

**Texas Department of Transportation**  
**BOOK 2 – TECHNICAL PROVISIONS**  
**FOR**  
**US 181 HARBOR BRIDGE PROJECT**  
**Design-Build Project**  
**ATTACHMENT 19-7**  
**TXDOT FUNCTION CODES FOR MMS**



# ATTACHMENT 19-7 : MAINTENANCE PLANNING ACTIVITIES & ASSOCIATED FUNC. CODES

All segment 78 functions are trackable

## DISTRICT CROSS REFERENCE CODE CHART 12 (FIMS SEGMENT 78, AND PORTIONS OF 70, 71 AND 72)

Effective September, 2012 (Rev Date: July, 2011)							
110 P03 CY	Removal and Replacement Removal of base and/or subgrade materials from distressed or failed areas and replacement with suitable materials. (Includes resurfacing.)	522 R0 MI	Street Sweeping Routine street sweeping. Units are the actual miles swept regardless of centerline miles.	593 T04 LF	Cable Median Barrier Installation and maintenance of high tension cable median barrier systems, including the cable, posts and end treatments.	733 T03 EA	Vandalized Signs Replacement or repair of signs damaged by vandalism.
120 P03 CY	In Place Repair In place repair base and/or subgrade material. (Includes resurfacing, and may or may not include additional stabilizing material.)	523 R1 MI	Debris Routine patrolling to remove and dispose of debris, including dead animals.	594 T04 LF	Concrete Barrier Installation, removal and maintenance of concrete barriers, including attached headlight barrier fence.	738 T11 EA	Installation and Maintenance of Flashing Beacons Installation and maintenance of overhead flashing beacons, pedestal or sign mounted flashing beacons, etc.
135 R05 EA LF	Install and/or Maintain Underdrains Installation, repair and maintenance of all types of underdrains.	524 R0 AC	Spot Litter Spot removal and disposal of litter, including dead animals, from the right of way.	595 T04 LF	Guard Fence Installation and maintenance of guard fence, MBGF, turn down ends, headlights barrier fence, including posts, metal beams, etc. (End treatment other than turn down ends, see function 596.)	742 T07 EA	illumination Installation, maintenance and operation of illumination systems, including continuous lighting, safety lighting and sign illumination.
145 S06 SY	Unpaved Road Maintenance Repair of gravel or dirt roads, including blading, addition of base, etc.	525 R0 HRS	Adopt-A-Highway Installation of posts and signs, materials furnished to groups, and the personnel and equipment used to assist in removal and disposal of collected litter.	596 T05 EA	Guardrail End Treatment Systems Installation and maintenance of guardrail end treatment systems. (For attenuators other than GETS, see function 725.)	743 T06 EA	Installation and Maintenance of Isolated Traffic Signals Maintenance and operation of isolated traffic signals, diamond interchange signals, etc.
211 P01 SY	Leveling or Overlay with Laydown Machine The application of asphaltic tack coat and placing of asphaltic concrete materials to improve the ride qualities or level up low spots.	526 R0 SY	Deleted replaced by 522	597 T03 EA	Mailboxes, Installation and Maintenance Installation, removal, maintenance and inspection of portable bridges.	744 T08 CL M	Replaced by Function Code 743 Traffic Management System
212 P01 SY	Leveling or Overlay with a Maintainer The application of asphaltic tack coat and placing layers of asphaltic concrete material.	527 R0 SY	Hand Sweeping Hand sweeping of riprap, islands, medians, curb & gutter, curbs, driveways, etc.	598 T03 EA	Boat Ramp Maintenance Work performed in maintaining boat ramps, including mowing, litter removal, emptying litter barrels, maintenance of paved and unpaved areas, etc.	745 T08 CL M	Maintenance and operation of traffic management systems on freeways or non-freeways, entrance/exit ramps, motorist information (e.g. changeable message signs, highway advisory radio, etc.) surveillance and related communications equipment. (ITS Control Center personnel should charge to segment 70, detail 0570.)
213 P01 SY	Leveling by Hand The application of asphaltic tack coat and placing layers of asphaltic concrete material by hand. This includes repair of pavement areas greater than one square foot in length.	530 S10 SF	Removal of Graffiti Removal of graffiti from fixtures, wing walls, bridge structures, etc. Not to be used in lieu of function 733 (Vandalized Signs), 731 or 732 (Sign Installation).	610 S04 HRS	Bridge, Movable Span Operation, routine maintenance and inspection of movable span bridges (swing bridge, lift or turn). Restricted use: Beaumont, Houston, Pharr and Yoakum Districts only.	750 T09 EA	Installation and Removal of Pavement Markers Installation and/or removal of traffic buttons or reflective pavement markers.
214 P01 SY	Leveling or Overlay with Drag Box The application of asphaltic tack coat and placing layers of asphaltic concrete material.	531 S06 HRS	Picnic Area Maintenance (Without Restrooms) Refer to function 532 for description.	611 S04 HRS	Bridge, Portable Installation, removal, maintenance and inspection of portable bridges.	790 S07 HR	Miscellaneous Traffic Services All traffic surveys (including all motor vehicle and pedestrian counts at intersections and directly related locations) and other traffic services not covered elsewhere. <b>Note:</b> Traffic control performed during the pavement evaluation process should be charged to segment 71, detail 3214 and the appropriate function (600 thru 690).
225 P06 LM	Sealing Cracks Cleaning, filling and sealing cracks in the pavement using asphaltic rubber or other sealants.	532 S06 HRS	Rest Area Maintenance (With Restrooms) Work performed in janitorial and grounds maintenance, including mowing, litter pickup, emptying litter barrels, maintenance of plantings, cleaning restroom, cleaning arbors, graffiti removal, minor paintings, etc. This item shall also include special maintenance required to repair/replace arbors, picnic tables, fixtures, litter barrels, paved areas, etc. (including maintenance of treatment plants and dump stations).	620 S05 CY	Bridge Channel Maintenance Removal of silt and drift, filling eroded areas, channel maintenance (including easements) and maintenance and repair of jetties and dikes.	799 S07 HR	Traffic Control The placement, maintenance and removal of barricades, signs, cones, lights and other such devices needed to handle traffic during emergencies or special events. This includes flaggers.
231 P05 SY	Seal Coat Application of a single layer of asphaltic material followed by the application of a single layer of aggregate over the full width of the lane or a shoulder (greater than 6' in width) for a minimum of 1000 continuous feet.	533 S06 HRS	Rest Area Facility Maintenance through Regional Contracts (Maintenance Division Use Only)	628 S02 LF	Bridge Rail Maintenance of bridge rail, posts & post connections to deck, including painting.	806	Replaced by Function Code 799
232 P04 SY	Strip or Spot Seal Coat Application of a single layer of asphaltic material followed by the application of a single layer of aggregate over areas less than the full width of the lane or shoulder (6' or less in width), or the full width of the lane or shoulder but less than 1000 feet in length.	535 S0 HRS	Maintenance of Specialty Facilities All maintenance costs to specialty facilities including border safety inspection facilities (BSIFs), toll booths, service plazas, fencing and associated appearances. This includes both temp and perm facilities. The highway class code will determine the type of facility.	645 S02 LF	Bridge Joint Maintenance Repair of bridge joints, including cleaning and sealing	807	Replaced by Function Code 799 Accident Flag selected
233 P04 SY	Fog Seal Retain aggregate, enliven surface and/or seal hairline cracks by the application of a thin layer of asphaltic material.	538 R0 AC	Pest Control Activities related to use of predatory animal and insect control whether in turf and ornamental sites or on the ROW.	646 S02 LF	Bridge Joint Replacement Replacement of bridge joints	809	Replaced by Function Code 799 Disaster Project;Task number
235 P04 SY	Microsurfacing The application of a polymer modified high performance emulsion coupled with fine graded aggregate, mineral fillers and special additives in a slurry, to full ruts or to a new wearing surface. (Caution: Should not be used to seal cracked pavements.)	540 R0 HRS	Hand Vegetation Control Hand clearing vegetation out of islands, medians, riprap, drainage channels, etc. by chemical, manual or mechanical means.	650 S01 SF	Bridge Deck Repair to bridge decks.	810	Replaced by Function Code 523 Disaster Project;Task number
241 P09 EA	Pothole Repair The repair of holes with an area of less than or equal to one square yard. Charge to Function 213 if greater than one square yard.	541 R0 AC	Chemical Vegetation Control, Edges Complete control of vegetation encroaching in pavement edges, shoulders, medians, islands and curbs with herbicides.	660 S01 SF	Bridge Superstructure, Concrete Routine maintenance of the concrete components of the bridge superstructure, including bearings, concrete diaphragms, and beams.	811	Emergency response to clear roads during or after a snow/ice event. Includes sanding, deicing, cleaning and removal, etc.
242	Replaced by Function 241	542 R0 AC	Chemical Vegetation Control, Overspray Control of undesirable vegetation growth by overspraying wide areas of the right of way including fixtures (i.e. signs, delineators, quadrants, culverts, etc.) with herbicides.	665 S01 SF	Bridge Superstructure, Steel Routine maintenance of the steel components of the bridge superstructure, including steel diaphragms and beams.	812	Replaced by Function Code 110, 120 Disaster Project;Task number
245 P10 SY	Adding or Widening Pavement Widening travel lanes up to 2 feet, adding shoulders up to 4 feet to correct a maintenance problem (includes sub-grade, base & surfacing), or adding turn lanes to improve safety.	544 R0 AC	Chemical Vegetation Control, Rope-wick Control of tall vegetation (i.e. Johnsongrass) in the right of way with a wick applicator.	670 S03 SF	Bridge Substructure, Concrete Routine maintenance of the concrete components of the bridge substructure, including caps, columns, abutments, wingwalls, pilings, etc.	822	Replaced by Function Code 360 Disaster Project;Task number
252 P02 SY	Milling and Planing The removal of pavement surface by milling or planing.	545 R0 HRS	Chemical Vegetation Control, Basal Application Control of undesirable brush species in the right of way with a low volume basal bark application.	675 S03 SF	Bridge Substructure, Steel and Timber Routine maintenance of the steel or timber components of the bridge substructure, including caps, abutments, pile extensions, etc.	823	Replaced by Function Code 211, 212, 213, 214
253 P02 SY	Spot Milling The removal of pavement surface by milling using a small milling machine (4 feet or less drum width).	548 R0 SY	Seeding, Sodding, Hydromulching and Blanketing Seeding, sodding, hydromulching and/or placing soil retention blankets.	680 S03 SF	Bridge Painting Cleaning and painting of superstructure or substructure.	824	Replaced by Function Code 231, 232 Disaster Project;Task number
265 P04 SY	Treat Bleeding Pavement Treatment of excess asphalt on the pavement surface.	551 R0 AC	Landscaping The installation or maintenance of landscape plantings and their facilities including planter walls, borders, sprinkler systems, etc. (excluding picnic and rest areas).	682	Bridge Mechanical and Electrical Maintenance and repair of the electrical & mechanical components of a bridge.	825	Replaced by Function Code 560,561,562,563
270 P07 LF	Edge Repair Repair of raveled, low or damaged pavement edges with asphaltic materials.	552 R0 CL	Tree and Brush Control The trimming, pruning and disposal of shrubs, vines, and trees (excluding picnic and rest areas).	690 S04 HRS	Fender Systems Installation and maintenance of fender systems.	826	Appropriate Bridge, Disaster Project;Task number
315 P08 SY	Slab Stabilization / Jacking Leveling concrete pavement through the use of hydraulically placed material.	558 R0 LF	Storm Water Pollution Protection Maintenance or installation of storm water pollution protection plan (SW3P) in accordance with EPA regulations on projects designated by area engineers.	695 S04 HRS	Performance Based Contract Distribution (Contract Payments ONLY) These contracts are set up to pay the contractor a fixed price on a periodic basis of type of work performed and/or amount of work performed	827	Replaced by whatever Function Code: Disaster or Damage Claim Project;Task number
325 P06 LF	Cleaning and Sealing Joints and Cracks Cleaning, filling and sealing joints and cracks in concrete pavement.	560 R06 SY	Riprap Installation and Maintenance Installation and maintenance of ditch liners, retards, down drains, riprap, flumes, concrete mowing strips, gabions, retaining walls and other erosion protection.	711 T01 LF	Paint and Bead Striping Striping or re-striping lane lines, centerlines and edge lines using paint and beads.	828	Replaced by Function Code 743; Disaster or Damage Claim Project;Task number
330 P08 SY	Blowouts and Stress Relief Repair of blowouts and cutting pavement for stress relief.	561 R04 CY	Ditch Maintenance Removal and hauling of silt, drift, and/or filling eroded areas. Not to be used for work at culverts or bridges (see functions 570 or 620).	712 T02 LF	High Performance Striping Striping or re-striping lane lines, centerlines and edge lines using thermoplastic or other high performance materials.	829	Replaced by Function Code 742; Disaster or Damage Claim Project;Task number
345 P08 SY	Repair Sealing Clean and repair spalled areas (not full depth of concrete slab).	562 R04 LF	Reshaping Ditches Reshaping ditches using maintainer and/or gradall, etc. Not to be used for work at culverts or bridges (see functions 570 or 620).	715 T02 LF	Removal of Pavement Striping Use when striping is not going to be replaced.	830	Hazardous Material Clean up, Spills or Leaking Storage Tanks
360 P08 SY	Full Depth Removal and Replacement The removal and replacement of failed areas for the full depth of the concrete slab.	563 R06 SY	Slope Repair/Stabilization Slope repair and/or stabilization. Not to be used for work at culverts or bridges (see functions 570 or 620).	716 S11 LM	Performance Based Contract Distribution (Contract Payments ONLY) These contracts are set up to pay the contractor a fixed price on a periodic basis of type of work performed and/or amount of work performed	831	Investigations, testing, clean up, removal, disposal and restoration work associated with a spill or leaking storage tanks.
455 P07 LF SY	Reshaping Unpaved Shoulders Restore sod or flexible base shoulders to original sections. Includes reshaping front slope to eliminate low pavement edges along a paved shoulder.	570 R0 EA	Culvert and Storm Drain Maintenance The installation, repair and maintenance of culverts up to bridge classification (twenty feet measured along centerline of roadway). This work includes silt and debris removal from inlet, storm drains, retention ponds and culverts (except those costs associated with function 571).	721 T03 EA	Delineators Installation, maintenance and/or replacement of damaged or missing reflectors and/or posts. This function shall include straightening of posts. Measured by each post and each reflector replaced.	832	Investigations, testing, clean up, removal, disposal and restoration work associated with abandoned hazardous materials of unknown ownership.
480 S08 SY	Side Road Approaches, Crossovers and Turnouts The installation or maintenance of side road approaches, crossovers, historical markers, mailbox and litter barrel turnouts, etc.	571 R0 EA	Storm Water Pump Station Maintenance Repair and maintenance of motors, pumps, generators, wet wells, dry wells, debris screening baskets, buildings, etc., including costs of utility services.	724 T04 LF	Vehicle Access Control Installation and maintenance of barriers (other than those covered by functions 594 or 595) designed to control access on highways, including post and cable fences, ROW fences and cattle guards.	833	Investigations, testing, clean up, removal, disposal and restoration work associated with abandoned hazardous materials of unknown ownership.
488 S08 SY	Concrete Appearance Installation and Maintenance The maintenance, installation, or removal of concrete appearances which include curbs and/or gutters, raised medians, sidewalks and sound barriers.	580 T03 EA	Removal of Illegal Signs on ROW, TEMP (Temporary, no special handling required.) Removal of illegal signs on right of way, including disposal and written notice to owners.	725 T05 EA	Vehicle Attenuators Installation and maintenance of vehicle attenuators, crash cushions, etc. (Excludes the end treatment devices on guard fence.)	834	Replaced by Function Code 799 Disaster Project;Task number
495 S06 SY	Parking Area Maintenance Repair of sub-grade, base or surface of areas including parking lots, park and ride lots and camping pads.	581 T03 EA	Removal of Illegal Signs on ROW, PERM (Permanent, special handling required.) Removal of illegal signs on right of way, including disposal and written notice to owners.	731 T03 EA	Installation/Maintenance of Small Signs The installation and maintenance of signs (less than 4 ft. X 4 ft.). Includes the installation of a new sign on an existing post, the installation of a new sign on an existing post, removing or straightening of signs and posts. Not to be used in lieu of function 732 (Installation of Large Signs), function 733 (Vandalized Signs), or function 525 (Adopt-A-Highway).	835	Deleted
511 R02 AC	Mowing Mowing of the right of way.	582 S10 HRS	Removal of Encroachments, Other than Signs Removal of illegal encroachments (other than signs) on the ROW, including disposal and written notice to owners.	732 T10 EA	Installation/Maintenance of Large Signs The installation or maintenance of signs (equal to or greater than 4 ft. X 4 ft.) includes the installation of a new sign on an existing post, the installation of a new sign on an existing post, removing or straightening of signs and posts. Not to be used in lieu of function 731 (Installation of Small Signs), function 733 (Vandalized Signs), or function 525 (Adopt-A-Highway).	836	Replaced by Function Code 110, 120 Disaster Project;Task number
513 R02 HRS	Spot Mowing Spot mowing of the right of way.	585 S08 SY	Driveway Installation/Removal and Maintenance See access management policy.	590	Debris Removal Removal of debris from the entire right of way, excluding paved areas, picnic and rest areas.	837	Replaced by Function Code 360 Disaster Project;Task number
520 R10 CY	Illegal Debris Removal and Disposal Removal and disposal of debris discarded or deposited in an unauthorized area in the right of way such as under a bridge, overpass, culvert, etc.	591 S09 HRS	Utilities and Driveway Inspection	590	Debris Removal Removal of debris from the entire right of way, excluding paved areas, picnic and rest areas.	838	Replaced by Function Code 211, 212, 213, 214
521 R03 AC	Litter Removal and disposal of litter from the entire right of way, excluding paved areas, picnic and rest areas.			590	Debris Removal Removal of debris from the entire right of way, excluding paved areas, picnic and rest areas.	839	Replaced by Function Code 231, 232 Disaster Project;Task number
	P01 Pavement Leveling		R01 Sweeping		S01 Bridge Superstructure Maintenance		Appropriate Bridge, Disaster Project;Task number
	P02 Milling		R02 Mowing		S02 Bridge Rail and Joints		Replaced by Function Code 743; Disaster or Damage Claim Project;Task number
	P03 Base Repair		R03 Litter Control		S03 Bridge Substructure Maintenance		Replaced by Function Code 742; Disaster or Damage Claim Project;Task number
	P04 Spot Seal Coat		R04 Drainage Maintenance		S04 Specialty Bridge Maintenance		Replaced by Function Code 560,561,562,563
	P05 Full Width Seal Coat		R05 Drainage Structures		S05 Bridge Channel Maintenance		Replaced by Function Code 231, 232 Disaster Project;Task number
	P06 Crack Seal		R06 Erosion Control		S06 Specialty Maintenance		Replaced by Function Code 211, 212, 213, 214
	P07 Edge Maintenance		R07 Vegetation and Pest Control		S07 Traffic Control Services		Replaced by Function Code 560,561,562,563
	P08 Concrete Pavement Maintenance		R08 Tree and Brush Control		S08 County Road Approaches, Crossovers, & Turnouts		Replaced by Function Code 231, 232 Disaster Project;Task number
	P09 Pothole Repair		R09 Landscape Maintenance		S09 Utility & Driveway Inspection		Replaced by Function Code 231, 232 Disaster Project;Task number
	P10 Adding or Widening Pavement		R10 Debris and Cleanup		S10 Graffiti & Encroachment Removal		Replaced by Function Code 560,561,562,563
							Replaced by Function Code 799
							Replaced by Function Code 799 Accident Flag selected
							Replaced by Function Code 799 Disaster Project;Task number
							Replaced by Function Code 523 Disaster Project;Task number
							Snow and Ice Response
							Emergency response to clear roads during or after a snow/ice event. Includes sanding, deicing, cleaning and removal, etc.
							Replaced by Function Code 799 Disaster Project;Task number
							Replaced by Function Code 563 Disaster Project;Task number
							Deleted
							Replaced by Function Code 110, 120 Disaster Project;Task number
							Replaced by Function Code 360 Disaster Project;Task number
							Replaced by Function Code 360 Disaster Project;Task number
							Replaced by Function Code 211, 212, 213, 214
							Replaced by Function Code 231, 232 Disaster Project;Task number
							Replaced by Function Code 560,561,562,563
							Appropriate Bridge, Disaster Project;Task number
							Replaced by whatever Function Code: Disaster or Damage Claim Project;Task number
							Replaced by Function Code 743; Disaster or Damage Claim Project;Task number
							Replaced by Function Code 721,731,732; Disaster or Damage Claim Project;Task number
							Replaced by Function Code 742; Disaster or Damage Claim Project;Task number
							Hazardous Material Clean up, Spills or Leaking Storage Tanks
							Investigations, testing, clean up, removal, disposal and restoration work associated with a spill or leaking storage tanks.
							Hazardous Material Clean up, Abandoned Materials
							Investigations, testing, clean up, removal, disposal and restoration work associated with abandoned hazardous materials of unknown ownership.
							<b>Maintenance Section Overhead Costs</b>
							Detail 08XX (XX = Office No.); not reasonably identifiable to a roadway
							Training (informal or on-the-job training)
							Meetings (non-coded meetings; Safety Banquets)
							Yard Maintenance and Inspections (maintenance/inspections to facilities or yard)
							Office/Section Administration (pick up/purchase supplies, HR admin., office tech duties)
							Section Support (customer support, contractor support, damage claims)
							Section Management (checking on crews, supervisor admin, meeting with local govts.)
							Material Management (inventory maint, material deliveries from WH to yard, hauling)
							Standby Time (weekend and weekday)
							General Overhead
							<b>District Contract Management - Roadway Maintenance</b>
							(not reasonably identifiable to a roadway)
							Detail 0585
							All district costs of roadway maintenance contract development and management not reasonably identifiable to a specific roadway or other accounts.
							<b>Segment</b>
							<b>71</b>
							<b>Direct District Charges (No specified road location)</b>
							Detail 1305, function 020; field inspections not identifiable to a roadway, including damage assessments, night inspections, permit inspections, bridge inspections
							Detail 1310, function 020; special services not identifiable to a roadway, including cleaning stockpile locations, collecting ditch grade data, and counting loads of RAP for county assistance.
							Detail 1315, function 020; Courtesy Patrol
							<b>Roadway Evaluation</b>
							Detail 3214, function codes 600 thru 690; functions related to Pavement Management, including traffic control while performing pavement evaluation
							<b>Segment</b>
							<b>72</b>
							<b>Off-System Disaster Cleanup</b>
							Detail 000470001; off-system assistance that has been approved by the Disaster District Chairman
							Debris Removal
							Fire Control
							Evacuee Assistance
							Traffic Control for Disasters
							Sign and Signal Repair for Disasters
							Repairs to Roads for Disasters
							500
							501
							510
							515
							520
							T01
							T02
							T03
							T04
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