

## Cost Recovery Issues

Issue	Contract	Mod#	
1	C07A1	26	Support of excavation
2	C07A1	31	Rental and materials re-handling costs caused by early land transfer from C07A1 to C07D
3	C20A2	3	Additional costs in relation to changes in the design to the supply flue balancing plates
4	C07A4	51	Revisions to various structural drawing details to reflect refinement in design
5	C09A7		Fort Point Channel
6	C05A1	044, 056	Changed specification for immersed tubes for interface with cofferdam
7	D002A		Slope paving failure; additional design and construction costs
8	C07A1	7	Addition of surface mounted conduits to replace conduits shown as being embedded in concrete (see CR# 658)
9	C05A1	42	Modification to stray current station to prevent moisture leakage into corrosion control system
10	C05B1	85	Relocation of anchor bolts
11	C05A1	54	CADD electronic files
12	C07A1	60	Revised contract limit at station (ITT interface)
13	C07D1	25	Ground wiring for the viaduct electrical system
14	C14C2	19	Callahan Ramp changed conditions
15	C14C2	3	Relocate cable television service to Marriott Hotel
16	C14C2	15	Relocate traffic signal and lighting cabinets
17	C14C2	6	Demolition and removal of reinforced decking on tunnel ramp
18	C14C2	21	Lightweight backfill at MH#17 and MS#28A/NESI relocation
19	C13A1	20	Asbestos remediation
20	C13A1	40	Increase size of manhole
21	C14C2	5	Relocation of teleport communications cable
22	C14B1	13	Utility relocation - North of Causeway/Installation of 16" gate valves
23	C14B1	10	Utility relocation - North of Causeway/Conflict between existing BECO lines and CSJC #13
24	C14B1	5	Existing foundation at Stop & Shop loading dock
25	C14B1	5	Added manholes for the 36" CS
26	C02A1	4	Field modification of track drain manholes
27	C07D1	15	Revise relocation of electric and telephone ductbanks
28	C07D1	2	Resequence Stage I viaduct construction
29	C05A1	44	Trimming tube No. 2 outboard horn beams
30	C05A1	53	E and F electrical pullbox extension
31	C07D1		Demolition of the Porter Street combined sewer at West Abutment
32	C14A2	31	Escalator pit foundation interferences
33	C14B1	21	DSC 115KV lines @ MH#13
34	C14B1	032SF	DSC CS MH#18
35	C07A1	64	Additional grouting @ ITT interface (see CR# 660)
36	C04A3	5, 011	Contract contingency adjustment; changed cofferdam access date (time); different site conditions during caisson installation (time)
37	C07D1	11	Revise duct tie details
38	C02A1	26	Replace slope paving on Haul Road
39	C04A2	082SF	Invert change at Stations 71 and 98
40	C04A2	69	Fire water line interference with ceiling panel hangers
41	C04A3	22	Support beam relocation at second floor exhaust stacks
42	C04A3	28	Revisions to precast panel dimensions
43	C05A1	54	5" fiberglass conduit
44	C13A1	26	Relocate BE manhole and duct bank
45	C13A1	23	Viaduct grounding system
46	C13A1	36	Viaduct bearing pads
47	C20A2	19	ITT walkway pullbox covers
48	C24A1	19	OCC Electrical/PCS manhold ductbanks
49	C04A2	61	Revisions to West Tunnel for seismic
50	C04A2	81	Revision to boat wall face and walkway cross-slope
51	C24A2	4	H-Pile
52	D014B	18	Drawing orientation (Mod ?005)
53	C14B3	4	Utilities relocation
54	C20A2	10	Utility room transformer mounting (includes PCN 039)
55	C20A2	024SF	VB-7 cable tray revisions
56	C20A2	25	BIF surface mounted conduits
57	C07D1	31	Schedule and impact costs
58	C04A2	078SF	Steam plant header relief valves

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59	C04A3	051, 073	Duct mounted smoke detectors
60	C11A1	2	Rite Media sign removal transfer from C07A1 to C07D
61	C04A2	89	Drain line/existing sewer conflicts
62	C13A1	13	Temporary SBBR ramp in Widett Circle -Changes to Guardrails
63	C24A1	035SF	Increase standby generator intake louver width (RFI-137)
64	C05B1	25	Yoke plant dimension change
65	C07A5	7	Telephone service and electric fee
66	C17A2	11	Excessive pile obstructions and footing removal
67	C04A2	097SF	Utility modifications at FID Kennedy Ave.
68	C04A2	103	Site revisions for EPPS Station (see CR #612)
69	D019A		Contract maximum payment amount adjustments and closeout
70	D016A	11	Additional construction phase service
71	C04A3	26	Supplemental framing for first floor electrical openings
72	C11A1	10	Dewey Square 30" gas line realignment - Duplicate of CR #538
73	C21A2	52	Extend sand drainage layer
74	R15A6		Asbestos Abatement
75	C20A2	35	Tunnel lighting/ceiling installation
76	C14C2	35	Delay in mobilization of slurry wall
77	C22A1	36	Provide non-PVC jacketed control
78	C07D2	1	Airport access road signage revisions
79	C07D1		Insurance deductibles
80	C07D1	070SF	Emergency temporary boat section - LMC repairs
81	C15A3	027SF	Silicone Containment Pit
82	C07D2	13	Gravel fill under existing boat slab
83	C04A2	108	Sewer manhole #10 and EDIC information booth conflict
84	C04A2	108	ITT batch closure issues
85	C04A2	108	Backfill of vent building #6/ITT
86	R15A6	7	Leveling compound - asbestos abatement (Analex)
87	R15A6	2	Asbestos abatement - window caulking (Analex)
88	C09C1		Rev. of Ivas beam to bent cap connection for prying action - D012A
89	C09C1		Revised Ivas plans - D012A
90	C12A3	037SF	Northbound frontage road drainage changes
91	C12A3	031SF	Modifications to C13A1 area to accommodate SBBR bridge ext
92	C12A3	52	Beveled sole plate bearings
93	C07D2	194	Modify lighting levels to conform to design standards
94	C09A8	93	Design specified bridge closure panels and site/type of bolts for installation. Bolts failed.
95	C19B1	265	Conduit supports at C19D3 and C19B1 interface omitted from design.
96	C15A1	55	Necessary to reinstall of permanent waterline at corrected elevation to resolve conflict with proposed electrical ductbank.
97	C15A1	108	Designed configuration did not fit as-built condition; ramp RF/RG bent girder steel. Duplicate of CR#320.
98	C19B1	181FW	IPCS manhole conflict ductbank/Potential error in contract drawings resulted in rework of excavation.
99	C19B1	247	Discrepancy in documents re: pier elevations
100	C15A2	318FW	Utility conflict. Western Union and Teleport ductbanks from Valenti to Causeway.
101	C15A1	353	Design for support piles failed to account for excavated condition; additional bracing for temporary ramp caissons.
102	C15A1	389FW	Incorrect elevation of steel and cap plates for RC-14 and 15 required contractor to shim.
103	C19E1	160FW	Existing structure was fabricated for 24" pipe (19E5). Had to be reworked for a 30" in 19E1.
104	C15A1	402FW	Additional underpinning lead removal at Bent 21, 23, and 31
105	C19B1	322FW	Contract documents did not provide correct scupper downspout elevations, necessitating drainage rework. Update #6
106	C15A2	063, 150	Slurry wall/ waterline conflict at Valenti Way
107	C15A2	204	Change in roof girder splice bolts/plates.
108	C19B1	26	Contractor installed MBTA cable trough in accordance with special provisions resulting in conflict with contract drawings.
109	C19B1	37	Remove contaminated materials at warehouse
110	C19B1	043FW	Replacement of BW&S meter pit frames and covers.
111	C19B1	131	Anchor slab for barriers on Ramp T-L.
112	C19B1	132	Rework for installation of epoxy coated rebar. NB-10 & NB11 Straddle Beams

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113	C19B1	133	Install slotted perforated corrugated plastic pipe; subdrains outside of ramps N-S walls
114	C19B1	165	Interface issues, barrier revisions, additional supports, SN/NS4
115	C19B8	152	Increase weld size in tub girder diaphragms.
116	C19E1	66	Temporary shoring towers required because pedestrian bridge temporary support system design was insufficient.
117	C19E1	047FW	Emergency repairs to pedestrian bridge support system at Leverett Circle
118	R19E3	014, 023	Removal and disposal of contaminated dirt, water and granite.
119	R19E3	21	Contract did not indicate existence of existing asbestos pipe encased in concrete and oil-contaminated sewer line.
120	C19E7	080, 045	Additional structural support and revision stay-in-place form layout.
121	C19E7	087, 045	Revise to comply with DPM 142 (FCN 012) - utility room drainage and egress structure details.
122	C22A1	134SF	Fire alarm system services
123	C19B1	247	Beams between the cast-in-place and box beam spans of unequal height. Connection at Temp Ramp 6
124	C19B1	234	Additional work for balanced cantilever segments meeting accidental bridge segment release requirements.
125	C11A1	799	Contract omitted requirement for Contractor to restore 3" of concrete that it had removed in installing struts and roof girders. - Merged into CR #627
126	C15A1	306	Base slab elevation conflict.
127	C15A1	222	Overrun in unit price item quantities.
128	C09B2	5	Drawings omitted details specifying materials to be used in fabrication of jet fan electrical panel enclosures and fire rating requirements.
129	C07D2	58	Coordination between C22A2 and C07D2 designs.
130	C11A1	526	Design omitted requirement to maintain temporary MBTA drainage system during installation of Needle Pile F12.
131	C09A4	213	Revisions to IPCS, Straddle bent, Ramp LL and Frontage Road.
132	C05B1	117, 018	Deficiencies in Ted Williams Tunnel exhaust air system.
133	R08A4	52	Change in electrical conduit, utility installation, drainage work and soil removal.
134	C17AA	17	Revisions to raceway fireproof enclosures and conduit runs
135	C09A4	227	Installation and removal of muck bin and foam road for C09C1 access through the C09A4 work site. Design coordination problem.
136	C01B1	1	Structural steel coating revisions.
137	C01B1	5	Rebid miscellaneous and ornamental iron filed subbids.
138	C09A3		Rebid miscellaneous and ornamental iron filed subbids.
139	C09A7	222	Deflection of H-pile wall (multiple PCNs)
140	C19B1	286	Design and construction of alternate falsework - ST-2/CT-2
141	C19B1	288	Design and construction of alternate falsework - ST-3, CT-3, TC-15
142	C19E1	150	Additional anchorage for embedded plates at roof girders.
143	C19E4	8	Demolish existing drilled shafts.
144	C19E7	109	Traffic alignment revisions.
145	C19B1	199	Revisions to overlay thickness on temporary ramps #1, 2, 5.
146	C15A3	171	Revisions to access hatches for surge and settling tanks.
147	C19B1	323	Replanting with different riverside species for test plots
148	C19E7	128	Bolsters were installed in accordance with approved shop drawings but required rework
149	C19B1	315FW	Rework straddle bent bearing plates. NB-8
150	C19B1	330FW	Rework of temporary ramps. CT/TC Crossover Changes
151	C19B1	65	Contractor's engineer incurred costs for additional design and engineering due to possible design errors (Update #6)
152	C07D2	235	Modify height of temporary light poles which conflicted with overhead viaduct
153	C01A3	51	Revisions to FUKO Hose System
154	C08A1	7	Grout injection at TWT; Water infiltration through concrete joint openings in cross-passageways. (Tunnel leakage may have been due to defective design.)
155	C19B1	279FW	Changes to scupper design and added post tensioning block.
156	C19B1	334FW	Revisions to temporary ramp profile. Ramp LT-2 conflict with Bent 5 footing
157	C15A2	150	Common south abutment wall (PCN 350) - B/PB coordination issue. Common south abutment wall (Mod 150 is a 15A2 Mod and is PCN 350). B/BP Coordination issue with C19D1.
158	C19D1	116	Redesign of closure wall footing to avoid utility conflict (CP 118).
159	C15A2	150, 370	PCN 370: Revisions to walkway gutter to blackout to coordinate with C17AA
160	C15A2	150, 367	Routings for power and instrumentation conduits serving jet fans on Ramp SA-CN revised. (RFI I-151)

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161	C15A3	75	Revisions to plenums and access stairway pressure (DPM 176).
162	C20B1	9	Change in motor horsepower for vent building exhaust fans.
163	C19B1	340-343FW	Rework of conduit and cages in pier segments.
164	C15A1	549	Revisions to method of underpinning at Bent RH-1, 2 and 3.
165	C07D2	150	S-R-10 roadway revisions; Possible design omissions, conflicts and errors impacted contract constructability.
166	C12A3	224	Mast arm design conflicted with I-93 structure, necessitating extension of C12A3 Milestones 1 and 2 and revision of signal mast arm
167	C07D2	116	Revisions to post-tensioning cables, reinforcing steel and electrical conduits.
168	C17A2	143FW	Traffic phasing conflicts with C15A1.
169	C11A1	808	Revisions to interim fire system to avoid conflict with follow-on contractor (CP 888).
170	C07D2	267	Additional shoring and post tension revisions.
171	C07D2	276	Traffic detour modifications.
172	C12A3	199	Bridge railing revisions to conform to the ADA and Massachusetts Building Code.
173	C25A4	32	Disposal of bulk concrete debris with asbestos not included as pay item in contract.
174	C15A1	50	Settlement of multiple contractor proposals.
175	C19B1	053, 154, 289	Delete post-tensioning blocks and add spiro ducts in balanced cantilever segments.
176	C09A4	267	Excavation of harder than anticipated soil mix installed under C09A8.
177	C09A8	114	West Fourth Street reconfiguration did not accommodate C09A4 and C12A3 construction activity.
178	C09A8	115	Movement in Fort Point Channel perimeter wall during C09A8 soil mix and jet grouting, ops resulted in re-siltation of Channel.
179	C19D1	136	Bent 6 center column adjustment (CP 145).
180	C01A6	510	Additional power supply, rebar, cap material, slurry wall redesign and design revision. Settlement of outstanding issues, including CP056, CP124, CP138, CP150, CP214 and CP222.
181	C12A3	151	Temporary drainage and install overhead directional and regulatory signing - provisions omitted.
182	C17AA	194	Requirement of soldier pile protection was not included as C11A1 contract requirement
183	C09A4	45	Revisions to electrical ceiling pull boxes and additional stub-outs.
184	C08A1	60	As bid design omitted a pipe cross detail subsequently added to C08A1 contract. Elimination of MPA surface/storm water diversion structure and installation of pipe cross detail
185	C09B1	79	Possible design coordination issue in C09B1's removal of sheet piles at sta. 31 and 50 that were in original scope of C09A7.
186	C08A5	10	Revised clearance areas.
187	C09A4	283	Additional soil stabilization necessary because the excavation was not performed by C09A7 or C09B1
188	C17AA	67	Revised cable tray grounding.
189	C17AA	139	Additional pull boxes and modifications to electrical hatch layouts.
190	C22A2	28	FDS Monitor module relocation in TWT (FCN 168)
191	C08A1	18	Additional safety inspection of temporary bridge.
192	C07D2	319	Changes to the approach slab elevations and vehicle barrier elevations along Ramp U-T/A.
193	C19B1	320FW	Universal insert boxes at Ramp TC
194	C19D1	149FW	IPCS blackout detail conflict
195	C09B1	105	Leaks in excavation support system below Immersed Tube Tunnel
196	C01A3	244	Leaks at interface joint between C01A3 and C04A2 (CP 140)
197	C09A3		Wall interference Vent IV
198	C01A3	255	Inadequate pull box covers
199	C17AA	229	Revise C20B2 Ramp C lighting design within C09A4 and C11A1 contract areas
200	C19B1	320FW	Universal insert boxes at Ramp TC
201	C07D2	202	CP 448, 270, 307, 332 and 349 - Design changes and revisions; multi-issue settlement re: arrivals tunnel impacts
202	C22A2		Conflict between VMS, cameras, LUS structures and fixed sign panels
203	C09A4	261	CP 151 HOV EB - voided slab discrepancies
204	C07D2	235	Interim lighting below viaducts for detours 19 and 23
205	C09A4	335	Drilled shafts pay item
206	C12A3	202	Change in I-beam/elevation
207	C01A3	255	Pullbox covers
208	C09B2	154	Roadway dust control quantity
209	C17AA	155	Corrosion Protection (PCN 709) Merge with CR 627.02
210	C17AA	60	Revise conduit supports/electrical pull boxes

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211	C17AA	33	Fire standpipe isolation valves
212	C19E1	267	Tunnel clearance - Dup of CR 272
213	C09A4	229	Electric raceway gap interface C17AA/C09A4
214	C17A1	347	Fire protection system
215	C19B1	329	Partial erection of SB-7R temporary ramp 7
216	C17AA	7	Update #1
217	C19E1		Temporary Ramp LCN Span 13
218	C17A6	47	Tunnel lighting design - Duplicate of CR # 377
219	C22A1	180FW	FM Rebroadcast antenna
220	C22A1	28	CO monitor system
221	C22A1	60	Hardware and software design deficiencies C22A1/C22A2
222	C19B1	53	Post Tensioning brackets
223	C07D2	362	Pavement failure, C07D2 mod
223.1			Pavement Failure - BPB portion (223.a = 223.1)
223.2			Pavement Failure - SDC portion 223.b = 223.2)
224	C19E7	78	Temporary Ramp LC-N - typical bearing assembly
225	C09A8	59	Cable manhole
226	C09A4	26	Cross hole sonic logging tubes
227	C15A1	342FW	Air Cock Release Valves
228	C21A2	131FW	Replace native grass
229	C09A4	090FW	Coating for bearings
230	C17A9	199FW	Conflict between ductbank and manholes in zone 200N
231	C09C1	135FW	Traffic arm interference
232	C17A2	78	Identification of contaminant hazard
233	C19E1	16	Nashua Street alignment and grading
234	C19B1	106	Drainage line cleaning
235	C15A1	213	Conflict Ramp RJ Sign Bridge and Slurry Wall
236	C15A2	191	Conflicts Wall/Soldier Piles and Roof Slabs (RFLs 687 and 688)
237	C09A4	175	Hard wire fire alarm pull box
238	C07D2	162	Thickened slab detail for electrical elements
239	C22A1	251	Sign damage
240	C09A4	154	Increase manhole diameter
241	C17A1	191	Vertical ductbank
241.1			BECO Manhole (Paid under C17A1 Mods A191 and A231 and CP304) (241.a = 241.1)
241.2			BECO Manhole (Paid under C17A1 Mods A191 and A231 and CP304) (241.b = 241.2)
242	C19B1	177FW	Plate thickness conflict
243	C09B2	031FW	Electrical conduit conflict
244	C19D1	75	Redesign - PT/rebar congestion
245	C19D1	170	Mainspan steel forced fit-up
246	C17A1	413	Excavation sequence - Federal Reserve Bank claim
247	C15A1		D015A - Nonreimbursable Design Billings for RFI review. All construction contracts.
248	C15A3	205	Installation of Exhaust Plenum Airlocks
249	C15A3	309, 310, 311, 312, 313, 324	Redesign conduit, ductwork, plumbing, equipment, HVAC, fire protection
250	C15A3	250	Acceleration of all milestones
251	C15A3	179, 180	Conduit and IPCS conduit installation - Electrical Update
252	C19D1	19	Additional light mounting brackets
253	C19D1	23	South tower strut resequencing and tendon conflicts
254	C19D1	037FW	South abutment corbel revisions
255	C19D1	043FW	Floor beam top flange/edge girder conflict
256	C19D1	44	South backspan/South tower integrated shop drawings
257	C19D1	048FW	Steel formwork tubes
258	C19D1	129	Precast panel leveling bolts (PCN 055)
259	C19D1	129	Mainspan erection analysis/additional cable strands (PCN 083)
260	C19D1	75	Bent 5 diaphragm dimensions and transverse tendons (PCN 96)
261	C19D1	75	Bent 6 diaphragm interference (PCN 99)
262	C19D1	129	Additional cable strands/heavy mainspan (CP 114) (PCN 114)
263	C19D1	75	North tower ramp geometry plan (PCN 160) -SACN ramp strut elevation revisions
264	C19D1	75	Conflicts structural elements/constructability (PCN 100)

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265	C19D1	75	South backspan rebar changes (PCN 156)
266	C19D1	75	Global Settlement
267	C19D1	168FW	Coating damage from welding studs (CP 147)
268	C19D1	184	Firestand pipe coating (CP 189) (PCN 184)
269	C19D1		Tendon tubes with voids
270	C20B2	23	Vent Building 8 Redesign. Equipment and raceway layout changes
271	C19B1	379	CT-1 Erection Revision
272	C19B1	267	Reroute SPTC Tunnel Conduit for Fire (FCN 128) -Dupl. CR 212
273	C01B1	107	Conflict CMU opening/Louver frames
274	C09B2	078FW	Replace Propane Powered Equipment with Diesel
275	C17AA	021FW	Revise door panel height
276	C15A2	320FW	12 4" TE ductbank conflict w/TEMH #1075 at Causeway Street
277	C19B1	231FW	Relocation of 3" conduit
278	C17A2	195FW	Utility Room No. 4 Conduit Run re-work
279	C01B1	029FW	Added monorail support
280	C15A2	397FW	Drug Testing
281	C07C1	041FW	Furnish alternate rooftop a/c unit
282	C15A2	365FW	Cross Passage Details
283	C19B1	297FW	ILCC microsilica remediation
284	C07C1	012FW	Ramp E-T Toll building plumbing
285	C15A2	404FW	Conflicts with GWES manhole T.
286	C01B1	032FW	Baseplate revisions/anchor bolt corrections
287	C15A1	495FW	Damage Traffic Signal
288	C09A3	083FW	ERS/ESS/Modified coping at windows
289	C17A3	078FW	Emergency egress gate conduit replacement - Contractor Backcharge
290	C19B1	361FW	Bent 33 conduit riser/rebar conflicts
291	C01B1	031FW	Fire telephone system
292	C09A3	048FW	CMU Wall interference/steel roof beam conflict
293	C08A5	015FW	Pile relocations due to conflicts
294	C01B1	053FW	Trench and drain conflict at loading dock
295	C09A3	098FW	Stair height clearance conflict
296	C09A4	282	Relocate freeze plant and extend maintenance
297	C11A1	833	Revised connections of t'way framing to SPTC pin piles (CP 839)
298	C20B2	65	Interim Electric Substation (C15A2, C17A2, C20B2)
299	C20B2	71	15KV vacuum circuit breakers
300	C20B2	81	Fuel injection system - Duplicate of CR #332
301	C19B1	153	Additional bracing at CT-26 and TC-27
302	C17A3	86	Revisions to contract milestones
303	C20B2	26	Revisions to duct lighting fixture in exhaust ducts
304	C17AA	194	Tunnel leak repair work - closed because duplicate of CR# 182
305	C17AA	215	Fuko hose extension - Merged into CR #627.01
306	C01B1	107	Ventilation Building No. 5
307	C20B2	97	Revised Access Restraints and Milestone Dates
308	C12A3	265FW	Low barrier
309	C20B1	60	Revised Access Restraints and Milestone Dates
310	C12A3		Remedial work
311	C09B1		Ramp T-S Milestones
312	C17AA	229	Raceway gap - Duplicate of CR #199
313	C11A1		Denso - C17AA/C11A1 - Merged into CR #627.02
314	C20B2	66	Light fixture supports
315	C19B1	054FW	Cable trough bypass
316	C15A1	292FW	Revisions to Lower Framing Plan and TFI at RF
317	C15A1	43	CATV temporary conduit changes
318	C15A1	060, 117FW	Egress Stair #1
319	C15A1		Shop Drawing Rework / Excess Engineering
320	C15A1	108, 352FW, 503FW	Ramp RF/FG Sequence bent girder steel. Duplicate of CR#97.
321	C15A2	108	Changes to Load Bearing Element (LBE) #17 (FCN S-139-3-1) (PCN 045)
322	C15A2	198, 150	Bent Z Underpinning (RFI 1037) (PCN 198)
323	C15A2	150	Underpinning Conflict due to No-splice Zone (PCN 297)

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324	C15A2	150	Additional Support for Hanging 66" CS and 30" LS lines (PCN 333)
325	C15A3	73	GS-01 Headroom Clearance
326	C15A3	081SF	Garage Standpipe System
327	C15A3	116	Utility Relocation
328	C15A3	124	Traffic / Work Deck Coordination
329	C15A3	125FW	Garage Elevator Glazed Opening Infill
330	C15A3	143	Kodiak-type Tower Crane (PCN 152)
331	C20B1	88	Buy America Provision
332	C20B2	81	Fuel Injection System - Duplicate of CR-300
333	C19B1	384	Erection Tower Conflicts
334	C17AA	456	Stainless Steel Screens
335	C19B1	591	Safety Grates
336	C15A3	287	Lift-out Roof Hatch (RFI 1207)
337	C19B1	532	Temporary Support at Straddle Bent TC-17L
338	C01A3	244	Joint Repair at C04A2 interface (CP 140)
339	C19B1	586	Future PT Conflicts
340	C15A3	323	Material Handling Services to Follow-on Contractor
341	C01A6	621	Utility Bridge Support
342	C17A6	47	Interim Lighting Revisions - Duplicate of CR #377
343	C15A2	055, 150	Underpinning (C15A2) - detailing/fabrication changes
344	C19B1	596	Revisions to expansion joint at Pier TC-3
345	C09A4	438	Acceleration of viaduct Ramps KKK
346	C15A3	173	Addition of final surface restoration work along Hanover & Congress Streets
347	C09C4	42	Installation of temporary bearings and procurement of shorter, permanent bearings
348	C09A4	132	Installation of civil work and additional freeze pipes for the I-90 Eastbound
349	C09A4	31	Installation of civil work and additional freeze pipes for the I-90 Westbound
350	C09A4	45	Electrical work including additional rebar, additional boxouts, modifications to retaining walls
351	C09B2	246	TWT revised balance plate setting for exhaust ports
352	C09C2	10	Installation of an interim fire standpipe system for the I-90 and I-93 roadways
353	C09A4	219	Ramp L SOE tieback conflict with C09A4 piles at Approach Structure #5 & soil mix obstruction
354	C09B1	226	Junction \ pullbox revised details in ITT joint openings
355	C09B2	282	Add pavement expansion joints at the ITT joints (PCN 282)
356	C17AA	165	New contract specifications for Microsilica/Wearing Course - Merged into 628
357	C01A3	255	New covers for the 13.8 KV pullboxes in the air ducts (RFI 2156.1)
358	C01A3	390	Add fireproofing requirements for pullbox covers of embedded raceway in the tunnel roof/ceiling
359	C22A1	245	Incomplete or inaccurate software or documentation
360	C07D2	362	Preparatory work for the I-90 Microsilica Placement
361	C17AA	95	Revisions to electrical design
362	C09A4	22	Construction of redesigned Frontage Road viaduct
363	C17AA	341	Addition of fireproofing to conduit mounted to roof girders in C19E1 ramps
364	C19B1	589	Revisions to expansion joint at NB-12
365	C15A3	105, 119	Groundwater/Grouting
366	C09B1	027, 078, 105	Roof Slab Deflection Re: Immersed Tube Tunnel
367	C08A1	210FW	Pump station fan replacement (RFI 652)
368	C15A2		B/BP failure to depict Fleet Center in preliminary design, B/BP failure to survey and measure elevated roadway before construction began, and B/BP failure to adequately identify obstructions for tunnels
369	C15A2		B/BP failure to incorporate MBTA objections to plans to raze a ramp near Fleet Center bc it would cause the Green Line and ramp to collapse
370	C05B1		Drawings for Ted Williams Tunnel left a gap between tunnel sections; B/BP failed to require sufficient space for ventilation in tunnel walls and failed to test the ventilation system
371	C09B3	210	BP's failure to ensure a steel dam built to keep water out of the Fort Point Channel was sealed, resulting in leak
372	C09C2	7	Signage and pavement marking revisions for I-90 and I-93
373	C09B3	7	BCC enforcement order for \$25,000 jointly against MCC, MHD and B/PB paid in total by MHD
374	C15A3	312	Miscellaneous electrical design changes coordination
375	C09B1	229	Design and construct temporary pumping station (RFI 331)

## Cost Recovery Issues

Issue	Contract	Mod#	
376	C19D1	N/A	Remedial work for grout voids in PT ducts and dispute over who bears responsibility/subcontractor agreement dispute as well
377	C17A6	47	Interim lighting revisions - DUPLICATE of CR #342
378	C11A1	273	Underpinning grout heave (CP 596)
379	C19B1	118	Furnish and install additional post-tensioning blocks for Ramps ST, TC, and CT.
380	C17AA	616	Provide expansion joint in microsilica overlays at locations in C15A1 and C15A2
381	C09C2	73	Revisions to EPS temporary fire proofing
382	C09C2	39	Revisions to excavation to conform to revised drawing which changed during the bidding process
383	C01B1	150	Revisions to UPS room ventilation in Vent Building #5
384	C01B1	149	Deletion of suspended ceiling to remove conflict with follow-on cable trays
385	C01A3	257	Modifications to interface beam to add support to interface of Viaduct Street and Summer Street Over C Bridge
386	C07C1	87	Installation of sidewalk, stairways, barriers, guard-rail and parking lot at E-T and I-90 Toll Support Building
387	C17AA	526	Revisions to electrical drawings to coordinate ST-SA/CN ceiling raceway installation
388	C20B1	061FW	Modify jet fan switches
389	C20B1	148FW	Modify fan operation to conform to pk: spec in the event of an emergency
390	C19E4	118	Revisions to HVAC supply/exhaust fans power and control wiring
391	C15A3	378	Furnish and install replacement light fixtures on exterior of building
392	C17AA	670	Re-route conduit and enclosure to provide access to roof girder connections at VB #4 tie-in to Ramp CS-SA West Wall. - DUPE OF 414
393	C17AA	82	Increase Quantity-Water for Roadway Dust
394	C19D1	075, 160	Revisions to Ramp SACN tower dimensions and reinforcement to resolve conflict with strut elevations (PCN 160)
395	C17AA	492	Revise electrical conduits, boxes and ceiling hatches to resolve conflict between C17AA and C20B2 in Ramp SA-CT.
396	C17AA	504	Extend safety barriers on ramps in I-93NB tunnel and Summer Tunnel
397	C15A1	6	Temporary 20" gas line (former CR #600)
398	C15A1	46	30" bypass at north bulkhead
399	C15A1	155	Temporary CS Hanover/Blackstone to Hanover/Cross (former CR #607)
400	C15A1	433	Global Settlement (former CR# 612)
400.1			A644 - Combined Sewer Force Main Blackstone/Hanover
400.3			Item 3 - Acceleration of All Milestones
400.4			Item 7 - Lost Productivity due to Acceleration
400.5			Item 8 - Escalation
400.6			Item 9 - Subcontractor Inefficiencies
401	C15A2	94	Change site conditions at the 60" CS tie-in (support MBTA ramp) (former CR #620)
402	C15A2	150	Global Settlement
403	C15A2	153	Increase slurry walls production
404	C15A2	174	Slurry wall panel rock strata higher than anticipated
405	C15A2	292	Slurry plant relocation
406	C15A3	143	Global Settlement (former CR# 640) A048 - Support of Excavation
407	C15A3	222	Location of north tower crane+C70 (former CR#641)
408	C15A3	301	Coordination study recommendations (RFI 1220) former CR#716
409	C15A3	366	Door and hardware revisions
410	C15A3	382FW	Pre-action sprinkler system
411	C19B1	632	NB 15 Junction Box Risers
412	C19D1	215	Inspection and re-grouting of PT tendons where voids had been detected after first grouting
413	C17AA	494	Revise support beams for jet fans CNS-5 and CNS-6
414	C17AA	670	Electrical revisions to VB #4, including modification to conduit and fireproofing enclosure - see CR 392
415	C29A1	9	Removal of buried obstacles
416	C15A3	16	Rework installed raceway to provide the power circuit separation required for jet fans with listed materials and methods.
417	C09B2	339	Remove and replace trench drains Project-wide/I-90 alignment - Merged into CR#718
418	C17AA	672	Cold weather delay of paving resulted in price increase of asphalt mix - Merged into CR# 628
419	C07D2	382, 396	Injection grouting and related work to repair water leak in the Arrivals tunnel roof
420	C08A1	207	Temporary sign bridge at detour 844 to avoid conflict
421	C01A3	381	Invert drainage and rebar conflict and install additional reinforcing steel



## Cost Recovery Issues

Issue	Contract	Mod#	
422	C01A7	9	Utility conflicts
423	C09B1	244	Removal of baffle wall that had not been depicted in contract drawings
424	C29A1	18	Asbestos - Out of state handling contaminated soil, state-wide
425	C19B1	12	Clearance area #4, #8, and #14 revisions
426	C19B1	38	SN 13 redesign and acceleration costs
427	C19B1	57	Construction Update #5
428	C19B1	59	Additional street sweeping
429	C19B1	111	Increase quantity dispose out/state dredge
430	C19B1	115	Increase quantity - contaminated soil recycling
431	C19B1	124	Provide interim power
432	C19B1	151	Change to epoxy rebar - Update #3
433	C19B1	242	Temporary shoring at NB-7
434	C19B1	296	Asbestos abatement - CA-NA tunnel excavation
435	C19B1	312	Electrical changes - Update #6
436	C19B1	410	Acceleration - partial recover delays - cert. CPs
437	C19B1	619	Global - Issues: 053, 241, 367, 554, 586, 596; CPs: 337, 618, 725
437.1			CP-725 - Extraordinary Supervision and Engineering Costs
437.4			Issue A367 - Painting of Fire Standpipes
437.5			CP-618 - NB-13B Drilled Shaft Differing Site Condition
438	C19B1	235	Grind & fit stiffeners - TR 1&2 girders
439	C19B1	241	Temp ramps 1 & 2 steel redesign
440	C19B1	268	Revisions to Bents 18 - 21
441	C19B1	333	Revise structural steel at temp ramps
442	C19B1	425	Change of depth on TC-17 straddle bent
443	C19B1	462	Gravity feed expoxy - bal. cant. closure joints
444	C19B1	471	Additional haunches at I-93 SB and Tamp TC
445	C19B1	472	Contaminated materials - bay #3 GTI warehouse
446	C19B1	536	Acceleration of straddle Bent TC-171
447	C19B1	548	Temporary support at straddle Bent SB-7
448	C19B1	175	Additional concrete overlay - temporary Ramp 6
449	C19B1	203	Revise bracing details - temp Ramps 1,2,5
450	C19B1	210	Additional rebar - pedestals/rebar revisions - capitals
451	C19B1	261	ST-0 expansion joint segment design conflict
452	C19B1	399	Elevation conflict at segment NB-2R
453	C19B1	592	Revised grading plan in CA-NA tunnel
454	C17A6	304	Structural modifications at Bents 30 and 31 to allow for adequate overhead clearance for traffic from CN-SA to WB lanes
455	C17AA	585	Replace fireproofing ceiling pull boxes
456	C17AA	785	Replace six plenum access hatches in precast concrete ceiling of Ramp CS/SA-CT
457	C17AA	745	Modify ceiling modules to allow room for 2 new sign structures
458	C20B2	250	Relocation of ceiling-mounted sign lights in tunnel to provide motorists with clear view of signage
459	C19D1	196	Repair cracks - Tower-West Knuckle
460	C19D3	44	Global Settlement (Issue 044 only at \$460,000) South Backspan/south Tower integrated shop drawings
461	C01A6	691	Grout injection of joints at super plug
462	C17AA	802	Relocate approximate linear feet of conduit installed by C19E1 in Ramp L-CS to eliminate interference with jet fans
463	C13A1	6	Construct temporary ramp connection from existing Frontage Road NB to South Boston Bypass Road Viaduct Structure
464	C07D2	115	Ramp E-T pavement - C07C1 mod Merged into CR#628
465	C17AA	374	Repair of DENSO tape that failed after being applied to roof girder seat connectors - Merged into CR #627.02
466	C17A6	210	DENSO system repairs in C17A2 area - Merged into CR #627.02
467	C09A7	4	Construct Dorchester Branch railroad temp bridge to revised design
468	C09A7	12	New force main across Dorchester Avenue and along Ramp D
469	C09A7	32	Global Settlement (Resolution of issues to 09/10/1999) -Preliminary Design
470	C09A7	222	Global Settlement (excluding issue in CR #139)
471	C09A7	34	SOE adjacent to RR in Parcel 8
472	C09A7	39	Deletion of Ramp DD - Drawing Update

## Cost Recovery Issues

Issue	Contract	Mod#	
473	C09A7	53	Transport DSM/JG spoils to swingles quarry
474	C09A7	59	Deep soil mix without fly ash
475	C09A7	63	Transport of material Types A, B and C to Quarry Hills
476	C09A7	67	Removal of material from Fort Point Channel
477	C09A7	88	Obstruction removal
478	C09A7	214	Transport materials to Subaru Pier
479	C09A7	217	Float-Out support - Bulldog barge after 11/11/1999
480	C09A4	167	Add seismic restraint (FCN 222, CP 286, RFI 715)
481	C09A4	236FW	Pavement at Albany Street
482	C09A4	253	Drainage Roll Plan F (CP 260)
483	C09A4	256	Obstructions to drilled shafts at St. #501-120/220 (CP 266)
484	C09A4	417	Fire standpipe coating revision, Ramp "A/B" & Frontage Road (CP 693)
485	C09A4	435	Remove stringers from precast piles
486	C09A4	531	Electrical pullboxes revisions App. Str. #5 (CP 743, FCN 519)
487	C09A8	1	Perimeter sheet wall design parameter change
488	C09A8	131FW	Repair of Jeanie Joint
489	C19D1	8	C15A2 36-inch water relocation/support of excavation
490	C19D1	14	Alternate interim power source
491	C19D1	39	South backspan/Abutment drilled shaft diabase
492	C19D1	54	HPS70W Anchor pipe seam welds
493	C19D1	75	Global Settlement
493.3			North tower obstruction overruns and Orange Line conflict
493.5			North Tower footing redesign
494	C19D1	129	Global Settlement
494.2			Revised barriers/function boxes
494.7			Post tensioning pourbacks
494.9			IPCS conduit floorbeam/backspan openings
495	C19D1	166	Rebar congestion at Bent 6
496	C19D1	179FW	Safety rails at towers
497	C19D1	180FW	Additional barrier rebar at mainspan closure pours
498	C19D1	188FW	Additional barrier at C19D1/C19B1 and C19D1/C15A2 interfaces
499	C19D1	192FW	Bent 6 center column deck removal
500	C07D2	9	Mitigation screen revisions
501	C07D2	18	Upland non-clearance material disposal
502	C07D2	101	Membrane waterproofing installation method - Merged into CR #627.03
503	C07D2	107	Global settlement
504	C07D2	151	Provisional payment for rehabilitation to SDMH #5
505	C07D2	179	Global settlement
506	C07D2	219	Added costs for driving Arrivals tunnel; precast piles
507	C07D2	300	Premium time for electrical workers
508	C07D2	382	Global settlement
509	C07D2	213	Extension of MPA Ramp AA-E boat section
510	C07D2	250	Premium time work at MPA Ramp due to egress restriction
511	C07D2	311	Conditional adjustment to contract milestones
512	C09A4	476	Install new ATS at 1st level of storm water pump
513	C17AA	314	Leak repair (DENSO) - Merged into CR #627.04
514	C11A1	3	Additional jacking sleeves
515	C11A1	35	Utilities conflicts with 30" gas line at Kneeland Street (CP 141)
516	C11A1	40	CP 204 - Contract time extension request
517	C11A1	42	30" gas line realignment at Kneeland Street
518	C11A1	43	Signalization at Kneeland Street, Surface Road & Ramp E
519	C11A1	44	Differing site conditions - water leak at FRB b1 level
520	C11A1	45	Caisson Design (DPM 70)
521	C11A1	50	Disposal of excavated material - Ramp E
522	C11A1	51	supporting direct costs
523	C11A1	53	Water in abandoned 72" NESI line Atlantic Avenue station
524	C11A1	55	Obstruction during drilling pin pile - 168
525	C11A1	63	Temporary 12" steam line utility conflicts
526	C11A1	88	Monitoring system grouting above access tunnels to control water inflow
527	C11A1	96	16" watermain adjacent to Dewey Square intersection

## Cost Recovery Issues

Issue	Contract	Mod#	
528	C11A1	277	Extend monitoring of Red Line instruments
529	C11A1	349	SOE and west drift wall redesign for B1 bedrock area
530	C11A1	361	Additional work at SSTC for temp deck construction
531	C11A1	507	Direct cost settlement for multiple CPs
532	C11A1	558	Added contract milestones
533	C11A1	584	U-UP drilling/grouting @ SSTC wall
534	C11A1	587	Schedule direction
535	C11A1	620	CP 716/735/740 Mining stacked drifts one, east and west
536	C11A1	710	CP 532A RFP "H" jet grout
537	C11A1	908	CP 1026 - Incorporation of interim milestones
538	C11A1	10	(PCN 50R3) Dewey Square 30" gas line realignment
539	C22A9	6	Replacement of I-93 SB 2-way radio system that did not function properly (FCNs 11, 12, 13, 18, 19, 21, 24, 25, and 27)
540	C17AA	559	Temporary road cross-over CANB at SA-CN
541	C17AA	711	Microsilica concrete surface preparation revisions - Merged into CR# 628
542	C09B2	351	Remove and replace existing trench drains on I-93 alignment - Merged into CR# 718
543	C19E4	166	Misc. changes - 4' metal panel strip and emergency lighting system
544	C01A3	393	Negotiation package number 2
545	C15A1	99	Acceleration of Milestone 12 (former CR# 604)
546	C15A1	180	Interim power (former CR# 608)
547	C15A2	13	Modify the location of 36" LS water line (former CR# 615)
548	C15A2	68	18" combined sewer pipe and MH at Cooper Street conflicting with ESPTC (former CR# 618)
549	C15A3	244	Relocate temp water lines (former CR #642)
550	C15A3	285	Proposed close-out modifications (former CR #643)
551	C15A3	86	Geotech instrumentation not maintained
552	C15A1	40	Revise waterproofing systems - Merged into CR #627.03
553	C15A1	536	Acceleration of excavation and concrete work
554	C15A1	703	Highway conflicts between ramp and underpinning
555	C15A2	3	Waterproofing materials - spec restriction - Merged into CR #627.03
556	C15A2	146	Asbestos contaminated material at Ramp J
557	C15A2	149	Removal of contaminated bird dropping
558	C15A2	170	Slurry wall obstruction removal
559	C15A2	181	Contaminated soil disposal
560	C15A2	229	Corrosion protection of structural steel elements - Merged into CR #627.02
561	C15A2	301	Transportation of material Type H-PI
562	C15A2	322	Additional epoxy coating change for roof girders - Merged into CR #627.02
563	C15A2	388	SPTC panel collapse
564	C15A3	18	Relocate 12" SD on Sudbury Street
565	C15A3	292	C15A1 SPTC wall demolition/excessive noise
566	C15A3	314	Delayed light fixture installation
567	C15A3	324	Design changes coordination - misc. metals
568	C15A3	356	Fan voltage conflicts
569	C15A3	357	Repair of electrical conduits damaged by follow-on contract
570	C19E1	2	Relocation of Fleet Center TV broadcast trucks
571	C19E1	15	Global Settlement
571.01			Bent F3 Redesign @ North Station (FCN #3 & #15)
571.04			16" Waterline Martha Road (FCN No. 54)
571.11			Slurry Wall Lost Productivity
571.12			CN-S Open Cut Constructin Bulkhead
572	C19E1	28	North Station rail yard survey support
573	C19E1	030, 015	Vent Building #8 - 36 Drilled Shafts (FCN 17)
574	C19E1	41	Jet grout soil stabilization (North Station SPTC walls)
575	C19E1	056, 015	MBTA/McCourt duct relocations/E7 interim power (FCN 18)
576	C19E1	075, 015	Soldier pile/Roof girder corrosion protection (FCN 102) - Merged into CR #627.02
577	C17AA	95	Revise electrical design for C15A1 and C15A2 areas as detailed in FCNs 116, 116A, 116B and 260 - DUPLICATE OF CR #361
578	C20B2	516	Furnish and factory-install undervoltage relays on the line (load) side of electrical utilization voltage switchgear equipment in 22 unit substation line-ups
579	C17AA	526	Electrical changes at Ramp ST-SA/CN - DUPLICATE OF CR #387
580	C17A6	629	Electrical equipment work-around for AIS and Dewey Square Tunnel (Duplicate of CR #632)

## Cost Recovery Issues

Issue	Contract	Mod#	
581	C17A6	100	Precast panel installation conflict in DST
582	C17A6	203	Relocation of conduit for air intake structure
583	C17AA	815	Northbound leak repair - live traffic conditions - Merged into CR #627.04
584	C01A3	3	Update #1
585	C01A3	7	USPS drilled shafts
586	C01A3	10	Fargo Street - connection to haul road
587	C01A3	17	Transport of materials to Quincy
588	C01A3	100	Pay item overruns
589	C01A3	222	Surface street Mods for Ramp A opening
590	C01A3	233	Construct road for temp MBTA contractor
591	C01A3	250	Ramp F Opening
592	C01A3	278	Interim extension of Summer Street
593	C01A3	366	Sealing of leaks - Merged into CR #627.04
594	C01A3	Pending	Pending A Street Mod and related issues
595	C01A3	336	Fiber optics cable repair
596	C01A3	353	Viaduct Street - fire standpipe revisions
597	C01A3	280	Castin basin pump operators - Stand-by (CP 377)
598	C01A3	393	Negotiation Package #2
599	C01A3	402	6" water line for VB #5 hydrant
600	C01A3	403	Negotiation package #3B
601	C01A6	10	Relocation of concrete batch plant
602	C01A6	17	Quantity overruns #1
603	C01A6	519	Casting basin area/ Super-plug
604	C01A6	580	Access restraint #A/R 1
605	C01A6	586	West service road
606	C01A7	25	Modification of pedestrian pole color and finish (RFI 58.1, CP 101)
607	C04A2	42	(PCN 78) Mudmat waterproofing revision - Merged into CR #627.03
608	C04A2	69	Fire water line interference with ceiling panel hangers
609	C04A2	88	Stirrup revision at West Tunnel
610	C04A2	97	(PCN 156R1) Utility modifications at FID Kennedy Avenue
611	C04A2	152	Drain line/existing sewer conflict in N. Avenue/Dewatering
612	C04A2	103	Site revisions for EPPS Station
613	C04A2	108	Issue 1- Sewer manhole #10 and EDIC information booth conflict - (formerly CR #83)
614	C04A2	108	Issue 2 - Backfill of VB #6/ITT
615	C04A3	49	Sprinkler system pre-action control panel
616	C04A3	66	Door opening height change
617	C04A3	87	Door hardware
618	C04A3	5, 11	(PCNs 2 and 15) Contract contingency adjustment, changed cofferdam access date (time); different site conditions during caisson installment (time)
619	C04A3	51	(PCN 56R1) Duct mounted smoke detectors
620	C04A4	12	Enlarge the louver for the generator room
621	C01A6	595	Global Settlement, Ramp I & L Backfill Pour, Pending A Street/HOV ramp Mod and related issues
622	C19BA	76	Revise design of concrete box girder diaphragms at north and south tower cantilever
623	C17A3	199	Lightening/grounding loop
624	C09A4	443	Revisions to Amtrak electrical footing 228-178
625	C19B1	631	MWRA 36" sewer repairs
626	C17A6	294	Additional side exhaust ducts
629	C15A3	334	Generator RM layout and exhaust piping changes
630	C20B2	301	Provide additional diesel generator at VB#4 (FCN 242)
631	C15A3	381	Temporary fire protection and detection for office/retail area
632	C17A6	629	Direction in rev'd switchgear submittal comments - DUPE OF CR #580
633	C19BA	11	IPCS pullouts
634	C17AA	1026	Regrade Ramp SA-CS to eliminate ponding at low point
635	C08A1	9, 147	Renegotiate pay item 940.161 vertical pre-excavation and pay item 140.161 horizontal pre-excavation

## Cost Recovery Issues

Issue	Contract	Mod#	
636	C07A1	1	Taxiway "W" pavement overlay, repair of hardstand areas and strengthening of utility vaults
637	C07A1	2	Simple span series 700 ACROW prefab bridge and engineering to design temp bridge detour
638	C07A1	4	Taxiway "W" island modifications
639	C07A1	10	Accelerate excavation work in the Vent Building area
640	C07A1	14	Concrete work - time extension; provide and maintain unrestricted access
641	C07A1	18	Barge fendering system at Bird Island Flats, install fire alarm system, install electrical equipment in Batter Room of MPA electrical substation and reroute electrical cables along tunnel alignment
642	C07A1	30	CLV changes, boat section
643	C07A1	37	Modifications to interim facilities ventilation, fire protection and drainage
644	C07A1	38	Revised interim facilities power system
645	C07A1	40	Electrical design changes
646	C07A1	61	Additional electrical work at Governor's Island
647	C07A1	76	Temp toll plaza and temp emergency response station
648	C07A1	78	Compensation to contractor for inefficiencies/impacts experienced during Spectacle Island loading, barging and unloading operations
649	C07A1	87	Tunnel roof openings
650	C07A1	101	Taxiway "K" Phase II revisions
651	C07A1	103	Additional dust control at Gap Gate and at Governor's Island
652	C07A1	112	Terminal A hardstand repair
653	C07A1	118	Drawing revisions, VB area and utility room/cross passages (coordination issue)
654	C07A1	135	Tunnel leak repairs at construction joints -
655	C07A1	144	Repairs to boat section drainage
656	C07A1	26	Support of excavation (formerly CR #1)
657	C07A1	31	Rental and materials rehandling costs caused by early land transfer from C07A1 to C07D (formerly CR #2)
658	C07A1	71	Addition of surface mounted conduits to replace conduits shown as being embedded in concrete (formerly CR #8)
659	C07A1	60	Revised contract limit at station (ITT interface) (formerly CR #12)
660	C07A1	64	Additional grouting at ITT interface (formerly CR #35)
661	C09B1	24	Deletion of waterproofing systems -
662	C09B1	45	C01A6 coordination east of casting basin
663	C09B1	60	Revise Access Restraint #2
664	C09B1	69	Stage II dredging delay
665	C09B1	75	Concrete crack repair
666	C09B1	80	Remove/dispose soil mix arisings after dredging
667	C09B1	97	Temporary west side power
668	C09B1	99	Ramp L SOE design revision
669	C09B1	105	Global Settlement
669.1			Changed Conditions Supply Exhaust Plenum Area (CP 71)
670	C09B1	110	Changed conditions along HZ and ESW-6 walls
671	C09B1	177	Ballast concrete additional work
672	C09B2	125	Global Settlement
673	C09B3	286	Fireproofing of pullboxes outside of plenums
674	C09B2	178	Additional electrical conduit C09A7 area
675	C08A1	151	Renegotiate P1 996.252 - MBTA rebar
676	C08A1	159, 202	Acceleration to achieve Milestone 7
676.1			I-90 Bent 5 Seismic Reinforcing Revisions
676.2			Future Risk - Bent 5 (renumbered as F085)
677	C08A1	50	Cathodic protection
678	C08A1	73	Telephone signal profiles
679	C08A1	209	Under viaduct paver transfer from C07D2
680	C08A1	190	Neptune Road
681	C08A1	196	Temporary fire protection
682	C05B1	2	Precast polymer concrete panels
683	C05B1	3	Pedestrian guardrail and base plates
684	C05B1	4	Narrative addendum changes - CLV redesign
685	C05B1	7	Revised ceiling penetrations for sign supports
686	C05B1	9	Interim electrical facilities - generator purchase
687	C05B1	10	Revisions to milestones and access restraints

## Cost Recovery Issues

Issue	Contract	Mod#	
688	C05B1	16	Ceiling height revs; VB #7; security gates
689	C05B1	18	Increase interim facilities T&M funding
690	C05B1	19	Core drilling - rebar interference
691	C05B1	25	Enlarge hangar yoke plates (former CR #64)
692	C05B1	27	AFPO - ceiling system and polymer panels
693	C05B1	31	Tile removal to repair water leaks
694	C05B1	35	Additional LMC & polymer panel interfaces
695	C05B1	42	Resequenced installation of ITT ceiling
696	C05B1	62	Additional tile removal and replacement - BMIP EB outer wall
697	C05B1	74	Removal and replacement of tile - BIF tunnels
698	C05B1	92	Cove beams under VB #7
699	C05B1	110	Excess ceiling panels due to theoretical dimensioning
700	C05B1	85	Relocation of anchor bolts (former CR #10)
701	C09B2	107	TWT ceiling exhaust plenum remediation
702	C09B2	208	FCN for continuation of TWT ceiling plenum work
703	C17AA	416	Crack sealing base slab - Merged into CR #628
704	C17AA	440	Milling base slab - Merged into CR #628
705	C17A2	30	Acceleration costs for Perma Pipe system and supports
706	C17A2	19	C17A2/C14C4 Utility interface
707	C17AA	634	SB leak repair - Merged into CR #627.04
708	C17AA	715	Additional cleaning of wall panels - Merged into CR #627.04
709	C17A9	61	Purchase Street to Atlantic Avenue waterlines crossing
710	C17A6	518	Remove watermain CSP room
711	C17AA	742	Revise fireproofing ceiling pullboxes - C19E1 LCS & S-N
712	C08A1	294	Addition of roadway lighting for new roadway
713	C19E4	103	Settlement of multiple claims and changes
714	C18A2	119	Changes due to C17A6 diesel generator changes
715	C22A9	2	TWT fire detection system rework
716	C22A2	None	Alleged additional damages from failure of IPCS ("Honeywell") regarding payments to MTA electricians for manually performed tasks
717	C09C2	130	Design issues at X-34/pier cap
718	PW		Project -Wide Trench Drains Issue
718.1			Trench Drains - D001A
718.2			Trench Drains - D004A
718.3			Trench Drains - D007A
718.4			Trench Drains - D007D
718.5			Trench Drains - D009A
718.6			Trench Drains - D019E
718.7			Trench Drains - B/PB responsibility
719	C09B2	372	Add tunnel lighting and gore signage to the TWT Ramp T-S/T-A/D gore C20B2
720	C07A1	124	Repair 8-inch fire line in eastbound air flue
721	C07A1	141	Repair 8-inch fire line in westbound supply air plenum
722	C19E6	41	Pot bearing design revisions for Ramp LC-N
723	C19E6	54	Demolition/restoration of SN boat wall to accommodate LC-N
724	C21A2		Spectacle Island
725	C17A1	231	Global settlement - Merged into CR #627
725.1			72" NESI Conflict
726	C19E6	16	Roadway grading plan LC-N/CN-I.
727	C19E1	268	Raise CN-S tunnel conduit for 15' FP clearance
728	C19E4	175	Global settlement, specifically Issue 24, Glass Block Revisions
729	C17A6	350	Jacobs: Schedule initiatives; CPs 422 and 491. Shared with other SDCS. See CR #s 738, 739, 740, 741
730	C22A9	55	Implementation of two-way radio system for I-93 SB. O&M manuals
731	C09B2	359	Repair and testing of fire protection systems at I-90
732	C20B1	253	Correct fire alarm zoning in VB1 and VB2; relocate detectors out of tunnel plenum and into building areas. FCN-120
733	C08A1	299	Ductbank relocation conflict with drilled shaft IANB A/D-I
734	C08A1	154	Contract-wide utility conflicts
735	C17A6	396	Asbestos abatement south of Ramp J - CP 556
736	C08A1	250	Trench drain replacement - FCN 138 (C07C1 transfer) - Merged into CR #718

## Cost Recovery Issues

Issue	Contract	Mod#	
737	C19B6	25	Install ductbank waterproofing requirements at S-N ramp (FCN 20)
738	C17A6	350	D011A: Schedule initiatives; CPs 422 and 491. Shared with other SDCS. See CR #s 729, 739, 740, 741
739	C17A6	350	D009B: Schedule initiatives; CPs 422 and 491. Shared with other SDCS. See CR #s 729, 738, 740, 741
740	C17A6	350	D017A: Schedule initiatives; CPs 422 and 491. Shared with other SDCS. See CR #s 729, 738, 739, 741
741	C17A6	350	D022A: Schedule initiatives; CPs 422 and 491. Shared with other SDCS. See CR #s 729, 738, 739, 740
742	C17A6	400	Jacobs: CP 458 Direct costs of contract change proposals. Shared with other SDCs. See also 743, 744, 745, 746
743	C17A6	400	D011A: CP 458 Direct costs of contract change proposals. Shared with other SDCs. See also 742, 744, 745, 746
744	C17A6	400	D009B: CP 458 Direct costs of contract change proposals. Shared with other SDCs. See also 742, 743, 745, 746
745	C17A6	400	D017A: CP 458 Direct costs of contract change proposals. Shared with other SDCs. See also 742, 743, 744, 746
745.12			Revised 15k Volt Pull Boxes
746	C17A6	400	D022A: CP 458 Direct costs of contract change proposals. Shared with other SDCs. See also 742, 743, 744, 745
747	C09C2	86	CP 114 - Ramp XE Modifications
748	C09A3	12	Various cost proposals within Mod pertaining to VB #1 Access delays and changes
749	C17AA	744	Replace wall panel top connections - Merged into CR #627
750	C17AA	1095	Asphalt pavement grinding - Rideability - Merged into CR #628
751	C17A6	41	FCN 67/CP 51 - Additional requirements AIS transfer switch
752	C17A6	137	FCN 108/CP 188 - Revisions to jet fan conduit routing
753	C17A6	350	D018A: FCN 301/CP 491 - Damages related to NBO delays. Shared with other SDCs. See also CR #s 729 and 738 - 741.
754	C17A6	216	FCN 315/CP 537 - DST interim fire alarm and carbon monoxide systems
755	C18A2	6	Extra monorail steel
756	C18A2	63	FCN 55 - Gable end of barrel vault
757	C17A6	539	FCN 376/CP 750 15 KV pull boxes in AIS
758	C18A2	33	Tube steel brace at column line E
759	C17AA	1076	Project-wide leak repair - CSU 11 - Merged into CR #627.04
760	C20B2	668	Investigate water infiltration at I-90 and I-93 - Merged into CR #627.04
761	C20B2	634	SL & TL system at Ramp T-A/D (FCN 432 and 454)
762	C17A6	400	D018A: CP 458 Direct costs of contractor change proposals. Shared with other SDCs. See also 742, 743, 744, 745, and 746
762.09			Additional Manholes/Catchbasins.(CP 1362)
763	C29A1	128	Platform redesign at Bridge #4 (East) Opening/CP 131
764	C19BA	27	Additional conduit between Bents B15 and B33
765	C22A2	811	Final settlement
766	C22A1	13	Access restraints and milestone date revisions
767	C22A1	3	Vehicle loop detectors
768	C22A1	4	Additional IPCS work on South Boston Haul Road
769	C22A1	9	Install AM radio radiator wire portal to portal in both inverts
770	C22A1	16	Incorporation of comments and deficiencies for PS&E
771	C22A1	17	Addition of fire detection/alarm equipment in VB #6
772	C22A1	18	Addition of fire detection/alarm equipment in VB #7
773	C22A1	19	Sign changes - South Boston Access to TWT
774	C22A1	20	Fire alarm system in ERS and CMF
775	C22A1	23	Warehouse facilities
776	C22A1	27	Addition of security system in East Boston ERS/ESS
777	C22A1	36	Provide non-PVC jacketed control cable (former CR #77)
778	C22A1	40	Relocation of equipment and associated signal routing
779	C22A1	46	Access control/security system, telephone system and fire alarm system tie-in for ERS #2 in South Boston
780	C22A1	59	Specification and drawing changes
781	C22A1	195	Warehousing
782	C22A1	234	Fire detection system deficiencies at VB #6 and VB #7

## Cost Recovery Issues

Issue	Contract	Mod#	
783	C22A2	200	Revised access restraints and milestone dates
784	C22A2	252	Direct costs of contractor change proposals
785	C22A2	9	Equipment cabinet support frames (FCNs 37, 38, 39, 40, and 42)
786	C22A2	430	Simulcast installation
787	C22A2	461	Correct two-way radio distortion
788	C22A2	466	BOCC: Extend software engineering support
789	C22A2	352	Loop detector replacement - Section II Mod not yet finalized
790	C09B2	364	Wabocrete at superplug joints and plenum leak proofing
791	C19BA	90	Leak injection roof wall joints - CASB & CANB tunnels Merged into CR #627.04
792	C08A1	316	Cull out and dispose of ACM from C08A1 @ Subaru
793	C09D2	20	Seawall revisions at Screen House
794	C21C2	71	Final settlement
795	C17A6	845	Anticipated ACM and utility impacts to drain line installation
796	C17A3	99	Revised Dwgs. & Spec. of Conformed Contract Documents Per Update No. 7
797	C17A3	43	Revise Drawings and Specifications of Conformed Contract Documents per Update #4
798	C17A3	55	Revise Drawings and Specifications of Conformed Documents per Update #6
799	C17AA	1190	Winter Maintenance Support - Merged into #CR 627.04
800	C19BA	52	Enlarge Cable Anchorage Openings at Zakim Bridge
801	C09A4	999	Thrust Pit Claim
802	C17AA	353	Modify Exhaust Ducts VB #4 - New Computer Model
803	C17AA	994	Southbound Leak Repair - Live Traffic Conditions. Merged into CR #627.04
804	C17AA	1151	South Bay Mall Scope Transfer - C09C2
805	C17AA	1222	Repair Fireproofing Due to Leaks CSU-11.5 - Merged into CR #627.04
806	C22A1	306	Final Settlement - I-90/TWT Furnish/Install IPCS
807	C18A2	8	Equipment Access Hatch (FCN #001, RFI #0005)
808	C18A2	87	New Fire Enclosure Around Access Hatch Opening (FCN No. 79)
809	C18A2	127	Elevator Shaft Wall Infill (FCN No. 61)
810	C18A2	9	Transfer Girders Fabrication Delay
811	C18A2	29	Standby Switchgear Room #302 (FCN No. 46)
812	C18A2	76	Standby Electric Room Additional Ceiling (FCN 72)
813	C18A2	35	T31 Granite Anchors
814	C18A2	67	600V Rated Wires & Cables (FCN 66)
815	C18A2	97	Revise Granite Support Analysis (RFI 193)
816	C18A2	98	Coordination With C22A9, Hardware and Security (FCN 85)
817	C18A2	105	Door Height Adjustment (FCN No. 97)
818	C20B1	281	Global Settlement
819	C09A4	496	FCN 588 - Pullbox Cover Fireproofing
627	PW		Project Wide Waterproofing Issue
627.1			Waterproofing - Leaks due to Design Errors on C19E1 and C11A1
627.3			Waterproofing - Materials
627.4			Waterproofing - Corrosion
628	PW		Project Wide Pavement Issue
820	PW	none	Project-wide delay
820.a			Potential Project Wide Acceleration Recovery - Project
820.b			Potential Elements of Project Wide Delay Recovery - D017A
820.c			Potential Elements of Project Wide Delay Recovery - D015A
820.d			Potential Elements of Project Wide Delay Recovery - D022A
F081	C08A1		Replace Lighting Circuit and Feeders
F082	C08A1		Estimated Claim
F083	C08A1		Un-approved Mods currently listed in Oracle
F084	C08A1		Anticipated Engineering Claim
F085	C08A1		Bent - 5 (renumbering of 676.2)
F151	C15A3		Estimated Claim-Impacts resulting from electrical changes
F152	C15A3		Un-approved Mods
F171	C17A6		Un-approved Mods
F172	C17A6		Estimated Claim-Impacts resulting from changes
F173	C17A9		Underpinning
F174	C17A9		Acceleration due to Underpinning
F181	C17A6		Anticipated Delay Claim for CR #580 - Electrical equipment work-around for AIS and Dewey Square Tunnel.



## Cost Recovery Issues

Issue	Contract	Mod#
F191	C19E6	Un-approved Mods
F192	C19E6	Estimated Claim-Impacts resulting from changes
F201	C20B2	15kv Cable Rework @ AIS Vault
F202	C20B2	Un-approved Mods
F221	C22A2	Future cost I-90/I-93 radio system