

Pavement Management

Quick Start Guide

Welcome to Pavement Management

iWorQ is designed so you can customize the software to meet your pavement management needs. This guide was created to help you start performing common tasks in the Pavement Management system through step-by-step explanations and screen shots.

For additional help or questions, please call technical support at **888.655.1259.**

Technical support and training are always free!

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Managing Road Segments

PAVEMENTS	FIELDS	RATINGS	TREATMENTS	REPORTS	BUDGET	MAP	GUEST MAP	ARCGIS TEST	R-GUEST
Pavements	Simple Search	Advance	d Search Open	Saved Search	Add Pavem	ent			

Creating a New Pavement

1. Click **Add Pavement** in the sub-menu.

CREAT	TE PAVEMEN	IT		
Pavement Date:	11/25/20	IMPORTANCE:		•
Road Name:		FUNCTIONAL CLASS:		•
From Address:		SPEED LIMIT:	-	•
To Address:		test:		_
Length:		Over Weight:		•
Width:		Road Approval:		•
Area (Yd^2):	0			
Subdivision:	- •	•		

- **2.** Fill out the pavement information. This can be changed later if necessary.
- **3.** Click the **Create** button.

To add additional fields or items to drop-down menus, see page 11.



Modifying Pavement Data

- **1.** To edit an existing pavement, click on the pavement row within the Pavement View table.
- **2.** The Pavement Information window will display all the information attached to the pavement. Edit the necessary information.

PAVE	MENT			🖺 SAVE	≡>
+ Add Wo	ork Order	🛇 View On Map	→ Assign W	ork Order	Copy Pavement
Pavement #:	121	IMPORTANCE:	LOW		Print Pavement
Date:	07/07/00	FUNCTIONAL CLASS:	RESIDENTIAL	•	☑ Notes
< Road Name:	800 W	SPEED LIMIT:	25 MPH	•	Add Treatment
From Address:	3900 S	test:	test		Upload FileMap
To Address:	3875 S	Over Weight:		•	Open Guest Map
Length:	121.0	Road Approval:	-	•	Open ArcGis Test
Width:	36.0				Open R-Guest
Area <mark>(</mark> Yd^2):	484				
Subdivision:	c	•			

3. Click the **Save** button to preserve any changes made to the pavement.



The Pavement Information Window





Advanced Search

PAVEMENTS	FIELDS	RATINGS	TREATMENTS	REPORTS	BUDGET	MAP	GUEST MAP	ARCGIS TEST	R-GUEST
Pavements	Simple Search	Advance	d Search Oper	n Saved Search	Add Pavem	ent			

Using the Advanced Search

- **1.** Click the **Advanced Search** button in the sub-menu.
- 2. The Advanced Search allows the user to search by any fields in the application. Enter the desired search parameters and click **Search**.

ADVANCED	SEARCH		SAVE SEARCH	Q SEARCH
Pave ID				
Road Name	Nothing selected	*		
From Address				
To Address				
Length				

3. Searches can be saved for later ease of access. To save a search, click the **Save Search** button before clicking Search.

OPEN

Saved Searches

There are two methods to open a saved search.

- **1.** Click the **Open Saved Search** button in the sub-menu.
- 2. Select the saved search from the drop-down menu and click **Open**.



EDIT

3. The user can also edit the search parameters of the saved search by clicking **Edit**.

Or

1. Select the saved search from the **Select View** drop-down menu in the upper right-hand corner of the Pavement View table.

Saved Searches can also be used when creating reports.

If you have questions about saved searches, contact iWorQ for assistance: 888.655.1259.



DELETE

Customizing Data Fields

PAVEMEN	NTS	FIELDS	RATINGS	TREATMENTS	REPORTS	BUDGET	MAP	GUEST MAP	ARCGIS TEST	R-GUEST
Fields	Status	Status	Defaults							

Adding Fields

In the Fields tab, the side menu on the right-hand side of the screen contains four options to add a new field: Text, Numeric, Lookup, and Date.



Text Fields

The Text Field accepts text, symbols, and numbers.

- **1.** Click Add Text Field.
- **2.** Enter in the Field Name and a default value to

display upon creation of a new pavement.

Numeric Fields

The Numeric Field accepts numbers and decimals.

- 1. Click Add Numeric Field.
- **2.** Enter in the Field Name, the number of decimal places to be displayed,



and a default value to display upon creation of a new pavement.

Add Field

Field Name:

Default Days From Creation Date:

Add Field

Field Name:

Default Value:

ADD FIELD

Date Fields

The Date Field accepts numbers formatted as dates.

- 1. Click Add Date Field.
- **2.** Enter in the Field Name and enter a default

number of days away from the pavement to display.

ADD FIELD

o creatio	on date of t

Lookup Fields

The Lookup Field creates a drop-down menu box.

- **1.** Click Add Lookup Field.
- 2. Enter in the Field Name and click Add Field.

Add Field	×
Field Name:	
ADD FIELD	

3. To add options in the drop-down menu, click on the blue **Values** button in the new field's row in the table.

Edit/View	Field ID	Field Name	Lookup Values	Туре	Order	
1	109637	Subdivision	Values	lookup	1	×
1	100007	IMPORTANCE	Values	lookup	2	×

4. Click **Add Value**.

- **5.** Enter in a value and click **Add**.
- **6.** To edit an existing value, click the blue **Edit** button in the value's row. To

Lookup Values		2
+Add Value		
Edit	A	×
Edit	В	×
Edit	с	×

delete an existing value, click the red X at the end of a value's row.

Deleting Fields

To delete a field, click the red X at the end of a field's row and click Yes to delete the field.

Reordering Fields

To reorder fields, click and drag fields within the table into the desired order. Changes to the order of fields are automatically saved.



PAVEMENTS FIELDS RATINGS TREATMENTS REPORTS BUDGET MAP GUEST MAP ARCGIS TEST R-GUEST Ratings

Ratings consider various stresses and conditions of a road segment to determine a road's Remaining Service Life (RSL). Based on these ratings, the system will provide a Recommended Treatment for the road segment to extend the segment's RSL and avoid extensive reconstructions.

Add Ratings

- 1. Click the Add Ratings button in the side menu.
- 2. Enter in the Rating Name and click Add.
- **3.** To add rating values, click the **Rating Values** button within the row of the new rating in the table.
- 4. Click Add New.
- **5.** Enter in the rating information and click **Add**. Repeat for all necessary values.
- **6.** Existing ratings can be deleted by clicking the red X at the end of the rating's row in the table.
- **7.** Ratings can be reordered by dragging and dropping ratings into the preferred order. Changes to the order are automatically saved.

Add F	ating				×
	Rating Name	-			
				ADD)
TRAN	SVERSE Rating Values				×
Rating	Description	RSL	Treatment	Order	
0:NONE	THE ROAD HAS NO VISIBLE SIGNS OF TRANSVERSE CRACKING	20	No Maintenance	0	Edit
1:LOW	CRACK WIDTH LESS THAN 1/4 *-CRACKS FORMING LESS THAN 40 FEET	5	CHIP SEAL	1	Edit

2:LOW- MED	CRACK WIDTH LESS THAN 1/4"-CRACKS FORMING GREATER THAN 40 FEET APART AND LESS THAN 150 FEET APART	10	No Maintenance	2	Edit
3:LOW- HIGH	CRACK WIDTH LESS THAN 1/4"-CRACKS FORMING LESS THAN 40 FEET APART	8	CHIP SEAL	3	Edit
4:MED- LOW	CRACK WIDTH GREATER THAN 1/4" AND LESS THAN 3/4"-CRACKS FORMING GREATER THAN 150 FEET APART	10	Slurry Seal	4	Edit
5:MED- MED	CRACK WIDTH GREATER THAN 1/4" AND LESS THAN 3/4"-CRACKS FORMING GREATER THAN 40 FEET APART AND LESS THAN 150 FEET APART	8	CHIP SEAL	5	Edit
6:MED- HIGH	CRACK WIDTH GREATER THAN 1/4" AND LESS THAN 3/4"-CRACKS FORMING LESS THAN 40 FEET APART	6	CHIP SEAL	6	Edit
7:HIGH- LOW	CRACK WIDTH GREATER THAN 3/4"- CRACKS FORMING GREATER THAN 150 FEET APART	8	Slurry Seal	7	Edit
8:HIGH- MED	CRACK WIDTH GREATER THAN 3/4"-CRACKS FORMING GREATER THAN 40 FEET APART AND LESS THAN 150 FEET APART	6	2 in. Overlay with Fabric	8	Edit
9:HIGH-	CRACK WIDTH GREATER THAN 3/4"-CRACKS FORMING LESS THAN	4	2 in. Overlay	9	Edit

1111			ADD NEW
dd Value			
Rating			
Rating Description			
Remaining Service Life		11	
(RSL)	0		
Recommended Treatment		~	
Order	0		

Ireatments											
PAVEMENTS	FIELDS	RATINGS	TREATMENTS	REPORTS	BUDGET	MAP	GUEST MAP	ARCGIS TEST	R-GUEST		
Treatments											

Treatments are used to extend the road segment's Remaining Service Life (RSL). The Treatments tab tracks the available treatments, their associated costs, and their extensions to a segments RSL.

Add Treatments

- **1.** Click the **Add Treatment button** in the side menu.
- **2.** Enter in the treatment information.
- **3.** Click **Add**.

Treatment Name		
Treatment Description		
Maintenance Type	No Maintenance	0
Cost/YD^2		
Added life		
Next Treatment	No Maintenance	7.5

- **4.** To edit an existing treatment, click on the treatment's row in the table.
- **5.** To delete a treatment, click the red X at the end of the treatment's row in the table.



Creating Reports

PAVEMENTS	FIELDS	RATINGS	TREATMENTS	REPORTS	BUDGET	MAP	GUEST MAP	ARCGIS TEST	R-GUEST
Pavement Report	rts								

Building a Report

1. In the Reports tab, choose from the list of options which report to run. Click the blue **Build** button at the end of the row of the report.

Report Name						
Pavement General	Create custom pavement management reports.	Build				
Pavement Detail	Create custom reports with details like treatment history and condition.	Build				
Treatment History	Shows a history of segments treated.	Build				
Rating History	Shows a history of ratings by date.	Build				
Pavement RSL Distribution	Pavement RSL Distribution	Build				

2. Select which data fields to display in the report. Reorder the fields into the desired order by clicking the up and down arrows for each field. Sorting and grouping rules are also available. Once finished, click the **Run** button.

Design Pavement Detail									
			🎮 Save 🖀 Details 🖩 Calculate 🖌	Style 😵 Refre	sh 🕕 Run				
Add Fields				Repor	t Title: Pavement	Detail			
Pavement Information		Column	Field	Width	Format	Sum	Sort Order	Sort Type	
+ Segment ID		1	Segment ID	1	Numeric		Add	1.0	÷ X
+ Road Name		2	Road Name	1	Text		Add		1+ ×
+ From Address		3	From Address		Text		Add		1+ ×
+ To Address				1					
Inventory Date		4	To Address	1	Text		Add		1+ ×
+ Current RSL		5	Length (ft)	1	Numeric		Add		1+ ×
+ Last Rating Date		6	Width (ft)	1	Numeric		Add		1 ¥ ¥
+ Length (ft)		7	FUNCTIONAL CLASS	1	Text		Add		14 ×
+ Width (ft)			CONSTRUCTION AND A CONSTRUCTION		1000		100000		
🕈 Area (yd^2)		8	SPEED LIMIT	1	Text		Add		† *
+ Asset Value									Total Fields: 8
+ Subdivision		Details:			_				

Select the data range for the report. Use a saved search to further narrow results, if desired. Once the necessary criteria has been selected, click Run to view or print the report, Cancel to return and further build the report, or Export as (.csv) to download the data in a spreadsheet

Please contact iWorQ
at 888.655.1259 for
any questions on
running reports.

Select Report	Criteria
Select a Saved Search ((Optional)	v
\rm 🕘 Run 🔇 Ca	incel
	Export as (.csv)



The Report Interface





Budgets

PAVEMENTS	FIELDS	RATINGS	TREATMENTS	REPORTS	BUDGET	MAP	GUEST MAP	ARCGIS TEST	R-GUEST
Budgets									

Adding Budgets

- 1. Click Add Budget in the side menu.
- 2. Enter in the Budget Name. Optionally, select a saved search to act as the initial criteria for the budget. Click Add.

Add Budget		×
Budget Name Saved Search	<optional></optional>	~
		ADD

Edit				Delete
1	Ø	Let.	2020 Pavement Budget	8
1	2	Let.	Brooking Test	8
1	es.	Lat.	Canton GA	8
1	CO.	Last.	Cherokee County	8
1	40	Let.	Cheyenne	8

3. To view or edit a budget and add items, click on the row of the budget in the table.

BUDGE	T INFC	ORM	ATION	١					E	SAVI	E	\equiv
												IIII Projection Chart
Budget - 2020 Pa	avement Budge	t										
Category	Year 1	% Sys	Year 2	% Sys	Year 3	% Sys	Year 4	% Sys	Year 5	% Sys		
Segments Not In Budget	-	-	-	-	-	-	-	-	-	-	Add to Budget	
No Maintenance	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	Modify/Pr	
Routine	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	Modify/Pr	
Preventative	\$642,556.67	66.50	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	Modify/Pr	
Rehabilitation	\$170,430.00	1.76	\$26,520.00	0.27	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	Modify/Pr	
Reconstruction	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	Modify/Pr	
Total	\$812,986.66		\$26,520.00		\$0.00		\$0.00		\$0.00		Modify/Pr	



Adding Segments to Budget

- **1.** To add road segments not included in the saved search from which the budget was created, open the Budget Information Window.
- **2.** Click the **Add to Budget** button in the upper right-hand corner of the annual budget table.

AD	DD SEGN	IENTS TO	BUDGET +	ADD TO BU	DGE
ID	Road Name	From Address	Too Address	Area (yd^2)	
401	1000 N	AL Street	800 E	12	
30	1000 W	4400 S	4300 S	2087	
31	1000 W	4300 S	4260 S	2235	
32	1000 W	4260 S	4250 S	1535	
33	1000 W	4250 S	4200 S	1311	

3. In the Add Segments to Budget window, check the boxes of the road segments to add to the budget. Click **Add to Budget**.

Adding to a Budget

- **1.** To add to an existing budget, open the Budget Information window.
- 2. Below the annual budget table, there are two Quick Budget options. The first allows users to add to the budget for a treatment in number of total dollars. The second allows users to add to the budget for a treatment in a percentage of the total budget.
- **3.** Add the desired Budget Amount or Percentage.
- **4.** Select the budget year.
- 5. Click Apply.

Select Treatment	2 in. Overlay with Fabric	~
Budget Amount		
Year	NOT SELECTED	×
	API	PLY \$
	Quick Budget (Using %)	
Select Treatment	Quick Budget (Using %) 2 in. Overlay with Fabric	~
Select Treatment Percentage		v
		v

The Budget Information Window Interface



Budgets maintenance work based upon a certain percentage of your network. For example, if you can only afford to treat 2-3% of your roads each year, then select the desired type of treatment, enter 3%, and select the year. Click Apply %.

Budgets maintenance work based upon dollar amounts. For example, if you can only spend \$5,000 on Crack Seal in Year 3, select the Crack Seal treatment, enter \$5,000, and select Year 3. Then click Apply \$.



Using the Map The Map Interface





Using the Map

Changing the Map View

Changing the Background Layer

- **1.** To change the background layer, click on the layers button in the top right-hand corner of the window.
- **2.** Select which option to display as the background map layer.



	- 21.9
	O Blank
	Streets
	⊖ Terrain
	⊖ Hybrid
-	Parcels
4	🗹 Pavement
	Manholes
Ļ	

Changing the Information Layer

- To change the information layer, click on the layers button in the top righthand corner of the window.
- 2. Check and uncheck which information layers to display and hide, respectively.



Viewing and Editing Information from the Map

- **1.** To view and edit information for a record through the map, select the active application for the map.
- **2.** On the map, click on the record to view and edit.
- **3.** A dialog window displays with basic information on the record. At the bottom of the dialog window, options to open, view, and edit the record are available.



4. Alternatively, select the record from the records list at the bottom of the map window.

/View	Permit Number 🖨	Permit Date 🖨	Parcel 🖨	Property Address 🖨	Owner 🖨	Subd
	13	02/23/2017				
(A)	12	11/16/2017				
	11	11/23/2016	0171920412013	1245 South Winchester	Dr. Leo Marvin	
(In the second s	10	11/22/2016	0171920403040		Joe Jackson	
	9	11/21/2016	026-138-28-0-20-08-003.00-0	504 W 37TH ST		
di la	8	11/20/2016	026-138-28-0-20-08-003.00-0	504 W 37TH ST		
2						



Viewing a Saved Search

- **1.** To view the results of a saved search on the map, select the saved search from the drop-down box within the side menu.
- **2.** Results will be highlighted on the map. To display information from a result, click on the highlighted result on the map.









Dashboard Preferences

Setting Preferences

- **1.** To customize the display of the Pavement Management application, select the **Preferences** button within the side menu.
- 2. In the Pave Preferences window, select which fields to display in the Pavement View table (this does not remove a field from the application and fields can still be viewed in the Pavement Information window if unchecked in the Preferences window). Select the number of lines displayed on each page as well as the size the information is displayed at.





Dashboard Overview



to open the Pavement Information window and edit information Save or edit selected pavements, add multiple treatments or ratings, edit preferences, and print information

