



WFL Sample Plan Sheets

B Sheets

Summary of Quantities

Revised: December 2025

GENERAL

The Sample Plans provides two examples showing how to present the **Summary of Quantities** (SOQ) sheets:

- *Example 1* represents a typical linear project, i.e., where all or most of the work occurs along the roadway or trail, from point A to point B.
- *Example 2* represents a site project, i.e., where work occurs at sites within the project limits, but not throughout the entire project route. ERFO projects often have site repairs associated with each Damage Survey Report (DSR). The column headings on the Summary of Quantities plan sheets must match the sites in the DSR as this enables the project cost and funding to be tracked by site.

Item numbers, descriptions, and units are only shown as examples of how and what to include. For each project, the Designer will need to include the information applicable to the project. These sheets are created from a spreadsheet from information received from Masterworks.

Column Width

Resize the columns to fit as necessary to optimize the space and ensure that no information is cut off.

Sheet Title

If there is only one schedule for the project and no options, (i.e., no schedules, no options) do NOT include anything in the title other than the words "SUMMARY OF QUANTITIES."

Example: SUMMARY OF QUANTITIES

If there is only one schedule, but the project includes options, title each base schedule sheet and each option sheet as follows:

Example: SUMMARY OF QUANTITIES – Base
SUMMARY OF QUANTITIES – Option X

If there are multiple schedules for the project, each page title should include the schedule name.

Example: SUMMARY OF QUANTITIES – Schedule A

SUMMARY OF QUANTITIES – Schedule B

NPS Information

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 into the Summary of Quantities spreadsheet.

Line Item Number

As noted in the [Masterworks User Guide](#), use 20 (i.e., A0020, A0040, A0060, etc.) for the line item interval unless the project has a lot of bid items, in which case use 10.

Column Headings

For all projects, title the first five columns as shown in the sample plans – Amend, Line Item No., Pay Item Number, Pay Item Description and Unit. Do not change these column headings.

For linear-type project, group the Sheet and Description columns by plan sheet section. Only list the sheet section label (i.e., D, E, etc.). Do not list sheet numbers (i.e., D1 – D10) and do not include “SECTION.”

Example:

D	E
PLAN-PROFILE	APPROACH ROADS AND PARKING AREAS

For site-type projects, group the Sheet and Description columns by the site. Only list the sheet section label (i.e., D, E, etc.). Do not list sheet numbers (i.e., D1 – D10) and do not include “SECTION.” Also, do not include the road name, i.e. Stratton Creek, Sardine Ridge, etc.

Example:

D	E	F
Road 39 MP 3.14	Road 32 MP 1.7	Road 33 MP 3.3

Item Names

Bid item names will be generated in Masterworks. Be sure to include supplemental descriptions in Masterworks as necessary. Examples:

- Item 40101 needs to include the roughness type — ASPHALT CONCRETE PAVEMENT, GYRATORY MIX, ½-INCH OR ¾ INCH NOMINAL MAXIMUM SIZE AGGREGATE, .0.3 TO <3 MILLION ESAL (TYPE III ROUGHNESS).
- Item 60901-0000 include the finish type — CURB, CONCRETE (LOG FINISH)

Quantities

The decimal accuracy in the SOQ must match the accuracy in the Quantity Tabulation sheets and the estimate. Rounding guidance is provided in [WFL Estimating Handbook](#).

Allowance

See the [WFL Estimating Handbook](#) for guidance on allowances.

Do not include an allowance for Contract Quantity, Contingent Sum (CTSM), and Lump Sum (LPSM) items.

Remarks Column

Use the “Remarks and/or Determination of Estimated Quantity” column as follows:

- Enter CONTRACT QUANTITY if an item is measured as a contract quantity

Do not use this column for conversion factors, unit weights, etc. That information should be presented on the quantity tabulation sheets at the beginning of the D sheets, E sheets, etc.

Example 1				SUMMARY OF QUANTITIES - Schedule A													PROJECT		SHEET
																	WY NPS YELL 12(2)		B.1
A M E N D	Line Item No.	Pay Item Number	Pay Item Description	Unit	Sheet and Description												Estimated Quantities	Remarks and/or Determination of Estimated Quantity	
					SECTION D	SECTION E	SECTION F	SECTION H	SECTION I	SECTION J	SECTION K	SECTION M	SECTION N	SECTION O	SECTION P		Bid Schedule		
					PLAN - PROFILE	APPROACH ROADS AND PARKING AREAS	SOIL EROSION AND SEDIMENT CONTROL	DRAINAGE	ROADSIDE FEATURES	SAFETY FEATURES	UTILITIES	LANDSCAPING AND REVEGETATION/ RESTORATION	TEMPORARY TRAFFIC CONTROL	PERMANENT TRAFFIC CONTROL	STRUCTURES	ALLOWANCE			
	A0020	15101-0000	MOBILIZATION	LPSM													ALL		
	A0040	15201-0000	CONSTRUCTION SURVEY AND STAKING	LPSM													ALL		
	A0060	15301-0010	CONTRACTOR QUALITY CONTROL AND ASSURANCE	LPSM													ALL		
	A0080	15401-0000	CONTRACTOR TESTING	LPSM													ALL		
	A0100	15501-0000	CONSTRUCTION SCHEDULE	LPSM													ALL		
	A0120	15701-0000	SOIL EROSION CONTROL	LPSM			All										ALL		
	A0140	15802-0000	WATERING FOR DUST CONTROL	LPSM													ALL		
	A0160	20101-0000	CLEARING AND GRUBBING	ACRE	22.23	10.12										1.05	33.4		
	A0180	20301-1900	REMOVAL OF PIPE CULVERT	EACH				14									14		
	A0200	20301-2000	REMOVAL OF PIPE END SECTION	EACH				12									12		
	A0220	20301-2400	REMOVAL OF SIGN	EACH										41			41		
	A0240	20304-2000	REMOVAL OF BRIDGE	LPSM											All		ALL		
	A0260	20401-0000	ROADWAY EXCAVATION	CUYD	25,301	14,096											39,397	Contract Quantity	
	A0280	20402-0000	SUBEXCAVATION	CUYD	1,360	270										170	1,800		
	A0300	20403-0000	UNCLASSIFIED BORROW	CUYD	471											29	500		
	A0320	20410-0000	SELECT BORROW	CUYD	11,498	735										767	13,000		
	A0340	20466-0000	CONSERVE AND STOCKPILE TOPSOIL	CUYD	2,475	1,873										252	4,600		
	A0360	21101-1000	ROADWAY OBLITERATION, METHOD 1	SQYD	11,637											1,363	13,000		
	A0380	25101-0200	PLACED RIPRAP, METHOD A, CLASS 2	CUYD				23								2	25		
	A0400	25101-0400	PLACED RIPRAP, METHOD A, CLASS 4	CUYD				34								6	40		
	A0420	25101-2200	PLACED RIPRAP, METHOD B, CLASS 2	CUYD				8								2	10		
	A0440	25125-0000	BOULDER	EACH		35										20	55		
	A0460	25210-0000	ROCKERY	SQFT		1,305										145	1,450		
	A0480	25501-0000	MECHANICALLY STABILIZED EARTH WALL	SQFT	650											50	700		
	A0500	30103-2000	AGGREGATE BASE GRADING D	CUYD	3,346											154	3,500		
	A0520	30201-2000	ROADWAY AGGREGATE, METHOD 2	CUYD		3,550										150	3,700		
	A0540	30303-3000	ROADWAY RECONDITIONING	SQYD		1,243										107	1,350		
	A0560	40101-5600	ASPHALT CONCRETE PAVEMENT, GYRATORY MIX, 1/2-INCH OR 3/4-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL, (TYPE III ROUGHNESS)	TON	5,480	1,446										174	7,100		
	A0580	40105-3000	ANTISTRIP ADDITIVE, TYPE 3	TON	55	14										6	75		
	A0600	40601-0000	FOG SEAL	TON	11	1										1	13		
	A0620	40605-0000	BLOTTER	TON	195	65										25	285		
	A0640	40801-0000	COLD RECYCLED ASPHALT BASE COURSE	TON	6,204											296	6,500		
	A0660	40807-0000	LIME	TON	63											7	70		
	A0680	41201-0000	TACK COAT	TON	11.0	1.0										1.0	13.0		
	A0700	41301-0600	ASPHALT PAVEMENT MILLING, 2-INCH DEPTH													476	21,000		
MileStone: 70% Date Completed: In Progress Report Date: 03/25/21																			

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SUMMARY OF QUANTITIES - Schedule A																	PROJECT		SHEET
																	WY NPS YELL 12(2)		NUMBER
																			B.2
A M E N D	Line Item No.	Pay Item Number	Pay Item Description	Unit	Sheet and Description												Estimated Quantities	Remarks and/or Determination of Estimated Quantity	
					SECTION D	SECTION E	SECTION F	SECTION H	SECTION I	SECTION J	SECTION K	SECTION M	SECTION N	SECTION O	SECTION P				
					PLAN - PROFILE	APPROACH ROADS AND PARKING AREAS	SOIL EROSION AND SEDIMENT CONTROL	DRAINAGE	ROADSIDE FEATURES	SAFETY FEATURES	UTILITIES	LANDSCAPING AND REVEGETATION/ RESTORATION	TEMPORARY TRAFFIC CONTROL	PERMANENT TRAFFIC CONTROL	STRUCTURES	ALLOWANCE	Bid Schedule		
	A0720	41301-1400	ASPHALT PAVEMENT MILLING, 8-INCH DEPTH	SQYD	9,260											740	10,000		
	A0740	55201-0200	STRUCTURAL CONCRETE, CLASS A (AE)	CUYD											3788		3788		
	A0760	55235-0000	EXPANSION JOINTS	LNFT											62		62		
	A0780	55401-1000	REINFORCING STEEL	LB											972,286	27,714	1,000,000		
	A0800	55502-0000	STRUCTURAL STEEL, FURNISHED, FABRICATED, AND ERECTED (50ksi)	LB											4,800,000		4,800,000		
	A0820	55601-0900	BRIDGE RAILING, STEEL	LNFT											2,468		2,468		
	A0840	56202-0000	TEMPORARY SUPPORT STRUCTURE (WORK BRIDGE)	LPSM											All		ALL		
	A0860	56401-0000	BEARING DEVICE (LEAD-RUBBER ISOLATION BEARING)	EACH											25		25		
	A0880	56501-0600	DRILLED SHAFT, 48-INCH DIAMETER	LNFT											838	42	880		
	A0900	57402-0000	GRS-IBS, OPEN-GRADED BACKFILL	TON											700	35	735		
	A0920	60201-0800	24-INCH PIPE CULVERT	LNFT				634								36	670		
	A0940	60201-1000	36-INCH PIPE CULVERT	LNFT				79								1	80		
	A0960	60202-0700	42-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	LNFT				167								13	180		
	A0980	60210-0400	END SECTION FOR 12-INCH PIPE CULVERT	EACH				1									1		
	A1000	60210-0600	END SECTION FOR 18-INCH PIPE CULVERT	EACH				1									1		
	A1020	60210-0800	END SECTION FOR 24-INCH PIPE CULVERT	EACH				14									14		
	A1040	60210-1000	END SECTION FOR 36-INCH PIPE CULVERT	EACH				2									2		
	A1060	60211-1100	END SECTION FOR 42-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	EACH				2									2		
	A1080	60403-1200	INLET, FLH TYPE 5A	EACH				2									2		
	A1100	60404-1000	CATCH BASIN, FLH TYPE 1	EACH				2									2		
	A1120	60409-0200	INLET TOP, METAL FRAME AND GRATE, FLH TYPE B	EACH				2									2		
	A1140	60409-0600	INLET TOP, METAL FRAME AND GRATE, FLH TYPE 5	EACH				2									2		
	A1160	60413-0000	TRENCH DRAIN	LNFT				20									20		
	A1180	60901-0000	CURB, CONCRETE (LOG FINISH)	LNFT		1,401										149	1,550		
	A1200	60901-3500	CURB, STONE, TYPE 1, 12-INCH DEPTH	LNFT	714											71	785		
	A1220	60901-7000	CURB, LOG	LNFT		233										22	255		
	A1240	60905-1000	GUTTER, CONCRETE	LNFT		152										8	160		
	A1260	61501-0100	SIDEWALK, CONCRETE (CROSSWALK, STAMPED EDGE)	SQYD	94											6	100		
	A1280	61501-0900	SIDEWALK, STONE (STAIRS)	SQYD		15										5	20		
	A1300	61501-1100	SIDEWALK, ASPHALT	SQYD	420	1,592										38	2,050		
MileStone: 70% Date Completed: In Progress Report Date: 03/25/21																			

PROJECT	SHEET NUMBER
WY NPS YELL 12(2)	B.2

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SUMMARY OF QUANTITIES - Schedule A

PROJECT

WY NPS YELL 12(2)

SHEET NUMBER

B.4

A M E N D	Line Item No.	Pay Item Number	Pay Item Description	Unit	Sheet and Description												Estimated Quantities	Remarks and/or Determination of Estimated Quantity
					SECTION D	SECTION E	SECTION F	SECTION H	SECTION I	SECTION J	SECTION K	SECTION M	SECTION N	SECTION O	SECTION P			
					PLAN - PROFILE	APPROACH ROADS AND PARKING AREAS	SOIL EROSION AND SEDIMENT CONTROL	DRAINAGE	ROADSIDE FEATURES	SAFETY FEATURES	UTILITIES	LANDSCAPING AND REVEGETATION/ RESTORATION	TEMPORARY TRAFFIC CONTROL	PERMANENT TRAFFIC CONTROL	STRUCTURES	ALLOWANCE	Bid Schedule	
	A1840	63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN	SQFT									458			42	500	
	A1860	63505-1500	TEMPORARY TRAFFIC CONTROL, VEHICLE POSITIONING GUIDES	MILE									2.8			0.2	3.0	
	A1880	63506-0500	TEMPORARY TRAFFIC CONTROL, FLAGGER	HOURL									1,150				1,150	
	A1900	63506-0600	TEMPORARY TRAFFIC CONTROL, PILOT CAR	HOURL									480				480	
	A1920	63507-0700	TEMPORARY TRAFFIC CONTROL, TRAFFIC CONTROL SUPERVISOR	DAY									60				60	
	A1940	63610-4300	CONDUIT, 12-INCH, FIBERGLASS	LNFT				2,062								108	2,170	
	A1960	63610-4310	CONDUIT, 12-INCH, HDPE	LNFT				85								5	90	
	A1980	64603-0700	FIXTURE, PICNIC TABLE (GOVERNMENT PROVIDED)	EACH		25											25	
	A2000	64603-0800	FIXTURE, KIOSK	EACH		3											3	
	A2020	64603-1000	FIXTURE, VAULT TOILET	EACH		4											4	
	A2040	64604-3000	FIXTURE, PEDESTRIAN RAILING (TYPE 1)	LNFT		140										10	150	
	A2060	64604-3000	FIXTURE, PEDESTRIAN RAILING (TYPE 2)	LNFT		100											100	
	A2080	64604-3000	FIXTURE, PEDESTRIAN RAILING (Type 3)	LNFT		150											150	
	A2100	64702-1000	MITIGATION, LANDSCAPING LOG	LNFT		150										20	170	

Example 2 SUMMARY OF QUANTITIES																	PROJECT	SHEET NUMBER
																	WA FS ERFO 2018(1)-23(1)	B.1
A M E N D	Line Item No.	Pay Item Number	Pay Item Description	Unit	Sheet and Description											Estimated Quantities	Remarks and/or Determination of Estimated Quantity	
					SECTION D	SECTION E	SECTION F	SECTION G	SECTION H	SECTION I	SECTION J	SECTION K	SECTION L	SECTION M				
					Road 39 MP 3.14	Road 32 MP 1.7	Road 33 MP 3.3	Road 35-3W MP 0.54	Road 35-3W MP 0.94	Road 35-3W MP 1.65	Road 35-7W MP 0.90	Road 34-7W MP 0.28	Road 35-7W MP 0.63	Road 35-7W MP 2.85	ALLOWANCE	Bid Schedule		
	A0020	15101-0000	MOBILIZATION	LPSM												ALL		
	A0040	15201-0000	CONSTRUCTION SURVEY AND STAKING	LPSM												ALL		
	A0060	15301-0010	CONTRACTOR QUALITY CONTROL AND ASSURANCE	LPSM												ALL		
	A0080	15401-0000	CONTRACTOR TESTING	LPSM												ALL		
	A0100	15501-0000	CONSTRUCTION SCHEDULE	LPSM												ALL		
	A0120	15702-6000	SOIL EROSION CONTROL, TEMPORARY STREAM DIVERSION	LPSM												ALL		
	A0140	15705-0100	SOIL EROSION CONTROL, SILT FENCE	LNFT	105	260	100	800	105	80	145		78		127	1,800		
	A0160	15705-1400	SOIL EROSION CONTROL, FIBER ROLL	LNFT	155				80			290		200	75	800		
	A0180	20301-1900	REMOVAL OF PIPE CULVERT	EACH		2	1	1		1			1	1		7		
	A0200	20304-9000	REMOVAL OF STREAM DEBRIS	LPSM				All								ALL		
	A0220	20401-0000	ROADWAY EXCAVATION	CUYD	202				286			206		243		937	Contract Quantity	
	A0240	20410-0000	SELECT BORROW	CUYD	57	188	350	102	30	10	97	42	430		129	1,435		
	A0260	20435-1000	BACKFILL, SELECT GRANULAR	CUYD					182						18	200		
	A0280	20701-0100	SEPARATION-STABILIZATION GEOTEXTILE, CLASS 1, TYPE A (NON-WOVEN)	SQYD				374			299	409		174	124	1,380		
	A0300	20702-0300	GEOTEXTILE FILTER, CLASS 1, TYPE C (NON-WOVEN)	SQYD	172			89						89	35	385		
	A0320	25101-0200	PLACED RIPRAP, METHOD A, CLASS 2 (DRIVABLE DIP)	CUYD				128			107	221		87	47	590		
	A0340	25101-0300	PLACED RIPRAP, METHOD A, CLASS 3 (RIPRAP END PROTECTION)	CUYD		215	77			77			152		49	570		
	A0360	25120-0200	RIPRAP DITCH, METHOD A, CLASS 2	LNFT		120									10	130		
	A0380	25201-1000	SPECIAL ROCK EMBANKMENT, MECHANICALLY-PLACED	CUYD	354									111	45	510		
	A0400	25301-0000	GABIONS	SQFT					513						22	535		
	A0420	30201-2000	ROADWAY AGGREGATE, METHOD 2	CUYD	83	37	52	72	29	30	256	81	17	52	36	745		
	A0440	30302-1000	DITCH RECONDITIONING	LNFT			175	240							20	435		
	A0460	60201-1000	36-INCH PIPE CULVERT	LNFT		40										40		
	A0480	60201-1200	48-INCH PIPE CULVERT	LNFT		40	48			42						130		
	A0500	60201-1800	84-INCH PIPE CULVERT	LNFT									76			76		
	A0520	60704-0000	CLEANING CULVERT IN PLACE	EACH				2	1						1	4		
	A0540	62201-0250	DUMP TRUCK, 10 CUBIC YARD MINIMUM CAPACITY	HOURL											40	40		
	A0560	62201-0700	BACKHOE LOADER, 1 CUBIC YARD MINIMUM CAPACITY FRONTEND BUCKET, 10 CUBIC FOOT MINIMUM CAPACITY BACKHOE BUCKET, 90 HP MINIMUM FLYWHEEL	HOURL											40	40		
	A0580	62201-3350	HYDRAULIC EXCAVATOR, 1 CUBIC YARD MINIMUM CAPACITY	HOURL											40	40		
	A0600	62301-0000	GENERAL LABOR	HOURL											40	40		
	A0620	62502-0000	TURF ESTABLISHMENT	SQYD	42	28	12	163	74	81		105	114	8	33	660		
	A0640	63501-0000	TEMPORARY TRAFFIC CONTROL	LPSM												ALL		
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