

# Points and Crossings Service Schedule

ETW-03-03

## Applicability

ARTC Network Wide

SMS

## Publication Requirement

Internal / External

## Primary Source

Nil

## Document Status

Version #	Date Reviewed	Prepared by	Reviewed by	Endorsed	Approved
1.0	03 Sep 24	Standards	Stakeholders	Principal Track Standards Engineer	GM Technical Services & Assurance 02/12/2024

## Amendment Record

Amendment Version #	Date Reviewed	Clause	Description of Amendment
1.0	03 Sep 24		First Issue - The service schedules list the tasks that are to be undertaken during general and detailed inspections specific to points and crossing assemblies.

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## **1 Introduction**

### **1.1 Purpose**

The purpose of this instruction schedule is to consolidate multiple Track and Civil Service Schedules (Ellipse Standards Jobs) into one document.

### **1.2 Scope**

This work instruction is a listing of Track and Civil Service Schedules / Standard Jobs which cover the actions required when maintaining a specific item of equipment.

### **1.3 Document Owner**

The Manager Engineering Services is the Document Owner. Queries should be directed to [standards@artc.com.au](mailto:standards@artc.com.au) in the first instance.

### **1.4 Responsibilities**

The Track Inspector is responsible for the completion and reporting of General and Detailed P&C inspections in compliance with ETP-03-01 and ETS-03-00.

The Area Manager (or equivalent) is responsible for the scheduling of inspections in compliance with the TMP, supervising the inspection performance and management of defects found.

The Corridor Manager (or equivalent) is responsible for oversight of the inspection process and for the adequate resourcing of the Area Manager (or equivalent) with personnel, skills, tools and equipment.

### **1.5 Parent Document**

This work instruction supports ETP-00-03 Civil Technical Maintenance Plan.

### **1.6 Definitions**

Definitions relevant to this work instruction are defined in the parent procedure, ETP-00-03 Civil Technical Maintenance Plan

**2 Table of Service Schedule / Standards Jobs**

<b>STANDARD JOB</b>	<b>STANDARD JOB DESCRIPTION</b>	<b>PAGE</b>
TURN01	DETAILED INSPECTION OF POINTS AND CROSSINGS (TURNOUTS)	5
TURN02	GENERAL INSPECTION OF POINTS AND CROSSINGS (TURNOUTS)	8
TURN21	DETAILED INSPECTION OF POINTS AND CROSSINGS (CATCH POINTS)	11
TURN22	GENERAL INSPECTION OF POINTS AND CROSSINGS (CATCH POINTS)	13
TURN31	DETAILED INSPECTION OF POINTS AND CROSSINGS (DIAMONDS)	15
TURN32	GENERAL INSPECTION OF POINTS AND CROSSINGS (DIAMONDS)	17

<b>DETAILED INSPECTION OF POINTS AND CROSSINGS (TURNOUTS)</b>
<b>ELLIPSE STANDARD JOB: TURN01</b>
<p><b>PERSONNEL</b></p> <p>TRACK EXAMINER &amp; CERTIFIER</p> <p><b>EQUIPMENT</b></p> <p>TRACK GAUGE, ARTC TURNOUT INSPECTION GAUGES, STEEL RULER</p>
<p><b>PREPARATION</b></p> <ol style="list-style-type: none"> <li>1. OBTAIN LIST OF CURRENT DEFECTS</li> <li>2. OBSERVE THE APPROPRIATE NETWORK RULES AND PROCEDURES</li> <li>3. PERFORM PRE-WORK SAFETY BRIEF</li> <li>4. CO-ORDINATING THIS TASK WITH SIGNALS TEAM MAY SAVE TIME AND IMPROVE OUTCOMES</li> </ol>
<p><b>COMMENCE WORK</b></p> <p><b>GENERAL TASKS</b></p> <ol style="list-style-type: none"> <li>5. INSPECT FOR DAMAGED, LOOSE, MISSING, OR BROKEN COMPONENTS</li> <li>6. CHECK TRACK GEOMETRY, MEASURE ANY SUSPECTED FAULTS</li> <li>7. CHECK AND RECORD BEARER AND FASTENER EFFECTIVENESS AND GENERAL CONDITION</li> <li>8. CHECK AND RECORD BALLAST CONDITION, FOULING AND PROFILE</li> <li>9. CHECK CONDITION OF WELDS AND JOINTS</li> <li>10. CHECK FOR BROKEN STEELWORK (CROSSING, POINTS, RAILS)</li> <li>11. CHECK FOR INDICATORS OF RAIL CREEP, POSITION OF ANTI-CREEP BLOCKS, SWITCH SQUARENESS</li> <li>12. CHECK CONDITION OF RAIL</li> <li>13. LOOK FOR INDICATORS OF INCORRECT WHEEL/RAIL INTERACTION</li> <li>14. LOOK FOR AND REMOVE ANY DEBRIS THAT MAY OBSTRUCT MOVING PARTS</li> </ol> <p><b>POINTS TASKS (REPEAT FOR LEFT AND RIGHT)</b></p> <ol style="list-style-type: none"> <li>15. MEASURE AND RECORD SWITCH OPENING</li> <li>16. MEASURE AND RECORD TRACK GAUGE AT THE SWITCH TIP</li> <li>17. MEASURE AND RECORD BACK OF SWITCH BLADE TO OPPOSITE GAUGE FACE AT TIP</li> <li>18. MEASURE AND RECORD BACK OF SWITCH BLADE TO OPPOSITE SWITCH RAIL AT SUPPLEMENTARY DRIVE OR STRETCHER</li> <li>19. MEASURE AND RECORD THROAT OPENING</li> <li>20. CHECK SWITCH BLADE AND STOCK RAIL FOR METAL FLOW, CRACKING AND DAMAGE BREAKOUT</li> <li>21. CHECK AND RECORD INDICATORS OF SWITCH ALIGNMENT ISSUES</li> <li>22. MEASURE AND RECORD SWITCH BLADE CLOSED GAP</li> <li>23. MEASURE AND RECORD TIP WIDTH (CONVENTIONAL ONLY)</li> <li>24. MEASURE AND RECORD TIP HEIGHT (CONVENTIONAL ONLY)</li> <li>25. MEASURE AND RECORD SWITCH TIP WHEEL CLEARANCE (UNDERCUT ONLY)</li> </ol>

<b>DETAILED INSPECTION OF POINTS AND CROSSINGS (TURNOUTS)</b>
<b>ELLIPSE STANDARD JOB: TURN01</b>
<ul style="list-style-type: none"> <li>26. MEASURE AND RECORD FOR SWITCH BLADE DAMAGE, MEASURE IF PRESENT</li> <li>27. MEASURE AND RECORD GAUGE FACE ANGLE</li> <li>28. CHECK FOR DAMAGED, MISSING OR LOOSE HEEL BLOCK AND BOLTS</li> <li>29. CHECK FOR DAMAGED, MISSING OR LOOSE ANTI-CREEP DEVICES AND BOLTS</li> <li>30. CHECK AND RECORD DAMAGE TO RAIL BRACE/CHAIR, SLIDE PLATES AND ROLLERS</li> <li>31. CHECK AND RECORD DAMAGED, LOSE OR INEFFECTIVE SWITCH STOPS</li> <li>32. CHECK FOR LOOSE, BROKEN OR MISSING SPREADER BARS</li> <li>33. MEASURE AND RECORD GAPS BETWEEN SWITCH AND CHAIRS/BASEPLATES</li> <li>34. CHECK SLIDE PLATE LUBRICATION.</li> </ul>
<b>HOUSED POINTS TASKS (ONLY WHERE APPLICABLE)</b>
<ul style="list-style-type: none"> <li>35. MEASURE AND RECORD RAIL FLANGEWAY AND HOUSING FLANGEWAY CLEARANCE</li> <li>36. MEASURE AND RECORD TOP OF HOUSING ABOVE CHECKRAIL</li> <li>37. MEASURE AND RECORD VERTICAL CLEARANCE BETWEEN SWITCH TIP AND HOUSING</li> <li>38. MEASURE AND RECORD OPEN THROW DIMENSION</li> <li>39. MEASURE AND RECORD WIDTH OF HOUSING</li> <li>40. MEASURE AND RECORD FLARE AT END OF HOUSING AND CHECK RAIL</li> </ul>
<b>FIXED CROSSING TASKS (ONLY WHERE APPLICABLE)</b>
<ul style="list-style-type: none"> <li>41. MEASURE AND RECORD GAUGE AT NOSE</li> <li>42. MEASURE AND RECORD CHECKRAIL EFFECTIVENESS</li> <li>43. MEASURE AND RECORD CROSSING NOSE WIDTH</li> <li>44. CHECK AND RECORD CRACKS AND BREAKOUTS ON CROSSING</li> <li>45. CHECK AND RECORD CROSSING FLANGEWAY</li> <li>46. CHECK FOR CRACKED, BROKEN OR MISSING CROSSING SPACER BLOCKS AND BOLTS</li> <li>47. MEASURE AND RECORD WING RAIL WEAR</li> <li>48. CHECK FOR METAL FLOW, CRACKS AND BREAKOUTS ON WING RAIL</li> <li>49. MEASURE WING RAIL FLARE</li> <li>50. MEASURE CHECK RAIL FLANGEWAY</li> <li>51. MEASURE CHECK RAIL FLARE</li> <li>52. CHECK FOR CRACKED, BROKEN OR MISSING CHECK RAIL SPACER BLOCKS AND BOLTS</li> </ul>
<b>SWINGNOSE CROSSING TASKS (ONLY WHERE APPLICABLE)</b>
<ul style="list-style-type: none"> <li>53. MEASURE AND RECORD POINT RAIL CLOSED GAP</li> <li>54. CHECK WING RAIL FLARE</li> </ul>

<b>DETAILED INSPECTION OF POINTS AND CROSSINGS (TURNOUTS)</b>
<b>ELLIPSE STANDARD JOB: TURN01</b>
<p>55. MEASURE AND RECORD TRACK GAGUE AT THE CROSSING NOSE</p> <p>56. CHECK FOR METAL FLOW, CRACKS AND BREAKOUTS ON CROSSING AND WING</p> <p>57. CHECK AND RECORD INDICATORS OF INCORRECT NOSE ALIGNMENT</p> <p>58. MEASURE AND RECORD SWING NOSE POINT RAIL DAMAGE</p> <p>59. MEASURE AND RECORD SWING NOSE POINT PROTRUSION</p> <p>60. MEASURE AND RECORD SWING NOSE POINT DAMAGE</p> <p>61. MEASURE AND RECORD GAUGE FACE ANGLE</p> <p>62. CHECK FOR CRACKS AND BREAKOUTS HEEL BLOCKS AND BOLTS</p> <p>63. CHECK FOR LOOSE, CRACKED, BROKEN OR MISSING ANTI-CREEP DEVICES</p> <p>64. MEASURE AND RECORD PROTRUSION, CRACKS AND BREAKOUTS SPLICE JOINT</p> <p>65. CHECK AND RECORD DAMAGED, LOSE OR INEFFECTIVE RAIL BRACE/CHAIR, SLIDE PLATES AND ROLLERS</p> <p>66. CHECK AND RECORD CRACKED, INEFFECTIVE, BROKEN OR MISSING SWING NOSE STOPS</p> <p>67. MEASURE AND RECORD GAPS BETWEEN SWING NOSE AND CHAIRS/BASEPLATES</p> <p><b>SWITCH OPERATION TASKS</b></p> <p>68. CHECK DRIVE, LOCK OR DETECTION BARS BINDING ON UNDERSIDE OF RAIL</p> <p>69. CHECK HAND OPERATED LEVER (NON-INTERLOCKED YARDS AND SIDINGS) LUBRICATION, OPERATION AND CONDITION OF EQUIPMENT AND VISIBILITY OF INDICATORS.</p> <p>70. CHECK SLIDE PLATE LUBRICATION AND CONDITION OF ROLLERS (also spring wing)</p>
<p><b>CLOSE OUT</b></p> <p>71. ENSURE ANY TOOLS / EQUIPMENT ARE REMOVED FROM TRACK</p> <p>72. RECORD INSPECTION BY CLOSING MST / WORK ORDER</p> <p>73. UPDATE DEFECT LIST AND RECORD FOLLOW UP ACTIONS</p>

<b>GENERAL INSPECTION OF POINTS AND CROSSINGS (TURNOUTS)</b>
<b>ELLIPSE STANDARD JOB: TURN02</b>
<p><b>PERSONNEL</b></p> <p>TRACK EXAMINER &amp; CERTIFIER</p> <p><b>EQUIPMENT</b></p> <p>TRACK GAUGE, ARTC TURNOUT INSPECTION GAUGES, STEEL RULER</p>
<p><b>PREPARATION</b></p> <ol style="list-style-type: none"> <li>1. OBTAIN LIST OF CURRENT DEFECTS</li> <li>2. OBSERVE THE APPROPRIATE NETWORK RULES AND PROCEDURES</li> <li>3. PERFORM PRE-WORK SAFETY BRIEF</li> <li>4. CO-ORDINATING THIS TASK WITH SIGNALS TEAM MAY SAVE TIME AND IMPROVE OUTCOMES</li> </ol>
<p><b>COMMENCE WORK</b></p> <p><b>GENERAL TASKS</b></p> <ol style="list-style-type: none"> <li>5. INSPECT FOR DAMAGED, LOOSE, MISSING, OR BROKEN COMPONENTS</li> <li>6. CHECK TRACK GEOMETRY, MEASURE ANY SUSPECTED FAULTS</li> <li>7. CHECK BEARER AND FASTENER EFFECTIVENESS AND GENERAL CONDITION</li> <li>8. CHECK BALLAST CONDITION, FOULING AND PROFILE</li> <li>9. CHECK CONDITION OF STEELWORK, RAIL, WELDS AND JOINTS</li> <li>10. CHECK FOR INDICATORS OF RAIL CREEP OR INCORRECT WHEEL/RAIL INTERACTION</li> <li>11. LOOK FOR AND REMOVE AND DEBRIS THAT MAY OBSTRUCT MOVING PARTS</li> </ol> <p><b>POINTS TASKS (REPEAT FOR LEFT AND RIGHT)</b></p> <ol style="list-style-type: none"> <li>12. <b>MEASURE</b> AND RECORD ANY CURRENT DEFECTS AND UPDATE CONDITION</li> <li>13. <b>MEASURE</b> AND RECORD SWITCH OPENING</li> <li>14. <b>MEASURE</b> AND RECORD TRACK GAUGE AT THE SWITCH TIP</li> <li>15. <b>MEASURE</b> AND RECORD THROAT OPENING</li> <li>16. <b>MEASURE</b> AND RECORD SWITCH BLADE CLOSED GAP</li> <li>17. VISUAL CHECK OF BACK OF SWITCH BLADE TO OPPOSITE SWITCH RAIL AT SUPPLEMENTARY DRIVE OR STRETCHER</li> <li>18. VISUAL CHECK OF INSPECT CONDITION OF SWITCH BLADE AND STOCK RAIL FOR METAL FLOW, CRACKING AND DAMAGE BREAKOUT, TIP HEIGHT/WIDTH</li> <li>19. VISUAL CHECK OF INDICATORS OF SWITCH ALIGNMENT ISSUES</li> <li>20. VISUAL CHECK OF DAMAGED, MISSING BOLTS THROUGHOUT</li> <li>21. VISUAL CHECK OF DAMAGED OR LOOSE RAIL BRACE/CHAIR, SLIDE PLATES AND ROLLERS, SWITCH STOPS, SPREADER BARS</li> <li>22. VISUAL CHECK OF GAPS BETWEEN SWITCH AND CHAIRS/BASEPLATES</li> <li>23. <b>MEASURE</b> AND RECORD ANY SUSPECTED FAULTS</li> </ol>



<b>GENERAL INSPECTION OF POINTS AND CROSSINGS (TURNOUTS)</b>
<b>ELLIPSE STANDARD JOB: TURN02</b>
<p><b>HOUSED POINTS TASKS (ONLY WHERE APPLICABLE)</b></p> <p>24. <b>MEASURE</b> AND RECORD ANY CURRENT DEFECTS AND UPDATE CONDITION</p> <p>25. <b>MEASURE</b> AND RECORD OPEN THROW DIMENSION</p> <p>26. VISUAL CHECK OF RAIL FLANGWAY AND HOUSING FLANGWAY CLEARANCE</p> <p>27. VISUAL CHECK OF TOP OF HOUSING ABOVE CHECKRAIL</p> <p>28. VISUAL CHECK OF CHECK VERTICAL CLEARANCE BETWEEN SWITCH TIP AND HOUSING</p> <p>29. VISUAL CHECK OF WIDTH OF HOUSING</p> <p>30. VISUAL CHECK OF FLARE AT END OF HOUSING AND CHECK RAIL</p> <p>31. <b>MEASURE</b> AND RECORD ANY SUSPECTED FAULTS</p> <p><b>FIXED CROSSING TASKS (ONLY WHERE APPLICABLE)</b></p> <p>32. <b>MEASURE</b> AND RECORD ANY CURRENT DEFECTS AND UPDATE CONDITION</p> <p>33. <b>MEASURE</b> AND RECORD GAUGE AT NOSE</p> <p>34. <b>MEASURE</b> AND RECORD CHECKRAIL EFFECTIVENESS</p> <p>35. <b>MEASURE</b> AND RECORD CHECK RAIL FLANGWAY</p> <p>36. VISUAL CHECK OF CROSSING NOSE WIDTH AND CONDITION</p> <p>37. VISUAL CHECK OF CROSSING FLANGWAY</p> <p>38. VISUAL CHECK OF CHECK FOR DAMAGED OR MISSING SPACER BLOCKS AND BOLTS</p> <p>39. VISUAL CHECK OF CHECK WING RAIL CONDITION AND FLARE</p> <p>40. <b>MEASURE</b> AND RECORD ANY SUSPECTED FAULTS</p> <p><b>SWINGNOSE CROSSING TASKS (ONLY WHERE APPLICABLE)</b></p> <p>41. <b>MEASURE</b> AND RECORD ANY CURRENT DEFECTS AND UPDATE CONDITION</p> <p>42. <b>MEASURE</b> AND RECORD POINT RAIL CLOSED GAP</p> <p>43. CHECK WING RAIL CONDITION AND FLARE</p> <p>44. CHECK FOR METAL FLOW, CRACKS AND BREAKOUTS ON CROSSING</p> <p>45. CHECK NOSE ALIGNMENT, CLEARANCE AND CONDITION</p> <p>46. CHECK NOSE TIP WIDTH AND HEIGHT (CONVENTIONAL ONLY)</p> <p>47. CHECK CONDITION OF HEEL BLOCKS,BOLTS, ANTI-CREEP DEVICES, SPLICE JOINT, BRACE/CHAIR, SLIDE PLATES, ROLLERS AND SWING NOSE STOPS</p> <p>48. CHECK FOR GAPS BETWEEN SWING NOSE AND CHAIRS/BASEPLATES</p> <p>49. <b>MEASURE</b> AND RECORD ANY SUSPECTED FAULTS</p>

<b>GENERAL INSPECTION OF POINTS AND CROSSINGS (TURNOUTS)</b>
<b>ELLIPSE STANDARD JOB: TURN02</b>
<p><b>SWITCH OPERATION TASKS</b></p> <p>50. CHECK DRIVE, LOCK OR DETECTION BARS BINDING ON UNDERSIDE OF RAIL</p> <p>51. CHECK HAND OPERATED LEVER (NON-INTERLOCKED YARDS AND SIDINGS) LUBRICATION, OPERATION AND CONDITION OF EQUIPMENT AND VISIBILITY OF INDICATORS.</p> <p>52. CHECK SLIDE PLATE LUBRICATION AND CONDITION OF ROLLERS</p>
<p><b>CLOSE OUT</b></p> <p>53. ENSURE ANY TOOLS / EQUIPMENT ARE REMOVED FROM TRACK</p> <p>54. RECORD INSPECTION BY CLOSING MST / WORK ORDER</p> <p>55. UPDATE DEFECT LIST AND RECORD FOLLOW UP ACTIONS</p>

<b>DETAILED INSPECTION OF POINTS AND CROSSINGS (CATCH POINTS)</b>
<b>ELLIPSE STANDARD JOB: TURN21</b>
<p><b>PERSONNEL</b></p> <p>TRACK EXAMINER &amp; CERTIFIER</p> <p><b>EQUIPMENT</b></p> <p>TRACK GAUGE, ARTC TURNOUT INSPECTION GAUGES, STEEL RULER</p>
<p><b>PREPARATION</b></p> <ol style="list-style-type: none"> <li>1. OBTAIN LIST OF CURRENT DEFECTS</li> <li>2. OBSERVE THE APPROPRIATE NETWORK RULES AND PROCEDURES</li> <li>3. PERFORM PRE-WORK SAFETY BRIEF</li> <li>4. CO-ORDINATING THIS TASK WITH SIGNALS TEAM MAY SAVE TIME AND IMPROVE OUTCOMES</li> </ol>
<p><b>COMMENCE WORK</b></p> <p><b>GENERAL TASKS</b></p> <ol style="list-style-type: none"> <li>5. INSPECT FOR DAMAGED, LOOSE, MISSING, OR BROKEN COMPONENTS</li> <li>6. CHECK TRACK GEOMETRY, MEASURE ANY SUSPECTED FAULTS</li> <li>7. CHECK AND RECORD BEARER AND FASTENER EFFECTIVENESS AND GENERAL CONDITION</li> <li>8. CHECK AND RECORD BALLAST CONDITION, FOULING AND PROFILE INCLUDING BALLAST DRAG</li> <li>9. LOOK FOR AND REMOVE AND DEBRIS THAT MAY OBSTRUCT MOVING PARTS</li> </ol> <p><b>POINTS TASKS</b></p> <ol style="list-style-type: none"> <li>10. MEASURE AND RECORD SWITCH OPENING</li> <li>11. MEASURE AND RECORD TRACK GAUGE AT THE SWITCH TIP</li> <li>12. MEASURE AND RECORD BACK OF SWITCH BLADE TO OPPOSITE GAUGE FACE AT TIP</li> <li>13. MEASURE AND RECORD BACK OF SWITCH BLADE TO OPPOSITE SWITCH RAIL AT SUPPLEMENTARY DRIVE OR STRETCHER</li> <li>14. MEASURE AND RECORD THROAT OPENING</li> <li>15. CHECK SWITCH BLADE AND STOCK RAIL FOR METAL FLOW, CRACKING AND DAMAGE BREAKOUT</li> <li>16. CHECK AND RECORD INDICATORS OF SWITCH ALIGNMENT ISSUES</li> <li>17. MEASURE SWITCH BLADE CLOSED GAP</li> <li>18. MEASURE AND RECORD TIP WIDTH (CONVENTIONAL ONLY)</li> <li>19. MEASURE AND RECORD TIP HEIGHT (CONVENTIONAL ONLY)</li> <li>20. MEASURE AND RECORD SWITCH TIP WHEEL CLEARANCE (UNDERCUT ONLY)</li> <li>21. MEASURE AND RECORD FOR SWITCH BLADE DAMAGE, MEASURE IF PRESENT</li> <li>22. MEASURE AND RECORD GAUGE FACE ANGLE</li> <li>23. CHECK FOR DAMAGED, MISSING OR LOOSE HEEL BLOCK AND BOLTS</li> <li>24. CHECK FOR DAMAGED, MISSING OR LOOSE ANTI-CREEP DEVICES AND BOLTS</li> <li>25. CHECK AND RECORD DAMAGE TO RAIL BRACE/CHAIR, SLIDE PLATES AND ROLLERS</li> </ol>

<b>DETAILED INSPECTION OF POINTS AND CROSSINGS (CATCH POINTS)</b>
<b>ELLIPSE STANDARD JOB: TURN21</b>
<ul style="list-style-type: none"> <li>26. CHECK AND RECORD DAMAGED, LOSE OR INEFFECTIVE SWITCH STOPS</li> <li>27. CHECK FOR LOOSE, BROKEN OR MISSING SPREADER BARS</li> <li>28. MEASURE AND RECORD GAPS BETWEEN SWITCH AND CHAIRS/BASEPLATES</li> </ul> <p><b>SWITCH OPERATION TASKS</b></p> <ul style="list-style-type: none"> <li>29. CHECK DRIVE, LOCK OR DETECTION BARS BINDING ON UNDERSIDE OF RAIL</li> <li>30. CHECK HAND OPERATED LEVER (NON-INTERLOCKED YARDS AND SIDINGS) LUBRICATION, OPERATION AND CONDITION OF EQUIPMENT AND VISIBILITY OF INDICATORS.</li> <li>31. CHECK SLIDE PLATE LUBRICATION AND CONDITION OF ROLLERS</li> </ul>
<p><b>CLOSE OUT</b></p> <ul style="list-style-type: none"> <li>32. ENSURE ANY TOOLS / EQUIPMENT ARE REMOVED FROM TRACK</li> <li>33. RECORD INSPECTION BY CLOSING MST / WORK ORDER</li> <li>34. UPDATE DEFECT LIST AND RECORD FOLLOW UP ACTIONS</li> </ul>

<b>GENERAL INSPECTION OF POINTS AND CROSSINGS (CATCH POINTS)</b>
<b>ELLIPSE STANDARD JOB: TURN22</b>
<p><b>PERSONNEL</b></p> <p>TRACK EXAMINER &amp; CERTIFIER</p> <p><b>EQUIPMENT</b></p> <p>TRACK GAUGE, ARTC TURNOUT INSPECTION GAUGES, STEEL RULER</p>
<p><b>PREPARATION</b></p> <ol style="list-style-type: none"> <li>1. OBTAIN LIST OF CURRENT DEFECTS</li> <li>2. OBSERVE THE APPROPRIATE NETWORK RULES AND PROCEDURES</li> <li>3. PERFORM PRE-WORK SAFETY BRIEF</li> <li>4. CO-ORDINATING THIS TASK WITH SIGNALS TEAM MAY SAVE TIME AND IMPROVE OUTCOMES</li> </ol>
<p><b>COMMENCE WORK</b></p> <p><b>GENERAL TASKS</b></p> <ol style="list-style-type: none"> <li>5. INSPECT FOR DAMAGED, LOOSE, MISSING, OR BROKEN COMPONENTS</li> <li>6. CHECK TRACK GEOMETRY, MEASURE ANY SUSPECTED FAULTS</li> <li>7. CHECK BEARER AND FASTENER EFFECTIVENESS AND GENERAL CONDITION</li> <li>8. LOOK FOR AND REMOVE AND DEBRIS THAT MAY OBSTRUCT MOVING PARTS</li> </ol> <p><b>POINTS TASKS</b></p> <ol style="list-style-type: none"> <li>9. <b>MEASURE</b> AND RECORD ANY CURRENT DEFECTS AND UPDATE CONDITION</li> <li>10. <b>MEASURE</b> AND RECORD SWITCH OPENING</li> <li>11. <b>MEASURE</b> AND RECORD TRACK GAUGE AT THE SWITCH TIP</li> <li>12. <b>MEASURE</b> AND RECORD THROAT OPENING</li> <li>13. <b>MEASURE</b> AND RECORD SWITCH BLADE CLOSED GAP</li> <li>14. VISUAL CHECK OF BACK OF SWITCH BLADE TO OPPOSITE SWITCH RAIL AT SUPPLEMENTARY DRIVE OR STRETCHER</li> <li>15. VISUAL CHECK OF INSPECT CONDITION OF SWITCH BLADE AND STOCK RAIL FOR METAL FLOW, CRACKING AND DAMAGE BREAKOUT, TIP HEIGHT/WIDTH</li> <li>16. VISUAL CHECK OF INDICATORS OF SWITCH ALIGNMENT ISSUES</li> <li>17. VISUAL CHECK OF DAMAGED, MISSING BOLTS THROUGHOUT</li> <li>18. VISUAL CHECK OF DAMAGED OR LOOSE RAIL BRACE/CHAIR, SLIDE PLATES AND ROLLERS, SWITCH STOPS, SPREADER BARS</li> <li>19. VISUAL CHECK OF GAPS BETWEEN SWITCH AND CHAIRS/BASEPLATES</li> <li>20. <b>MEASURE</b> AND RECORD ANY SUSPECTED FAULTS</li> </ol>

<b>GENERAL INSPECTION OF POINTS AND CROSSINGS (CATCH POINTS)</b>
<b>ELLIPSE STANDARD JOB: TURN22</b>
<p><b>SWITCH OPERATION TASKS</b></p> <p>21. CHECK DRIVE, LOCK OR DETECTION BARS BINDING ON UNDERSIDE OF RAIL</p> <p>22. CHECK HAND OPERATED LEVER (NON-INTERLOCKED YARDS AND SIDINGS) LUBRICATION, OPERATION AND CONDITION OF EQUIPMENT AND VISIBILITY OF INDICATORS.</p> <p>23. CHECK SLIDE PLATE LUBRICATION AND CONDITION OF ROLLERS</p>
<p><b>CLOSE OUT</b></p> <p>24. ENSURE ANY TOOLS / EQUIPMENT ARE REMOVED FROM TRACK</p> <p>25. RECORD INSPECTION BY CLOSING MST / WORK ORDER</p> <p>26. UPDATE DEFECT LIST AND RECORD FOLLOW UP ACTIONS</p>

<b>DETAILED INSPECTION OF POINTS AND CROSSINGS (DIAMONDS)</b>
<b>ELLIPSE STANDARD JOB: TURN31</b>
<p><b>PERSONNEL</b></p> <p>TRACK EXAMINER &amp; CERTIFIER</p> <p><b>EQUIPMENT</b></p> <p>TRACK GAUGE, ARTC TURNOUT INSPECTION GAUGES, STEEL RULER</p>
<p><b>PREPARATION</b></p> <ol style="list-style-type: none"> <li>1. OBTAIN LIST OF CURRENT DEFECTS</li> <li>2. OBSERVE THE APPROPRIATE NETWORK RULES AND PROCEDURES</li> <li>3. PERFORM PRE-WORK SAFETY BRIEF</li> <li>4. CO-ORDINATING THIS TASK WITH SIGNALS TEAM MAY SAVE TIME AND IMPROVE OUTCOMES</li> </ol>
<p><b>COMMENCE WORK</b></p> <p><b>GENERAL TASKS</b></p> <ol style="list-style-type: none"> <li>5. INSPECT FOR DAMAGED, LOOSE, MISSING, OR BROKEN COMPONENTS</li> <li>6. CHECK TRACK GEOMETRY, MEASURE ANY SUSPECTED FAULTS</li> <li>7. CHECK AND RECORD BEARER AND FASTENER EFFECTIVENESS AND GENERAL CONDITION</li> <li>8. CHECK AND RECORD BALLAST CONDITION, FOULING AND PROFILE</li> <li>9. CHECK CONDITION OF WELDS AND JOINTS</li> <li>10. CHECK FOR BROKEN STEELWORK (CROSSING, POINTS, RAILS)</li> <li>11. CHECK FOR INDICATORS OF RAIL CREEP, POSITION OF ANTI-CREEP BLOCKS, SWITCH SQUARENESS</li> <li>12. CHECK CONDITION OF RAIL</li> <li>13. LOOK FOR INDICATORS OF INCORRECT WHEEL/RAIL INTERACTION</li> </ol> <p><b>FIXED CROSSING TASKS</b></p> <ol style="list-style-type: none"> <li>14. MEASURE AND RECORD GAUGE AT NOSE</li> <li>15. MEASURE AND RECORD CHECKRAIL EFFECTIVENESS</li> <li>16. MEASURE AND RECORD CROSSING NOSE WIDTH</li> <li>17. CHECK AND RECORD CRACKS AND BREAKOUTS ON CROSSING</li> <li>18. CHECK AND RECORD CROSSING FLANGWAY</li> <li>19. CHECK FOR CRACKED, BROKEN OR MISSING CROSSING SPACER BLOCKS AND BOLTS</li> <li>20. MEASURE AND RECORD WING RAIL WEAR</li> <li>21. CHECK FOR METAL FLOW, CRACKS AND BREAKOUTS ON WING RAIL</li> <li>22. MEASURE AND RECORD WING RAIL FLARE</li> <li>23. MEASURE AND RECORD CHECK RAIL FLANGWAY</li> <li>24. MEASURE AND RECORD CHECK RAIL FLARE</li> <li>25. CHECK FOR CRACKED, BROKEN OR MISSING CHECK RAIL SPACER BLOCKS AND BOLTS</li> </ol>

<b>DETAILED INSPECTION OF POINTS AND CROSSINGS (DIAMONDS)</b>
<b>ELLIPSE STANDARD JOB: TURN31</b>
<b>CLOSE OUT</b> 26. ENSURE ANY TOOLS / EQUIPMENT ARE REMOVED FROM TRACK 27. RECORD INSPECTION BY CLOSING MST / WORK ORDER 28. UPDATE DEFECT LIST AND RECORD FOLLOW UP ACTIONS



<b>GENERAL INSPECTION OF POINTS AND CROSSINGS (DIAMONDS)</b>
<b>ELLIPSE STANDARD JOB: TURN32</b>
<p><b>PERSONNEL</b></p> <p>TRACK EXAMINER &amp; CERTIFIER</p> <p><b>EQUIPMENT</b></p> <p>TRACK GAUGE, ARTC TURNOUT INSPECTION GAUGES, STEEL RULER</p>
<p><b>PREPARATION</b></p> <ol style="list-style-type: none"> <li>1. OBTAIN LIST OF CURRENT DEFECTS</li> <li>2. OBSERVE THE APPROPRIATE NETWORK RULES AND PROCEDURES</li> <li>3. PERFORM PRE-WORK SAFETY BRIEF</li> <li>4. CO-ORDINATING THIS TASK WITH SIGNALS TEAM MAY SAVE TIME AND IMPROVE OUTCOMES</li> </ol>
<p><b>COMMENCE WORK</b></p> <p><b>GENERAL TASKS</b></p> <ol style="list-style-type: none"> <li>5. INSPECT FOR DAMAGED, LOOSE, MISSING, OR BROKEN COMPONENTS</li> <li>6. CHECK TRACK GEOMETRY, MEASURE ANY SUSPECTED FAULTS</li> <li>7. CHECK BEARER AND FASTENER EFFECTIVENESS AND GENERAL CONDITION</li> <li>8. CHECK BALLAST CONDITION, FOULING AND PROFILE</li> <li>9. CHECK CONDITION OF STEELWORK, RAIL, WELDS AND JOINTS</li> <li>10. CHECK FOR INDICATORS OF RAIL CREEP OR INCORRECT WHEEL/RAIL INTERACTION</li> </ol> <p><b>FIXED CROSSING TASKS</b></p> <ol style="list-style-type: none"> <li>11. <b>MEASURE</b> AND RECORD ANY CURRENT DEFECTS AND UPDATE CONDITION</li> <li>12. <b>MEASURE</b> AND RECORD GAUGE AT NOSE</li> <li>13. <b>MEASURE</b> AND RECORD CHECKRAIL EFFECTIVENESS</li> <li>14. <b>MEASURE</b> AND RECORD CHECK RAIL FLANGEWAY</li> <li>15. VISUAL CHECK OF CROSSING NOSE WIDTH AND CONDITION</li> <li>16. VISUAL CHECK OF CROSSING FLANGEWAY</li> <li>17. VISUAL CHECK OF CHECK FOR DAMAGED OR MISSING SPACER BLOCKS AND BOLTS</li> <li>18. VISUAL CHECK OF CHECK WING RAIL CONDITION AND FLARE</li> <li>19. <b>MEASURE</b> AND RECORD ANY SUSPECTED FAULTS</li> </ol>
<p><b>CLOSE OUT</b></p> <ol style="list-style-type: none"> <li>20. ENSURE ANY TOOLS / EQUIPMENT ARE REMOVED FROM TRACK</li> <li>21. RECORD INSPECTION BY CLOSING MST / WORK ORDER</li> <li>22. UPDATE DEFECT LIST AND RECORD FOLLOW UP ACTIONS</li> </ol>