

# Attachment 5

## I-485 RSS & ITS Equipment List

**I-5507: I-485 Express Lanes - Attachment 5**

ITS Equipment List	Maintenance Required by Contractor	ITS Plan Code	Provided By	Unit	Qty	Priority	(if allowed)	Comments
1. CCTV camera assembly for traffic management	Level 3	CD	Constructor	EA	24	2		Generally, 50-ft pole
2. CCTV camera assembly for traffic management with lowering device	Level 3	CD	Constructor	EA	1	2	4	75-ft pole
3. CCTV camera assembly for express lane/toll site operation	Level 3	CE	Constructor	EA	24	1		
4. CCTV camera assembly for express lane/toll site operation with lowering device	Level 3	CE	Constructor	EA	1	2	4	75-ft pole (shared with the 1 CD Camera that also has a LD)
5. Toll Rate Sign CCTV camera assembly	Level 3	CR	Constructor	EA	19	1		17 for ER signs and 2 for ET Signs
6. Full-size walk-in amber DMS assembly for traffic management	Level 3	ED, PD	Constructor	EA	9	3		
7. Toll Rate Sign color front-access DMS module	Level 3	ER	Constructor	EA	20	1		12 signs w/1 module, 4 signs w/2 modules
8. Speed/Travel Time color front-access DMS module	Level 3	ET	Constructor	EA	4	3		2 signs with 2 modules per sign
9. Mainline Microwave Radar Detection Station (1 sensor per direction)	Level 3	DM	Constructor	EA	49	3		Poles are 25-ft to 5-ft
10. Ramp Microwave Radar Detection Station (1 sensor per site)	None	DR	Constructor	EA	44	3		
11. West End Trunkline Fiber (1x72f, 1x144f) and splice enclosures	None		Constructor	MI	2.0	3	7 days	
12. East End Trunkline Fiber (2x144f) and splice enclosures	None		Constructor	MI	17.0	3	7 days	
13. Monroe Connection Trunkline Fiber (1x48f) and splice enclosures	None		Constructor	MI	0.2	3	7 days	
14. Trunkline Conduit (4x1.25") and junction boxes	None		Constructor	MI	19.0	3	7 days	Initial Priority is to protect the asset
15. Drop Fiber (6f or 12f) and splice enclosures/termination panels	None		Constructor	MI	5.0	3	7 days	
16. Drop Conduit (2x2") and junction boxes	None		Constructor	MI	5.0	4	7 days	Initial Priority is to protect the asset
17. Electrical service meter bases (combination panels)	None		Constructor	EA	48	3	7 days	
18. Step-up/Step-down transformers	None		Constructor	EA	52	3	7 days	
19. ITS 10Gbs Layer 3 Hub Switch	Level 3		NCDOT	EA	2	2		Replacement switches and configuration by NCDOT
20. ITS 1Gbs Ethernet Edge Switch	Level 3		NCDOT	EA	34	2		Replacement switches and configuration by NCDOT
21. Electronic Wrong-Way sign and supporting detection and cameras	Level 3		Constructor	EA	4	2		All at Westinghouse DC site
22. Tolls 10Gbs Layer 3 Hub Switch	Level 3		Contractor	EA	3	1		
23. Tolls 1Gbs Ethernet Edge Switch	Level 3		Contractor	EA	114	1		Qty depends on the Proposer's network design

Notes: The below Priority levels are the minimum priorities established for the responsibilities as defined above. The Contractor shall use these priorities as a guideline and may be required to reduce response and repair times if required to meet all requirements as outlined in the Contract.

	Response and Repair Time
Priority 1	2 Hours
Priority 2	4 Hours
Priority 3	24 Hours