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Mainline Switch Inspection Report Semi-Annual

WO# 1302941 Page 1 of 3

Date 2-7-14 Inspection Crew Sell ALCHIN

Watchman LAM  
1 Location CROMWELL  
2 Switch I.D. # 4805 mow SW  
3 Facing X Trailing \_\_\_\_\_

Rail Points

4 Point to Point 50 3/4  
5 Point Condition  
(S) Y R  
6 Point Throw, nothing less than 4 1/4 inches  
N 5 1/4  
6a Point Opening  
N 5 3/4  
7 Fit  
(S) Y R  
8 General Condition of the Points  
(S) Y R  
Gage  
Heel of Switch  
9 Main 56 1/2  
10 Turnout 56 1/4  
11 Gage ahead of Bend 56 1/2  
**Must not be less than 56 inches or more than 57 inches for "S"**  
12 Heel Spread in Inches  
Turnout 6 1/4  
13 Main 6 3/8

Stock Rail

14 Bend  
(S) Y R  
15 Condition  
(S) Y R

Bolts

16 Loose ✓ N/A  
17 Missing ✓ N/A

Rivets (Huck Bolts)

18 Loose ✓ N/A  
19 Missing ✓ N/A  
20 Cotter Pins Missing ✓ N/A  
21 Jam Nuts Loose ✓ N/A  
21a Washers (Ok) Broken \_\_\_\_\_ Missing \_\_\_\_\_

Remarks on page 3

GM/JC 6/15/10

22 Standard Joints  
(S) Y R N/A  
23 Switch Plates  
(S) Y R  
24 Adjustable Braces  
(S) Y R N/A  
24a Non-Adjustable Braces  
S Y R (N/A)  
Switch Rods  
25 Front Rod  
(S) Y R N/A  
26 #1 Rod (Basket Rod)  
(S) Y R  
27 #2 Rod  
(S) Y R  
28 #3 Rod  
(S) Y R N/A  
29 #4 Rod  
(S) Y R N/A  
30 Closure Rail  
(S) Y R  
31 Surface of Switch  
(S) Y R  
Using a 62' cord, not over 1" to 1 1/2" for a Y and no more than 1 1/2" to 1 3/4" For a R, Great than 13/4" is Out of Service  
32 Head Block Ties  
(S) Y R  
33 Switch Adjustments  
(Yes) No  
34 Lubrication  
Ok (Dry)  
35 Switch Targets/Lamps  
Ok Missing (N/A)  
36 Latches  
(Ok) Broken \_\_\_\_\_ Missing \_\_\_\_\_  
37 Locks  
(Ok) Broken \_\_\_\_\_ Missing \_\_\_\_\_  
38 General Condition  
(S) Y R  
39 Insulated Joints  
(S) Y R  
39a Regular Joints  
(S) Y R

50 Location Cromwell

50a Switch I.D. # 480 S mow sw

51 Facing (S) Y R Trailing

52 Frog Tread N (S) Y R

R (S) Y R

53 Frog # 8

54/79 Point Condition

(S) Y R

55 Condition of Frog

(S) Y R

56 Surface of Frog

(S) Y R

57 Throat in Inches 3 3/8

72 Flangeway Depth 2

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

Gage

58 Main Track 56 1/16

59 Turnout Track 56 5/8

**Gage must not be less than 56" any class**

Guard Rails

60 Guard Rail Gage N 54 3/4 R 54 3/4

**Guard Rail Gage must more than 54 3/8"**

61 Back To Back N 52 3/4 R 52 9/16

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

62 Condition

(S) Y R

63 Location of Guard Rail (Relation to Point)

(S) Y R

Guard Rail Clamps

64 Main Track

S Y R n/a

65 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

GM/JC 6/15/10

Turnout Ties

66 Condition

(S) Y R

67 Rail Movement

(S) Y R

Tie Plates

68 Lead

(S) Y R

69 Guard Rail Flangeway

(S) Y R N 1 7/8 R 1 7/8

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

70 Guard Rail Plates

(S) Y R

71 Frog Plates

(S) Y R

Bolts

73 Loose ✓ N/A

74 Missing ✓ N/A

Rivets (Huck)

75 Loose ✓ N/A

76 Missing ✓ N/A

77 Nuts Missing ✓ N/A

78 Cotter Pins Missing ✓ N/A

79 Washers (Ok) Broken \_\_\_\_\_ Missing \_\_\_\_\_

80 Hold Down Devices

(S) Y R N/A

81 Spring Housing

S Y R (N/A)

82 Derails

(S) Y R

83 **Maximum difference in any 31' in Cross**

**Level on the siding from the Frog Point to 50' beyond the last long tie**

(Ok) Difference \_\_\_\_\_

84 Condition of Line thru entire turnout

(S) Y R

**Remarks**

[Lined area for handwritten remarks]

All rules come out of the MTA Field Guide for Track Inspectors updated April 2006 edition.

Everything is class 3 for Mainline and class 1 for the Yard.

**S** Everything is in Specs.

**Y** Attention needed.

**R** Immediate attention needed or Out of Service.

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

06-15-10  
GM/JC 6/15/10

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Mainline Switch Inspection Report Semi-Annual

WO# 1302935 Page 1 of 3

Date 2-7-14  
Watchman LAM  
1 Location BW1  
2 Switch I.D. # 104 BW MOW SW  
3 Facing Trailing X

Inspection Crew SEU ALCHIN

Rail Points

4 Point to Point 51 1/2  
5 Point Condition  
 S  Y  R  
6 Point Throw, nothing less than 4 3/4 inches  
N R 5  
6a Point Opening  
N R 5 3/8  
7 Fit  
 S  Y  R  
8 General Condition of the Points  
 S  Y  R

Gage

Heel of Switch  
9 Main 56 11/16  
10 Turnout 56 5/8  
11 Gage ahead of Bend 56 3/4  
Must not be less than 56 inches or more than 57 inches for "S"  
12 Heel Spread in Inches  
Turnout 6 5/16  
13 Main 6 5/16

Stock Rail

14 Bend  
 S  Y  R  
15 Condition  
 S  Y  R

Bolts

16 Loose  N/A  
17 Missing  N/A

Rivets (Huck Bolts)

18 Loose  N/A  
19 Missing  N/A  
20 Cotter Pins Missing  N/A  
21 Jam Nuts Loose  N/A  
21a Washers  Ok  Broken  Missing

Remarks on page 3

GM/JC 6/15/10

22 Standard Joints  
 S  Y  R  N/A  
23 Switch Plates  
 S  Y  R  
24 Adjustable Braces  
 S  Y  R  N/A  
24a Non-Adjustable Braces  
 S  Y  R  N/A  
Switch Rods  
25 Front Rod  
 S  Y  R  N/A  
26 #1 Rod (Basket Rod)  
 S  Y  R  
27 #2 Rod  
 S  Y  R  
28 #3 Rod  
 S  Y  R  N/A  
29 #4 Rod  
 S  Y  R  N/A  
30 Closure Rail  
 S  Y  R  
31 Surface of Switch  
 S  Y  R  
Using a 62' cord, not over 1" to 1 1/2" for a Y and no more than 1 1/2" to 1 3/4" For a R, Great than 13/4" is Out of Service  
32 Head Block Ties  
 S  Y  R  
33 Switch Adjustments  
 Yes  No  
34 Lubrication  
Ok  Dry  
35 Switch Targets/Lamps  
Ok  Missing  N/A  
36 Latches  
 Ok  Broken  Missing  
37 Locks  
 Ok  Broken  Missing  
38 General Condition  
 S  Y  R  
39 Insulated Joints  
 S  Y  R  
39a Regular Joints  
 S  Y  R

50 Location BW1

50a Switch I.D. # 104BW mon sw

51 Facing Trailing

52 Frog Tread N S Y R

R S Y R

53 Frog # 15

54/79 Point Condition

S Y R

55 Condition of Frog

S Y R

56 Surface of Frog

S Y R

57 Throat in Inches 2 3/4

72 Flangeway Depth 1 7/8

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

Gage

58 Main Track 56 7/16

59 Turnout Track 56 1/16

**Gage must not be less than 56" any class**

Guard Rails

60 Guard Rail Gage N 54 7/16 R 55

**Guard Rail Gage must more than 54 3/8"**

61 Back To Back N 52 7/16 R 52 13/16

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

62 Condition

S Y R

63 Location of Guard Rail (Relation to Point)

S Y R

Guard Rail Clamps

64 Main Track N/A

S Y R

65 Turnout Track N/A

S Y R

**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

GM/JC 6/15/10

Turnout Ties

66 Condition

S Y R

67 Rail Movement

S Y R

Tie Plates

68 Lead

S Y R

69 Guard Rail Flangeway

S Y R N 1 3/16 R 1 5/8

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

70 Guard Rail Plates

S Y R

71 Frog Plates

S Y R

Bolts

73 Loose ✓ N/A

74 Missing ✓ N/A

Rivets (Huck)

75 Loose ✓ N/A

76 Missing ✓ N/A

77 Nuts Missing ✓ N/A

78 Cotter Pins Missing ✓ N/A

79 Washers Ok Broken Missing

80 Hold Down Devices

S Y R N/A

81 Spring Housing

S Y R N/A

82 Derails

S Y R N/A

83 **Maximum difference in any 31' in Cross**

**Level on the siding from the Frog Point to 50' beyond the last long tie**

Ok Difference \_\_\_\_\_

84 Condition of Line thru entire turnout

S Y R

**Remarks**

[Lined area for handwritten remarks]

All rules come out of the MTA Field Guide for Track Inspectors updated April 2006 edition.

Everything is class 3 for Mainline and class 1 for the Yard.

**S** Everything is in Specs.

**Y** Attention needed.

**R** Immediate attention needed or Out of Service.

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

06-15-10  
GM/JC 6/15/10

**Mainline Switch Inspection Report Semi-Annual**

WO# 1294018 Page 1 of 3

Date 2-7-14 Inspection Crew Sell ALCHIN

Watchman LAM

1 Location Cromwell

2 Switch I.D. # 4845 4843B now SW

3 Facing X Trailing

**Rail Points**

4 Point to Point 30 3/4

5 Point Condition

S  Y  R

6 Point Throw, nothing less than 4 3/4 inches

N 5 1/8 R 5 1/8

6a Point Opening

N 5 1/2 R 5 1/2

7 Fit

S  Y  R

8 General Condition of the Points

S  Y  R

**Gage**

Heel of Switch

9 Main 56 5/16

10 Turnout 56 5/16

11 Gage ahead of Bend 56 1/2

Must not be less than 56 inches or more than 57 inches for "S"

12 Heel Spread in Inches

Turnout 6 1/4

13 Main 6 1/4

**Stock Rail**

14 Bend

S  Y  R

15 Condition

S  Y  R

**Bolts**

16 Loose  N/A

17 Missing  N/A

**Rivets (Huck Bolts)**

18 Loose  N/A

19 Missing  N/A

20 Cotter Pins Missing  N/A

21 Jam Nuts Loose  N/A

21a Washers  Ok  Broken  Missing

**Remarks on page 3**

GM/JC 6/15/10

22 Standard Joints

S  Y  R  N/A

23 Switch Plates

S  Y  R

24 Adjustable Braces

S  Y  R  N/A

24a Non-Adjustable Braces

S  Y  R  N/A

**Switch Rods**

25 Front Rod

S  Y  R  N/A

26 #1 Rod (Basket Rod)

S  Y  R

27 #2 Rod

S  Y  R

28 #3 Rod

S  Y  R  N/A

29 #4 Rod

S  Y  R  N/A

30 Closure Rail

S  Y  R

31 Surface of Switch

S  Y  R

Using a 62' cord, not over 1" to 1 1/2" for a Y and no more than 1 1/2" to 1 3/4" For a R, Great than 13/4" is Out of Service

32 Head Block Ties

S  Y  R

33 Switch Adjustments

Yes  No

34 Lubrication

Ok  Dry

35 Switch Targets/Lamps

Ok  Missing  N/A

36 Latches

Ok  Broken  Missing

37 Locks

Ok  Broken  Missing

38 General Condition

S  Y  R

39 Insulated Joints

S  Y  R

39a Regular Joints

S  Y  R

50 Location Cromwell  
 50a Switch I.D. # 4843B main sw  
 51 Facing (S) Trailing (S)  
 52 Frog Tread N (S) Y R  
 R (S) Y R

53 Frog # 8  
 54/79 Point Condition (S) Y R  
 55 Condition of Frog (S) Y R  
 56 Surface of Frog (S) Y R

57 Throat in Inches 3 1/2  
 72 Flangeway Depth 2  
**Flangeway Depth must not be less than 1 1/2"**

**Gage**  
 58 Main Track 56 1/2  
 59 Turnout Track 56 9/16  
**Gage must not be less than 56" any class**

**Guard Rails**  
 60 Guard Rail Gage N 54 1/2 R 54 5/8  
**Guard Rail Gage must more than 54 3/8"**  
 61 Back To Back N 52 1/2 R 52 5/8  
**Back to Back Gage must be less than 53 1/8"**

62 Condition (S) Y R  
 63 Location of Guard Rail (Relation to Point) (S) Y R

**Guard Rail Clamps**  
 64 Main Track S Y R N/A  
 65 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**  
 GM/JC 6/15/10

**Turnout Ties**

66 Condition (S) Y R  
 67 Rail Movement (S) Y R

**Tie Plates**

68 Lead (S) Y R  
 69 Guard Rail Flangeway (S) Y R N 1 7/8 R 1 7/8  
**Guard Rail Flangeway can not be less 1 1/2"**  
 70 Guard Rail Plates (S) Y R  
 71 Frog Plates (S) Y R

**Bolts**  
 73 Loose ✓ N/A  
 74 Missing ✓ N/A

**Rivets (Huck)**

75 Loose ✓ N/A  
 76 Missing ✓ N/A  
 77 Nuts Missing ✓ N/A  
 78 Cotter Pins Missing ✓ N/A  
 79 Washers (Ok) Broken ✓ Missing ✓

80 Hold Down Devices (S) Y R N/A

81 Spring Housing S Y R (N/A)  
 82 Derails S Y R (N/A)

83 **Maximum difference in any 31' in Cross Level on the siding from the Frog Point to 50' beyond the last long tie**  
(Ok) Difference \_\_\_\_\_

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



**Remarks**

[Lined area for handwritten remarks]

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Everything is class 3 for Mainline and class 1 for the Yard.

**S** Everything is in Specs.

**Y** Attention needed.

**R** Immediate attention needed or Out of Service.

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

06-15-10  
GM/JC 6/15/10

Mainline Switch Inspection Report Semi-Annual

WO# 1422083 Page 1 of 3

Date 3-12-2014  
Watchman \_\_\_\_\_

Inspection Crew Pollard, Sell, Alchira

1 Location CMN 770  
2 Switch I.D. # 770  
3 Facing  Trailing

Rail Points

4 Point to Point 51/8  
5 Point Condition  
S Y R Nothing less than 4 inches or greater than 5 inches.  
6 Point Throw. Min 3 1/2 inches on house top point protected  
N 4 1/2 R 4 1/2  
6a Point Opening  
N 5 1/2 R 5 1/2

7 Fit  
 S  Y  R  
8 General Condition of the Points  
 S  Y  R

Gage

Heel of Switch  
9 Main 56 3/8  
10 Turnout 56 1/2  
11 Gage ahead of Bend 56 1/2  
Must not be less than 56 inches or more than 57 inches for "S"  
12 Heel Spread in Inches  
Turnout 6 1/4  
13 Main 6 1/2

Stock Rail

14 Bend  
 S  Y  R  
15 Condition  
 S  Y  R

Bolts

16 Loose  N/A  
17 Missing  N/A

Rivets (Huck Bolts)

18 Loose  N/A  
19 Missing  N/A  
20 Cotter Pins Missing  N/A  
21 Jam Nuts Loose  N/A  
21a Washers  Ok  Broken  Missing

Remarks on page 3

GNF IC 11-10-2011

22 Standard Joints  
S Y R N/A

23 Switch Plates  
 S  Y  R

24 Adjustable Braces  
 S  Y  R N/A

24a Non-Adjustable Braces  
S Y R N/A

Switch Rods

25 Front Rod  
S Y R N/A

26 #1 Rod (Basket Rod)  
 S  Y  R

27 #2 Rod  
 S  Y  R

28 #3 Rod  
 S  Y  R N/A

29 #4 Rod  
S Y R N/A

30 Closure Rail  
 S  Y  R

31 Surface of Switch  
 S  Y  R

Using a 62' cord, not over 1" to 1 1/2" for a Y and no more than 1 1/2" to 1 3/4" for a R, Great than 13/4" is Out of Service

32 Head Block Ties  
 S  Y  R

33 Switch Adjustments  
Yes  No

34 Lubrication  
 Ok  Dry

35 Switch Targets/Lamps  
Ok  Missing  N/A

36 Latches  
 Ok  Broken  Missing

37 Locks  
 Ok  Broken  Missing

38 General Condition  
 S  Y  R

39 Insulated Joints  
 S  Y  R

39a Regular Joints  
 S  Y  R

50 Location \_\_\_\_\_

50a Switch I.D. # 770

51 Facing Trailing

52 Frog Tread N S Y R

R S Y R

53 Frog # 8

54/79 Point Condition

S Y R

55 Condition of Frog

S Y R

56 Surface of Frog

S Y R

57 Throat in Inches 3 1/4

72 Flangeway Depth 1 3/8

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

**Gage**

58 Main Track 56 1/2

59 Turnout Track 56 1/2

**Gage must not be less than 56" any class**

**Guard Rails**

60 Guard Rail Gage N 54 1/2 R 54 9/16

**Guard Rail Gage must more than 54 3/8"**

61 Back To Back N 52 1/2 R 52 3/4

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

62 Condition

S Y R

63 Location of Guard Rail (Relation to Point)

S Y R

**Guard Rail Clamps**

64 Main Track

S Y R N/A

65 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**

GM/JC 11-10-2011

**Turnout Ties**

66 Condition

S Y R N/A

67 Rail Movement

S Y R N/A

**Tie Plates**

68 Lead

S Y R N/A

69 Guard Rail Flangeway

S Y R N 2 R 1 3/8

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

70 Guard Rail Plates

S Y R N/A

71 Frog Plates

S Y R N/A

**Bolts**

73 Loose 5 N/A

74 Missing 0 N/A

**Rivets (Huck)**

75 Loose 0 N/A

76 Missing 0 N/A

77 Nuts Missing 0 N/A

78 Cotter Pins Missing 0 N/A

79 Washers Ok Broken 0 Missing 0 N/A

80 Hold Down Devices

S Y R N/A

81 Spring Housing

S Y R N/A

82 Derails

S Y R N/A

83 **Maximum difference in any 31' in Cross**

**Level on the siding from the Frog Point to**

**50' beyond the last long tie**

Ok Difference \_\_\_\_\_

84 Condition of Line thru entire turnout

S Y R

**Remarks**

5 lag bolts loose  
Needs new derail signal  
rotted 12' tie

Switch inspection complete

All rules come out of the MTA Field Guide for Track Inspectors updated April 2006 edition.  
Everything is class 3 for Mainline and class 1 for the Yard.

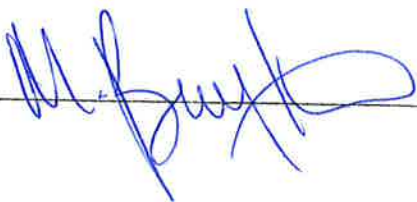
S Everything is in Specs.

Y Attention needed.

R Immediate attention needed or Out of Service.

N/A Not applicable or not measurable.

Reviewed by:



Date:

3-25-14