

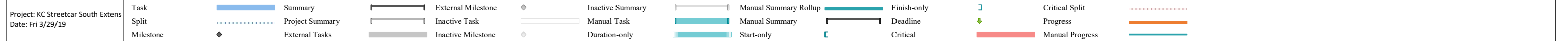
ID	Task Mode	Task Name	Duration	% Complete	Start	Finish	Predecessors	Successors	16	2018		2020		2022		2024	
									H1	H1	H1	H1	H1	H1	H1		
255		Owner Review of submittal	15 days	0%	Fri 10/2/20	Thu 10/22/20	254	256									
256		Owner provides comments on plans and specs	0 days	0%	Thu 10/22/20	Thu 10/22/20	255	258									
257		VMF 60% Final submittal review package	75 days	0%	Fri 10/23/20	Wed 2/10/21											
258		Owner/Designer Comment Resolution	2 days	0%	Fri 10/23/20	Mon 10/26/20	256	259									
259		Revise drawings per resolution	22 days	0%	Tue 10/27/20	Wed 11/25/20	258	260									
260		Finalize and Produce Drawings	6 days	0%	Mon 11/30/20	Mon 12/7/20	259	261									
261		Submit 60% Final drawings to owner	0 days	0%	Mon 12/7/20	Mon 12/7/20	260	262									
262		Owner/Contractor Review of submittal	40 days	0%	Tue 12/8/20	Wed 2/3/21	261	263									
263		Owner/Contractor provides comments on plans	5 days	0%	Thu 2/4/21	Wed 2/10/21	262	265									
264		VMF 100% submittal review package	63 days	0%	Wed 2/10/21	Mon 5/10/21											
265		Owner/Contractor/Designer Comment Resolution	0 days	0%	Wed 2/10/21	Wed 2/10/21	263,304	266									
266		Prepare drawings and specifications	30 days	0%	Thu 2/11/21	Wed 3/24/21	265	267									
267		QC drawings and specifications	5 days	0%	Thu 3/25/21	Wed 3/31/21	266	268,278									
268		Finalize and Produce Drawings and Specifications	10 days	0%	Thu 4/1/21	Wed 4/14/21	267	269									
269		Submit drawings and specifications to owner	0 days	0%	Wed 4/14/21	Wed 4/14/21	268	270,365									
270		Owner / Contractor Review of submittal	18 days	0%	Thu 4/15/21	Mon 5/10/21	269	271									
271		Owner provides comments on plans and specs	0 days	0%	Mon 5/10/21	Mon 5/10/21	270	273									
272		VMF IFC submittal review package	108 days	0%	Tue 5/11/21	Tue 10/12/21											
273		Owner/Contractor/Designer Comment Resolution Meeting	1 day	0%	Tue 5/11/21	Tue 5/11/21	271	274									
274		Make final revisions to plans	41 days	0%	Wed 5/12/21	Fri 7/9/21	273	275									
275		QC drawings and specifications	8 days	0%	Mon 7/12/21	Wed 7/21/21	274	276									
276		Designer prints and Signs Drawings	1 day	0%	Thu 7/22/21	Thu 7/22/21	275	277									
277		Issue plans for construction	1 day	0%	Tue 10/12/21	Tue 10/12/21	276,278	280,283									
278		VMF Design Contingency	60 days	0%	Mon 7/19/21	Mon 10/11/21	267,220	277,240,409									
279		Public Engagement	1264 days	0%	Mon 3/4/19	Mon 2/12/24											
280		Stakeholder Meetings	599 days	0%	Wed 10/13/21	Mon 2/12/24	277										
281		Public Meetings	1113 days	0%	Mon 3/4/19	Fri 7/14/23											
282		Project Development Update Meetings	215 days	0%	Mon 3/4/19	Tue 1/7/20											
283		Final Design Update Meetings	200 days	0%	Wed 10/13/21	Wed 7/27/22	277										
284		Construction Update Meetings	518 days	0%	Tue 7/6/21	Fri 7/14/23											
285		Full Funding Grant Agreement	255 days	0%	Tue 2/11/20	Wed 2/10/21											
286		Prepare Scope, Cost and Schedule Submittal for PMOC	22 days	0%	Tue 2/11/20	Wed 3/11/20	129	287									
287		FTA Review of Scope, Cost, Schedule	22 days	0%	Thu 3/12/20	Fri 4/10/20	286	288									
288		PMOC Conduct Risk Assessment Workshop	3 days	0%	Mon 4/13/20	Wed 4/15/20	287	289									
289		PMOC Prepare Draft Risk Assessment Report	22 days	0%	Thu 4/16/20	Fri 5/15/20	288	290									
290		Draft Risk Assessment Report from PMOC	0 days	0%	Fri 5/15/20	Fri 5/15/20	289	291									
291		PMOC Prepare Final Risk Assessment Report	22 days	0%	Mon 5/18/20	Wed 6/17/20	290	292									
292		Final Risk Assessment Report from PMOC	1 day	0%	Thu 6/18/20	Thu 6/18/20	291	293									
293		PMOC Prepare Draft Readiness Report	22 days	0%	Fri 6/19/20	Tue 7/21/20	292	294									
294		Draft Readiness Report from PMOC	0 days	0%	Tue 7/21/20	Tue 7/21/20	293	295									
295		PMOC Finalize Readiness Report	15 days	0%	Wed 7/22/20	Tue 8/11/20	294,126	296									
296		Final Readiness Report from PMOC	0 days	0%	Tue 8/11/20	Tue 8/11/20	295	297									
297		Preparation for Full Funding Grant Agreement Package	30 days	0%	Wed 8/12/20	Wed 9/23/20	296	298									
298		Submittal of draft grant to TrAMS	0 days	0%	Wed 9/23/20	Wed 9/23/20	297	299									
299		FTA approval package preparation and sign-off	22 days	0%	Thu 9/24/20	Fri 10/23/20	298	300									
300		Department of Labor Certification	22 days	0%	Mon 10/26/20	Tue 11/24/20	299	301									
301		Executive Branch Review of Grant Agreement	22 days	0%	Wed 11/25/20	Tue 12/29/20	300	302									
302		Full Funding Grant Agreement Package to Congress for 10-day notification	10 days	0%	Wed 12/30/20	Wed 1/13/21	301	303									
303		Full Funding Grant Agreement Execution	0 days	0%	Wed 1/13/21	Wed 1/13/21	302	164FF,304,6									
304		FFGA Contingency	20 days	0%	Thu 1/14/21	Wed 2/10/21	303	386,394,400,409,6FF,310,									
305		Procurements (Vehicle, ROW & Long Lead Items)	1267 days	0%	Thu 6/20/19	Mon 6/3/24											
306		Vehicle Procurement & Testing	1267 days	0%	Thu 6/20/19	Mon 6/3/24											
307		Develop RFP	160 days	0%	Thu 6/20/19	Thu 2/6/20	143	308									
308		Release RFP	80 days	0%	Fri 2/7/20	Fri 5/29/20	307	310,309									
309		Evaluate RFP (Buy America Audit, Protest Resolution)	125 days	0%	Mon 6/1/20	Tue 11/24/20	308	310									
310		Notice to Proceed	0 days	0%	Wed 2/10/21	Wed 2/10/21	308,309,304	311,5FF									
311		Initial Submittals	100 days	0%	Thu 2/11/21	Thu 7/1/21	310	312									
312		Preliminary Design Review of Major Subsystems	100 days	0%	Fri 7/2/21	Mon 11/22/21	311	313									
313		Final Design Review of Major Subsystems	30 days	0%	Tue 11/23/21	Fri 1/7/22	312	314									
314		First Article Inspection of Major Subsystems	45 days	0%	Mon 1/10/22	Fri 3/11/22	313	315									
315		Type Testing	65 days	0%	Mon 3/14/22	Mon 6/13/22	314	316									
316		First Article Inspection of Completed Vehicle	254 days	0%	Tue 6/14/22	Fri 6/9/23	315	318									
317		Delivery of Final Draft of Manuals	0 days	0%	Wed 10/18/23	Wed 10/18/23	327										
318		Final Inspections of Vehicle	5 days	0%	Mon 6/12/23	Fri 6/16/23	316	319,327									
319		Vehicle Transport	10 days	0%	Mon 6/19/23	Fri 6/30/23	318	320									

Project: KC Streetcar South Extens Date: Fri 3/29/19

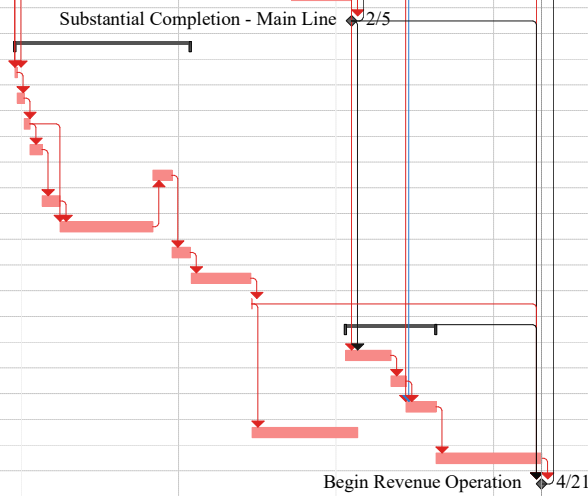
Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Critical Split	Progress
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Deadline	Manual Progress	
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Critical		

KANSAS CITY STREETCAR SOUTH EXTENSION PROJECT - MASTER SCHEDULE

ID	Task Mode	Task Name	Duration	% Complete	Start	Finish	Predecessors	Successors	16	2018	2020	2022	2024
									H1	H1	H1	H1	H1
320	Task	Delivery of First Vehicle	29 days	0%	Mon 7/3/23	Thu 8/10/23	319	328,326,330SS,331SS,321					
321	Task	Delivery of Second Vehicle **Key**	25 days	0%	Wed 8/16/23	Tue 9/19/23	320FS+3 days	322,332					
322	Task	Delivery of Third Vehicle	24 days	0%	Wed 9/20/23	Mon 10/23/23	321	323					
323	Task	Delivery of Fourth Vehicle	25 days	0%	Tue 10/24/23	Mon 11/27/23	322	324					
324	Task	Delivery of Fifth Vehicle	26 days	0%	Tue 11/28/23	Tue 1/2/24	323	325					
325	Task	Delivery of Sixth Vehicle	20 days	0%	Wed 1/3/24	Tue 1/30/24	324	425,422,333,9FF					
326	Task	Delivery of Spare Parts	90 days	0%	Fri 8/11/23	Thu 12/14/23	320						
327	Task	Delivery of Completed Manuals	88 days	0%	Mon 6/19/23	Wed 10/18/23	318	317					
328	Task	Vehicle Familiarization	10 days	0%	Fri 8/11/23	Thu 8/24/23	320	329					
329	Task	Training by Car Builder (for operators & mechanics)	34 days	0%	Fri 8/25/23	Wed 10/11/23	328						
330	Task	Delivery of Special Tools and Test Equipment	44 days	0%	Mon 7/3/23	Thu 8/31/23	320SS						
331	Task	Delivery of all As-Built Drawings	44 days	0%	Mon 7/3/23	Thu 8/31/23	320SS	332					
332	Task	Vehicle Contingency	89 days	0%	Wed 9/20/23	Mon 1/22/24	331,321	420					
333	Task	Vehicle Contingency (Sixth Car)	89 days	0%	Wed 1/31/24	Mon 6/3/24	325	422					
334	Task	ROW Procurement	220 days	0%	Wed 2/10/21	Wed 12/22/21							
335	Task	VMF Property	120 days	0%	Wed 2/10/21	Fri 7/30/21	129,16,304						
336	Task	Notify property owner of intent to purchase	0 days	0%	Wed 2/10/21	Wed 2/10/21		337					
337	Task	Initiate Appraisal process	15 days	0%	Thu 2/11/21	Wed 3/3/21	336	338					
338	Task	Negotiations with property owner	75 days	0%	Thu 3/4/21	Thu 6/17/21	337	339					
339	Task	Final Acquisition of property	30 days	0%	Fri 6/18/21	Fri 7/30/21	338	350					
340	Task	Mainline Easements (Sidewalk & TPSS) - TBD	70 days	0%	Thu 2/11/21	Wed 5/19/21							
341	Task	TBD	70 days	0%	Thu 2/11/21	Wed 5/19/21							
342	Task	Notify property owner of intent to purchase easement	10 days	0%	Thu 2/11/21	Wed 2/24/21	16,129,304	343					
343	Task	Initiate Appraisal process	20 days	0%	Thu 2/25/21	Wed 3/24/21	342	344					
344	Task	Negotiations with property owner	20 days	0%	Thu 3/25/21	Wed 4/21/21	343	345					
345	Task	Final Acquisition of property	20 days	0%	Thu 4/22/21	Wed 5/19/21	344	350					
346	Task	KCATA - Intergovernmental Agreement	20 days	0%	Thu 2/11/21	Wed 3/10/21							
347	Task	Acquire Agreement from KCATA for property easement	20 days	0%	Thu 2/11/21	Wed 3/10/21	129,16,304	350					
348	Task	MoDOT - Intergovernmental Agreement	20 days	0%	Thu 2/11/21	Wed 3/10/21							
349	Task	Negotiate Easement for Hwy 9 overpass	20 days	0%	Thu 2/11/21	Wed 3/10/21	129,16,304	350					
350	Task	Acquisition Contingency	100 days	0%	Mon 8/2/21	Wed 12/22/21	339,345,347,34400						
351	Task	Long Lead Item Procurement	450 days	0%	Thu 12/3/20	Fri 9/9/22							
352	Task	Special Trackwork Procurement Package	50 days	0%	Thu 12/3/20	Fri 2/12/21							
353	Task	Prepare drawings and specifications	40 days	0%	Thu 12/3/20	Fri 1/29/21	214	354					
354	Task	QC drawings and specifications	5 days	0%	Mon 2/1/21	Fri 2/5/21	353	355					
355	Task	Submit drawings and specifications to owner	0 days	0%	Fri 2/5/21	Fri 2/5/21	354	356,361					
356	Task	Owner Review of submittal	2 days	0%	Mon 2/8/21	Tue 2/9/21	355	357					
357	Task	Owner provides comments on plans and specs	0 days	0%	Tue 2/9/21	Tue 2/9/21	356	358					
358	Task	Resolve comments	2 days	0%	Wed 2/10/21	Thu 2/11/21	357	359					
359	Task	Issue for bid (Special Trackwork)	1 day	0%	Fri 2/12/21	Fri 2/12/21	358	360					
360	Task	Special Track Work Procurement	400 days	0%	Mon 2/15/21	Fri 9/9/22	359,361FF,304	389					
361	Task	Buy America Waiver - Process for VMF Special Eqpt.	60 days	0%	Thu 2/11/21	Wed 5/5/21	355,304	360FF					
362	Task	Rail Procurement	100 days	0%	Thu 2/11/21	Thu 7/1/21	214,304	385					
363	Task	OCS Pole Procurement	180 days	0%	Mon 8/2/21	Fri 4/15/22	222,304	398					
364	Task	TPSS Procurement	150 days	0%	Mon 8/2/21	Fri 3/4/22	222,304	400					
365	Task	VMF Special Equipment Procurement	150 days	0%	Thu 4/15/21	Mon 11/15/21	269,304						
366	Task	Construction	922 days?	0%	Mon 6/29/20	Mon 2/5/24							
367	Task	Utility Construction	573 days	0%	Mon 6/29/20	Thu 9/29/22							
368	Task	Sewer Rehabilitation	533 days	0%	Mon 6/29/20	Wed 8/3/22							
369	Task	*CNPA* Sewer Lateral Lining - FY 20 (Union - Brush Creek)	280 days	0%	Mon 6/29/20	Wed 8/4/21		382,372SS					
370	Task	*CNPA* Brush Creek Interceptor (Brush Creek - 51st)	280 days	0%	Mon 6/28/21	Wed 8/3/22		371SS,383					
371	Task	*CNPA* Sannitary Sewer Project near UMKC	280 days	0%	Mon 6/28/21	Wed 8/3/22	370SS	383					
372	Task	*CNPA* Smart Sewer Projects (locations)	280 days	0%	Mon 6/29/20	Wed 8/4/21	369SS	382					
373	Task	3rd Party Utility Relocations	147 days	0%	Mon 6/29/20	Wed 1/27/21							
374	Task	Third Party Utility Relocation Coordination	90 days	0%	Fri 9/18/20	Wed 1/27/21	161FS+50 days,						
375	Task	KCP&L Relocations	120 days	0%	Mon 6/29/20	Thu 12/17/20	381SS	382					
376	Task	MGE Relocations	110 days	0%	Mon 6/29/20	Thu 12/3/20	381SS	382					
377	Task	AT&T Relocations	100 days	0%	Mon 6/29/20	Tue 11/17/20	381SS	382					
378	Task	Surewest-AXOM Relocations	30 days	0%	Mon 6/29/20	Mon 8/10/20	381SS	382					
379	Task	Sprint-AXON Relocations	30 days	0%	Mon 6/29/20	Mon 8/10/20	381SS	382					
380	Task	Water Relocations	280 days	0%	Mon 6/29/20	Wed 8/4/21							
381	Task	*CNPA* Main Street Water Main Replacement (Union - Brush Creek)	280 days	0%	Mon 6/29/20	Wed 8/4/21		382,375SS,376SS,377SS,3					
382	Task	Utility Contingency (Union - Brush Creek)	40 days	0%	Thu 8/5/21	Thu 9/30/21	379,369,372,37386FF-100 days						
383	Task	Utility Contingency (Brush Creek - 51st)	40 days	0%	Thu 8/4/22	Thu 9/29/22	370,371	388,387					
384	Task	Track/Civil	489 days?	0%	Fri 12/17/21	Mon 11/13/23							



ID	Task Mode	Task Name	Duration	% Complete	Start	Finish	Predecessors	Successors	16	17	18	19	20	21	22	23	24
									H1	H1	H1	H1	H1	H1	H1	H1	H1
385		Contractor Mob/ Weld Rail	45 days	0%	Fri 12/17/21	Mon 2/21/22	362,164	386,388,394SS,7FF,387SS+									
386		Construct Embedded Track (Demo Ductwork, Conduit, Track, Concrete) Union - Brush Creek (assumes 1 crews/ 500' per week)	324 days	0%	Tue 2/22/22	Mon 5/29/23	240,385,304,3889SS+50 days,392FS-100 days,241	388,390,398FF+60									
387		Construct Retaining Wall (CC ROW)	60 days?	0%	Fri 9/30/22	Tue 12/27/22	383,385SS+5 d:388										
388		Construct Embedded Track (Demo Ductwork, Conduit, Track, Concrete) Brush Creek - 51st St. (assumes 1 crews/ 500' per week)	51 days	0%	Wed 12/28/22	Wed 3/8/23	385,240,383,24391,398FF+60 days,395FF+60 days										
389		Install Special Trackwork	50 days	0%	Mon 9/12/22	Fri 11/18/22	386SS+50 days,										
390		General Roadway Improvements (Union - Brush Creek)	120 days	0%	Tue 5/30/23	Mon 11/13/23	386										
391		General Roadway Improvements (Brush Creek - 51st)	60 days	0%	Thu 3/9/23	Wed 5/31/23	388										
392		Install Streetcar stop & amenities	180 days	0%	Tue 1/10/23	Mon 9/18/23	386FS-100 days:406										
393		Traffic/Lighting	439 days	0%	Fri 12/17/21	Mon 9/4/23											
394		Install Pole Foundation & Conduit	150 days	0%	Fri 12/17/21	Wed 7/20/22	385SS,222,304 395,398										
395		Install Traffic Signals/Install modifications	200 days	0%	Thu 11/10/22	Mon 8/21/23	394,386FF+60 (396SS+30 days										
396		Install Street Lights/Install relocations	180 days	0%	Tue 12/27/22	Mon 9/4/23	395SS+30 days:406										
397		Systems	375 days	0%	Mon 3/7/22	Mon 8/21/23											
398		Install OCS Poles, Conductor and Appurtenances	200 days	0%	Thu 11/10/22	Mon 8/21/23	363,394,386FF:406										
399		Install and Connect TPSS Substations	240 days	0%	Mon 3/7/22	Mon 2/13/23											
400		TPSS Site #5	80 days	0%	Mon 3/7/22	Mon 6/27/22	240,164,364,35401SS										
401		TPSS Site #6	80 days	0%	Mon 3/7/22	Mon 6/27/22	400SS 402										
402		TPSS Site #7	80 days	0%	Tue 6/28/22	Wed 10/19/22	401 403SS										
403		TPSS Site #8	80 days	0%	Tue 6/28/22	Wed 10/19/22	402SS 404										
404		TPSS Site #9	80 days	0%	Thu 10/20/22	Mon 2/13/23	403 405SS										
405		TPSS Site #10	80 days	0%	Thu 10/20/22	Mon 2/13/23	404SS 406										
406		Mainline Construction Contingency	100 days	0%	Tue 9/19/23	Mon 2/5/24	405,398,396,35407										
407		Substantial Completion - Main Line	0 days	0%	Mon 2/5/24	Mon 2/5/24	406 425,420FS-44 days,8FF										
408		Vehicle Maintenance Facility	283 days	0%	Fri 12/17/21	Fri 1/27/23											
409		Erosion Control	3 days	0%	Fri 12/17/21	Tue 12/21/21	164,278,304 410										
410		Clear and Prepare MSF Site	10 days	0%	Wed 12/22/21	Thu 1/6/22	409 411										
411		Drainage	10 days	0%	Fri 1/7/22	Thu 1/20/22	410 415,412										
412		Duct Bank Installation	20 days	0%	Fri 1/21/22	Thu 2/17/22	411 414										
413		Roadway/Sidewalk Reconstruction	30 days	0%	Wed 11/2/22	Thu 12/15/22	415 416										
414		Construct Embedded Track	30 days	0%	Fri 2/18/22	Thu 3/31/22	412 415										
415		Construct Building	150 days	0%	Fri 4/1/22	Tue 11/1/22	411,414 413										
416		Systems	30 days	0%	Fri 12/16/22	Fri 1/27/23	413 417										
417		VMF Construction Contingency	100 days	0%	Mon 1/30/23	Fri 6/16/23	416 418										
418		Substantial Completion - VMF	1 day	0%	Mon 6/19/23	Mon 6/19/23	417 425,423										
419		Testing and Integration	150 days	0%	Tue 1/23/24	Mon 8/19/24	425										
420		Mainline Testing Integration	75 days	0%	Tue 1/23/24	Mon 5/6/24	407FS-44 days, 421										
421		Safety Certification	25 days	0%	Tue 5/7/24	Mon 6/10/24	420 422										
422		Pre-Revenue Operations	50 days	0%	Tue 6/11/24	Mon 8/19/24	421,325,333 424										
423		Overall Project Contingency - VMF	175 days	0%	Tue 6/20/23	Mon 2/19/24	418										
424		Overall Project Contingency - Main Line	175 days	0%	Tue 8/20/24	Mon 4/21/25	422 425										
425		Begin Revenue Operation	0 days	0%	Mon 4/21/25	Mon 4/21/25	419,407,418,3210FF										



Project: KC Streetcar South Extens Date: Fri 3/29/19	Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Critical Split
	Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Deadline	Progress
	Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Critical	Manual Progress