



Village of Menomonee Falls  
W156 N8480 Pilgrim Road  
Menomonee Falls, WI 53051-3140  
Telephone: (262) 532-4200

## STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section	NE ¼ of Section 2	Name of Business/Subdivision	Megal Development Corporation – American Imports
Property Tax ID Number	0005.002.01	Address of Property	N96W14555 County Line Road and N96W14433 County Line Road
Date 12/1/2017			Menomonee Falls, WI

Dry Pond	
Wet Pond	X
Other	

Location of Pond Along South property line

Pond ID: SWP2N002

Year Pond Constructed	2007	Year of Last Certification	2012
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Compliance Verification	Design	Actual	Compliant Yes    No		Comments ( Condition of Structure)
<b>Primary Outlet Pipe</b>					Outlet Pipe Material
Opening Diameter (inches)	12	15		X	The construction plans show a pipe coming from the pond to an existing catch basin, but no invert elevations or length is provided. During the inspection and the as-built survey of the detention pong, we could not find any outlet pipe within the pond. We were only able to identify the location of the catch basin.
Upstream Invert	792.00	--			
Downstream Invert	790.53	790.51			
Length (feet)	--	--			
Slope (%)	--	--			
<b>Secondary Outlet Pipe</b>	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b>	(If Applicable)				Riser Material
Opening Diameter (inches)					
Elevation					
<b>Upper Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)					

Elevation					
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Compliance Verification	Design	Actual	Compliant Yes    No		Comments
<b>Lower Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)					
Elevation					
<b>Other (Description)</b>					
Opening Type and Size (inches)					
Elevation					
<b>Emergency Spillway</b>					
Elevation	798.20	798.32	X		Very close, depends on location of rip rap.
Length of spillway (feet)	33.0	21.7		X	The design calls for a spillway to start at an elevation of 797 within the pond and end at 794 outside the pond. The spillway was surveyed at 796 inside the pond and 798 outside.
<b>Embankment</b>	Present Yes    no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation		X	There is some erosion located at the rip rap spillway and 12" ADS storm sewer outfall located on the north side of the pond.		
Animal burrows or slope erosion	X				
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments
Outfall 1	12" PVC		West side of swale and on the north side.		No visible erosion.
Outfall 2	12" ADS		North side of pond.		There is some erosion located at the end of the pipe.
Outfall 3					

Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used/Comments
Normal Water Elevation (Wet Ponds)	791.00	789.40	X			Carlson Mini 2 SN      Lower than emergency weir.  Less than 1' freeboard.  Understood that silt to accumulate, roughly 0.4' of sediment.
Design High Water Elevation	798.20	798.31	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.047	0.046	X			
Area at Design High Water Elevation (Ac)	0.318	0.385	X			
Active Storage Available (Ac-Ft)*	1.31	1.85	X			
Lowest Elevation at Top of Embankment (If Applicable)	799.60	798.12		X		
Average Elevation at Top of Embankment (If Applicable)	799.60	798.71		X		
Maximum Bottom Elevation	786.00	786.37	X			
Average Pond Bottom Elevation	788.50	786.37	X			
Pond Bottom Area (Ac)	0.000	0.000	X			
Maximum Pond Depth	12.20	11.94	X			
Average Pond Depth	9.70	9.63	X			
Average Permanent Pool Depth (Wet Ponds)	5.00	2.31	X			

\*To Determine Active Storage  $V = H/3(A1 + A2 + (A1 \times A2)^{1/2})$

Wet Ponds Use  $H$  = Height of Section ,  $A1$ = area at normal water elevation,  $A2$ =area at top section

Dry Ponds Use  $H$ = Height of Section,  $A1$ = pond bottom area,  $A2$ =area at top section

Sketch Outlet or Attach to Document	Place Photograph of Pond
	

This apron is busted and undermined and should be replaced in the near future to prevent further silting in of the pond, greater erosion issues.



*Attach As-built Survey to the Document for the first report submission*

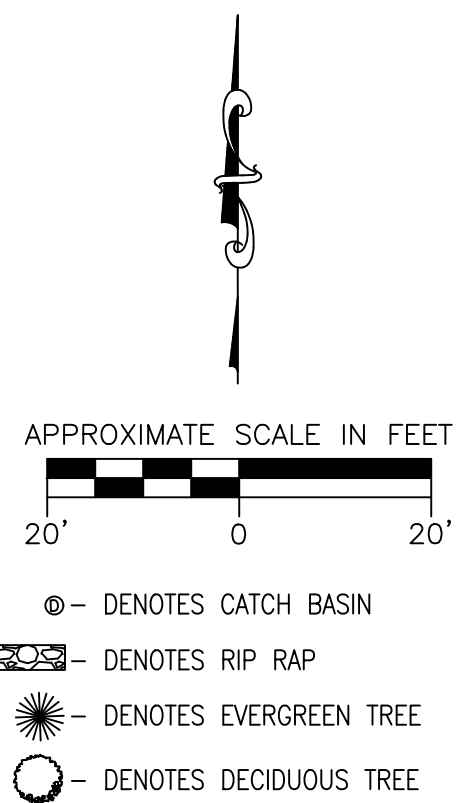
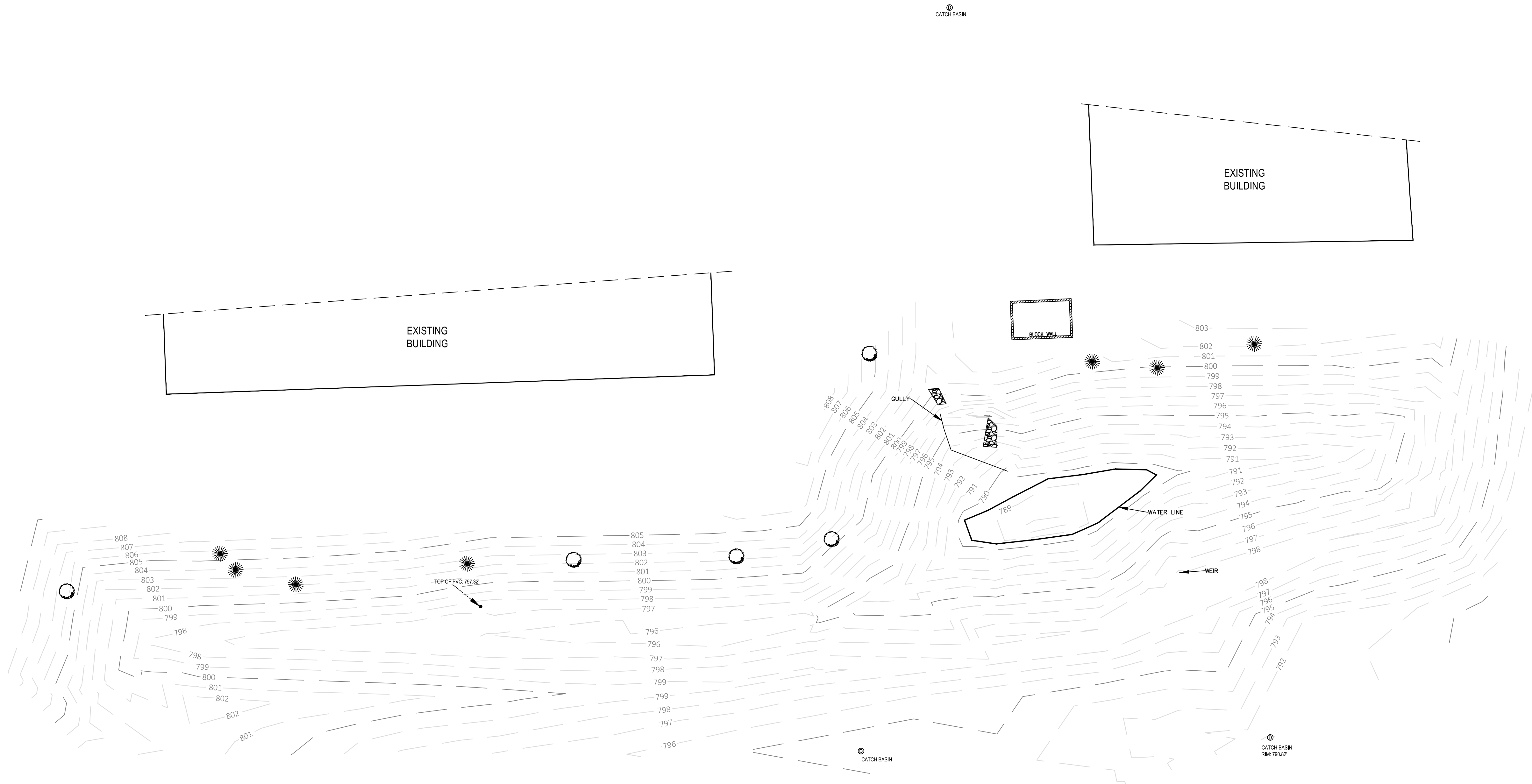
Inspection Firm: Key Engineering Group, Ltd. Inspector Name : Jeremy Hinds  
Phone Number: 414-224-8300 Inspection Date: 11/11/2017  
Address: 735 North Water Street  
Suite 510  
Milwaukee, WI 53202

Certifying Professional Jeremy Hinds, P.E.  
Name: \_\_\_\_\_  
Phone Number: 414-224-8300



Date: 12/1/17 Signature: [Handwritten Signature]

12-1-2017



- ⊙ - DENOTES CATCH BASIN
- ▨ - DENOTES RIP RAP
- ☀ - DENOTES EVERGREEN TREE
- - DENOTES DECIDUOUS TREE

REVISION NO.	DESCRIPTION	DATE	BY	DESIGNED BY	DATE
				CAT	12/1/17
				JLH	12/1/17
				CADFILE	
				XREF	
				LMAN	

**DETENTION POND AS-BUILT**  
**N96 W14433 & W14555 County Line Rd.**  
**MEGAL DEVELOPMENT**  
**MENOMONEE FALLS, WI**



KEY PROJECT NUMBER	1710-0506
PROJECT SCALE	1" = 20'
SHEET NUMBER	C-1