

Mainline 1 2 Yard _____ WO # 2684824

Date: 12-8-16 Inspection Crew W BRYANT T SCHISLER R NELSON

Location ANDOVER
2 Switch I.D. # 22-113
3 Facing Trailing X

Rail Points

4 Point to Point 5 1/8
5 Point Condition S Y R
6 Point Throw Nothing less than 4" or greater than 5"
Min 3 1/2" on house top point protector
N 4 3/4 R 4 3/4

7 Point Opening
N 5/16 R 5/8

8 FR S Y R
9 General Condition of the Points S Y R

Gage.
10 Heel of Switch
a) Main 56 9/16
a) Turnout 56 9/16
11 Gage ahead of Bend 56 1/2
Must not be less than 56" or more than 57" for "S"

12 Heel Spread in inches
1) Turnout 6 1/4
2) Main 6 1/4

Stock Rail

13 Bend S Y R
14 Condition S Y R

Bolts

15 Loose 0 N/A
16 Missing 0 N/A

Rivets (Huck Bolts)

17 Loose 0 N/A
18 Missing 0 N/A
19 Cotter Pins missing 0 N/A
20 Jam Nuts Loose 0 N/A
21 Washers OK Broken 0 Missing 0

22 Standard Joints S Y R N/A
23 Switch Plates S Y R N/A
24 Adjustable Braces S Y R N/A
25 Non-Adjustable Braces S Y R N/A

Switch Rods

26 Front Rod S Y R N/A
27 #1 Rod (Basket Rod) S Y R N/A
28 #2 Rod S Y R N/A
29 #3 Rod S Y R N/A
30 #4 Rod S Y R N/A
31 Closure Rail S Y R N/A
32 Surface of Switch S Y R N/A
Using a 62' cord
S = Up to 1" Max allowed Speed
Y = 1" to 1 1/2" 40 MPH
R = 1 1/2" to 1 3/4" 12 MPH
Greater than 1 3/4" = Out of Service

33 Head Block tie S Y R
34 Switch Adjustments Yes No
35 Lubrication OK Dry
36 Switch Target / Lamps OK Missing N/A

37 Latches OK Broken Missing
38 Locks OK Broken Missing
39 General Condition S Y R

40 Insulated Joints S Y R

Remarks on Page 3
JBW/WEM Mod. 09-15-08

Mainline 1 2 Yard _____ WO# 2184824

Date: 12-8-16 Inspection Crew: W BRYANT T SCHIED R NELSON

Location

2 Switch I.D. # 221B

3 Facing Trailing X

44 Frog Tread N S Y R
R S Y R

45 Frog # 10

46 Frog Point Condition
S Y R

47 Condition of Frog
S Y R

48 Surface of Frog
S Y R

49 Throat In Inches 3 3/4

50 Flangeway Depth 2
Flangeway Depth must not be less than 1 1/2"

Gage

51 Main Track 56 11/16

52 Turnout Track 57 3/4

Gage must not be less than 56" for any Class

Guard Rails

53 Guard Rail Gage N 54 11/16 R 54 11/16

Guard Rail Gage must be less than 54 3/8"

Back to Back N 52 3/4 R 52 3/4

Back to Back must be less than 53 1/8"

54 Condition

S Y R

55 Location of Guard Rail (Relation to Point)

S Y R

Guard Rail Clamps

56 Main Track

S Y R N/A

57 Turnout Track

S Y R N/A

Class 1 Gage 56" to 57 1/2"

More than 57 1/2" Out of Service

Class 3 Gage 56" to 57"

More than 57" to 57 1/4" downgrade to

Class 2 and gets a Y

Remarks on page 3

Turnout Ties

58 Condition

S Y R

59 Rail Movement

S Y R

Tie Plates

60 Lead

S Y R

61 Guard Rail Flangeway

S Y R N 1 3/8 R 1 3/8

Guard Rail Flangeway can not be less 1 1/2"

62 Guard Rail Plates

S Y R

63 Frog Plates

S Y R

Bolts

64 Loose 0 N/A

65 Missing 0 N/A

Rivets (Huck)

66 Loose 0 N/A

67 Missing 0 N/A

68 Nuts Missing 0 N/A

69 Cotter Pins Missing 0 N/A

70 Washers OK Broken Missing

71 Hold Down Devices

S Y R N/A

72 Spring Housing

S Y R N/A

73 Derails

S Y R N/A

74 Maximum difference in any 31' in Cross

Level on the siding from the Frog Point to

50' beyond last long tie

OK Difference _____

75 Condition of Line thru entire turnout

S Y R

Switch 22 1B Date 12-8-16 WO # 2684824

11 LOOSE SCREW SPIKES

All rules comply with the MTA Field Guide for Track Inspections updated April 2006

All rules are class 3 for Mainline track and class 1 for Yard tracks

S All items inspected are in compliance

Y Attention needed

R Immediate attention required or Out of Service

Reviewed by: _____ Date: _____



Maximo

Maryland Department of Transportation

Work Order Details (Tr)

Org ID: MTA
 Site: LTRAIL

WO # 2684955 Semi Annual Switch Inspection
 12-8-2016

Pitted frog point
 Micro Cracking frog
 Micro Cracking closure wing rail
 Battered frog point & throat area
 LH Pt wheelburn between #2 and #3 rods
 67 screw spikes loose
 2 screw spikes missing
 1 rotted machine tie
 5 - 9' timbers rotted

Alias:	Location:	CMBWI104	Chain Marker:	BWI, 104	Status:
Asset:	Manufacturer:		Type:		
Serial Number:	License:				
Service Address:	1155	344 West North Ave, Baltimore MD			

Meters: Description Unit of Measure Last Reading Date Last Reading

CI: Mileage Meter:

Sched Start:	
Sched Finish:	
Target Start:	12/28/16
Target Finish:	12/28/16
Actual Start:	12/8/16
Actual Finish:	12/8/16
Report Date:	12/1/16
Reported By:	MTACRON
Requestor of Work:	

Site:	LTRAIL
Priority:	1
Work Type:	PM
Status:	CLOSE
Parent:	
Person Group:	MTA527
GL Account:	J05-#####-05270-#####-0901-#####-#####-####-###
Warranty Situation:	N

Job Plan:	2688
Job Desc:	Semi Annual Switch Inspection
Supervisor:	
Lead:	JREAVES3
Owner:	
Owner Group:	
Service:	
Service Group:	
Classification:	2732
Part Failure:	



MD - Maximo

Maryland Department of Transportation

Work Order Details (Tr)

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Site: LTRAIL

WO # 2684955 Semi Annual Switch Inspection
12-8-2016

- Pitted frog point
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- Micro Cracking closure wing rail
- Battered frog point & throat area
- LH Pt wheelburn between #2 and #3 rods
- 67 screw spikes loose
- 2 screw spikes missing
- 1 rotted machine tie
- 5 - 9' timbers rotted

Present?
PM Num: 48500

Specification	Attribute	Description	ALN Value	Numeric Value	Unit of Measure
LTRAIL_DESCRIPTION		LTRAIL_DESCRIPTION	Semi Annual Switch Inspection		



MARYLAND DEPT
OF TRANSPORTATION

Maryland Department of Transportation

Work Order Details (Tr)

Org ID: MTA
Site: LTRAIL

WO # 2684955

Semi Annual Switch Inspection
12-8-2016

- Pitted frog point
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- Micro Cracking closure wing rail
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- LH Pt wheelburn between #2 and #3 rods
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- 1 rotted machine tie
- 5 - 9' timbers rotted

Related Records		WO	Description	Class	Status	Relationship
		3318998	Semi Annual Switch Inspection	WORKORDER	CLOSE	FOLLOWUP
		3319004	Semi Annual Switch Inspection	WORKORDER	CLOSE	FOLLOWUP
		3319005	Semi Annual Switch Inspection	WORKORDER	CLOSE	FOLLOWUP
		3325866	Semi Annual Switch Inspection	WORKORDER	CLOSE	FOLLOWUP

Actual Labor

Task ID	Craft	Skill Level	Labor	Component	Position	Reason for Repair	Work Accomplishec	Part Failure	Warranty	Contract Num	Regular Hours	Premium Hours	Line Cost
	AREPAIR		RNELSON			N					00:00	01:00	39.44
	AREPAIR		TSCHISLI			N					00:00	01:00	39.44
	LEAD		WBRYAN			N					00:00	01:00	42.05
Total Actual Labor:											120.93		



Maximo

Maryland Department of Transportation

Work Order Details (Tr)

Org ID: MTA
Site: LTRAIL

WO # 2684955

Semi Annual Switch Inspection
12-8-2016

- Pitted frog point
- Micro Cracking frog
- Micro Cracking closure wing rail
- Battered frog point & throat area
- LH Pt wheelburn between #2 and #3 rods
- 67 screw spikes loose
- 2 screw spikes missing
- 1 rotted machine tie
- 5 - 9' timbers rotted

Task IDs

Task ID	Description	Status	Component	Position	Reason for Repair	Work Accomplished	Part Failure	Warranty?
10	Performed inspection according to LR MOW procedure	CLOSE						N

Date Completed

Completed By

Supervisor



MD - Maximo

Maryland Department of Transportation

Work Order Details (Tr)

Org ID: MTA
Site: LTRAIL

WO # 3325866 Semi Annual Switch Inspection
 12-8-2016

Pitted frog point
 Micro Cracking frog
 Micro Cracking closure wing rail
 Battered frog point & throat area
 LH Pt wheelburn between #2 and #3 rods
 67 screw spikes loose
 2 screw spikes missing
 1 rotted machine tie
 5 - 9' timbers rotted

Related Records	WO	Description	Class	Status	Relationship
	2684955	Semi Annual Switch Inspection	WORKORDER	WAPPR	ORIGINATOR

Date Completed _____ Completed By _____ Supervisor _____



Maximo

Maryland Department of Transportation

Work Order Details (Tr)

Org ID: MTA
Site: LTRAIL

WO # 3325866 **Semi Annual Switch Inspection**
 12-8-2016
 Pitted frog point
 Micro Cracking frog
 Micro Cracking closure wing rail
 Battered frog point & throat area
 LH Pt wheelburn between #2 and #3 rods
 67 screw spikes loose
 2 screw spikes missing
 1 rotted machine tie
 5 - 9' timbers rotted

Alias: Chain Marker **Location:** CMBW104 **Status:** **Type:**
 BWI, 104
Asset: **Manufacturer:**
Serial Number: **License:**
Service Address: 1155 344 West North Ave, Baltimore MD

Meters: **Description** **Unit of Measure** **Last Reading Date** **Last Reading**

Cl: **Mileage Meter:**

Sched Start:	
Sched Finish:	
Target Start:	
Target Finish:	
Actual Start:	
Actual Finish:	
Report Date: 3/12/18	
Reported By: JVERAS	
Requestor of Work:	

Site: LTRAIL
Priority: 1
Work Type: LOG
Status: WAPPR
Parent:
Person Group: MTA527
GL Account: J05-#####-05270-#####-0901-#####
#####-#####
#####-000-30-00
Warranty Situation N

Job Plan:	
Job Desc:	
Supervisor:	
Lead: JREAVES3	
Owner:	
Owner Group:	
Service:	
Service Group:	
Classification: 2732	
Part Failure:	



Maximo

Maryland Department of Transportation

Work Order Details (Tr)

Org ID: MTA
Site: LTRAIL

WO # 3325866
Semi Annual Switch Inspection
12-8-2016

- Pitted frog point
- Micro Cracking frog
- Micro Cracking closure wing rail
- Battered frog point & throat area
- LH Pt wheelburn between #2 and #3 rods
- 67 screw spikes loose
- 2 srew spikes missing
- 1 rotted machine tie
- 5 - 9' timbers rotted

Present?
PM Num:

Specification	Attribute	Description	ALN Value	Numeric Value	Unit of Measure
LTRAIL_DESCRIPTION	LTRAIL_DESCRIPTION	Semi Annual Switch Inspection			

Mainline 1 2 Yard _____ WO # 2684955

Date: 12-8-16 Inspection Crew T SCHIGLER, W BRYANT, R NELSON

Location _____
2 Switch I.D. # 104
3 Facing X Trailing _____

Rail Points
4 Point to Point 5 1/16
5 Point Condition S Y R

6 Point Throw Nothing less than 4" or greater than 5"
Min 3 1/2" on house top point protector
N 5 R 5

7 Point Opening
N 5/4 R 5/4

8 FR S Y R
9 General Condition of the Points S Y R

Gage.
10 Heel of Switch
a) Main 50 3/4
a) Turnout 56 3/8
11 Gage ahead of Bend 50 3/4
Must not be less than 56" or more than 57" for "S"

12 Heel Spread in Inches
Turnout 6 1/4
Main 4 1/4

Stock Rail
13 Bend S Y R
14 Condition S Y R

Bolts
15 Loose 0 N/A
16 Missing 0 N/A

Rivets (Huck Bolts)
17 Loose 0 N/A
18 Missing 0 N/A
19 Cotter Pins missing 0 N/A
20 Jam Nuts Loose 0 N/A
21 Washers OK Broken _____ Missing _____

22 Standard Joints S Y R N/A
23 Switch Plates S Y R N/A
24 Adjustable Braces S Y R N/A
25 Non-Adjustable Braces S Y R N/A

Switch Rods
26 Front Rod S Y R N/A
27 #1 Rod (Basket Rod) S Y R N/A
28 #2 Rod S Y R N/A
29 #3 Rod S Y R N/A
30 #4 Rod S Y R N/A
31 Closure Rail S Y R N/A
32 Surface of Switch S Y R N/A
Using a 62" cord
S = Up to 1" Max allowed Speed
Y = 1" to 1 1/2" 40 MPH
R = 1 1/2" to 1 3/4" 12 MPH
Greater than 1 3/4" = Out of Service

33 Head Block ties S Y R
34 Switch Adjustments Yes No
35 Lubrication OK Dry
36 Switch Target / Lamps OK Missing N/A
37 Latches OK Broken Missing
38 Locks OK Broken Missing
39 General Condition S Y R

40 Insulated Joints S Y R

Remarks on Page 3
JBVWEM Mod. 09-15-08

Mainline 1 2 Yard _____ WO# 2684955

Date: 12-8-16 Inspection Crew: T SCHISLER W BRYANT P NELSON

Location

2 Switch I.D. # 104
 3 Facing X Trailing _____
 44 Frog Tread N (S) Y R
 R (S) Y R
 46 Frog # 15
 46 Frog Point Condition
(S) Y R
 47 Condition of Frog
(S) Y R
 48 Surface of Frog
(S) Y R
 49 Throat in Inches 2 5/8
 50 Flangeway Depth 1 13/16
 Flangeway Depth must not be less than 1 1/2"

Gage
 51 Main Track 56 7/16
 52 Turnout Track 57 9/16
 Gage must not be less than 56" for any Class

Guard Rails
 53 Guard Rail Gage N 54 1/2 R 54 5/16
 Guard Rail Gage must be less than 54 3/8"
) Back to Back N 52 5/8 R 52 1/4
 Back to Back must be less than 53 1/8"

54 Condition
(S) Y R
 55 Location of Guard Rail (Relation to Point)
(S) Y R

Guard Rail Clamps
 56 Main Track
(S) Y R N/A
 57 Turnout Track
(S) Y R N/A

Class 1 Gage 56" to 57 1/2"
 More than 57 1/2" Out of Service
 Class 3 Gage 56" to 57"
 More than 57" to 57 1/4" downgrade to
Class 2 and sets a Y

Remarks on page 3

Turnout Ties

58 Condition
(S) Y R
 59 Rail Movement
(S) Y R
Tie Plates
 60 Lead
(S) Y R
 61 Guard Rail Flangeway
(S) Y R N: 1 7/16 R: 1 5/8
 Guard Rail Flangeway can not be less 1 1/2"

62 Guard Rail Plates
(S) Y R
 63 Frog Plates
(S) Y R

Bolts

64 Loose 0 N/A
 65 Missing 0 N/A

Rivets (Huck)

66 Loose 0 N/A
 67 Missing 0 N/A
 68 Nuts Missing 0 N/A
 69 Cotter Pins Missing 0 N/A
 70 Washers OK Broken _____ Missing _____

71 Hold Down Devices

(S) Y R N/A
 72 Spring Housing
(S) Y R (N/A)

73 Derails
(S) Y R (N/A)

74 Maximum difference in any 31' in Cross
 Level on the siding from the Frog Point to
 50' beyond last long tie
OK Difference _____

75 Condition of Line thru entire turnout
(S) Y R

Switch 104 Date 12-8-16 WO # 2684955

PITTED FROG POINT

MICRO CRACKING FROG

MICRO CRACKING CLOSURE WING RAIL

BATTERED FROG POINT + THROAT AREA

MICRO CRACKING CV CLOSURE

CH PT WHEELBURN BETWEEN #2 & #3

67 SCREW SPIKES LOOSE

2 " " MISSING

1 - ROTTED MACHINE TIE

5 - " 9'

All rules comply with the MTA Field Guide for Track Inspections updated April 2006

All rules are class 3 for Mainline track and class 1 for Yard tracks

S All items inspected are in compliance

Y Attention needed

R Immediate attention required or Out of Service

Reviewed by: _____ Date: _____