

CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION



CONDITION INSPECTION
MERRITT 7 STATION

GENERAL RECOMMENDATION 3

**CONN. DEPT OF TRANSPORTATION
STATION INSPECTION**

INSPECTION RATING SCALE

The following rating scale is used for inspections:

- 1- Totally deteriorated, or in failed condition.
- 2- Serious deterioration, or not functioning as originally designed.
- 3- Minor deterioration, but functioning as originally designed.
- 4- New condition. No deterioration.
- 5- Not applicable.
- 6- Condition and/or existence unknown.

STATION: Merritt 7
LINE: Danbury
INSPECTION DATE: 12-8-01
INSPECTION AGENCY / FIRM: UA
INSPECTORS: WV, RGW
WEATHER: Drizzle, 40's

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 2 OF 27

PARKING ELEMENTS

QUADRANT # I

TYPE OF SURFACE: asphalt x PAVED; _____ GRAVEL; _____ DIRT;
_____ OTHER (DESCRIBE)

CONDITION OF PAVED SURFACE: 2

CONDITION OF STRIPING: 3

CONDITION OF BASIN / DRAINS / ETC: 3
(FOR LOCATION SEE SHEET: see sketch)

SIGNAGE: 3

FENCE AND GUARDRAIL: 3

LANDSCAPE: 3

SIDEWALK: 2

CURB: 3

QUADRANT # II

TYPE OF SURFACE: asphalt x PAVED; _____ GRAVEL; _____ DIRT;
_____ OTHER (DESCRIBE)

CONDITION OF PAVED SURFACE: 3

CONDITION OF STRIPING: 5

CONDITION OF BASIN / DRAINS / ETC: 5
(FOR LOCATION SEE SHEET: _____)

SIGNAGE: 5

FENCE AND GUARDRAIL: 5

LANDSCAPE: 5

SIDEWALK: 5

CURB : 3

STATION: Merritt 7
LINE: Danbury
INSPECTION DATE: 12-8-01
INSPECTION AGENCY / FIRM: UA
INSPECTORS: WV, RGW
WEATHER: Drizzle, 40's

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 3 OF 27

PARKING ELEMENTS

QUADRANT # III

TYPE OF SURFACE: asphalt PAVED; _____ GRAVEL; _____ DIRT;
_____ OTHER (DESCRIBE)

CONDITION OF PAVED SURFACE: 3

CONDITION OF STRIPING: 3

CONDITION OF BASIN / DRAINS / ETC: 3
(FOR LOCATION SEE SHEET: see sketch)

SIGNAGE: 3

FENCE AND GUARDRAIL: 3

LANDSCAPE: 3

SIDEWALK: 2

CURB: 3

STATION: Merritt 7
 LINE: New Haven-Danbury Branch
 INSPECTION DATE : January 23, 2002
 INSPECTION AGENCY / FIRM: Parsons Brinckerhoff
 INSPECTORS: Jim Connell & Dave Lang
 TIME OF INSPECTION: A.M.
 WEATHER: Clear

CONN. DEPT OF TRANSPORTATION
 STATION INSPECTION REPORT
 SHEET 5 OF 27

PLATFORM --- SERVICE

| | | | | | | | |
|----------------------------|---------|----------------------------|-----------------------|------------|---------|-------------|-----|
| Voltage Rating (V) | 120/240 | Type of 3 phase connection | | Delta | n/a | Wye | n/a |
| | | Method of Entrance | | Overhead | n/a | Underground | X |
| Rating of Main Breaker (A) | unknown | Origin of Service | | Pole | X | Transformer | n/a |
| | | Code Compliant | | Yes | X | No | n/a |
| Quantity of Phases | 1 | Pole Number & Street | CL&P 25385 Glover St. | Wire Sizes | unknown | | |

Remarks: We were unable to gain access to the electrical service enclosure to verify the exact size and condition of the main panelboard.

PLATFORM --- ELECTRICAL SYSTEMS

| Electrical Device | Manufacturer | Model Number | Rating | Location | Estimated Age/Life(y/y) | Visual Condition |
|-------------------------|--------------|--------------|---------|-------------|-------------------------|---------------------|
| Main Distribution Panel | unknown | unknown | unknown | parking lot | unknown | unknown |
| Main Disconnect Switch | n/a | n/a | n/a | n/a | n/a | n/a |
| Transformer | n/a | n/a | n/a | n/a | n/a | n/a |
| Receptacles | n/a | n/a | n/a | n/a | n/a | n/a |
| Grounding | unknown | unknown | unknown | unknown | unknown | unknown |
| Lighting Controls | unknown | unknown | 3 | parking lot | unknown | minor deterioration |
| Public Telephone | unknown | n/a | n/a | platform | n/a | operational |
| Station Telephone | n/a | n/a | n/a | n/a | n/a | n/a |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Remarks: _____

STATION: Merritt 7

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 6 OF 27

INSPECTORS: Jim Connell & Dave Lang

DATE: January 23, 2002

STATION PLATFORM --- ELECTRICAL AND LIGHTING SUMMARY

The electrical service is terminated in a small exterior metering pedestal enclosure with a built in panelboard. The panelboard is adequately serving the electrical needs for the station platform and the small canopy structure.

The platform luminaries are mounted beneath the canopy with two additional pole mounted luminaires. They provide 14.0 foot-candles near the structure. However, the one light pole mounted at each end of the platform provides less than 1 foot-candle of light. We recommend that several light fixtures be uniformly installed to raise the average light level to the minimal 5 foot-candles recommended by the IESNA.

STATION: Merritt 7
LINE: New Haven-Danbury Branch
INSPECTION DATE: April 4, 2002
INSPECTION AGENCY/FIRM: Warren & Panzer Engineers
INSPECTOR: Josue Garcia/Bosun Ogunnaike
WEATHER: Good

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 8 of 27

HAZARDOUS MATERIALS INSPECTION

LEAD-BASED PAINT

Note: The LBP inspection was conducted using an RMD LPA-1 spectrum X-Ray Fluorescence Analyzer (XRF). The Department of Housing and Urban Development (HUD) recommend XRF analysis for inspection of lead in paint. XRF readings were taken of surfaces coated with suspect LBP. The XRF was operated in "Quick Mode" for this project. In Quick Mode, the measurement time is determined by the LPA-1 Analyzer to achieve a 95% confidence measurement compared to an action level (1.0 mg/cm²).

Platform

| Surfaces Tested | # of Locations Tested | Lead Presence (>1 mg/cm ²) | Rating |
|------------------------|-----------------------|--|--------|
| Telephone Booth | 2 | No | 3 |
| Platform Warning Strip | 3 | Yes | 3 |

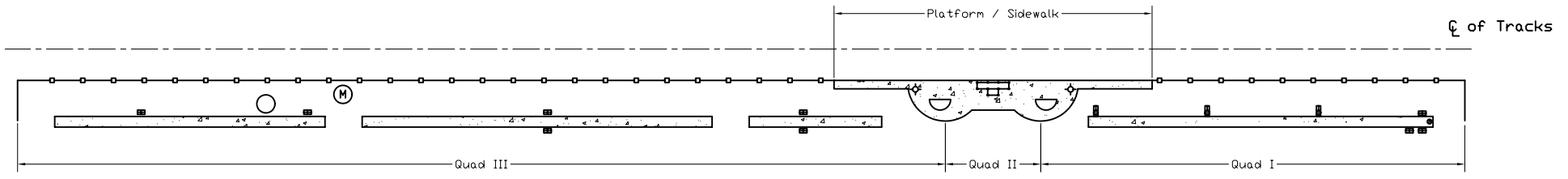
Lead-Based Paint was found on surfaces noted above. Painted surfaces were found to be in fair to good condition. Any future disturbance of the lead-based painted surfaces noted above should be abated by an Environmental Protection Agency/Connecticut Abatement Contractor in accordance with the EPA's 40 CFR 745, HUD's 24 CFR Part 35 and The HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, OSHA's 29 CFR 1926.62, and all other applicable regulations.

SUSPECT ASBESTOS-CONTAINING MATERIALS

Listed below is a suspect asbestos-containing material that was observed during a visual inspection. The material was found to be in fair to good condition. Any future disturbance of these materials should be preceded by the collection of samples and laboratory analysis of these samples. This work must be performed by a certified inspector.

Platform

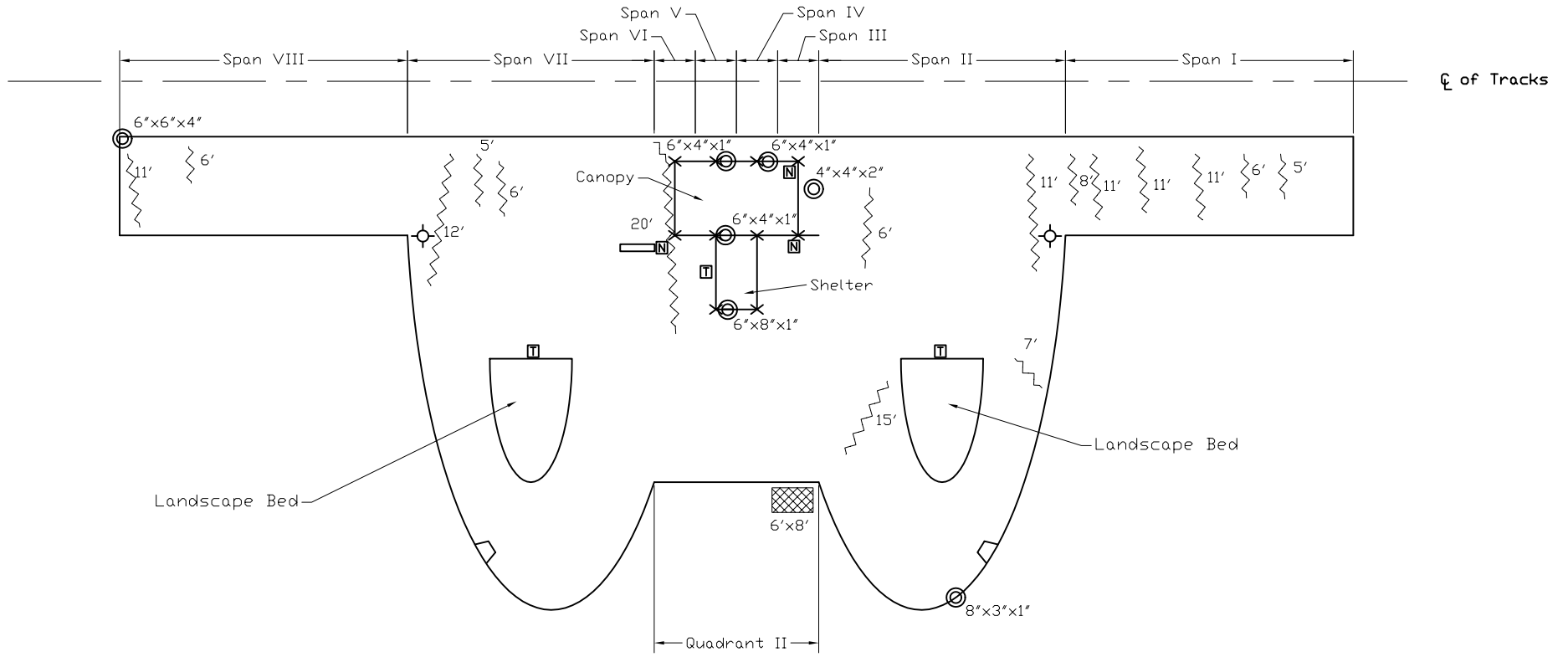
| Suspect Materials | Rating |
|------------------------|--------|
| Platform Seam Caulking | 3 |



Legend:

- Fence and Guard Railing
- Sidewalk
- Sanitary Manhole
- Monitoring Well
- Drain
- Ramp
- Electric Pole
- Electric Pole with Support
- Light

| |
|-------------------------------------|
| Urbitran Associates, Inc. |
| Connecticut Dept. of Transportation |
| Merritt 7 Station General Plan |
| Date: 12-21-01 |



Legend:

- Cracks
- Map Cracks
- Spalled area
- Drop Curb
- Column
- Sign
- Trash Receptacle
- Newspaper Dispenser
- Light

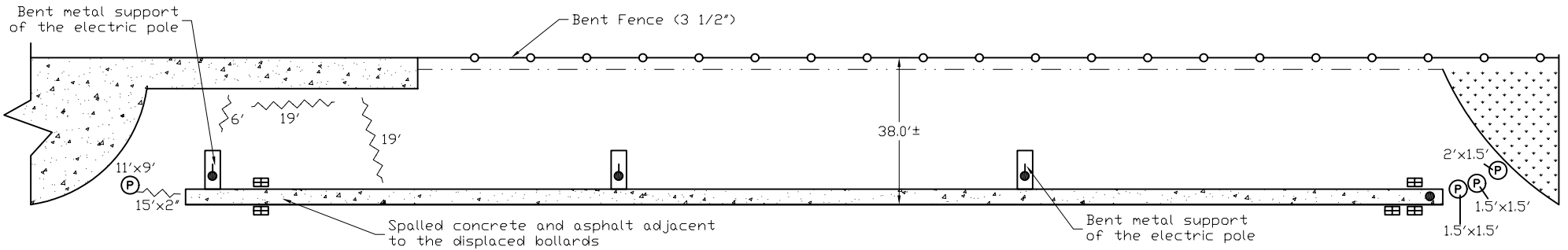
NOTES:

1. Surface displays minor scaling throughout the entire platform surface.

| |
|--|
| Urbitran Associates, Inc. |
| Connecticut Dept. of Transportation |
| Merritt 7 Station Platform and Quadrant II Plan |
| Date: 12-21-01 |



℄ of Tracks



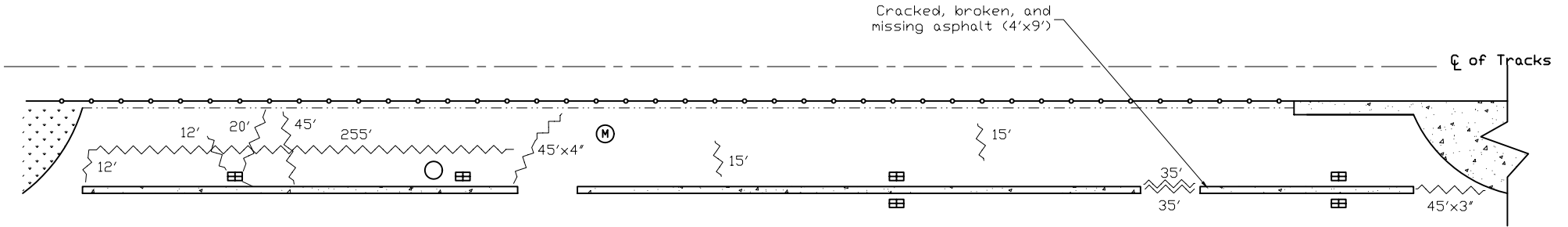
Legend:

- Fence
- Guardrail
- Cracks
- Grass
- Sidewalk
- Drain
- Ponding
- Electric Pole
- Electric Pole with Support

NOTES:

1. There is minor rusting on the fence.

| |
|--|
| Urbitran Associates, Inc. |
| Connecticut Dept. of Transportation |
| Merritt 7 Station Quadrant I Plan |
| Date: 12-21-01 |



Legend:

- Fence
- Guard Railing
- Cracks
- Grass
- Sidewalk
- Sanitary Manhole
- Monitoring Well
- Drain

| |
|--|
| Urbitran Associates, Inc. |
| Connecticut Dept. of Transportation |
| Merritt 7 Station Quadrant III Plan |
| Date: 12-21-01 |

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 14 OF 27

PHOTO NO. 1

Location: _____
Span II

Description: _____
General view of Quad I

Reference: _____
Looking west



PHOTO NO. 2

Location: _____
East of Quad II

Description: _____
General view of Quad II;
Note map cracking
(6'x8')

Reference: _____
Looking east



STATION: Merritt 7

INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 15 OF 27

PHOTO NO. 3

Location: _____
Span VII

Description: _____
General view of Quad III

Reference: _____
Looking east



PHOTO NO. 4

Location: _____
East end of Quad III

Description: _____
General view of Quad III

Reference: _____
Looking west



STATION: Merritt 7

INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 16 OF 27

PHOTO NO. 5

Location: _____
North of the platform

Description: _____
General view of the
shelter

Reference: _____
Looking south



PHOTO NO. 6

Location: _____
Span II

Description: _____
General view of the
shelter

Reference: _____
Looking east



STATION: Merritt 7

INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 17 OF 27

PHOTO NO. 7

Location: _____
East end of the platform

Description: _____
General view of the platform

Reference: _____
Looking west

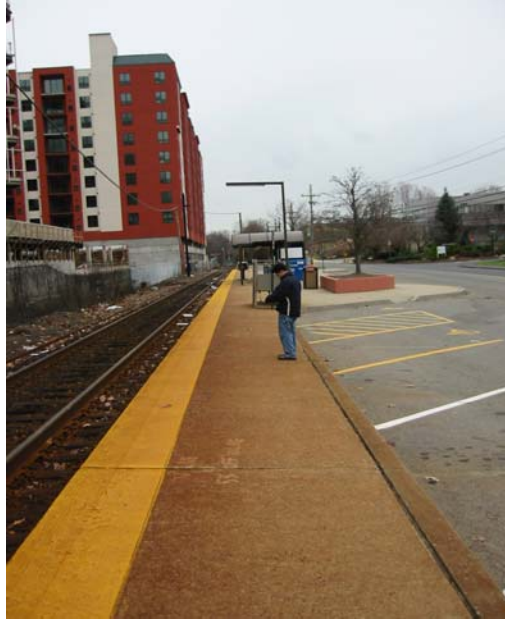


PHOTO NO. 8

Location: _____
West end of the platform

Description: _____
General view of the platform

Reference: _____
Looking east



STATION: Merritt 7

INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 18 OF 27

PHOTO NO. 9

Location: _____
Middle of Span VII

Description: _____
Typical cracks along the platform

Reference: _____
Looking west



PHOTO NO. 10

Location: _____
Span 5

Description: _____
Typical concrete scaling along the platform

Reference: _____
Looking northwest



STATION: Merritt 7

INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 19 OF 27

PHOTO NO. 11

Location: _____
Span III

Description: _____
Spalled concrete
(4"x4"x2")

Reference: _____
Looking down



PHOTO NO. 12

Location: _____
Span V

Description: _____
Spalled concrete at the
base of the shelter's
column

Reference: _____
Looking northeast



STATION: _____
INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 20 OF 27

PHOTO NO. 13

Location: East end of the asphalt median in Quad I

Description: Typical crack and ponding of water in Quad I

Reference: Looking east



PHOTO NO. 14

Location: Southside of Quad I

Description: Minor rust is present throughout the fence. There is one isolated area where the top rail of the fence is displaced vertically by 4"

Reference: Looking south



STATION: Merritt 7

INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 21 OF 27

PHOTO NO. 15

Location: Southside of Quad I

Description: Typical rust located on the South fence in Quad I

Reference: Looking west

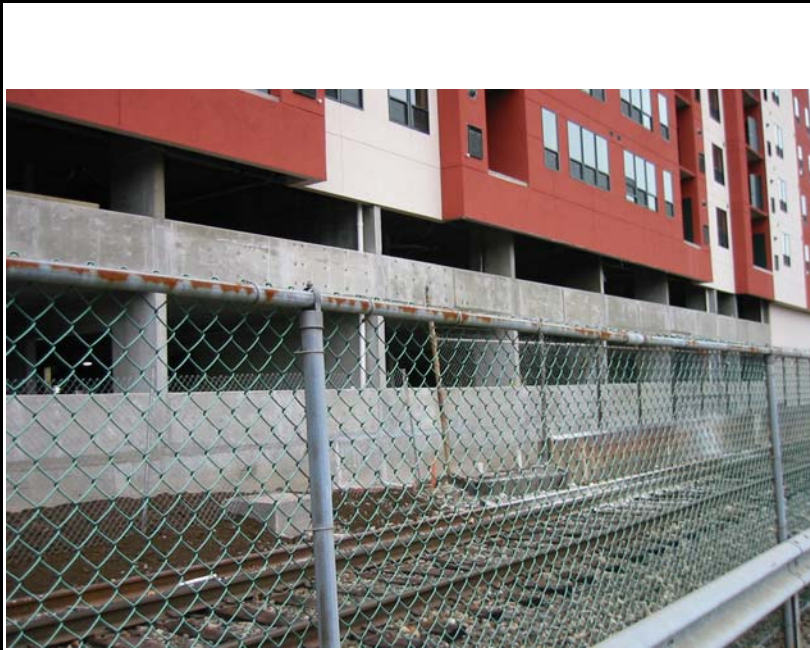


PHOTO NO. 16

Location: East side of Quad I

Description: Spalled asphalt and concrete adjacent to the displaced bollards

Reference: Looking northeast



STATION: Merritt 7

INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 22 OF 27

PHOTO NO. 17

Location: East side of Quad I

Description: Bent cable support for the electrical pole;

Reference: Looking west



PHOTO NO. 18

Location: West side of Quad III

Description: The asphalt pavement is cracked, spalled, and there is an uneven alignment between the street and Quad III

Reference: Looking east



STATION: Merritt 7

INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 23 OF 27

PHOTO NO. 19

Location: _____
Westside of the East
asphalt median

Description: _____
The asphalt pavement
exhibits a crack
up to 4" wide and 45'
long

Reference: _____
Looking south



PHOTO NO. 20

Location: _____
West side of Quad III

Description: _____
The asphalt median
is spalled and cracked
(9'x4')

Reference: _____
Looking north



STATION: Merritt 7

INSPECTORS: WV, RGW

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 24 OF 27

PHOTO NO. 21

Location:
parking lot

Description:
electrical service
pole and pedestal

Reference:
Platform Service
Section



PHOTO NO. 22

Location:
platform

Description:
platform lighting
with canopy

Reference:
Platform Lighting
Section



STATION: Merritt 7
INSPECTORS: Jim Connell & Dave Lang

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 25 OF 27

PHOTO NO. 23

Location:
platform

Description:
platform pole
lighting

Reference:
Platform Lighting
Section



PHOTO NO. 24

Location:
platform

Description:
platform lighting
and speakers

Reference:
Platform Lighting
Section



STATION: Merritt 7
INSPECTORS: Jim Connell & Dave Lang

CONN. DEPT OF TRANSPORTATION
STATION INSPECTION REPORT
SHEET 26 OF 27

PHOTO NO. 25

Location:
MERRITT 7
STATION

Description:
Station name

Reference:
Mechanical

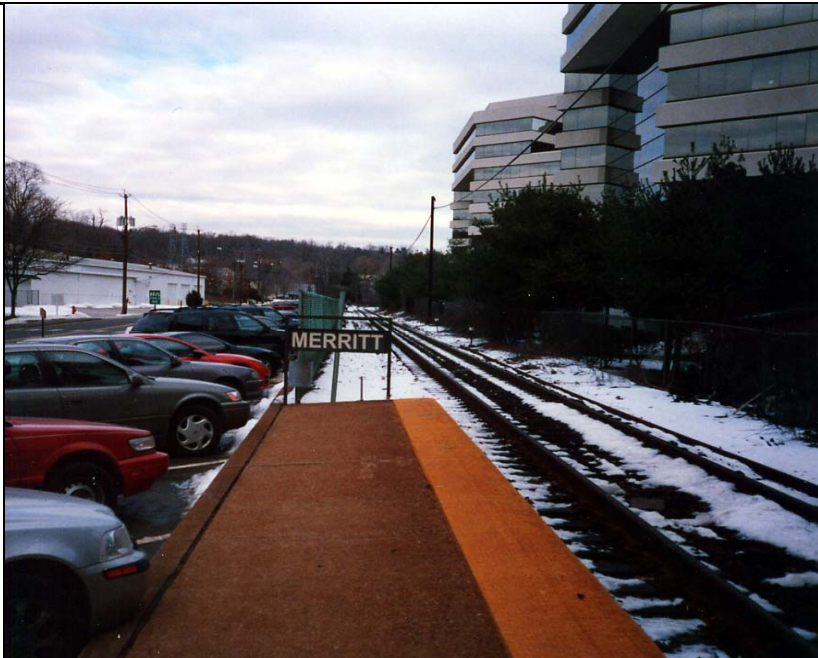


PHOTO NO. 26

Location:
MERRITT 7
STATION

Description:
Rain shelter
part with curbed
roof, corrugated
metal wings,
no gutters or
downspouts

Reference:
Mechanical



STATION: MERRITT 7

INSPECTORS: J. Duncan & T. Abrahamson

Merritt 7 Station

| Description | Units | Quantity | Price / Unit | Total Cost | |
|---|-----------------|----------|--------------|-------------|----|
| Fill asphalt cracks (minor) | ft | 776.00 | \$2.00 | \$1,552.00 | ** |
| Fill asphalt cracks (major) | ft | 105.00 | \$9.00 | \$945.00 | ** |
| <u>Repair asphalt median/sidewalk</u> | | | | | ** |
| -Remove asphalt | yd ³ | 1.00 | \$30.00 | \$30.00 | ** |
| -6" asphalt top course and binder course | yd ² | 6.00 | \$25.00 | \$150.00 | ** |
| <u>Repair potholes and ponding</u> | | | | | |
| -Remove asphalt | yd ³ | 2.00 | \$30.00 | \$60.00 | ** |
| -6" asphalt top course and binder course | yd ² | 12.00 | \$25.00 | \$300.00 | ** |
| Repair spalled Concrete | ft ² | 136.00 | \$40.00 | \$5,440.00 | ** |
| Fill concrete cracks | ft | 152.00 | \$9.00 | \$1,368.00 | ** |
| Add 20' poles with single arm luminaire * | EACH | 12.00 | \$2,795.00 | \$33,540.00 | ** |
| Mobilization / Demobilization (10%) | | | | \$4,338.50 | ** |
| | | | | | |
| Sub-total | | | | \$47,723.50 | ** |
| Contingency (20%) | | | | \$9,544.70 | ** |
| Grand Total | | | | \$57,268.20 | ** |
| Say | | | | \$58,000.00 | ** |

* The quantity of platform luminaires required to bring lighting up to recommended levels is an order-of-magnitude estimate. Performance of a lighting design is required to develop a precise quantity estimate.

** The extent of deterioration noted during our inspection is minimal and does not require immediate repair. The type and extent of deterioration will not affect the station operations or commuters. Therefore, we recommend that the defects noted in this report be included in a future station maintenance rehabilitation contract.