PAVEMENT MANAGEMENT PLAN (PMP)

APPENDIX INSTRUCTIONS

Date: 19 December 2023

Pavement Management Plan (PMP) Appendix Instructions

Do you know that the Air Force Civil Engineer Center (AFCEC) has two teams assisting bases to develop their pavement management plans (PMP) for airfield, roads and parking network pavements?

Why are we doing this? PMPs are required and pavement inventory and condition data has been collected since the 1970's! AFI 32-1041 / TSPWG 3-270-08.14-3 outlines the requirements for bases to develop PMPs in support of asset management. These plans identify major maintenance and repair projects for FYDP+2, outline three-to-five-year sustainment requirements (i.e., preventive, localized, and globalized), and identify risks and costs to ensure the right repair at the right time considering life-cycle costs, keeping pavement conditions in the "Good" to "Satisfactory" rating longer.

1.0 Pre-Requirements: Prior to the visit the team needs the base to develop pavement maintenance zones in PAVER, a common operating map identifying the pavement maintenance zones, as well as other items listed on the shared PMP Pre-Visit Checklist. These instructions focus on the PMP Appendices Workbook that is developed prior and during the visit and is also intended to be refreshed on an annual basis.

Follow sections 1.1 PMP Zone Definition in PAVER and 1.2 PMP Zone Map Instructions and submit the developed zone table and map to the AFCEC team at least one week prior to the visit.

2.0 Building the Background Tables: The most current inventory and condition-based requirements are needed in order to develop the management plan. This data is found in the PAVER .E70 files, Pavement Condition Index (PCI) Survey / Airfield Pavement Evaluation (APE) Reports, and the base PMP Zones developed in the pre-requirements section.

Follow sections 2.1 PMP Major M&R (MMR) Table Instructions, 2.2 PMP Consequence Table Instructions, 2.3 PMP Global Table Instructions, 2.4 PMP User Defined (UseDef) Table Instructions and 2.5 PMP Zone Table Instructions to develop the background tables. These will pre-populate the "Air Major", "Air PMCM", "Air Global", "Rds&Prk Major", "Rds&Prk PMCM", and "Rds&Prk Global" worksheets. These worksheets are formula-based therefore do not add, modify, or delete data from them. If there is an error, ensure that the background tables were developed with the proper column ordering and/or that all tables were completed and placed into the PMP Appendices Workbook correctly.

3.0 Developing the PMP: The now pre-populated requirements are ready to be assigned with the *Fiscal Year (FY)*, *Opportunity / Project Number*, and *Execution Methods*. The requirements are separated into Major Maintenance and Repair (M&R), Preventative Maintenance-Corrective Maintenance (PMCM), and Global Maintenance, based upon the distresses and severity. However, if there is additional work identified and not within the pre-populated requirements worksheet you can add to the appropriate worksheet by using the PAVER Maintenance Policy tables and UFC 3-270-08 based upon the type and severity of the identified distresses. The M&R alternatives are already listed within the *Work Description* column and *only* the drop-down list may be used.

Follow section 3.1 PMP Requirement Tables Instructions to develop the PMP tables. These will pre-populate the "$ Summary (A)", "$ Summary (C)", "RollupC", "Air Rollup", and "Rds&Prk Rollup" worksheets. These worksheets are formula based so do not add, modify, or delete data from them or errors will occur. If there is an error, ensure that the PMP tables were developed with the proper inputs and/or that all worksheets were completed and placed into the PMP Appendices Workbook correctly. These rollups and dollar summary worksheets are intended to aid in briefing the leadership or AMP Working Group on the plan and the costs to sustain pavements.

What should the base expect when the effort is complete? After the visit, the team will provide the base a draft PMP within two weeks, which includes this outlined Excel PMP Appendices Workbook. Expectations for the base are to review the plan and provide comments and any changes back within another two weeks. After that period, the plan will

be posted to the Airfield Pavement SharePoint site. If there are any issues or concerns, give the AFCEC team a call, as we are here to support you!

What is expected from the base? The interaction between the AFCEC team and the installation's TNAP AMP Manager is important to ensure logistics and discussions are effective, productive, and enable development of the PMP. Secondly, the installation's TNAP AMP Manager should ensure the base has access to PAVER as well as the Tableau Pavement tool. If not, reach out to the AFCEC team to gain access. The base is also expected to apply the process used to develop the Airfield PMP to complete the roads / parking pavements plan using the template included in the PMP workbook. Once complete, submit it to the AFCEC PMP team so it can be published to the PMP SharePoint site. AFCEC would like the base to complete this effort within 60 days of the visit. Moreover, the base should update PAVER construction history after major work has been accomplished by either in-house, or contract. Lastly, the base should update the plan annually to capture progress and changes.

How does this effort help my base? By completing the base PMP and sustaining it, the base benefits in multiple ways. These are:

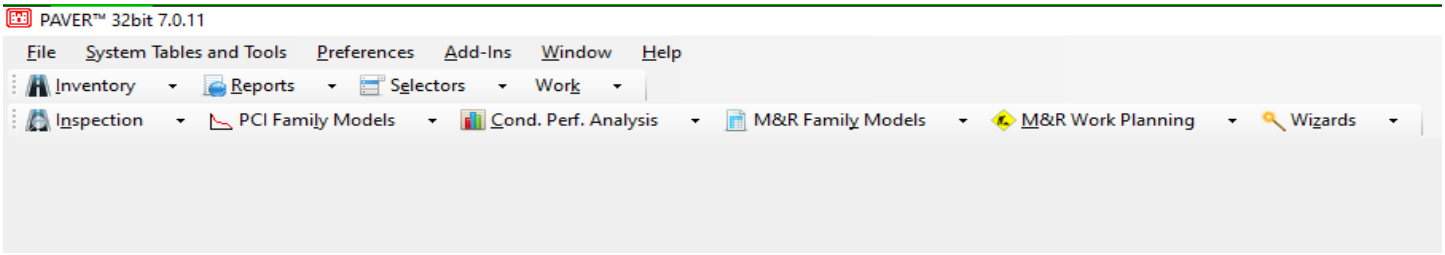
-- Complies with guidance and establishes a M&R plan based on asset data and mission
-- Identify requirements, focusing on keeping good assets "Good" while repairing failing infrastructure needed for the mission
-- Detailed pavement inventory information to update Real Property records
-- More efficient employment of pavement sustainment activities and resources
-- Streamlines resourcing (AFCAMP/EXPLAN) processes for pavement requirements
-- Enables MAJCOMs to compare base pavement requirements to establish priorities

When is my base on the schedule for a PMP and how is this determined? AFCEC/COAT has developed a 5-yr PMP schedule based on the "freshness" (~<2yrs) of PAVER data associated with the Pavement Condition Index Survey Reports (see link below). The team looks at the latest inspection schedule and aligns the PMP efforts to build the schedule.

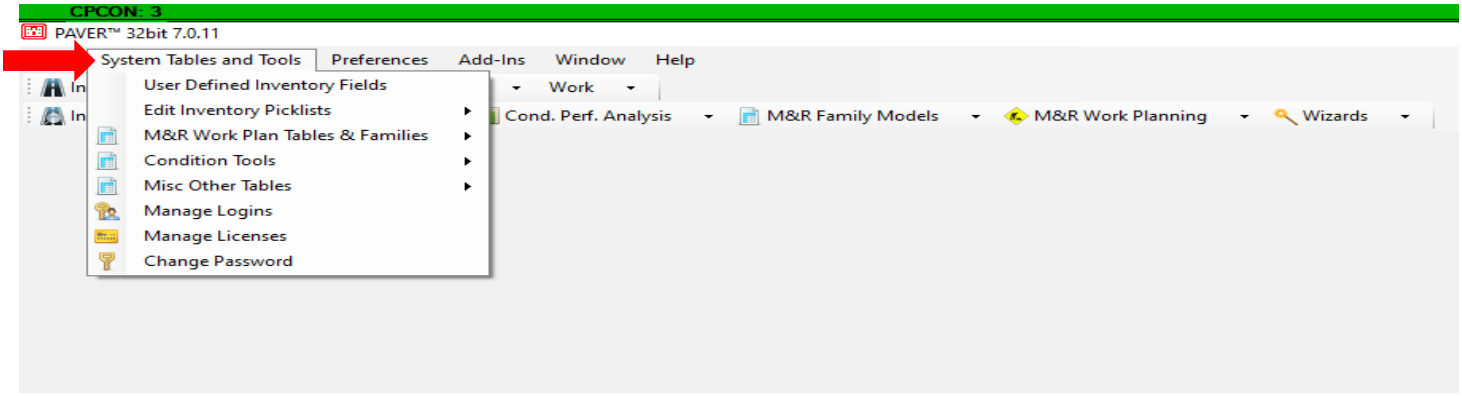
In summary, the PMP effort requires work up front and provides the base, MAJCOM, AFCEC, and AFIMSC a plan to advocate for funding to maintain / sustain our pavements at the lowest lifecycle costs within the capabilities and limiting factors associated at each base. It's a plan developed by stakeholders to clearly convey what, where, when, and how work needs to be done to allow advocacy for both resources and access to the pavements. So, when your base gets put on the schedule and / or it is time for the annual refresh, this Instruction Guide will help you understand what is expected and what's going to happen as we continue building PMPs across enterprise.

1.1 PMP Zone Definition in PAVER

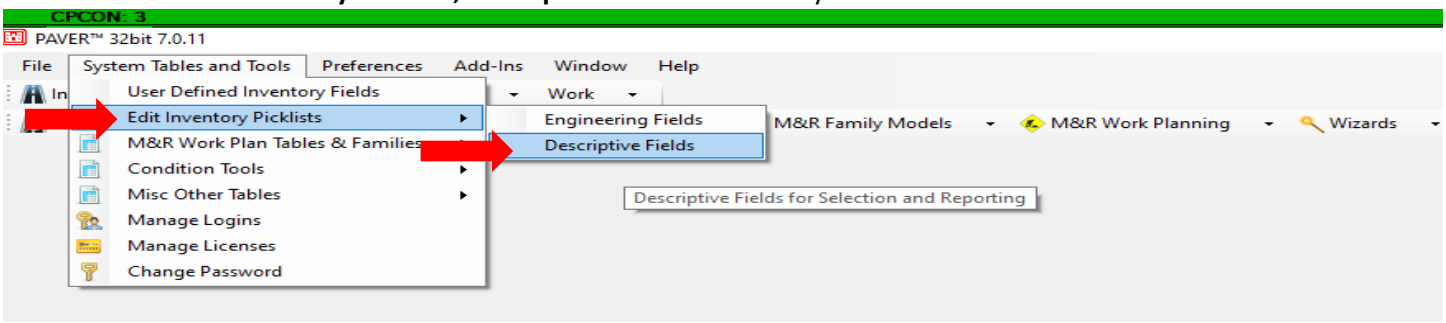
1.1.1 Open PAVER and import the database for your pavement (Airfield or Roads & Parking).



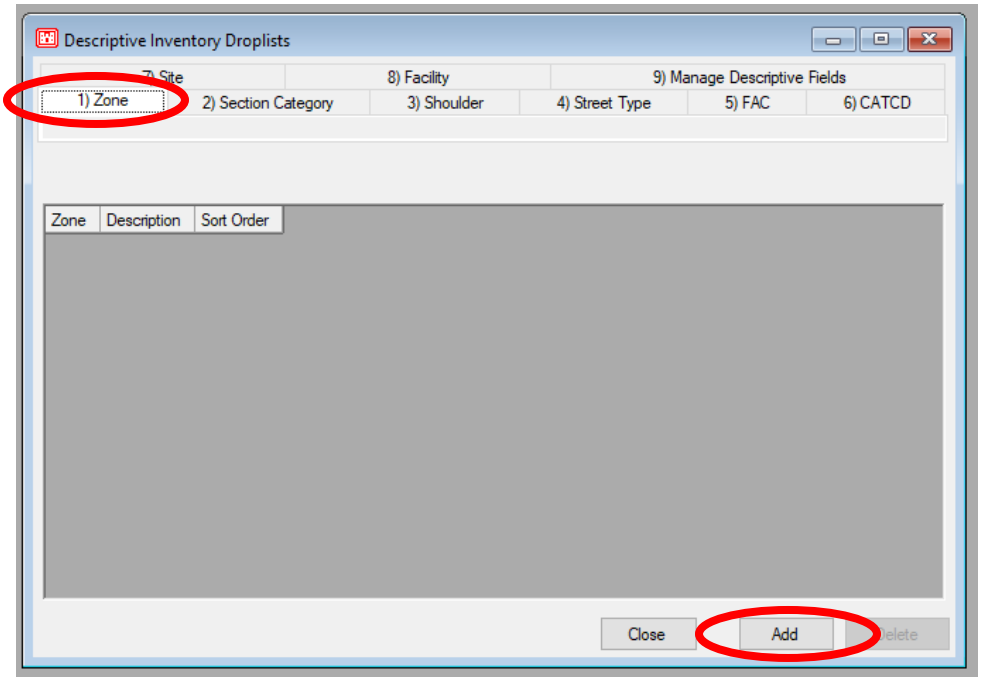
1.1.2 Select **System Tables and Tools** from the *top toolbar*.



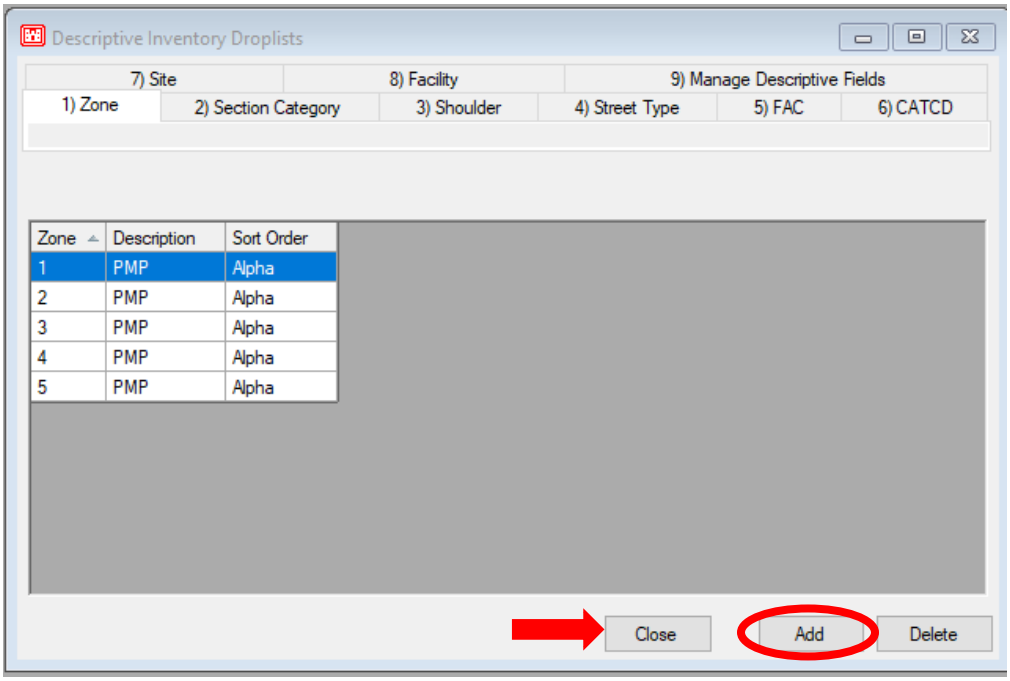
1.1.3 Select **Edit Inventory Picklists, Descriptive Fields** from the System Tables and Tools Menu.



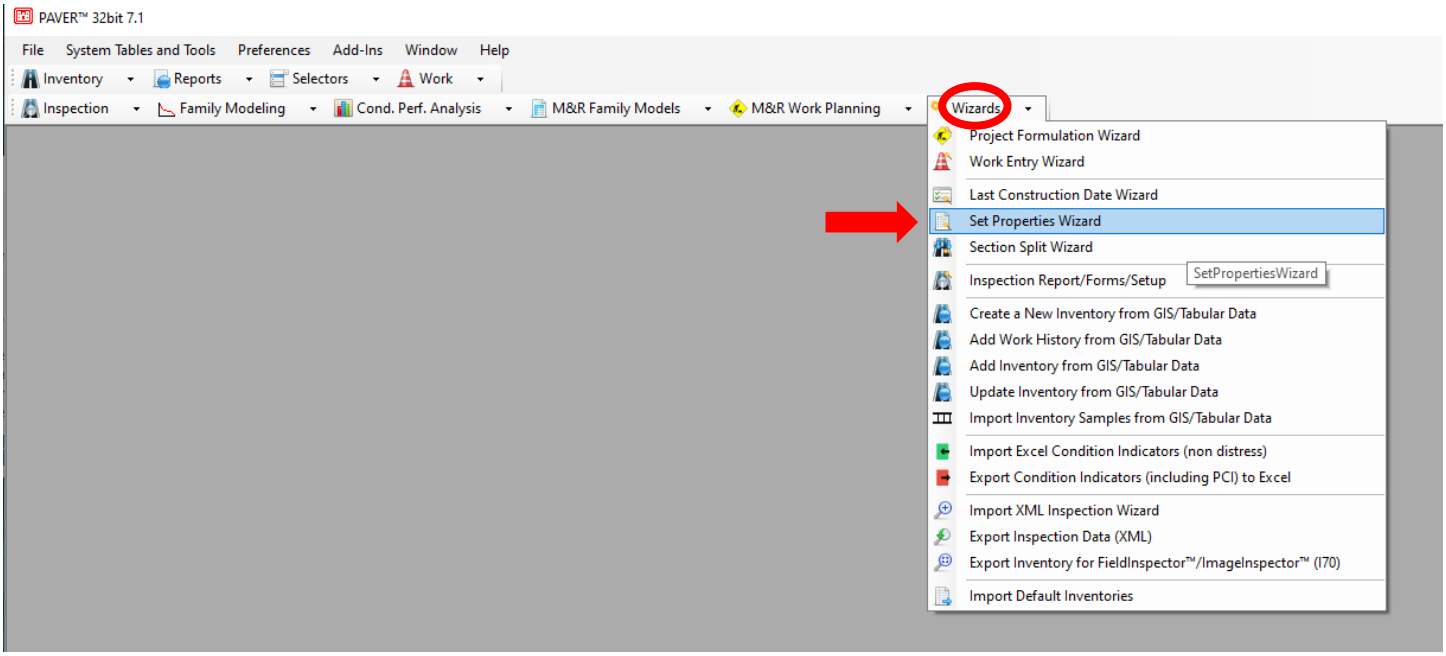
1.1.4 Once the *Descriptive Inventory Droplists* pop-up window opens click the Zone tab and then select **Add**.



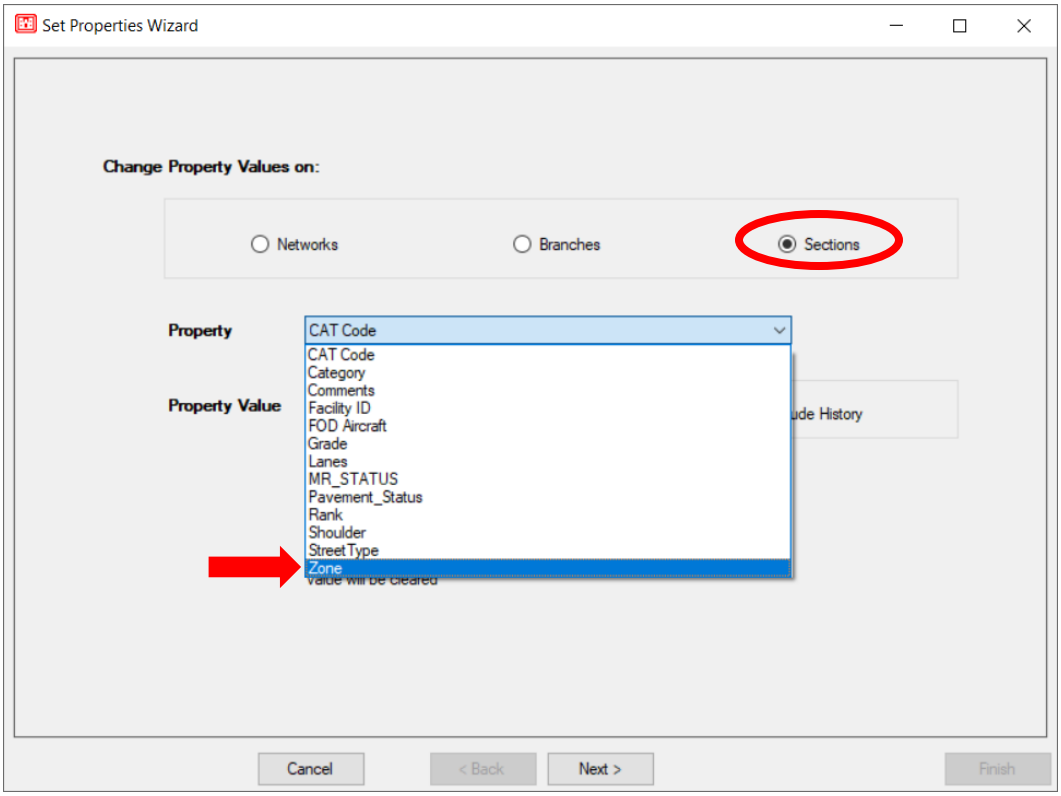
1.1.5 Define the Zone number. Air Force Civil Engineer Center (AFCEC) guidance is to have a maximum of 5 Air Force working zones. Add "PMP" in the *Description field*. Leave the *Sort Order* as *Alpha.* You may also separate pavements into zones that are abandoned, reimbursable, or other category as the next Zone number that follows your maximum working zone (e.g., Zone 6), or a descriptive acronym (e.g. Privatized Housing=PH). The description of these extra zones should be a short acronym for the zone, but not PMP. Click **Add** to add in all of your Zones (maximum of 5 AF working zones). Once finished click *Close*.



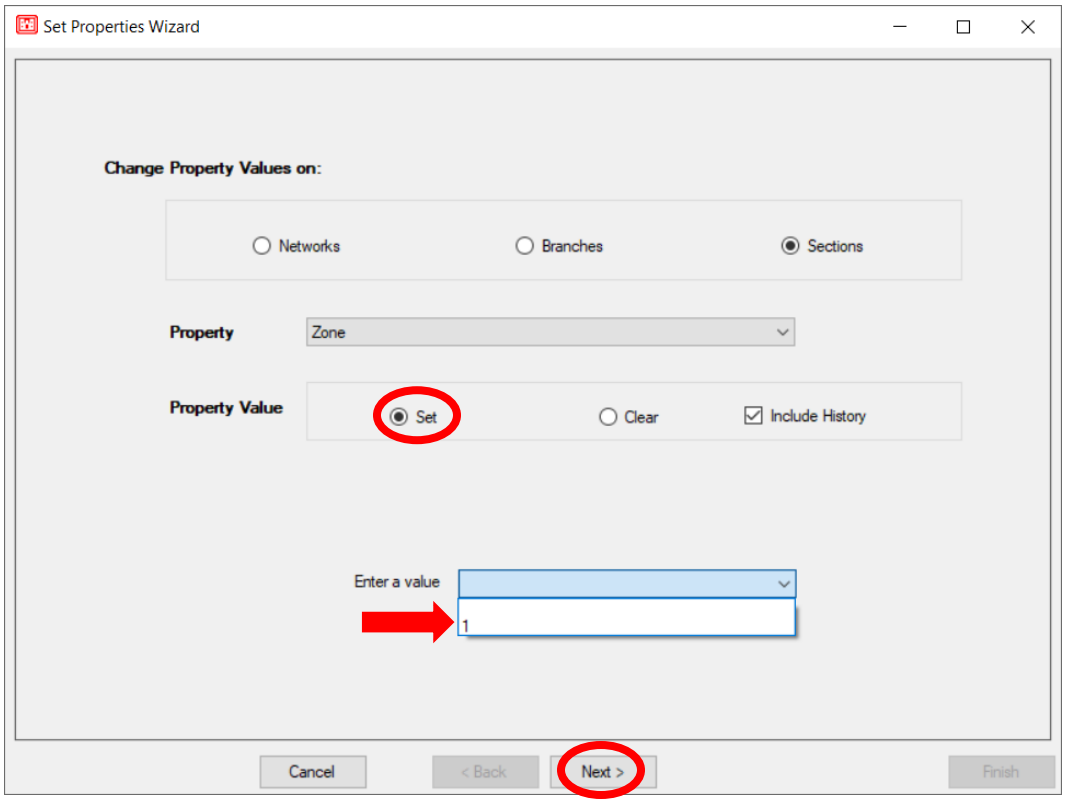
1.1.6 Once all Zones are defined and the descriptive fields are added, it is time to assign pavement sections to the zones. Multiple assignments can be made by using the **Wizards** tab. Select the **Wizards** tab and then select **Set Properties Wizard** and the window will open.



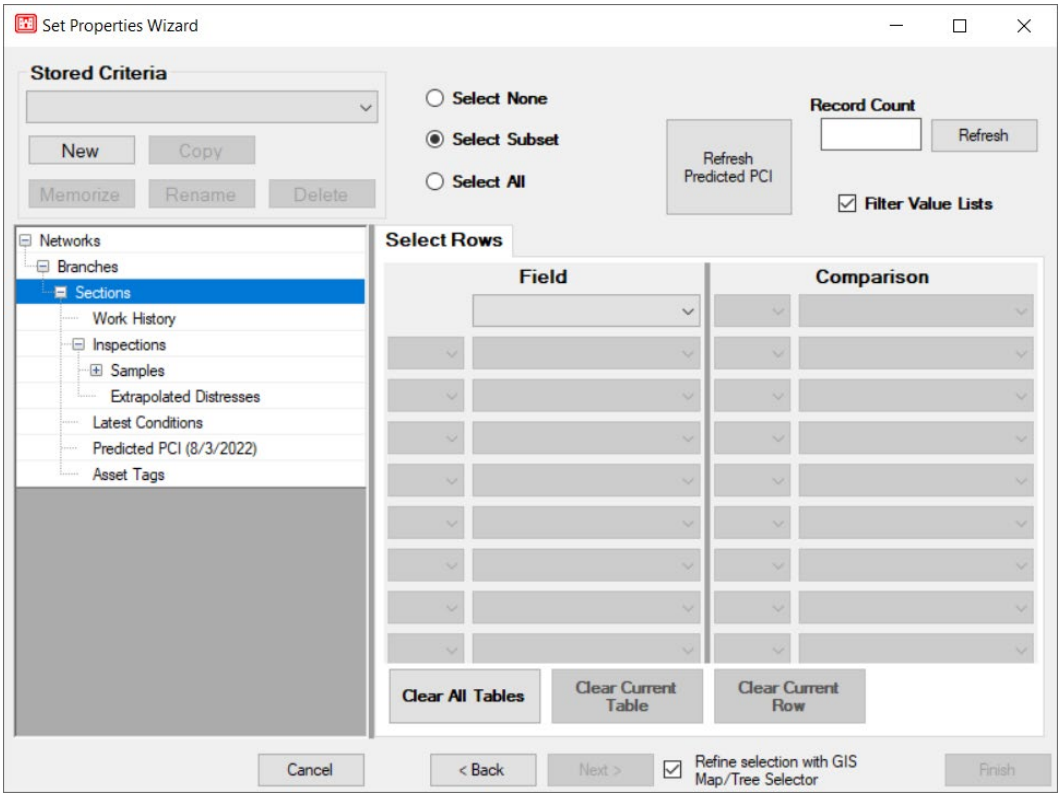
1.1.7 Ensure that **Sections** is selected. Select the **Property** dropdown and select **Zone**.



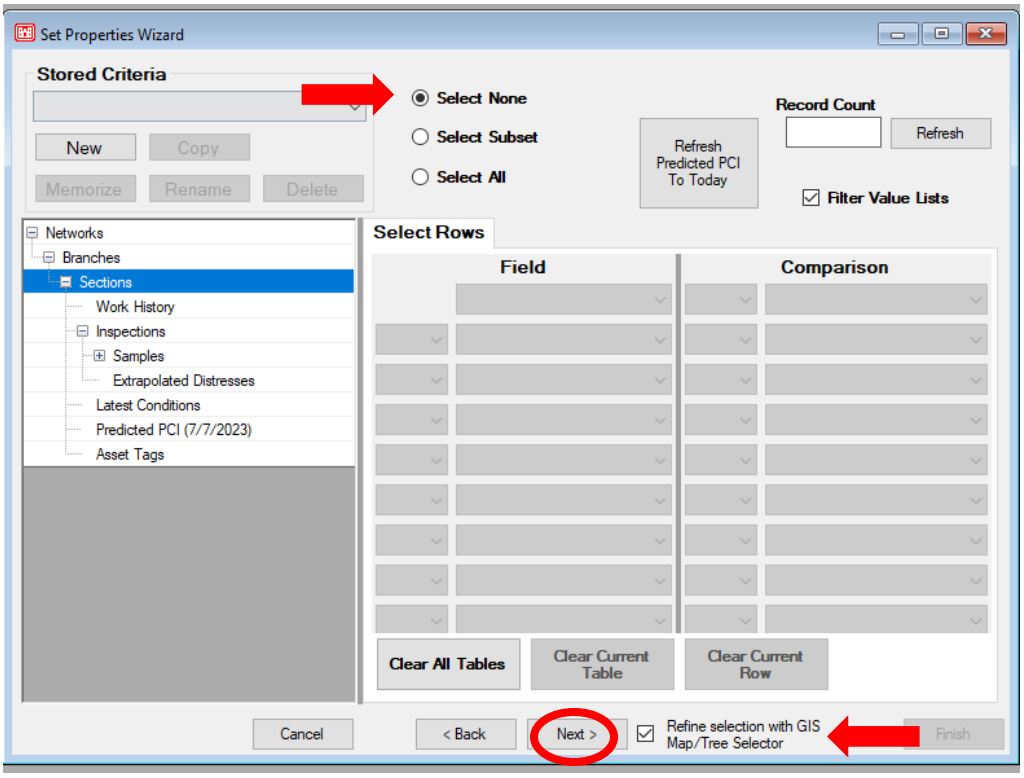
1.1.8 For **Property Value** select *Set*. Use the dropdown to **Enter a Value**. Select the desired Zone value and select *Next*.



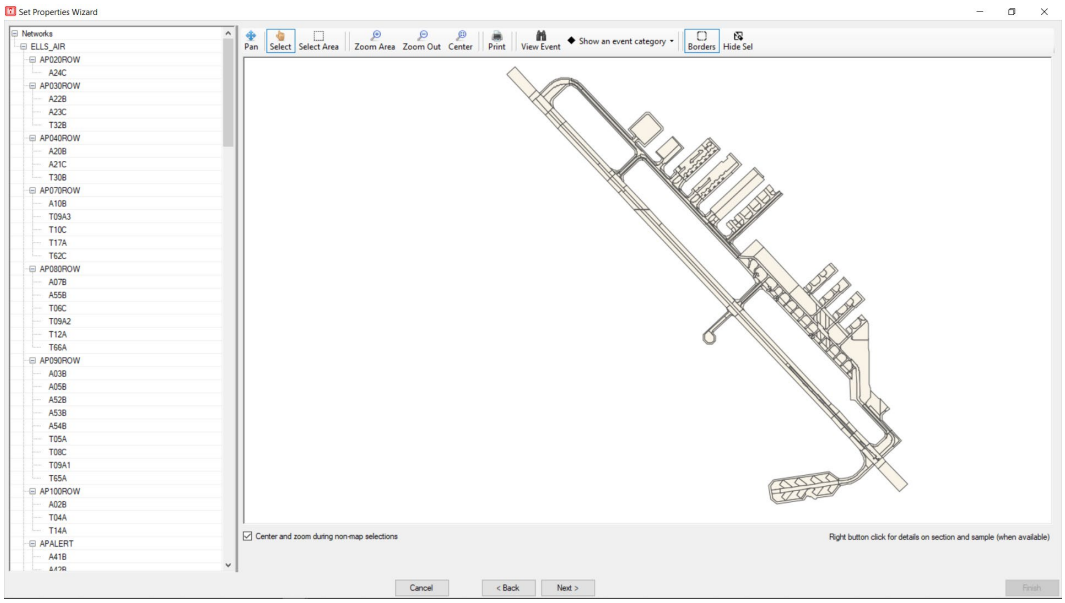
1.1.9 A new **Set Properties Wizard** window will open.



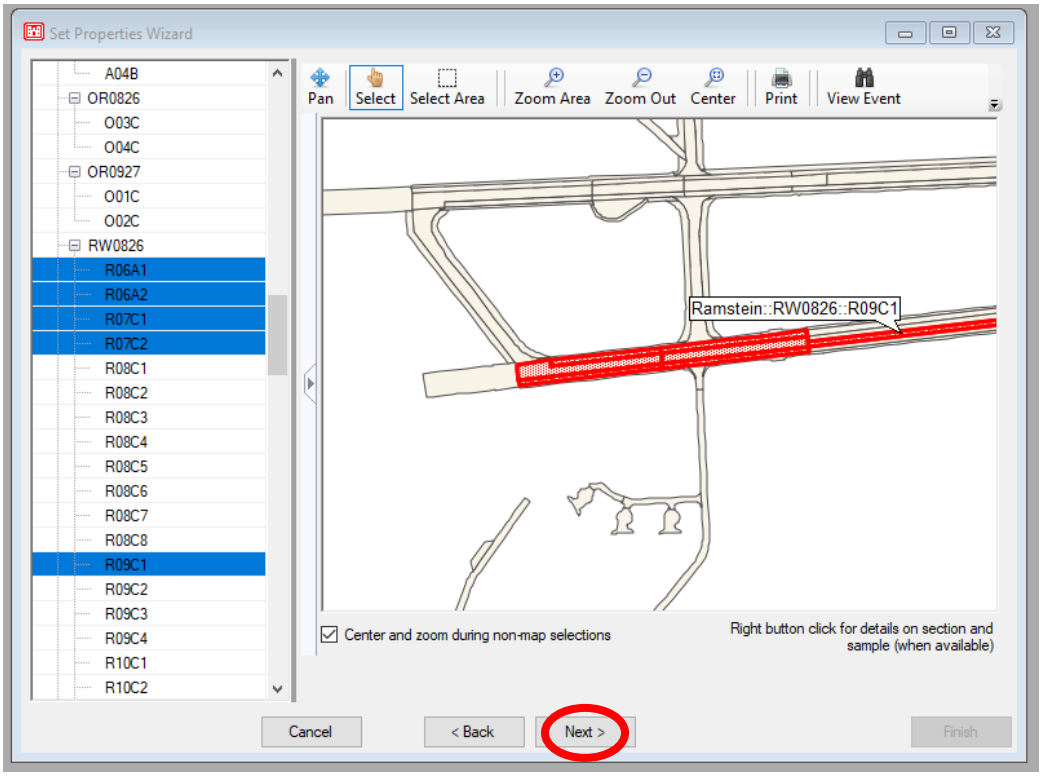
1.1.10 Click **Select None,** leave all other fields empty. Make sure the “Refine selection with GIS Map/Tree Selector” box is checked and then select **Next**.



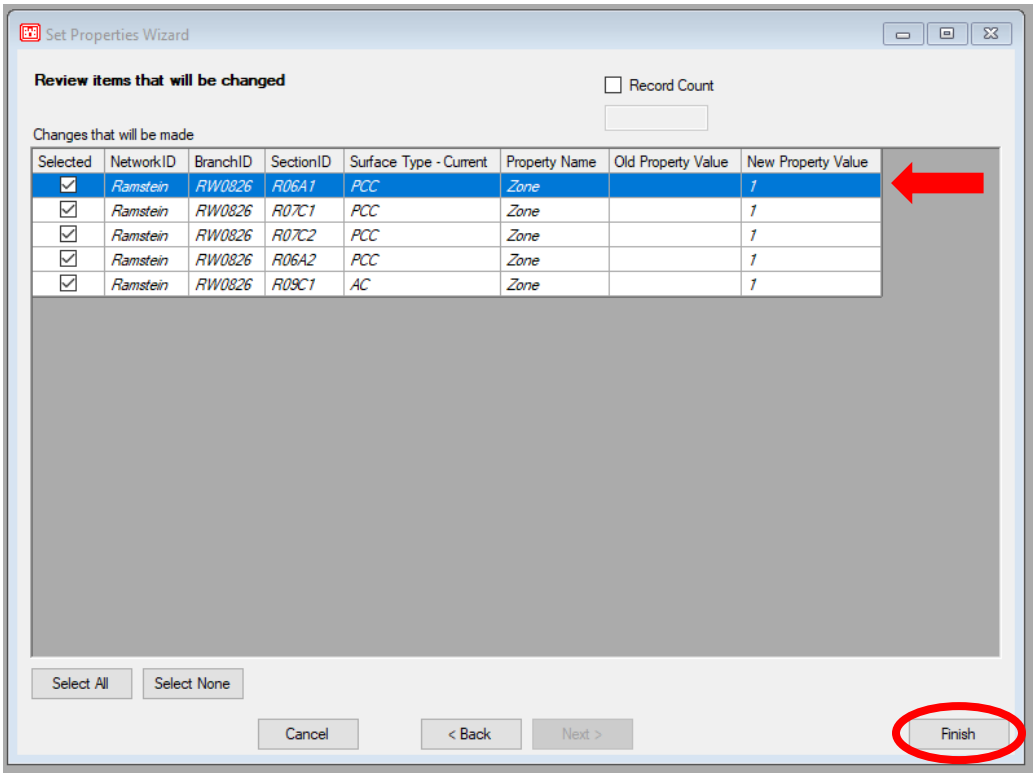
1.1.11 A new window will open with a Branch/Section list (tree) and a map.



1.1.12 On the map, you can select sections for which you wish to add the zone identifier you set up in the earlier step. You may select multiple sections. In the example here, there are multiple sections of the keel of the runway selected. Once the sections for the zone are selected click **Next**.

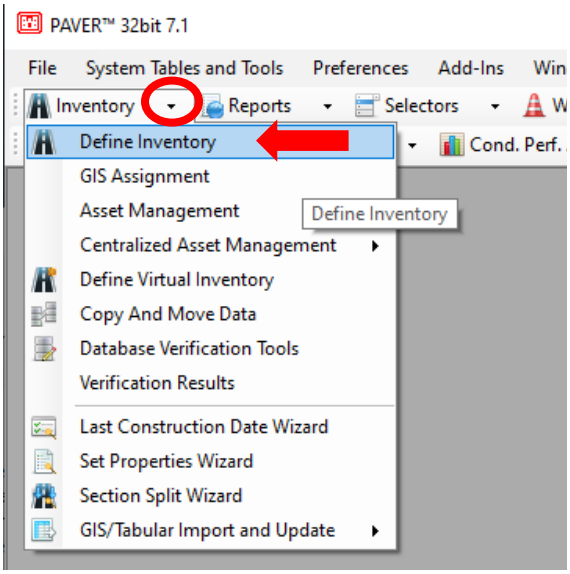


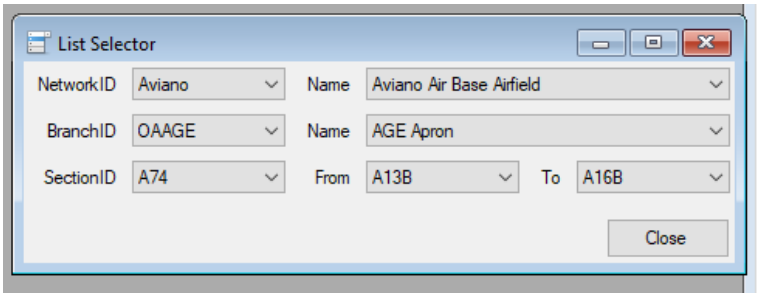
1.1.13 A new window will open that identifies the selections you made and the changes that will be made to those selections. (i.e. Each section/zone is shown with the "old" property value and the "new" property value to be added/changed.) Select **Finish** and the changes will be made to the database.

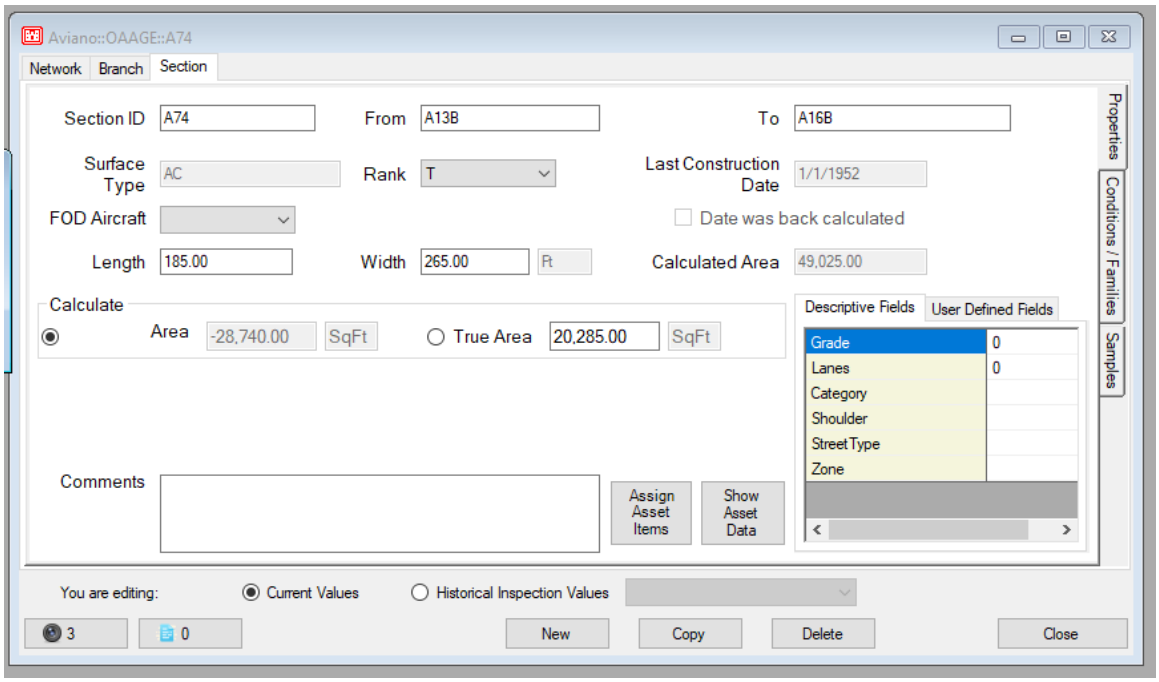


1.1.14 Repeat Steps 1.1.6 – 1.1.13 for all zones defined in Step 1.1.5 To assign Zones to a single Section continue to step 1.1.15 Task is complete once all Sections have been assigned a zone.

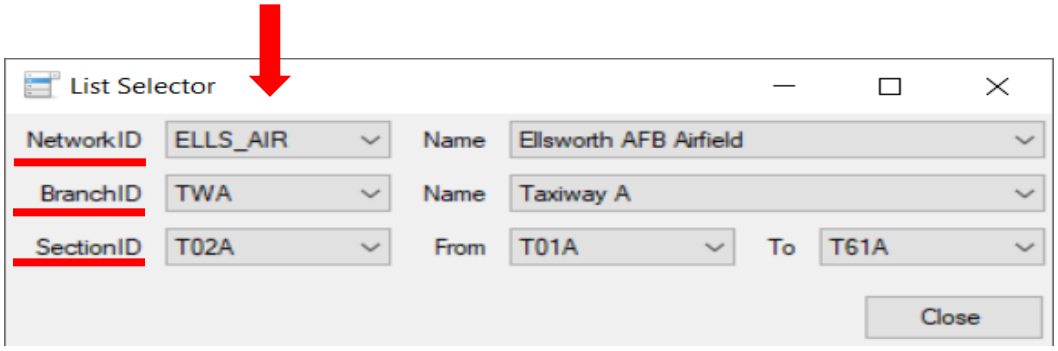
1.1.15 Single Section assignments to Zones are done by selecting **Inventory** (dropdown) from the *Upper (Middle) Toolbar* and then selecting **Define Inventory**. Two windows should open.

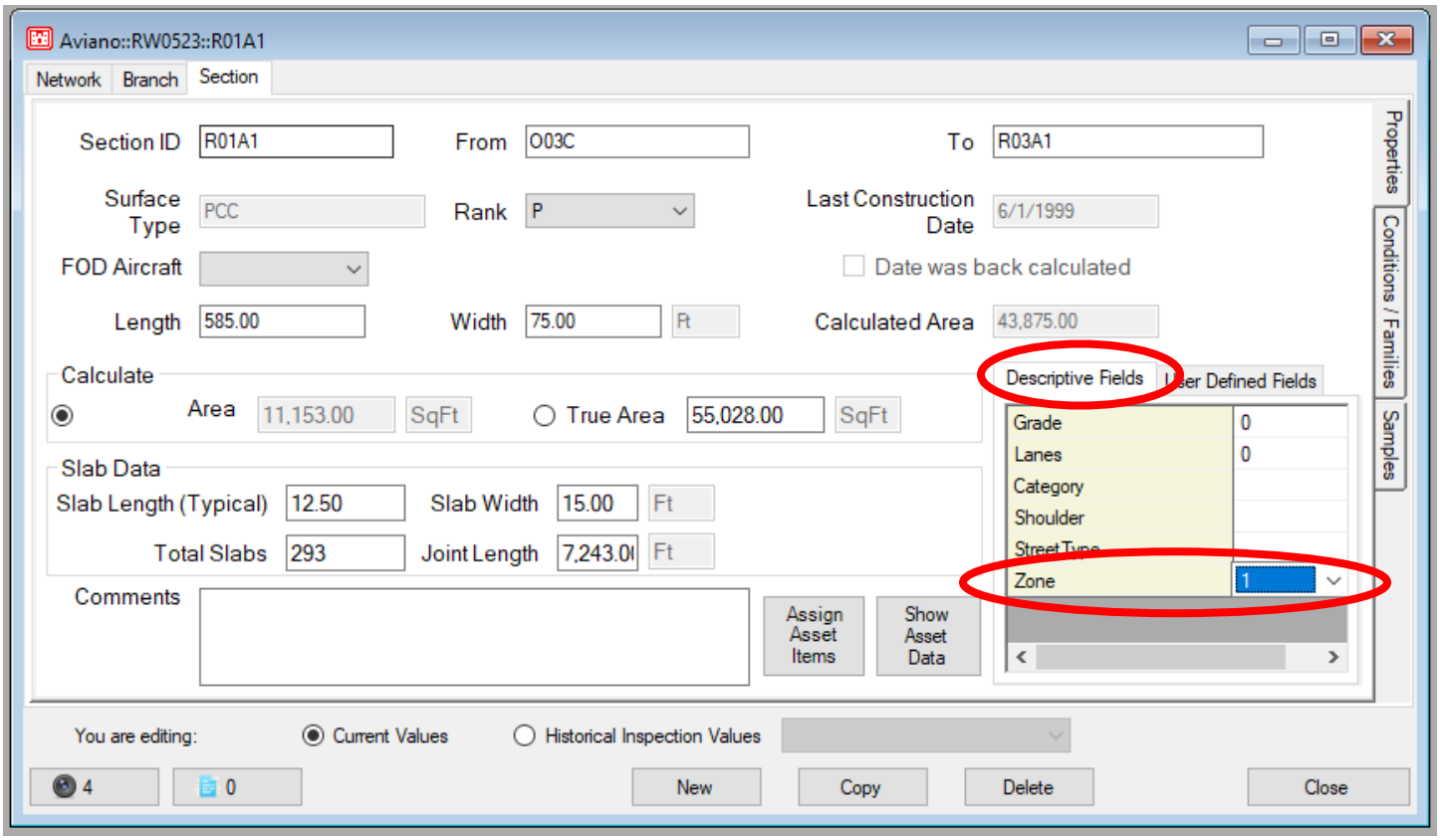






1.1.16 Use the *List Selector* window to select the NetworkID, BranchID, and SectionID. In the larger window you will find the *Descriptive Fields* box in the lower right corner. Select the dropdown selector for **Zone** and the list will populate with the *Zone* identifiers that were set up earlier in Step 1.1.5 When selected, the identifier will be added to the database. Repeat for each individual SectionID.

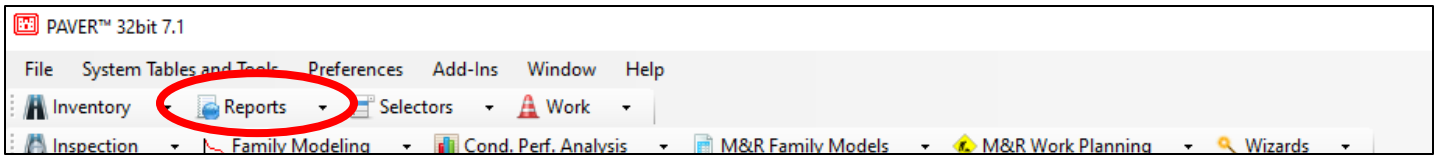




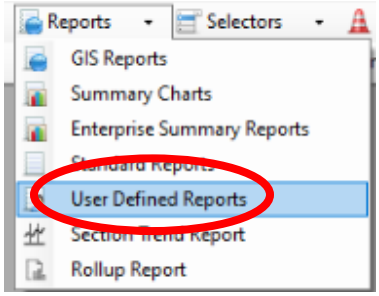
1.2 PMP Zone Map Instructions

Once PMP Zones have been defined in the PAVER .E70, a table must be created for two purposes: 1) It must be entered into the PMP Appendices Workbook to populate the Air and Roads & Parking requirements pages, 2) The information in this PMP Zone Table will be shared with the Geobase / GIS section to prepare the Maintenance Strategy Zone Maps.

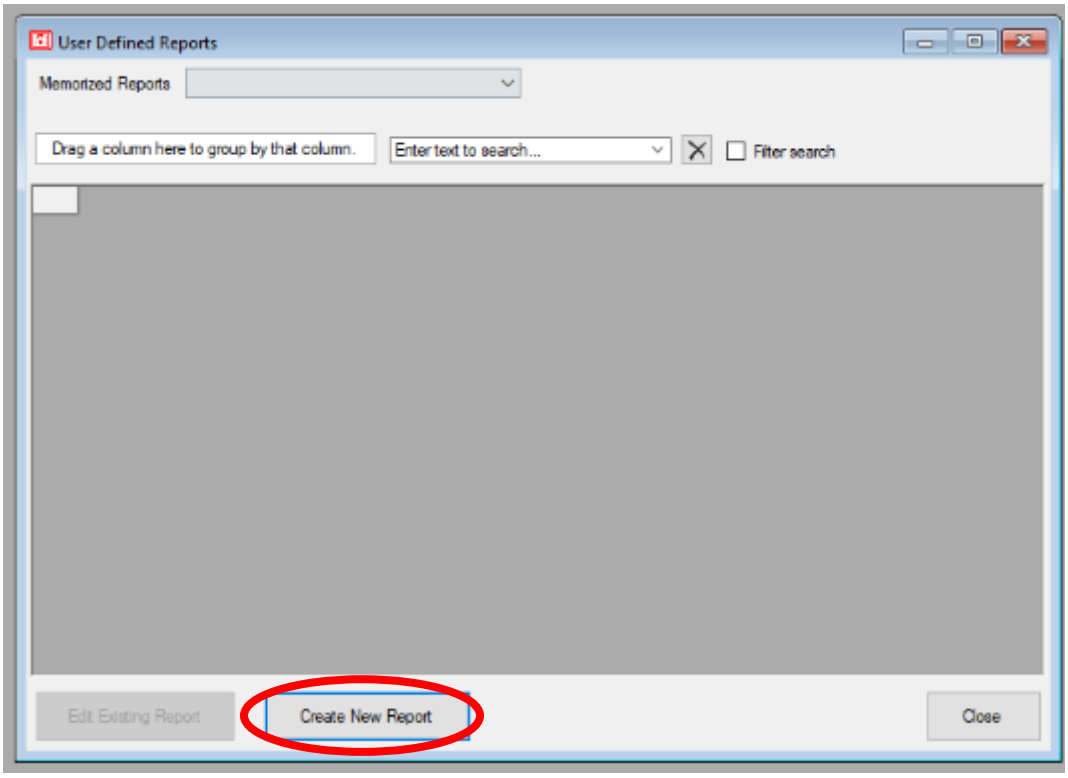
1.2.1 Open the pavement system's (AIR or RDS & PRK) .E70 database into PAVER and select "Reports" from the main menu. The .E70 database should have already been imported and PMP zones assigned per guidance in section 1.1 PMP Zone Definition.



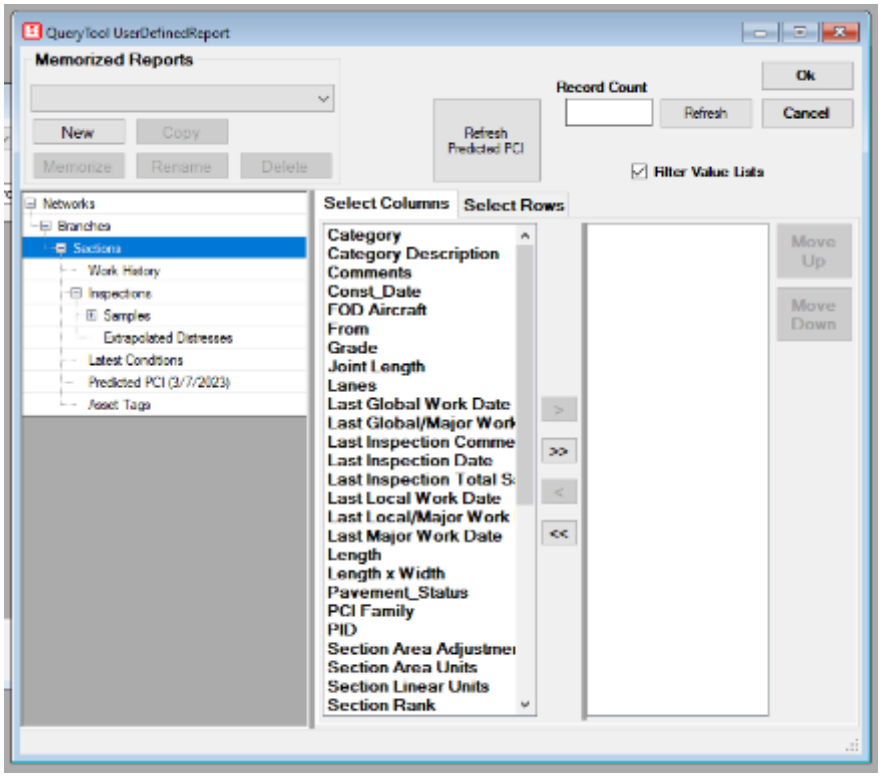
1.2.2 Use the "Reports" dropdown menu to select "User Defined Reports".



1.2.3 In the "User Defined Reports" window, select "Create New Report".

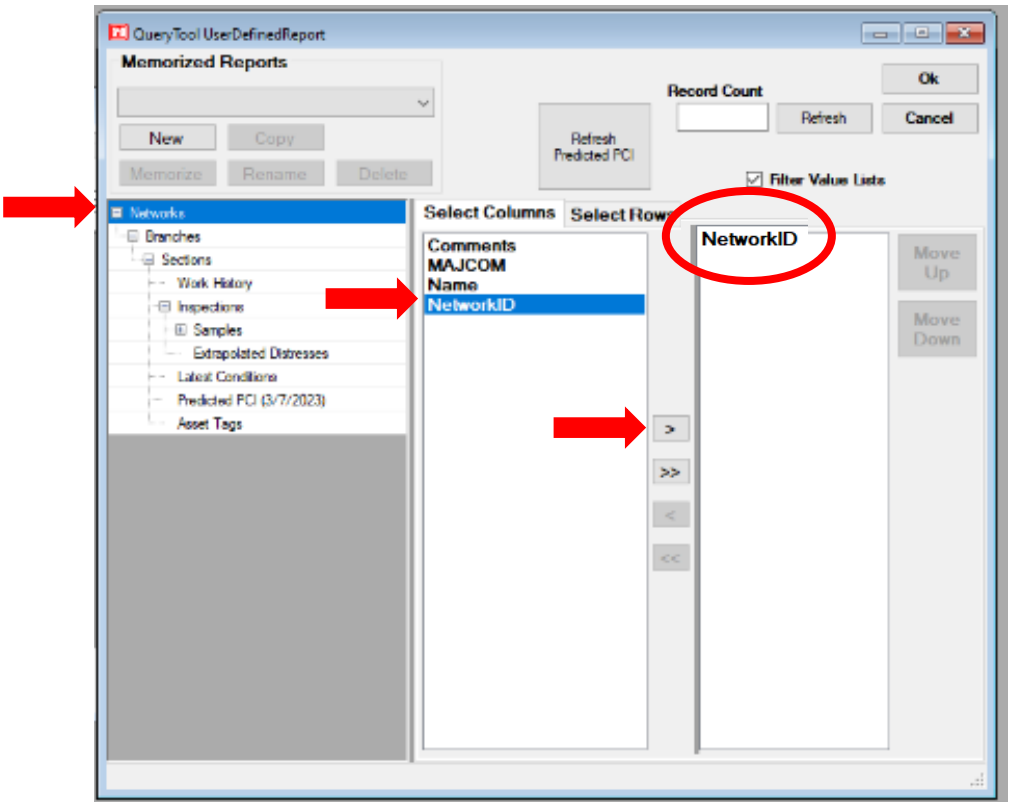


1.2.4 The “Query Tool” window will open. Here you will select the items for your report.

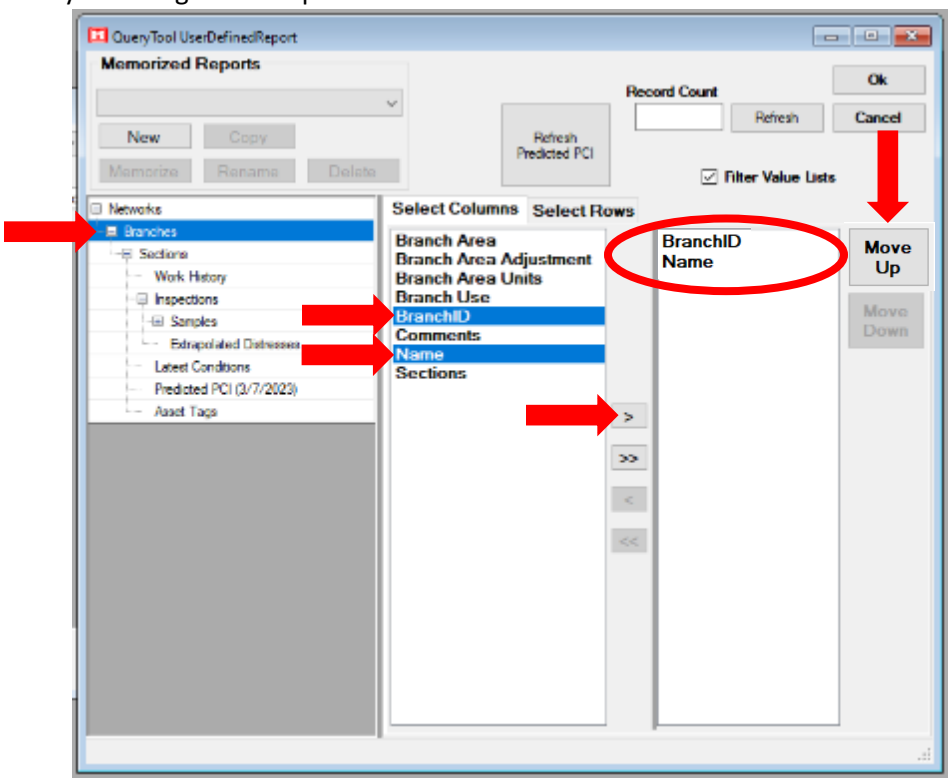


1.2.5 Select the following items ***in order***:

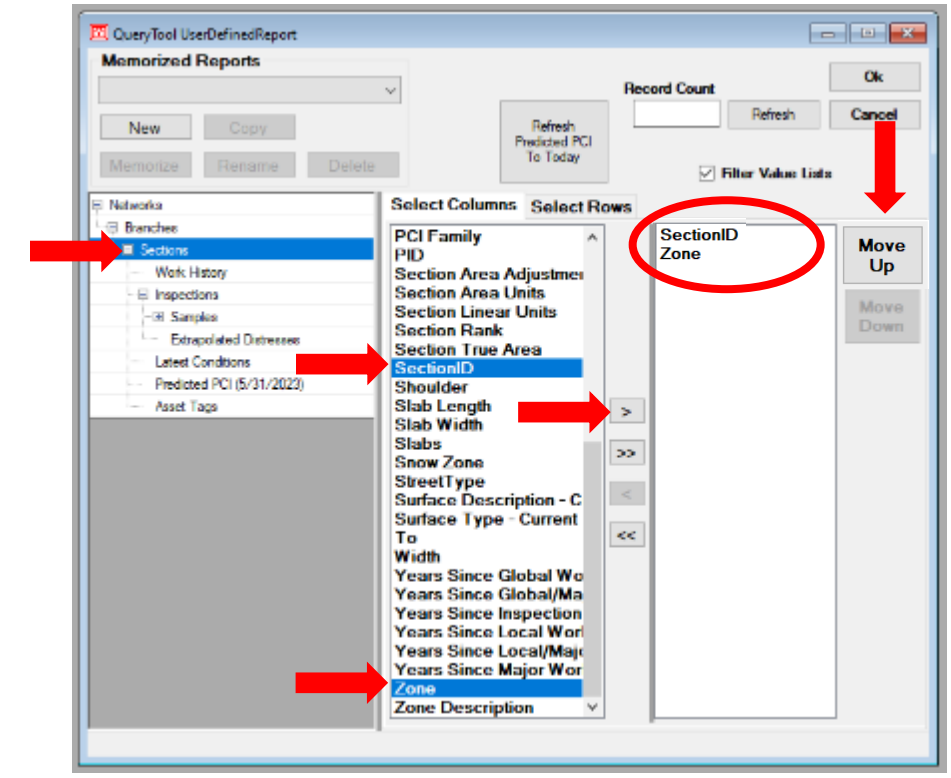
1.2.5.1 Select “Networks” in the LEFT box. Select “NetworkID” in the CENTER box and click the arrow to move it into the RIGHT box.



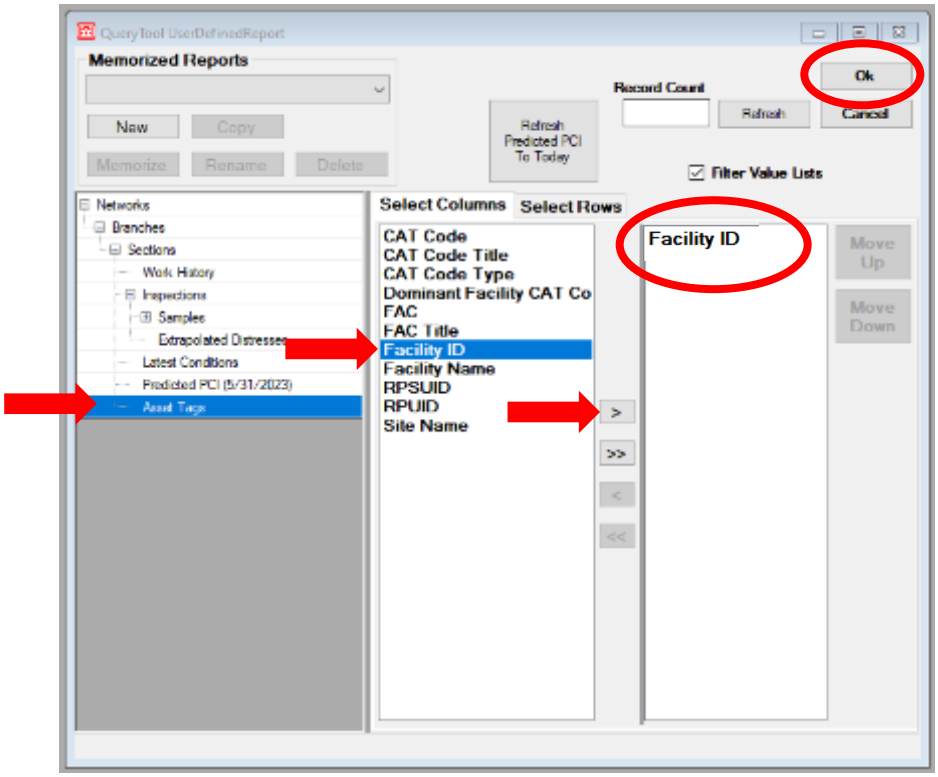
1.2.5.2 Select “Branches” in the LEFT box. Select “Name”, and “BranchID” and move it into the RIGHT box. Make sure it is in the order shown by selecting “Move Up”.



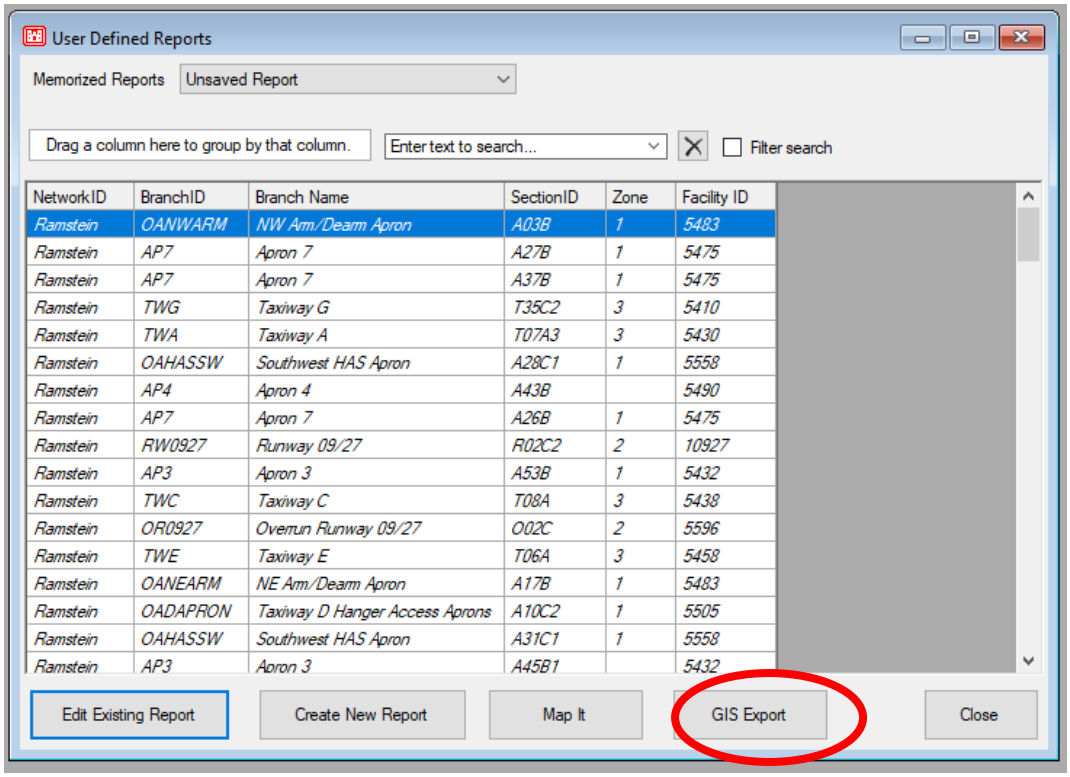
1.2.5.3 Select “Sections” in the LEFT box. Select “SectionID” and “Zone” then move it into the RIGHT box. Make sure it is in the order shown by selecting “Move Up”.



1.2.5.4 Select “Asset Tags” in the LEFT box. Select “Facility ID” then move it into the RIGHT box, then click OK.

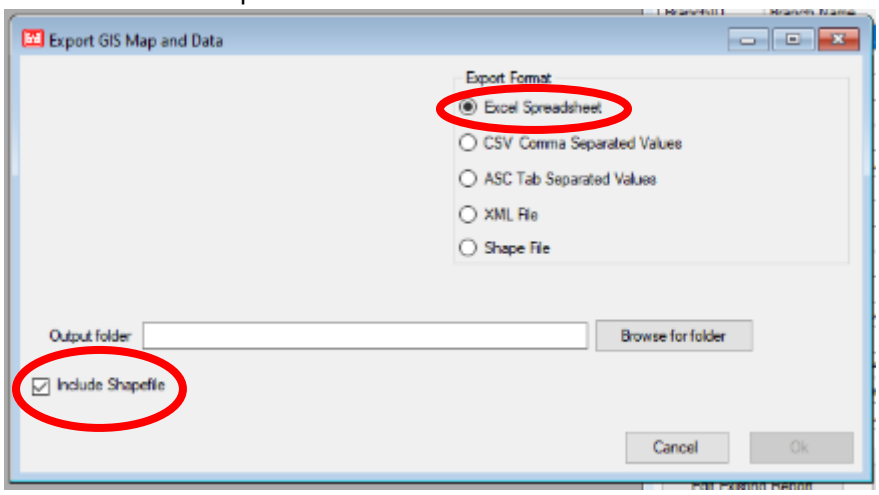


1.2.6 PAVER will build and display your report. Once complete, click “GIS Export”.

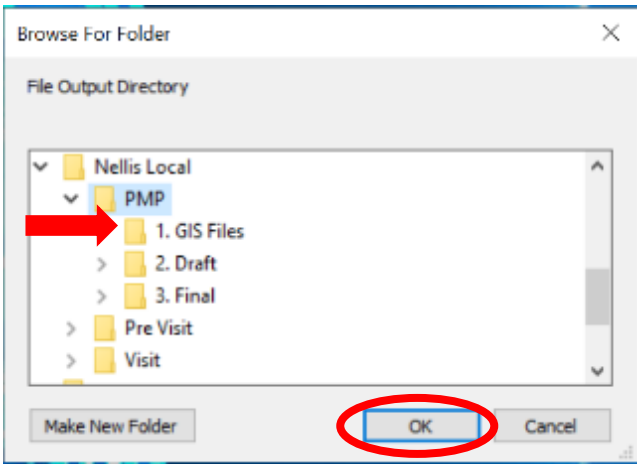


NetworkID	BranchID	Branch Name	SectionID	Zone	Facility ID
Ramstein	OANWARM	NW Arm/Dearm Apron	A03B	1	5483
Ramstein	AP7	Apron 7	A27B	1	5475
Ramstein	AP7	Apron 7	A37B	1	5475
Ramstein	TWG	Taxiway G	T35C2	3	5410
Ramstein	TWA	Taxiway A	T07A3	3	5430
Ramstein	OAHASSW	Southwest HAS Apron	A28C1	1	5558
Ramstein	AP4	Apron 4	A43B		5490
Ramstein	AP7	Apron 7	A26B	1	5475
Ramstein	RW0927	Runway 09/27	R02C2	2	10927
Ramstein	AP3	Apron 3	A53B	1	5432
Ramstein	TWC	Taxiway C	T08A	3	5438
Ramstein	OR0927	Overrun Runway 09/27	O02C	2	5596
Ramstein	TWE	Taxiway E	T06A	3	5458
Ramstein	OANEARM	NE Arm/Dearm Apron	A17B	1	5483
Ramstein	OADAPRON	Taxiway D Hanger Access Aprons	A10C2	1	5505
Ramstein	OAHASSW	Southwest HAS Apron	A31C1	1	5558
Ramstein	AP3	Apron 3	A45B1		5432

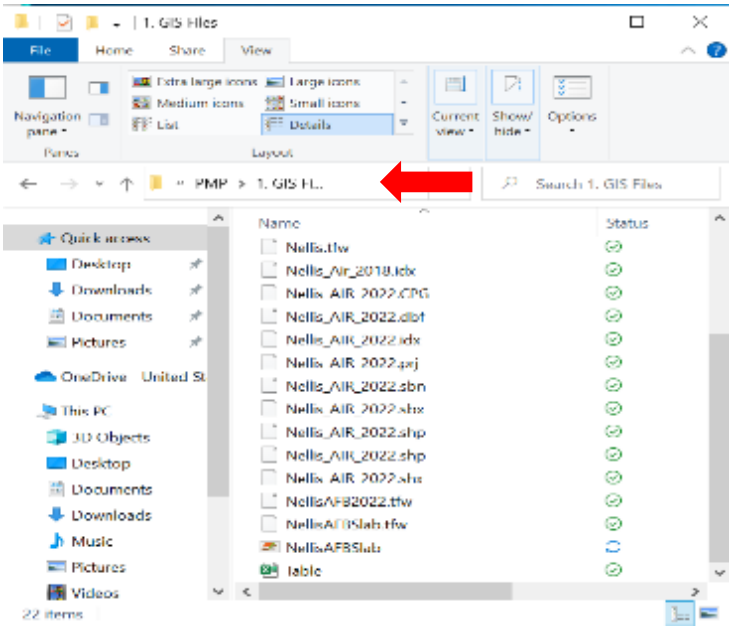
1.2.7 The “Export GIS Map and Data” window will open. Export Format should have Excel Spreadsheet selected. At the bottom-left, check the box “Include Shapefile”.



1.2.8 Now click “Browse for folder” and navigate to the location to store your table. Select the folder and click “OK” twice.



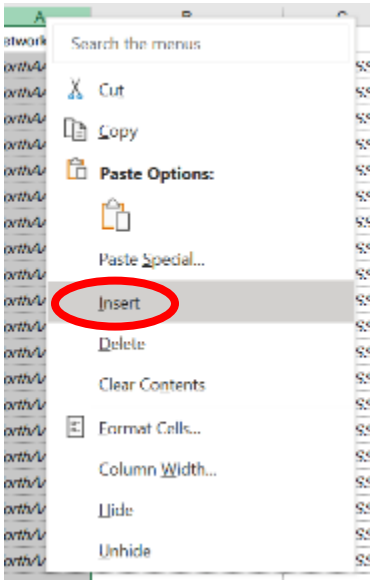
Navigate to folder for your GIS export files.



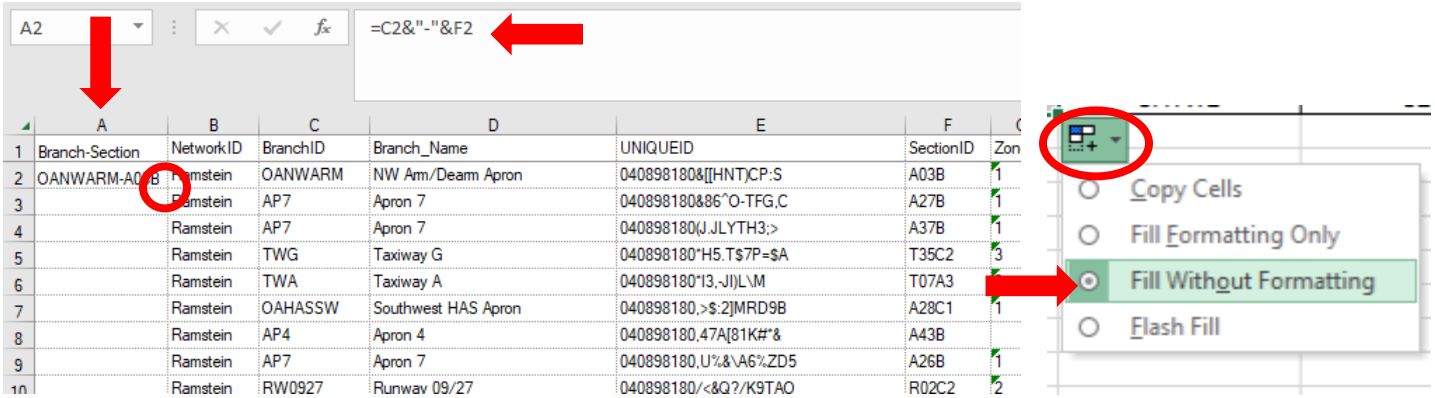
1.2.9 There will be multiple file types (.tfw, .CPG, .dbf, .prj, .sbn, .sbx, .shp, and .shx) and an Excel Table. Open the Excel file to view the Table. NOTE: The "Zone" column will be populated **IF** you have already inputted the zones into PAVER per PMP Zone Definition in PAVER Instruction. If missing or blank return to that instruction and input the zones, as needed.

	A	B	C	D	E	F	G
1	NetworkID	BranchID	Branch_Name	UNIQUEID	SectionID	Zone1	Facility_ID
2	Ramstein	OANWARM	NW Arm/Dearm Apron	040898180&[[HNT)CP:S	A03B	1	5483
3	Ramstein	AP7	Apron 7	040898180&86^O-TFG,C	A27B	1	5475
4	Ramstein	AP7	Apron 7	040898180(J.JLYTH3;>	A37B	1	5475
5	Ramstein	TWG	Taxiway G	040898180"H5.T$7P=$A	T35C2	3	5410
6	Ramstein	TWA	Taxiway A	040898180"I3,-JI)L\M	T07A3	3	5430
7	Ramstein	OAHASSW	Southwest HAS Apron	040898180,>$:2]MRD9B	A28C1	1	5558
8	Ramstein	AP4	Apron 4	040898180,47A[81K#"&	A43B		5490
9	Ramstein	AP7	Apron 7	040898180,U%&\A6%ZD5	A26B	1	5475
10	Ramstein	RW0927	Runway 09/27	040898180/<&Q?/K9TAO	R02C2	2	10927
11	Ramstein	AP3	Apron 3	040898180/EA^:1?=07E	A53B	1	5432
12	Ramstein	TWC	Taxiway C	040898180:(=V2K):B_^	T08A	3	5438
13	Ramstein	OR0927	Overrun Runway 09/27	040898180[O5-"VO>;$Z	O02C	2	5596
14	Ramstein	TWE	Taxiway E	040898180\+UKZK5Z'FR	T06A	3	5458
15	Ramstein	OANEARM	NE Arm/Dearm Apron	040898180001661SPU"Q	A17B	1	5483
16	Ramstein	OADAPRON	Taxiway D Hanger Access Aprons	040898180ACE_#E3,TL&	A10C2	1	5505
17	Ramstein	OAHASSW	Southwest HAS Apron	040898180CQ5:=O6FNWG	A31C1	1	5558
18	Ramstein	AP3	Apron 3	040898180D3P&.UI64+Q	A45B1		5432

1.2.10 A new column will need to be inserted. Right-click on column A and then click "Insert".

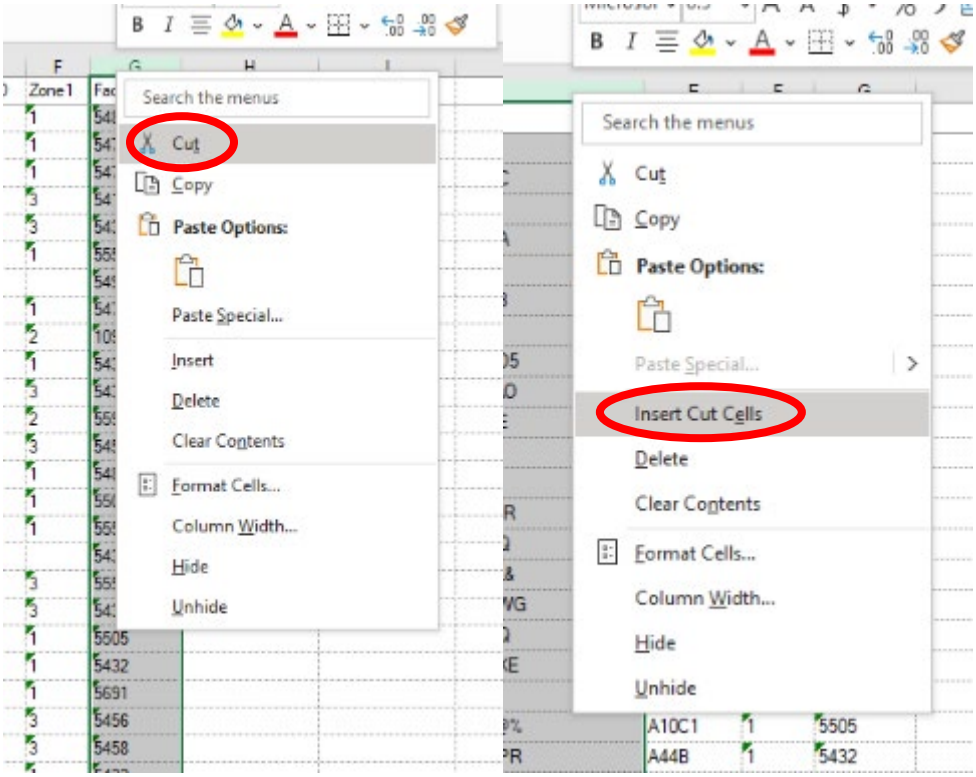


1.2.11 Label the inserted column “Branch-Section” and in cell A2, insert the formula: =C2&"-"&F2. With cell A2 highlighted double click on the small box in the bottom right corner to auto fill the formula down to the last entry. Or drag it down to the last entry to do the same. Formatting does not matter but you can “Fill Without Formatting”.



	A	B	C	D	E	F	G
1	Branch-Section	NetworkID	BranchID	Branch_Name	UNIQUEID	SectionID	Zon
2	OANWARM-A03B	Ramstein	OANWARM	NW Arm/Dearm Apron	040898180&[[HNT)CP:S	A03B	1
3		Ramstein	AP7	Apron 7	040898180&86^O-TFG,C	A27B	1
4		Ramstein	AP7	Apron 7	040898180(J.JLYTH3;>	A37B	1
5		Ramstein	TWG	Taxiway G	040898180"H5.T$7P=$A	T35C2	3
6		Ramstein	TWA	Taxiway A	040898180"I3,-JI)L\M	T07A3	
7		Ramstein	OAHASSW	Southwest HAS Apron	040898180,>$:2]MRD9B	A28C1	1
8		Ramstein	AP4	Apron 4	040898180,47A[81K#"&	A43B	
9		Ramstein	AP7	Apron 7	040898180,U%&\A6%ZD5	A26B	1
10		Ramstein	RW0927	Runway 09/27	040898180/<&Q?/K9TAO	R02C2	2

1.2.12 Re-order the columns so that your table has the following column order. To move Facility_ID: Right-click on column H, select “Cut”, then right-click on column E and “Insert Cut Cells”. To move UNIQUEID: Right-click on column F, select “Cut”, then right-click on column I and “Insert Cut Cells”.
Branch-Section – NetworkID – BranchID – Branch_Name – Facility_ID – SectionID – Zone – UNIQUEID – Any other columns, as desired.

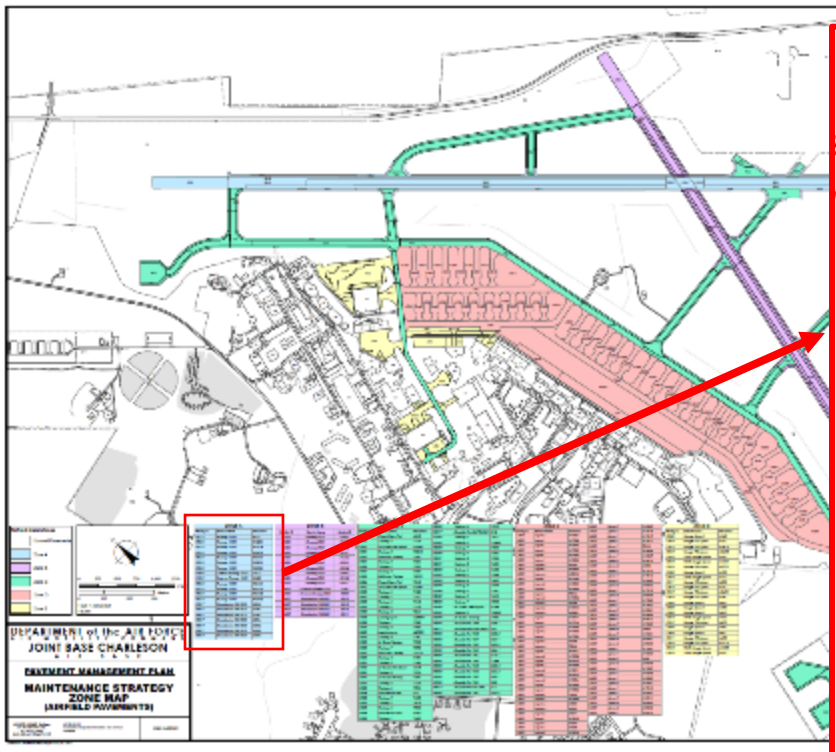


	A	B	C	D	E	F	G	H
1	Branch-Section	NetworkID	BranchID	Branch_Name	Facility_ID	SectionID	Zone1	UNIQUEID
2	OANWARM-A03B	Ramstein	OANWARM	NW Arm/Dearm Apron	5483	A03B	1	040898180&[[HNT)CP:S
3	AP7-A27B	Ramstein	AP7	Apron 7	5475	A27B	1	040898180&86^O-TFG,C
4	AP7-A37B	Ramstein	AP7	Apron 7	5475	A37B	1	040898180(J.JLYTH3;>
5	TWG-T35C2	Ramstein	TWG	Taxiway G	5410	T35C2	3	040898180"H5.T$7P=$A

SAVE YOUR WORK!!

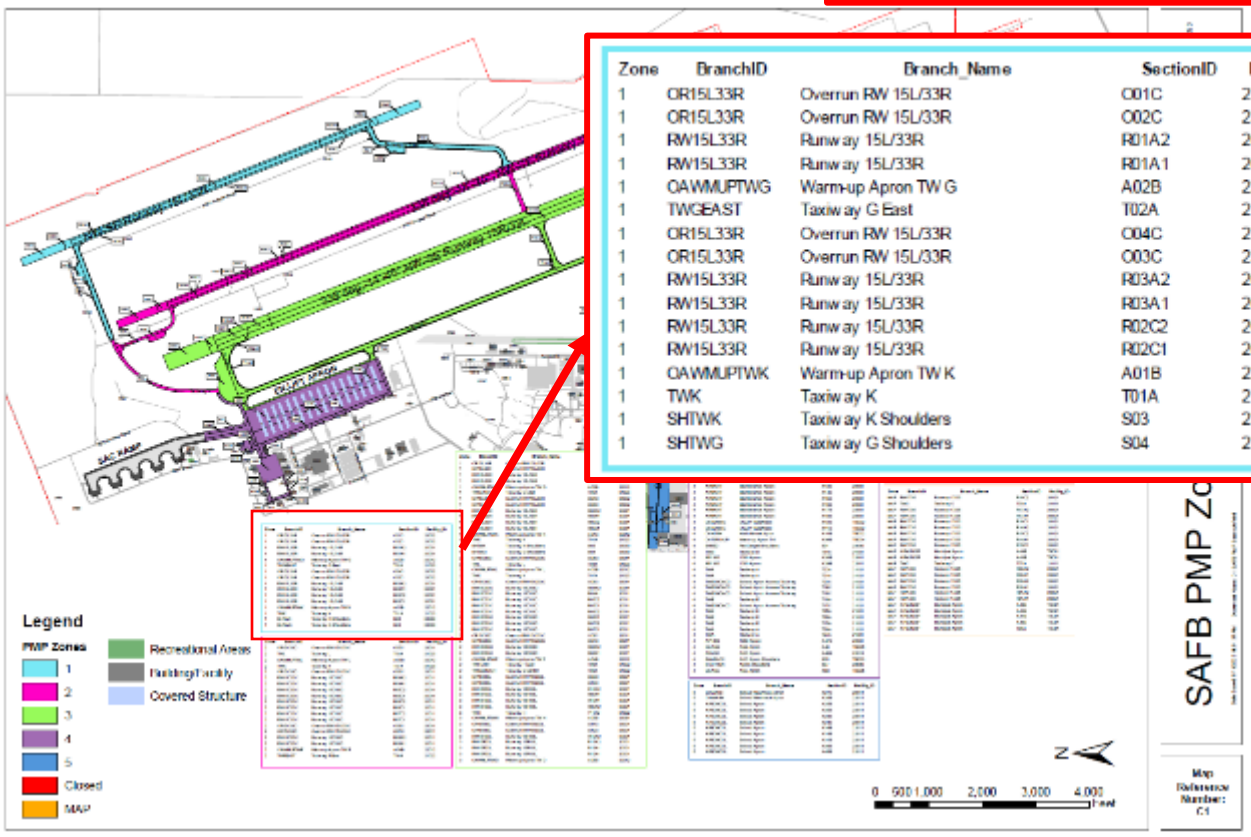
1.2.13 Share this table and the exported files from step 1.2.10 with your Geobase / GIS section to prepare the Maintenance Strategy Maps, if needed see step 1.2.15 to import the files to create these maps. The recommendation is to list the Facility ID, Branch Name, and SectionID under each Zone. If other columns are desired, they will need to be pulled within Step 1.2.5. A few examples are shown below.

JB Charleston AFB



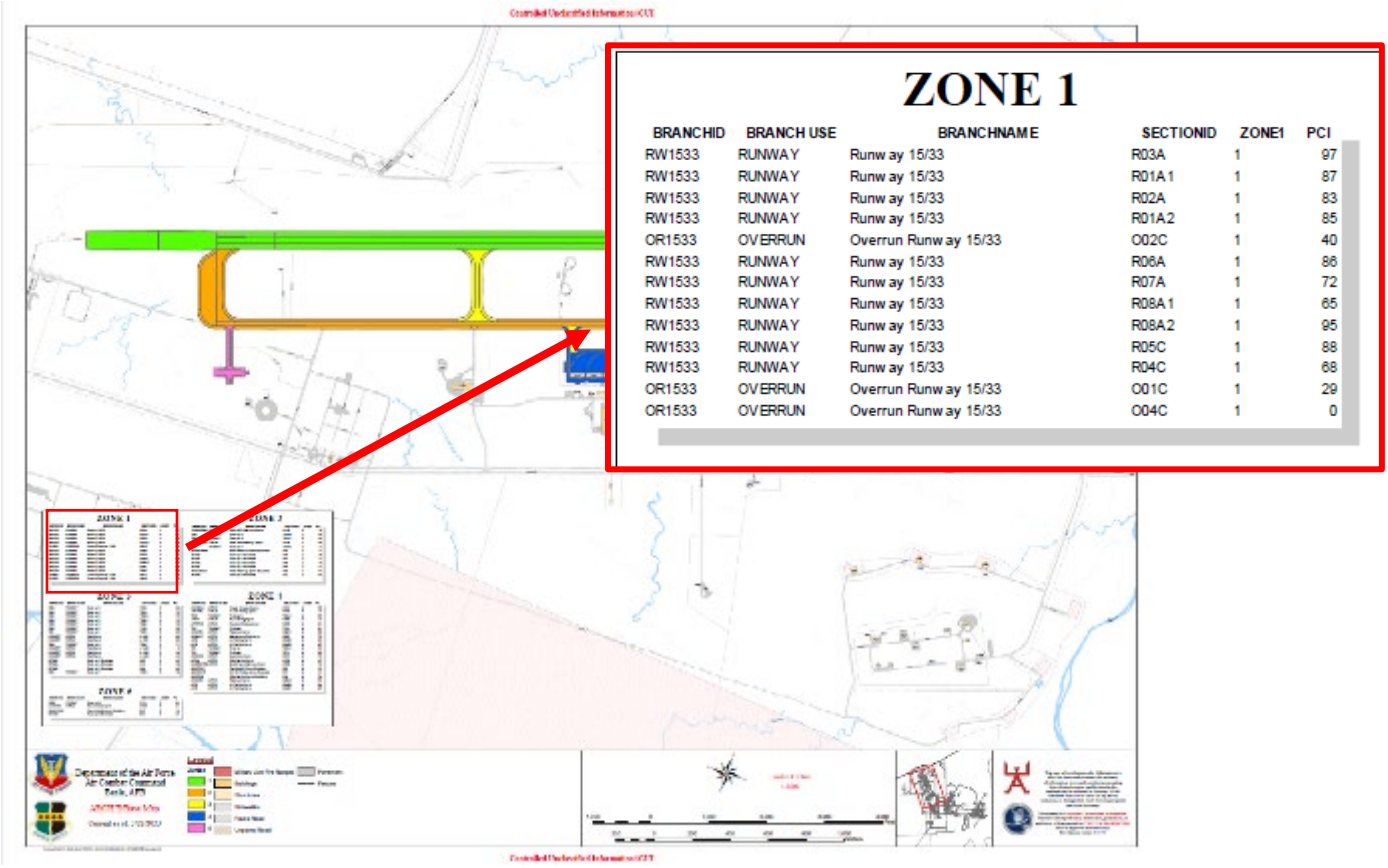
ZONE A		
Facility ID	Branch Name	SectionID
15033	Runway 15/33	R13C
15033	Runway 15/33	R12C1
15033	Runway 15/33	R12C4
15033	Runway 15/33	R02C2
15033	Runway 15/33	R04A1
15033	Runway 15/33	R02C1
15033	Runway 15/33	R03C1
11600	Overrun Runway 15/33	O01C
11600	Overrun Runway 15/33	O02C
15033	Runway 15/33	R01A1
15033	Runway 15/33	R03C2
15033	Runway 15/33	R01A2
15033	Runway 15/33	R04A2
16607	Shoulder for RW15/33	S06-6
16607	Shoulder for RW15/33	S06-3
16607	Shoulder for RW15/33	S06-1
16607	Shoulder for RW15/33	S06-4
16607	Shoulder for RW15/33	S06-2
16607	Shoulder for RW15/33	S06-5
16607	Shoulder for RW15/33	S06-7

Sheppard AFB



Zone	BranchID	Branch_Name	SectionID	Facility_ID
1	OR15L33R	Overrun RW 15L/33R	O01C	23002
1	OR15L33R	Overrun RW 15L/33R	O02C	23002
1	RW15L33R	Runway 15L/33R	R01A2	20031
1	RW15L33R	Runway 15L/33R	R01A1	20031
1	OAWMUPTWG	Warm-up Apron TW G	A02B	22012
1	TWGEAST	Taxiway G East	T02A	21023
1	OR15L33R	Overrun RW 15L/33R	O04C	23002
1	OR15L33R	Overrun RW 15L/33R	O03C	23002
1	RW15L33R	Runway 15L/33R	R03A2	20031
1	RW15L33R	Runway 15L/33R	R03A1	20031
1	RW15L33R	Runway 15L/33R	R02C2	20031
1	RW15L33R	Runway 15L/33R	R02C1	20031
1	OAWMUPTWK	Warm-up Apron TW K	A01B	22012
1	TWK	Taxiway K	T01A	21023
1	SHTWK	Taxiway K Shoulders	S03	23030
1	SHTWG	Taxiway G Shoulders	S04	23030

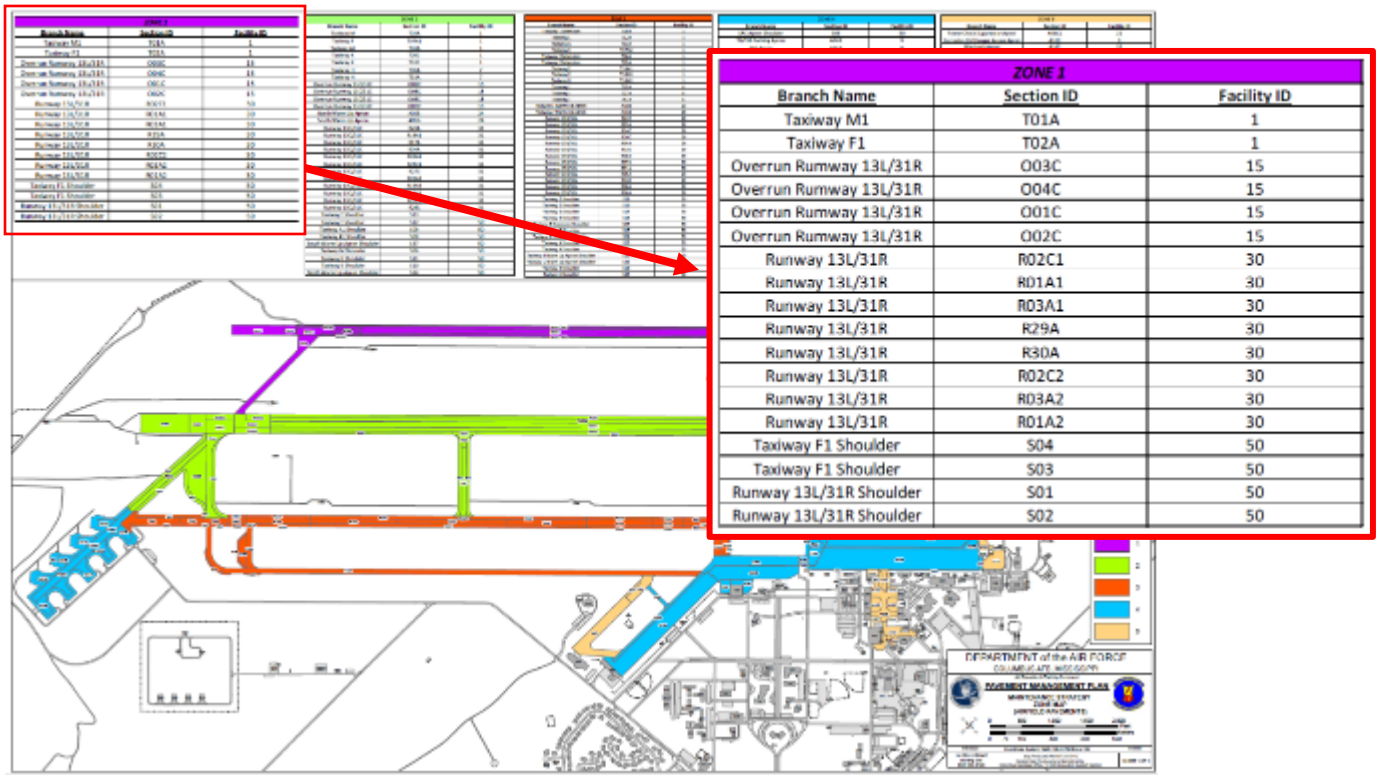
Beale AFB



ZONE 1

BRANCHID	BRANCH USE	BRANCHNAME	SECTIONID	ZONE1	PCI
RW1533	RUNWAY	Runway 15/33	R03A	1	97
RW1533	RUNWAY	Runway 15/33	R01A1	1	87
RW1533	RUNWAY	Runway 15/33	R02A	1	83
RW1533	RUNWAY	Runway 15/33	R01A2	1	85
OR1533	OVERRUN	Overrun Runway 15/33	O02C	1	40
RW1533	RUNWAY	Runway 15/33	R06A	1	86
RW1533	RUNWAY	Runway 15/33	R07A	1	72
RW1533	RUNWAY	Runway 15/33	R08A1	1	65
RW1533	RUNWAY	Runway 15/33	R08A2	1	95
RW1533	RUNWAY	Runway 15/33	R05C	1	88
RW1533	RUNWAY	Runway 15/33	R04C	1	68
OR1533	OVERRUN	Overrun Runway 15/33	O01C	1	29
OR1533	OVERRUN	Overrun Runway 15/33	O04C	1	0

Columbus AFB



ZONE 1

Branch Name	Section ID	Facility ID
Taxiway M1	T01A	1
Taxiway F1	T02A	1
Overrun Runway 13L/31R	O03C	15
Overrun Runway 13L/31R	O04C	15
Overrun Runway 13L/31R	O01C	15
Overrun Runway 13L/31R	O02C	15
Runway 13L/31R	R02C1	30
Runway 13L/31R	R01A1	30
Runway 13L/31R	R03A1	30
Runway 13L/31R	R29A	30
Runway 13L/31R	R30A	30
Runway 13L/31R	R02C2	30
Runway 13L/31R	R03A2	30
Runway 13L/31R	R01A2	30
Taxiway F1 Shoulder	S04	50
Taxiway F1 Shoulder	S03	50
Runway 13L/31R Shoulder	S01	50
Runway 13L/31R Shoulder	S02	50

1.2.14 To import the files from step 1.2.10 and prepare the Maintenance Strategy Maps go to your ArcGIS software and open a blank installation map with the title page.

1.2.14.1 In the *Maps* tab, click “Add data” and select “Import file”. The Import file pane appears.

1.2.14.2 Click “Browse” and select the zipped shapefile you want to import (.tfw, .CPG, .dbf, .prj, .sbn, .sbx, .shp, and .shx). Once selected, the file name appears in the “Select a file” to import text box. Click “Import”.

1.2.14.3 Set the following options for the layer:

- If the imported shapefile contains multiple polygons, choose whether to combine all imported polygons into a single site or to a create a separate site for each polygon. Select *Yes* to combine polygons into a single site or *No* to save each polygon as a separate site. To modify the selection of polygons, click “Edit selection”.
- Note: If your file contains more than 1,000 polygons, you must click “Edit selection” and select a maximum of 1,000.
- Use the “Choose column for site name” drop-down menu to confirm or select the column (Zone) that will be used for the site name.
- Optionally, edit the layer name in the “New layer name” text box.
- Check the Open all labels for imported data check box to label each of the sites.

1.2.14.4 When you are finished, click “Next”.

1.2.14.5 Change the Border and Fill properties for the layer(s). Click Save when you are finished. Your sites are saved as a new layer in the current project, under the Polygons (sites) section.

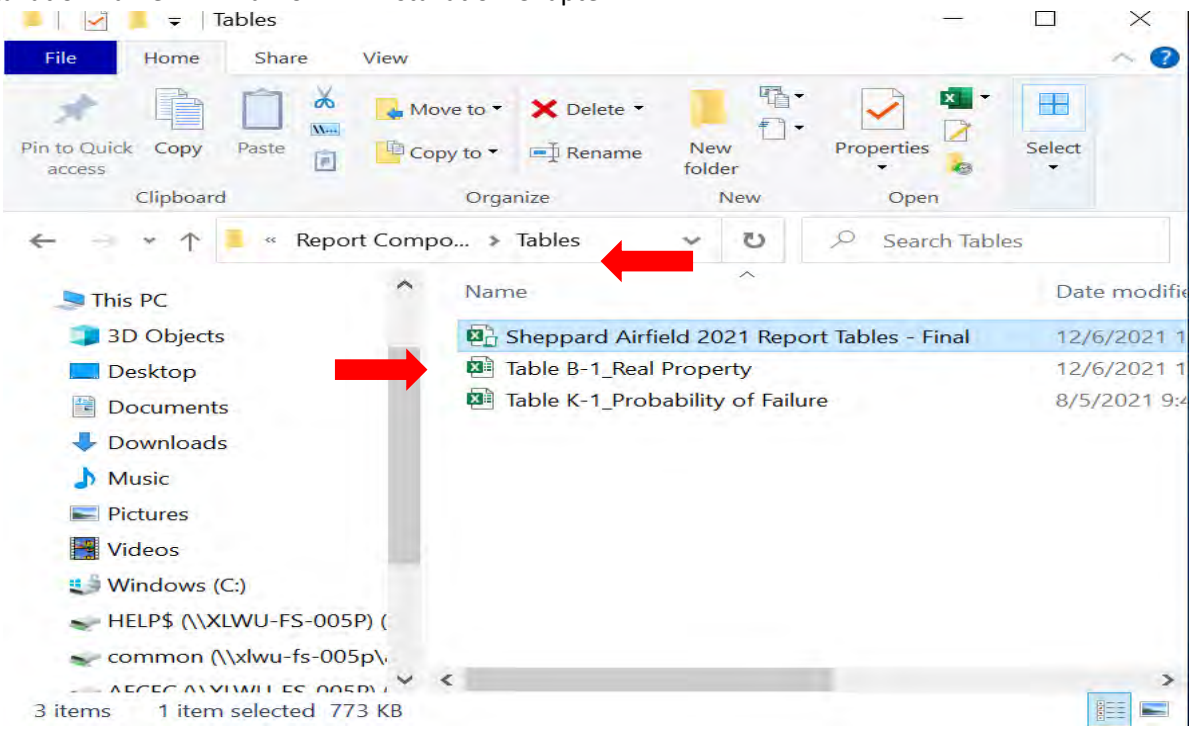
1.2.14.6 Add in a Legend for each zone which shows, at a minimum, Facility ID, Branch Name, and Section ID. If other columns were pulled in step 1.2.5 and are desired to be added, then include them as well. Examples are shown in step 1.2.14.

ZONE A		
Facility ID	Branch Name	SectionID

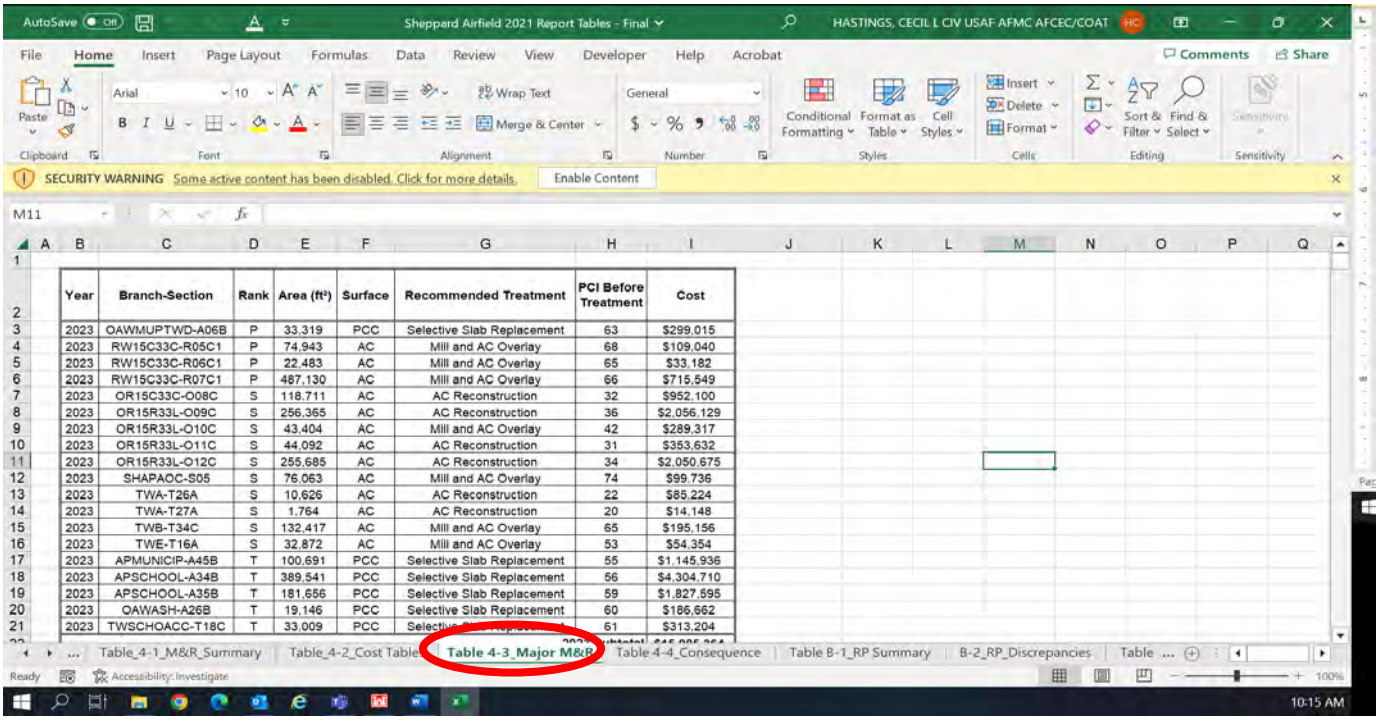
1.2.14.7 Perform additional tasks or click “I'm done” to close the workflow pane.

2.1 PMP Major M&R (MMR) Table Instructions

2.1.1 Retrieve the *Current* digital (Excel) PCI report for your installation. You should have the CD with the report and all data. Open the folder named "YR-PCI-Airfield", or "YR-PCI-Roads and Parking" depending on the desired system. Open the folder named "Report Components". Open the folder named "Tables". Select and open the Excel spreadsheet with "Installation name … - Final" or "YR-Installation-Chapter-4".

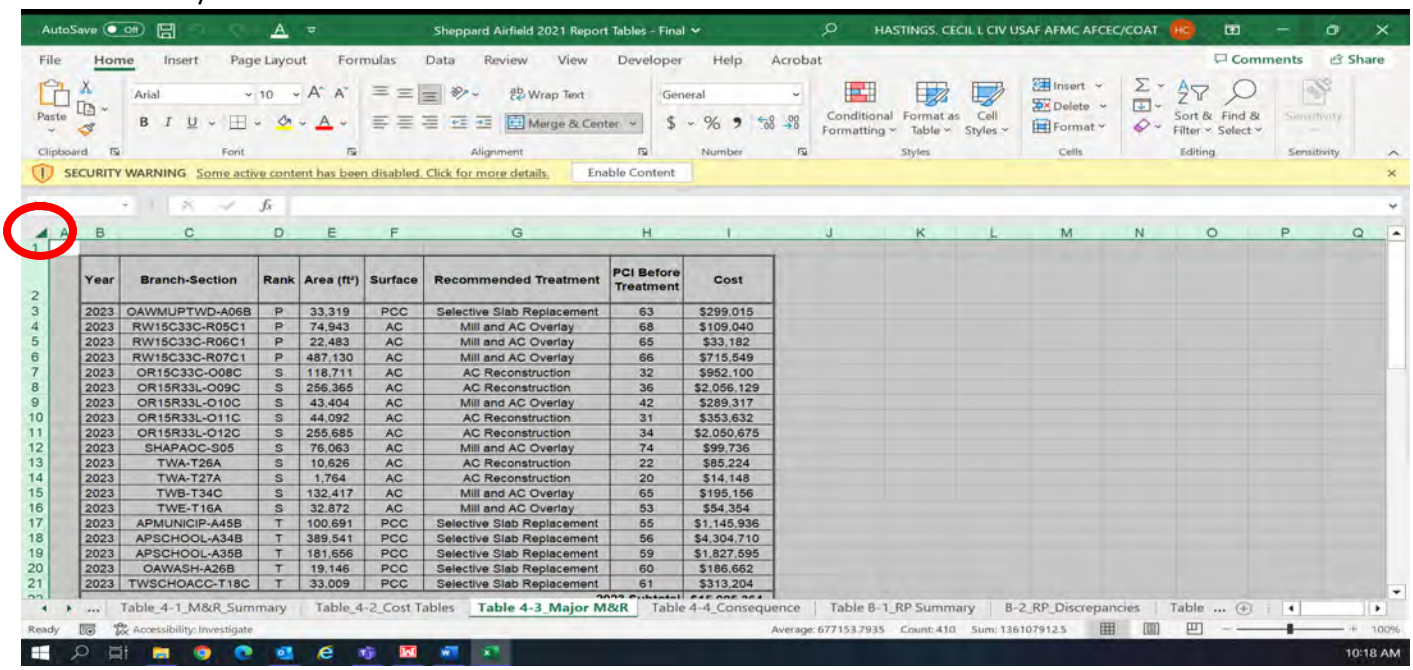


2.1.2 Once the spreadsheet is open, go to the tab "Table 4-3_Major M&R" (Table numbers could differ).



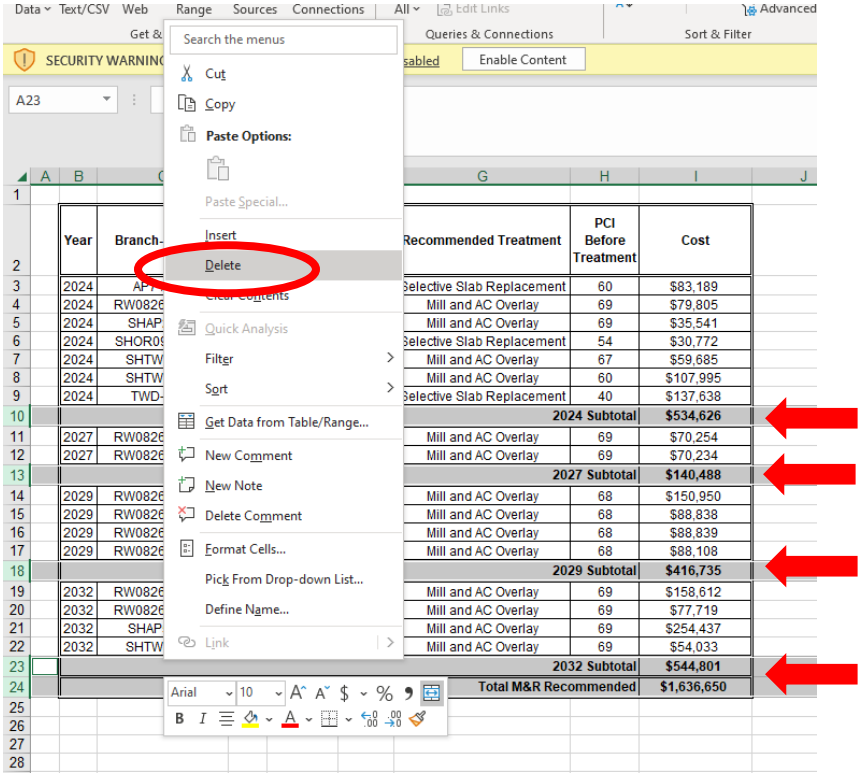
Year	Branch-Section	Rank	Area (ft²)	Surface	Recommended Treatment	PCI Before Treatment	Cost
2023	OAWMUPTWD-A06B	P	33,319	PCC	Selective Slab Replacement	63	$299,015
2023	RW15C33C-R05C1	P	74,943	AC	Mill and AC Overlay	68	$109,040
2023	RW15C33C-R06C1	P	22,483	AC	Mill and AC Overlay	65	$33,182
2023	RW15C33C-R07C1	P	487,130	AC	Mill and AC Overlay	66	$715,549
2023	OR15C33C-O08C	S	118,711	AC	AC Reconstruction	32	$952,100
2023	OR15R33L-O09C	S	256,365	AC	AC Reconstruction	36	$2,056,129
2023	OR15R33L-O10C	S	43,404	AC	Mill and AC Overlay	42	$289,317
2023	OR15R33L-O11C	S	44,092	AC	AC Reconstruction	31	$353,632
2023	OR15R33L-O12C	S	255,685	AC	AC Reconstruction	34	$2,050,675
2023	SHAPAOC-S05	S	76,063	AC	Mill and AC Overlay	74	$99,736
2023	TWA-T26A	S	10,626	AC	AC Reconstruction	22	$85,224
2023	TWA-T27A	S	1,764	AC	AC Reconstruction	20	$14,148
2023	TWB-T34C	S	132,417	AC	Mill and AC Overlay	65	$195,156
2023	TWE-T16A	S	32,872	AC	Mill and AC Overlay	53	$54,354
2023	APMUNICIP-A45B	T	100,691	PCC	Selective Slab Replacement	55	$1,145,936
2023	APSCHOOL-A34B	T	389,541	PCC	Selective Slab Replacement	56	$4,304,710
2023	APSCHOOL-A35B	T	181,656	PCC	Selective Slab Replacement	59	$1,827,595
2023	OAWASH-A26B	T	19,146	PCC	Selective Slab Replacement	60	$186,662
2023	TWSCHOACC-T18C	T	33,009	PCC	Selective	61	$313,204

2.1.3 Select the entire page using the button and copy the entire page and paste the data in a new workbook that has been saved to your selected location.



Year	Branch-Section	Rank	Area (ft²)	Surface	Recommended Treatment	PCI Before Treatment	Cost
2023	OAWMUPTWD-A06B	P	33,319	PCC	Selective Slab Replacement	63	$299,015
2023	RW15C33C-R05C1	P	74,943	AC	Mill and AC Overlay	68	$109,040
2023	RW15C33C-R06C1	P	22,483	AC	Mill and AC Overlay	65	$33,182
2023	RW15C33C-R07C1	P	487,130	AC	Mill and AC Overlay	66	$715,549
2023	OR15C33C-O08C	S	118,711	AC	AC Reconstruction	32	$952,100
2023	OR15R33L-O09C	S	256,365	AC	AC Reconstruction	36	$2,056,129
2023	OR15R33L-O10C	S	43,404	AC	Mill and AC Overlay	42	$289,317
2023	OR15R33L-O11C	S	44,092	AC	AC Reconstruction	31	$353,632
2023	OR15R33L-O12C	S	255,685	AC	AC Reconstruction	34	$2,050,675
2023	SHAPAOC-S05	S	76,063	AC	Mill and AC Overlay	74	$99,736
2023	TWA-T26A	S	10,626	AC	AC Reconstruction	22	$85,224
2023	TWA-T27A	S	1,764	AC	AC Reconstruction	20	$14,148
2023	TWB-T34C	S	132,417	AC	Mill and AC Overlay	65	$195,156
2023	TWE-T16A	S	32,872	AC	Mill and AC Overlay	53	$54,354
2023	APMUNICIP-A45B	T	100,691	PCC	Selective Slab Replacement	55	$1,145,936
2023	APSCHOOL-A34B	T	389,541	PCC	Selective Slab Replacement	56	$4,304,710
2023	APSCHOOL-A35B	T	181,656	PCC	Selective Slab Replacement	59	$1,827,595
2023	OAWASH-A26B	T	19,146	PCC	Selective Slab Replacement	60	$186,662
2023	TWSCHOACC-T18C	T	33,009	PCC	Selective Slab Replacement	61	$313,204

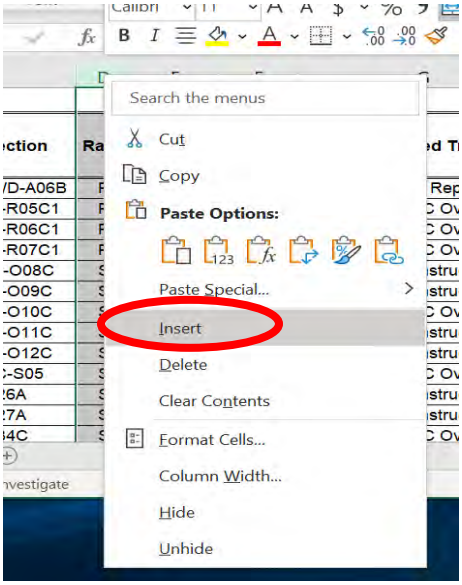
2.1.4 Delete all lines with “Subtotals” and “Total M&R Recommendation” and shift rows up.

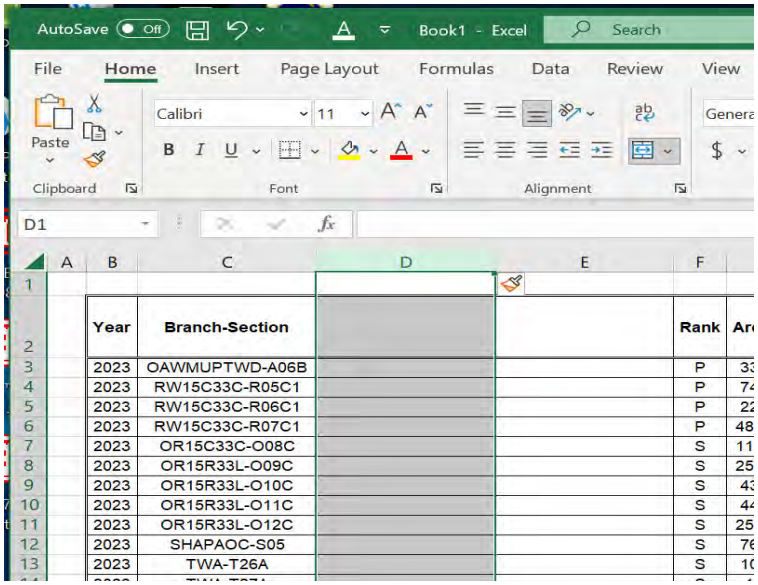


Year	Branch-	Recommended Treatment	PCI Before Treatment	Cost
2024	AP	Selective Slab Replacement	60	$83,189
2024	RW0826	Mill and AC Overlay	69	$79,805
2024	SHAP	Mill and AC Overlay	69	$35,541
2024	SHOR0	Selective Slab Replacement	54	$30,772
2024	SHTW	Mill and AC Overlay	67	$59,685
2024	SHTW	Mill and AC Overlay	60	$107,995
2024	TWD-	Selective Slab Replacement	40	$137,638
		2024 Subtotal		$534,626
2027	RW0826	Mill and AC Overlay	69	$70,254
2027	RW0826	Mill and AC Overlay	69	$70,234
		2027 Subtotal		$140,488
2029	RW0826	Mill and AC Overlay	68	$150,950
2029	RW0826	Mill and AC Overlay	68	$88,838
2029	RW0826	Mill and AC Overlay	68	$88,839
2029	RW0826	Mill and AC Overlay	68	$88,108
		2029 Subtotal		$416,735
2032	RW0826	Mill and AC Overlay	69	$158,612
2032	RW0826	Mill and AC Overlay	69	$77,719
2032	SHAP	Mill and AC Overlay	69	$254,437
2032	SHTW	Mill and AC Overlay	69	$54,033
		2032 Subtotal		$544,801
		Total M&R Recommended		$1,636,650

2.1.5 If the table already has BranchID & SectionID separated skip to step 2.1.6. Otherwise, in the file you created, you must create the columns to standardize the column order.

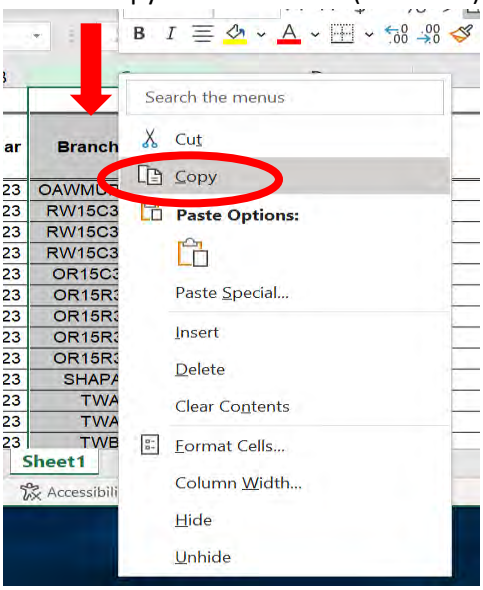
2.1.5.1 Insert 2 columns after "Branch-Section".

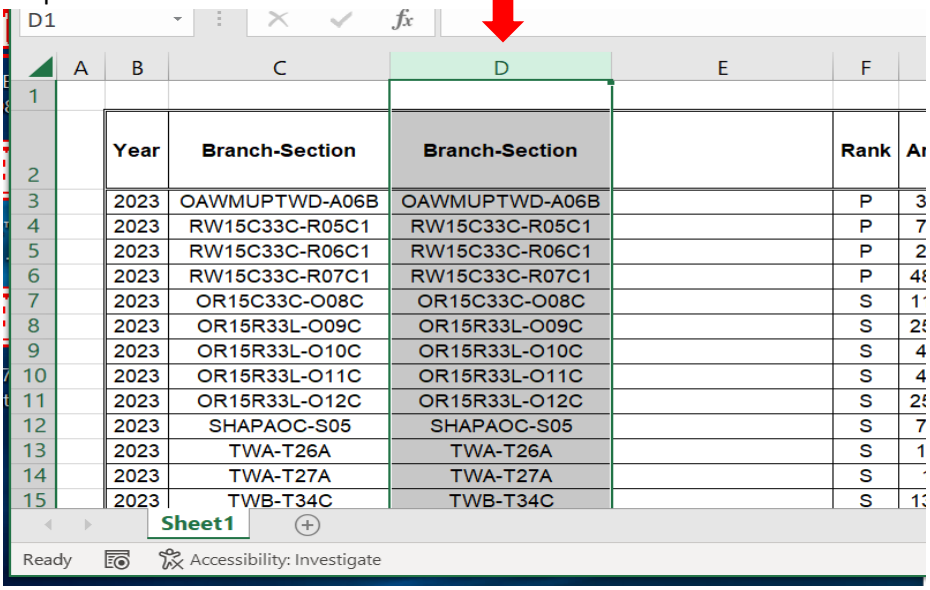




	A	B	C	D	E	F
1						
2		Year	Branch-Section			Rank
3		2023	OAWMUPTWD-A06B			P
4		2023	RW15C33C-R05C1			P
5		2023	RW15C33C-R06C1			P
6		2023	RW15C33C-R07C1			P
7		2023	OR15C33C-O08C			S
8		2023	OR15R33L-O09C			S
9		2023	OR15R33L-O10C			S
10		2023	OR15R33L-O11C			S
11		2023	OR15R33L-O12C			S
12		2023	SHAPAOC-S05			S
13		2023	TWA-T26A			S

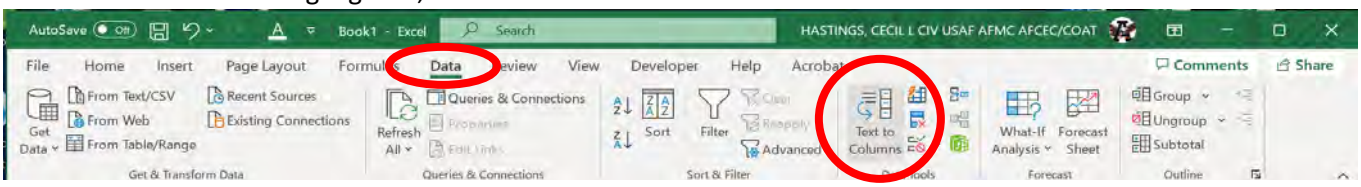
2.1.5.2 Copy Branch-Section (column C) and paste to column D.



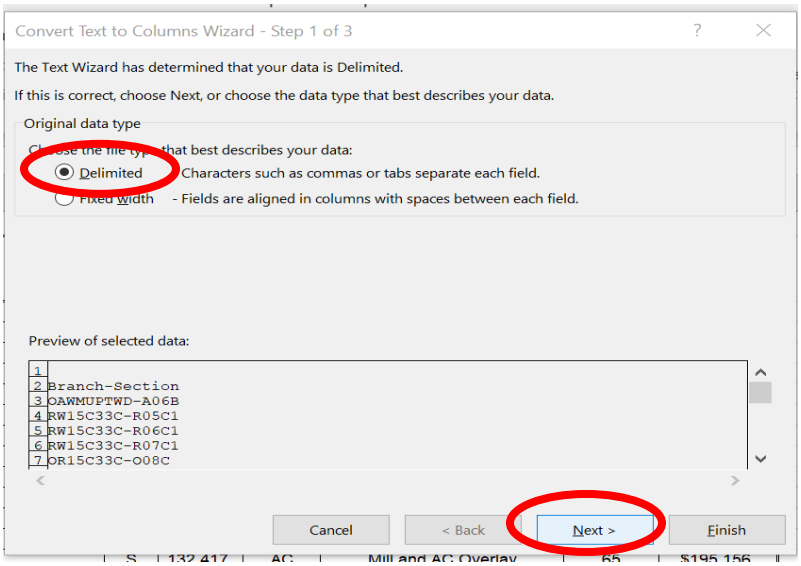


	A	B	C	D	E	F
1						
2		Year	Branch-Section	Branch-Section		Rank
3		2023	OAWMUPTWD-A06B	OAWMUPTWD-A06B		P
4		2023	RW15C33C-R05C1	RW15C33C-R05C1		P
5		2023	RW15C33C-R06C1	RW15C33C-R06C1		P
6		2023	RW15C33C-R07C1	RW15C33C-R07C1		P
7		2023	OR15C33C-O08C	OR15C33C-O08C		S
8		2023	OR15R33L-O09C	OR15R33L-O09C		S
9		2023	OR15R33L-O10C	OR15R33L-O10C		S
10		2023	OR15R33L-O11C	OR15R33L-O11C		S
11		2023	OR15R33L-O12C	OR15R33L-O12C		S
12		2023	SHAPAOC-S05	SHAPAOC-S05		S
13		2023	TWA-T26A	TWA-T26A		S
14		2023	TWA-T27A	TWA-T27A		S
15		2023	TWB-T34C	TWB-T34C		S

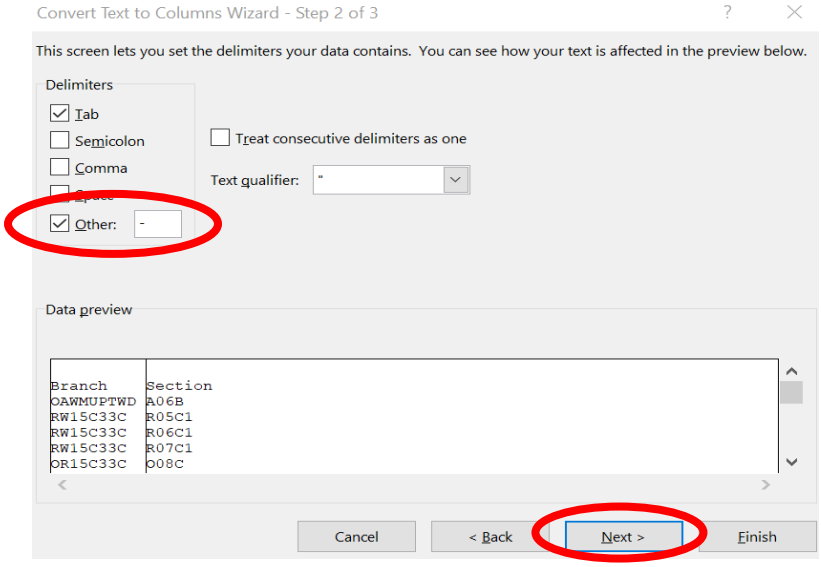
2.1.5.3 With column D highlighted, select the Data Tab. Then select "Text to Columns".



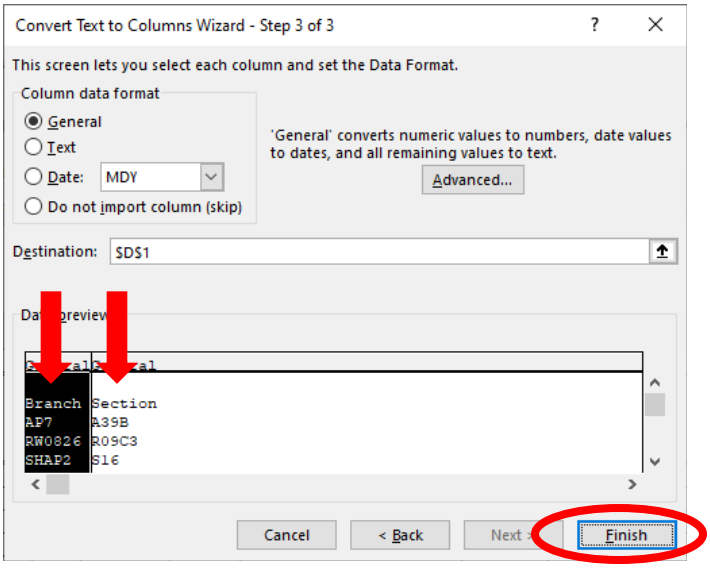
2.1.5.4 You will see this screen. With “Delimited” selected, click “Next”.

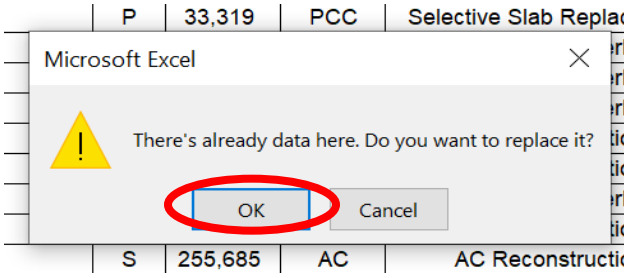


2.1.5.5 Select “Other” box and enter a dash (minus sign) in the adjacent box and then click next.

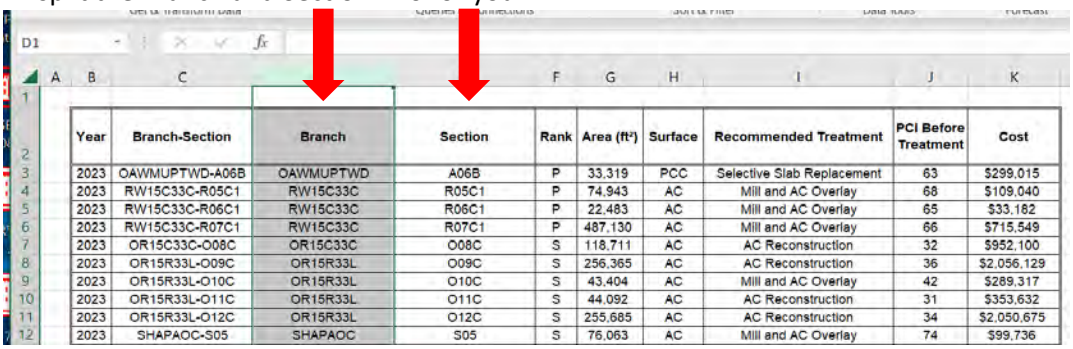


2.1.5.6 All the selections should be correct, if so click “Finish” then “OK”.



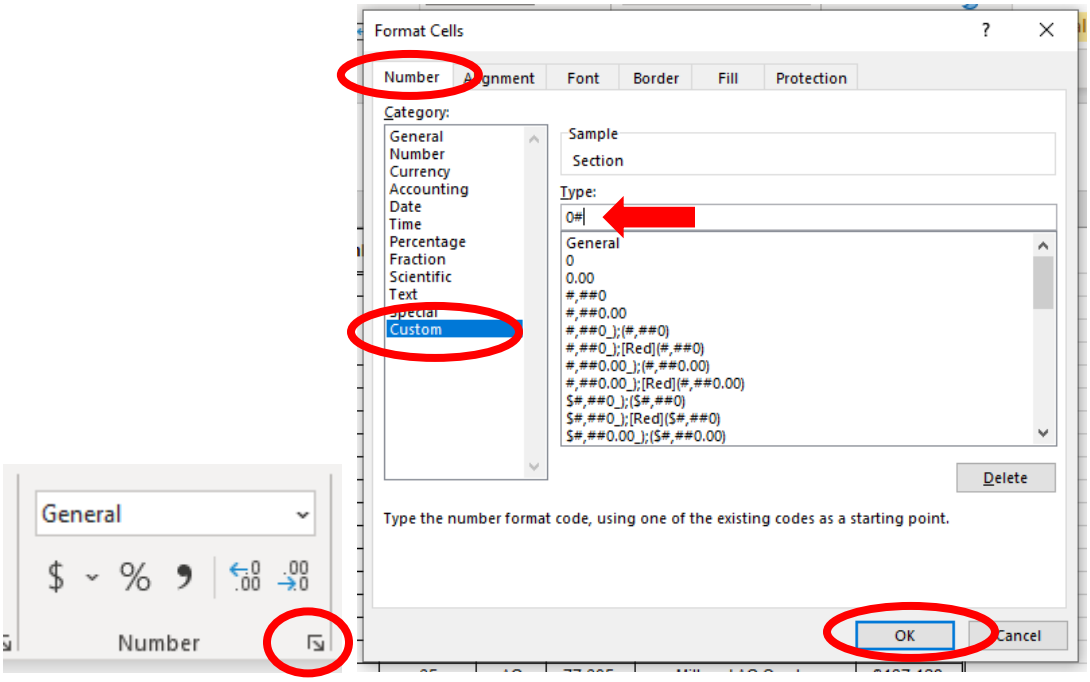


2.1.5.7 Excel will split the Branch and Section info for you.



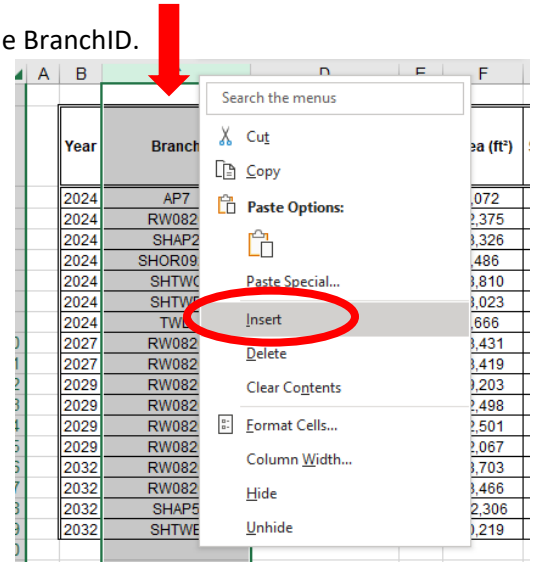
Year	Branch-Section	Branch	Section	Rank	Area (ft²)	Surface	Recommended Treatment	PCI Before Treatment	Cost
2023	OAWMUPTWD-A06B	OAWMUPTWD	A06B	P	33,319	PCC	Selective Slab Replacement	63	$299,015
2023	RW15C33C-R05C1	RW15C33C	R05C1	P	74,943	AC	Mill and AC Overlay	68	$109,040
2023	RW15C33C-R06C1	RW15C33C	R06C1	P	22,483	AC	Mill and AC Overlay	65	$33,182
2023	RW15C33C-R07C1	RW15C33C	R07C1	P	487,130	AC	Mill and AC Overlay	66	$715,549
2023	OR15C33C-O08C	OR15C33C	O08C	S	118,711	AC	AC Reconstruction	32	$952,100
2023	OR15R33L-O09C	OR15R33L	O09C	S	256,365	AC	AC Reconstruction	36	$2,056,129
2023	OR15R33L-O10C	OR15R33L	O10C	S	43,404	AC	Mill and AC Overlay	42	$289,317
2023	OR15R33L-O11C	OR15R33L	O11C	S	44,092	AC	AC Reconstruction	31	$353,632
2023	OR15R33L-O12C	OR15R33L	O12C	S	255,685	AC	AC Reconstruction	34	$2,050,675
2023	SHAPAOC-S05	SHAPAOC	S05	S	76,063	AC	Mill and AC Overlay	74	$99,736

2.1.5.8 For Roads & Parking, to return the front zero in the Section Column. Highlight the Section column and format the column to Custom – "0#" to get the zero placed back.

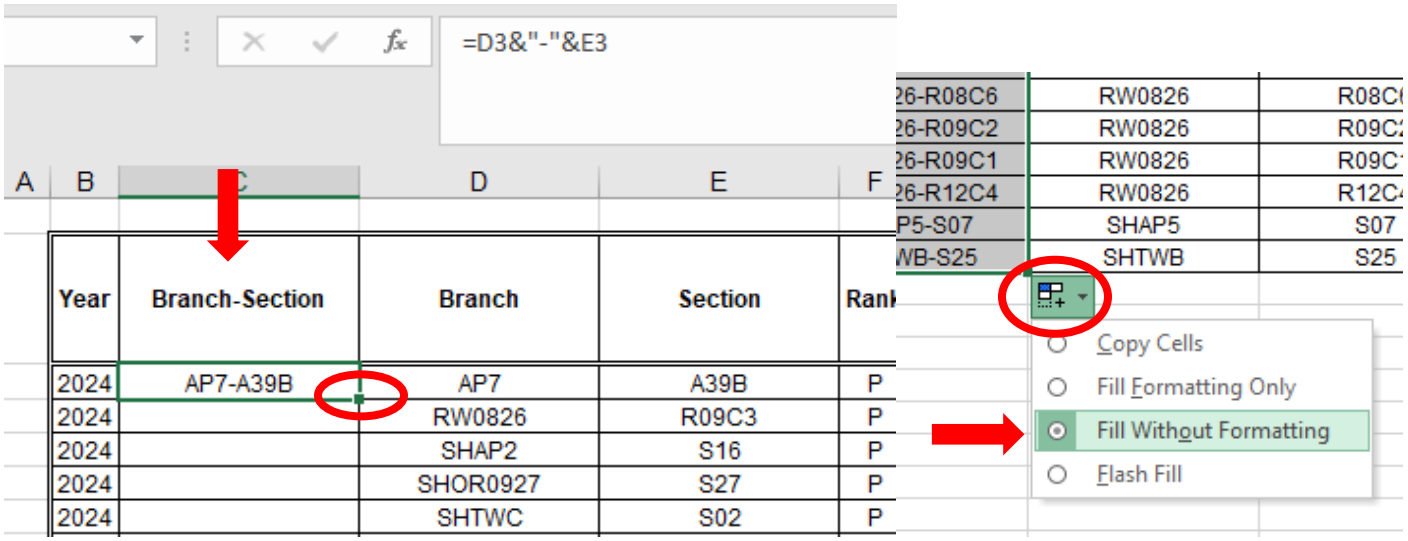


2.1.6 If you just completed step 2.1.5, skip to step2.1.7. Otherwise, for tables that have BranchID & SectionID already separated, follow the steps below to create a combined Branch-Section column.

2.1.6.1 Insert a column in front of the BranchID.

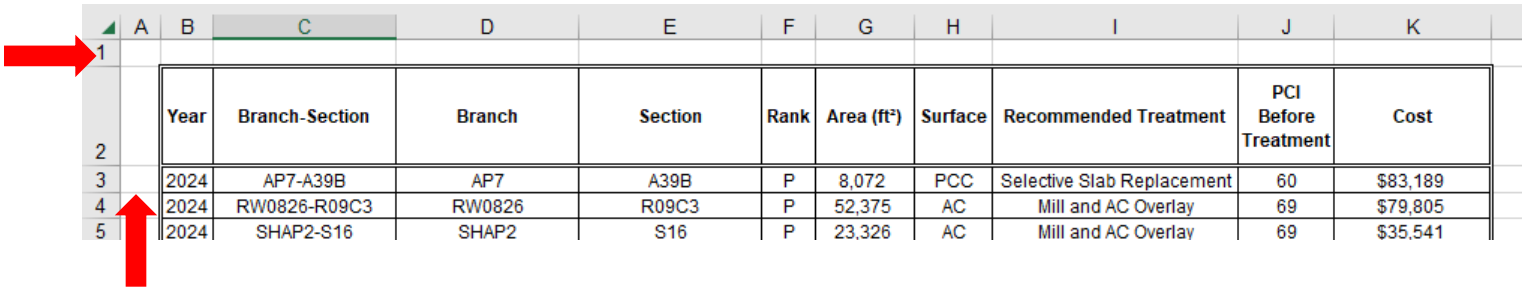


2.1.6.2 Label the column “Branch-Section” and in cell C3, copy =D3&"-"&E3 and paste it directly in the cell. With cell C3 highlighted double click on the small box in the bottom right corner to auto fill the formula down to the last entry. Or drag it down to the last entry to do the same. Formatting does not matter but you can “Fill Without Formatting”.

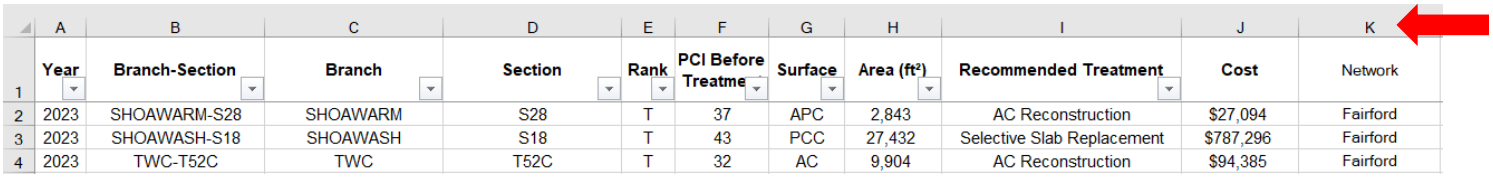


2.1.7 Now, delete the first row (1) and column (A) then simply cut and paste the columns into the prescribed order. Then add the Network name in the open column to the right (K).

Year–Branch-Section–Branch–Section–Rank–PCI Before Treatment–Surface–Area–Recommended Treatment–Cost–Network

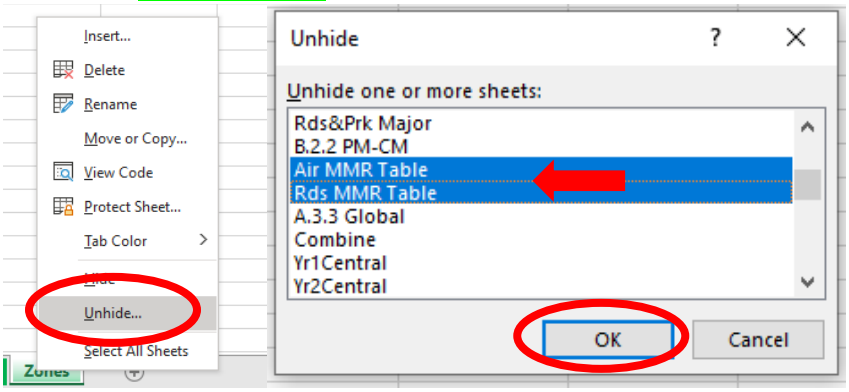


Year	Branch-Section	Branch	Section	Rank	Area (ft²)	Surface	Recommended Treatment	PCI Before Treatment	Cost
2024	AP7-A39B	AP7	A39B	P	8,072	PCC	Selective Slab Replacement	60	$83,189
2024	RW0826-R09C3	RW0826	R09C3	P	52,375	AC	Mill and AC Overlay	69	$79,805
2024	SHAP2-S16	SHAP2	S16	P	23,326	AC	Mill and AC Overlay	69	$35,541



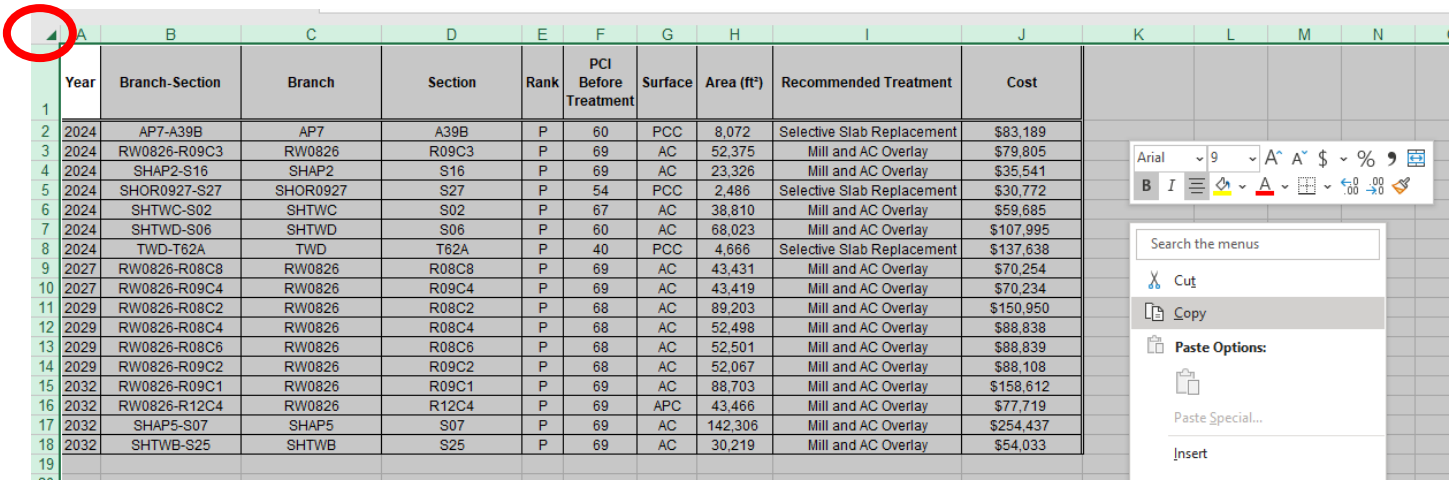
Year	Branch-Section	Branch	Section	Rank	PCI Before Treatme	Surface	Area (ft²)	Recommended Treatment	Cost	Network
2023	SHOAWARM-S28	SHOAWARM	S28	T	37	APC	2,843	AC Reconstruction	$27,094	Fairford
2023	SHOAWASH-S18	SHOAWASH	S18	T	43	PCC	27,432	Selective Slab Replacement	$787,296	Fairford
2023	TWC-T52C	TWC	T52C	T	32	AC	9,904	AC Reconstruction	$94,385	Fairford

2.1.8 Open the PMP Appendices Workbook and go to either the "Air MMR Table" or the "Rds MMR Table" tabs. If they aren't shown then go to the bottom of the table, right-click on any of the page tabs and select "Unhide", then select "Air MMR Table" and/or the "Rds MMR Table", then click OK.



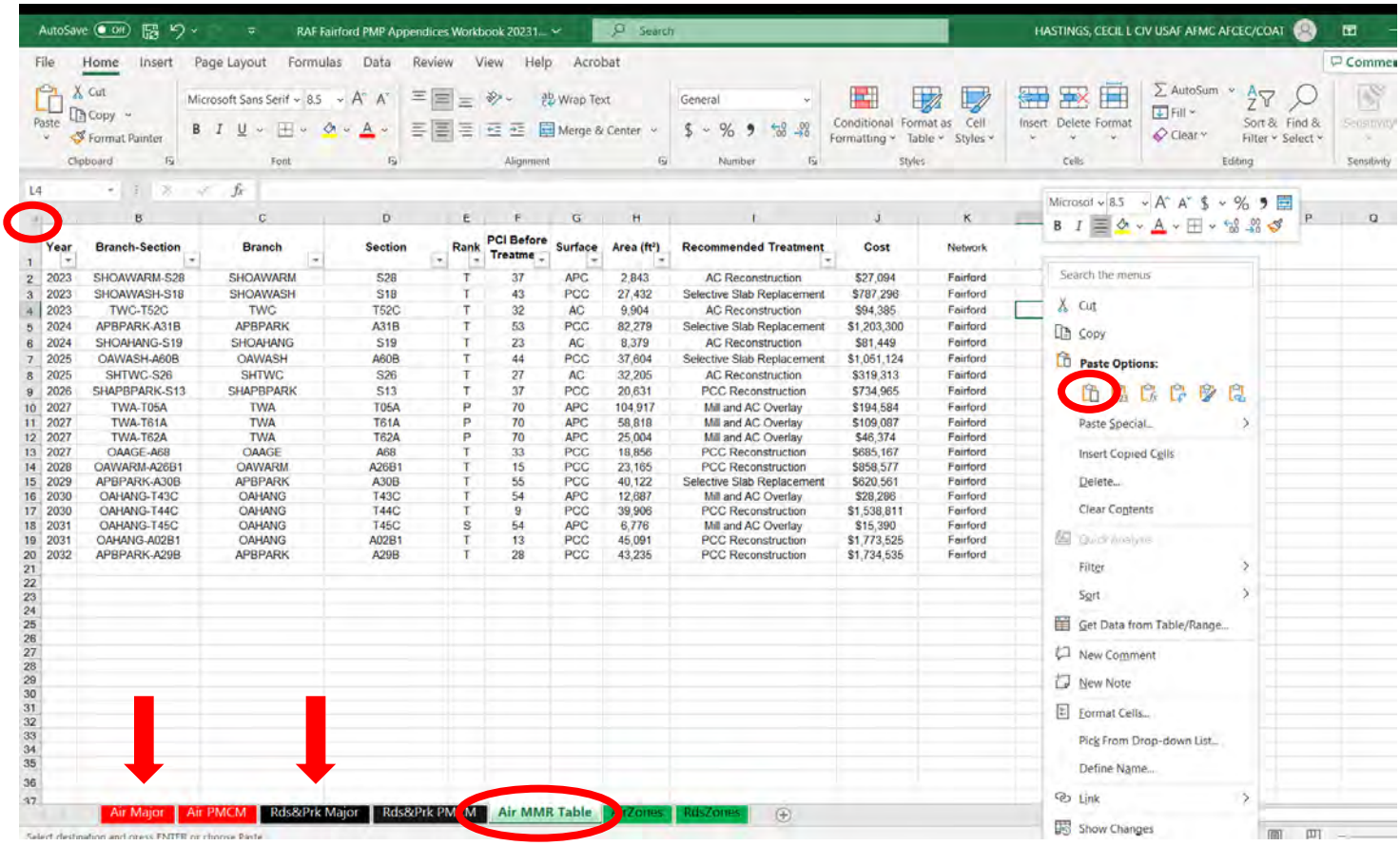
2.1.9 On the newly created table from the PCI report, select the entire page using the button and copy the entire page.

NOTE: The data should begin in cell A1 – no blank line at the top and no blank column at the left.



Year	Branch-Section	Branch	Section	Rank	PCI Before Treatment	Surface	Area (ft²)	Recommended Treatment	Cost
2024	AP7-A39B	AP7	A39B	P	60	PCC	8,072	Selective Slab Replacement	$83,189
2024	RW0826-R09C3	RW0826	R09C3	P	69	AC	52,375	Mill and AC Overlay	$79,805
2024	SHAP2-S16	SHAP2	S16	P	69	AC	23,326	Mill and AC Overlay	$35,541
2024	SHOR0927-S27	SHOR0927	S27	P	54	PCC	2,486	Selective Slab Replacement	$30,772
2024	SHTWC-S02	SHTWC	S02	P	67	AC	38,810	Mill and AC Overlay	$59,685
2024	SHTWD-S06	SHTWD	S06	P	60	AC	68,023	Mill and AC Overlay	$107,995
2024	TWD-T62A	TWD	T62A	P	40	PCC	4,666	Selective Slab Replacement	$137,638
2027	RW0826-R08C8	RW0826	R08C8	P	69	AC	43,431	Mill and AC Overlay	$70,254
2027	RW0826-R09C4	RW0826	R09C4	P	69	AC	43,419	Mill and AC Overlay	$70,234
2029	RW0826-R08C2	RW0826	R08C2	P	68	AC	89,203	Mill and AC Overlay	$150,950
2029	RW0826-R08C4	RW0826	R08C4	P	68	AC	52,498	Mill and AC Overlay	$88,838
2029	RW0826-R08C6	RW0826	R08C6	P	68	AC	52,501	Mill and AC Overlay	$88,839
2029	RW0826-R09C2	RW0826	R09C2	P	68	AC	52,067	Mill and AC Overlay	$88,108
2032	RW0826-R09C1	RW0826	R09C1	P	69	AC	88,703	Mill and AC Overlay	$158,612
2032	RW0826-R12C4	RW0826	R12C4	P	69	APC	43,466	Mill and AC Overlay	$77,719
2032	SHAP5-S07	SHAP5	S07	P	69	AC	142,306	Mill and AC Overlay	$254,437
2032	SHTWB-S25	SHTWB	S25	P	69	AC	30,219	Mill and AC Overlay	$54,033

2.1.10 In the PMP Appendices Workbook select the "Air MMR Table" or "Rds MMR Table" tab. Select the entire page using the button, right click and paste the data from the table you just completed. With the data in the proper format, the data should automatically populate the "Air Major" or "Rds&Prk Major" tab. These tabs will also pull data from the User Defined (UseDef) tables, once they have been completed, so "NA" will appear until all green tabs have been accomplished.

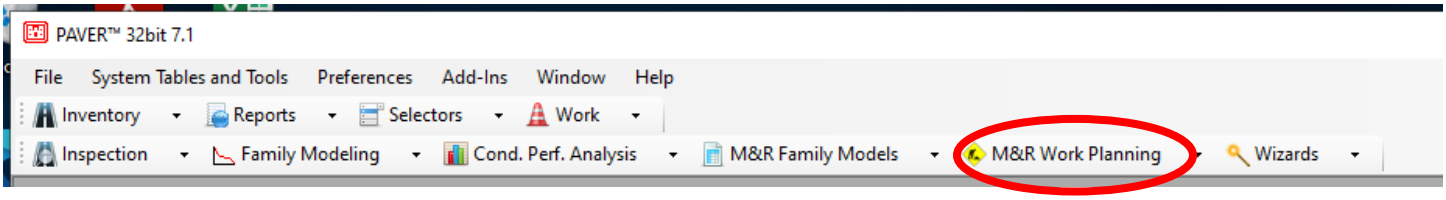


2.1.11 Repeat these steps for the remaining pavement network (Airfield or Roads & Parking).

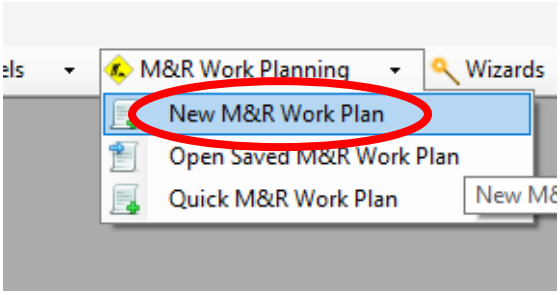
SAVE YOUR WORK!!

2.2 PMP Consequence Table Instructions

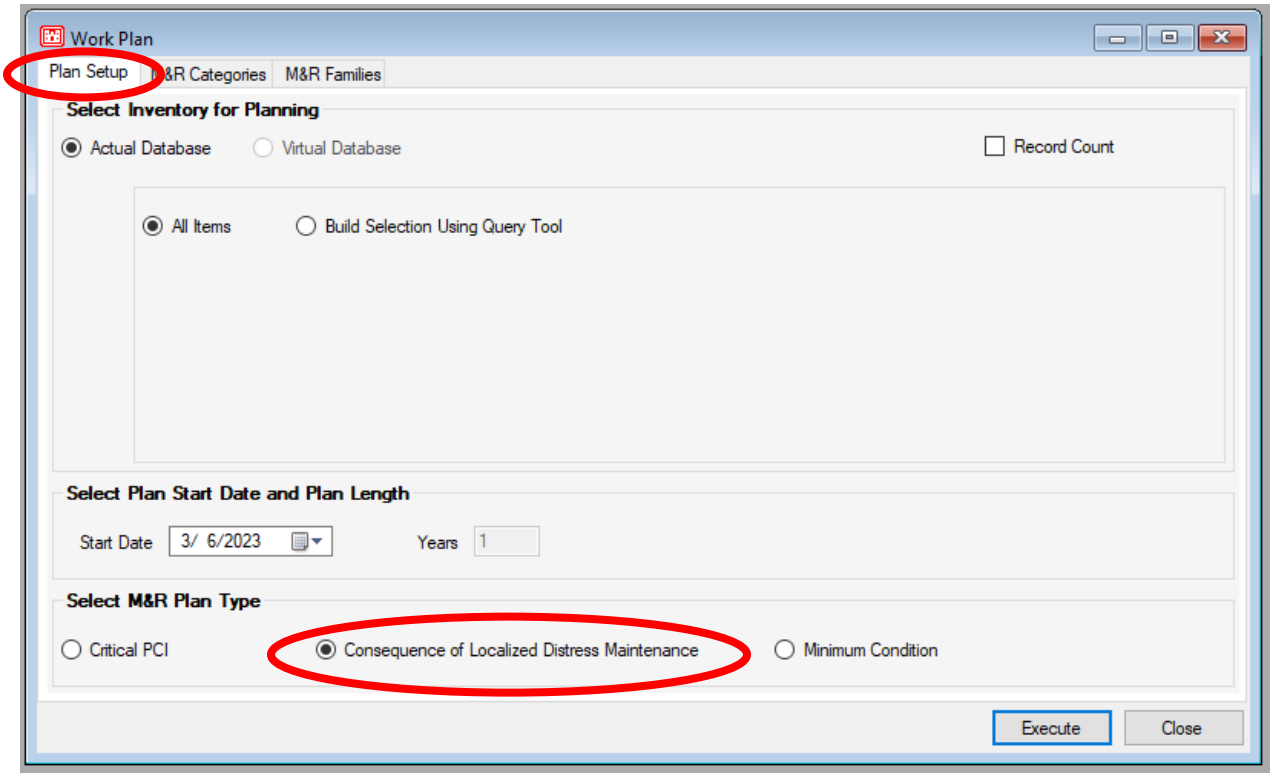
2.2.1 Open the pavement system's (AIR or RDS & PRK) .E70 database into PAVER and select "M&R Work Planning" from the main menu. The .E70 database should have already been imported and PMP zones assigned per guidance in section 1.1 PMP Zone Definition. If not, Import and open database.



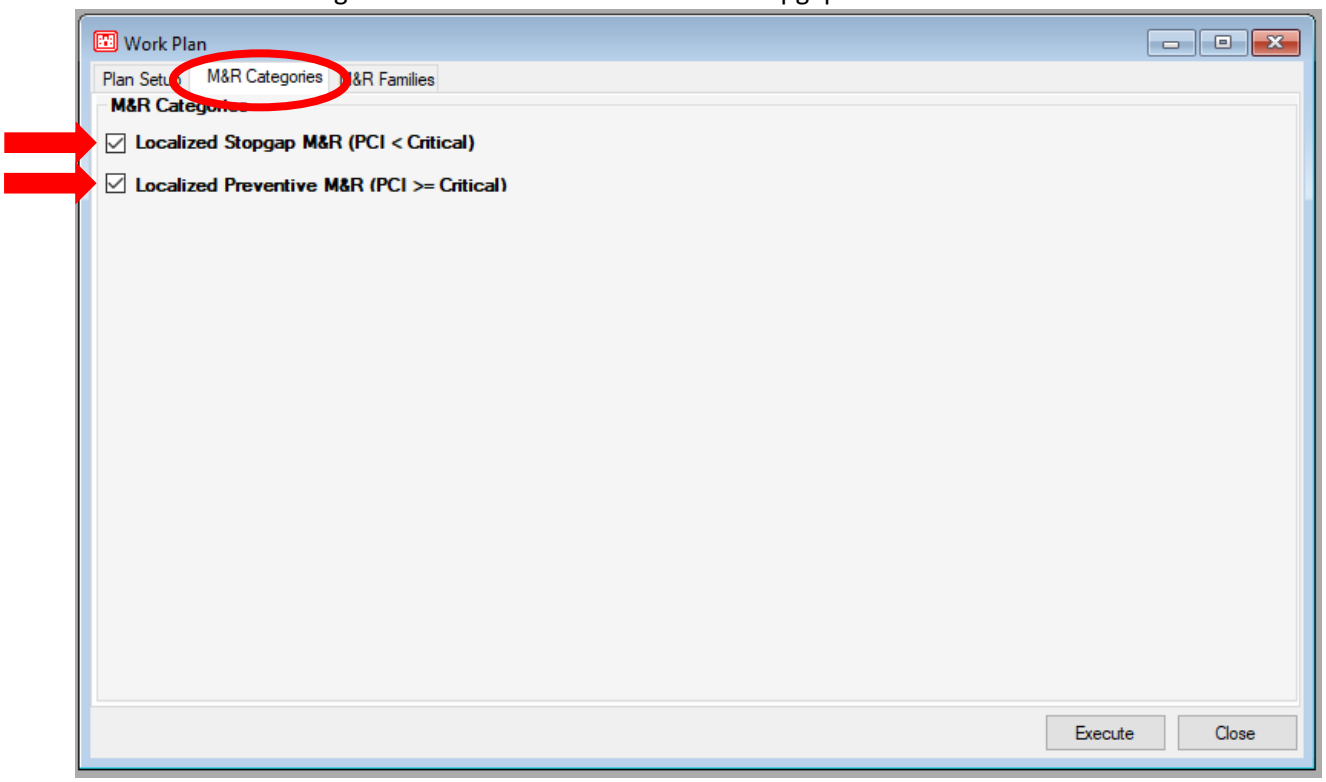
2.2.2 Then select New M&R Work Plan from the dropdown.



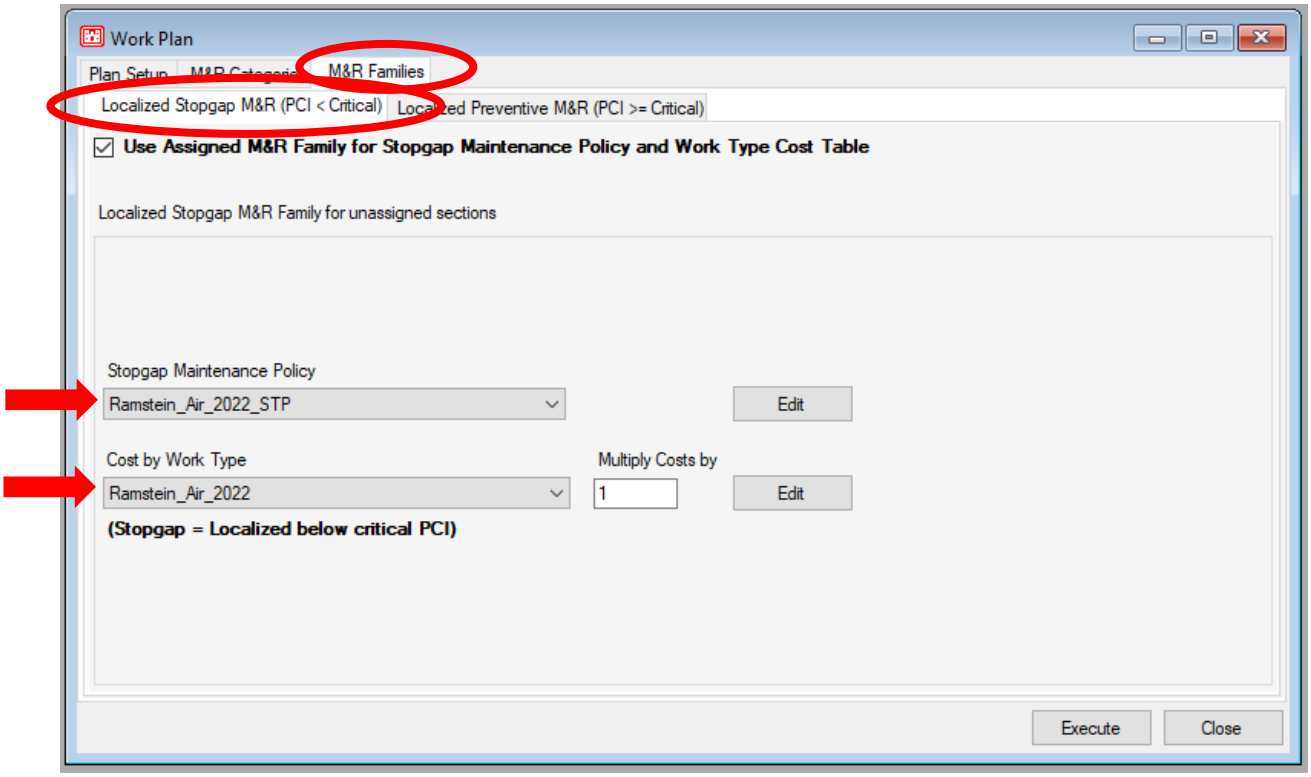
2.2.3 In the Work Plan window, Plan Setup tab, ensure that "Consequence of Localized Distress Maintenance" is selected.



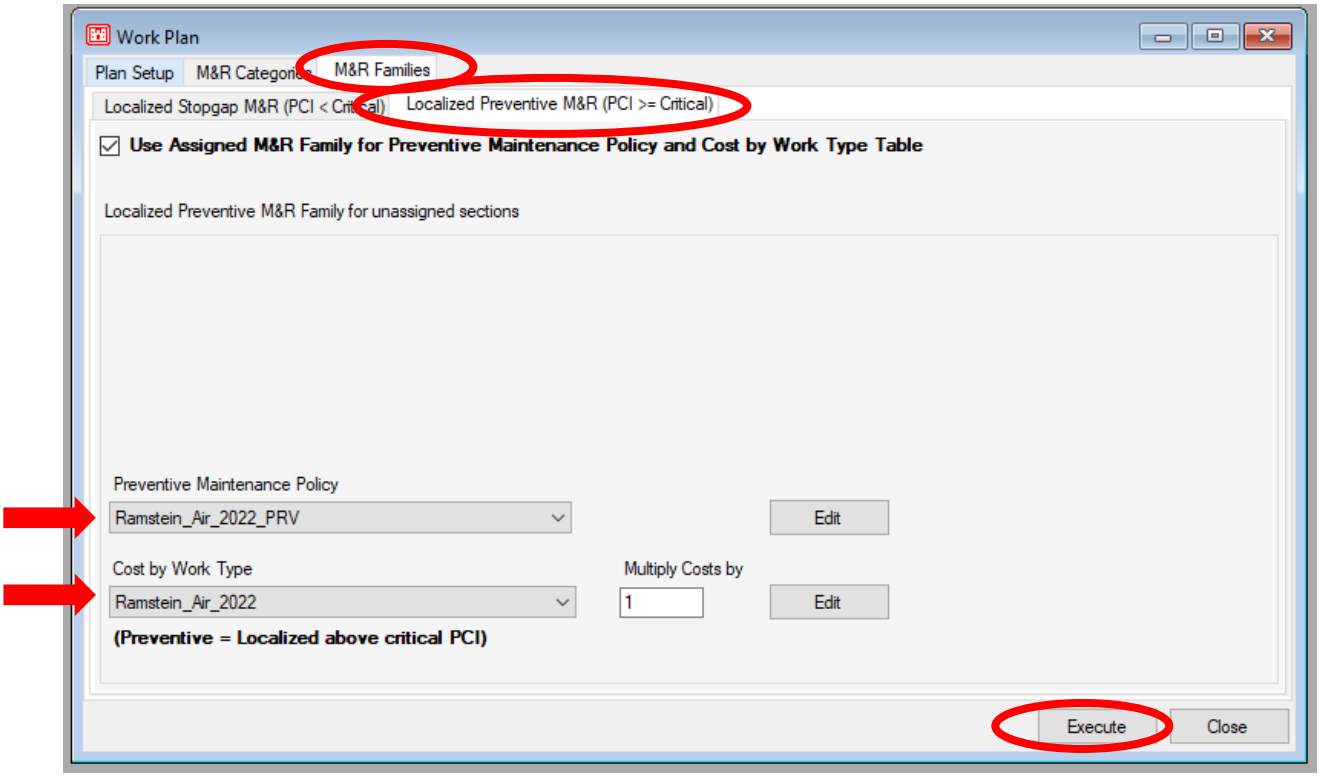
2.2.4 Select the “M&R Categories” tab and ensure that both “Stopgap” and “Preventive” are selected.



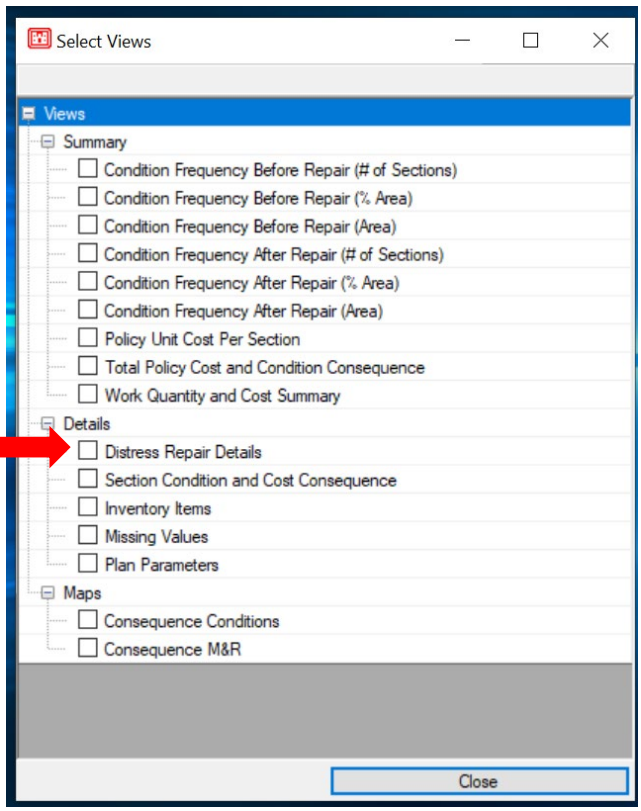
2.2.5 Select “M&R Families” tab and “Localized Stopgap M&R” tab just below. Ensure that “Use Assigned M&R Family for Stopgap…” is checked. Next section down, ensure that the network’s Stopgap Maintenance Policy “Installation Name_Pavement System_YYYY_STP” and Cost by Work Type “Installation Name_Air_YYYY”, or “Installation NameAF Local” if Roads and Parking, is selected.

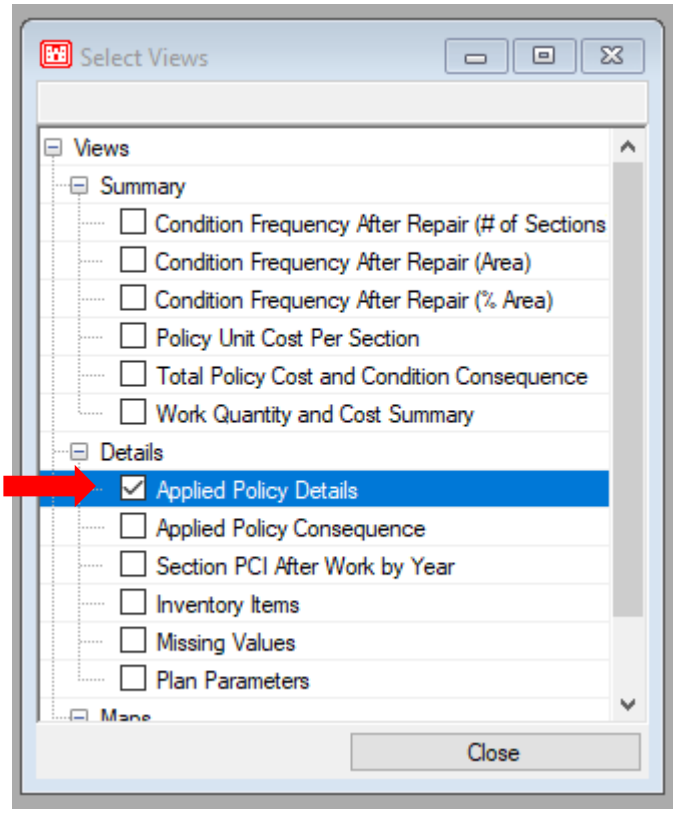


2.2.6 Select “M&R Families” tab and “Localized Preventative M&R” tab just below. Ensure that “Use Assigned M&R Family for Preventive Maintenance…” is checked. Next section down, ensure that the network’s Preventative Maintenance Policy “Installation Name_Pavement System_YYYY_PRV” and Cost by Work Type “Installation Name_Air_YYYY” ”, or “Installation NameAF Local” if Roads and Parking, is selected, then select “Execute” at the bottom.

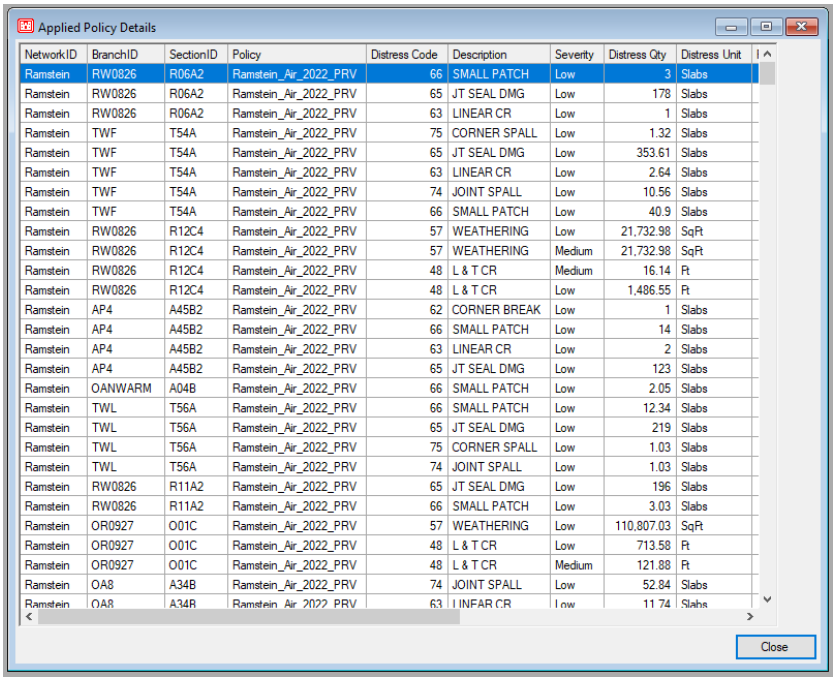


2.2.7 In the “Select Views” window, select “Distress Repair Details” in the “Details” section, or “Applied Policy Details” if using an older version of PAVER.



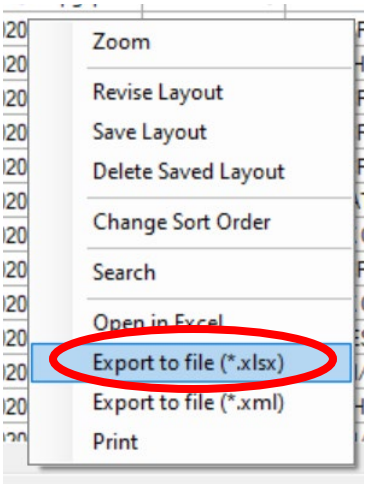


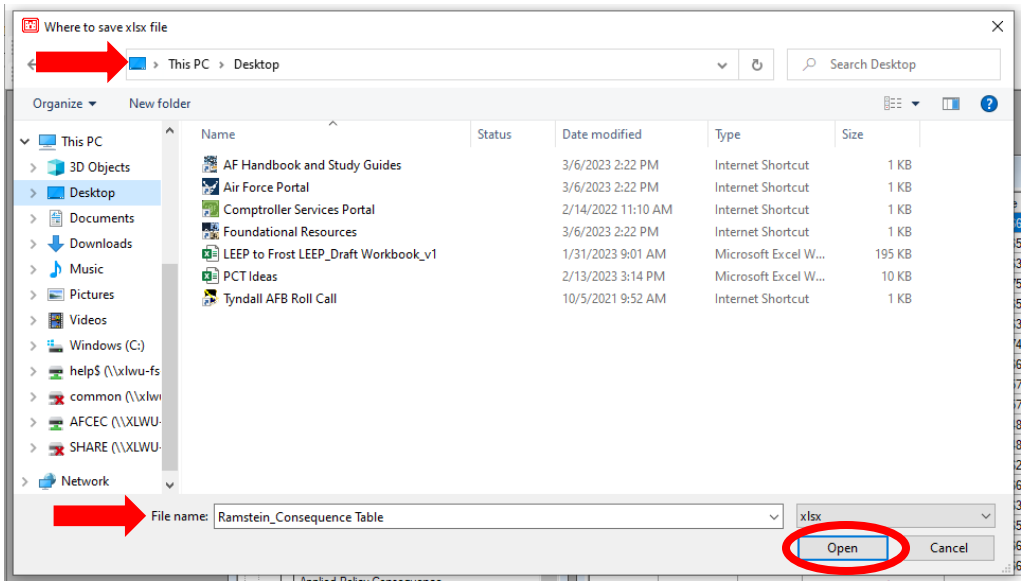
2.2.8 The “Distress Repair Details” window with table will automatically open.



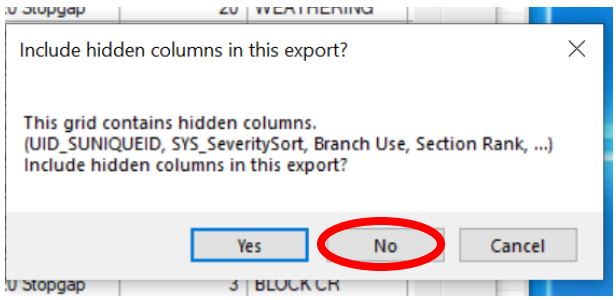
NetworkID	BranchID	SectionID	Policy	Distress Code	Description	Severity	Distress Qty	Distress Unit
Ramstein	RW0826	R06A2	Ramstein_Air_2022_PRV	66	SMALL PATCH	Low	3	Slabs
Ramstein	RW0826	R06A2	Ramstein_Air_2022_PRV	65	JT SEAL DMG	Low	178	Slabs
Ramstein	RW0826	R06A2	Ramstein_Air_2022_PRV	63	LINEAR CR	Low	1	Slabs
Ramstein	TWF	T54A	Ramstein_Air_2022_PRV	75	CORNER SPALL	Low	1.32	Slabs
Ramstein	TWF	T54A	Ramstein_Air_2022_PRV	65	JT SEAL DMG	Low	353.61	Slabs
Ramstein	TWF	T54A	Ramstein_Air_2022_PRV	63	LINEAR CR	Low	2.64	Slabs
Ramstein	TWF	T54A	Ramstein_Air_2022_PRV	74	JOINT SPALL	Low	10.56	Slabs
Ramstein	TWF	T54A	Ramstein_Air_2022_PRV	66	SMALL PATCH	Low	40.9	Slabs
Ramstein	RW0826	R12C4	Ramstein_Air_2022_PRV	57	WEATHERING	Low	21,732.98	SqFt
Ramstein	RW0826	R12C4	Ramstein_Air_2022_PRV	57	WEATHERING	Medium	21,732.98	SqFt
Ramstein	RW0826	R12C4	Ramstein_Air_2022_PRV	48	L & T CR	Medium	16.14	Ft
Ramstein	RW0826	R12C4	Ramstein_Air_2022_PRV	48	L & T CR	Low	1,486.55	Ft
Ramstein	AP4	A45B2	Ramstein_Air_2022_PRV	62	CORNER BREAK	Low	1	Slabs
Ramstein	AP4	A45B2	Ramstein_Air_2022_PRV	66	SMALL PATCH	Low	14	Slabs
Ramstein	AP4	A45B2	Ramstein_Air_2022_PRV	63	LINEAR CR	Low	2	Slabs
Ramstein	AP4	A45B2	Ramstein_Air_2022_PRV	65	JT SEAL DMG	Low	123	Slabs
Ramstein	OANWARM	A04B	Ramstein_Air_2022_PRV	66	SMALL PATCH	Low	2.05	Slabs
Ramstein	TWL	T56A	Ramstein_Air_2022_PRV	66	SMALL PATCH	Low	12.34	Slabs
Ramstein	TWL	T56A	Ramstein_Air_2022_PRV	65	JT SEAL DMG	Low	219	Slabs
Ramstein	TWL	T56A	Ramstein_Air_2022_PRV	75	CORNER SPALL	Low	1.03	Slabs
Ramstein	TWL	T56A	Ramstein_Air_2022_PRV	74	JOINT SPALL	Low	1.03	Slabs
Ramstein	RW0826	R11A2	Ramstein_Air_2022_PRV	65	JT SEAL DMG	Low	196	Slabs
Ramstein	RW0826	R11A2	Ramstein_Air_2022_PRV	66	SMALL PATCH	Low	3.03	Slabs
Ramstein	OR0927	O01C	Ramstein_Air_2022_PRV	57	WEATHERING	Low	110,807.03	SqFt
Ramstein	OR0927	O01C	Ramstein_Air_2022_PRV	48	L & T CR	Low	713.58	Ft
Ramstein	OR0927	O01C	Ramstein_Air_2022_PRV	48	L & T CR	Medium	121.88	Ft
Ramstein	OA8	A34B	Ramstein_Air_2022_PRV	74	JOINT SPALL	Low	52.84	Slabs
Ramstein	OA8	A34B	Ramstein_Air_2022_PRV	63	LINEAR CR	Low	11.74	Slabs

2.2.9 Right-click in the box and select “Export to file (*xlsx)”. Define location and file name, to save file if requested. Select “Open”.

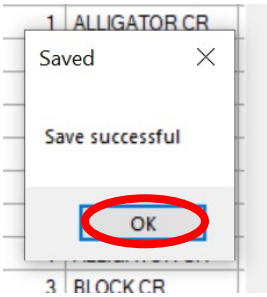




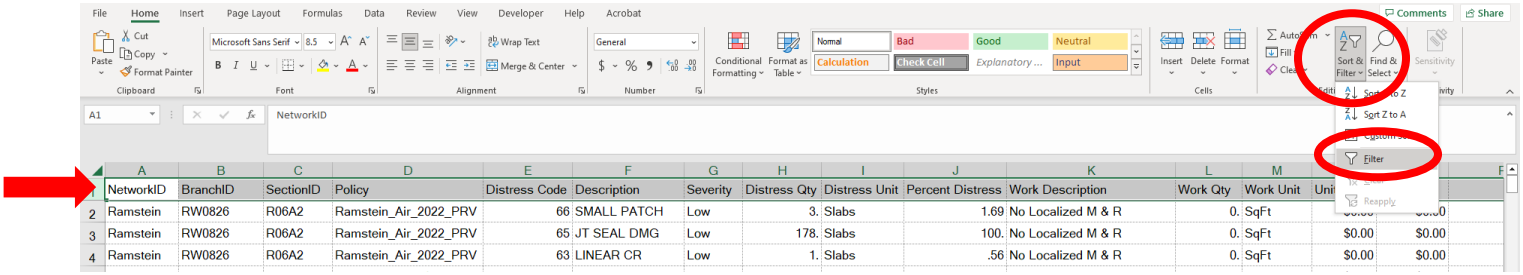
2.2.10 In the pop-up window “Include hidden…”, select no.

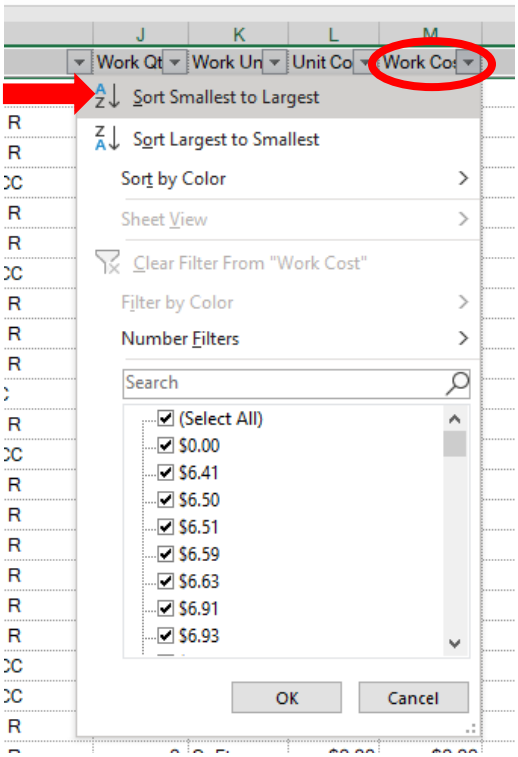


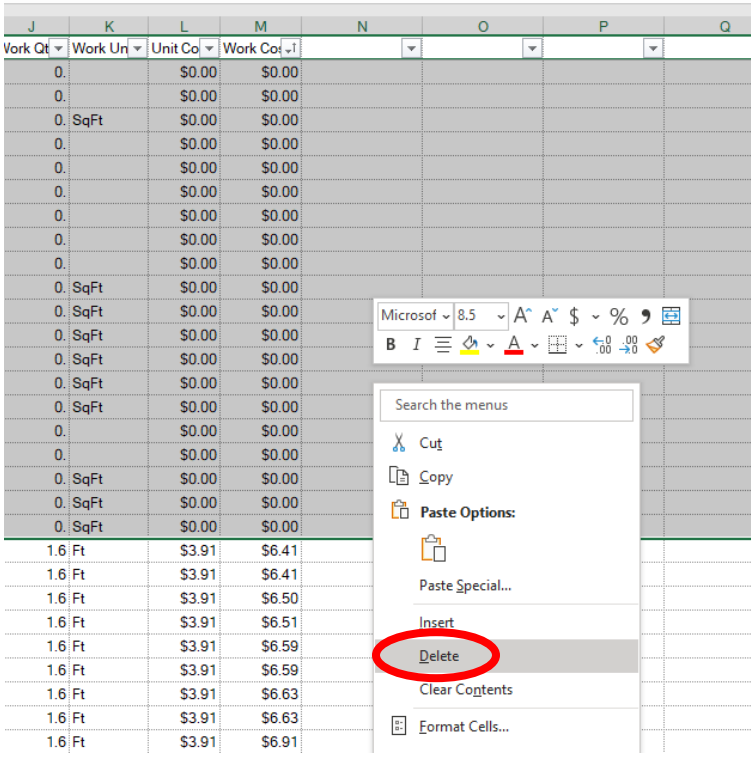
2.2.11 The window with “Save successful” will display when complete. Click OK and close all windows inside PAVER. **Note: If using an older version of PAVER this window will not appear.**



2.2.12 Open the newly saved Excel file; it will look like this. Highlight the first row, select “Sort & Filter” then “Filter". Sort the entire file by “Work Cost” (Smallest to Largest) and select and delete all rows with a $0 work cost.





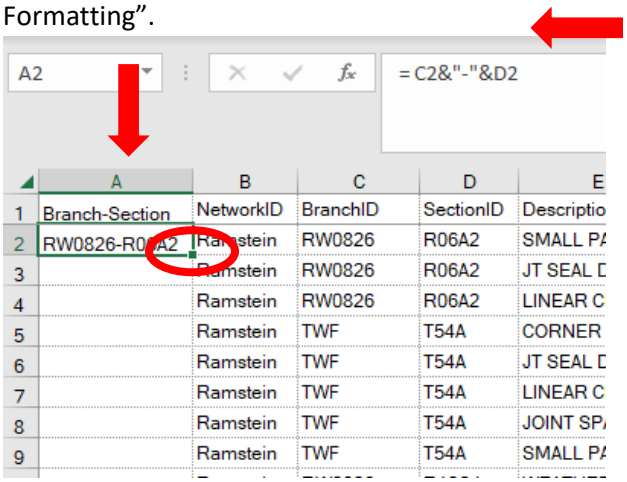


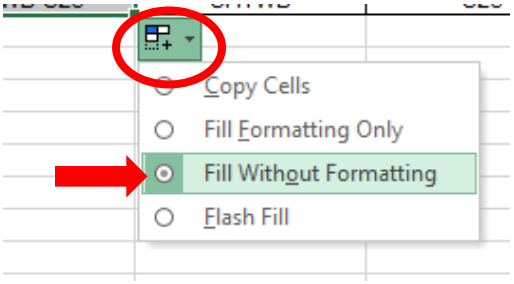
2.2.13 Keep only the columns shown below and insert in a new Column A and ensure that the columns are in the order as shown.

"Blank"–NetworkID–BranchID–SectionID–Description–Severity–Work Description–Work Qty–Work Unit–Work Cost

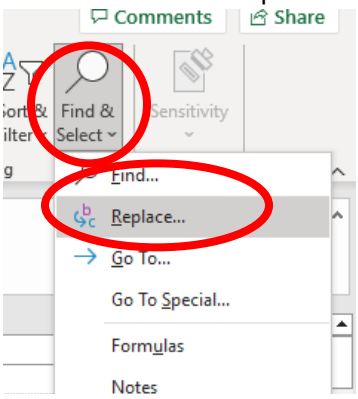
	A	B	C	D	E	F	G	H	I	J
1		Network	BranchID	Section	Description	Sever	Work Description	Work Q	Work U	Work Co
2		Sheppard	AP1360	A47B	BLOCK CR	M	Crack Sealing - AC	2.6	Ft	$2.62
3		Sheppard	OR15C33C	O07C	ALLIGATOR CR	L	Crack Sealing - AC	4.3	Ft	$4.47
4		Sheppard	RW15L33R	R01A2	JOINT SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
5		Sheppard	OAWASH	A26B	JOINT SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
6		Sheppard	APMAINT	A14B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
7		Sheppard	OAWASHE	A11B	JOINT SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
8		Sheppard	APMAINT	A13B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
9		Sheppard	APMAINT	A16B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
10		Sheppard	TWGCENTER	T05A	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
11		Sheppard	OAWASHE	A12B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
12		Sheppard	OAT6RUNUP	A39B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.36
13		Sheppard	RW15R33L	R09A1	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.45
14		Sheppard	RW15L33R	R03A1	JOINT SPALL	L	Crack Sealing - PCC	2.	Ft	$6.87
15		Sheppard	RW15R33L	R13A2	CORNER SPALL	L	Crack Sealing - PCC	2.	Ft	$6.89
16		Sheppard	APMUNICIP	A43B	CORNER SPALL	L	Crack Sealing - PCC	2.	Ft	$6.90
17		Sheppard	RW15R33L	R10A2	CORNER SPALL	L	Crack Sealing - PCC	2.	Ft	$7.07

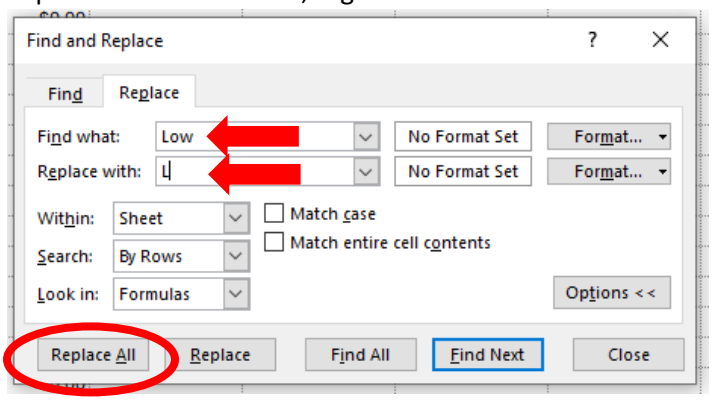
2.2.14 Label the inserted column "Branch-Section" and in cell A2, copy =C2&"-"&D2 and paste it directly in the cell. With cell A2 highlighted double click on the small box in the bottom right corner to auto fill the formula down to the last entry. Or drag it down to the last entry to do the same. Formatting does not matter but you can "Fill Without Formatting".





2.2.15 Select the "Severity" column, then select "Find & Select" and use the "Replace" function to "Find what:" Low and "Replace with:" L and select "Replace All". Repeat for Medium to M, High to H.

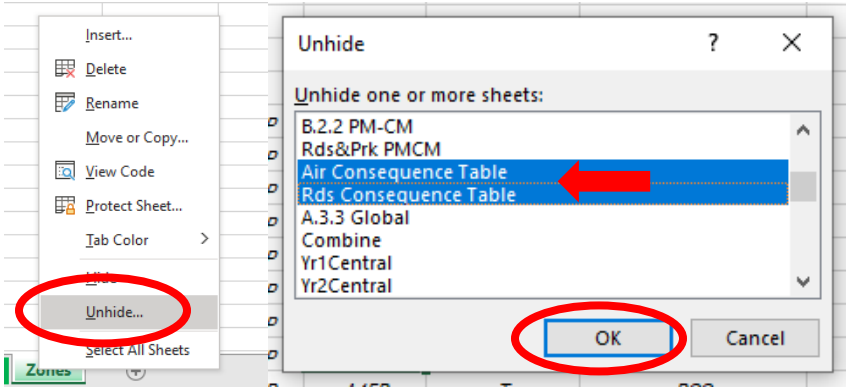




2.2.16 The final Consequence Table should look like the below.

	A	B	C	D	E	F	G	H	I	J
1	Branch-Section	NetworkII	BranchID	SectionII	Description	Severit	Work Description	Work Qt	Work Un	Work Cos
2	APWASH-A15C	Keesler	APWASH	A15C	CORNER SPALL	High	Patching - PCC Partial Depth	2.2	SqFt	$31.81
3	PAOVERFLOW-T11C	Keesler	PAOVERFLOW	T11C	CORNER SPALL	Medium	Patching - PCC Partial Depth	2.2	SqFt	$32.38
4	RW0321-R12A2	Keesler	RW0321	R12A2	SMALL PATCH	Medium	Patching - PCC Partial Depth	2.2	SqFt	$33.29
5	RW0321-R10A2	Keesler	RW0321	R10A2	CORNER SPALL	Medium	Patching - PCC Partial Depth	3.2	SqFt	$36.59
6	PAOVERFLOW-A33C	Keesler	PAOVERFLOW	A33C	CORNER BREAK	Low	Crack Sealing - PCC	8.2	Ft	$38.30
7	PA2-A10B2	Keesler	PA2	A10B2	SMALL PATCH	High	Patching - PCC Partial Depth	3.2	SqFt	$39.21
8	PA2-A07A	Keesler	PA2	A07A	SMALL PATCH	High	Patching - PCC Partial Depth	3.2	SqFt	$39.63
9	TWC-T02C	Keesler	TWC	T02C	SMALL PATCH	Medium	Patching - PCC Partial Depth	3.2	SqFt	$40.04
10	TWC-T02C	Keesler	TWC	T02C	CORNER SPALL	Medium	Patching - PCC Partial Depth	3.2	SqFt	$40.04

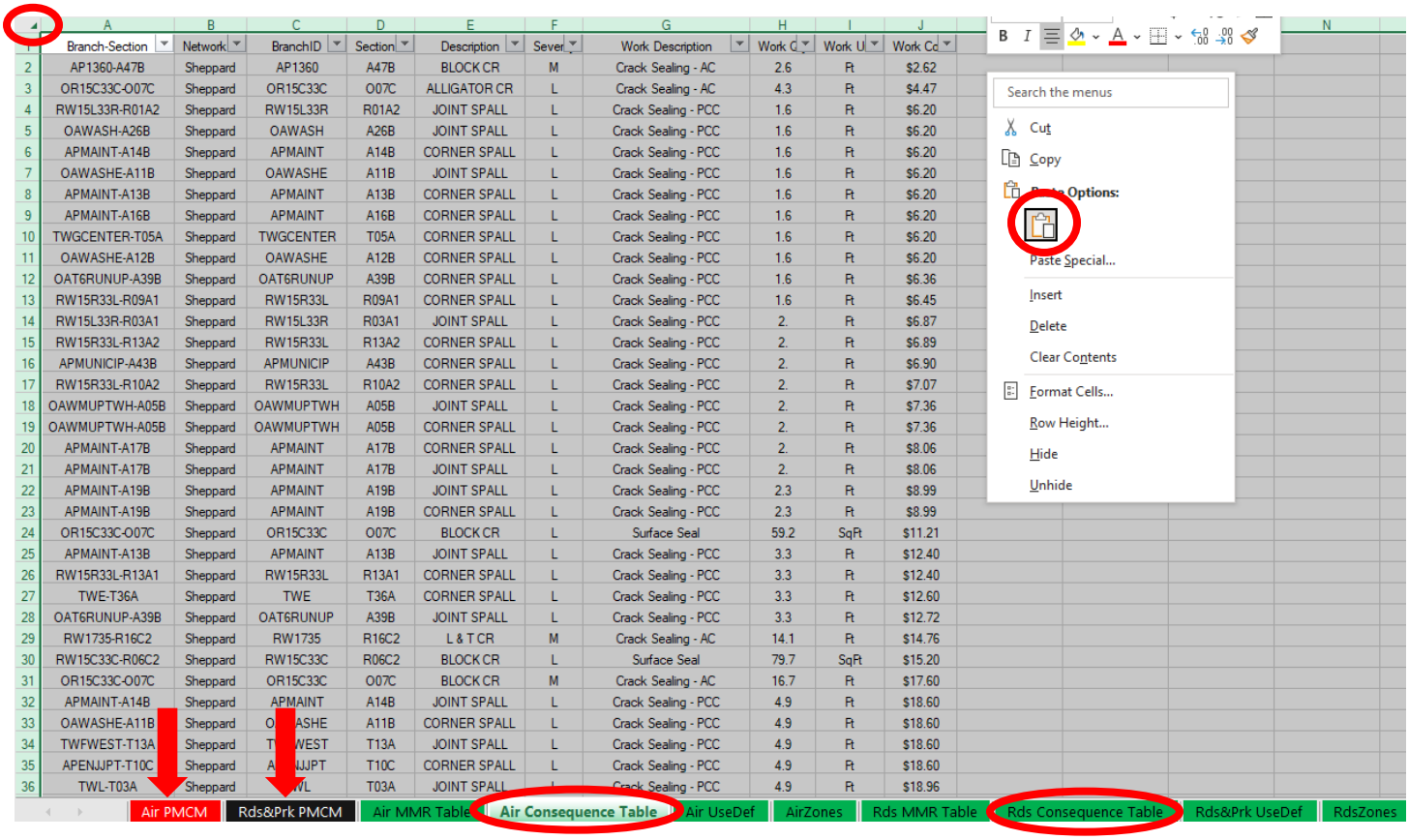
2.2.17 Open the PMP Appendices Workbook and go to either the "Air Consequence Table" or the "Rds Consequence Table". If it isn't shown then go to the bottom of the table, right-click on any of the page tabs and select "Unhide", then select "Air Consequence Table" and/or the "Rds Consequence Table", then click OK.



2.2.18 On the spreadsheet built from PAVER, select the entire page using the button and copy the entire page.
NOTE: Do not delete any requirements from this spreadsheet.

	A	B	C	D	E	F	G	H	I	J
1	Branch-Section	Network	BranchID	Section	Description	Sever	Work Description	Work Q	Work U	Work Co
2	AP1360-A47B	Sheppard	AP1360	A47B	BLOCK CR	M	Crack Sealing - AC	2.6	Ft	$2.62
3	OR15C33C-O07C	Sheppard	OR15C33C	O07C	ALLIGATOR CR	L	Crack Sealing - AC	4.3	Ft	$4.47
4	RW15L33R-R01A2	Sheppard	RW15L33R	R01A2	JOINT SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
5	OAWASH-A26B	Sheppard	OAWASH	A26B	JOINT SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
6	APMAINT-A14B	Sheppard	APMAINT	A14B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
7	OAWASHE-A11B	Sheppard	OAWASHE	A11B	JOINT SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
8	APMAINT-A13B	Sheppard	APMAINT	A13B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
9	APMAINT-A16B	Sheppard	APMAINT	A16B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
10	TWGCENTER-T05A	Sheppard	TWGCENTER	T05A	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20

2.2.19 In the PMP Appendices Workbook select the "Air Consequence Table" or "Rds Consequence Table" tab. Select the entire page using the button, right click and paste the data from the table you just. With the data in the proper format, the data should automatically populate the "Air PMCM" or "Rds&Prk PMCM" tab. These tabs will also pull data from the User Defined (UseDef) tables, once they have been completed, so "NA" will appear until all green tabs have been accomplished.



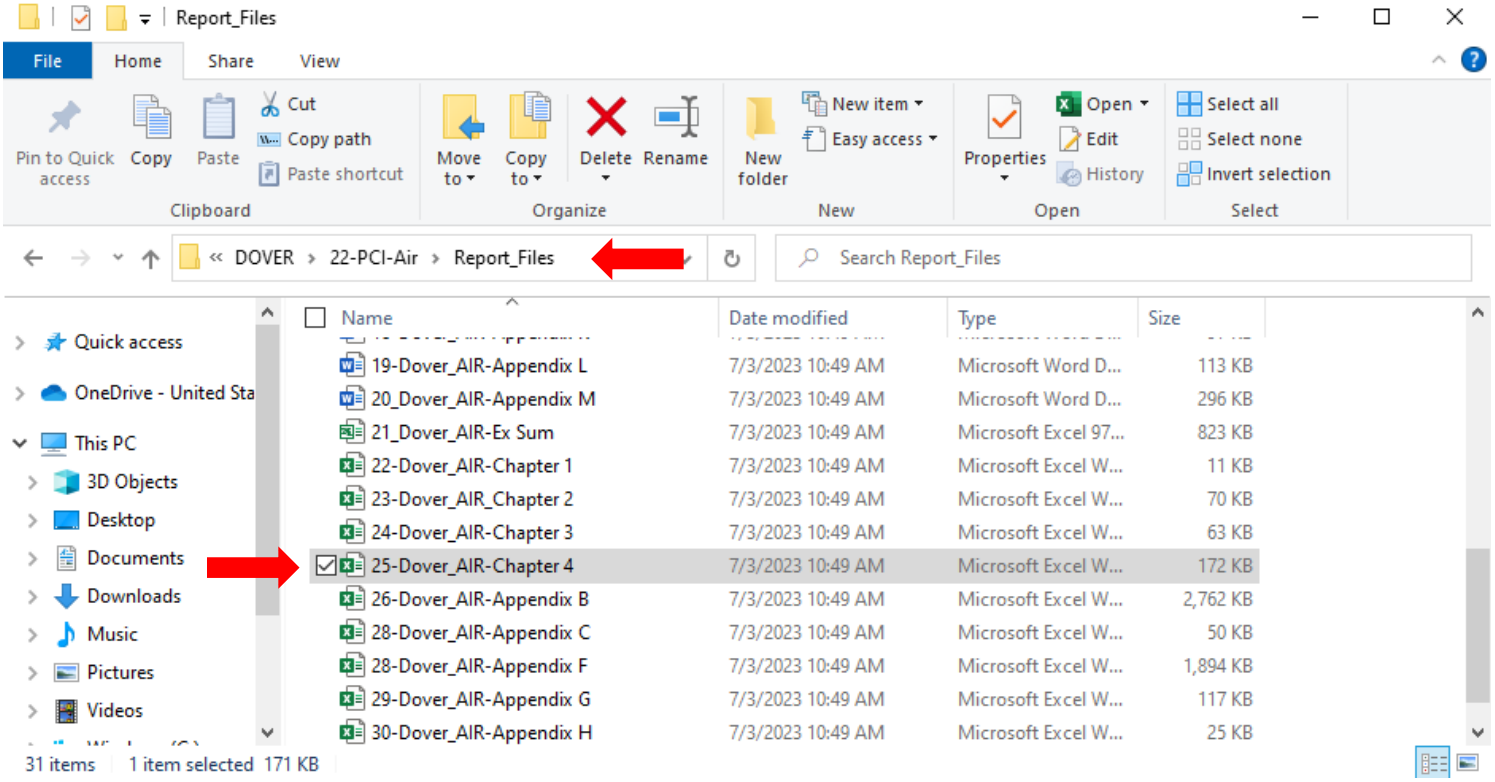
	A	B	C	D	E	F	G	H	I	J
1	Branch-Section	Network	BranchID	Section	Description	Sever	Work Description	Work Q	Work U	Work Cc
2	AP1360-A47B	Sheppard	AP1360	A47B	BLOCK CR	M	Crack Sealing - AC	2.6	Ft	$2.62
3	OR15C33C-O07C	Sheppard	OR15C33C	O07C	ALLIGATOR CR	L	Crack Sealing - AC	4.3	Ft	$4.47
4	RW15L33R-R01A2	Sheppard	RW15L33R	R01A2	JOINT SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
5	OAWASH-A26B	Sheppard	OAWASH	A26B	JOINT SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
6	APMAINT-A14B	Sheppard	APMAINT	A14B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
7	OAWASHE-A11B	Sheppard	OAWASHE	A11B	JOINT SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
8	APMAINT-A13B	Sheppard	APMAINT	A13B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
9	APMAINT-A16B	Sheppard	APMAINT	A16B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
10	TWGCENTER-T05A	Sheppard	TWGCENTER	T05A	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
11	OAWASHE-A12B	Sheppard	OAWASHE	A12B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.20
12	OAT6RUNUP-A39B	Sheppard	OAT6RUNUP	A39B	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.36
13	RW15R33L-R09A1	Sheppard	RW15R33L	R09A1	CORNER SPALL	L	Crack Sealing - PCC	1.6	Ft	$6.45
14	RW15L33R-R03A1	Sheppard	RW15L33R	R03A1	JOINT SPALL	L	Crack Sealing - PCC	2.	Ft	$6.87
15	RW15R33L-R13A2	Sheppard	RW15R33L	R13A2	CORNER SPALL	L	Crack Sealing - PCC	2.	Ft	$6.89
16	APMUNICIP-A43B	Sheppard	APMUNICIP	A43B	CORNER SPALL	L	Crack Sealing - PCC	2.	Ft	$6.90
17	RW15R33L-R10A2	Sheppard	RW15R33L	R10A2	CORNER SPALL	L	Crack Sealing - PCC	2.	Ft	$7.07
18	OAWMUPTWH-A05B	Sheppard	OAWMUPTWH	A05B	JOINT SPALL	L	Crack Sealing - PCC	2.	Ft	$7.36
19	OAWMUPTWH-A05B	Sheppard	OAWMUPTWH	A05B	CORNER SPALL	L	Crack Sealing - PCC	2.	Ft	$7.36
20	APMAINT-A17B	Sheppard	APMAINT	A17B	CORNER SPALL	L	Crack Sealing - PCC	2.	Ft	$8.06
21	APMAINT-A17B	Sheppard	APMAINT	A17B	JOINT SPALL	L	Crack Sealing - PCC	2.	Ft	$8.06
22	APMAINT-A19B	Sheppard	APMAINT	A19B	JOINT SPALL	L	Crack Sealing - PCC	2.3	Ft	$8.99
23	APMAINT-A19B	Sheppard	APMAINT	A19B	CORNER SPALL	L	Crack Sealing - PCC	2.3	Ft	$8.99
24	OR15C33C-O07C	Sheppard	OR15C33C	O07C	BLOCK CR	L	Surface Seal	59.2	SqFt	$11.21
25	APMAINT-A13B	Sheppard	APMAINT	A13B	JOINT SPALL	L	Crack Sealing - PCC	3.3	Ft	$12.40
26	RW15R33L-R13A1	Sheppard	RW15R33L	R13A1	CORNER SPALL	L	Crack Sealing - PCC	3.3	Ft	$12.40
27	TWE-T36A	Sheppard	TWE	T36A	CORNER SPALL	L	Crack Sealing - PCC	3.3	Ft	$12.60
28	OAT6RUNUP-A39B	Sheppard	OAT6RUNUP	A39B	JOINT SPALL	L	Crack Sealing - PCC	3.3	Ft	$12.72
29	RW1735-R16C2	Sheppard	RW1735	R16C2	L & T CR	M	Crack Sealing - AC	14.1	Ft	$14.76
30	RW15C33C-R06C2	Sheppard	RW15C33C	R06C2	BLOCK CR	L	Surface Seal	79.7	SqFt	$15.20
31	OR15C33C-O07C	Sheppard	OR15C33C	O07C	BLOCK CR	M	Crack Sealing - AC	16.7	Ft	$17.60
32	APMAINT-A14B	Sheppard	APMAINT	A14B	JOINT SPALL	L	Crack Sealing - PCC	4.9	Ft	$18.60
33	OAWASHE-A11B	Sheppard	OAWASHE	A11B	CORNER SPALL	L	Crack Sealing - PCC	4.9	Ft	$18.60
34	TWFWEST-T13A	Sheppard	TWFWEST	T13A	JOINT SPALL	L	Crack Sealing - PCC	4.9	Ft	$18.60
35	APENJJPT-T10C	Sheppard	APENJJPT	T10C	CORNER SPALL	L	Crack Sealing - PCC	4.9	Ft	$18.60
36	TWL-T03A	Sheppard	TWL	T03A	JOINT SPALL	L	Crack Sealing - PCC	4.9	Ft	$18.96

2.2.20 Repeat these steps for the remaining pavement network (Airfield or Roads & Parking).

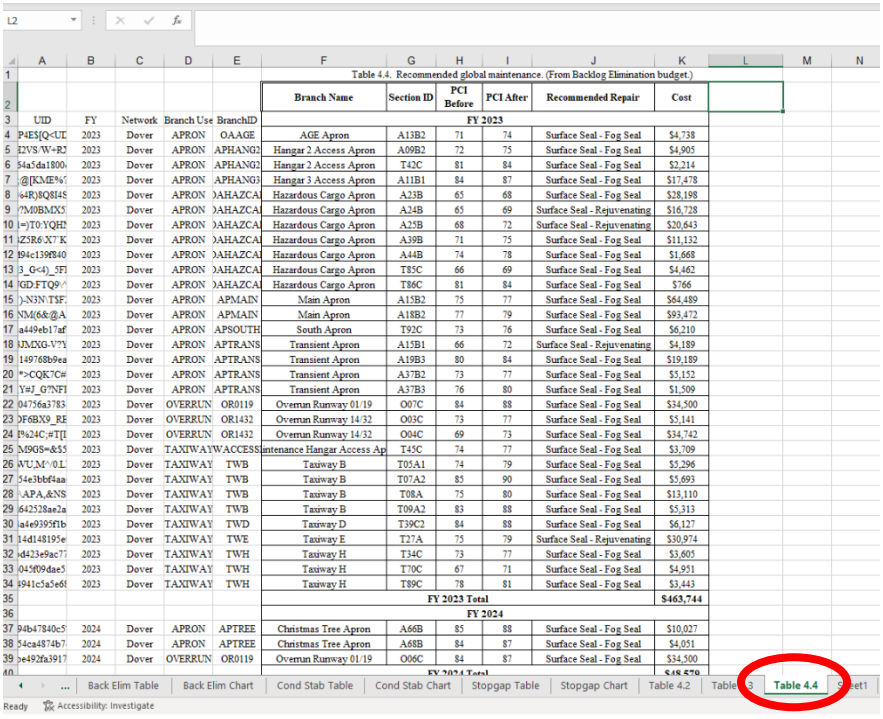
SAVE YOUR WORK!!

2.3 PMP Global Table Instructions

2.3.1 Retrieve the *Current* digital (Excel) PCI report for your installation. You should have the CD with the report and all data. Open the folder named "XX-PCI-Airfield", or "XX-PCI-Roads and Parking" depending on the desired system. Open the folder named Report Components or Files. Find the Chapter 4 tables and open the Excel spreadsheet.



2.3.2 Once the spreadsheet is open, go to the tab *Table 4.4* Global Maintenance (Table # may differ).



2.3.3 Select the entire page using the button and copy the entire page and paste the data in a new workbook that has been saved to your selected location.

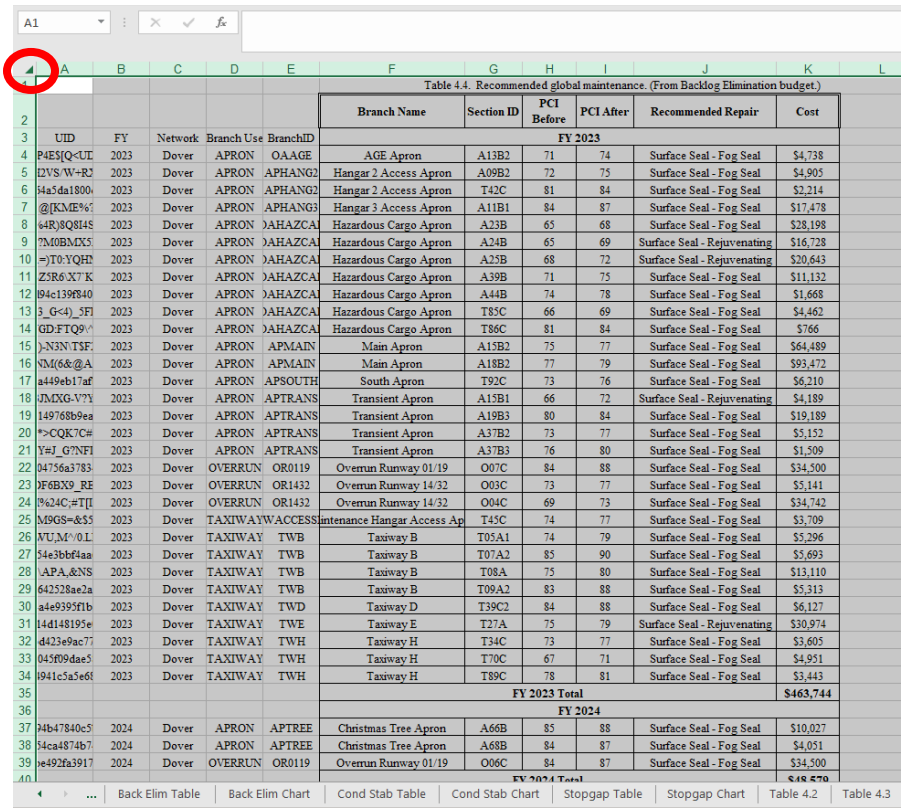
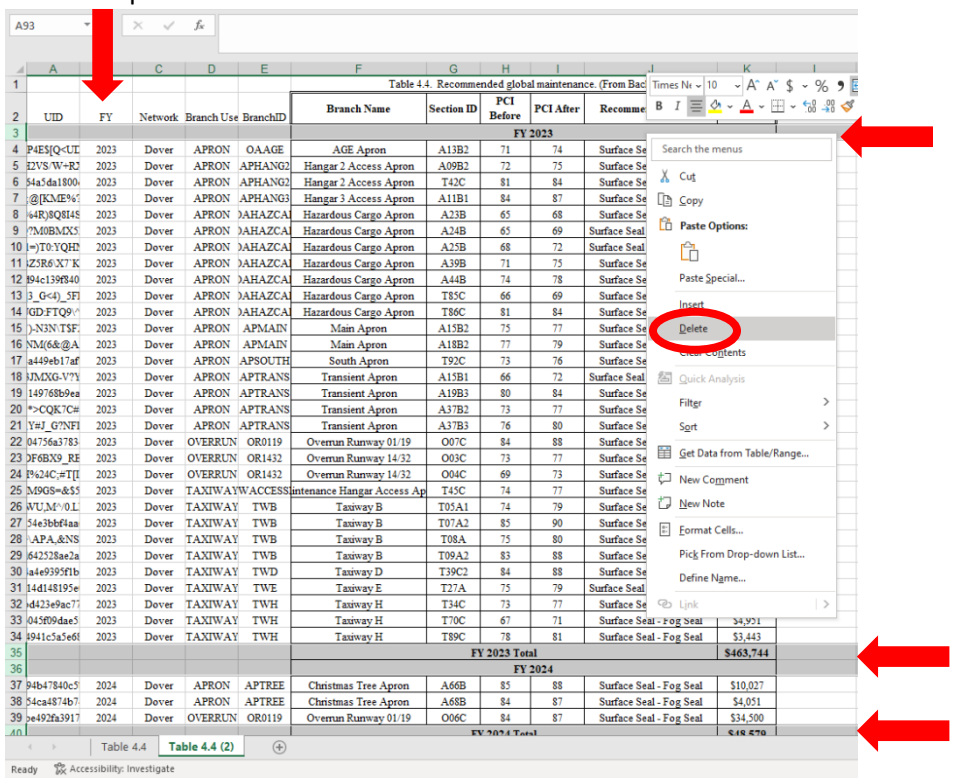


Table 4.4. Recommended global maintenance. (From Backlog Elimination budget.)

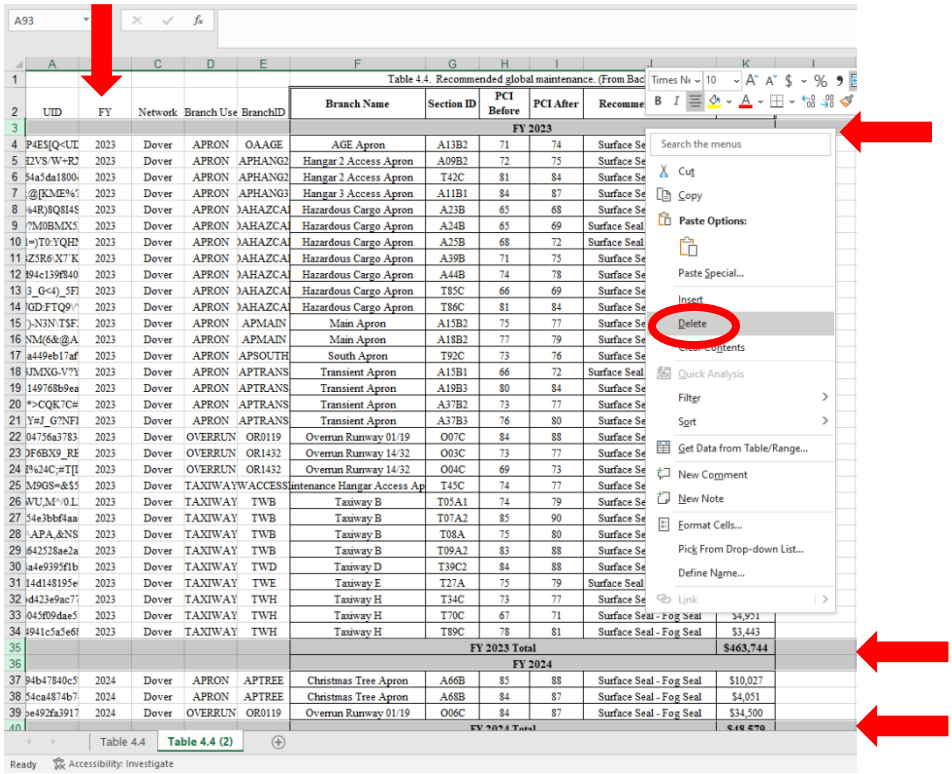
UID	FY	Network	Branch Use	BranchID	Branch Name	Section ID	PCI Before	PCI After	Recommended Repair	Cost
					FY 2023					
P4E$[Q<UL	2023	Dover	APRON	OAAGE	AGE Apron	A13B2	71	74	Surface Seal - Fog Seal	$4,738
D2VS/W+R2	2023	Dover	APRON	APHANG2	Hangar 2 Access Apron	A09B2	72	75	Surface Seal - Fog Seal	$4,905
54a5da1800	2023	Dover	APRON	APHANG2	Hangar 2 Access Apron	T42C	81	84	Surface Seal - Fog Seal	$2,214
@[KME%7	2023	Dover	APRON	APHANG3	Hangar 3 Access Apron	A11B1	84	87	Surface Seal - Fog Seal	$17,478
64R)8Q8I4S	2023	Dover	APRON	)AHAZCAI	Hazardous Cargo Apron	A23B	65	68	Surface Seal - Fog Seal	$28,198
?M0BMX5	2023	Dover	APRON	)AHAZCAI	Hazardous Cargo Apron	A24B	65	69	Surface Seal - Rejuvenating	$16,728
=)T0:YQH?	2023	Dover	APRON	)AHAZCAI	Hazardous Cargo Apron	A25B	68	72	Surface Seal - Rejuvenating	$20,643
Z5R6\X7`K	2023	Dover	APRON	)AHAZCAI	Hazardous Cargo Apron	A39B	71	75	Surface Seal - Fog Seal	$11,132
194c139f840	2023	Dover	APRON	)AHAZCAI	Hazardous Cargo Apron	A44B	74	78	Surface Seal - Fog Seal	$1,668
3_G<4)_5F]	2023	Dover	APRON	)AHAZCAI	Hazardous Cargo Apron	T85C	66	69	Surface Seal - Fog Seal	$4,462
GD:FTQ9\^	2023	Dover	APRON	)AHAZCAI	Hazardous Cargo Apron	T86C	81	84	Surface Seal - Fog Seal	$766
)-N3N\T$F:	2023	Dover	APRON	APMAIN	Main Apron	A15B2	75	77	Surface Seal - Fog Seal	$64,489
NM(6&@A	2023	Dover	APRON	APMAIN	Main Apron	A18B2	77	79	Surface Seal - Fog Seal	$93,472
a449eb17af	2023	Dover	APRON	APSOUTH	South Apron	T92C	73	76	Surface Seal - Fog Seal	$6,210
JMXG-V?Y	2023	Dover	APRON	APTRANS	Transient Apron	A15B1	66	72	Surface Seal - Rejuvenating	$4,189
149768b9ea	2023	Dover	APRON	APTRANS	Transient Apron	A19B3	80	84	Surface Seal - Fog Seal	$19,189
*>CQK7C#	2023	Dover	APRON	APTRANS	Transient Apron	A37B2	73	77	Surface Seal - Fog Seal	$5,152
Y#J_G?NF]	2023	Dover	APRON	APTRANS	Transient Apron	A37B3	76	80	Surface Seal - Fog Seal	$1,509
04756a3783	2023	Dover	OVERRUN	OR0119	Overrun Runway 01/19	O07C	84	88	Surface Seal - Fog Seal	$34,500
)F6BX9_RE	2023	Dover	OVERRUN	OR1432	Overrun Runway 14/32	O03C	73	77	Surface Seal - Fog Seal	$5,141
!%24C;#T[I	2023	Dover	OVERRUN	OR1432	Overrun Runway 14/32	O04C	69	73	Surface Seal - Fog Seal	$34,742
M9GS=&$5	2023	Dover	TAXIWAY	WACCESS	intenance Hangar Access Ap	T45C	74	77	Surface Seal - Fog Seal	$3,709
WU,M^/0L	2023	Dover	TAXIWAY	TWB	Taxiway B	T05A1	74	79	Surface Seal - Fog Seal	$5,296
54e3bbf4aa	2023	Dover	TAXIWAY	TWB	Taxiway B	T07A2	85	90	Surface Seal - Fog Seal	$5,693
APA,&NS	2023	Dover	TAXIWAY	TWB	Taxiway B	T08A	75	80	Surface Seal - Fog Seal	$13,110
642528ae2a	2023	Dover	TAXIWAY	TWB	Taxiway B	T09A2	83	88	Surface Seal - Fog Seal	$5,313
a4e9395f1b	2023	Dover	TAXIWAY	TWD	Taxiway D	T39C2	84	88	Surface Seal - Fog Seal	$6,127
14d148195e	2023	Dover	TAXIWAY	TWE	Taxiway E	T27A	75	79	Surface Seal - Rejuvenating	$30,974
d423e9ac77	2023	Dover	TAXIWAY	TWH	Taxiway H	T34C	73	77	Surface Seal - Fog Seal	$3,605
045f09dae5	2023	Dover	TAXIWAY	TWH	Taxiway H	T70C	67	71	Surface Seal - Fog Seal	$4,951
941c5a5e6	2023	Dover	TAXIWAY	TWH	Taxiway H	T89C	78	81	Surface Seal - Fog Seal	$3,443
					FY 2023 Total					$463,744
					FY 2024					
94b47840c5	2024	Dover	APRON	APTREE	Christmas Tree Apron	A66B	85	88	Surface Seal - Fog Seal	$10,027
54ca4874b7	2024	Dover	APRON	APTREE	Christmas Tree Apron	A68B	84	87	Surface Seal - Fog Seal	$4,051
e492fa3917	2024	Dover	OVERRUN	OR0119	Overrun Runway 01/19	O06C	84	87	Surface Seal - Fog Seal	$34,500

Back Elim Table | Back Elim Chart | Cond Stab Table | Cond Stab Chart | Stopgap Table | Stopgap Chart | Table 4.2 | Table 4.3

2.3.4 Delete all rows with “Subtotals” and “All Recommended Global M&R” and shift rows up. Note: Before deleting make sure the FY year for each requirement is listed on a column to the side.

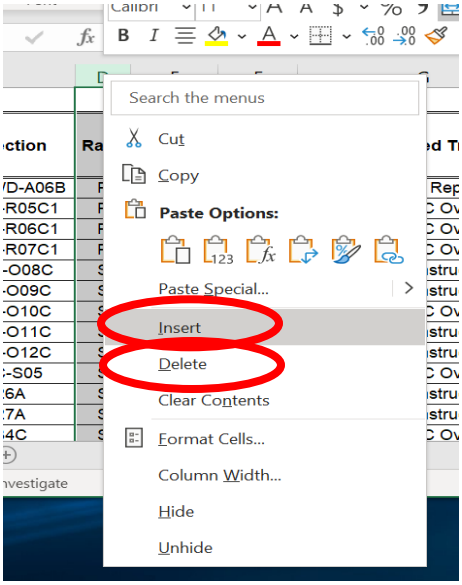


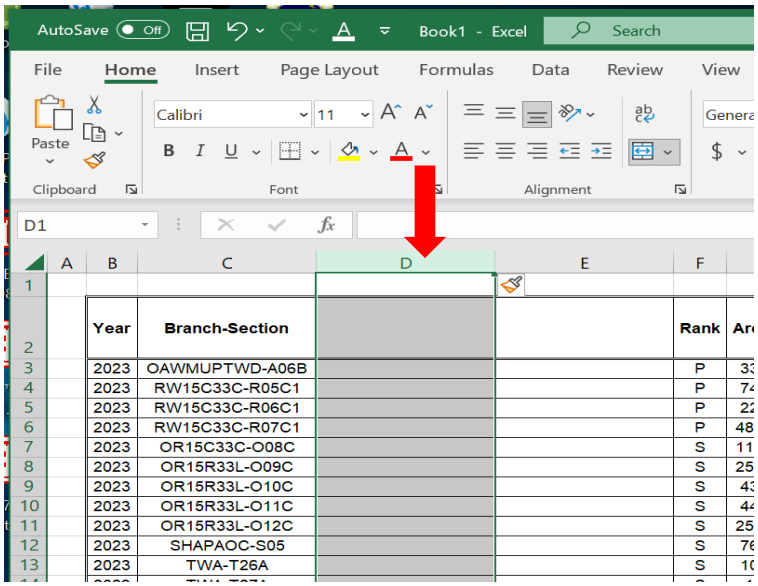
2.3.5 Delete all unnecessary columns and only keep the ones in the order shown below.



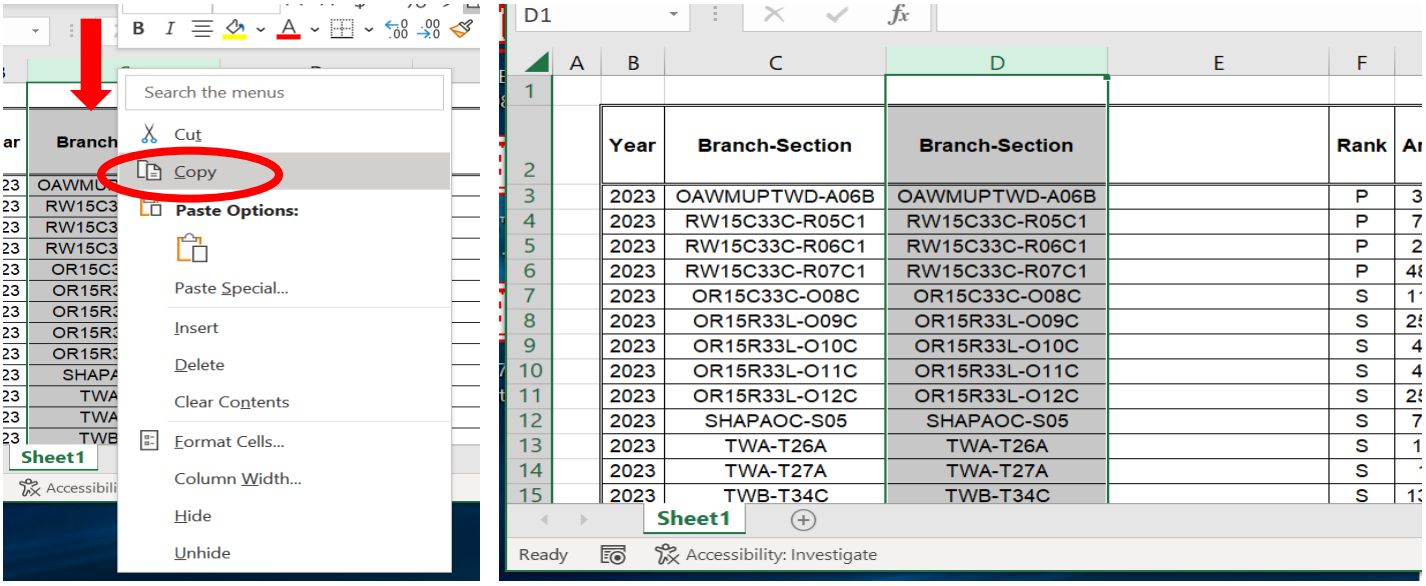
If the table already has BranchID & SectionID separated skip to step 2.4.6.1. Otherwise, in the file you created, you must create the columns to standardize the column order.

2.3.5.1 Insert 2 columns after “Branch-Section”.

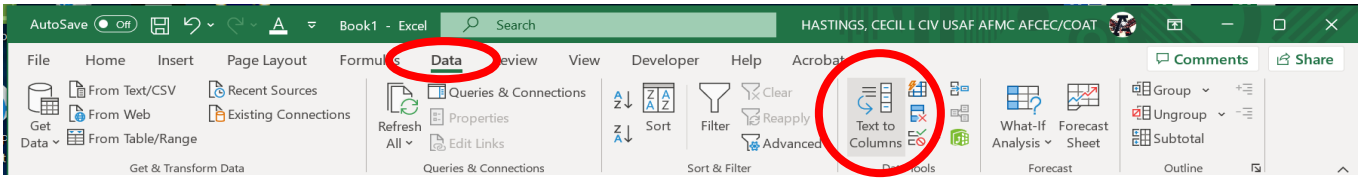




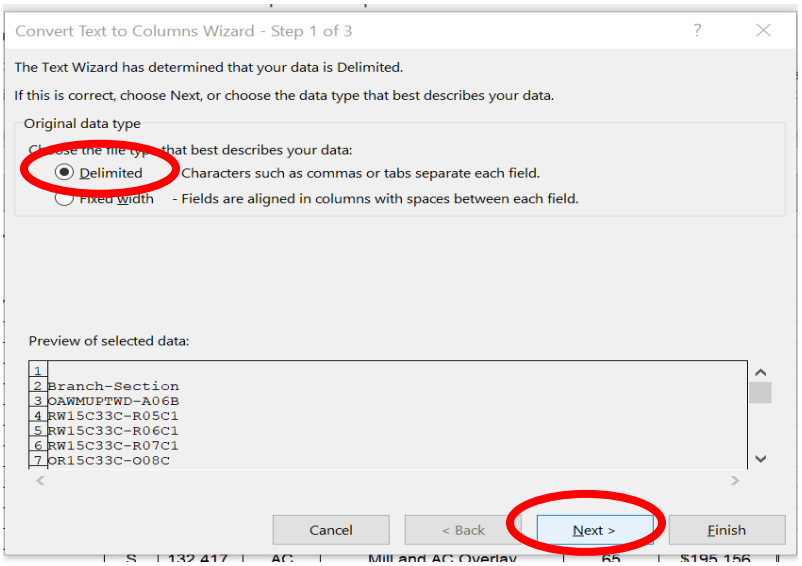
2.3.5.2 Copy Branch-Section (column C) and paste to column D.



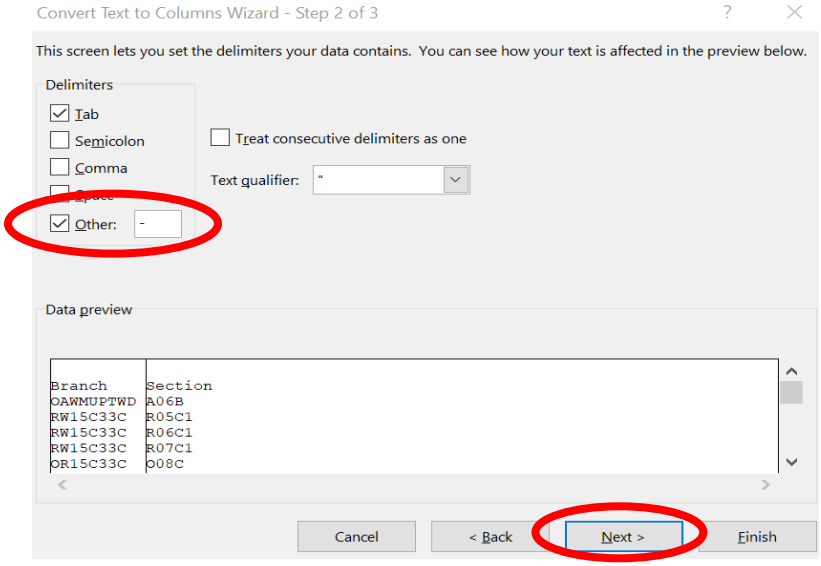
2.3.5.3 With column D highlighted, select the Data Tab. Then select “Text to Columns”.



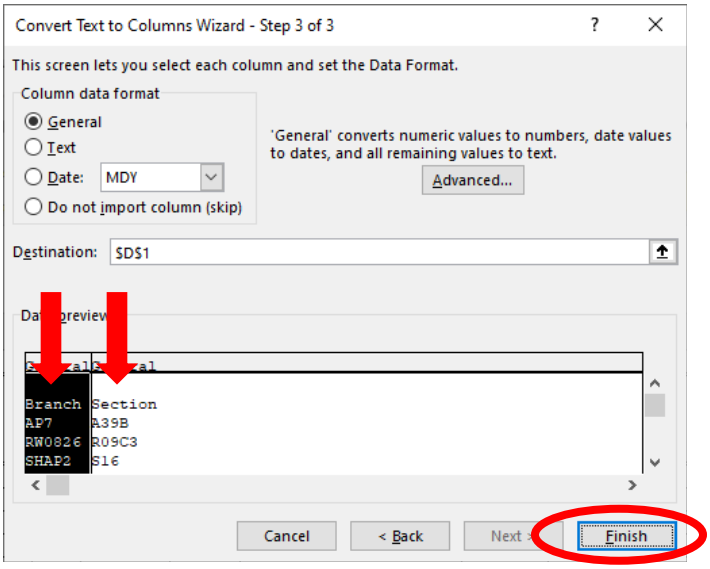
2.3.5.4 You will see this screen. With “Delimited” selected, click “Next”.

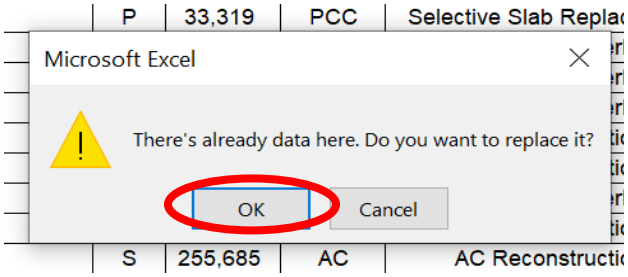


2.3.5.5 Select “Other” box and enter a dash (minus sign) in the adjacent box and then click next.

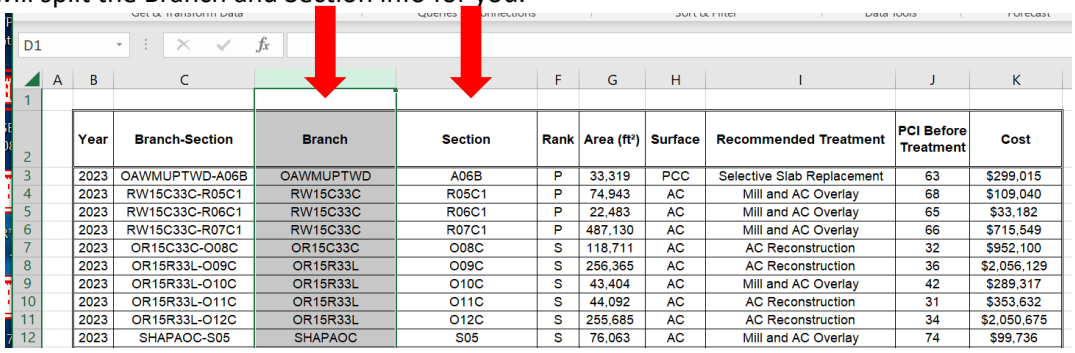


2.3.5.6 All the selections should be correct, if so click “Finish” then “OK”.



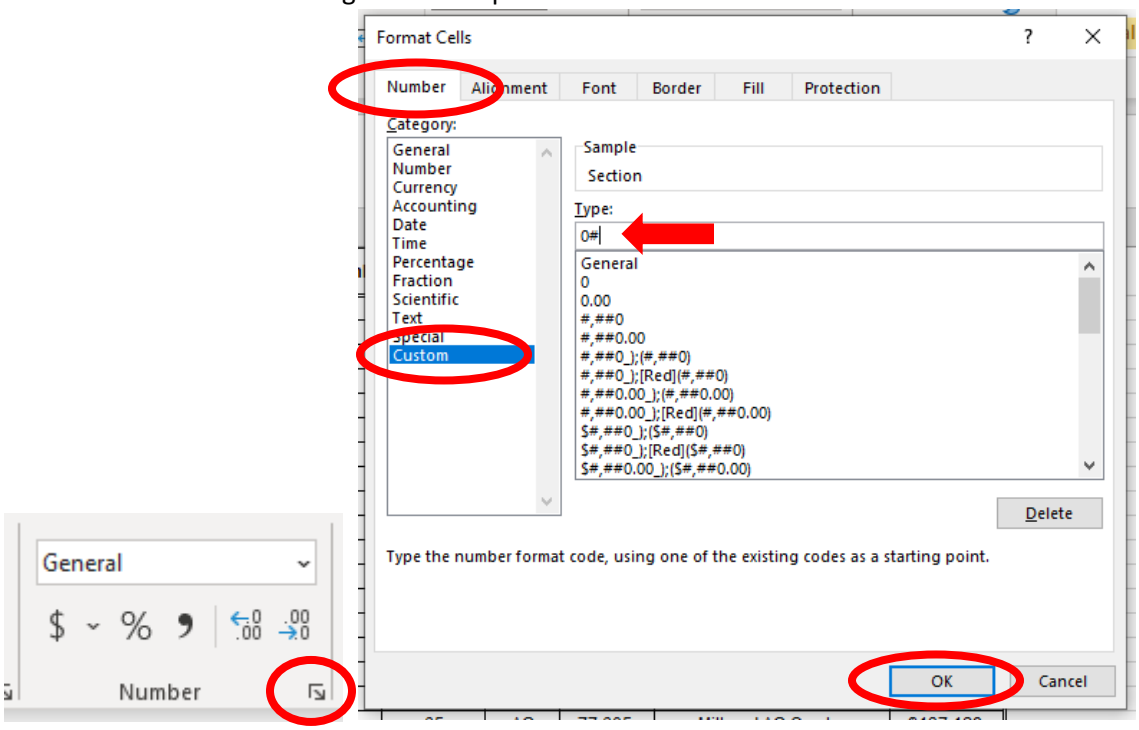


2.3.5.7 Excel will split the Branch and Section info for you.



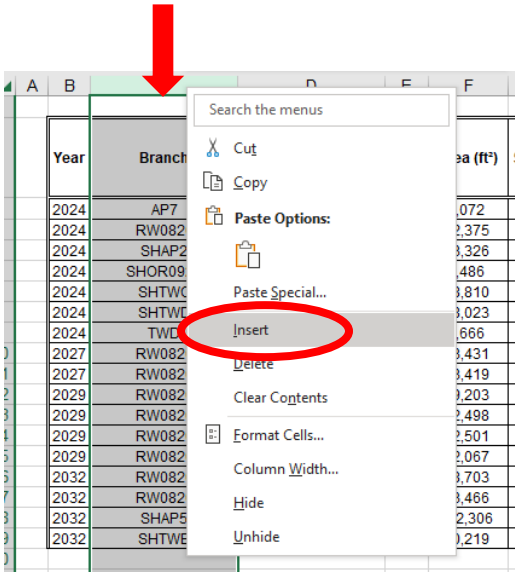
Year	Branch-Section	Branch	Section	Rank	Area (ft²)	Surface	Recommended Treatment	PCI Before Treatment	Cost
2023	OAWMUPTWD-A06B	OAWMUPTWD	A06B	P	33,319	PCC	Selective Slab Replacement	63	$299,015
2023	RW15C33C-R05C1	RW15C33C	R05C1	P	74,943	AC	Mill and AC Overlay	68	$109,040
2023	RW15C33C-R06C1	RW15C33C	R06C1	P	22,483	AC	Mill and AC Overlay	65	$33,182
2023	RW15C33C-R07C1	RW15C33C	R07C1	P	487,130	AC	Mill and AC Overlay	66	$715,549
2023	OR15C33C-O08C	OR15C33C	O08C	S	118,711	AC	AC Reconstruction	32	$952,100
2023	OR15R33L-O09C	OR15R33L	O09C	S	256,365	AC	AC Reconstruction	36	$2,056,129
2023	OR15R33L-O10C	OR15R33L	O10C	S	43,404	AC	Mill and AC Overlay	42	$289,317
2023	OR15R33L-O11C	OR15R33L	O11C	S	44,092	AC	AC Reconstruction	31	$353,632
2023	OR15R33L-O12C	OR15R33L	O12C	S	255,685	AC	AC Reconstruction	34	$2,050,675
2023	SHAPAOC-S05	SHAPAOC	S05	S	76,063	AC	Mill and AC Overlay	74	$99,736

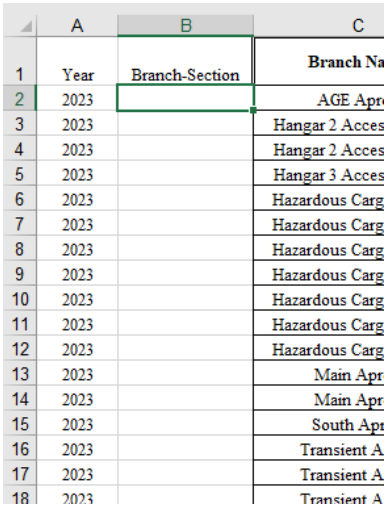
2.3.5.8 For Roads & Parking, to return the front zero in the Section Column. Highlight the Section column and format the column to Custom – "0#" to get the zero placed back.



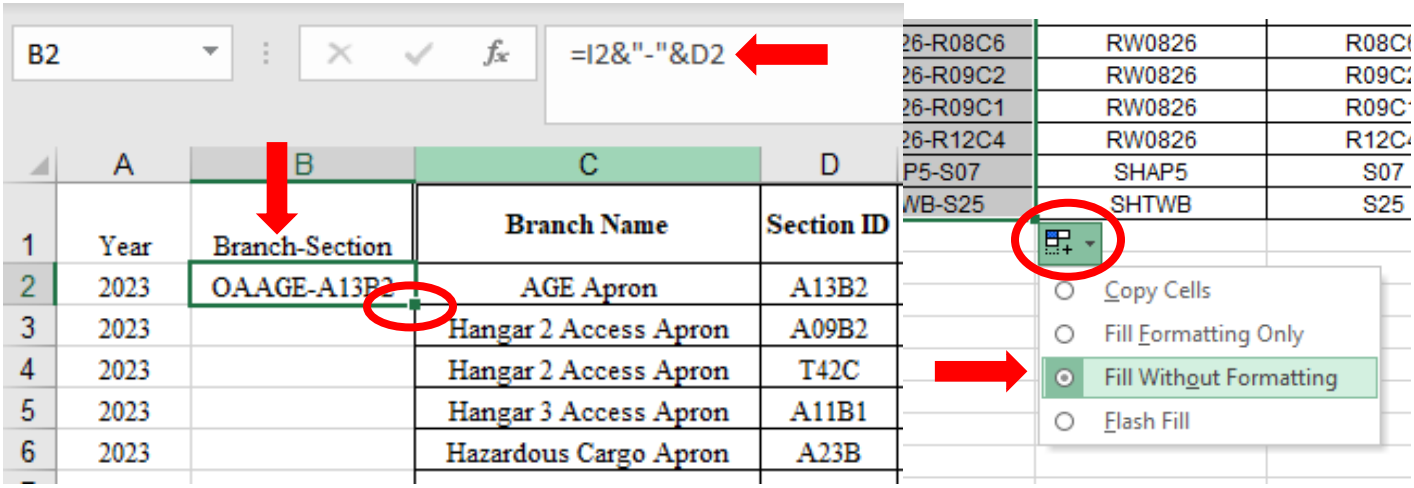
2.3.6 If you just completed step 2.1.5, skip to step 2.1.7. Otherwise for tables that have BranchID & SectionID already separated follow the steps below to create a combined Branch-Section column.

2.3.6.1 Insert or overwrite an existing unneeded column after Year.





2.3.6.2 Label the column “Branch-Section” and in cell B2, copy =I2&"-"&D2 and paste it directly in the cell. With cell B3 highlighted double click on the small box in the bottom right corner to auto fill the formula down to the last entry. Or drag it down to the last entry to do the same. Formatting does not matter but you can “Fill Without Formatting”.



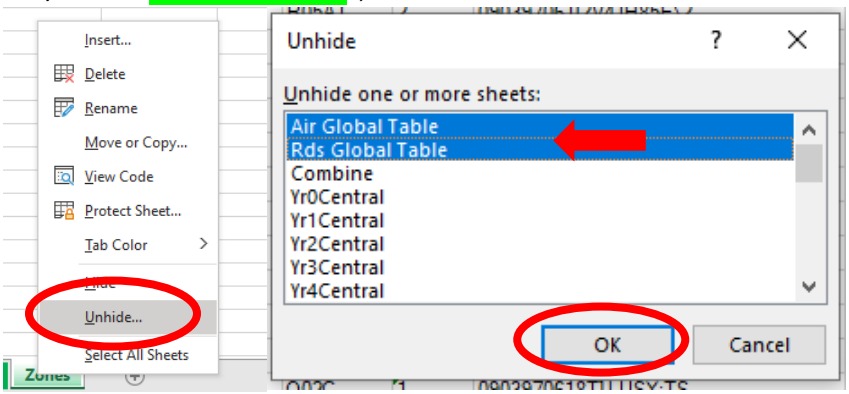
2.3.7 If BranchID is not already filled in leave blank for now. This will be covered in step 2.4.12.

2.3.8 ***If not already done***, delete the first row (1) and column (A) then simply cut and paste the columns into the prescribed order.

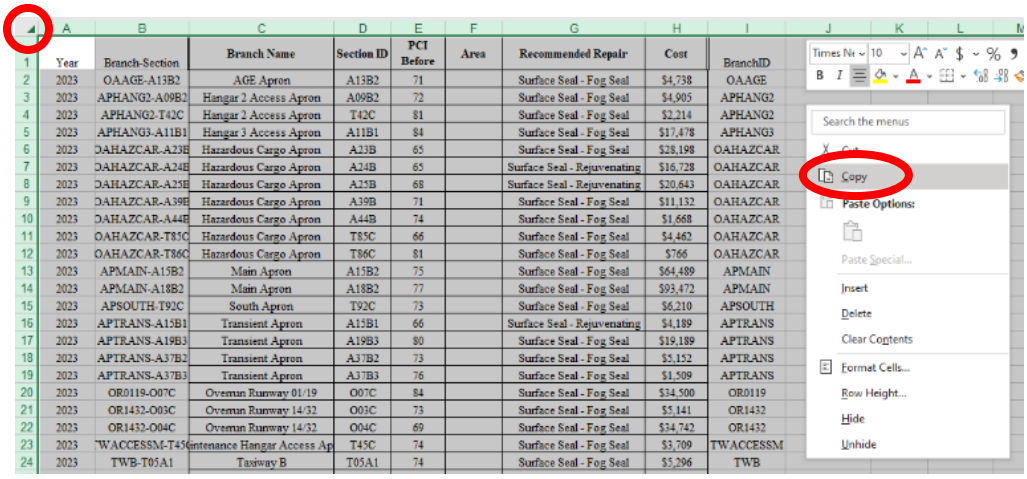
Year–Branch-Section–Branch Name–Section ID–PCI Before–Area–Recommended Repair–Cost–BranchID

Year	Branch-Section	Branch Name	Section ID	PCI Before	Area	Recommended Repair	Cost	BranchID
2023	OAAGE-A13B2	AGE Apron	A13B2	71		Surface Seal - Fog Seal	$4,738	OAAGE
2023	APHANG2-A09B2	Hangar 2 Access Apron	A09B2	72		Surface Seal - Fog Seal	$4,905	APHANG2
2023	APHANG2-T42C	Hangar 2 Access Apron	T42C	81		Surface Seal - Fog Seal	$2,214	APHANG2
2023	APHANG3-A11B1	Hangar 3 Access Apron	A11B1	84		Surface Seal - Fog Seal	$17,478	APHANG3

2.3.9 Open the PMP Appendices Workbook and go to either the “Air Global Table” or the “Rds Global Table” tabs. If they aren’t shown then go to the bottom of the table, right-click on any of the page tabs and select “Unhide”, then select “Air Global Table” and/or the “Rds Global Table”, then click OK.

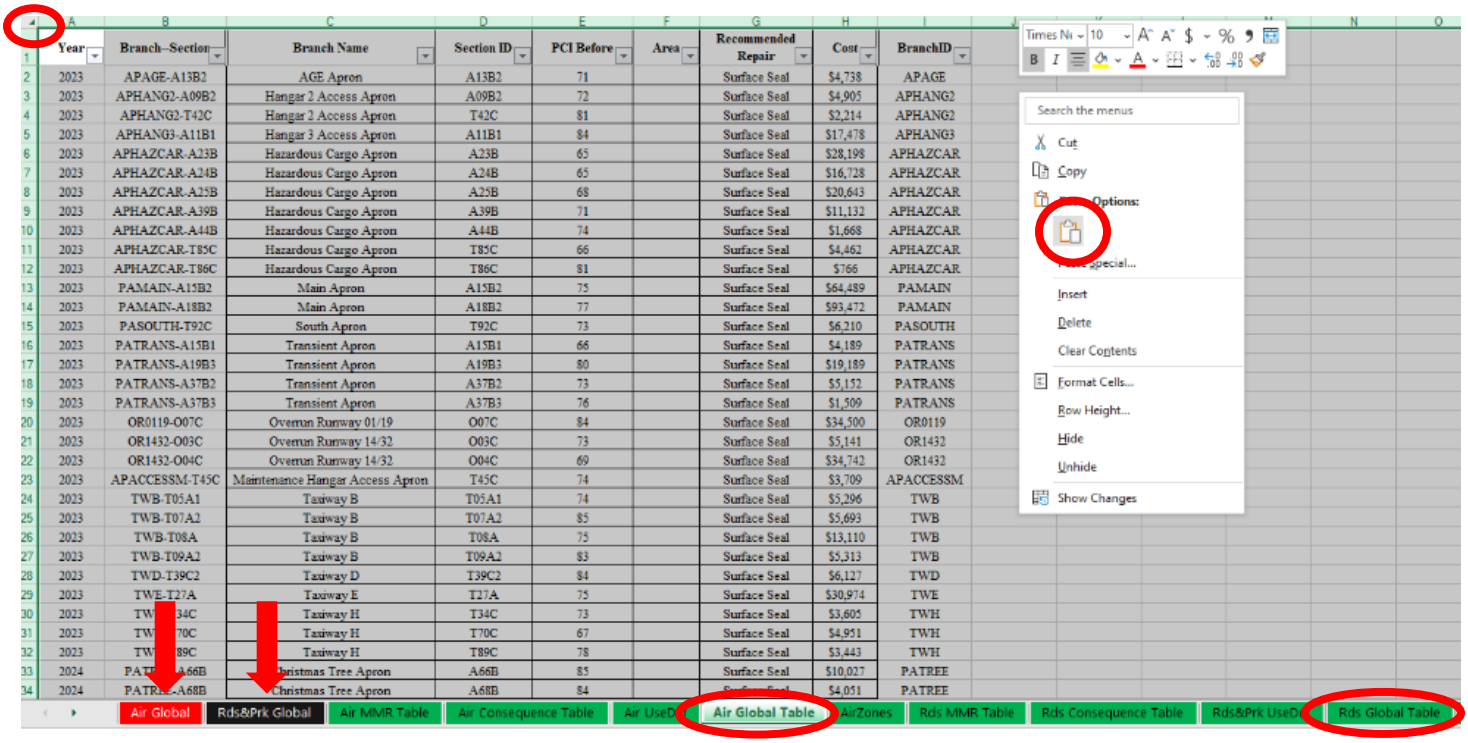


2.3.10 On the newly created table from the PCI report, select the entire page using the button and copy the entire page.
NOTE: The data should begin in cell A1 – no blank line at the top and no blank column at the left.



Year	Branch-Section	Branch Name	Section ID	PCI Before	Area	Recommended Repair	Cost	BranchID
2023	OAAGE-A13B2	AGE Apron	A13B2	71		Surface Seal - Fog Seal	$4,738	OAAGE
2023	APHANG2-A09B2	Hangar 2 Access Apron	A09B2	72		Surface Seal - Fog Seal	$4,905	APHANG2
2023	APHANG2-T42C	Hangar 2 Access Apron	T42C	81		Surface Seal - Fog Seal	$2,214	APHANG2
2023	APHANG3-A11B1	Hangar 3 Access Apron	A11B1	84		Surface Seal - Fog Seal	$17,478	APHANG3
2023	OAHAZCAR-A23B	Hazardous Cargo Apron	A23B	65		Surface Seal - Fog Seal	$28,198	OAHAZCAR
2023	OAHAZCAR-A24B	Hazardous Cargo Apron	A24B	65		Surface Seal - Rejuvenating	$16,728	OAHAZCAR
2023	OAHAZCAR-A25B	Hazardous Cargo Apron	A25B	68		Surface Seal - Rejuvenating	$20,643	OAHAZCAR
2023	OAHAZCAR-A39B	Hazardous Cargo Apron	A39B	71		Surface Seal - Fog Seal	$11,132	OAHAZCAR
2023	OAHAZCAR-A44B	Hazardous Cargo Apron	A44B	74		Surface Seal - Fog Seal	$1,668	OAHAZCAR
2023	OAHAZCAR-T85C	Hazardous Cargo Apron	T85C	66		Surface Seal - Fog Seal	$4,462	OAHAZCAR
2023	OAHAZCAR-T86C	Hazardous Cargo Apron	T86C	81		Surface Seal - Fog Seal	$766	OAHAZCAR
2023	APMAIN-A15B2	Main Apron	A15B2	75		Surface Seal - Fog Seal	$64,489	APMAIN
2023	APMAIN-A18B2	Main Apron	A18B2	77		Surface Seal - Fog Seal	$93,472	APMAIN
2023	APSOUTH-T92C	South Apron	T92C	73		Surface Seal - Fog Seal	$6,210	APSOUTH
2023	APTRANS-A15B1	Transient Apron	A15B1	66		Surface Seal - Rejuvenating	$4,189	APTRANS
2023	APTRANS-A19B3	Transient Apron	A19B3	80		Surface Seal - Fog Seal	$19,189	APTRANS
2023	APTRANS-A37B2	Transient Apron	A37B2	73		Surface Seal - Fog Seal	$5,152	APTRANS
2023	APTRANS-A37B3	Transient Apron	A37B3	76		Surface Seal - Fog Seal	$1,509	APTRANS
2023	OR0119-O07C	Overrun Runway 01/19	O07C	84		Surface Seal - Fog Seal	$34,500	OR0119
2023	OR1432-O03C	Overrun Runway 14/32	O03C	73		Surface Seal - Fog Seal	$5,141	OR1432
2023	OR1432-O04C	Overrun Runway 14/32	O04C	69		Surface Seal - Fog Seal	$34,742	OR1432
2023	TWACCESSM-T45C	intenance Hangar Access Ap	T45C	74		Surface Seal - Fog Seal	$3,709	TWACCESSM
2023	TWB-T05A1	Taxiway B	T05A1	74		Surface Seal - Fog Seal	$5,296	TWB

2.3.11 In the PMP Appendices Workbook select the "Air Global Table" or "Rds Global Table" tab. Select the entire page using the button, right click and paste the data from the table you just completed. With the data in the proper format, the data should automatically populate the "Air Global" or "Rds&Prk Global" tab. These tabs will also pull data from the User Defined (UseDef) tables, once they have been completed, so "NA" will appear until all green tabs have been accomplished.



Year	Branch-Section	Branch Name	Section ID	PCI Before	Area	Recommended Repair	Cost	BranchID
2023	APAGE-A13B2	AGE Apron	A13B2	71		Surface Seal	$4,738	APAGE
2023	APHANG2-A09B2	Hangar 2 Access Apron	A09B2	72		Surface Seal	$4,905	APHANG2
2023	APHANG2-T42C	Hangar 2 Access Apron	T42C	81		Surface Seal	$2,214	APHANG2
2023	APHANG3-A11B1	Hangar 3 Access Apron	A11B1	84		Surface Seal	$17,478	APHANG3
2023	APHAZCAR-A23B	Hazardous Cargo Apron	A23B	65		Surface Seal	$28,198	APHAZCAR
2023	APHAZCAR-A24B	Hazardous Cargo Apron	A24B	65		Surface Seal	$16,728	APHAZCAR
2023	APHAZCAR-A25B	Hazardous Cargo Apron	A25B	68		Surface Seal	$20,643	APHAZCAR
2023	APHAZCAR-A39B	Hazardous Cargo Apron	A39B	71		Surface Seal	$11,132	APHAZCAR
2023	APHAZCAR-A44B	Hazardous Cargo Apron	A44B	74		Surface Seal	$1,668	APHAZCAR
2023	APHAZCAR-T85C	Hazardous Cargo Apron	T85C	66		Surface Seal	$4,462	APHAZCAR
2023	APHAZCAR-T86C	Hazardous Cargo Apron	T86C	81		Surface Seal	$766	APHAZCAR
2023	PAMAIN-A15B2	Main Apron	A15B2	75		Surface Seal	$64,489	PAMAIN
2023	PAMAIN-A18B2	Main Apron	A18B2	77		Surface Seal	$93,472	PAMAIN
2023	PASOUTH-T92C	South Apron	T92C	73		Surface Seal	$6,210	PASOUTH
2023	PATRANS-A15B1	Transient Apron	A15B1	66		Surface Seal	$4,189	PATRANS
2023	PATRANS-A19B3	Transient Apron	A19B3	80		Surface Seal	$19,189	PATRANS
2023	PATRANS-A37B2	Transient Apron	A37B2	73		Surface Seal	$5,152	PATRANS
2023	PATRANS-A37B3	Transient Apron	A37B3	76		Surface Seal	$1,509	PATRANS
2023	OR0119-O07C	Overrun Runway 01/19	O07C	84		Surface Seal	$34,500	OR0119
2023	OR1432-O03C	Overrun Runway 14/32	O03C	73		Surface Seal	$5,141	OR1432
2023	OR1432-O04C	Overrun Runway 14/32	O04C	69		Surface Seal	$34,742	OR1432
2023	APACCESSM-T45C	Maintenance Hangar Access Apron	T45C	74		Surface Seal	$3,709	APACCESSM
2023	TWB-T05A1	Taxiway B	T05A1	74		Surface Seal	$5,296	TWB
2023	TWB-T07A2	Taxiway B	T07A2	85		Surface Seal	$5,693	TWB
2023	TWB-T08A	Taxiway B	T08A	75		Surface Seal	$13,110	TWB
2023	TWB-T09A2	Taxiway B	T09A2	83		Surface Seal	$5,313	TWB
2023	TWD-T39C2	Taxiway D	T39C2	84		Surface Seal	$6,127	TWD
2023	TWE-T27A	Taxiway E	T27A	75		Surface Seal	$30,974	TWE
2023	TWH-T34C	Taxiway H	T34C	73		Surface Seal	$3,605	TWH
2023	TWH-T70C	Taxiway H	T70C	67		Surface Seal	$4,951	TWH
2023	TWH-T89C	Taxiway H	T89C	78		Surface Seal	$3,443	TWH
2024	PATREE-A66B	Christmas Tree Apron	A66B	85		Surface Seal	$10,027	PATREE
2024	PATREE-A68B	Christmas Tree Apron	A68B	84		Surface Seal	$4,051	PATREE

Air Global | Rds&Prk Global | Air MMR Table | Air Consequence Table | Air UseD | Air Global Table | AirZones | Rds MMR Table | Rds Consequence Table | Rds&Prk UseD | Rds Global Table

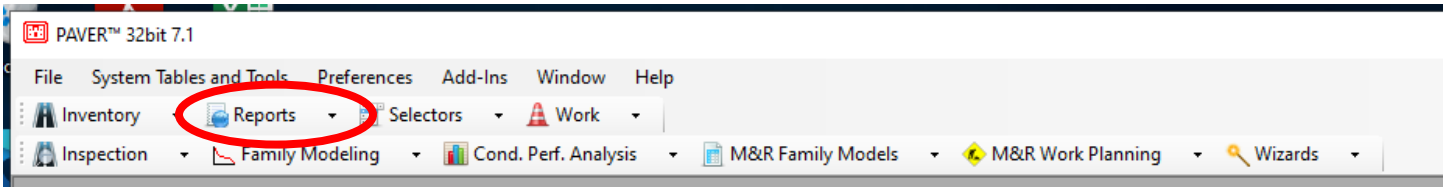
2.3.12 If BranchID was left blank in cell I2 copy and paste =VLOOKUP(C2,'Air UseDef'!C:E,2, FALSE) for the "Air Global Table" or =VLOOKUP(C2,'Rds&Prk UseDef'!C:E,2, FALSE) for the "Rds Global Table".
NOTE: If the data has any errors perform this step to make sure the correct BranchID is listed.

2.3.13 Repeat these steps for the remaining pavement network (Airfield or Roads & Parking).

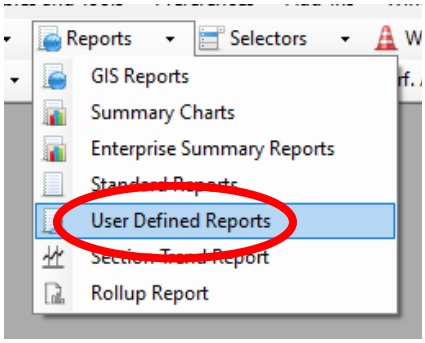
SAVE YOUR WORK!!

2.4 PMP User Defined (UseDef) Table Instructions

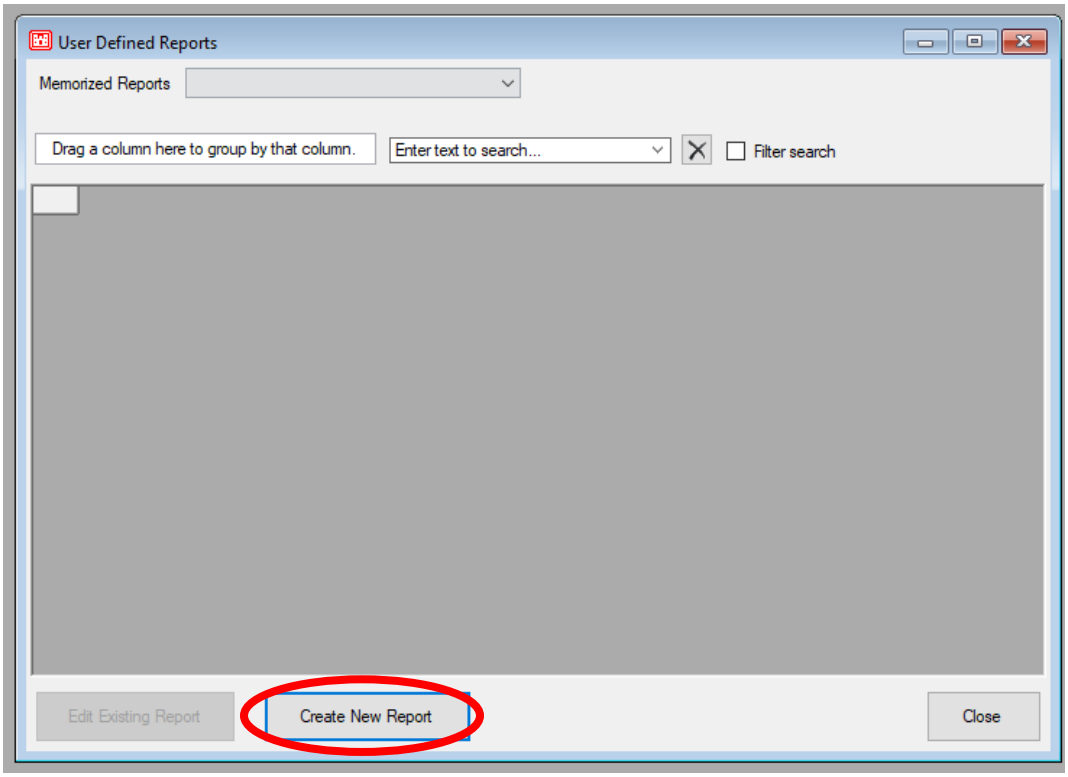
2.3.1 Open the pavement system's (AIR or RDS & PRK) .E70 database into PAVER and select "Reports" from the main menu. The .E70 database should have already been imported and PMP zones assigned per guidance in section 1.1 PMP Zone Definition. If not, Import and open database.



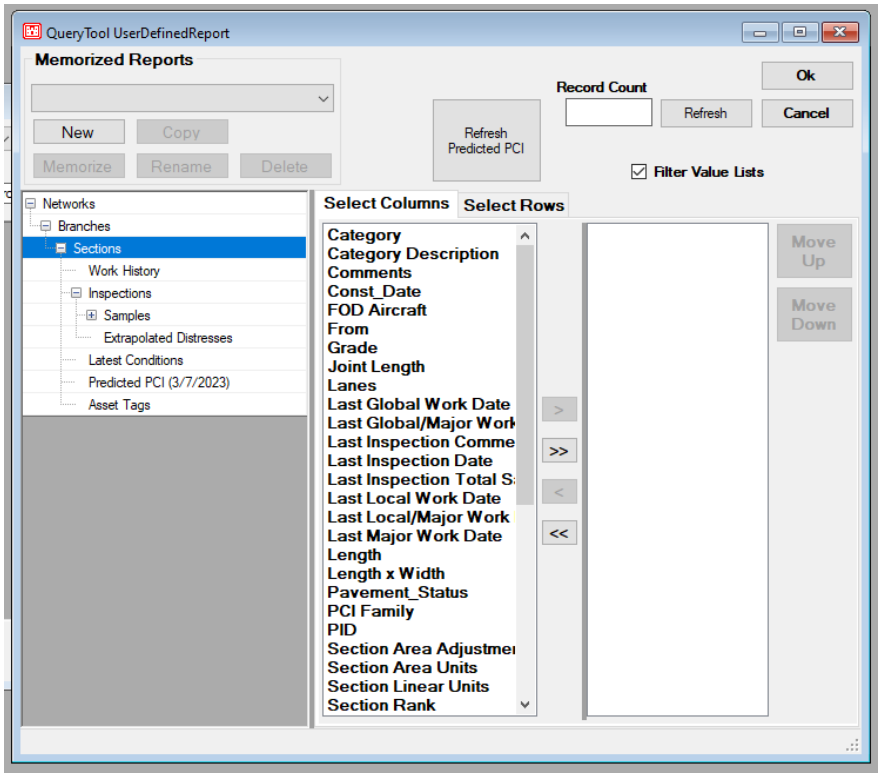
2.4.1 Use the "Reports" dropdown menu to select "User Defined Reports".



2.4.2 In the "User Defined Reports" window, select "Create New Report".

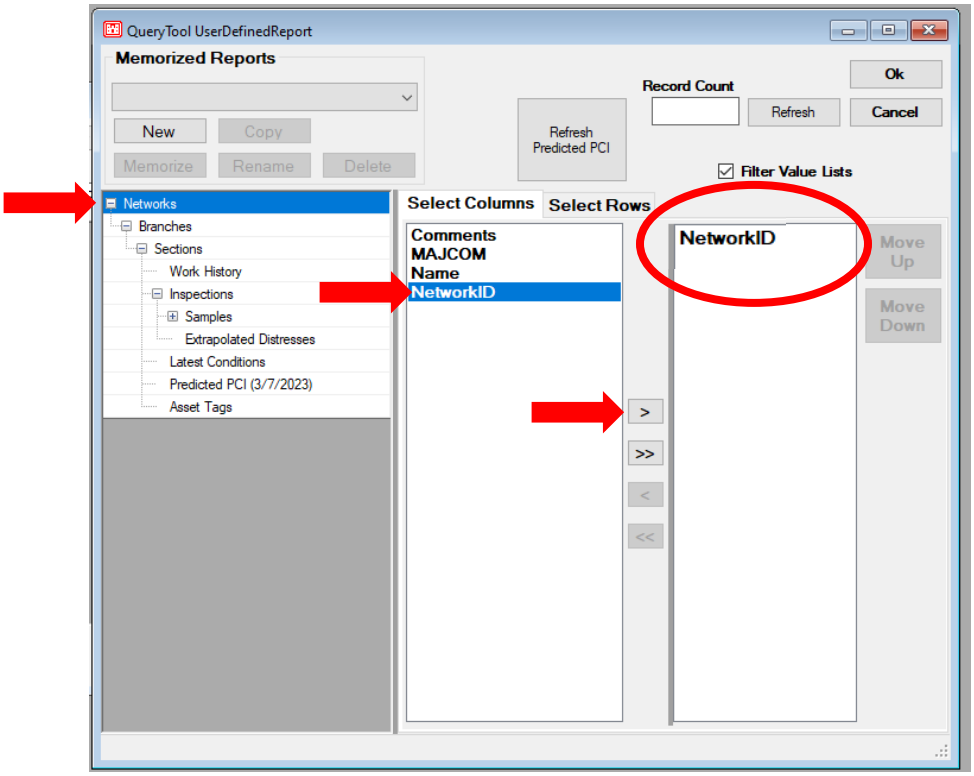


2.4.3 The “Query Tool” window will open. Here you will select the items for your report.

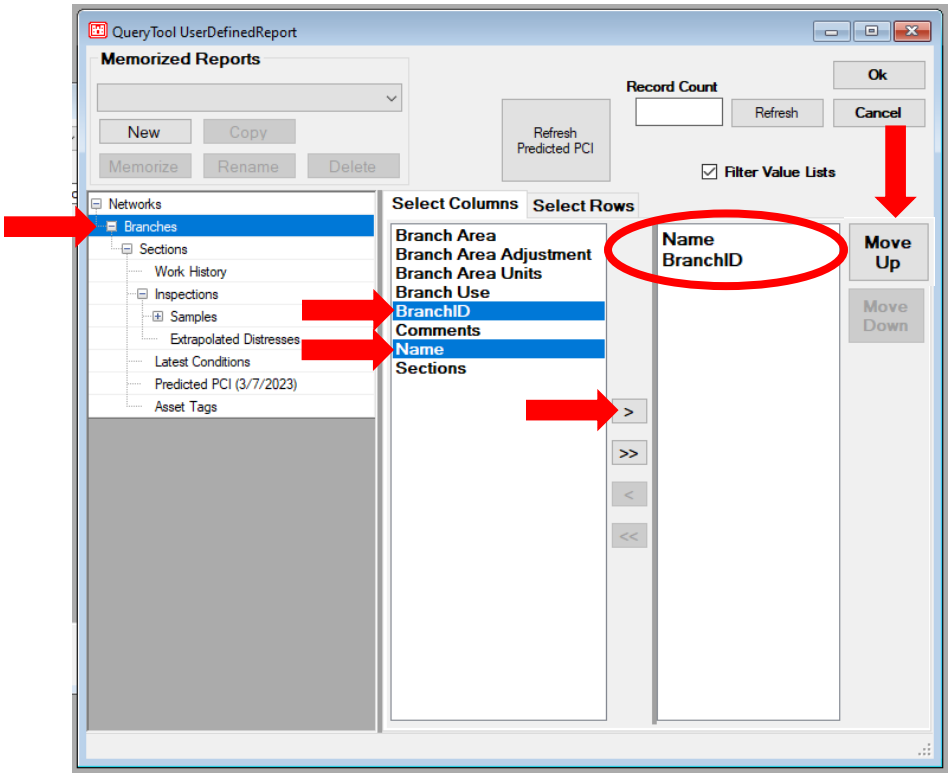


2.4.4 Select the following items ***in order***:

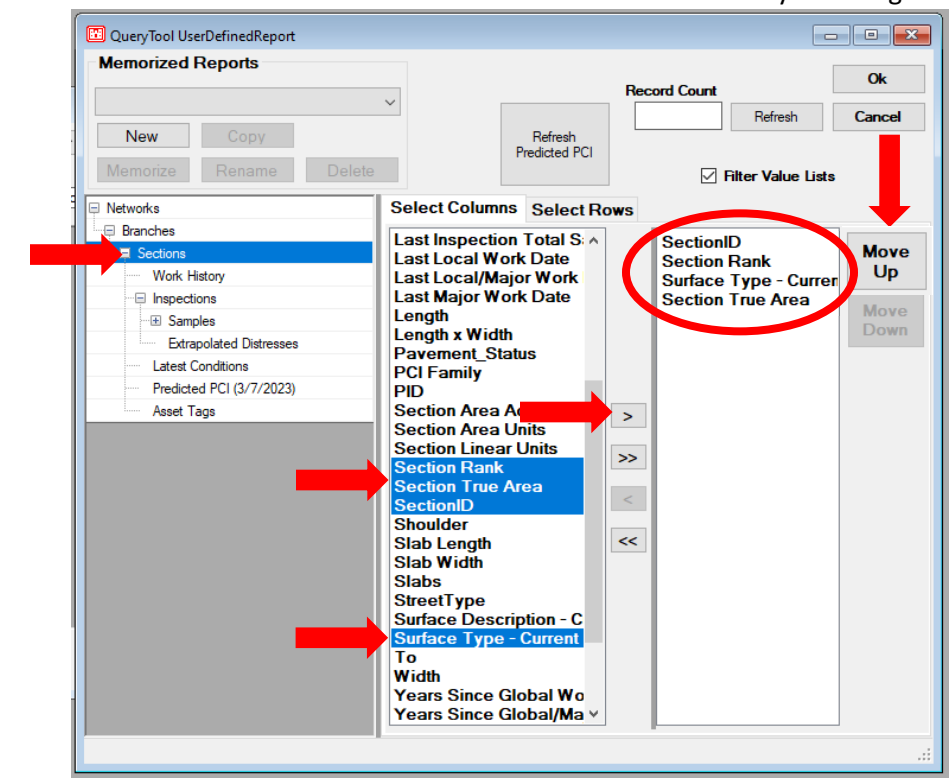
2.4.4.1 Select “Networks” in the LEFT box. Select “NetworkID” in the CENTER box and click the arrow to move it into the RIGHT box.



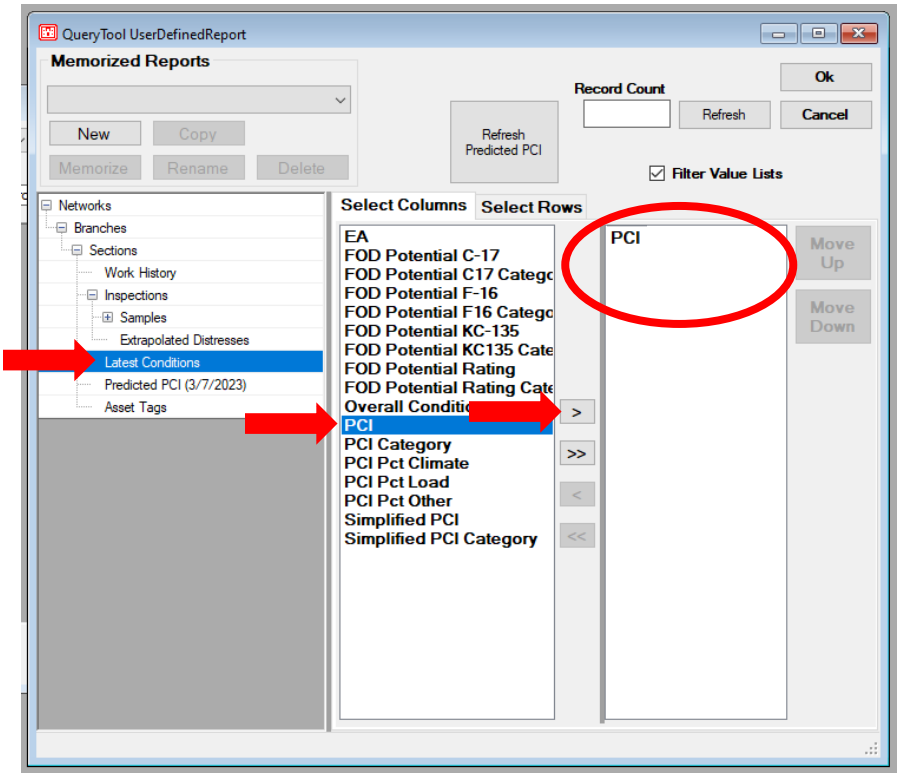
2.4.4.2 Select “Branches” in the LEFT box. Select “Name”, and “BranchID” and move it into the RIGHT box. Make sure it is in the order shown by selecting “Move Up”.



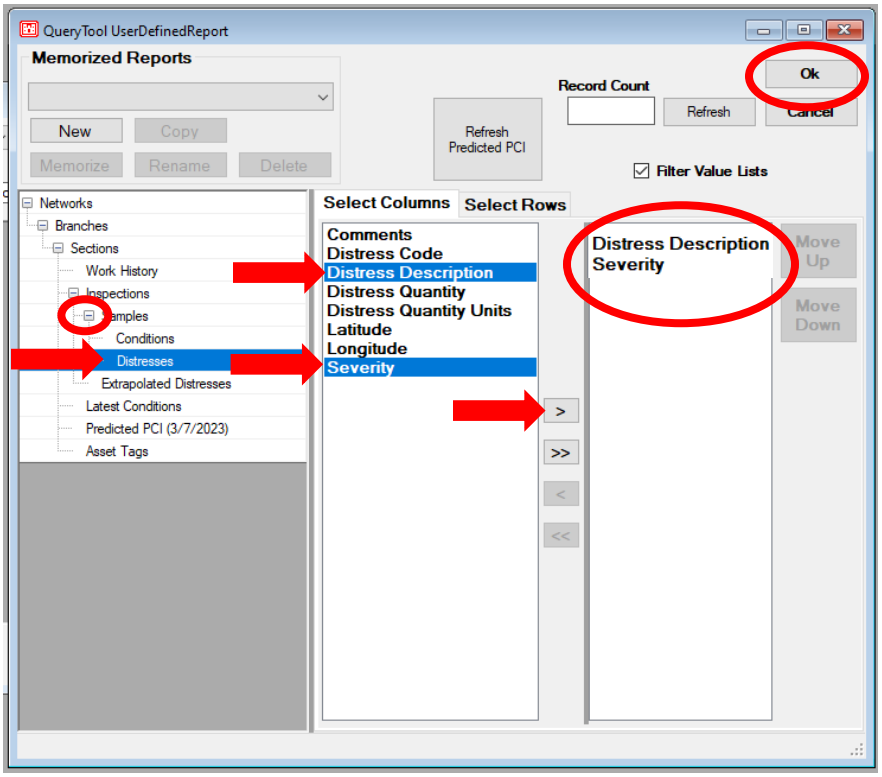
2.4.4.3 Select “Sections” in the LEFT box. Select “SectionID”, “Section Rank”, “Surface Type – Current”, “Section True Area” and move it into the RIGHT box. Make sure it is in the order shown by selecting “Move Up”.



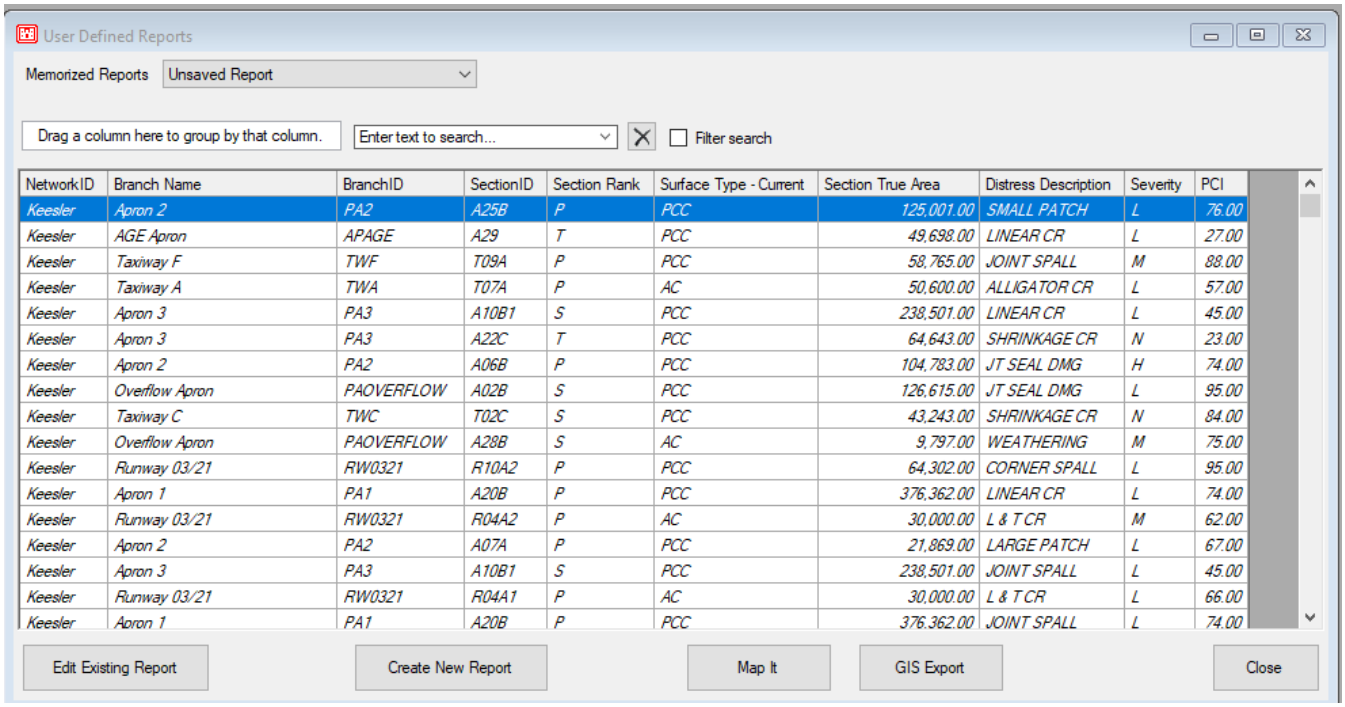
2.4.4.4 In the LEFT box, click the “Latest Conditions”. Select “PCI” from the CENTER box and move it into the RIGHT box.



2.4.4.5 In the LEFT box, click the “+” beside “Samples” and then select “Distresses”. Select “Distress Description” and “Severity” from CENTER box and move it into the RIGHT box. Now select “Ok” at the top-right of the box.

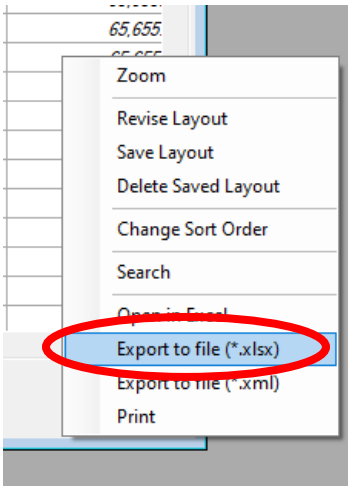


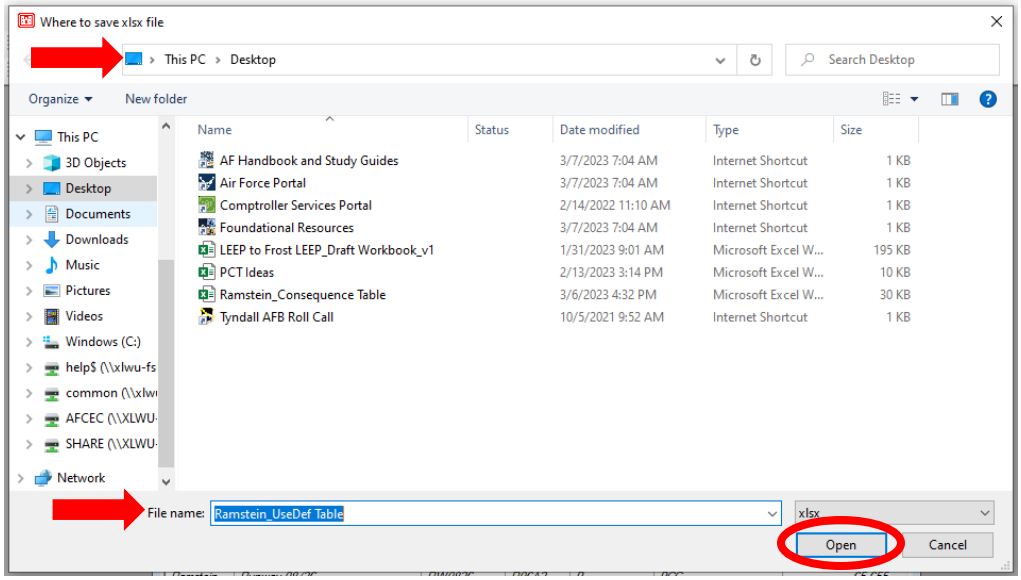
2.4.5 PAVER will build and display your report.



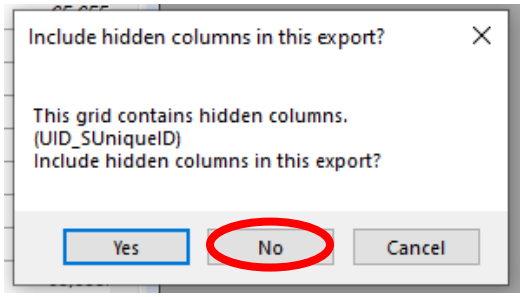
NetworkID	Branch Name	BranchID	SectionID	Section Rank	Surface Type - Current	Section True Area	Distress Description	Severity	PCI
Keesler	Apron 2	PA2	A25B	P	PCC	125,001.00	SMALL PATCH	L	76.00
Keesler	AGE Apron	APAGE	A29	T	PCC	49,698.00	LINEAR CR	L	27.00
Keesler	Taxiway F	TWF	T09A	P	PCC	58,765.00	JOINT SPALL	M	88.00
Keesler	Taxiway A	TWA	T07A	P	AC	50,600.00	ALLIGATOR CR	L	57.00
Keesler	Apron 3	PA3	A10B1	S	PCC	238,501.00	LINEAR CR	L	45.00
Keesler	Apron 3	PA3	A22C	T	PCC	64,643.00	SHRINKAGE CR	N	23.00
Keesler	Apron 2	PA2	A06B	P	PCC	104,783.00	JT SEAL DMG	H	74.00
Keesler	Overflow Apron	PAOVERFLOW	A02B	S	PCC	126,615.00	JT SEAL DMG	L	95.00
Keesler	Taxiway C	TWC	T02C	S	PCC	43,243.00	SHRINKAGE CR	N	84.00
Keesler	Overflow Apron	PAOVERFLOW	A28B	S	AC	9,797.00	WEATHERING	M	75.00
Keesler	Runway 03/21	RW0321	R10A2	P	PCC	64,302.00	CORNER SPALL	L	95.00
Keesler	Apron 1	PA1	A20B	P	PCC	376,362.00	LINEAR CR	L	74.00
Keesler	Runway 03/21	RW0321	R04A2	P	AC	30,000.00	L & T CR	M	62.00
Keesler	Apron 2	PA2	A07A	P	PCC	21,869.00	LARGE PATCH	L	67.00
Keesler	Apron 3	PA3	A10B1	S	PCC	238,501.00	JOINT SPALL	L	45.00
Keesler	Runway 03/21	RW0321	R04A1	P	AC	30,000.00	L & T CR	L	66.00
Keesler	Apron 1	PA1	A20B	P	PCC	376,362.00	JOINT SPALL	L	74.00

2.4.6 Right-click in the table and select “Export to file (*xlsx)”. Define location and file name to save file, if requested.

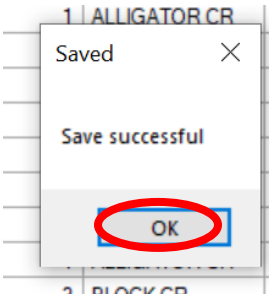




2.4.7 In the pop-up box “Include hidden…”, select no.



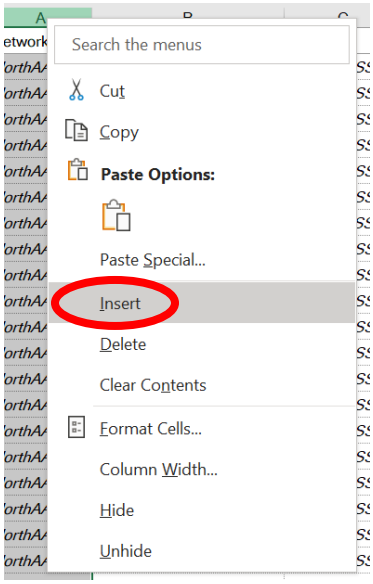
2.4.8 The window with “Save successful” will display when complete. Click OK and close all windows inside PAVER. **Note: If using an older version of PAVER this window will not appear.**



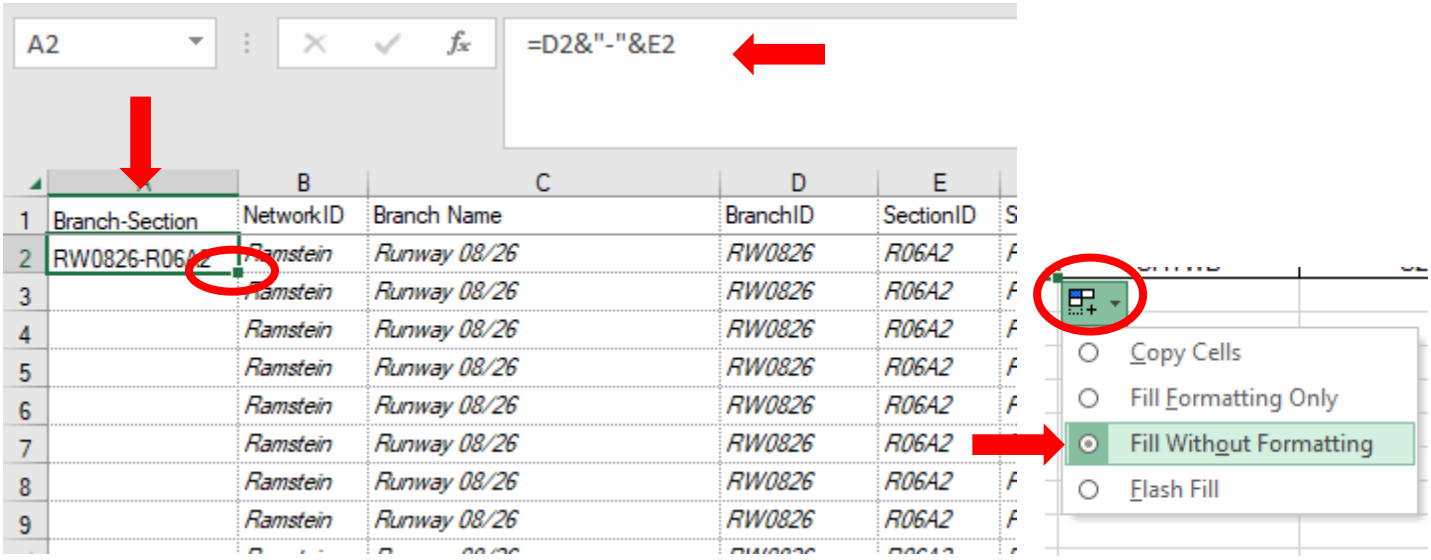
2.4.9 Open the newly saved Excel file; it will look like this.

	A	B	C	D	E	F	G	H	I	J
1	NetworkID	Branch Name	BranchID	SectionID	Section Rank	Surface Type - Current	Section True Area	Distress Description	Severity	PCI
2	*Ramstein*	*Runway 08/26*	*RW0826*	*R06A2*	*P*	*PCC*	*65,655.00*	*JT SEAL DMG*	*L*	*###*
3	*Ramstein*	*Runway 08/26*	*RW0826*	*R06A2*	*P*	*PCC*	*65,655.00*	*JT SEAL DMG*	*L*	*###*
4	*Ramstein*	*Runway 08/26*	*RW0826*	*R06A2*	*P*	*PCC*	*65,655.00*	*JT SEAL DMG*	*L*	*###*
5	*Ramstein*	*Runway 08/26*	*RW0826*	*R06A2*	*P*	*PCC*	*65,655.00*	*JT SEAL DMG*	*L*	*###*
6	*Ramstein*	*Runway 08/26*	*RW0826*	*R06A2*	*P*	*PCC*	*65,655.00*	*JT SEAL DMG*	*L*	*###*

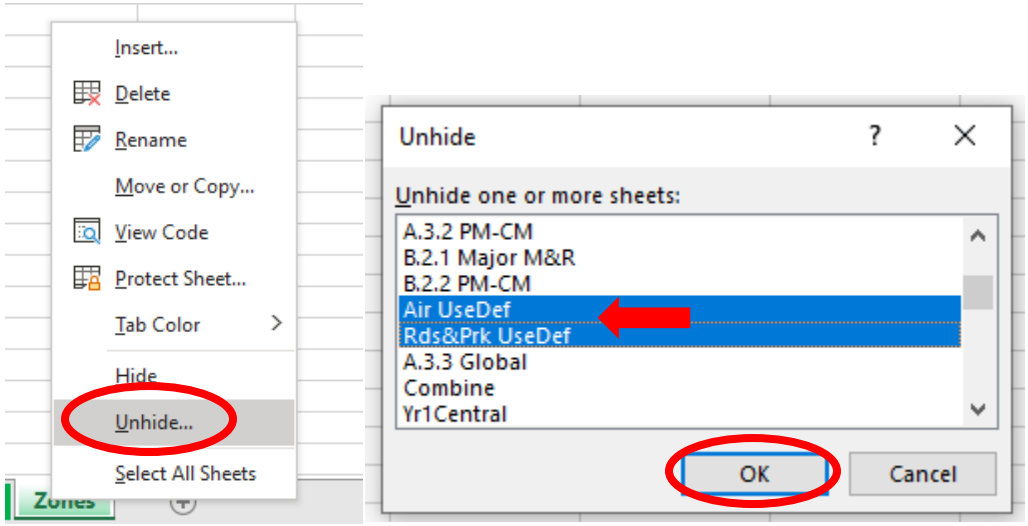
2.4.10 A new column will need to be inserted. Right-click on column A and then click “Insert”.



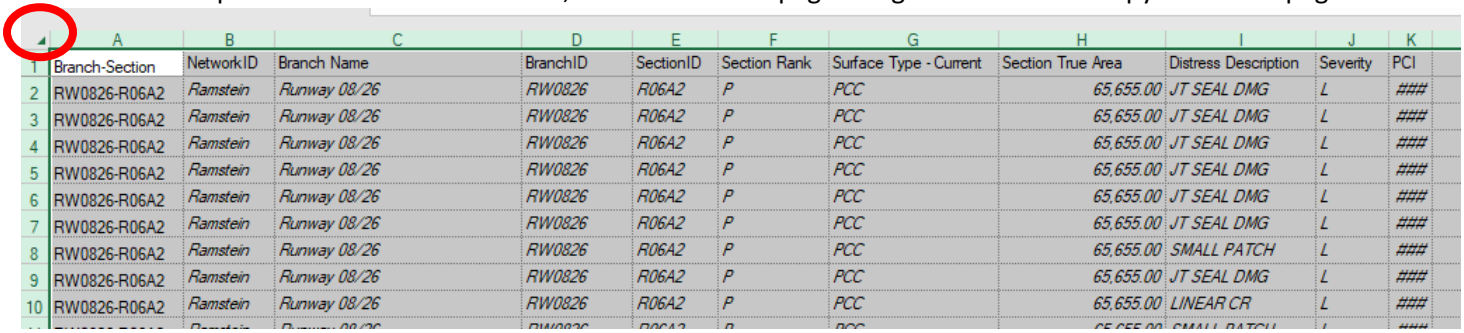
2.4.11 Label the inserted column “Branch-Section” and in cell A2, copy =D2&"-"&E2 and paste it directly in the cell. With cell A2 highlighted double click on the small box in the bottom right corner to auto fill the formula down to the last entry. Or drag it down to the last entry to do the same. Formatting does not matter but you can “Fill Without Formatting”.



2.4.12 Open the PMP Appendices Workbook and go to either the “Air Usedef” or the “Rds&Prk UseDef”. If it isn’t shown then go to the bottom of the table, right-click on any of the page tabs and select “Unhide”, then select “Air Usedef” or the “Rds&Prk UseDef”, then click OK.

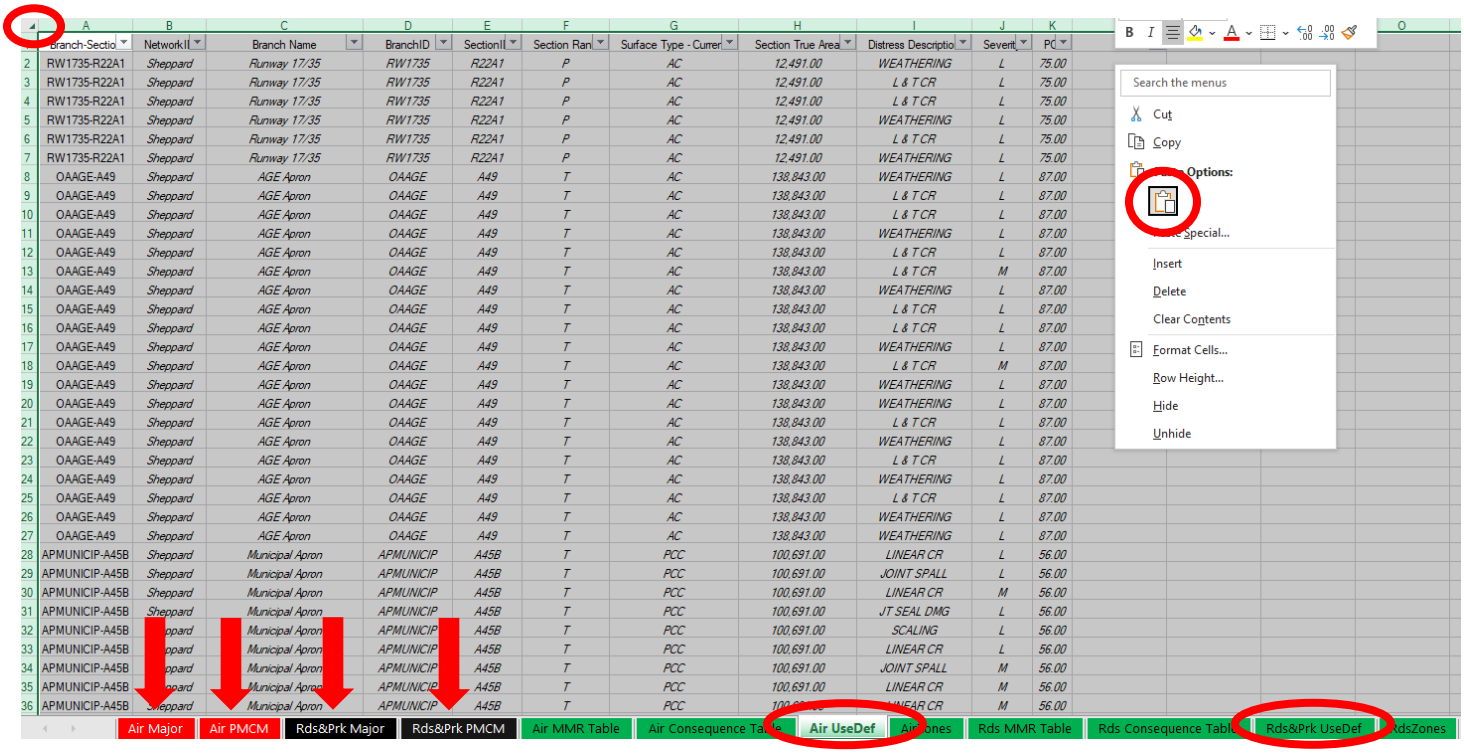


2.4.13 On the spreadsheet built from PAVER, select the entire page using the button and copy the entire page.



	A	B	C	D	E	F	G	H	I	J	K
1	Branch-Section	NetworkID	Branch Name	BranchID	SectionID	Section Rank	Surface Type - Current	Section True Area	Distress Description	Severity	PCI
2	RW0826-R06A2	Ramstein	Runway 08/26	RW0826	R06A2	P	PCC	65,655.00	JT SEAL DMG	L	###
3	RW0826-R06A2	Ramstein	Runway 08/26	RW0826	R06A2	P	PCC	65,655.00	JT SEAL DMG	L	###
4	RW0826-R06A2	Ramstein	Runway 08/26	RW0826	R06A2	P	PCC	65,655.00	JT SEAL DMG	L	###
5	RW0826-R06A2	Ramstein	Runway 08/26	RW0826	R06A2	P	PCC	65,655.00	JT SEAL DMG	L	###
6	RW0826-R06A2	Ramstein	Runway 08/26	RW0826	R06A2	P	PCC	65,655.00	JT SEAL DMG	L	###
7	RW0826-R06A2	Ramstein	Runway 08/26	RW0826	R06A2	P	PCC	65,655.00	JT SEAL DMG	L	###
8	RW0826-R06A2	Ramstein	Runway 08/26	RW0826	R06A2	P	PCC	65,655.00	SMALL PATCH	L	###
9	RW0826-R06A2	Ramstein	Runway 08/26	RW0826	R06A2	P	PCC	65,655.00	JT SEAL DMG	L	###
10	RW0826-R06A2	Ramstein	Runway 08/26	RW0826	R06A2	P	PCC	65,655.00	LINEAR CR	L	###

2.4.14 In the PMP Appendices Workbook select the "Air UseDef" or "Rds&Prk UseDef" tab. Select the entire page using the button, right click and paste the data from the table you just completed. With the data in the proper format, the data should automatically populate the "Air Major" and "Air PMCM", or the "Rds&Prk Major" and "Rds&Prk PMCM" tabs. These tabs will also pull data from the MMR Table and Consequence Table tabs, once they have been completed, so "NA" will appear until all green tabs have been accomplished.



2.4.15 Repeat these steps for the remaining pavement network (Airfield or Roads & Parking).

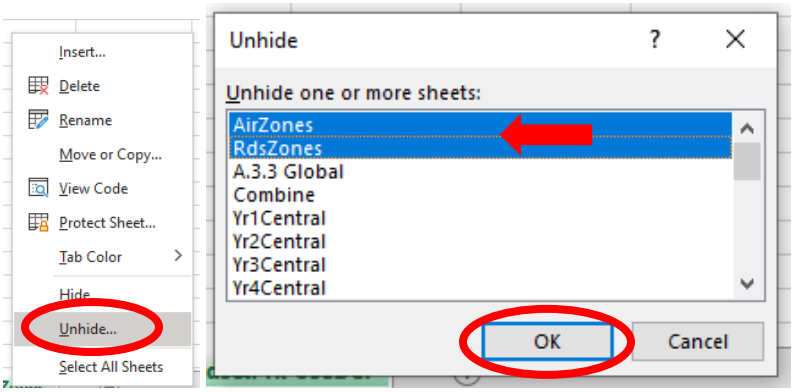
SAVE YOUR WORK!!

2.5 PMP Zone Table Instructions

Once PMP Zones have been defined in the PAVER .E70 file, a table must be created for two purposes: 1) It must be entered into the PMP Appendices Workbook to populate the Air and Roads & Parking requirements pages, 2) The information in this PMP Zone Table will be shared with the Geobase / GIS section to prepare the Maintenance Strategy Maps.

2.5.1 Open the table created from the PMP Zone Map Instructions (1.2). If not yet accomplished return to those instructions and complete the table.

2.5.2 Open the PMP Appendices Workbook and go to either the “AirZones” or the “RdsZones”. If it isn’t shown then go to the bottom of the table, right-click on any of the page tabs and select “Unhide”, then select “AirZones” and/or the “RdsZones”, then click OK.

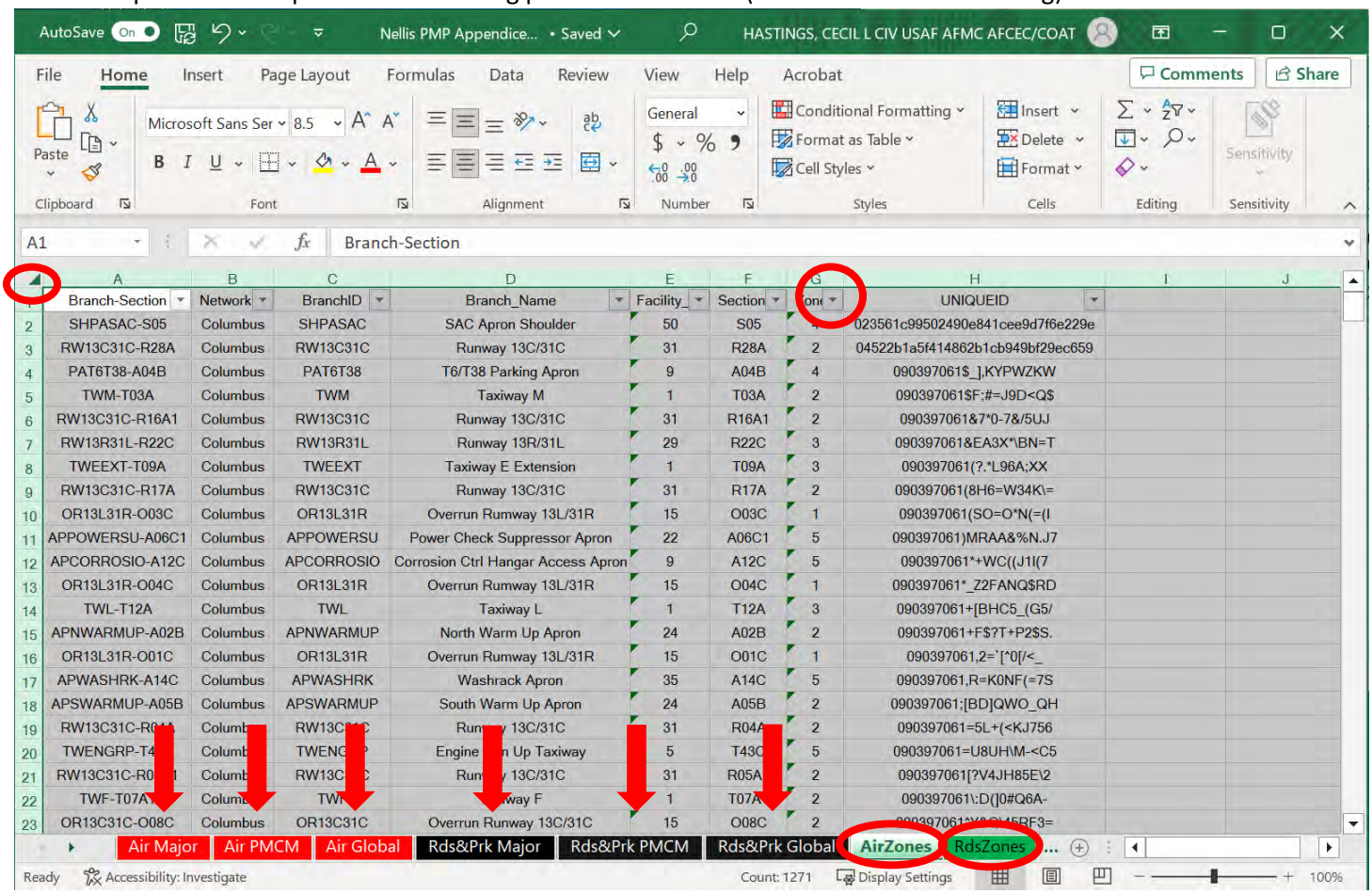


2.5.3 On the spreadsheet built from PAVER, select the entire page using the button and copy the entire page.

	A	B	C	D	E	F	G	H
1	Branch-Section	NetworkID	BranchID	Branch_Name	Facility_ID	SectionID	Zone1	UNIQUEID
2	OANWARM-A03B	Ramstein	OANWARM	NW Arm/Dearm Apron	5483	A03B	1	040898180&[[HNT)CP:S
3	AP7-A27B	Ramstein	AP7	Apron 7	5475	A27B	1	040898180&86^O-TFG,C
4	AP7-A37B	Ramstein	AP7	Apron 7	5475	A37B	1	040898180(J.JLYTH3;>
5	TWG-T35C2	Ramstein	TWG	Taxiway G	5410	T35C2	3	040898180*H5.T$7P=$A
6	TWA-T07A3	Ramstein	TWA	Taxiway A	5430	T07A3	3	040898180*I3,-JI)L\M
7	OAHASSW-A28C1	Ramstein	OAHASSW	Southwest HAS Apron	5558	A28C1	1	040898180,>$:2]MRD9B
8	AP4-A43B	Ramstein	AP4	Apron 4	5490	A43B		040898180,47A[81K#*&
9	AP7-A26B	Ramstein	AP7	Apron 7	5475	A26B	1	040898180,U%&\A6%ZD5
10	RW0927-R02C2	Ramstein	RW0927	Runway 09/27	10927	R02C2	2	040898180/<&Q?/K9TAO
11	AP3-A53B	Ramstein	AP3	Apron 3	5432	A53B	1	040898180/EA^:1?=07E

2.5.4 In the PMP Appendices Workbook select the "AirZones" or the "RdsZones" tab. Select the entire page using the button, right click and paste the data from the table you just completed. With the data in the proper format, the data should automatically populate the "Air Major", "Air PMCM", "Rds&Prk Major" and the "Rds&Prk PMCM" tabs. These tabs will also pull data from other tables, once they have been completed, so "NA" will appear until all green tabs have been accomplished.

2.5.5 Repeat these steps for the remaining pavement network (Airfield or Roads & Parking).



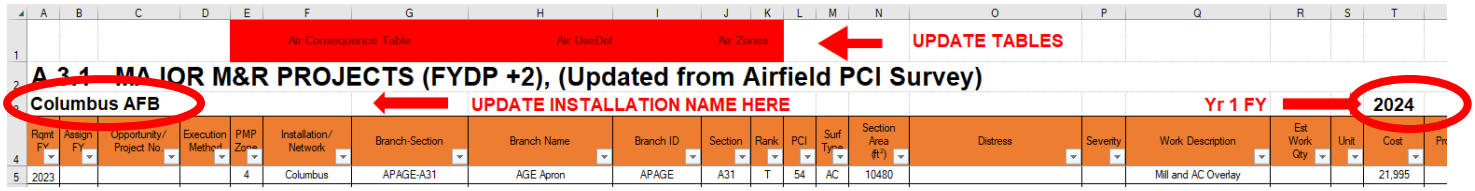
	A	B	C	D	E	F	G	H
1	Branch-Section	Network	BranchID	Branch_Name	Facility_	Section	Zone	UNIQUEID
2	SHPASAC-S05	Columbus	SHPASAC	SAC Apron Shoulder	50	S05	4	023561c99502490e841cee9d7f6e229e
3	RW13C31C-R28A	Columbus	RW13C31C	Runway 13C/31C	31	R28A	2	04522b1a5f414862b1cb949bf29ec659
4	PAT6T38-A04B	Columbus	PAT6T38	T6/T38 Parking Apron	9	A04B	4	090397061$_],KYPWZKW
5	TWM-T03A	Columbus	TWM	Taxiway M	1	T03A	2	090397061$F;#=J9D<Q$
6	RW13C31C-R16A1	Columbus	RW13C31C	Runway 13C/31C	31	R16A1	2	090397061&7*0-7&/5UJ
7	RW13R31L-R22C	Columbus	RW13R31L	Runway 13R/31L	29	R22C	3	090397061&EA3X*\BN=T
8	TWEEXT-T09A	Columbus	TWEEXT	Taxiway E Extension	1	T09A	3	090397061(?.*L96A;XX
9	RW13C31C-R17A	Columbus	RW13C31C	Runway 13C/31C	31	R17A	2	090397061(8H6=W34K\=
10	OR13L31R-O03C	Columbus	OR13L31R	Overrun Rumway 13L/31R	15	O03C	1	090397061(SO=O*N(=(I
11	APPOWERSU-A06C1	Columbus	APPOWERSU	Power Check Suppressor Apron	22	A06C1	5	090397061)MRAA&%N.J7
12	APCORROSIO-A12C	Columbus	APCORROSIO	Corrosion Ctrl Hangar Access Apron	9	A12C	5	090397061*+WC((J1l(7
13	OR13L31R-O04C	Columbus	OR13L31R	Overrun Rumway 13L/31R	15	O04C	1	090397061*_Z2FANQ$RD
14	TWL-T12A	Columbus	TWL	Taxiway L	1	T12A	3	090397061+[BHC5_(G5/
15	APNWARMUP-A02B	Columbus	APNWARMUP	North Warm Up Apron	24	A02B	2	090397061+F$?T+P2$S.
16	OR13L31R-O01C	Columbus	OR13L31R	Overrun Rumway 13L/31R	15	O01C	1	090397061,2=`[^0[/<_
17	APWASHRK-A14C	Columbus	APWASHRK	Washrack Apron	35	A14C	5	090397061,R=K0NF(=7S
18	APSWARMUP-A05B	Columbus	APSWARMUP	South Warm Up Apron	24	A05B	2	090397061;[BD]QWO_QH
19	RW13C31C-R04A	Columbus	RW13C31C	Runway 13C/31C	31	R04A	2	090397061=5L+(<KJ756
20	TWENGRP-T43C	Columbus	TWENGRP	Engine Run Up Taxiway	5	T43C	5	090397061=U8UH\M-<C5
21	RW13C31C-R05A	Columbus	RW13C31C	Runway 13C/31C	31	R05A	2	090397061[?V4JH85E\2
22	TWF-T07A	Columbus	TWF	Taxiway F	1	T07A	2	090397061\:D(]0#Q6A-
23	OR13C31C-O08C	Columbus	OR13C31C	Overrun Rumway 13C/31C	15	O08C	2	

SAVE YOUR WORK!!

3.1 PMP Requirement Tables Instructions

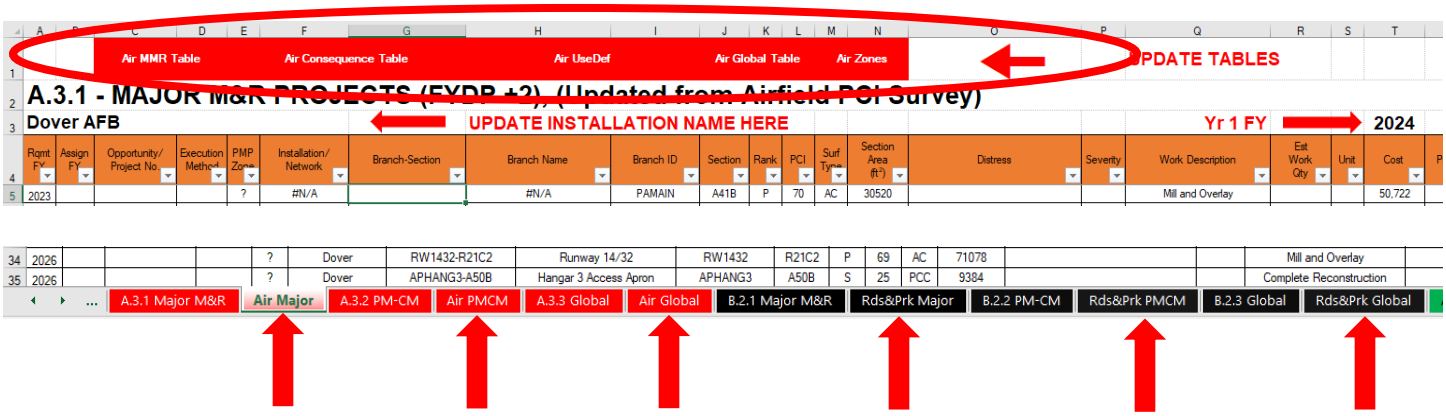
3.1.1 Once the instructions within Section 2.0 have been accomplished for the green tabs verify that there are no errors (#N/A) and that the correct data is displayed (PCI, Area, etc.) within the Air Major, Air PMCM, Air Global, Rds&Prk Major, Rds&Prk PMCM and Rds&Prk Global tabs. If there are errors, verify that all the columns in the green tabs match with the preceding instructions. The top row within Air Major and Rds&Prk Major will aid in identifying if there is a worksheet that has not been accomplished.

3.1.2 Once all data has been verified go to "Air Major" tab and enter in the installation name in the indicated cell (A3). This will automatically update all tabs. Also input the current AFCAMP FY cycle being worked on in cell T3. Refer to the AFCAMP Business Rules, if needed.



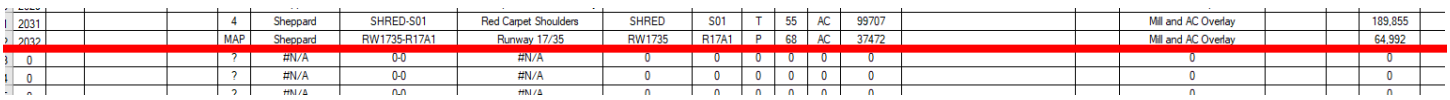
Rqmt FY	Assign FY	Opportunity/ Project No	Execution Method	PMP Zone	Installation/ Network	Branch-Section	Branch Name	Branch ID	Section	Rank	PCI	Surf Type	Section Area (ft²)	Distress	Severity	Work Description	Est Work Qty	Unit	Cost
2023				4	Columbus	APAGE-A31	AGE Apron	APAGE	A31	T	54	AC	10480			Mill and AC Overlay			21,995

3.1.3 After entering installation name in A3, if there is data in the first row then update the listed table. If the first row is empty then the data should all be from the same installation and you are good to go.
NOTE: *DO NOT* insert, delete, or cut any data as this will break the formulas and result in a formula error. Only copy and paste, or directly type in a cell to overwrite data.



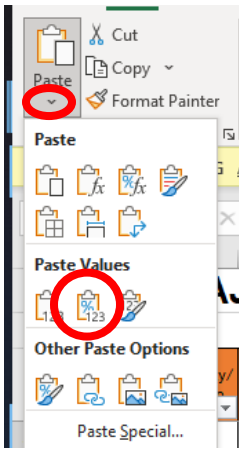
Rqmt FY	Assign FY	Opportunity/ Project No	Execution Method	PMP Zone	Installation/ Network	Branch-Section	Branch Name	Branch ID	Section	Rank	PCI	Surf Type	Section Area (ft²)	Distress	Severity	Work Description	Est Work Qty	Unit	Cost
2023				?	#N/A		#N/A	PAMAIN	A41B	P	70	AC	30520			Mill and Overlay			50,722
2026				?	Dover	RW1432-R21C2	Runway 14/32	RW1432	R21C2	P	69	AC	71078			Mill and Overlay			
2026				?	Dover	APHANG3-A50B	Hangar 3 Access Apron	APHANG3	A50B	S	25	PCC	9384			Complete Reconstruction			

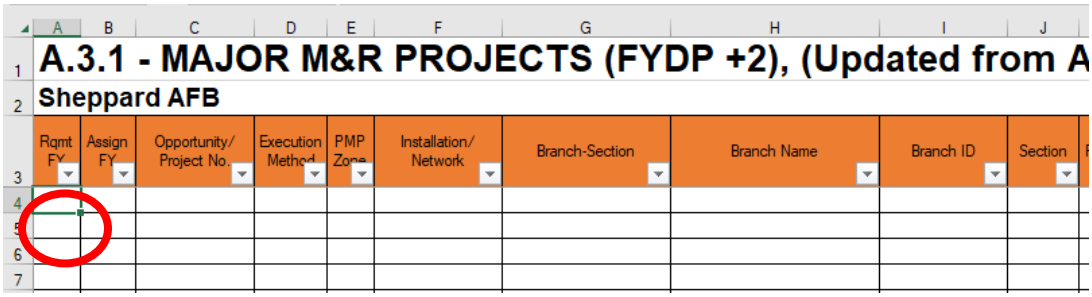
3.1.4 Highlight and copy all the data below the headers, up to the unpopulated rows (i.e., Row 5 – XX).



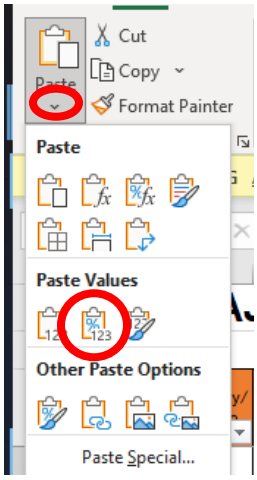
2031				4	Sheppard	SHRED-S01	Red Carpet Shoulders	SHRED	S01	T	55	AC	99707			Mill and AC Overlay			189,855
2032				MAP	Sheppard	RW1735-R17A1	Runway 17/35	RW1735	R17A1	P	68	AC	37472			Mill and AC Overlay			64,992
0				?	#N/A	0-0	#N/A	0	0	0	0	0	0			0			0
0				?	#N/A	0-0	#N/A	0	0	0	0	0	0			0			0

3.1.5 Go to the "A.3.1 Major M&R" tab and with the A4 cell selected go to the Paste dropdown arrow and select *Values & Number Formatting*. This will keep the dropdown list under the Execution Method and Work Description columns.





Repeat the copy and paste steps for "Air PMCM" to "A.3.2 PM-CM", "Air Global" to "A.3.3 Global", "Rds&Prk Major" to "B.2.1 Major M&R", "Rds&Prk PMCM" to "B.2.2 PM-CM", and "Rds&Prk Globabl" to "B.2.3 Global" ensuring to use the Paste *Values & Number Formatting*.



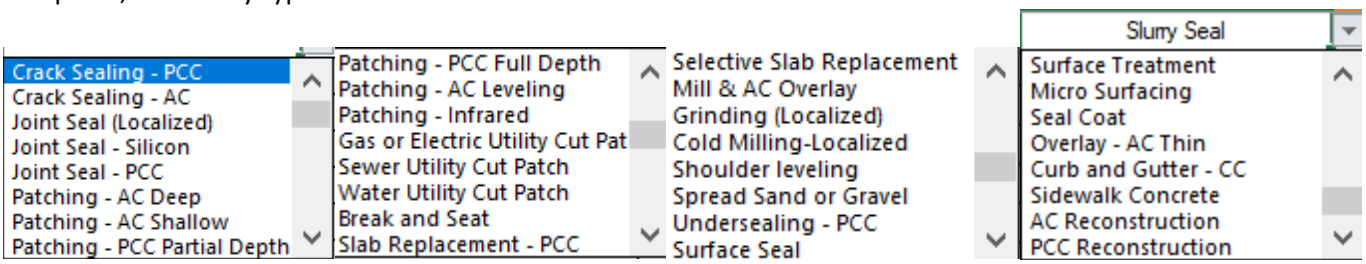
3.1.6 Using the "A.3.1 Major M&R", "A.3.2 PM-CM", "A.3.3 Global", "B.2.1 Major M&R", "B.2.2 PM-CM", and "B.2.3 Global" tabs enter in the *Assign FY, Opportunity/Project No.*, and *Execution Method* information for each requirement. All three of these columns need to be completed in order to properly rollup the data.

NOTE: For "A.3.1 Major M&R", and "B.2.1 Major M&R", the primary execution methods will be *Central* (AFCAMP) or *ExPlan* (dFSRM). For "A.3.2 PM-CM", "A.3.3 Global", "B.2.2 PM-CM", and "B.2.3 Global", the primary execution methods will be *In House* (CE Shops) or *Contract* (i.e., IDIQs, MACCs, sustainment only project). Use *Central* or *ExPlan* execution methods for PM-CM work that will also be captured under any identified Major M&R projects.

Rqmt FY	Assign FY	Opportunity/ Project No.	Execution Method	PMP Zone	Installation/ Network	Branch-Section	Branch Name
2025	2031	BAEY31XXXX	Central	3	Beale	APALERT-A13B2	Alert Apron
2024	2031	BAEY31XXXX	Central	3	Beale	APALERT-A14B3	Alert Apron
2023	2026	BAEY26XXXX	ExPlan	4	Beale	APRQ4-A15B	RQ-4 Parking Apron
2023	2029	BAEY29XXXX	Central	4	Beale	OAHGRAC-A12C	Hangar Access Aprons
2023	2031	BAEY31XXXX	Central	5	Beale	OAPOWCK-A03B	Power Check Apron

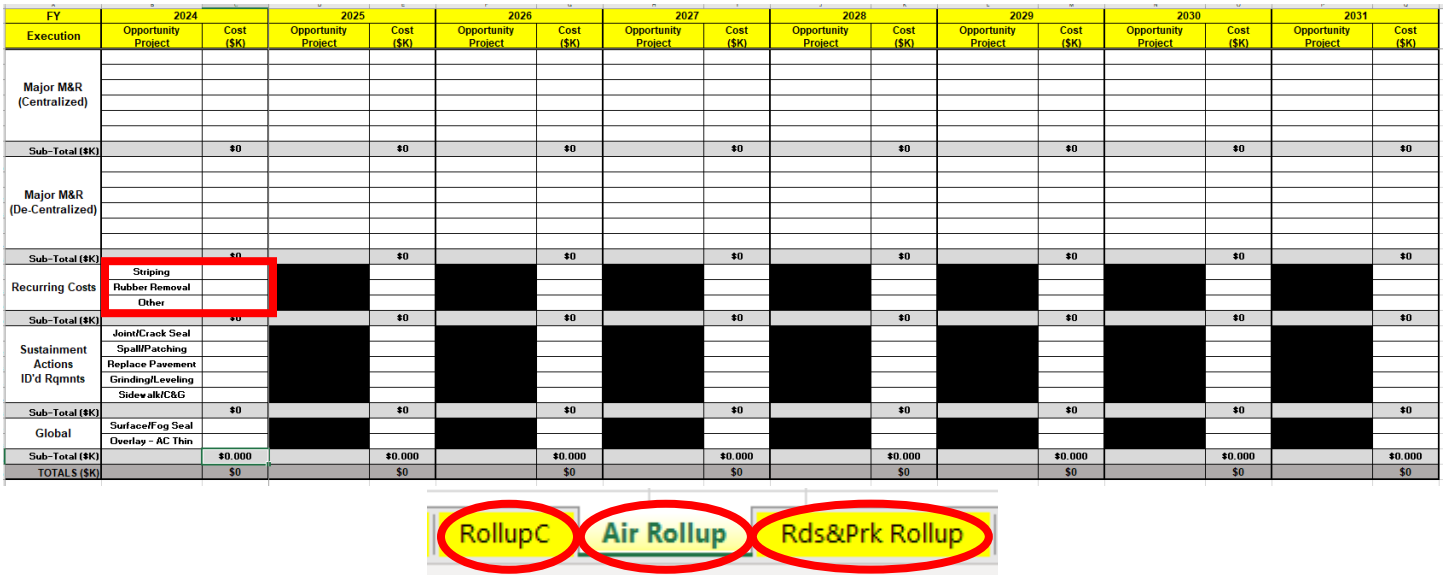
3.1.7 Base identified requirements can be added to the A.3.1 Major M&R", "A.3.2 PM-CM", "A.3.3 Global", "B.2.1 Major M&R", "B.2.2 PM-CM", and "B.2.3 Global" worksheets. Enter in the information for each requirement with as much information as possible. Be sure to use the standardized *Work Description* naming convention within the dropdown to ensure proper roll up.

NOTE: ***DO NOT*** insert, delete, or cut any data as this will break the formulas and result in a formula error. Only copy and paste, or directly type in a cell to overwrite data.



3.1.8 There are three different Rollup tabs that will allow you to see your data by Network (i.e., Airfield, Roads & Parking, or Combined). The rollup shows all assigned projects from Step 3.1.6 separated by FY, and execution method (i.e., Centralized, De-Centralized, Sustainment, and Global). **Input the reoccurring costs in the current year**. All other years will have a 3% escalation.

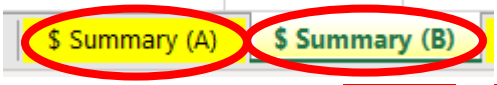
NOTE: The remaining portions of these worksheets are automated and should not be modified. If you do get a #NAME error, verify the version of Excel. There is a formula that does not work in versions prior to 2021. A work around is to open the file using MS Teams or One Drive SharePoint as these use Microsoft 365.



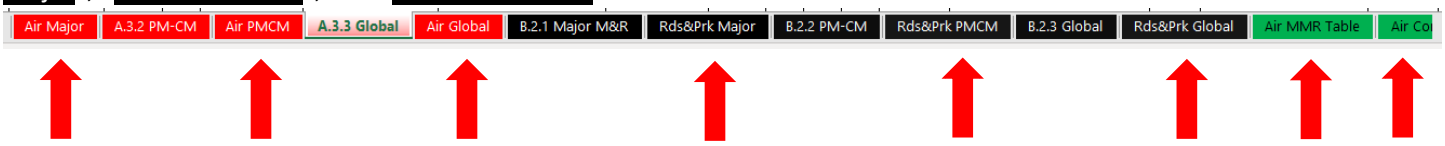
3.1.9 There are two Summary tabs that can be used to brief leadership on the yearly TNAP budget.

NOTE: These worksheets are automated and should not be modified. "$ Summary (C)" tab has more details on the breakout of Major M&R projects for Airfield vs. Roads and Parking.

FY Execution/Cost	2024 ($K)	2025 ($K)	2026 ($K)	2027 ($K)	2028 ($K)	2029 ($K)	2030 ($K)	2031 ($K)
Major M&R								
Centralized								
Airfield								
Roads/Parking								
De-Centralized								
Airfield								
Roads/Parking								
Sub-Total ($K)	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Recurring								
Striping/Rubber Removal								
Other								
Sub-Total ($K)	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Sustainment								
Joint/Crack Seal								
Spall/Patching								
Replace Pavement								
Grinding/Leveling								
Sidewalk/C&G								
Sub-Total ($K)	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Global								
Surface/Fog Seal								
Overlay - AC Thin								
Sub-Total ($K)	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
TOTALS ($K)	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**



3.1.10 At this point feel free to hide the green tabs as well as the "Air Major", "Air PMCM", "Air Global", "Rds&Prk Major", "Rds&Prk PMCM", and "Rds&Prk Globabl" tabs.



3.1.11 Your PMP Appendix is complete. Update the A.3.1 Major M&R", "A.3.2 PM-CM", "A.3.3 Global", "B.2.1 Major M&R", "B.2.2 PM-CM", and "B.2.3 Global" worksheets/requirements annually and send a copy to your AFCEC MAJCOM representative.

NOTE: Section 2 tables will only need to be re-accomplished when a new PCI/APE survey has been conducted. Otherwise, the only requirement is to re-work this section annually.

SAVE YOUR WORK!!