

		PK 0+000	PK 10+000	PK 20+000	PK 30+000	PK 35+000	PK 40+000	PK 45+000	PK 50+000
Photograph of road condition									
Photograph of road condition									
Right side	Terrain	1	1	1	1	1	1	1	1
	Affect house	2	2	2	2	2	3	3	3
	Land Use Type	2	1	5	1	1	8	1	8
	Shoulder Condition	1	1	1	1	1	1	1	1
	Shoulder Width (m)	1.4	1.5	1.4	1.6	1.5	1.4	1.5	1.5
	Shoulder Type	Laterite	SBST	SBST	SBST	SBST	SBST	SBST	SBST
	Road Condition	1	1	1	1	1	1	1	1
	Road Width (m)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	Lane Number (no)	1	1	1	1	1	1	1	1
	Road Pavement Type	DBST	DBST	DBST	DBST	DBST	DBST	DBST	DBST
	Lane Number (no)	1	1	1	1	1	1	1	1
	Road Width (m)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	Road Condition	1	1	1	1	1	1	1	1
	Shoulder Type	Laterite	SBST	SBST	SBST	SBST	SBST	SBST	SBST
Shoulder Width (m)	1.4	1.2	1.3	1.5	1.4	1.7	1.7	1.5	
Shoulder Condition	1	1	1	1	1	1	1	1	
Land Use Type	2	1	5	1	8	1	1	1	
Affect house	2	2	2	1	1	1	1	1	
Terrain	1	1	1	1	1	1	1	1	
Remark									
Bridge	Bridge Type								
	Span Number (no)								
Photograph of Bridge condition									

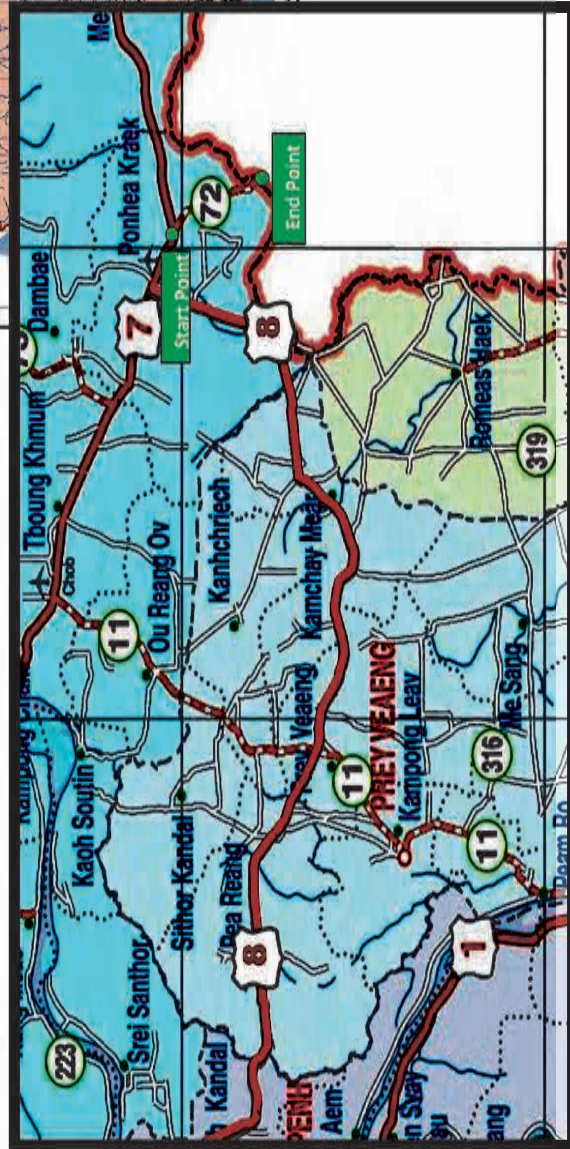
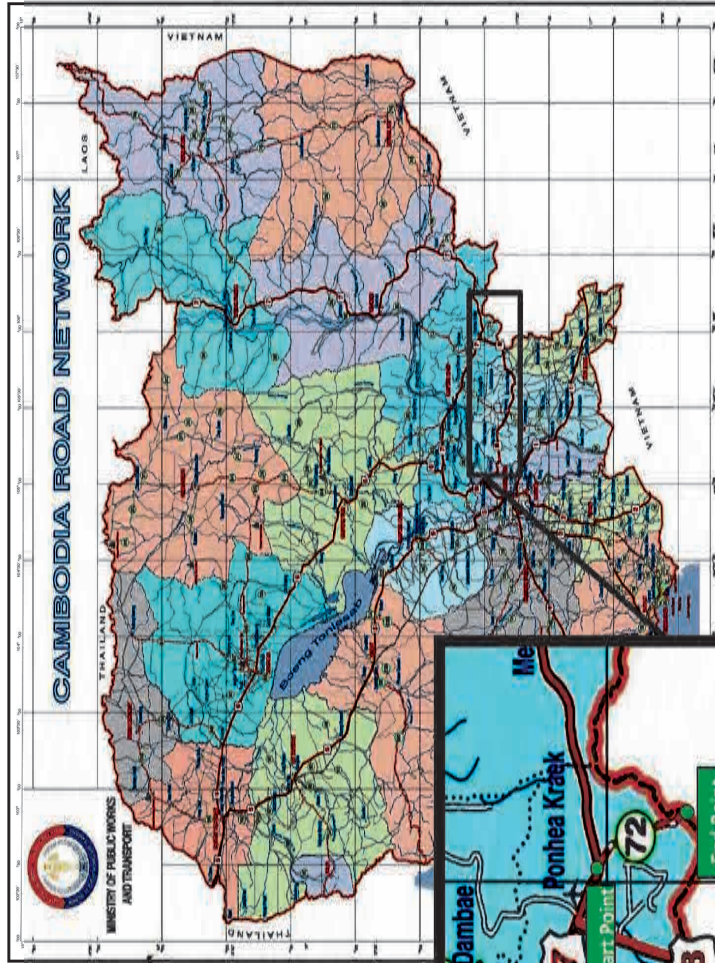
National Road No. 57 (from PK 55+000 to PK 104+000)		PK 55+000	PK 60+000	PK 65+000	PK 70+000	PK 75+000	PK 80+000	PK 85+000	PK 90+000	PK 95+000	PK 100+000	PK 104+000
Photograph of road condition												
Right side	Terrain	1	1	2	2	2	1	1	2	2	2	2
	Affect house	3	3	3	3	3	2	1	2	2	2	2
	Land Use Type	1	6	6	6	8	8	2	6	6	8	2
	Shoulder Condition	1	1	1	1	1	1	-	1	1	1	1
	Shoulder Width (m)	1.7	1.3	1.9	1.5	1.7	1.2	-	1.5	1.5	1.5	3.5
	Shoulder Type	DBST	DBST	SBST	DBST	SBST	SBST	-	SBST	SBST	SBST	DBST
	Road Condition	1	1	1	1	1	1	1	1	1	1	1
	Road Width (m)	4.0	4.0	4.0	4.0	4.0	4.0	3.2	4.0	4.0	3.7	4.0
	Lane Number (no)	1	1	1	1	1	1	2	1	1	1	1
	Road Pavement Type	DBST	DBST	DBST	DBST	DBST	DBST	DBST	DBST	DBST	DBST	DBST
	Lane Number (no)	1	1	1	1	1	1	2	1	1	1	1
	Road Width (m)	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	3.7	4.0
	Road Condition	1	1	1	1	1	1	1	1	1	1	1
Left side	Shoulder Type	DBST	DBST	SBST	DBST	SBST	SBST	-	SBST	SBST	SBST	DBST
	Shoulder Width (m)	1.4	1.2	1.2	1.5	1.2	1.6	-	1.4	1.6	1.4	2.7
	Shoulder Condition	1	1	1	1	1	1	-	1	1	1	1
Bridge	Land Use Type	1	8	6	6	6	8	1	1	1	1	2
	Affect house	1	2	2	2	2	2	1	1	1	3	2
	Terrain	1	1	1	2	2	2	1	2	2	2	2
Remark							Medium 1.2m					
Bridge Type												
Span Number (no)												
Photograph of Bridge condition												

Straight Line Diagram

National Road No. 72

From Station 00+000 to 13+000

(Ponhea Kraek to Tropang Thlor)



National Road No. 72 (from PK 00+000 to PK 13+000)

		PK 00+000	PK 05+000	PK 10+000	PK 13+000						
Photograph of road condition											
Right side	Terrain	1	1	1	1						
	Affect house	1	2	2	2						
	Land Use Type	1	8	5	2						
	Shoulder Condition	-	3	3	3						
	Shoulder Width (m)	-	0.4	0.7	1.0						
	Shoulder Type	-	SBST	SBST	SBST						
	Road Condition	2	2	2	2						
	Road Width (m)	5.0	4.2	3.7	3.6						
	Lane Number (no)	1	1	1	1						
	Road Pavement Type	DBST	DBST	DBST	DBST						
	Lane Number (no)	-	1	1	1						
	Road Width (m)	-	4.2	3.7	3.6						
	Road Condition	-	2	2	2						
	Shoulder Type	-	SBST	SBST	SBST						
Shoulder Width (m)	-	0.4	0.7	1.0							
Shoulder Condition	-	3	3	3							
Land Use Type	-	6	4	8							
Affect house	-	3	3	3							
Terrain	-	1	1	1							
Remark	One-way road										
Bridge Type						RCDG					
Span Number (no)						2					
Photograph of Bridge condition							PK 12+300				

Straight Line Diagram User Manual

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I. Road Map Clickable Requirement

- The summary of system requirements (latest) are as follows:
 - Operating System : Microsoft Windows
 - Minimum Microsoft Excel requirement : Microsoft Excel 2007

II. Running Road Map Clickable

- To run Road Map Clickable following steps below :
 - Double click on Microsoft Excel name “**roadmap.xlsm**”
 - Enable Macro for Microsoft Excel
 - Click on **Enable Content**

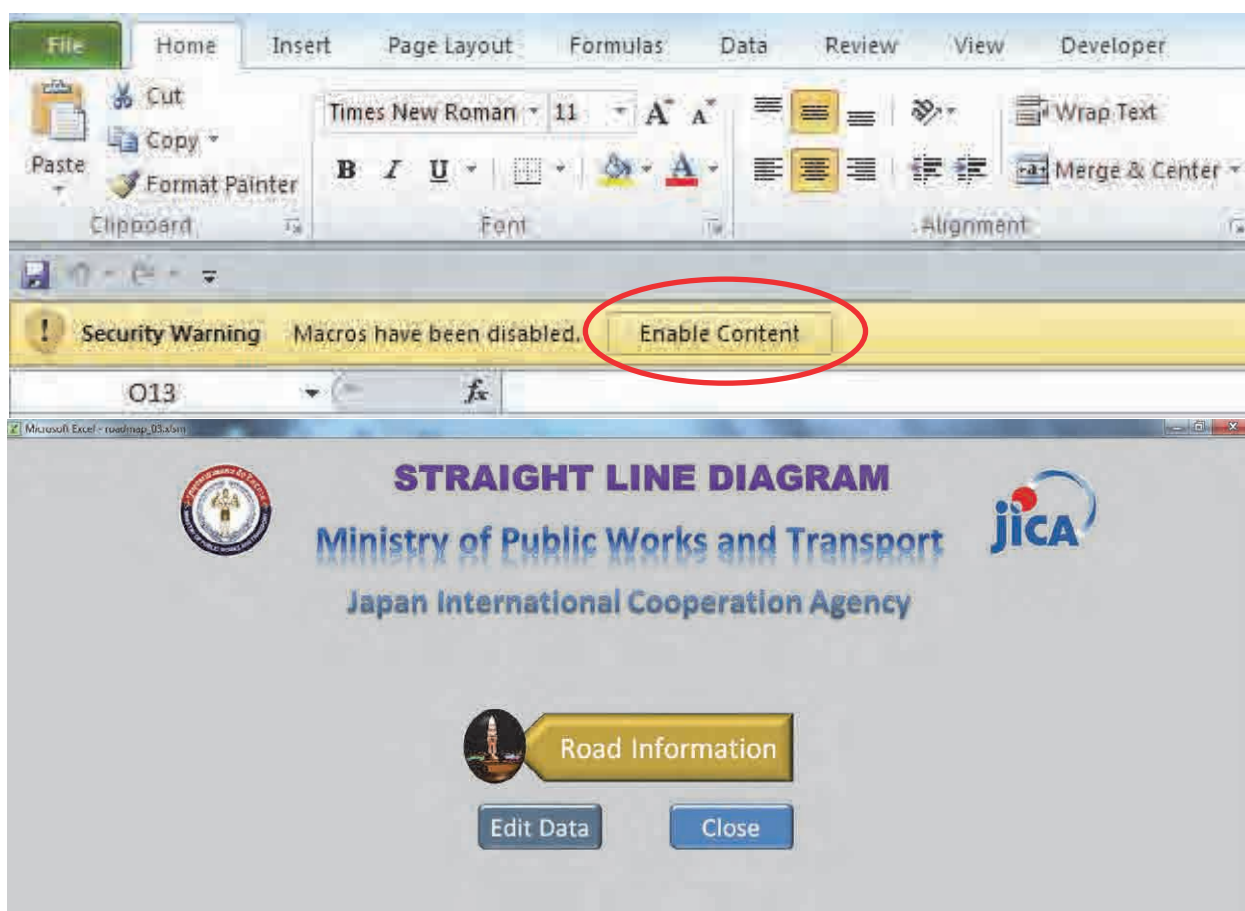


Figure 2-2 Main Menu

III. Using Road Map Clickable System



Figure 3-1 Main Menu

- To open Map clickable follow steps below:
 - Click on **road information** menu



Figure 3-2 Road Information Button

- Road map windows will display

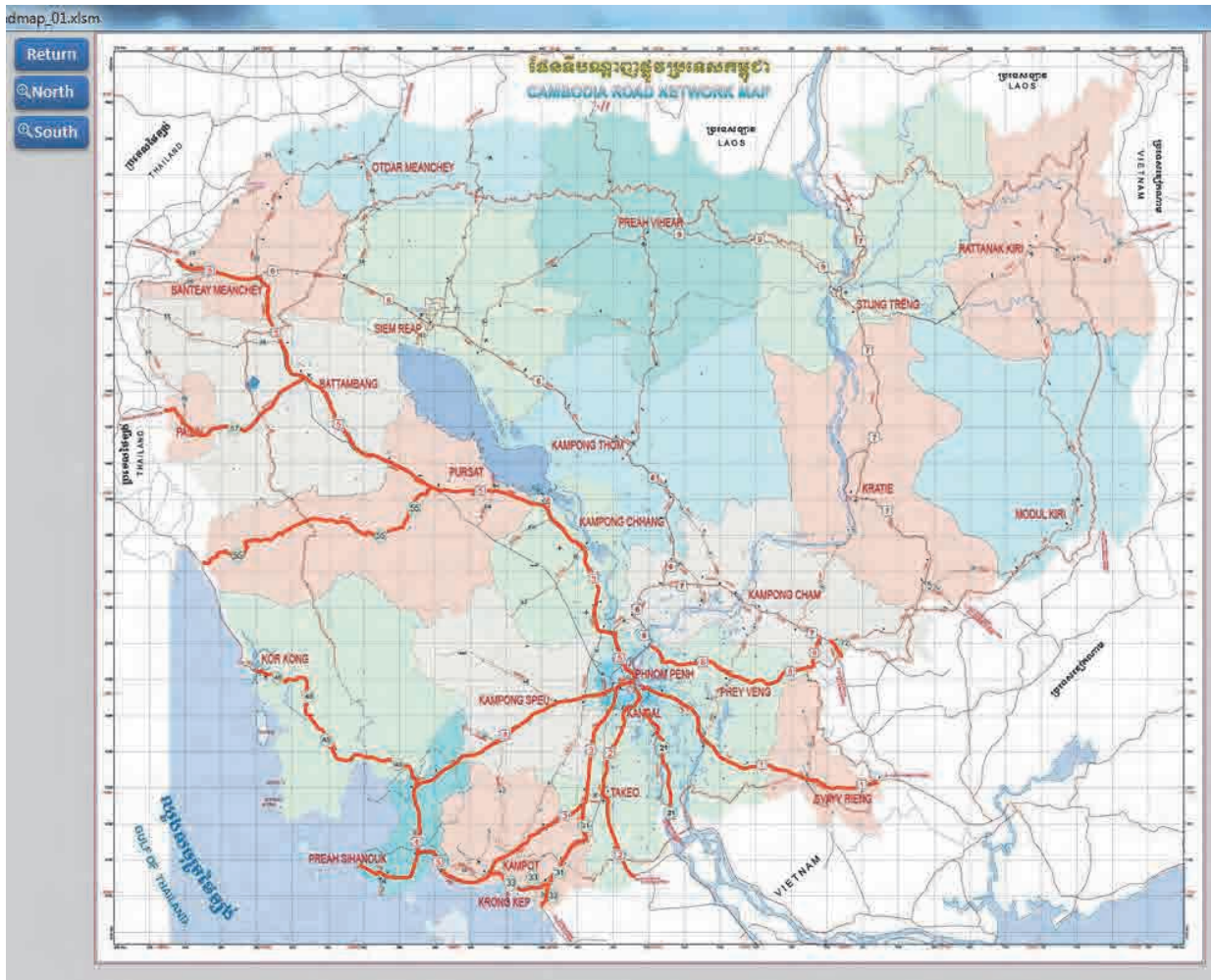


Figure 3-3 Road Map Window

- To display detail information of road follow steps below :
 - Click on road high light **Red** line color of road name
 - Dialog Box “Road Information” will display about road information

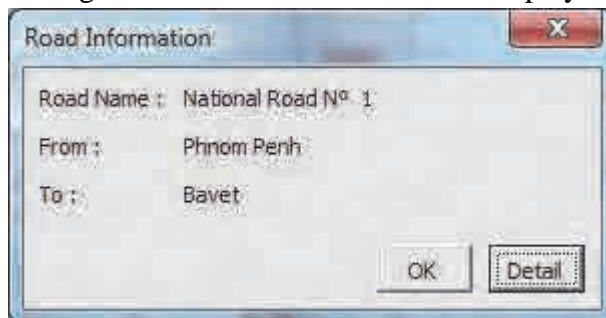



Figure 3-4 Road Information Dialog Box

- click on **Detail** button  to see more detail information of this road (Figure 3-3)
- Then cover of road map will display

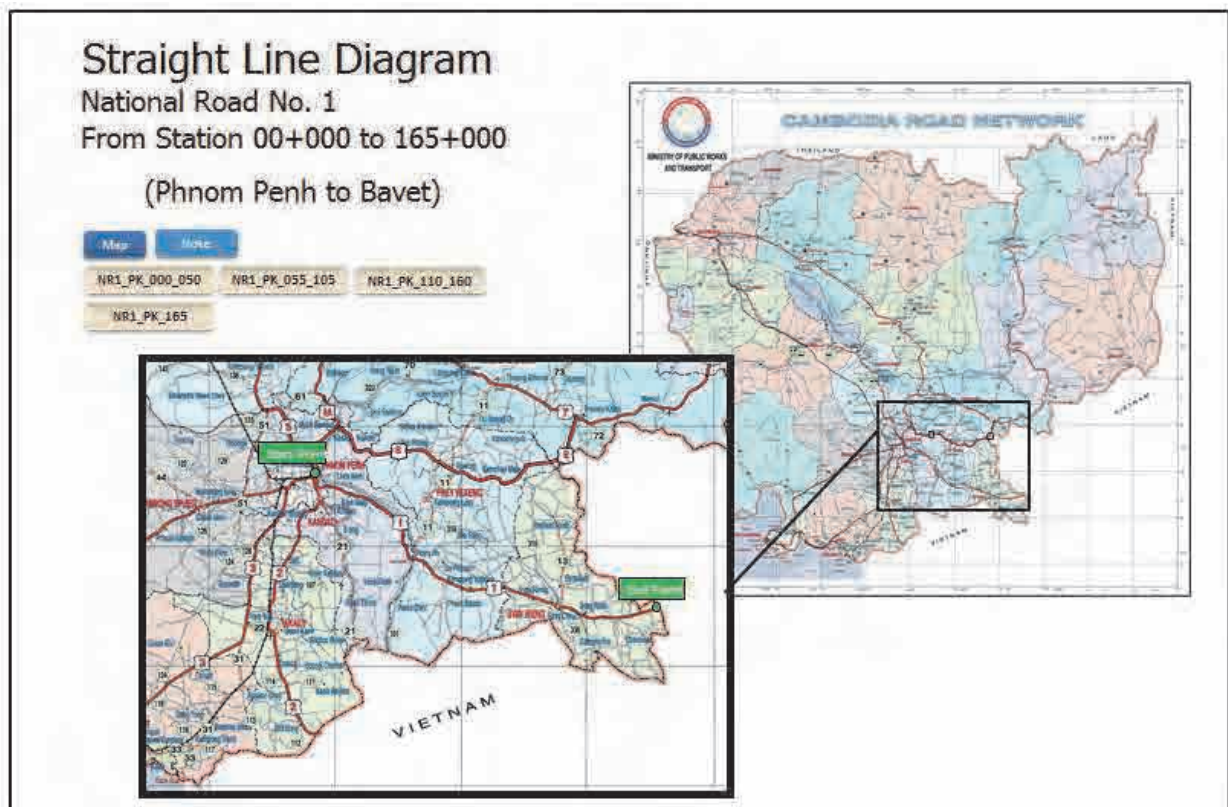


Figure 3-5 Cover of Road Information

- To see note of straight line diagram :
 - Click on **Note** button Note
 - Note for straight line diagram will display

Microsoft Excel - roadmap_03.xlsm

*Data Collection Survey on the Trunk Road Network Planning
for Strengthening of Connectivity through the Southern Economic Corridor*

Note for Straight Line Diagram

Right side means right facing country boundary and Phnom Penh behind.

Left side means left facing country boundary and Phnom Penh behind.

Items	Definition
a. Terrain	1. Flat Land 2. Rolling 3. Mountain 4. Swamp (Marshy Land)
b. Affected house	1. There are houses inside of electric pole 2. There are no houses inside of electric pole
c. Land use type	1. Residential 2. Commercial 3. Industrial 4. School/Hospital 5. Rice Field 6. Other agricultural land 7. Forest 8. Unused grass field 9. Others
d. Shoulder condition	1. Good 2. Fair 3. Bad 4. Very Bad
e. Shoulder width	1. If X3L & X3R is similar, $(X1 - X2) \times 1/2$ 2. If X3L & X3R is different, measure X3L & X3R; refer figure beside
f. Shoulder type	1. Laterite 2. DBST 3. SBST 4. Other
g. Pavement condition	1. Good 2. Fair 3. Bad 4. Very Bad Good means Travel speed is more than 60km/hr; Fair means Travel speed is 40 to 60km/hr Bad means Travel speed is 15 to 40km/hr Very bad means Travel speed is less than 15km/hr
h. Pavement width	1. If no center-line or divider, $X2 \times 1/2$ 2. If center-line or divider, measure X2L & X2R; refer figure beside
i. Pavement lane	Number of lane like one lane, two lanes, ... x lane + bike lane
j. Pavement type	1. Gravel 2. DBST 3. AC 4. SBST
k. Bridge type	Super-structure type Steel Reinforcement Concrete Slab (RCS) Reinforcement Concrete Deck Girder (RCDG) Prestension Hollow Slab (PCH) Post tension Deck Girder (PCDG)
l. Span number	Number of span of the bridge

Road Section

RCS (RC Slab)

RCDG (RC Deck Girder)

PCH (PC Hollow Slab)

PCDG (PC Deck Girder)

Bridge Type

Figure 3-6 Note for Straight Line Diagram

- To see detail information of road follow steps below :
 - Click on part name of road button **NR1_PK_000_050**
 - Road map detail information window will display

		PK 00+000	PK 05+000	PK 10+000	PK 15+000	PK 20+000	PK 25+000	PK 30+000	PK 35+000	PK 40+000	PK 45+000	PK 50+000
Right side	Terrain	1	1	1	1	1	1	1	1	1	1	1
	Affect house	2	2	1	1	1	1	1	1	1	2	2
	Land Use Type	2	2	2	1	1	1	1	9	1	1	1
	Shoulder Condition	1	1	3	1	1	1	2	2	2	2	2
	Shoulder Width (m)	2.3	2.3	2.3	2.6	2.5	2.5	0.5	0.5	0.5	0.4	0.3
	Shoulder Type	Other	Other	Other	DBST	DBST	DBST	Other	Other	Other	Other	Other
	Road Condition	1	1	3	1	1	1	1	1	1	1	1
	Road Width (m)	6.3	6.3	3.5	6.0	6.1	6.0	6.5	6.5	6.5	6.6	6.6
	Lane Number (no)	2+bike	2+bike	1	1+bike	1+bike	1+bike	1+bike	1+bike	1+bike	1+bike	1+bike
	Road Pavement Type	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC
Left side	Lane Number (no)	2+bike	2+bike	1	1+bike	1+bike	1+bike	1+bike	1+bike	1+bike	1+bike	1+bike
	Road Width (m)	6.3	6.3	3.5	6.0	6.1	6.0	6.5	6.5	6.5	6.6	6.6
	Road Condition	1	1	3	1	1	1	1	1	1	1	1
	Shoulder Type	Other	Other	Other	DBST	DBST	DBST	Other	Other	Other	Other	Other
	Shoulder Width (m)	2.3	2.3	2.3	2.6	4.7	4.8	0.5	0.5	0.5	0.4	0.3
	Shoulder Condition	1	1	3	1	1	1	2	2	2	2	2
	Land Use Type	2	2	2	1	1	1	1	8	8	1	1
	Affect house	2	2	1	1	1	1	1	3	3	2	2
	Terrain	1	1	1	1	1	1	1	1	1	1	1
	Remark											
Bridge	Bridge Type		PC BOX					PCDG			PCDG	
	Span Number (no)							3			4	
Photograph of Bridge condition												
		Montwong Bridge						PK 47+800			PK 48+300	

Figure 3-7 Road Inventory Sheet

- Left menu in road map detail information :

	Next : Move to next road part name of road
	Before : Move to previous part name of road
	Edit : edit data of current sheet
	Cover : go to cover window of this road (see in Figure 3-5)
	Map : go to map window see (see in Figure 3-3)
	Note : go to Note for straight line diagram(see in Figure 3-6)

IV. Updating Data Of Road Map

➤ To update data of road map follow to steps below:

- Click on Edit Data menu  in Main menu



Figure 4-1 Main Menu

- Then all sheets of road map in system will display in editable permission

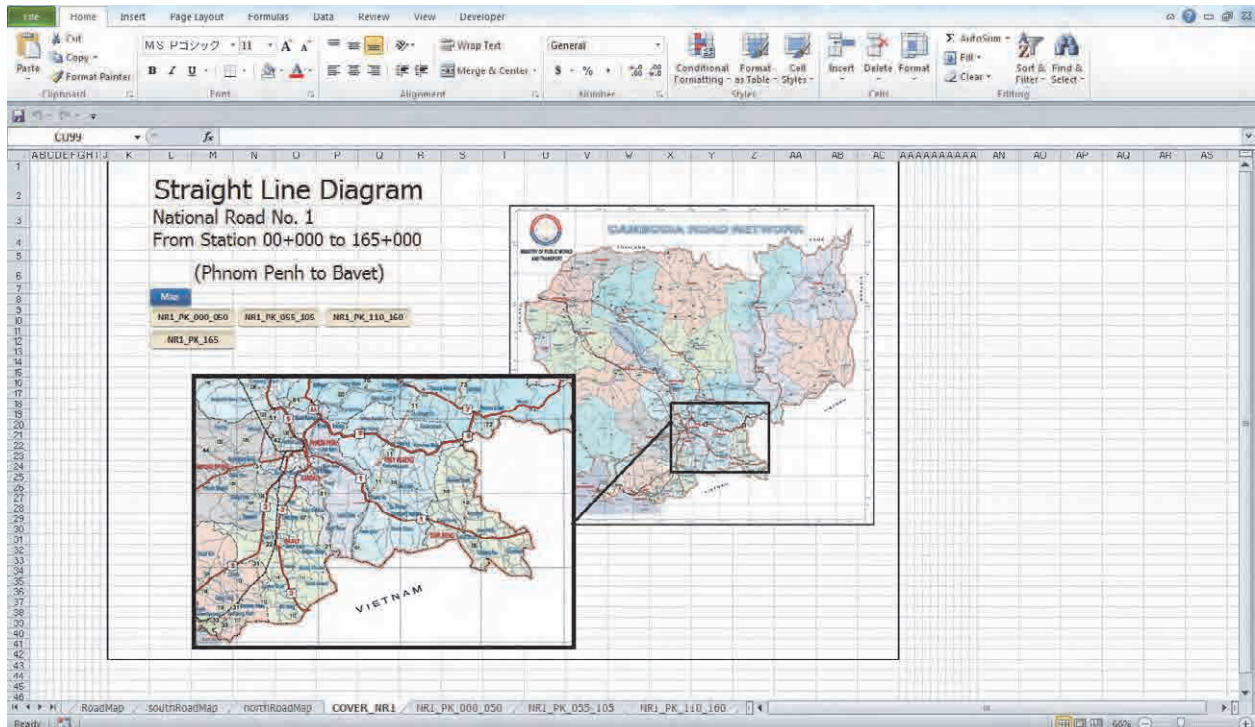


Figure 4-2 Road Inventory Sheet for Editing

- To edit/delete data of road map follow to steps below:
 - Click on sheet name of road name at bottom that want to edit

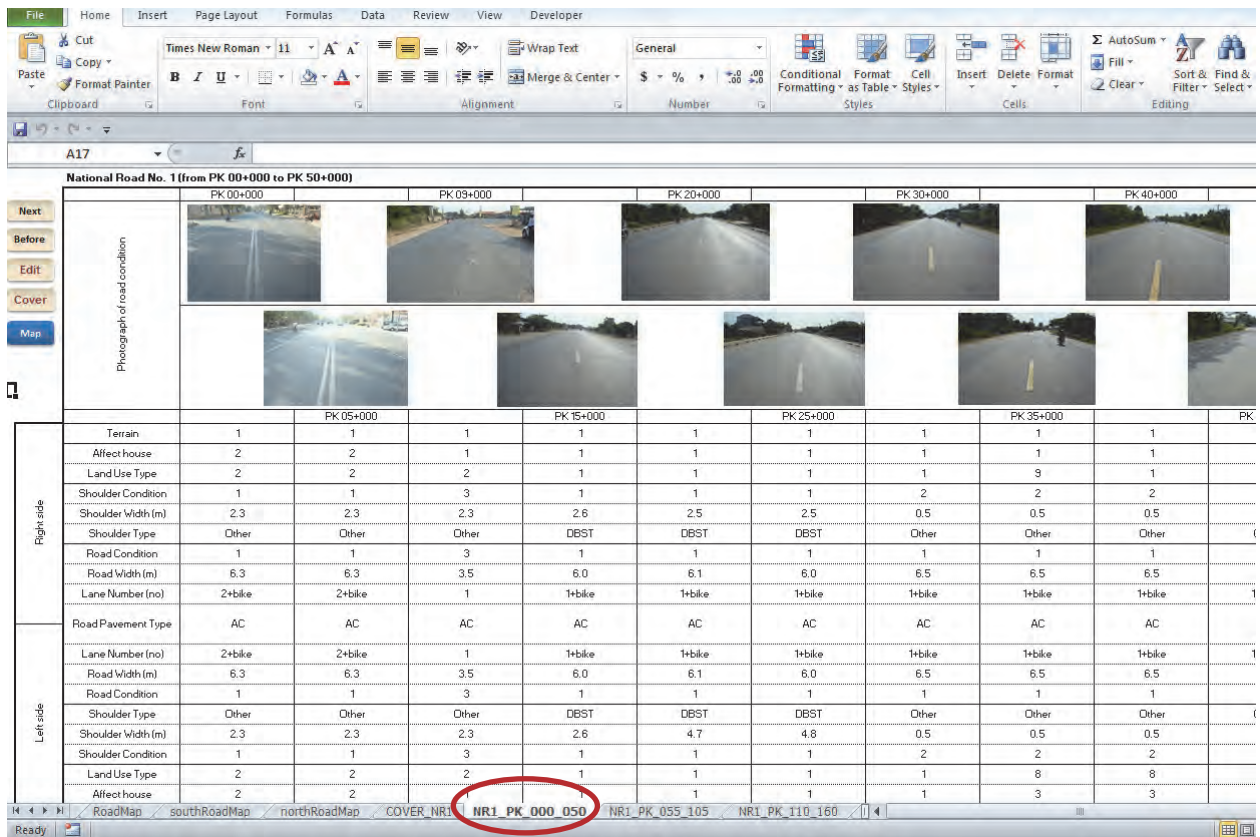


Figure 4-3 Edit Road Inventory Data

- Then edit data in cell that you want
- Click on **Save Icon** Microsoft Excel on top menu to save change or click **File > Save**

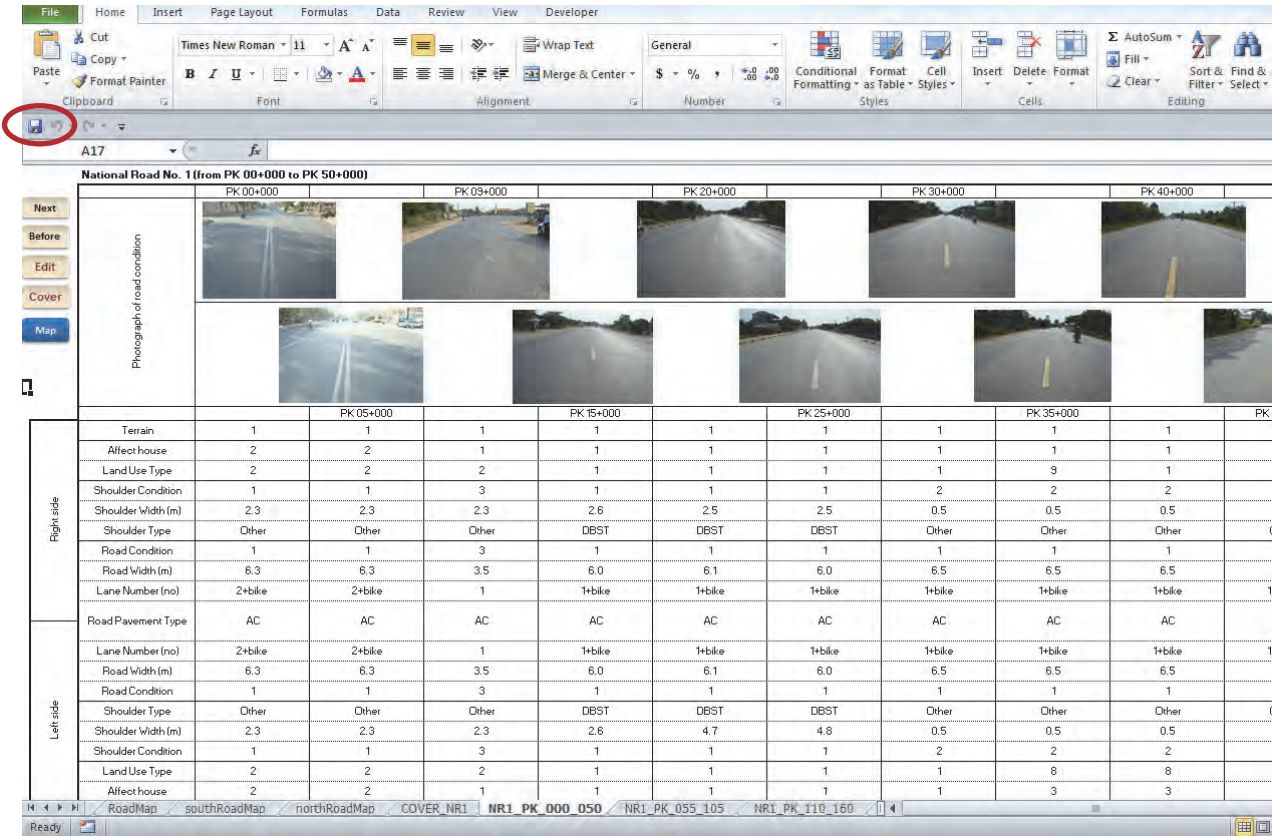


Figure 4-4 Save and Change of Road Inventory Data

- To exit program follow steps below:
 - Click on Close menu Close in Main menu to close
 - Confirm to save change before close

