



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 1/4 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 Menomonee Falls, WI
Date 12/1/2017			
Dry Pond		Location of Pond	Along South property line
Wet Pond	X		
Other		Pond ID:	SWP2N002

Year Pond  
Constructed 2007 Year of Last  
Certification 2012

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 pond, 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  $V=H/3(A1+A2+(A1xA2)1/2)$

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.  
Phone Number: 414-224-8300  
Address: 735 North Water Street  
Suite 510  
Milwaukee, WI 53202

Inspector Name : Jeremy Hinds  
Inspection Date: 11/11/2017

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

Date:

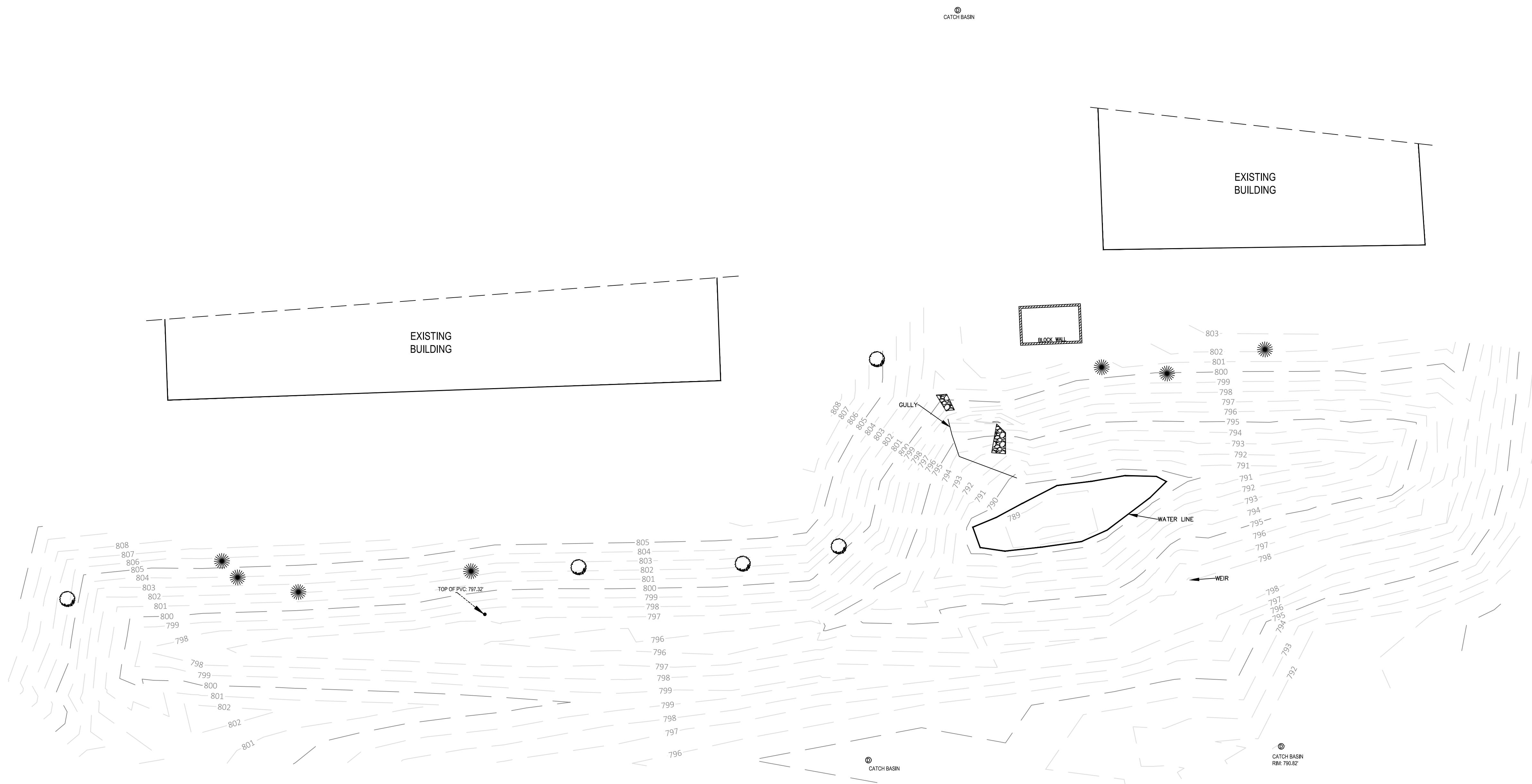
12/1/17

Signature:

*Affix Seal Here*



12-1-2017



APPROXIMATE SCALE IN FEET  
20' 0 20'

- ◎ - DENOTES CATCH BASIN
- ████ - DENOTES RIP RAP
- ★ - DENOTES EVERGREEN TREE
- - DENOTES DECIDUOUS TREE

REVISION NO.	DESCRIPTION	DATE	BY	DESIGNED BY	DATE
					12/1/17
				DRAWN BY	DATE
				CAT	12/1/17
				APPROVED BY	DATE
				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**