

**ATTACHMENT 1: PERFORMANCE REQUIREMENTS**

**[MOVED TO COMA EXHIBIT 16]**

**ATTACHMENT 2: ELEMENTS FOR WHICH MAINTENANCE SERVICES ARE TO BE PROVIDED**

Maintenance Element Category	Maintenance Element
<b>Roadway</b>	Pavement
	Crossovers and other paved areas
	Joints in concrete
	Curbs
<b>Drainage</b>	Pipes and channels
	Drainage treatment devices
	Discharge systems
<b>Structures</b>	Structures having an opening measured along the center of the roadway of more than 20 feet between undercopings of abutments or springlines of arches or extreme ends of openings or multiple boxes
	Structure components
	Substructures and superstructures
	Non-bridge class culverts
	Gantries
	Access points
	Mechanically stabilized earth and retaining walls
<b>Pavement markings, object markers, barrier markers and delineators</b>	Pavement markings
	Raised pavement markers
	Delineators and markers
	Mailbox Marker
<b>Guardrails, safety barriers and impact attenuators</b>	Concrete barriers
	Guardrails and safety barriers

<b>Maintenance Element Category</b>	<b>Maintenance Element</b>
	Attenuators
<b>Traffic signs</b>	Large guide signs
	Traffic signs
<b>Highway Lighting</b>	Highway lighting
<b>Fences, walls and sound abatement</b>	Fence
	Walls
	Sound Abatement
	Access gates
<b>Roadside management</b>	Vegetated areas – except landscaped areas – general
	Landscaped areas
	Fire hazards
	Trees, brush and ornamentals
	Wetlands
<b>Pedestrian Features</b>	Sidewalks
	ADA Ramps or features
<b>Earthworks and cuttings</b>	Slopes
<b>Other</b>	All other physical components of the Project within the maintenance limits except for the Non-Maintained Elements

**ATTACHMENT 3: SCHEMATIC DESIGN ROW MAINTENANCE**

**[SEE ATTACHED]**

**ATTACHMENT 4: NOT USED**

**ATTACHMENT 5: NOT USED**

## ATTACHMENT 6: RESTRICTIONS ON LANE CLOSURES

### 6.1 Allowable Lane Closures

Lane Closures will only be permitted when Maintenance Contractor can demonstrate that the closure will provide clear benefit to the progress of the Maintenance Services. Closures must be coordinated with adjacent projects and priority shall be given to the closure submitted first.

The safety of workers and the traveling public must be the first consideration when determining the appropriate time to implement a lane closure.

At a minimum, Maintenance Contractor shall inform the TxDOT public information officer by 3:15 p.m. on the previous day of all road closures or major lane closures that will affect mobility so they can inform the public, Emergency Services, schools, etc. as needed.

Prior to implementing any lane closure, Maintenance Contractor shall input lane closure information into the Highway Conditions and Reporting System.

The following TxDOT policy and procedure manuals and references apply for all lane closures:

- Texas Manual of Uniform Traffic Control Devices (TMUTCD)
- TxDOT Traffic Control Plan Standards
- TxDOT Barricade and Construction Standards
- TxDOT Standard Specifications "Item 502 (Barricades Signs and Traffic Handling)

The following lane closure requirements for the mainlane, frontage roads, and cross streets are intended to supplement the above list of manuals and references for the Project:

**Table 6-1: Lane Closure Requirements**

Roadway	Roadway Lanes (one direction)	Permitted Lane Closures		
		Peak Times* Monday-Friday (6:00 am - 9:00 am) (3:30 pm - 7:00 pm) and Major Events and Major Holidays	Off-Peak Times* Monday-Friday (9:00 am - 3:30pm) (7:00 pm to 10:30 pm) and Saturday	Lowest Volume Times* Monday-Friday (10:30 p.m. to 6:00 a.m.) and Sunday (No mainlane closures shall be permitted on Sunday)
Frontage Roads and Cross Streets	3	None	1	2
	2	None	1	1

Roadway	Roadway Lanes (one direction)	Permitted Lane Closures		
Mainlanes and Ramps	3	None	1	1
	2	None	None	1
	1	None	None	None

Additional requirements:

- Any complete roadway closure will require a Traffic Control Plan with appropriate detour routing to be submitted and approved by TxDOT.
- Maintenance Contractor shall seek TxDOT's approval for all required lane closures at least 48 hours in advance for temporary lane closures and fourteen (14) days for complete closures.
- If reasonable mobility can be maintained, or exceptional circumstances exist, additional lanes may be closed during Off-Peak Times or Lowest Volume Times with the express written permission of the TxDOT project manager. Off-Peak Times may be started earlier or be extended later, subject to obtaining such express written permission, if reasonable mobility can be maintained.
- If at any time backups become unreasonable, (>20 min.), Maintenance Contractor shall immediately undertake modifications to alleviate the congestion. Contingency plan of how this will occur should be in place and approved by the TxDOT Project Manager.
- Use off duty uniformed peace officers as directed by the Maintenance Contractor.
- Inclement weather should be considered when planning closures.
- Maintenance Contractor shall maintain continuous construction Work adjacent to closed traffic lanes.

## 6.2 Driveway Closures

Maintenance Contractor shall maintain a minimum of one driveway per business at all times. For businesses with multiple driveways, when driveway closure is necessary to progress Work, no driveway may be closed for more than three (3) consecutive days.

## 6.3 Detour Usage

Maintenance Contractor shall use State routes for detour routes, wherever applicable. If State routes are unavailable, Maintenance Contractor shall use local roadways, provided that Maintenance Contractor has obtained TxDOT approval and the necessary permits from the Governmental Entity having jurisdiction.

Maintenance Contractor shall provide motorists with guidance on the use of alternate routes to divert traffic around the construction, detouring around specific construction sites, and traveling through the construction areas. This shall include the installation and maintenance of temporary regional signs. Motorist guidance to and along detour routes shall be provided, together with regional guidance.



## 6.4 Restricted Hours

### A. Holiday Restrictions

Maintenance Contractor shall maintain existing SH 360 facility capacity, from 12:00 p.m. (noon) on the day preceding, to 10:00 pm on the day after, the the major holidays (“Major Holidays”) set forth below. No additional lane or ramp closure that restricts or interferes with traffic shall be allowed. TxDOT has the right to lengthen, shorten, or otherwise modify these restrictions as actual traffic conditions may warrant.

- a) New Year’s Eve and New Year’s Day (December 31 through January 1)
- b) Easter Holiday Weekend (Friday through Sunday)
- c) Memorial Day Weekend (Friday through Monday)
- d) Independence Day (July 3 through July 5)
- e) Labor Day Weekend (Friday through Monday)
- f) Thanksgiving Holiday (Wednesday through Sunday)
- g) Christmas Holiday (December 23 through December 26)

### B. Event Restrictions

Maintenance Contractor shall maintain existing SH 360 facility capacity for the regional events set forth below (“Major Events”). No additional lane or ramp closure that restricts or interferes with traffic shall be allowed during Major Events. TxDOT has the right to lengthen, shorten, or otherwise modify these restrictions as actual traffic conditions may warrant. TxDOT also has the right to modify the list of Major Events as they are added, rescheduled or warranted:

- a) Any events held within a ten(10) mile radius of any point along the length of the corridor with an expected attendance greater than 20,000 (restricted from three (3) hours before the start of the event to two (2) hours after the end of the event); and
- b) Major retail traffic generators (i.e. malls) within one (1) mile radius (Thanksgiving Day through January 2).



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

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

All segment 78 functions are trackable

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.)
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.)
135 R05 EA LF	Install and/or Maintain Underdrains Installation, repair and maintenance of all types of underdrains.
145 S06 SY	Unpaved Road Maintenance Repair of gravel or dirt roads, including blading, addition of base, 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.
212 P01 SY	Leveling or Overlay with a Maintainer The application of asphaltic tack coat and placing layers of asphaltic concrete material.
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.
214 P01 SY	Leveling or Overlay with Drag Box The application of asphaltic tack coat and placing layers of asphaltic concrete material.
225 P06 LM	Sealing Cracks Cleaning, filling and sealing cracks in the pavement using asphaltic rubber or other sealants.
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.
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.
233 P04 SY	Fog Seal Retain aggregate, enliven surface and/or seal hairline cracks by the application of a thin layer of asphaltic material.
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.)
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.
242 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.
252 P02 SY	Milling and Planing The removal of pavement surface by milling or planing.
253 P02 SY	Spot Milling The removal of pavement surface by milling using a small milling machine (4 feet or less drum width).
265 P04 SY	Treat Bleeding Pavement Treatment of excess asphalt on the pavement surface.
270 P07 LF	Edge Repair Repair of raveled, low or damaged pavement edges with asphaltic materials.
315 P08 SY	Slab Stabilization / Jacking Leveling concrete pavement through the use of hydraulically placed material.
325 P06 LF	Cleaning and Sealing Joints and Cracks Cleaning, filling and sealing joints and cracks in concrete pavement.
330 P08 SY	Blowouts and Stress Relief Repair of blowouts and cutting pavement for stress relief.
345 P08 SY	Repair Sealing Clean and repair spalled areas (not full depth of concrete slab).
360 P08 SY	Full Depth Removal and Replacement The removal and replacement of failed areas for the full depth of the concrete slab.
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.
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.
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.
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.
511 R02 AC	Mowing Mowing of the right of way.
513 R02 HRS	Spot Mowing Spot mowing of the right of way.
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.
521 R03 AC	Litter Removal and disposal of litter from the entire right of way, excluding paved areas, picnic and rest areas.
P01	Pavement Leveling
P02	Milling
P03	Base Repair
P04	Spot Seal Coat
P05	Full Width Seal Coat
P06	Crack Seal
P07	Edge Maintenance
P08	Concrete Pavement Maintenance
P09	Pothole Repair
P10	Adding or Widening Pavement
R01	Sweeping
R02	Mowing
R03	Litter Control
R04	Drainage Maintenance
R05	Drainage Structures
R06	Erosion Control
R07	Vegetation and Pest Control
R08	Tree and Brush Control
R09	Landscape Maintenance
R10	Debris and Cleanup
S01	Bridge Superstructure Maintenance
S02	Bridge Rail and Joints
S03	Bridge Substructure Maintenance
S04	Specialty Bridge Maintenance
S05	Bridge Channel Maintenance
S06	Specialty Maintenance
S07	Traffic Control Services
S08	County Road Approaches, Crossovers, & Turnouts
S09	Utility & Driveway Inspection
S10	Graffiti & Encroachment Removal
T01	Paint and Bead Striping
T02	High Performance Striping
T03	Sign Maintenance
T04	Safety Barrier Maintenance
T05	Crash Attenuators
T06	Traffic Signal Maintenance
T07	Illumination Maintenance
T08	Traffic Management Systems
T09	Raised Pavement Markings
T10	Large Sign Maintenance
T11	Beacon Maintenance