ROADWAY CROSS SECTION
DOTD Form 03-22-0720

MATT MENU SELECTION - 51

DOTD 03-22-0720
Rev. 11/96
Metric/English

Louisiana Department of Transportation and Development

ROADWAY CROSS SECTION

Metric/English: M (M or E) *[Entry Field Located on the MATT Menu]*

Project No: 852-21-0025 **Control Section :** 85221

Log Mile - Begin: 0.000 **Roadway Direction:** 12

Log Mile - End : 3.750

Station - From : _____ **To:** _____ **Number of Lanes:** 02

Lane Width : 3.9 3.9 _____ _____ _____ m(ft)

Misc. Information : _____

_____

ROADWAY SURFACE : 001 (Code) **Width :** 3.9 m(ft) **Thickness :** 90 mm(in)

Widening: Width : _____ m(ft) **Thickness :** _____ mm(in)

Joint Interval: _____ m(ft) **Cold Planing:** _____ mm(in) **Load Transfer:** _____ DB = Dowel Bar SL = Starlug

EXISTING SURFACE : 001 (Code) **Width:** 3.0 m(ft) **Original Surface:** _____ (Code)

BASE : 038 (Code) **Base Thickness:** 220 mm(in)

SUBBASE : _____ (Code) **Subbase Thickness:** _____ mm(in)

SUBGRADE LAYER : _____ (Code) **Subgrade Soil Group:** A-_____

SHOULDER: (Inside) **Surface:** 004 (Code) **Width :** 1.0 m(ft)

Base : _____ (Code) **Thickness:** 100 mm(in) *Surface + Base*

(Outside) **Surface:** 004 (Code) **Width :** 1.0 m(ft)

Base : _____ (Code) **Thickness:** 100 mm(in) *Surface + Base*

MEDIAN: Type: _____ (Code) **Width :** _____ m(ft) **Average Daily Traffic:** 6100

Approved By: Signature

Roadway Cross Section (03-22-0720) - continued

A Roadway Cross Section record must be entered for each roadway construction type project and as well as every time the control section or typical section changes. Typical section changes which will require data entry on a separate Cross Section are defined by the construction plans, with the following exceptions; 1) Superelevations sections; 2) Width of thickness transition sections and ; 3) Other section which do not apply to the main roadway, such as turn lanes, turnouts, etc. Contact the Pavement Management Section if clarification is needed.

Roadway Cross Section records for roadway type projects are required in most cases to generate a 2059 report. Roadway Cross Section data can be reported in Metric or English units.

Additional explanations and examples indicating proper use of Roadway Direction codes are located at the end of this section.

Metric / English M (M or E) M = Metric E = English	Required entry when selecting '51'. *** Located on the MATT Menu ***

Note 1: ***Since Roadway Cross Section is capable of accommodating metric or english units, entry fields must be entered in the proper format based on the reporting unit chosen, M or E.*** ***Example: Shoulder Surface Thickness: 99.99 in.***
Shoulder Surface Thickness: 999mm

Project Number 852-21-0025	Required entry. Must be a valid or lead project no. in TOPS. Associated project numbers are not accepted in this field.

Control Section 85221	Required numeric entry. First five digits of the project number (99999). Identify associated project numbers here.

Log Mile - Begin: 0.000 **Log Mile - End:** 3.750	Required numeric entries (999.999). Based on Control Section or change in typical section.

Roadway Cross Section (03-22-0720) - continued

Roadway Direction: 12

Required numeric entry. Must be a valid Rdwy. Direction Code as listed below.

Note 2: ***With Control*** *- In the same direction as Control Section runs as described in the Control Section Manual.*
Against Control *- In opposite direction from 'With Control'.*

Direction Codes

01	Main Rdwy With Control	06	Ramp Against Control
02	Main Rdwy Against Control	12	Main Rdwy Both Directions
03	Service Road With Control	34	Service Road Both Directions
04	Service Road Against Control	56	Ramps Both Directions
05	Ramp with Control		

Station - From:

Station - To:

Can be entered in any of the following formats. Blanks are permitted and leading zeros may be omitted.
Metric: 999+999 99+999 9+999
English: 9999+99 999+99 99+99 9+99

Number of Lanes: 02

This is a two character numeric field (must be 01 - 05). Blanks are permitted.

Note 3: ***Number of Lanes should show the Total for both directions, even if working in only one direction.***

Lane Width: 3.9 *(Occurs 5 times)*

Numeric (99.9m) (99.9ft). Can provide entries for five lanes.

Misc. Information

Alphanumeric entry, 60 characters. Use this field to enter any information that can not be entered in other fields that is important enough to be noted. Any Associated Project Numbers can also be entered here.

Roadway Cross Section (03-22-0720) - continued

ROADWAY SURFACE: 001 (Code) Width : 3.9 m(ft) Thickness : 90 mm(in)

Widening: Width : ____ m(ft) Thickness : ____ mm(in)

Joint Interval: ____ m(ft) Cold Planing: ____ mm(in) Load Transfer: ____

DB = Dowel Bar
SL = Starlug

- Roadway Surface Code - Identify the surface as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Widths - (99.9m) (99.9ft) Roadway Width required if Roadway Surface Code is entered.
- Thicknesses - (999mm) (99.99 in) Roadway Thickness is required if Roadway Surface Code is entered.
- Joint Interval - (99.9m) (99.99 ft)
- Cold Planing - (999mm) (99.9 in)
- Load Transfer - (DB=Dowel Bar, SL=Starlug)

Note 4: ***At lease <u>one</u> of the following types of codes <u>must</u> be entered to create a record: RDWY Surface Code, Existing Surface Code, Base Code, Subbase Code, or SHLD Surface or Base Code.***

EXISTING SURFACE : 001 (Code) Width: 3.0 m(ft) Original Surface: ____ (Code)

- Existing Surface Code - Identify the current roadway surface, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Width (99.9m) (99.9ft)
- Original Surface - Identify the original roadway, leave blank if not applicable. Valid codes located in the Material Codes portion of this book.

BASE: 038 (Code) Base Thickness: 220 mm(in)

- Base Code - Identify the base as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Thickness - (999mm) (99.99 in), Required if base code is entered.

SUBBASE: Code Subbase Thickness: mm(in)

- Subbase Code - Identify the subbase as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Thickness - (999mm) (99.99 in) Required if subbase code is entered.

SUBGRADE LAYER Code Subgrade Soil Group: A-

- Subgrade Layer Code - Identify as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Subgrade Soil Group - (A Group), alphanumeric, first 2 characters must be 'A-'.

SHOULDER: (Inside)	Surface:	004 Code	Width : 1.0	m(ft)
	Base :	Code	Thickness: 100 Surface + Base	mm(in)
(Outside)	Surface:	004 Code	Width : 1.0	m(ft)
	Base :	Code	Thickness: 100 Surface + Base	mm(in)

- Shoulder Surface Code - Identify the shoulder surface as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Width - (99.9m) (99.9ft) Required if a shoulder surface code is entered.
- Shoulder Base Code - Identify the shoulder base as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Shoulder Thickness - (999mm) (99.99 in). Identify the thickness of the Surface + Base. If no base, identify the surface thickness only.

Roadway Cross Section (03-22-0720) - continued

SUBBASE: Code Subbase Thickness: mm(in)

- Subbase Code - Identify the subbase as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Thickness - (999mm) (99.99 in) Required if subbase code is entered.

SUBGRADE LAYER Code Subgrade Soil Group: A-

- Subgrade Layer Code - Identify as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Subgrade Soil Group - (A Group), alphanumeric, first 2 characters must be 'A-'.

SHOULDER: (Inside)	Surface:	004 Code	Width : 1.0	m(ft)
	Base :	Code	Thickness: 100 Surface + Base	mm(in)
(Outside)	Surface:	004 Code	Width : 1.0	m(ft)
	Base :	Code	Thickness: 100 Surface + Base	mm(in)

- Shoulder Surface Code - Identify the shoulder surface as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Width - (99.9m) (99.9ft) Required if a shoulder surface code is entered.
- Shoulder Base Code - Identify the shoulder base as specified in the contract, leave blank if not applicable. Code may be required in some cases *(see Note 4)*. Valid codes located in the Material Codes portion of this book.
- Shoulder Thickness - (999mm) (99.99 in). Identify the thickness of the Surface + Base. If no base, identify the surface thickness only.

Roadway Cross Section (03-22-0720) - continued

Median Type	⌊⌋⌋⌋	Median code, numeric. Must be a valid code listed below.
Median Width	⌊⌋⌋⌋⌋	Width, numeric (99.9m) (99.9ft).

Median Type Codes

001 Barrier
002 Gravel
003 Paved
004 Sod

Average Daily Traffic	6100	This is a six character numeric field. Blanks are permitted and leading zeros may be omitted. Identified on the Plans Title Sheet.

Approved By:	Signature	Signature of authorized representative.

EXAMPLE 1

MATT MENU SELECTION - 51

DOTD 03-22-0720
Rev. 11/96
Metric/English

Louisiana Department of Transportation and Development

ROADWAY CROSS SECTION

Metric/English: E (M or E) *[Entry Field Located on the MATT Menu]*

Project No: 999-99-9999 **Control Section :** 99999

Log Mile - Begin: 0.000 **Roadway Direction:** 01

Log Mile - End : 3.700

Station - From : To: Number of Lanes: 04

Lane Width : 12.0 12.0 m(ft)

Misc. Information :

ROADWAY SURFACE : 001 (Code) Width : 24.0 m(ft) Thickness : 2.00 mm(in)

Widening: Width : m(ft) Thickness : mm(in)

Joint Interv: m(ft) Cold Planing: 2.0 mm(in) Load Transfer: DB = Dowel Bar SL = Starlug

This describes a roadway, comprised of two lanes, which is carrying traffic only in the direction of the control (i.e. from low CSLM); another roadway divided from and adjacent to, this roadway, has lanes carrying traffic in the opposite direction (i.e. against the control).

Each lane of this two-lane roadway is twelve foot wide and in both lanes we are taking off two inches by cold planing and putting back a two inch overlay.

Roadway Cross Section (03-22-0720) - continued

EXAMPLE 2

MATT MENU SELECTION - 51

DOTD 03-22-0720
Rev. 11/96
Metric/English

Louisiana Department of Transportation and Development

ROADWAY CROSS SECTION

Metric/English: E (M or E) *[Entry Field Located on the MATT Menu]*

Project No: 999-99-9999 **Control Section :** 99999

Log Mile - Begin: 0.000 **Roadway Direction:** 02

Log Mile - End : 3.650

Station - From : To: Number of Lanes: 04

Lane Width : 12.0 12.0 m(ft)

Misc. Information :

ROADWAY SURFACE : 001 (Code) Width : 24.0 m(ft) Thickness : 3.50 mm(in)

Widening: Width : m(ft) Thickness : mm(in)

Joint Interv: m(ft) Cold Planing: mm(in) Load Transfer: DB = Dowel Bar SL = Starlug

This describes a roadway, comprised of two lanes, which is carrying traffic only in the direction opposite of the control (i.e. from high CSLM to a lower CSLM); another roadway, divided from, and adjacent to this roadway, has lanes carrying traffic in a direction opposite this roadway (i.e. with the control).

Each lane of this roadway is twelve foot wide and in both lanes we are putting a 3 ½ inch overlay with no cold planing.

Note: If one project on a multi-roadway facility (i.e. a divided highway) has different typicals on each of its directional roadways, then two cross-section entries would need to be completed similar to those in Examples 1 and 2.

If, however, a project is only doing work on one roadway (either the roadway running with the control or the roadway running against the control), then only one cross-section would need to be completed - similar to those in Examples 1 or 2.

EXAMPLE 2

MATT MENU SELECTION - 51

DOTD 03-22-0720
Rev. 11/96
Metric/English

Louisiana Department of Transportation and Development

ROADWAY CROSS SECTION

Metric/English: E (M or E) *[Entry Field Located on the MATT Menu]*

Project No: 999-99-9999 **Control Section :** 99999

Log Mile - Begin: 0.000 **Roadway Direction:** 02

Log Mile - End : 3.650

Station - From : To: Number of Lanes: 04

Lane Width : 12.0 12.0 m(ft)

Misc. Information :

ROADWAY SURFACE : 001 (Code) Width : 24.0 m(ft) Thickness : 3.50 mm(in)

Widening: Width : m(ft) Thickness : mm(in)

Joint Interv: m(ft) Cold Planing: mm(in) Load Transfer: DB = Dowel Bar SL = Starlug

This describes a roadway, comprised of two lanes, which is carrying traffic only in the direction opposite of the control (i.e. from high CSLM to a lower CSLM); another roadway, divided from, and adjacent to this roadway, has lanes carrying traffic in a direction opposite this roadway (i.e. with the control).

Each lane of this roadway is twelve foot wide and in both lanes we are putting a 3 ½ inch overlay with no cold planing.

Note: If one project on a multi-roadway facility (i.e. a divided highway) has different typicals on each of its directional roadways, then two cross-section entries would need to be completed similar to those in Examples 1 and 2.

If, however, a project is only doing work on one roadway (either the roadway running with the control or the roadway running against the control), then only one cross-section would need to be completed - similar to those in Examples 1 or 2.

EXAMPLE 3

MATT MENU SELECTION - 51

DOTD 03-22-0720
Rev. 11/96
Metric/English

Louisiana Department of Transportation and Development

ROADWAY CROSS SECTION

Metric/English: E (M or E) *[Entry Field Located on the MATT Menu]*

Project No: 999-99-9999 **Control Section :** 99999

Log Mile - Begin: 167.028 **Roadway Direction:** 12

Log Mile - End : 173.058

Station - From : To: Number of Lanes: 04

Lane Width : 12.0 12.0 12.0 12.0 m(ft)

Misc. Information :

ROADWAY SURFACE : 001 (Code) Width : 48.0 m(ft) Thickness : 3.50 mm(in)

Widening: Width : m(ft) Thickness : mm(in)

Joint Interv: m(ft) Cold Planing: 2.0 mm(in) Load Transfer: DB = Dowel Bar SL = Starlug

This describes a multi-roadway project on a divided highway where both roadways (i.e. one carrying traffic in the direction of the control and one carrying traffic in the opposite direction) will receive the same treatment.

On each two lane roadway, we are taking off two inches by cold planing and putting back a 3 ½ inch overlay.

EXAMPLE 4

MATT MENU SELECTION - 51

DOTD 03-22-0720
Rev. 11/96
Metric/English

Louisiana Department of Transportation and Development

ROADWAY CROSS SECTION

Metric/English: E (M or E) *[Entry Field Located on the MATT Menu]*

Project No: 222-22-2222 **Control Section :** 22222

Log Mile - Begin: 175.025 **Roadway Direction:** 12

Log Mile - End : 183.075

Station - From : _____ To: _____ Number of Lanes: 02

Lane Width : 12.0 12.0 _____ _____ _____ m(ft)

Misc. Information : _____

_____

ROADWAY SURFACE : 001 Code Width : 24.0 m(ft) Thickness : 3.50 mm(in)

Widening: Width : _____ m(ft) Thickness : _____ mm(in)

Joint Interv: _____ m(ft) Cold Planing: 2.0 mm(in) Load Transfer: _____ DB = Dowel Bar SL = Starlug

This describes a two lane undivided roadway where one lane is carrying traffic in the direction of the control and the other lane is carrying traffic in the direction opposite of the control. Since both lanes will have the same treatment (i.e. cold plan two inches off and put back a 3 ½ inch overlay), only one cross-section entry is needed which identifies two lanes and a 24 foot roadway width.

EXAMPLE 5

MATT MENU SELECTION - 51

DOTD 03-22-0720
Rev. 11/96
Metric/English

Louisiana Department of Transportation and Development

ROADWAY CROSS SECTION

Metric/English: E (M or E) *[Entry Field Located on the MATT Menu]*

Project No: 222-22-2222 **Control Section :** 222222

Log Mile - Begin: 80.042 **Roadway Direction:** 12

Log Mile - End : 110.070

Station - From : _____ To: _____ Number of Lanes: 04

Lane Width : 12.0 12.0 12.0 12.0 _____ m(ft)

Misc. Information : _____

ROADWAY SURFACE : _____ (Code) Width : 48.0 m(ft) Thickness : 3.50 mm(in)

Widening: Width : _____ m(ft) Thickness : _____ mm(in)

Joint Interv: _____ m(ft) Cold Planing: 2.0 mm(in) Load Transfer: _____ DB = Dowel Bar SL = Starlug

This describes a four-lane, undivided roadway where two lanes are carrying traffic in the direction of the control and the other two lanes are carrying traffic in a direction against the control. Since all four lanes will have the same treatment (i.e. cold plan two inches off and put back a 3 ½ inch overlay), only one cross-section entry is required to identify the four lanes and 48 foot roadway width.