

STORM SEWER CALCULATIONS
HOLLAND COLD STORAGE
CITY OF KAUKAUNA, WINNEBAGO COUNTY, WI

PROPOSED STORM SEWER PIPE SUMMARY																	
US	Reach	DS	US Invert	DS Invert	Length (feet)	Slope (ft/ft)	Size (inches)	Node Drop	Drainage Area	Total Area (SF)	Lawn (SF)	Roof (SF)	Pavement (SF)	Runoff* (GPM)	Design Flow (GPM)	Capacity (GPM)	Velocity (ft/s)
R-2.	R-1.		690.83	690.20	314	0.0020	24		N/A	0	0	0	0	0	3968	4919	3.5
CO2	Pipe Connection		695.03	691.35	147	0.0250	8	1.00	2026 Addition North	14,170	0	14,170	0	545	545	929	5.9
Connect Existing	R-2.		693.77	692.33	144	0.0100	15	1.50	2026 Addition South	14,170	0	14,170	0	545	2189	3141	5.7
R-3.	R-2.		691.29	690.83	230	0.0020	15			0	0	0	0	0	1234	1405	2.6
R-4.	R-3.		691.41	691.29	62	0.0020	15			45,975	8,520		37,455	1234	1234	1405	2.6
<i>Existing Storm Sewer - 2013 Addition - Roof Drainage</i>						0.0050	15		2013 Addition Roof	42,740	0	42,740	0	1644	1644	2221	4.0
*DSPS 382.36 (5) Area Method; Peak Flow GPM = Roof Sq Ft / 26 Sq Ft per GPM + Pavement Sq Ft / 32.5 Sq Ft per GPM + Lawn Sq Ft / 104 Sq ft per GPM																	

PROPOSED STORM SEWER STRUCTURE SUMMARY

Structure	Phase	Type	Size	Cover	Rim Elevation	Invert Elevation	Invert Depth
R-1.	Proposed	Endwall	---	---	---	690.20	---
CO2	Proposed	Cleanout	8"	Downspout	698.75	695.03	3.72
R-2.	Proposed	MH (48)	48" ID	R-1550 Open	697.57	690.83	6.74
R-3.	Proposed	Curb Inlet	2'x3'	R-3067	694.50	691.29	3.21
R-4.	Proposed	Curb Inlet	2'x3'	R-3067	694.30	691.41	2.89