February 29, 2016

Roseann Sillasen, RN-BC, BSN, MALS
Associate Director, Project Manager
Wesleyan University Facilities
170 Long Lane
Middletown, CT 06457
rsillasen@wesleyan.edu

Re: Wesleyan University 2016 Fire Escapes
Survey and Report

Dear Roseann:

As requested, GNCB performed a survey of eight Wesleyan University steel fire escapes in February 2016. The following is a report which documents our findings and provides recommended repairs and maintenance work on these fire escapes.

Please let us know if we can answer any questions about this report or its recommendations.

Very truly yours,

Joshua M. Dobbs-McAuliffe
Engineer
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FISK HALL – SOUTH STAIR

PHOTOS: 1-8

MATERIALS:
STEEL – PAINTED GREY

STAIR DESCRIPTION:
COVERED EXTERIOR EGRESS ON THE EAST SIDE OF THE BUILDING ACCESSING THE 2ND, 3RD AND 4TH FLOORS ON THE SOUTHERN SIDE WITH INTERMEDIATE LANDINGS LOCATED ON THE NORTHERN SIDE AND BETWEEN EACH FLOOR.

STRUCTURAL SYSTEM:
6 LEVEL PLATFORM WITH CANOPY. C10x STEEL INTERIOR CHANNEL STRINGERS SUPPORTED ON (2) 6x6 SQUARE STEEL TUBES WITH C12x STEEL CHANNEL SPANDRELS ATTACHED TO THE INTERIOR STRINGERS SUPPORTING C12x STEEL EXTERIOR CHANNEL STRINGERS. (4) STINGERS AT EACH PLATFORM WITH 1/8” DIAMOND TREAD PLATES ON 1” x 3/16” GRATING AT 1 -1/4” oc. LANDING AND TREADS. CHANNELS ARE ANCHOR TO BUILDING SUPPORTING THE 1ST, 2ND AND 3RD FLOOR LANDINGS WITH SPANDREL CHANNELS TO BUILDING AT INTERMEDIATE LANDINGS. 2” O.D. STEEL PIPE ON 3/4”x 3/4” BAR POSTS ON 2”x 1-1/2” STEEL TUBE RAILING ATTACHED TO 3/4”x3/4” BAR BALUSTERS WITH 1/2”x 1-1/4” BARS TOP AND BOTTOM STICH WELDED TO CHANNELS.

OBSERVATIONS:
1) GENERALLY GOOD CONDITION.
2) ORGANIC GROWTH WAS OBSERVED IN SEVERAL AREAS.
3) PAINT DETERIORATION & RUST WAS OBSERVED IN SEVERAL AREAS INCREASING TOWARD THE LOWER LEVELS.
4) DETERIORATION AND/OR RUST AT THE TOP & BOTTOM BARS OF BALUSTERS AT LOWER LEVELS.
5) VEGETATION WAS ENCROACHING LOWER STEEL PLATFORM STRINGERS, LANDING AND COLUMN.

MAINTENANCE & REPAIRS:
1) CLEAN OFF ALL ORGANIC GROWTH.
2) AT AREAS OF DETERIORATED PAINT & RUST, PREP STEEL AND PAINT WITH A ZINC RICH EXTERIOR PAINT.
3) FOR DETERIORATED AND/OR RUST ED TOP AND BOTTOM 1/2”x 1-1/4” BARS AT BALUSTERS, PREP STEEL AND PAINT OR REPAIR IF MORE THAN 30% OF STEEL MATERIAL IS LOST.
4) REMOVE VEGETATION AWAY LOWER STEEL PLATFORM STRINGERS, LANDING AND COLUMN.
PHOTO 1 – FISK HALL SOUTH STAIR
PHOTO 6- INTERIOR CHANNEL PEELING PAINT & RUST

PHOTO 7 – DETERIORATED RAILING TYPICAL

PHOTO 8 – PAINT DETERIORATION, RUST AT COLUMN

BUILDING:
FISK HALL – SOUTH STAIR

ADDRESS:
262 HIGH STREET

DATE:
2-29-2016

SHEET NO.
1-4

Wesleyan University
2016
FIRE ESCAPE SURVEY & REPORT

GNCB Consulting Engineers, Inc.
Old Saybrook, CT 06475
PHOTOS: 9-16

MATERIALS:
STEEL – PAINTED GREY

STAIR DESCRIPTION:
COVERED EXTERIOR EGRESS ON THE EAST SIDE OF THE BUILDING ACCESSING THE 2ND, 3RD AND 4TH FLOORS ON THE NORTHERN SIDE WITH INTERMEDIATE LANDINGS LOCATED ON THE SOUTHERN SIDE AND BETWEEN EACH FLOOR.

STRUCTURAL SYSTEM:
6 LEVEL PLATFORM WITH CANOPY. C10x STEEL INTERIOR CHANNEL STRINGERS SUPPORTED ON (2) 6x6 SQUARE STEEL TUBES WITH C12x STEEL CHANNEL SPANDRELS ATTACHED TO THE INTERIOR STRINGERS SUPPORTING C12x STEEL EXTERIOR CHANNEL STRINGERS. (4) STINERS AT EACH PLATFORM WITH 1/8” DIAMOND TREAD PLATES ON 1” x 3/16” GRATING AT 1 -1/4” oc. LANDING AND TREADS. CHANNELS ARE ANCHORED TO BUILDING SUPPORTING THE 1ST, 2ND AND 3RD FLOOR LANDINGS WITH SPANDREL CHANNELS ANCHORED TO BUILDING AT INTERMEDIATE LANDINGS. 2” O.D. STEEL PIPE ON 3/4”x 3/4” BAR POSTS ON 2”x 1-1/2” STEEL TUBE RAILING ATTACHED TO 3/4”x3/4” BAR BALUSTERS WITH 1/2”x 1-1/4” BARS TOP AND BOTTOM STITCH WELDED TO CHANNELS.

OBSERVATIONS:
1) GENERALLY GOOD CONDITION.
2) ORGANIC GROWTH WAS OBSERVED IN FEW AREAS.
3) PAINT DETERIORATION & RUST WAS OBSERVED IN SEVERAL AREAS.
4) DETERIORATION AND/OR RUST AT THE TOP & BOTTOM BARS OF BALUSTERS AT SEVERAL LEVELS.
5) OBSERVED ITEMS ON LOWER LEVEL LANDING

MAINTENANCE & REPAIRS:
1) CLEAN OFF ALL ORGANIC GROWTH.
2) AT AREAS OF DETERIORATED PAINT & RUST, PREP STEEL AND PAINT WITH A ZINC RICH EXTERIOR PAINT.
3) FOR DETERIORATED AND/OR RUSTED TOP AND BOTTOM 1/2”x 1-1/4” BARS AT BALUSTERS, PREP STEEL AND PAINT OR REPAIR IF MORE THAN 30% OF STEEL MATERIAL IS LOST.
4) REMOVE ITEMS ON LOWER LEVEL LANDING. ALL STAIRS AND LANDINGS SHOULD BE CLEAR.
PHOTO 10 - CANOPY PEELING PAINT

PHOTO 11 - INTERIOR CHANNEL PEELING PAINT & RUST

PHOTO 12 – PAINT DETERIORATION, RUST AT LANDING TYPICAL.

PHOTO 13 – DETERIORATED RAILING TYPICAL.

BUILDING: FISK HALL – NORTH STAIR
ADDRESS: 262 HIGH STREET
DATE: 2-29-2016
SHEET NO. 2-3
PHOTO 14 – ITEMS ON LOWER LEVEL

PHOTO 15 – PAINT DETERIORATION, RUST AT TREAD TYP.

PHOTO 16 – PAINT DETERIORATION, RUST AT COLUMN

BUILDING: FISK HALL – NORTH STAIR
ADDRESS: 262 HIGH STREET
DATE: 2-29-2016
SHEET NO. 2-4
**PHOTOS:** 17-23

**MATERIALS:**
STEEL – PAINTED GREY

**STAIR DESCRIPTION:**
EXTERIOR EGRESS ON THE SOUTH SIDE OF THE BUILDING ACCESSING THE UPPER FLOORS WITH INTERMEDIATE LANDINGS LOCATED ON THE EASTERN SIDE OF THE STAIRS.

**STRUCTURAL SYSTEM:**
3 LEVEL PLATFORM. EACH PLATFORM HAS INTERIOR STEEL CHANNEL STRINGERS SUPPORTED BY STEEL CHANNELS ATTACHED TO BOTH EXTERIOR STEEL CHANNEL STRINGERS AND THE BUILDING. THE EXTERIOR STRINGERS ARE SUPPORTED BY STEEL CHANNEL SPANDRELS ATTACHED TO 6x6 STEEL TUBE COLUMNS (4 total). 1” x 3/16” GRATING AT 1 -1/4” oc. LANDING AND TREADS. CHANNELS ARE ANCHORD TO BUILDING SUPPORTING THE UPPER FLOOR LANDINGS 2” x 1-1/2” STEEL TUBE RAILING ATTACHED TO 3/4”x3/4” BAR BALUSTERS WITH 1/2”x 1-1/4” BARS TOP AND BOTTOM STICH WELDED TO CHANNELS.

**OBSERVATIONS:**
1) BASE OF LOWER STRINGERS & (2) COLUMNS BELOW GRADE AND REMAINING (2) COLUMNS AT GRADE.
2) PAINT DETERIORATION & RUST WAS OBSERVED IN SEVERAL AREAS.
3) DETERIORATION AND/OR RUST AT THE BOTTOM BARS OF BALUSTERS AT SEVERAL LEVELS.
4) LOOSE EXPANSION ANCHOR AT 5TH LANDING FORM BOTTOM.

**MAINTENANCE & REPAIRS:**
1) LOWER GRADE TO AT LEAST 2” BELOW ALL COLUMN & STRINGER BASES.
2) AT AREAS OF DETERIORATED PAINT & RUST, PREP STEEL AND PAINT WITH A ZINC RICH EXTERIOR PAINT.
3) FOR DETERIORATED AND/OR RUSTED BOTTOM 1/2”x 1-1/4” BARS AT BALUSTERS, PREP STEEL AND PAINT OR REPAIR IF MORE THAN 30% OF STEEL MATERIAL IS LOST.
4) REPLACE LOOSE EXPANSION ANCHORS WITH NEW STAINLESS STEEL ADHESIVE ANCHORS.
### Building Information

**Building:** SOUTH COLLEGE  
**Address:** 229 HIGH STREET  
**Date:** 2-29-2016  
**Sheet No.:** 3-2
PHOTO 18 - STRINGERS & COLUMNS BELOW GRADE

PHOTO 19 - DETERIORATED RAILING

PHOTO 20 – PAINT DETERIORATION, RUST AT STRINGERS TYPICAL.

PHOTO 21 – PAINT DETERIORATION, RUST AT COLUMNS & RAILING TYPICAL.
PHOTO 22 – PAINT DETERIORATION, RUST AT LANDING TYPICAL.

PHOTO 23 – LOOSE EXPANSION ANCHOR AT 5TH LANDING

BUILDING: SOUTH COLLEGE
ADDRESS: 229 HIGH STREET
DATE: 2-29-2016
SHEET NO. 3-4
PHOTOS: 24-31

MATERIALS:
STEEL – PAINTED BLACK & WOOD FRAME DECK – TREATED LUMBER

STAIR DESCRIPTION:
EXTERIOR EGRESS ON THE EAST SIDE OF THE BUILDING ACCESSING THE 1ST, 2ND & 3RD WITH STEEL LANDINGS AT THE 2ND & 3RD FLOORS AND WITH A STEEL LANDING NEXT TO A WOOD DECK AT THE 1ST FLOOR.

STRUCTURAL SYSTEM:
1/4” x 8” STEEL PLATE STRINGERS WITH 2” x 1/4” STEEL BARS AT 1-3/4”oc TREADS AND 2” x 1/4” STEEL BARS AT 1-3/4”oc ON (4) C4x STEEL CHANNEL LANDINGS. 3RD FLOOR STEELLANDING SUPPORTED BY (3) L3” x 3”x 1/4” DIAGONAL ANGLE BRACKETS ANCHORED TO BRICK WALL. 2ND FLOOR STEEL LANDING SUPPORTED AT ONE END BY A C4x CHANNEL ANCHORED TO BRICK WALL AND AT THE OTHER END BY A W8x STEEL COLUMN BRACED AT 1ST FLOOR WITH A W4x BEAM. 1ST FLOOR STEEL LANDING SUPPORTED ON (4) L3” x 3”x 1/4” ANGLE POSTS. 1ST FLOOR WOOD DECK SUPPORTED BY PT 2x6 JOISTS AT 12”oc ATTACHED TO PT 4x6 BEAMS BEARING IN BRICK WALL AND PT WOOD POSTS. PT POSTS WERE NOT OBSERVED. L 1-3/4” x 1-3/4”x 1/4 TOP RAIL AND NEWELS WITH AN INTERMEDIATE 2” x 1/4” STEEL BAR RAIL. 2” x 1/4” STEEL BAR CROSS BRACING.

OBSERVATIONS:
1) GENERALLY GOOD CONDITION WITH MINOR RUST AND ORGANIC GROWTH OBSERVED AT STRINGERS, TREADS AND LANDINGS.
2) 2x6 JOISTS & 4x6 BEAMS OVERSTRESSED FOR 100 PSF LOAD PER CODE REQUIREMENTS.
3) DAMAGED W8x COLUMN FLANGE DUE TO VEHICULAR COLLISION. COLUMN STILL HAS ADEQUATE CAPACITY TO SUPPORT STAIR & LANDING.
4) DAMAGED 1-3/4” x 1-3/4”x 1/4 NEWEL & INTERMEDIATE 2” x 1/4” STEEL BAR RAIL DUE TO VEHICULAR COLLISION.
5) ACCUMULATED SOIL AROUND POST BASE.
MAINTENANCE & REPAIRS:
1) CLEAN OFF ALL ORGANIC GROWTH.
2) AT AREAS OF DETERIORATED PAINT & RUST, PREP STEEL AND PAINT WITH A ZINC RICH EXTERIOR PAINT.
3) REPLACE PT 2x6 JOISTS WITH PT 2X8 SYP#2 JOISTS WITH GALVANIZED SIMPSON LUS26 HANGERS AND REPLACE PT 4x6 BEAMS WITH PT 4X8 SYP#2 BEAMS. VERIFY WOOD POSTS MIN. PT 6x6.
4) REPLACE DAMAGED 1-3/4” x 1-3/4”x 1/4” NEWEL & INTERMEDIATE 2”x 1/4” STEEL BAR RAIL. PROVIDE STEEL OR CONCRETE BOLLARDS WITH MINIMUM 42” HEIGHT AT STAIR BASE TO PROTECT FROM FUTURE INCIDENCES.
5) ENCASE W8X COLUMN WITH CONCRETE OR PROVIDE STEEL OR CONCRETE BOLLARDS WITH MINIMUM 42” HEIGHT TO PROTECT FROM FUTURE INCIDENCES.
6) REMOVE ACCUMULATED SOIL AROUND POST BASE.
PHOTO 29 – FLANGES BENT AT W8x COLUMN

PHOTO 30 – WOOD FRAMING

PHOTO 31 – ACCUMULATED SOIL AROUND POST BASE
PHOTOS: 32-39

MATERIALS:
STEEL – PAINTED BLACK

STAIR DESCRIPTION:
EXTERIOR EGRESS ON THE EAST SIDE OF THE BUILDING ACCESSING THE 1ST AND 2ND FLOORS AND THE ROOF WITH (3) INTERMEDIATE LANDINGS LOCATED ON THE EASTERN SIDE OF THE STAIRS.

STRUCTURAL SYSTEM:
C8x STEEL INTERIOR CHANNEL STRINGERS SUPPORTED BY (2) 3-1/2”x 3-1/2” SQUARE STEEL TUBES AND C8x STEEL EXTERIOR CHANNEL STRINGERS SUPPORTED BY (2) 3-1/2”x 3-1/2” SQUARE STEEL TUBES ON OPPOSITE SIDE OF STAIR. (6) SUPPORT COLUMNS TOTAL. 1” x 3/16” GRATING AT 1 -1/4” oc. LANDING AND TREADS. CHANNELS ARE ANCHORED TO BUILDING SUPPORTING THE LANDINGS AT THE 1ST AND 2ND FLOORS AND THE ROOF. 1-1/2” x 1-1/2” STEEL TUBE TOP RAILING AND NEWELS WELDED TO CHANNELS WITH AN INTERMEDIATE 1”x 1” STEEL TUBE RAIL.

OBSERVATIONS:
1) PAINT DETERIORATION & RUST WAS OBSERVED IN SEVERAL AREAS.
2) INTERIOR STRINGERS DETERIORATED AT TUBE COLUMNS DUE TO CHANNEL END CAP NOT ALLOWING FOR DRAINAGE OF TRAPPED WATER.
3) DETERIORATED CHANNELS AT 2ND FLOOR LANDING
4) DETERIORATED ANGLE AT 1ST FLOOR LANDING
5) DAMAGED TREADS BETWEEN 1ST FLOOR AND LOWER INTERMEDIATE LANDINGS.

MAINTENANCE & REPAIRS:
1) AT AREAS OF DETERIORATED PAINT & RUST, PREP STEEL AND PAINT WITH A ZINC RICH EXTERIOR PAINT.
2) REPAIR DETERIORATED INTERIOR CHANNEL STRINGERS ATTACHED TO COLUMNS AT 1ST & 2ND FLOOR LANDINGS. REMOVE END PLATE TO ALLOW FOR DRAINAGE OF TRAPPED WATER.
3) REPLACE DETERIORATED CHANNELS AT 2ND FLOOR LANDING AND DETERIORATED ANGLE AT 1ST FLOOR LANDING WITH SIMILAR.
4) REPLACE DAMAGED TREADS BETWEEN 1ST FLOOR AND LOWER INTERMEDIATE LANDINGS.
PHOTO 37 – DETERIORATED CHANNEL AT 2ND FLOOR

PHOTO 38 – DETERIORATED ANGLE AT 1ST FLOOR

PHOTO 39 – DAMAGED TREADS

BUILDING: 200 HIGH STREET
ADDRESS: 200 HIGH STREET
DATE: 2-29-2016
SHEET NO. 5-4
PHOTOS: 40-47

MATERIALS:
STEEL – PAINTED BROWN

STAIR DESCRIPTION:
EXTERIOR EGRESS ON THE NORTH SIDE OF THE BUILDING ACCESSING THE 2ND FLOOR AND ATTIC WITH AN INTERMEDIATE LANDING AT THE 1ST FLOOR.

STRUCTURAL SYSTEM:
1/4”x 6” STEEL PLATE STRINGERS WITH 1-1/2”x 1/4” STEEL BARS AT 1-3/4”oc LANDING AND TREADS. ATTIC AND 2ND FLOOR STEEL LANDINGS SUPPORTED BY DIAGONAL ANGLE BRACKETS ANCHORED TO BRICK WALL. INTERMEDIATE LANDING SUPPORTED BY C4x STEEL CHANNELS ANCHORED TO BRICK WALL, A L3-1/2”x 3-1/2”x 1/4” ANGLE POST AND A L3”x 3”x 1/4” ANGLE BRACE ATTACHED TO THE ANGLE POST AT GRADE. L 1-1/2”x 1-1/2”x 3/16 TOP RAIL AND NEWELS WITH AN INTERMEDIATE 1”x 1/4” STEEL BAR RAIL.

OBSERVATIONS:
1) BASE OF LOWER STRINGERS & ANGLE POST BELOW GRADE.
2) PAINT DETERIORATION, RUST AND ORGANIC GROWTH.
3) DAMAGED TOP RAILS AT INTERMEDIATE LANDING.
4) LOOSE EXPANSION ANCHORS AT ATTIC, 2ND FLOOR AND INTERMEDIATE LANDINGS.

MAINTENANCE & REPAIRS:
1) CLEAN OFF ALL ORGANIC GROWTH.
2) AT AREAS OF DETERIORATED PAINT & RUST, PREP STEEL AND PAINT WITH A ZINC RICH EXTERIOR PAINT.
2) REPLACE DAMAGED TOP RAILS WITH L2”x 2”x 1/4” ANGLES AT 1ST LEVEL.
3) REPLACE LOOSE EXPANSION ANCHORS WITH NEW STAINLESS STEEL ADHESIVE ANCHORS.
4) LOWER GRADE TO AT LEAST 2” BELOW ANGLE POST & STRINGER BASES.
| PHOTO 41 - LOOSE EXPANSION ANCHOR AT ATTIC LANDING |
| PHOTO 42 - LOOSE EXPANSION ANCHOR AT 2ND FLOOR LANDING. |
| PHOTO 43 – PAINT DETERiorATION, RUST & ORGANIC GROWTH |
| PHOTO 44 – PAINT DETERiorATION, RUST & ORGANIC GROWTH |

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<td>PHOTO 47 – STRINGERS &amp; ANGLE POST BELOW GRADE</td>
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**BUILDING:**
300 HIGH STREET

**ADDRESS:**
300 HIGH STREET

**DATE:**
2-29-2016

**SHEET NO.:**
6-4
200 CHURCH STREET – EAST STAIR

PHOTOS: 48-58

MATERIALS:
STEEL – PAINTED GREY

STAIR DESCRIPTION:
EXTERIOR EGRESS ON THE EAST SIDE OF THE BUILDING ACCESSING THE 2ND AND 3RD FLOORS WITH (3) INTERMEDIATE LANDINGS.

STRUCTURAL SYSTEM:
3 LEVEL PLATFORM. C10x STEEL INTERIOR CHANNEL STRINGERS SUPPORTED BY (2) 6x6 SQUARE STEEL TUBES. C6x ATTACHED TO 6x6 COLUMNS CANTILEVER EACH SIDE OF COLUMN TO SUPPORT C10x STEEL EXTERIOR CHANNEL STRINGERS WITH C10x STEEL CHANNEL SPANDRELS. 1/8” DIAMOND TREAD PLATES ON 1” x 3/16” GRATING AT 1 -1/4” oc. LANDING AND TREADS. CHANNELS ARE ANCHORD TO BUILDING SUPPORTING THE 2ND AND 3RD FLOOR LANDINGS. 1-1/2” O.D. STEEL PIPE RAILING ATTACHED TO 1/2”x 1/2” BAR BALUSTERS AT 6”oc WITH 1/2”x 1” BARS TOP AND BOTTOM STICH WELDED TO CHANNELS.

OBSERVATIONS:
1) POOR CONDITION.
2) PAINT DETERIORATION & RUST WAS OBSERVED THROUGHOUT STRUCTURE.
3) ORGANIC GROWTH WAS OBSERVED THROUGHOUT STRUCTURE.
4) DETERIORATION AND/OR RUST AT THE TOP & BOTTOM BARS OF BALUSTERS AT SEVERAL LEVELS.
5) STRINGER DETERIORATION AND/OR RUST AT TREADS AND LANDINGS OBSERVED THROUGHOUT STRUCTURE.
6) DIAMOND TREAD PLATE DETERIORATION AND/OR RUST AT LANDING AND TREADS OBSERVED THROUGHOUT STRUCTURE.
7) ANGLE DETERIORATION AND/OR RUST AT LANDINGS OBSERVED THROUGHOUT STRUCTURE.
8) BASE OF NORTH SUPPORT COLUMN BELOW GRADE.

MAINTENANCE & REPAIRS:
1) CLEAN OFF ALL ORGANIC GROWTH AND REMOVE TREE FROM 3RD FLOOR LANDING
2) AT AREAS OF DETERIORATED PAINT & RUST, PREP STEEL AND PRIME & PAINT WITH 2 COATS OF A ZINC RICH EXTERIOR PAINT.
3) FOR DETERIORATED AND/OR RUSTED CHANNELS, DIAMOND TREAD PLATES, ANGLES AND TOP & BOTTOM BARS OF BALUSTERS, PREP STEEL AND PRIME & PAINT WITH 2 COATS OF A ZINC RICH EXTERIOR PAINT. REPAIR OR REPLACE WITH SIMILAR IF MORE THAN 30% OF STEEL MATERIAL IS LOST.
4) LOWER GRADE TO AT LEAST 2” BELOW COLUMN BASE.
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PHOTO 49 - TREE GROWING BETWEEN Landing AND BRICK WALL AT 3rd FLOOR.

PHOTO 50 - CHANNEL DETERIORATION, ORGANIC GROWTH

PHOTO 51 – PAINT DETERIORATION, RUST AT STRINGERS

PHOTO 52 – DETERIORATED ANGLES AT LANDING TYPICAL.

BUILDING: 200 CHURCH STREET – EAST STAIR
ADDRESS: 200 CHURCH STREET
DATE: 2-29-2016
SHEET NO. 7-3
| PHOTO 53 – PAINT DETERIORATION, RUST AT LANDINGS | PHOTO 54 – STRINGER DETERIORATION AT TREADS |
| PHOTO 55 – DIAMOND TREAD PLATE DETERIORATION | PHOTO 56 – STRINGER DETERIORATION AT LANDING |

**BUILDING:**
200 CHURCH STREET – EAST STAIR

**ADDRESS:**
200 CHURCH STREET

**DATE:**
2-29-2016

**SHEET NO.**
7-4
PHOTO 58 – PAINT DETERIORATION, RUST AT TREAD

PHOTO 57 – ANGLE DETERIORATION, DELAMINATION

PHOTO 58 – COLUMN BELOW GRADE

BUILDING:
200 CHURCH STREET – EAST STAIR

ADDRESS:
200 CHURCH STREET

DATE:
2-29-2016

SHEET NO.
7-5
MATERIALS:
STEEL – PAINTED GREY

STAIR DESCRIPTION:
EXTERIOR EGRESS ON THE WEST SIDE OF THE BUILDING ACCESSING THE 2ND AND 3RD FLOORS WITH (3) INTERMEDIATE LANDINGS.

STRUCTURAL SYSTEM:
3 LEVEL PLATFORM. C10x STEEL INTERIOR CHANNEL STRINGERS SUPPORTED BY (2) 6x6 SQUARE STEEL TUBES. C6x ATTACHED TO 6x6 COLUMNS CANTILEVER EACH SIDE OF COLUMN TO SUPPORT C10x STEEL EXTERIOR CHANNEL STRINGERS WITH C10x STEEL CHANNEL SPANDRELS. 1/8” DIAMOND TREAD PLATES ON 1” x 3/16” GRATING AT 1 -1/4” oc. LANDING AND TREADS. CHANNELS ARE ANCHORD TO BUILDING SUPPORTING THE 2ND AND 3RD FLOOR LANDINGS. 1-1/2” O.D. STEEL PIPE RAILING ATTACHED TO 1/2”x 1/2” BAR BALUSTERS AT 6”oc WITH 1/2”x 1” BARS TOP AND BOTTOM STICH WELDED TO CHANNELS.

OBSERVATIONS:
1) POOR CONDITION.
2) PAINT DETERIORATION & RUST WAS OBSERVED THROUGHOUT STRUCTURE.
3) ORGANIC GROWTH WAS OBSERVED THROUGHOUT STRUCTURE.
4) DETERIORATION AND/OR RUST AT THE TOP & BOTTOM BARS OF BALUSTERS AT SEVERAL LEVELS.
5) STRINGER DETERIORATION AND/OR RUST AT TREADS AND LANDINGS OBSERVED THROUGHOUT STRUCTURE.
6) DIAMOND TREAD PLATE DETERIORATION AND/OR RUST AT LANDING AND TREADS OBSERVED THROUGHOUT STRUCTURE.
7) ANGLE DETERIORATION AND/OR RUST AT LANDINGS OBSERVED THROUGHOUT STRUCTURE.
8) BASE OF NORTH SUPPORT COLUMN AT GRADE.

MAINTENANCE & REPAIRS:
1) CLEAN OFF ALL ORGANIC GROWTH.
2) AT AREAS OF DETERIORATED PAINT & RUST, PREP STEEL AND PRIME & PAINT WITH 2 COATS OF A ZINC RICH EXTERIOR PAINT.
3) FOR DETERIORATED AND/OR RUSTED CHANNELS, DIAMOND TREAD PLATES, ANGLES AND TOP & BOTTOM BARS OF BALUSTERS, PREP STEEL AND PRIME & PAINT WITH 2 COATS OF A ZINC RICH EXTERIOR PAINT. REPAIR OR REPLACE WITH SIMILAR IF MORE THAN 30% OF STEEL MATERIAL IS LOST.
4) LOWER GRADE TO AT LEAST 2” BELOW COLUMN BASE.
PHOTO 60 – PAINT DETERIORATION, RUST AT TREADS

PHOTO 61 – DETERIORATED ANGLES AT LANDING TYPICAL.

PHOTO 62 – PAINT DETERIORATION, RUST AT TREAD ANGLES.

PHOTO 63 – PAINT DETERIORATION, RUST AT RAILINGS, STRINGERS & LANDINGS.

BUILDING: 200 CHURCH STREET – WEST STAIR
ADDRESS: 200 CHURCH STREET
DATE: 2-29-2016
SHEET NO. 8-3
PHOTO 64 – STRINGER DETERIORATION AT TREADS

PHOTO 65 – PAINT DETERIORATION, RUST AT TREADS AND STRINGERS.

PHOTO 66 – COLUMN AT GRADE.