

FLH Sample Plans – Summary of Quantities

General

Create the summary of quantity sheets from the template spreadsheet using exported data from Masterworks.

Item numbers, descriptions, and units are only shown as examples of how and what to include. For each project, include the information applicable to the project.

To determine applicable pay items for each division, refer to each divisions engineering estimate handbook.

CFL: EE Manual - <https://highways.dot.gov/federal-lands/estimates/cfl/estimate-manual>

EFL: Estimating Handbook https://usdot.sharepoint.com/:b:/r/sites/fhwa-efl-HighwayDesign/SiteAssets/SitePages/Manuals-and-References/Draft%20EFL_estimating-handbook.pdf?csf=1&web=1&e=1O7dS0 (internal only)

WFL: Estimating Handbook <https://highways.dot.gov/federal-lands/estimates/wfl/estimating-handbook>

Columns

Column Names

Match the column names to the description of the items shown on the sheets as described in the section on Sheet Indexes.

Example: 152 and 157 pay items – Survey and Staking and Erosion Control Summaries

Add this information in the Column Header section in the Engineer’s Estimate Details in Masterworks. This information will be exported with the data.

Width

When the CSV data is attached, the spreadsheet is resized to fit all available columns. Resize the columns to fit as necessary to optimize the space and avoid border overlaps. Hide any remaining empty columns.

Sheet Title

There are three options for the sheet title.

- For no schedule and options: SUMMARY OF QUANTITIES
- For 2 or more base schedules:
 - o SUMMARY OF QUANTITIES – SCHEDULE A
 - o SUMMARY OF QUANTITIES – SCHEDULE B
- For 1 or more base schedule and options:
 - o SUMMARY OF QUANTITIES – SCHEDULE A
 - o SUMMARY OF QUANTITIES – OPTION X

NPS Information

FLH Sample Plans – Summary of Quantities

For National Park Service projects, the NPS PMIS Number and the NPS Drawing Number appear in the upper right corner of the plan sheet. Enter this information in the *Information* tab of the Summary of Quantities spreadsheet.

FLH Sample Plans – Tabulation of Quantities

General

Tabulation of Quantity sheets are used to show locations, quantities and notes related to specific bid items. Generally, include bid items that are to be paid for under the specific section. For example, it is acceptable to show drainage surveying, pipe removal and riprap apron quantities within the drainage summary. Do not show tables when the table provides no more information than what is shown in the summary of quantities (i.e. most LPSM pay items). Normally identify bid items in the order they appear in the Summary of Quantities.

Create all Tabulation of Quantities sheets within the sheet model in ORD to ensure proper scaling when pasting tables from Microsoft Excel. See [ORD Manual chapter 14D.4](#) to create the sheet model.

Template excel tables are available for each FP section at <https://highways.dot.gov/federal-lands/design/plan-prep/templates>. Starting with these templates will ensure correct formatting.

Place all tables within an FP division on one sheet if possible. Place tables in numerical order as they appear in the FP.

Refer to the following resources for selecting pay items appropriate to the division.

- CFL: *EE Manual* - <https://highways.dot.gov/federal-lands/estimates/cfl/estimate-manual>
- EFL: *Estimating Handbook* - https://usdot.sharepoint.com/:b:/r/sites/fhwa-efl-HighwayDesign/SiteAssets/SitePages/Manuals-and-References/Draft%20EFL_estimating-handbook.pdf?csf=1&web=1&e=1O7dS0 **(internal use only)**
- WFL: *Estimating Handbook* - <https://highways.dot.gov/federal-lands/estimates/wfl/estimating-handbook>

Earthwork/Grading Summary

Include an earthwork/grading summary table on all projects that require modeling. The Earthwork/Grading Summary table describes the assumptions made for each project and clearly shows how all earthwork is generated, where it is placed and how it is accounted for.

Refer to the following resources for representing earthwork appropriate to the division.

- CFL: *Grading Summary* - Template can be found at: <https://highways.dot.gov/federal-lands/design/plan-prep/cfl/cfl-template-drawings-fp24/204-Grading.xlsm> ****Follow the detailed directions within the template spreadsheet.****
- EFL: *Earthwork Summary* – Template can be found at: https://flh.fhwa.dot.gov/resources/design/plans/efl/template/documents/Quantity_FP24.xlsx
- WFL: *Earthwork Summary* - Template can be found at: <https://highways.dot.gov/federal-lands/design/plan-prep/wfl/templates/earthwork.xlsx>

Schedules and Options

Designate schedules and options in each table. See [PDDM Section 9.6.2](#) for additional information on using alternative bid schedule packages and options. Provide totals for each bid schedule.

Options can be placed in their own tables or can be included with the rest of the tables. Check with the project team to determine which is best for the project.

FLH Sample Plans – Tabulation of Quantities

When multiple funding sources are present, add additional columns to the table and mark which quantities belong to which funding source.

CLEARING AND GRUBBING, SEE				
Item Number				20103-0000
Station to Station	Side	FLAP FUNDING	ER FUNDING	CLEARING AND GRUBBING
1267+00 - 1270+00	RT		X	499
1273+00 - 1275+00	RT		X	325
1288+67 - 1290+00	RT		X	185
1477+10 - 1478+50	LT		X	195
1528+26 - 1532+00	LT		X	1,156
1383+90 - 1410+03	RT	X		581
1428+00 - 1475+90	RT	X		1,064
1550+00 - 1560+00	RT	X		222
1648+50 - 1655+50	RT	X		156
1655+50 - 1693+50	RT	X		844
1751+00 - 1800+50	RT	X		1,100
As directed by CO	LT/RT	X		500
TOTALS				6,827

SUMMARY OF QUANTITIES - Schedule A

PROJECT	SHEET NUMBER
CO FLAP US50(1)	B.1

Use amendment column as needed

Start from template at <https://highways.dot.gov/federal-lands/estimates/forms/masterworks-summary-quantities>

Show bid schedule/option. If only one schedule leave blank

A M E N D	LINE ITEM NO.	PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	Sheet and Description								ALLOW- ANCE	Estimated Quantities	Remarks
					B.7	B.8	B.9	B.10	B.11	B.12-B.13	B.14-B.15	B.16		BID SCHEDULE	
					Survey and Staking and Erosion Control	Earthwork Summaries	Earth Retaining System Summaries	Surfacing Summary	Drainage Summary	Miscellaneous Summaries	Permanent Traffic Control Summaries	Temporary Traffic Control Summaries			
	A0020	15101-0000	MOBILIZATION	LPSM										ALL	
	A0040	15215-1000	SURVEY AND STAKING, APPROACH ROAD	EACH	2									2	
	A0060	15215-3000	SURVEY AND STAKING, DRAINAGE STRUCTURE	EACH					20					20	
	A0080	15225-0000	SLOPE, REFERENCE, AND CLEARING AND GRUBBING CONTROL	MILE	2.14									2.14	
	A0100	15236-2000	SURVEY CONTROL, GRADE FINISHING	MILE	4.28									4.28	
	A0120	15703-1500	SOIL EROSION CONTROL, TEMPORARY SOIL TACKIFIER	ACRE	14.3									14.3	
	A0140	15705-0100	SOIL EROSION CONTROL, SILT FENCE	LNFT	2,360							140		2,500	
	A0160	15705-1400	SOIL EROSION CONTROL, FIBER ROLL	LNFT	325							25		350	
	A0180	15706-0200	SOIL EROSION CONTROL, CHECK DAM	EACH	92							8		100	
	A0200	20103-0000	CLEARING AND GRUBBING	SQYD		2,941						59		3,000	
	A0220	20301-1900	REMOVAL OF PIPE CULVERT	EACH					19					19	
	A0240	20301-2400	REMOVAL OF SIGN	EACH							1			1	
	A0260	20302-0700	REMOVAL OF FENCE	LNFT							236	14		250	
	A0280	20302-1200	REMOVAL OF GUARDRAIL	LNFT							1,330	170		1,500	
	A0300	20304-1000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LPSM										ALL	
	A0320	20401-0000	ROADWAY EXCAVATION	CUYD		2,915						585		3,500	
	A0340	25101-0200	PLACED RIPRAP, CLASS 2	CUYD					102			48		150	
	A0360	25101-0300	PLACED RIPRAP, CLASS 3	CUYD					55			5		60	
	A0380	25101-0400	PLACED RIPRAP, CLASS 4	CUYD					34			16		50	
	A0400	25210-0000	ROCKERY,(REPAIR)	SQFT			4,560					440		5,000	
	A0420	25501-1000	MECHANICALLY STABILIZED EARTH WALL, WELDED WIRE FACE	SQFT			4,477					23		4,500	
	A0440	30201-2000	ROADWAY AGGREGATE, METHOD 2	CUYD				4,905				95		5,000	
	A0480	40101-0700	ASPHALT CONCRETE PAVEMENT, GYRATORY MIX, 1/2-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 3 TO <30 MILLION ESAL	TON				3,898				202		4,100	
	A0500	40105-3000	ANTISTRIP ADDITIVE, TYPE 3	TON				39				1		40	
	A0520	40601-0000	FOG SEAL	TON				9				1		10	
	A0540	41102-1000	PRIME COAT, METHOD 1	SQYD				28				2		30	
	A0560	41201-0000	TACK COAT	TON				9				1		10	
	A0580	41301-0600	ASPHALT PAVEMENT MILLING, 2-INCH DEPTH	SQYD				376				24		400	
	A0600	50101-0600	MINOR CONCRETE PAVEMENT, REINFORCED, 6-INCH DEPTH,(COLORED)	SQYD				146				4		150	
	A0620	60103-0000	CONCRETE, HEADWALL	EACH				4						4	
	A0640	60201-0800	24-INCH PIPE CULVERT	LNFT					492			18		510	
	A0660	60201-1000	36-INCH PIPE CULVERT	LNFT					124			6		130	
	A0680	60210-0800	END SECTION FOR 24-INCH PIPE CULVERT	EACH					17					17	
	A0700	60210-1000	END SECTION FOR 36-INCH PIPE CULVERT	EACH					4					4	
	A0720	60901-2300	CURB, ASPHALT, 6-INCH DEPTH	LNFT							894	106		1,000	
	A0740	60902-1000	CURB AND GUTTER, CONCRETE, 12-INCH DEPTH	LNFT							23	2		25	
	A0760	61001-0100	SIDEWALK, CONCRETE	SQYD							1,110	90		1,200	
	A0780	61001-0700	SIDEWALK, DECOMPOSED GRANITE	SQYD							125	25		150	
	A0800	61701-5150	GUARDRAIL SYSTEM MGS, TYPE 4, CLASS B, WOOD POSTS	LNFT							800	100		900	

Verify sheet numbers and descriptions match summary tables

Show supplemental description

Verify descriptions are not cut off

Item number, description, supplemental description, and pay unit should match estimate and summary tables

Information shown is for illustration purposes only and is not an exact representation of a project. To determine applicable pay items refer to division estimating documentation.

Milestone: 100% Estimate; Date Completed: 9/9/2025

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SUMMARY OF QUANTITIES - Schedule A

PROJECT	SHEET NUMBER
CO FLAP US50(1)	B.2

Use amendment column as needed

Start from template at <https://highways.dot.gov/federal-lands/estimates/forms/masterworks-summary-quantities>

Show bid schedule/option. If only one schedule leave blank

A M E N D	LINE ITEM NO.	PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	Sheet and Description								ALLOW- ANCE	Estimated Quantities	Remarks
					B.7	B.8	B.9	B.10	B.11	B.12-B.13	B.14-B.15	B.16		BID SCHEDULE	
					Survey and Staking and Erosion Control Summaries	Earthwork Summaries	Earth Retaining System Summaries	Surfacing Summary	Drainage Summary	Miscellaneous Summaries	Permanent Traffic Control Summaries	Temporary Traffic Control Summaries			
	A0820	61702-1500	TERMINAL SYSTEM, TYPE MGS TANGENT	EACH							3			3	
	A0840	61702-1600	TERMINAL SYSTEM, TYPE MGS FLARED	EACH							3			3	
	A0860	61901-0600	FENCE, BARBED WIRE	LNFT							237		13	250	
	A0880	62201-0250	DUMP TRUCK, 10 CUBIC YARD MINIMUM CAPACITY	HOUR										80	
	A0900	62201-0550	BACKHOE LOADER, 6 CUBIC FOOT MINIMUM RATED CAPACITY BUCKET, 24-INCH WIDTH	HOUR										80	
	A0920	62201-0950	WHEEL LOADER, 3 CUBIC YARD MINIMUM RATED CAPACITY	HOUR										80	
	A0940	62201-2850	MOTOR GRADER, 12 FOOT MINIMUM BLADE	HOUR										80	
	A0960	62201-3150	HYDRAULIC EXCAVATOR, 1.0 CUBIC YARD MINIMUM CAPACITY WITH THUMB ATTACHMENT	HOUR										80	
	A0980	62301-0000	GENERAL LABOR	HOUR										120	
	A1000	62302-1000	SPECIAL LABOR, HIRED TECHNICAL SERVICES	HOUR										40	
	A1020	62302-1100	SPECIAL LABOR, HIRED SURVEY SERVICES	HOUR										40	
	A1040	62510-2000	SEEDING, HYDRAULIC METHOD	ACRE							18		2	20	
	A1060	62515-2000	MULCHING, HYDRAULIC METHOD	ACRE							18		2	20	
	A1080	63301-0000	SIGN SYSTEM	EACH								11		11	
	A1100	63308-0000	OBJECT MARKER	EACH								2		2	
	A1120	63316-1000	REMOVE AND RESET SIGN SYSTEM	EACH								1		1	
	A1140	63401-0300	PAVEMENT MARKINGS, TYPE B, SOLID	LNFT								16,544	956	17,500	
	A1160	63401-0400	PAVEMENT MARKINGS, TYPE B, BROKEN	LNFT								508	32	540	
	A1180	63501-1000	TEMPORARY TRAFFIC CONTROL, TRAFFIC CONTROL SUPERVISOR	LPSM										ALL	
	A1200	63502-0600	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 3	EACH										10	
	A1220	63502-1050	TEMPORARY TRAFFIC CONTROL, TUBULAR MARKER	EACH										200	
	A1240	63502-1600	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE B	EACH										10	
	A1260	63502-2000	TEMPORARY TRAFFIC CONTROL, PORTABLE CHANGEABLE MESSAGE SIGN	EACH										4	
	A1280	63503-1000	TEMPORARY TRAFFIC CONTROL, PLASTIC FENCE	LNFT										2,000	
	A1300	63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN	SQFT									17	500	
	A1320	63505-1000	TEMPORARY TRAFFIC CONTROL, PAVEMENT MARKINGS	MILE										9.2	
	A1340	63506-0500	TEMPORARY TRAFFIC CONTROL, FLAGGER	HOUR										7,000	
	A1360	63506-0600	TEMPORARY TRAFFIC CONTROL, PILOT CAR	HOUR										2,500	
	A1380	63701-0000	FIELD OFFICE	EACH										1	

Verify sheet numbers and descriptions match summary tables

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SUMMARY OF QUANTITIES - Schedule B

PROJECT	SHEET NUMBER
CO FLAP US50(1)	B.3

Use amendment column as needed

Start from template at <https://highways.dot.gov/federal-lands/estimates/forms/masterworks-summary-quantities>

Show bid schedule/option. If only one schedule leave blank

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A M E N D	LINE ITEM NO.	PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	Sheet and Description								ALLOW- ANCE	Estimated Quantities		Remarks
					B.7	B.8	B.9	B.10	B.11	B.12-B.13	B.14-B.15	B.16		BID SCHEDULE		
					Survey and Staking and Erosion Control Summaries	Earthwork Summaries	Earth Retaining System Summaries	Surfacing Summary	Drainage Summary	Miscellaneous Summaries	Permanent Traffic Control Summaries	Temporary Traffic Control Summaries				
	B0020	15101-0000	MOBILIZATION	LPSM										ALL		
	B0040	15215-1000	SURVEY AND STAKING, APPROACH ROAD	EACH	3									3		
	B0060	15215-3000	SURVEY AND STAKING, DRAINAGE STRUCTURE	EACH					20					20		
	B0080	15225-0000	SLOPE, REFERENCE, AND CLEARING AND GRUBBING CONTROL	MILE	4.05									4.05		
	B0100	15236-2000	SURVEY CONTROL, GRADE FINISHING	MILE	8.11									8.11		
	B0120	15703-1500	SOIL EROSION CONTROL, TEMPORARY SOIL TACKIFIER	ACRE	14.3									14.3		
	B0140	15705-0100	SOIL EROSION CONTROL, SILT FENCE	LNFT	2,360								140	2,500		
	B0160	15705-1400	SOIL EROSION CONTROL, FIBER ROLL	LNFT	325								25	350		
	B0180	15706-0200	SOIL EROSION CONTROL, CHECK DAM	EACH	92								8	100		
	B0200	20103-0000	CLEARING AND GRUBBING	SQYD		2,941							59	3,000		
	B0220	20301-1900	REMOVAL OF PIPE CULVERT	EACH					19					19		
	B0240	20301-2400	REMOVAL OF SIGN	EACH							2			2		
	B0260	20302-0700	REMOVAL OF FENCE	LNFT							236		14	250		
	B0280	20302-1200	REMOVAL OF GUARDRAIL	LNFT							1,330		170	1,500		
	B0300	20304-1000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LPSM										ALL		
	B0320	20401-0000	ROADWAY EXCAVATION	CUYD		2,915							585	3,500		
	B0340	25101-0200	PLACED RIPRAP, CLASS 2	CUYD					102				48	150		
	B0360	25101-0300	PLACED RIPRAP, CLASS 3	CUYD					55				5	60		
	B0380	25101-0400	PLACED RIPRAP, CLASS 4	CUYD					34				16	50		
	B0400	25210-0000	ROCKERY,(REPAIR)	SQFT			4,560						440	5,000		
	B0420	25501-1000	MECHANICALLY STABILIZED EARTH WALL, WELDED WIRE FACE	SQFT			4,477						23	4,500		
	B0440	30201-2000	ROADWAY AGGREGATE, METHOD 2	CUYD				4,905					95	5,000		
	B0480	40101-0700	ASPHALT CONCRETE PAVEMENT, GYRATORY MIX, 1/2-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 3 TO <30 MILLION ESAL	TON				3,898					202	4,100		
	B0500	40105-3000	ANTISTRIP ADDITIVE, TYPE 3	TON				39					1	40		
	B0520	40601-0000	FOG SEAL	TON				9					1	10		
	B0540	41102-1000	PRIME COAT, METHOD 1	SQYD				28					2	30		
	B0560	41201-0000	TACK COAT	TON				9					1	10		
	B0580	41301-0600	ASPHALT PAVEMENT MILLING, 2-INCH DEPTH	SQYD				376					24	400		
	B0600	50101-0600	MINOR CONCRETE PAVEMENT, REINFORCED, 6-INCH DEPTH,(COLORED)	SQYD				146					4	150		
	B0620	60103-0000	CONCRETE, HEADWALL	EACH				4						4		
	B0640	60201-0800	24-INCH PIPE CULVERT	LNFT				492					18	510		
	B0660	60201-1000	36-INCH PIPE CULVERT	LNFT				124					6	130		
	B0680	60210-0800	END SECTION FOR 24-INCH PIPE CULVERT	EACH				17						17		
	B0700	60210-1000	END SECTION FOR 36-INCH PIPE CULVERT	EACH				4						4		
	B0720	60901-2300	CURB, ASPHALT, 6-INCH DEPTH	LNFT							894		106	1,000		
	B0740	60902-1000	CURB AND GUTTER, CONCRETE, 12-INCH DEPTH	LNFT							23		2	25		
	B0760	61001-0100	SIDEWALK, CONCRETE	SQYD							1,110		90	1,200		
	B0780	61001-0700	SIDEWALK, DECOMPOSED GRANITE	SQYD							125		25	150		
	B0800	61701-5150	GUARDRAIL SYSTEM MGS, TYPE 4, CLASS B, WOOD POSTS	LNFT							800		100	900		

Verify sheet numbers and descriptions match summary tables

Show supplemental description

Verify descriptions are not cut off

Milestone: 100% Estimate; Date Completed: 9/9/2025

Item number, description, supplemental description, and pay unit should match estimate and summary tables

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SUMMARY OF QUANTITIES - Schedule B

PROJECT	SHEET NUMBER
CO FLAP US50(1)	B.4

Use amendment column as needed

Start from template at <https://highways.dot.gov/federal-lands/estimates/forms/masterworks-summary-quantities>

Show bid schedule/option. If only one schedule leave blank

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A M E N D	LINE ITEM NO.	PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	Sheet and Description								ALLOW- ANCE	Estimated Quantities	Remarks
					B.7	B.8	B.9	B.10	B.11	B.12-B.13	B.14-B.15	B.16		BID SCHEDULE	
					Survey and Staking and Erosion Control Summaries	Earthwork Summaries	Earth Retaining System Summaries	Surfacing Summary	Drainage Summary	Miscellaneous Summaries	Permanent Traffic Control Summaries	Temporary Traffic Control Summaries			
	B0820	61702-1500	TERMINAL SYSTEM, TYPE MGS TANGENT	EACH							3		3		
	B0840	61702-1600	TERMINAL SYSTEM, TYPE MGS FLARED	EACH							3		3		
	B0860	61901-0600	FENCE, BARBED WIRE	LNFT							237	13	250		
	B0880	62201-0250	DUMP TRUCK, 10 CUBIC YARD MINIMUM CAPACITY	HOUR									80		
	B0900	62201-0550	BACKHOE LOADER, 6 CUBIC FOOT MINIMUM RATED CAPACITY BUCKET, 24-INCH WIDTH	HOUR									80		
	B0920	62201-0950	WHEEL LOADER, 3 CUBIC YARD MINIMUM RATED CAPACITY	HOUR									80		
	B0940	62201-2850	MOTOR GRADER, 12 FOOT MINIMUM BLADE	HOUR									80		
	B0960	62201-3150	HYDRAULIC EXCAVATOR, 1.0 CUBIC YARD MINIMUM CAPACITY WITH THUMB ATTACHMENT	HOUR									80		
	B0980	62301-0000	GENERAL LABOR	HOUR									120		
	B1000	62302-1000	SPECIAL LABOR, HIRED TECHNICAL SERVICES	HOUR									40		
	B1020	62302-1100	SPECIAL LABOR, HIRED SURVEY SERVICES	HOUR									40		
	B1040	62510-2000	SEEDING, HYDRAULIC METHOD	ACRE							30	2	32		
	B1060	62515-2000	MULCHING, HYDRAULIC METHOD	ACRE							30	2	32		
	B1080	63301-0000	SIGN SYSTEM	EACH								17	17		
	B1100	63308-0000	OBJECT MARKER	EACH								2	2		
	B1120	63316-1000	REMOVE AND RESET SIGN SYSTEM	EACH								1	1		
	B1140	63401-0300	PAVEMENT MARKINGS, TYPE B, SOLID	LNFT								16,544	956	17,500	
	B1160	63401-0400	PAVEMENT MARKINGS, TYPE B, BROKEN	LNFT								508	32	540	
	B1180	63501-1000	TEMPORARY TRAFFIC CONTROL, TRAFFIC CONTROL SUPERVISOR	LPSM										ALL	
	B1200	63502-0600	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 3	EACH									20	20	
	B1220	63502-1050	TEMPORARY TRAFFIC CONTROL, TUBULAR MARKER	EACH									475	475	
	B1240	63502-1600	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE B	EACH									20	20	
	B1260	63502-2000	TEMPORARY TRAFFIC CONTROL, PORTABLE CHANGEABLE MESSAGE SIGN	EACH									8	8	
	B1280	63503-1000	TEMPORARY TRAFFIC CONTROL, PLASTIC FENCE	LNFT									4,000	4,000	
	B1300	63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN	SQFT									435	15	450
	B1320	63505-1000	TEMPORARY TRAFFIC CONTROL, PAVEMENT MARKINGS	MILE									23.7	23.7	
	B1340	63506-0500	TEMPORARY TRAFFIC CONTROL, FLAGGER	HOUR									15,000	15,000	
	B1360	63506-0600	TEMPORARY TRAFFIC CONTROL, PILOT CAR	HOUR									5,500	5,500	
	B1380	63701-0000	FIELD OFFICE	EACH									1		
	B1400	63502-0500	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 2	EACH									2	2	

Item number, description, supplemental description, and pay unit should match estimate and summary tables

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SUMMARY OF QUANTITIES - Option X

PROJECT	SHEET NUMBER
CO FLAP US50(1)	B.5

Use amendment column as needed

Start from template at <https://highways.dot.gov/federal-lands/estimates/forms/masterworks-summary-quantities>

Show bid schedule/option. If only one schedule leave blank

C:\Users\Angela.Johnson\AppData\Local\Temp\Bluebeam Software\34814997.xls\m\Sheet

A M E N D	LINE ITEM NO.	PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	Sheet and Description		ALLOWANCE	Estimated Quantities	Remarks
					B.12-B.13	S.2		BID SCHEDULE	
					Miscellaneous Summaries	Bridge Items			
	X0020	15101-0000	MOBILIZATION	LPSM				ALL	
	X0040	15214-1000	SURVEY AND STAKING, BRIDGE	LPSM				ALL	
	X0060	15301-0000	CONTRACTOR QUALITY CONTROL	LPSM				ALL	
	X0080	15401-0000	CONTRACTOR TESTING	LPSM				ALL	
	X0100	15501-0000	CONSTRUCTION SCHEDULE	LPSM				ALL	
	X0120	15701-0000	SOIL EROSION CONTROL	LPSM				ALL	
	X0140	20305-1000	REMOVAL OF CONCRETE,(ABUTMENT)	CUYD		1		1	
	X0160	20801-0000	STRUCTURE EXCAVATION	CUYD		2			Contract Quantity,
	X0180	25126-0000	REMOVE AND RESET BOULDER	EACH					
	X0200	55401-1000	REINFORCING STEEL	LB		200			Contract Quantity,
	X0220	55504-0000	PRE-FABRICATED STEEL BRIDGE,(MODULAR STEEL PEDESTRIAN BRIDGE)	LPSM					
	X0240	60101-0000	CONCRETE	CUYD		1		1	Contract Quantity,
	X0260	61920-1000	REMOVE AND RESET BOLLARD POST	EACH				1	
	X0280	62201-0200	DUMP TRUCK, 8 CUBIC YARD MINIMUM CAPACITY	HOUR				10	
	X0300	62201-0550	BACKHOE LOADER, 6 CUBIC FOOT MINIMUM RATED CAPACITY BUCKET, 24-INCH WIDTH	HOUR				10	
	X0320	62201-0950	WHEEL LOADER, 3 CUBIC YARD MINIMUM RATED CAPACITY	HOUR				10	
	X0340	62301-0000	GENERAL LABOR	HOUR				40	
	X0360	62302-1100	SPECIAL LABOR, HIRED SURVEY SERVICES	HOUR				10	
	X0380	62510-2000	SEEDING, HYDRAULIC METHOD	ACRE				0.2	
	X0400	62515-2000	MULCHING, HYDRAULIC METHOD	ACRE				0.2	
	X0420	63501-0000	TEMPORARY TRAFFIC CONTROL	LPSM				ALL	
	X0440	63701-0000	FIELD OFFICE	EACH				1	
	X0460	62302-1000	SPECIAL LABOR, HIRED TECHNICAL SERVICES,(DIVERS)	HOUR				10	
	X0480	61901-0600	FENCE, BARBED WIRE	LNFT	1000		100	1100	
	X0500	61902-0000	GATE	EACH	1			1	
	X0540	63501-0000	TEMPORARY TRAFFIC CONTROL	LPSM				ALL	

Verify sheet numbers and descriptions match summary tables

Show supplemental description

Verify descriptions are not cut off

Item number, description, supplemental description, and pay unit should match estimate and summary tables

Information shown is for illustration purposes only and is not an exact representation of a project. To determine applicable pay items refer to division estimating documentation.

SURVEY AND STAKING SUMMARY

Pay Item Number		15215-1000	15225-0000	15236-2000		
Schedule	Station to Station	Side	SURVEY AND STAKING, APPROACH ROAD	SLOPE, REFERENCE, AND CLEARING AND GRUBBING CONTROL	SURVEY CONTROL, GRADE FINISHING	Remarks
			EACH	MILE	MILE	
MAIN 01						
A/B	587+00 to 614+95			0.53	1.06	
A/B	600+00	LT	1			Driveway
A/B	614+95 to 700+00			1.61	3.22	
APPR 01						
A/B	10+00 to 13+41		1			MAIN 01 602+00 = APPR 01 10+00
SCHEDULE A TOTALS			2	2.14	4.28	
MAIN 01						
B	700+00 to 801+00			1.91	3.83	
APPR 02						
B	20+00 to 21+01					MAIN 01 752+10 = APPR 02 20+00
SCHEDULE B TOTALS			2	4.05	8.11	

EROSION CONTROL SUMMARY

Pay Item Number		15703-1500	15705-0100	15705-1400	15706-0200
Station to Station	Side	SOIL EROSION CONTROL, TEMPORARY SOIL TACKIFIER	SOIL EROSION CONTROL, SILT FENCE	SOIL EROSION CONTROL, FIBER ROLL	SOIL EROSION CONTROL, CHECK DAM
		ACRE	LNFT	LNFT	EACH
MAIN 02					
75+50 to 76+00	LT/RT			30	
102+00 to 490+50	LT/RT	14.3			
102+00 to 103+50	RT				7
126+37 to 128+06	LT		70		
128+19 to 135+63	LT		900		
175+50 to 185+50	RT				41
177+83 to 190+64	LT		1,390		
253+00 to 254+75	LT				8
261+00 to 264+50	RT				15
268+50 to 289+50	LT			135	
316+50 to 367+50	RT				21
430+40 to 432+00	RT			160	
TOTALS		14.3	2,360	325	92

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Templates spreadsheets have been created for all tables and are located at <https://highways.dot.gov/federal-lands/design/plan-prep/templates>

Show descriptions/additional information of the work in the remarks column

Show bid schedule totals

Item number, description, supplemental description, and pay unit must match Masterworks estimate

Show bid schedule, stationing, location, item number, description, pay unit, quantity, and remarks as appropriate

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Insert from spreadsheet
Scale = 1

When there is only one schedule show only "total"
When there is more than one schedule or a schedule and option add additional language ("Schedule A", "Option X")

SURVEY AND STAKING AND EROSION CONTROL SUMMARIES

CLEARING AND GRUBBING SUMMARY			
Pay Item Number		20103-0000	
Station to Station	Side	CLEARING AND GRUBBING	
		SQYD	
MAIN 05			
1267+00 to 1270+00	RT	499	
1273+00 to 1275+00	RT	325	
1288+67 to 1290+00	RT	185	
1477+10 to 1478+50	LT	195	
1528+26 to 1532+00	LT	1,156	
1383+90 to 1410+03	RT	581	
TOTAL		2,941	

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CFL Grading Summary and notes shown (<https://highways.dot.gov/federal-lands/design/plan-prep/cfl/cfl-template-drawings-fp24/204-Grading.xlsm>)

EFL Earthwork Summary and associated notes can be found at https://flh.fhwa.dot.gov/resources/design/plans/efl/template/documents/Quantity_FP24.xlsx

WFL Earthwork Summary and associated notes can be found at: <https://highways.dot.gov/sites/fhwa.dot.gov/files/earthwork.xlsx>

Insert from spreadsheet
Scale = 1

GRADING SUMMARY													
Station to Station	Roadway Excavation		Pay Item 20401-0000	Additional Excavation For info only		For info only		Embankment For info only		For info only			For Info Only
	Volume	Approach Roads	ROADWAY EXCAVATION	(+) Available Material (see note 3)	(-) Unavailable Material (see note 4)	Shrink/Swell Factor (see note 5)	Total Excavation Available For Fills	Volume	Approach Roads	(+) Backfill (see note 6)	Total Embankment	Excavation-Embankment	WASTE (see note 7)
	BCY	BCY	CUYD	BCY	BCY		CCY	CCY	CCY	CCY	CCY	CCY	CUYD
MAIN 01													
10+00 to 25+00	2,703	0	2,703	325	1,185	0.95	1,752	36	0	20	56	1,696	
25+00 to 27+00	245	0	245	94	146	0.95	184	1	0	0	1	183	
27+00 to 36+00	1,327	0	1,327	204	682	1.10	935	11	0	2	13	922	
36+00 to 38+00	510	79	589	0	169	0.90	378	3	7	1	11	367	
38+00 to 39+00	136	0	136	0	73	0.90	56	0	0	0	0	56	
TOTALS	4,921	79	5,000	623	2,255		3,305	51	7	23	81	3,224	3,224

When there is only one schedule show only "total"
When there is more than one schedule or a schedule and option add additional language ("Schedule A", "Option X")

Update notes to match division and project requirements

NOTE:

- Quantities based on prismatic (surface to surface) volumes.
- Conserve 4 inches of topsoil in cut and fill slope areas.
- Available material includes structure excavation.
- Unavailable material includes pavement removal in cuts and topsoil stripping in cuts.
- The average shrink/swell factor shown is computed by taking an average of recommended values over the specified range. Refer to the Final Geotech Report dated 7/1/2020 for recommended shrink/swell factors.
- Backfill includes backfill for pavement removal under fill and backfill for topsoil replacement under fill.
- Waste quantity calculated using volumes adjusted with shrink/swell shown.
- BCY = Bank cubic yard - one cubic yard of material as it lies in the natural state.
CCY = Compacted cubic yard - one cubic yard of material after it has been compacted to specification density.

EARTHWORK SUMMARIES

Show bid schedule, stationing, location, item number, description, pay unit, quantity, and remarks as appropriate.

Refer to division estimating document for information regarding showing for information columns

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Insert from spreadsheet
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ROCKERY SUMMARY						
Pay Item Number		For Info Only	For Info Only	For Info Only	For Info Only	25210-0000
Station to Station	Side	Structure Excavation (Rockery)	Rock	Granular Rock Backdrain	Foundation Fill	ROCKERY
		CUYD	CUYD	CUYD	CUYD	SQFT
MAIN 01						
601+60 to 602+35	LT	371	297	114	6	865
619+50 to 623+00	RT	281	738	281	97	3,185
638+70 to 639+20	RT	144	154	72	28	510
TOTALS		796	1,189	467	131	4,560

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Show bid schedule totals

MECHANICALLY-STABILIZED EARTH WALL SUMMARY					
Pay Item Number		For Info Only	For Info Only	For Info Only	25501-1000
Station to Station	Side	Structure Excavation (Walls)	Wall Backfill	Foundation Fill	MECHANICALLY STABILIZED EARTH WALL, WELDED WIRE FACE
		CUYD	CUYD	CUYD	SQFT
MAIN 01					
101+25 to 104+25	LT	757	1,590	83	2,737
200+45 to 201+25	RT	191	199	16	608
201+95 to 203+75	RT	703	246	27	1,132
TOTALS		1,651	2,035	126	4,477

Item number, description, supplemental description, and pay unit must match Masterworks estimate

When there is only one schedule show only "total"
When there is more than one schedule or a schedule and option add additional language ("Schedule A", "Option X")

EARTH RETAINING SYSTEMS SUMMARIES

Show bid schedule, stationing, location, item number, description, pay unit, quantity, and remarks as appropriate

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Insert from spreadsheet
Scale = 1

Item number, description, supplemental description, and pay unit must match Masterworks estimate

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SURFACING SUMMARY								
Pay Item Number	30201-2000	40101-0700	40105-3000	40601-0000	41102-1000	41201-0000	41301-0600	50101-0600
Station to Station	ROADWAY AGGREGATE, METHOD 2	ASPHALT CONCRETE PAVEMENT, GYRATORY MIX, 1/2-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 3 TO <30 MILLION ESAL	ANTISTRIP ADDITIVE, TYPE 3	FOG SEAL	PRIME COAT, METHOD 1	TACK COAT	ASPHALT PAVEMENT MILLING, 2-INCH DEPTH	MINOR CONCRETE PAVEMENT, REINFORCED, 6-INCH DEPTH
	CUYD	TON	TON	TON	SQYD	TON	SQYD	SQYD
MAIN 01								
10+00 to 10+67		43	0.43	0.16	0.44	0.16	376	
10+67 to 25+00	1,436	1,114	11.14	2.10	6.92	2.10		
25+00 to 27+00	165	130	1.30	0.24	0.80	0.24		
27+00 to 36+00	755	583	5.83	1.10	3.62	1.10		
36+00 to 38+00	166	130	1.30	0.24	0.80	0.24		
38+00 to 39+00	82	65	0.65	0.12	0.40	0.12		
39+00 to 54+00	1,212	937	9.37	2.35	7.76	2.35		
54+00 to 60+00	485	401	4.01	1.03	3.40	1.03		
60+00 to 61+50	111	93	0.93	0.23	0.77	0.23		
61+50 to 68+00	477	402	4.02	1.03	3.40	1.03		
Canyon Parking Lot	16							146
TOTALS	4,905	3,898	39.0	8.6	28.3	8.6	376	146

Values used for estimating purposes:
 Aggregate base . . . 139 LB/CUFT
 Asphalt concrete pavement . . . 145.2 LB/CUFT
 Antistrip . . . 1% of weight of mix
 Fog seal . . . 0.1 GAL/SQYD (233 GAL/TON)
 Prime coat . . . 0.33 GAL/SQYD (251 GAL/TON)
 Tack coat . . . 0.1 GAL/SQYD (233 GAL/TON)

Show bid schedule totals

When there is only one schedule show only "total"
 When there is more than one schedule or a schedule and option add additional language ("Schedule A", "Option X")

SURFACING SUMMARY

Show bid schedule, stationing, location, item number, description, pay unit, quantity, and remarks as appropriate

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Insert from spreadsheet
Scale = 1

DRAINAGE SUMMARY														
Pay Item Number				15215-3000	20301-1900	25101-0200	25101-0300	25101-0400	60103-0000	60201-0800	60201-1000	60210-0800	60210-1000	Remarks
Station	Side	Skew	Allowable Pipe Material	SURVEY AND STAKING, DRAINAGE STRUCTURE	REMOVAL OF PIPE CULVERT	PLACED RIPRAP, CLASS 2	PLACED RIPRAP, CLASS 3	PLACED RIPRAP, CLASS 4	CONCRETE, HEADWALL	24-INCH PIPE CULVERT	36-INCH PIPE CULVERT	END SECTION FOR 24-INCH PIPE CULVERT	END SECTION FOR 36-INCH PIPE CULVERT	
				EACH	EACH	CUYD	CUYD	CUYD	EACH	LNFT	LNFT	EACH	EACH	
MAIN 01														
14+02		20°	CM	1	1	4				70		2		
15+24				1	1									
16+74		15°	CM	1	1	4				70		2		
24+61				1	1									
28+00				1		4				52		2		
33+20				1	1	4				64		2		
37+01				1				16			48		2	
37+22					1									
45+18				1	1									
48+43		5°		1	1	4				60		2		
65+26				1	1									
66+75		25°		1		4				54		2		
72+08				1	1									
81+68		27°				67			2					
84+76					1									
90+52		15°		1	1			16			76		2	
104+30	RT			1	2									Approach road APPR 01
106+19		5°		1	1			11						
113+10		11°							2					
116+30				1		4				10		1		Extend existing culvert
121+01		5°		1	1	4				50		2		
123+96		35°		1	1			13						
126+61				1	1				34					
130+75		24°		1	1	4				62		2		
TOTALS				20	19	102	55	34	4	492	124	17	4	

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Item number, description, supplemental description, and pay unit must match Masterworks estimate

When there is only one schedule show only "total"
When there is more than one schedule or a schedule and option add additional language ("Schedule A", "Option X")

Add allowable pipe material types
Leave blank if there are no specific requirements

Show bid schedule totals

- Allowable Pipe Material**
- A Aluminum
 - AS Aluminum steel
 - C Concrete
 - CM Corrugated metal
 - GS Galvanized steel
 - P Plastic
 - (blank) Any appropriate material
 - X/_ Any appropriate material except ___

DRAINAGE SUMMARY

CURB AND GUTTER SUMMARY				
Pay Item Number		60901-2300	60902-1000	
Station to Station	Side	CURB, ASPHALT, 6-INCH DEPTH	CURB AND GUTTER, CONCRETE, 12-INCH DEPTH	
		LNFT	LNFT	
MAIN 01				
101+00 to 101+47	LT	47		
101+00 to 106+07	RT	507		
102+23 to 104+48	LT	225		
105+08 to 106+07	LT	99		
108+40 to 108+56	RT	16		
APPR 05				
113+26 to 113+29	LT		23	
TOTALS		894	23	

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Insert from spreadsheet
Scale = 1

Item number, description, supplemental description, and pay unit must match Masterworks estimate.

SIDEWALK SUMMARY				
Pay Item Number		61001-0100	61001-0700	
Station to Station	Side	SIDEWALK, CONCRETE	SIDEWALK, DECOMPOSED GRANITE	
		SQYD	SQYD	
MAIN 01				
10+25 to 11+21	RT		125	
50+29 to 58+22	LT	840		
60+30 to 62+71	LT	270		
TOTALS		1,110	125	

Show bid schedule, stationing, location, item number, description, pay unit, quantity, and remarks as appropriate

Title added when more than one table is shown on the sheet
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GUARDRAIL SUMMARY						
Pay Item Number		20302-1200	61701-5150	61702-1500	61702-1600	
Station to Station	Side	REMOVAL OF GUARDRAIL	GUARDRAIL SYSTEM MGS, TYPE 4, CLASS B, WOOD POSTS	TERMINAL SYSTEM, TYPE MGS TANGENT	TERMINAL SYSTEM, TYPE MGS FLARED	
		LNFT	LNFT	EACH	EACH	
MAIN 01						
208+65 to 211+37	RT	272				
215+15 to 220+04	LT	489				
215+21 to 219+46	LT		375	1	1	
230+22 to 232+13	RT	191				
230+30 to 231+80	RT		100	2		
296+71 to 300+49	LT	378				
296+70 to 300+45	RT		325		2	
TOTALS		1,330	800	3	3	

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When there is only one schedule show only "total"
When there is more than one schedule or a schedule and option add additional language ("Schedule A", "Option X")

Option X shown within Schedule tables but can be shown in its own table and plan set. Discuss with project team

FENCE AND GATE SUMMARY						
Schedule/ Option	Pay Item Number		20302-0700	61901-0600	61902-0000	
	Station to Station	Side	REMOVAL OF FENCE	FENCE, BARBED WIRE	GATE	
			LNFT	LNFT	EACH	
MAIN 01						
A/B	193+92 to 194+28	RT	36			
A/B	193+92 to 194+34	RT		42		
A/B	194+31 to 194+84	LT	53			
A/B	194+34 to 194+84	LT		50		
A/B	268+92 to 269+84	LT	92			
A/B	268+95 to 269+90	LT		95		
A/B	350+45 to 351+00	RT	55			
A/B	350+50 to 351+00	RT		50		
SCHEDULE A & B TOTALS			236	237	0	
MAIN 01						
X	360+00 to 370+00	RT		1,000		
X	370+00	RT			1	
OPTION X TOTALS			0	1,000	1	

Show bid schedule totals

MISCELLANEOUS SUMMARIES

Title added when more than one table is shown on the sheet
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Insert from spreadsheet
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Show bid schedule, stationing, location, item number, description, pay unit, quantity, and remarks as appropriate

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TURF ESTABLISHMENT SUMMARY				
Pay Item Number		62510-2000	62515-2000	
Schedule	Station to Station	SEEDING, HYDRAULIC METHOD	MULCHING, HYDRAULIC METHOD	
		ACRE	ACRE	
MAIN 01				
A/B	10+00 to 250+00	18	18	
SCHEDULE A TOTALS		18	18	
MAIN 01				
B	250+00 to 445+00	12	12	
SCHEDULE B TOTALS		30	30	

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Show bid schedule totals

When there is only one schedule show only "total"
When there is more than one schedule or a schedule and option add additional language ("Schedule A", "Option X")

Item number, description, supplemental description, and pay unit must match Masterworks estimate.

FACILITY CONSTRUCTION SUMMARY						
Pay Item Number		64603-0500	64603-0800	64603-1000	64603-1500	
Station to Station	Side	FIXTURE, BICYCLE STORAGE RACK	FIXTURE, KIOSK	FIXTURE, VAULT TOILET	FIXTURE, SHELTER	
		EACH	EACH	EACH	EACH	
MAIN 01						
20+00	RT	1				
54+00	LT	1				
Canyon Parking Lot		2	1	1	1	
TOTALS		4	1	1	1	

MISCELLANEOUS SUMMARIES

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Show bid schedule, stationing, location, item number, description, pay unit, quantity, and remarks as appropriate

Insert from spreadsheet Scale = 1

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PERMANENT SIGN SUMMARY										
Schedule	Station	Side	MUTCD Reference	Description	Pay Item Number	20301-2400	63301-0000	63308-0000	63316-1000	Remarks
					Sign Panel	REMOVAL OF SIGN	SIGN SYSTEM	OBJECT MARKER	REMOVE AND RESET SIGN SYSTEM	
					in x in	EACH	EACH	EACH	EACH	
MAIN 01										
A/B	10+14	LT	OM3L	Object Marker Type 3	12 x 36			1		
A/B	10+14	RT	OM3R	Object Marker Type 3	12 x 36			1		
A/B	10+65	RT	R2-1	Speed Limit	24 x 30		1			40 mph
A/B	11+50	LT	Special 1	Cattle Guard	30 x 30		1			
A/B	11+95	LT	W11-1	Bicycle	30 x 30		1			
			W16-7PL	Left Diagonal Downward Arrow (plaque)	21 x 15					
A/B	18+25	RT	R2-1	Speed Limit	24 x 30		1			
A/B	26+00	RT	W1-2L	Curve Left	30 x 30	1	1			
A/B	44+00	LT	W1-2R	Curve Right	30 x 30		1			
A/B	50+88	RT	W1-2R	Curve Right	30 x 30		1			
A/B	60+32	LT	W1-2L	Curve Left	30 x 30		1			
A/B	192+50	LT	W11-1	Bicycle	30 x 30		1			
			W16-1P	In Road (plaque)	18 x 12					
A/B	196+75	RT	Special 2	Half Moon Lake				1		
A/B	213+79	RT	W1-1R	Turn Right	30 x 30		1			
			W13-1P	Advisory Speed (plaque)	18 x 18				20 mph	
A/B	224+00	LT	W1-1L	Turn Left	30 x 30		1			
			W13-1P	Advisory Speed (plaque)	18 x 18				20 mph	
SCHEDULE A TOTALS						1	11	2	1	
MAIN 01										
B	280+60	LT	W1-5L	Winding Road Left	30 x 30		1			
B	300+00	RT	W1-5R	Winding Road Right	30 x 30		1			
B	333+25	LT	W8-23	No Shoulder	36 x 36	1				
B	345+70	RT	W1-2L	Curve Left	30 x 30		1			
B	359+00	RT	W1-4L	Left Reverse Curve	30 x 30		1			
B	359+50	LT	W1-2R	Curve Right	30 x 30		1			
B	364+30	LT	W1-2R	Curve Right	30 x 30		1			
SCHEDULE B TOTALS						2	17	2	1	

Item number, description, supplemental description, and pay unit must match Masterworks estimate

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When there is only one schedule show only "total"
When there is more than one schedule or a schedule and option add additional language ("Schedule A", "Option X")

Show bid schedule totals

PERMANENT TRAFFIC CONTROL SUMMARIES

Information and pay items shown are for illustration purposes only, and is not an exact representation of a project. To determine applicable pay items refer to division estimating documentation.

Show bid schedule, stationing, location, item number, description, pay unit, quantity, and remarks as appropriate

Title added when more than one table is shown on the sheet
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Insert from spreadsheet
Scale = 1

PERMANENT PAVEMENT MARKINGS SUMMARY											
		Pay Item Number								63401-0300	63401-0400
Station to Station	Side	LEFT				RIGHT				PAVEMENT MARKINGS, TYPE B, SOLID	PAVEMENT MARKINGS, TYPE B, BROKEN
		Edge Solid White 6 inches	Centerline Solid Yellow 4 inches	Centerline Broken Yellow 4 inches	Centerline Broken Yellow 4 inches	Centerline Broken Yellow 4 inches	Centerline Solid Yellow 4 inches	Edge Solid White 6 inches	Stop Bar Solid White 24 inches		
		LNFT	LNFT	LNFT	LNFT	LNFT	LNFT	LNFT	LNFT		
MAIN 01											
10+00	to 25+00	1,500	1,500				1,500	1,500	10	15,120	
25+00	to 26+00	100		100			100			500	200
26+00	to 27+54	154			154			154		924	308
TOTALS										16,544	508

Item number, description, supplemental description, and pay unit must match Masterworks estimate

Note: Apply and measure pavement markings according to Section 634.

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Show bid schedule totals

Templates spreadsheets have been created for all tables and are located at <https://highways.dot.gov/federal-lands/design/plan-prep/templates>

Insert from spreadsheet
Scale = 1

Title added when more than
one table is shown on the sheet
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TEMPORARY TRAFFIC CONTROL SUMMARY											
Pay Item Number		63501-1000	63502-0500	63502-0600	63502-1050	63502-1600	63502-2000	63503-1000	63505-1000	63506-0500	63506-0600
Schedule	Station to Station	TEMPORARY TRAFFIC CONTROL, TRAFFIC CONTROL SUPERVISOR	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 2	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 3	TEMPORARY TRAFFIC CONTROL, TUBULAR MARKER	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE B	TEMPORARY TRAFFIC CONTROL, PORTABLE CHANGEABLE MESSAGE SIGN	TEMPORARY TRAFFIC CONTROL, PLASTIC FENCE	TEMPORARY TRAFFIC CONTROL, PAVEMENT MARKINGS	TEMPORARY TRAFFIC CONTROL, FLAGGER	TEMPORARY TRAFFIC CONTROL, PILOT CAR
		LPSM	EACH	EACH	EACH	EACH	EACH	LNFT	MILE	HOUR	HOUR
MAIN 01											
A/B	819+00 to 940+00	ALL		10	200	10	4	2,000	9.2	7,000	2,500
SCHEDULE A TOTALS		ALL	0	10	200	10	4	2,000	9.2	7,000	2,500
MAIN 01											
B	891+00 to 1010+70	ALL		10	275	10	4	2,000	14.5	8,000	3,000
B	1010+70 to 1011+00		2								
SCHEDULE B TOTALS		ALL	2	20	475	20	8	4,000	23.7	15,000	5,500

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Show bid schedule, stationing, location, item number, description, pay unit, quantity, and remarks as appropriate

When there is only one schedule show only "total"
When there is more than one schedule or a schedule and option add additional language ("Schedule A", "Option X")

Show bid schedule totals

CONSTRUCTION SIGN SUMMARY					
Pay Item Number					63504-1000
Schedule	MUTCD Reference	Description	Sign Panel	Quantity	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN
			in x in		SQFT
A/B	G20-1	Road Work Next XX Miles	36 x 18	6	27
A/B	G20-2	End Road Work	36 x 18	2	9
A/B	G20-4	Pilot Car Follow Me	36 x 18	1	5
A/B	R4-1	Do Not Pass	24 x 30	4	20
A/B	R4-2	Pass With Care	24 x 30	4	20
A/B	W3-4	Be Prepared to Stop	36 x 36	4	36
A/B	W5-1	Road Narrows	36 x 36	4	36
A/B	W8-12	No Center Line	36 x 36	4	36
A/B	W13-1P	Advisory Speed (plaque)	18 x 18	4	9
A/B	W16-2P	XX Feet (plaque)	24 x 18	4	12
A/B	W20-1	Road Work Ahead	36 x 36	7	63
A/B	W20-3	Road Closed Ahead	36 x 36	6	54
A/B	W20-4	One Lane Road Ahead	36 x 36	4	36
A/B	W20-7	Flagger (symbol)	36 x 36	4	36
A/B	W21-5	Shoulder Work	36 x 36	4	36
SCHEDULE A/B TOTAL					435

Item number, description, supplemental description, and pay unit must match Masterworks estimate

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TEMPORARY TRAFFIC CONTROL SUMMARIES