	Actual Equipment Rated HP	Туре	Number		ruction ivity
Construction Equipment	Construction Equipment Actual Equipment of hp/hr of		of Units	Months of Activity	Days of Activity
Land Clearing - Along route ahead of	earth moving				
Tractors/Loaders/Backhoes-0120	97	Diesel	1	66	1389
Crawler Tractors-0500	410	Diesel	2	66	1389
Excavators-0500	450	Diesel	1	66	1389
Off-Highway Trucks -0500	300	Diesel	2	66	1389
Scrapers-0500	335	Diesel	2	66	1389
<b>Construction Equipment Total</b>			8		
Construct Haul Roads					
Tractors/Loaders/Backhoes-0120	97	Diesel	1	63	1326
Crawler Tractors-0500	410	Diesel	1	63	1326
Excavators-0500	450	Diesel	1	63	1326
Scrapers-0500	335	Diesel	1	63	1326
Construction Equipment Total			4		

## Table C-1 High-Speed Rail Construction Equipment List – Land Clearing

## Table C-2 High-Speed Rail Construction Equipment List – Earth Moving

Construction Equipment	Actual Equipment Rated HP hp/hr	Type of Fuel	Number of Units	Constructio Months of Activity	on Activity Days of Activity
Earth Moving - 3108+00 to 3	3321+00 (2,380,000 CY CUT	+ 630,000 CY	' FILL)		
Crawler Tractors-0500	410	Diesel	8	54	1129
Excavators-0500	450	Diesel	6	54	1129
Rubber Tired Loaders-0500	349	Diesel	6	54	1129
Graders-0250	458	Diesel	4	54	1129
Rollers-0175	174	Diesel	4	54	1129
On-Highway Trucks-0500	300	Diesel	6	54	1129
Off-Highway Trucks-0500	300	Diesel	24	54	1129
On-Highway Trucks-0250	210	Diesel	6	54	1129
Off-Highway Trucks-0250	210	Diesel	6	54	1129
Construction Equipment To	otal		70		

## Table C-3 High-Speed Rail Construction Equipment List – Roadway Construction

	Actual	Turns of	Number	Construction Activity	
Construction Equipment	Equipment Rated HP hp/hr	Type of Fuel	of Units	Months of Activity	Days of Activity
Roadway Construction					
Other General Industrial Equipment-0050	50	Diesel	20	66	1379
Other General Industrial Equipment-0250	250	Diesel	10	66	1379
Aerial Lifts-0120	60	Diesel	7	66	1379
Bore/Drill Rigs-0500	291	Diesel	7	66	1379
Pavers-0250	180	Diesel	7	66	1379
Sweepers/Scrubbers-0050	25	Diesel	7	66	1379
Off-Highway Trucks-0250	250	Diesel	7	66	1379
Tractors/Loaders/Backhoes-0120	87	Diesel	15	66	1379
Cranes-0500	470	Diesel	7	66	1379
Excavators-0500	450	Diesel	7	66	1379
Rubber Tired Loaders-0250	197	Diesel	7	66	1379
Graders-0175	158	Diesel	7	66	1379
Rollers-0175	174	Diesel	7	66	1379
Construction Equipment Total			115		

## Table C-4 High-Speed Rail Construction Equipment List – Structures Demolition

		-	N	Construction Activity		
Construction Equipment	onstruction Equipment Actual Equipment Type of Rated HP hp/hr Fuel		Number of Units	Months of Activity	Days of Activity	
Bridge Demolition						
Excavators-0500	450	Diesel	1-2	2	43	
Rubber Tired Loaders-0500	349	Diesel	1	2	43	
Other General Industrial Equipment-0050	15	Diesel	1-2	2	43	
Off-Highway Trucks-0500	300	Diesel	1	2	43	
Construction Equipment Total			4-6			

# Table C-5 High-Speed Rail Construction Equipment List – Buildings Demolition

				Construction Activity		
Construction Equipment	Actual Equipment Rated HP hp/hr	Type of Fuel	Number of Units	Months of Activity	Days of Activity	
Building Demolition						
Crawler Tractors-0500	410	Diesel	2	4	83	
Excavators-0500	450	Diesel	3	4	83	
Rubber Tired Loaders-0500	349	Diesel	3	4	83	
On-Highway Trucks-0500	300	Diesel	7	4	83	
On-Highway Trucks-0250	210	Diesel	7	4	83	
Construction Equipment To	otal		22			

## Table C-6 High-Speed Rail Construction Equipment List – Elevated Structures

	Actual Equipment	Type of	Number		truction tivity
Construction Equipment	Rated HP hp/hr	Fuel	of Units	Months of Activity	Days of Activity
Elevated Structures - HSR Alignment (Assuming 2 structures)	substructure crews a	nd 2 super	structure o	crews to co	nstruct 4
Aerial Lifts-0120	60	Diesel	1	66	1379
Bore/Drill Rigs-0500	291	Diesel	1	66	1379
Excavators-0500	300	Diesel	1	66	1379
Cranes-0500	420	Diesel	1	66	1379
Off-Highway Trucks-0250	210	Diesel	1	66	1379
Other General Industrial Equipment-0050	10	Diesel	2	66	1379
Rubber Tired Loaders-0500	262	Diesel	1	66	1379
Forklift	110	Diesel	2	66	1379
Concrete Pump	200	Diesel	1	66	1379
Construction Equipment Total			11		
Elevated Structures - HSR Alignment (Assuming 2 structures)	substructure crews a	nd 2 super	structure o	rews to co	nstruct 16
Aerial Lifts-0120	60	Diesel	1	66	1379
Other Construction Equipment-0120	106	Diesel	1	66	1379
Bore/Drill Rigs-0500	291	Diesel	2	66	1379
Excavators-0500	300	Diesel	1	66	1379
Cranes-0500	420	Diesel	1	66	1379
Off-Highway Trucks-0250	210	Diesel	2	66	1379
Cranes-0500	420	Diesel	2	66	1379
Other General Industrial Equipment-0050	10	Diesel	3	66	1379
Crawler Tractos-0500	310	Diesel	1	66	1379

	Actual	Tuno of	Number	Construction Activity	
Construction Equipment	tion Equipment Type o Rated HP Fuel hp/hr		Number of Units	Months of Activity	Days of Activity
Rubber Tired Loaders-0500	262	Diesel	1	66	1379
Graders-0175	158	Diesel	1	66	1379
Off-Highway Trucks-0250	210	Diesel	1	66	1379
Cranes-0500	420	Diesel	1	66	1379
Forklift	110	Diesel	1	66	1379
Concrete Pump	200	Diesel	1	66	1379
Construction Equipment Total	20				

# Table C-7 High-Speed Rail Construction Equipment List – Tracks at Grade

	Actual Equipment	Type of	Number		truction tivity
Construction Equipment		Type of Fuel	Number of Units	Months of Activity	Days of Activity
Lay Track at Grade					
Rail Car Locomotive	4,000	Diesel	1	0	2
Crawler Tractor	125	Diesel	2	66	1388
Other Construction Equipment-0250	300	Diesel	3	66	1388
Off-Highway Trucks-0500	479	Diesel	5	66	1388
Other General Industrial Equipment-0050	45	Diesel	1	66	1388
Construction Equipment Total					

## Table C-8 High-Speed Rail Construction Equipment List – Materials Handling

	Actual	Type of	Number	Construction Activity	
		Type of Fuel	Number of Units	Months of Activity	Days of Activity
North, Central, South					
Tractors/Loaders/Backhoes-0120	97	Diesel	1	78	1639
Crawler Tractors-0500	410	Diesel	1	78	1639
Rubber Tired Loaders-0500	349	Diesel	2	78	1639
Other Construction Equipment-0250	350	Diesel	4	78	1639
Other General Industrial Equipment-0050	15	Diesel	1	78	1639
Construction Equipment Total					

	Actual Equipment	Type of	Number	Act	ruction ivity
Construction Equipment	Rated HP hp/hr	Fuel	of Units	Months of Activity	Days of Activity
Tunneling					
Tractors/Loaders/Backhoes-0120	97	Diesel	4	72	1504
Crawler Tractors-0500	410	Diesel	5	72	1504
Excavators-0500	450	Diesel	3	67	1400
Rubber Tired Loaders-0500	349	Diesel	6	67	1400
Graders-0250	458	Diesel	2	7	147
Rollers-0175	174	Diesel	2	7	147
Cranes-0500	399	Diesel	4	72	1504
Forklifts-0175	145	Diesel	4	72	1504
Aerial Lifts-0120	60	Diesel	8	72	1504
On-Highway Trucks-0500	300	Diesel	8	12	251
On-Highway Trucks-0250	210	Diesel	4	53	1107
Deidric D90 Drill Rig for Soldier Piles	225	Diesel	2	77	1608
Katolight 250kW Generator for pipe jacking	379	Diesel	3	77	1608
Misc Generators	10	Diesel	11	60	1254
Conveyor for Cut and Cover Excavation	50	Diesel	1	12	250
Other General Industrial Equipment-0050	10	Diesel	1	79	1650
Other Construction Equipment-0500	350	Diesel	2	79	1650
Other Construction Equipment-0175	125	Diesel	2	79	1650
Concrete Pump 100 CY / HR	131	Diesel	1	79	1650
Shotcrete Pump 50/ CY HR	70	Diesel	1	29	605
Low Haul Scooptram ST 1520 Atlas Copco	230	Diesel	1	24	502
Alpine Road Header for SEM Tunnel excavation	190	Diesel	1	41	856
Concrete Batch Plant. For shotcrete as well as Concrete	320	Diesel	1	41	856
Concrete Mixer Trucks, also for shotcrete Mix 8 CY Trucks	280	Diesel	5	36	752
Air Compressors 250 CFM for Shotcrete	80	Diesel	4	24	501
Air Compressor 1600	450	Diesel	12	24	501
Menzi Mucker Excavator to Trip SEM Tunnel Excavation as Required	104	Diesel	1	67	1400
Rough Terrain Fork Lift. Load Drill & Blast Holes & erect lattice girders in SEM Tunnel	80	Diesel	1	79	1650
CAT C18 ACERT off road Articulated Rear Dump Truck 45 Ton Capacity	496	Diesel	1	77	1607
CAT 988 Front End Loader	475	Diesel	1	36	752
Construction Equipment Total			102		

# Table C-9 High-Speed Rail Construction Equipment List – Tunnel Construction

# Table C-10 High-Speed Rail Construction Equipment List – System Facilities

			Numbe	Constr	uction Activity	
Construction Equipment Actual Equipment Type of Rated HP hp/hr Fuel	r of Units	Months of Activity	Days of Activity			
Systems Facilities -						
Tractors/Loaders/Backhoes-0120	97	Diesel	2	78	1629	
Crawler Tractors-0500	410	Diesel	1	78	1629	
Rubber Tired Loaders-0500	349	Diesel	1	78	1629	
Graders-0250	458	Diesel	1	78	1629	
Rollers-0175	174	Diesel	1	78	1629	
Other General Industrial Equipment-0050	15	Diesel	2	78	1629	
Off-Highway Trucks-0250	210	Diesel	2	78	1629	
Construction Equipment Total						

## Table C-11 High-Speed Rail Construction Equipment List – Metrolink CMF Upgrades

			Numbe	Constru	uction Activity
Construction Equipment	Actual Equipment Rated HP hp/hr	Type of Fuel	r of Units	Months of Activity	Days of Activity
Metrolink CMF Upgrades -					
Tractors/Loaders/Backhoes-0120	97	Diesel	2	42	876
Crawler Tractors-0500	410	Diesel	4	42	876
Excavators-0500	450	Diesel	2	42	876
Rubber Tired Loaders-0500	349	Diesel	2	42	876
Graders-0250	458	Diesel	2	42	876
Rollers-0175	156-174	Diesel	2	42	876
Other General Industrial Equipment-0050	15	Diesel	2	42	876
Off-Highway Trucks-0250	210	Diesel	8	42	876
Construction Equipment Total			24		