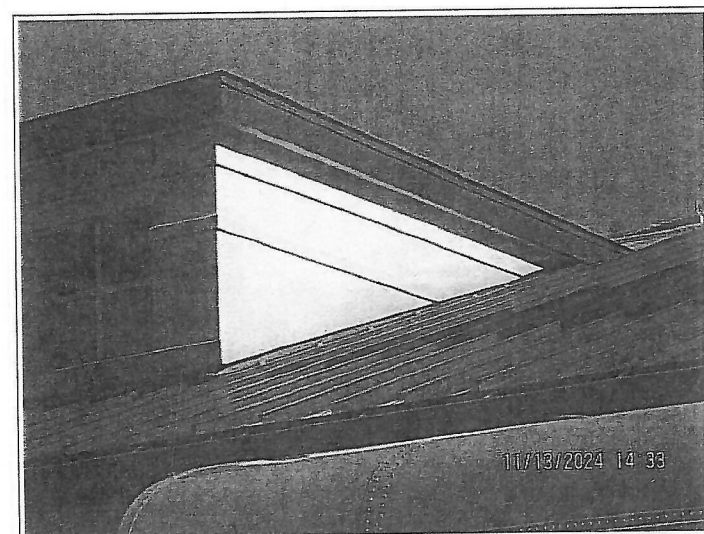
14. Same location. Panel clips are installed in compliance with shop drawings.



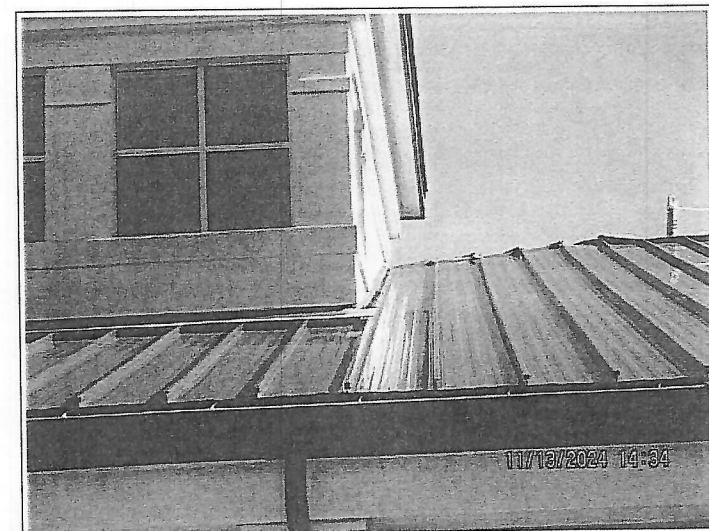
15. Walkway canopy substrate canopy is entirely covered with underlayment in compliance with shop drawings. It was agreed to drive a 1.5" screw through the deck to ensure it will not penetrate the finished underside. If the 1.5" screw does not penetrate the finished underside, 1.5" screws will be used to secure all gable clips in this area only.



16. Bus loading zone, right dormer. A 16 ga plate will be secured to the existing framing. The sidewall/jamb flashing will be set in a continuous bead of sealant and secured to the 16 ga. plate. A new detail will be submitted separately.



17. Bus loading zone, left dormer. A 16 ga plate will be secured to the existing framing. The sidewall/jamb flashing will be set in a continuous bead of sealant and secured to the 16 ga. plate. The Imperial Company will be responsible for removing EIFS to accommodate the new plate and flashing. A new detail will be submitted separately.



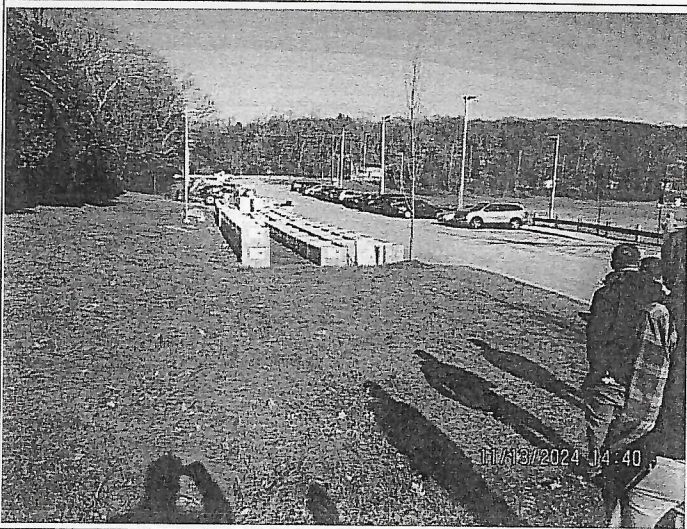
18. Bus loading zone, corner dormer. A 16 ga plate will be secured to the existing framing. The sidewall/jamb flashing will be set in a continuous bead of sealant and secured to the 16 ga. plate. A new detail will be submitted separately. Headwall flashing will be tucked under the existing, set in a continuous bead of sealant and riveted using stainless steel, closed end rivets at 4" oc..



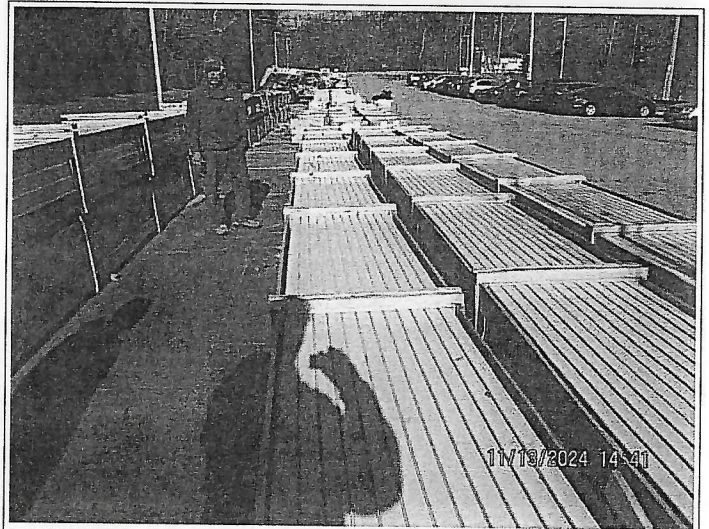
19. Curb flashings and pipe penetration boots will be installed according to the approved shop drawings and supplemental installation guide.



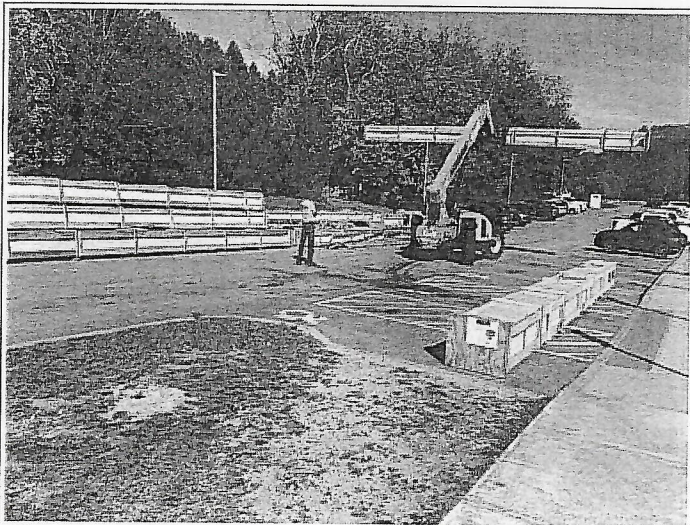
20. Underlayment have been installed on the entire substrate in compliance with the approved shop drawings.



21. Material lay down area.



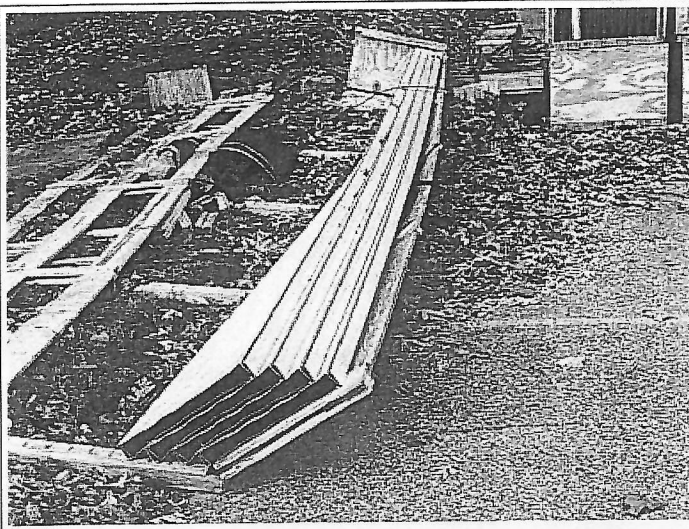
22. Panel crates should be shimmed so they are not resting on the end packing. Panels crates should be kept straight as not to introduce a camber or damage the panels.



23. Sent by Wayne Donaldson. All panel crates must be moved using a spreader bar and straps wrapped at the crate 2x4 packaging. All damaged panels by mishandling will be replaced by the Imperial Co..



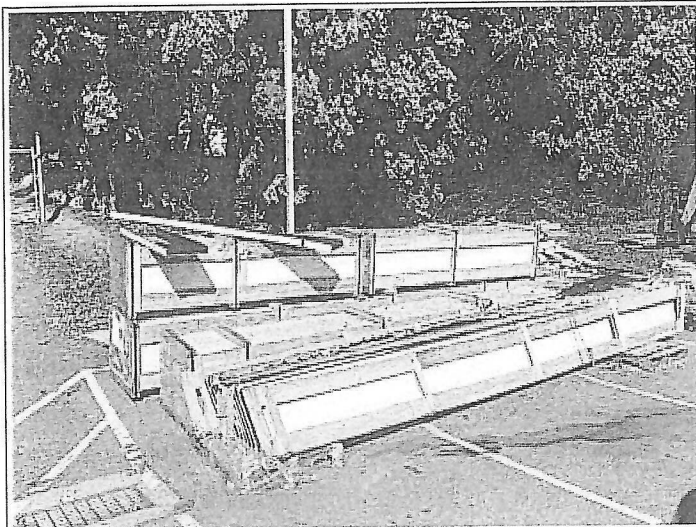
24. Sent by Wayne Donaldson. All panel crates must be moved using a spreader bar and straps wrapped at the crate 2x4 packaging. All damaged panels by mishandling will be replaced by the Imperial Co..



25. Sent by Wayne Donaldson. Panels in open crates must be supported to keep the integrity of the shape of the panel and ribs. All damaged panels by mishandling will be replaced by the Imperial Co..



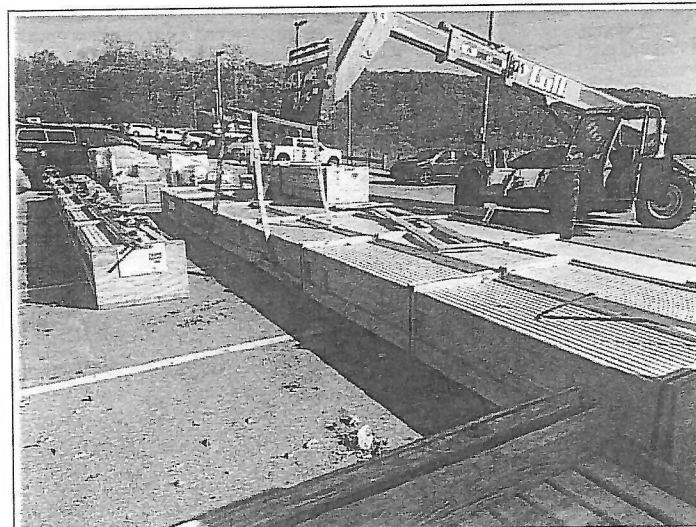
26. Sent by Wayne Donaldson. Scrap panels to be used in small cut conditions must be stacked and secured to maintain panel and rib shape.



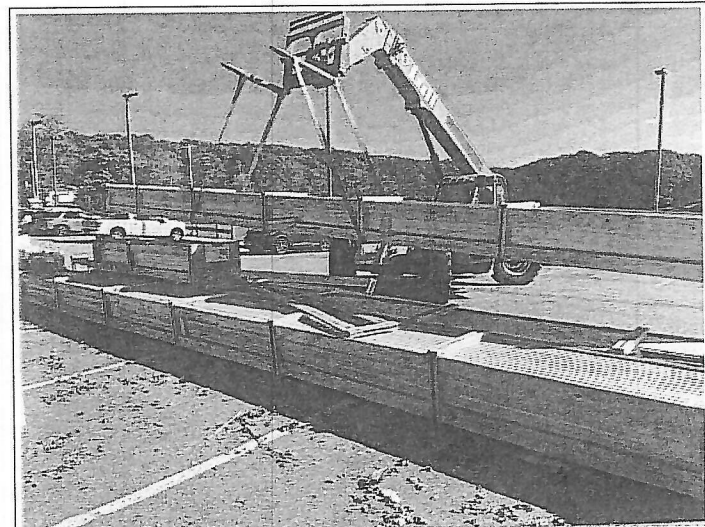
27. Sent by Wayne Donaldson. Panels in open crates must be supported to keep the integrity of the shape of the panel and ribs. All damaged panels by mishandling will be replaced by the Imperial Co..



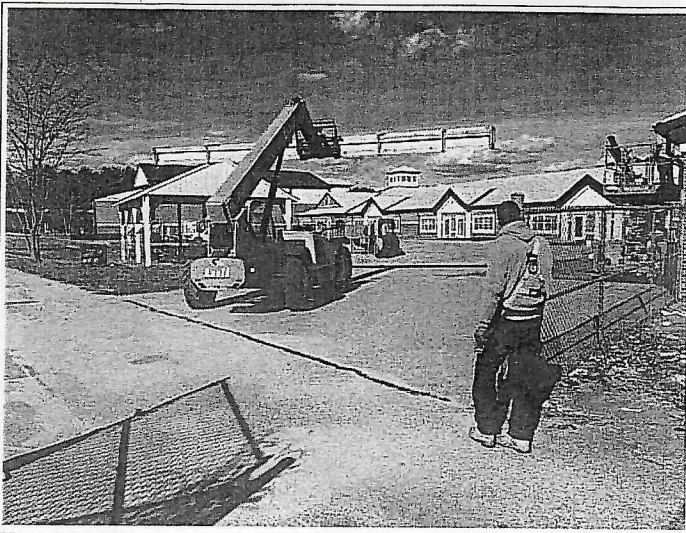
28. Sent by Wayne Donaldson. All materials must be protected to maintain shape and eliminate the possibility of damage.



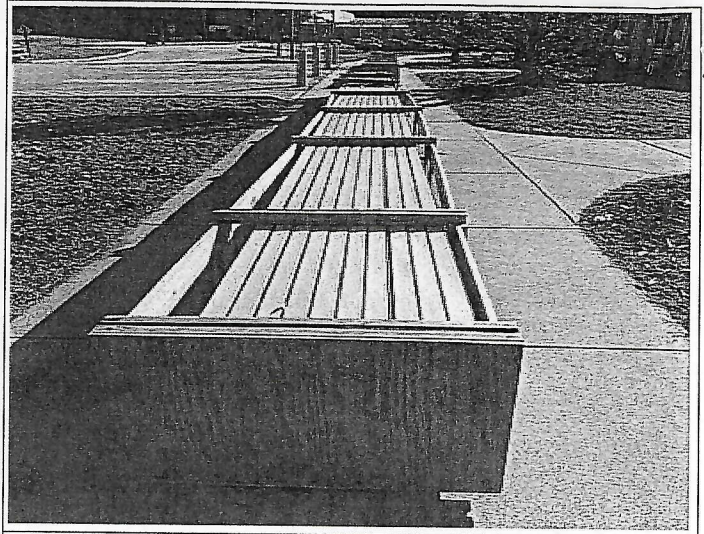
29. Sent by Wayne Donaldson. All panel crates must be moved using a spreader bar and straps wrapped at the crate 2x4 packaging. All damaged panels by mishandling will be replaced by the Imperial Co..



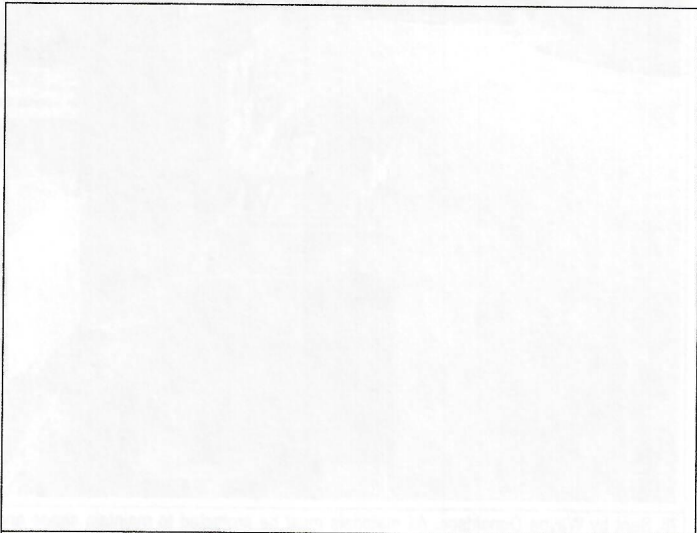
30. Sent by Wayne Donaldson. Crates are mishandled and cracked from lifting without the use of a spreader bar.



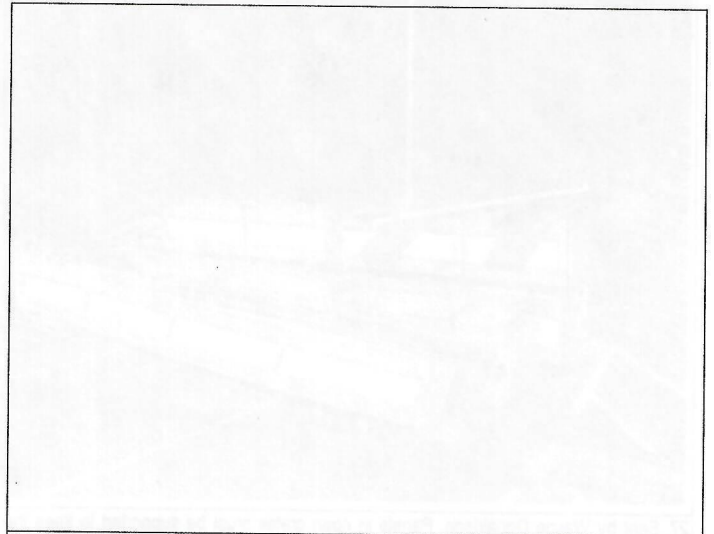
31. Sent by Wayne Donaldson. All panel crates must be moved using a spreader bar and straps wrapped at the crate 2x4 packaging. All damaged panels by mishandling will be replaced by the Imperial Co..



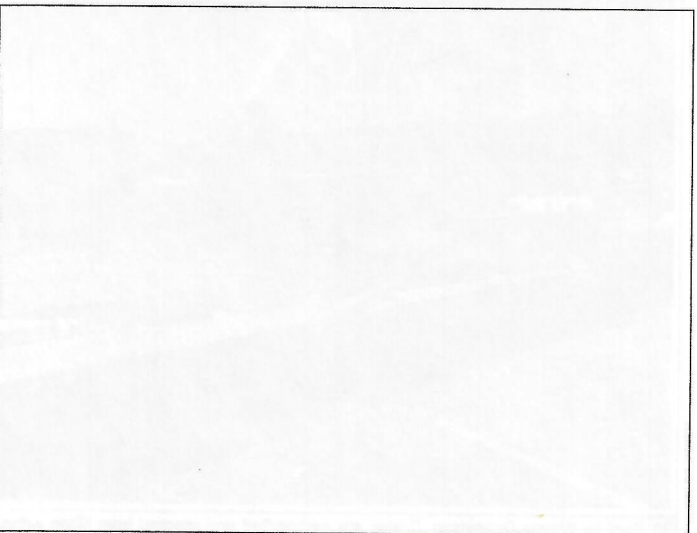
32. Sent by Wayne Donaldson. Crates must be protected from foot traffic.



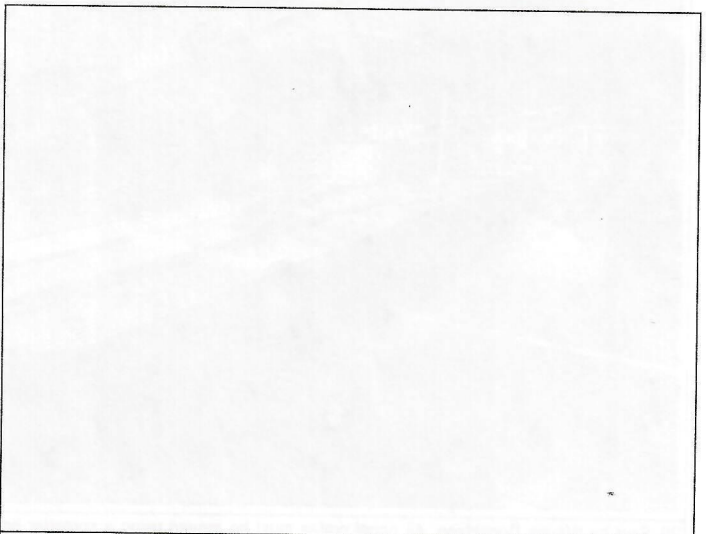
33. left bland intentionally.



34. left bland intentionally.



35. left bland intentionally.



36. left bland intentionally.